

ANO's
1967

RESTRICTED

ANO's 1-10/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
3rd January, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

1—Issue of Navy Orders—1966

The last navy order issued for 1966 was No. 703.

(CEO (GS) 47/8/7)

Section 2

PERSONNEL

UNCLASSIFIED

2—Medals, Decorations, Honours—General Service Medal 1962—Conditions of Award for Service in Operations in Sabah, Sarawak and Brunei from 24th December, 1962 to 11th August, 1966

Further to Navy Order 327 of 1966 an additional list of HMA ships with the period of qualifying service for the General Service Medal, 1962, with clasp "Borneo" is given in the annex to this order.

2. Advice has now been received that the terminal date for the award of the General Service Medal with Clasp "Borneo" is 11th August, 1966.

ANNEX

Ship	Period	Days
CURLEW	29th June, 1966 to 19th July, 1966 ..	21
GULL	5th April, 1966 to 17th April, 1966 .. 4th June, 1966 to 27th June, 1966 ..	13 24
HAWK	1st April, 1966 to 22nd April, 1966 .. 12th June, 1966 to 29th June, 1966 ..	22 18
PARRAMATTA ..	5th August, 1966 to 7th August, 1966 ..	3
SNIPE	25th June, 1966 to 25th July, 1966 ..	31
VAMPIRE	18th June, 1966 to 13th July, 1966 ..	26

(HPB 38/201/14)

(Navy Order 327 of 1966)

UNCLASSIFIED

3—Prize—1966 Intake of Supplementary List Midshipmen (Seaman)

The Naval Board are pleased to announce that the "United Services Institution of Victoria Prize" has been awarded to—

Midshipman (SL) R. J. WHITE, RAN.

(HPB 38/6/31)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

4—Alteration and Addition Item—HMAS MELBOURNE

The following Alteration and Addition Item is approved to be carried out in HMAS MELBOURNE—

Class List Item No. 198 (Ex TDL "NMBI")

(a) *Item:* To provide LP air scum removal system in catapult retardation water tank.

(b) Full weight compensation is required for the increase in weight of 200-lbs.

(CNTS 1213/52/684)

UNCLASSIFIED

5—Ammunition—Cartridges, Power—Aircraft Cartridges—Engine Starter Electric No. 8 Marks 1/2—Age Limit

(DCI (RN) 1289/1966)

Item 369079 Cartridges Electric Engine Starter No. 8 Marks 1/2.

Information Cartridges filled in 1965 and 1966 in the United Kingdom were manufactured from re-furnished cases and were not anodised. These cartridges are subject to a provisional shelf-life of twelve months only, from the date of filling. Store reference numbers allocated to these two years of filling were 36907923 and 36907924.

Action Any stocks of these cartridges held of other than Australian filling by HMA ships or services, on reaching the 12 month age limit, should be returned to the nearest armament depot for special examination. Replacement cartridges should be demanded in lieu.

RAN armament depots .. Separate instructions will be issued in Circular Letter (Air) No. 284.

(DAS 727/58/142)

UNCLASSIFIED

6—Ammunition—Pyrotechnics—Thunderflashes (Large) Mark N2—Defective

(DCI (RN) 1095/1966)

Authorities concerned .. All HMA ships and shore establishments.

Items affected 39307411 Thunderflashes (large) Mark N2 packed with strikers.
39307412 Thunderflashes (large) Mark N2 without strikers.

Information (a) RN armament depots have reported that during examination of Thunderflashes (large) Mark N2, quantities varying from 1 per cent. to 6 per cent. of stocks of a wide range of lot numbers were found with filling composition seeping from the small gap between the long case and the short case of the store. The thunderflashes were still in the packaging as received from Trade.

(b) This defect is considered to be due to the shrinkage, on ageing, of the cement joining the long and short cases.

(c) Although this defect is not considered to present a hazard to safety, it is undesirable to have loose Composition SR 801 in the packages. It has, therefore, been decided that all "leaking" thunderflashes shall be withdrawn from service.

Action to be taken .. (a) HMA ships and shore establishments—Thunderflashes (large) Mark N2 held are to be returned to an RAN armament depot at the first opportunity, and replacements which will have been examined and confirmed to be free from leaking, demanded in lieu. The packages containing the replacement thunderflashes will be clearly stencilled "EXD CL(P) No. 141 DATE".

(b) RAN armament depots—Separate instructions have been issued in CL(P) No. 141.

Precautions to be taken .. No special precautions are necessary when un-examined thunderflashes are being returned to RAN armament depot. They should, however, be handled with all possible care, and dropping, jolting and bumping of the packages avoided as far as possible.

(DAS 728/58/147)

UNCLASSIFIED

7—Eutectic Welding Kit—Introduction and Allowance

Following successful trials of Eutectic Welding materials it has been decided to introduce Eutectic Welding Kits into general service in ships and establishments.

2. The scale of allowances is as indicated in Appendixes A and B.

3. If not already held, initial issue of kits in accordance with Appendix B will be made without demand by SNSO, Sydney. Subsequently, ships and establishments are to raise demands as necessary to replenish individual items of the kits up to the allowances in Appendix A.

4. The Eutectic kits are for use with existing electric and gas welding equipment, but basic instruction on technique and use of the materials is necessary. Accordingly, personnel initially selected to operate these kits are to undergo a three days Operator's Course given in either Sydney or Melbourne by Eutectic (Australia) Pty. Ltd. Ships and establishments are to arrange these courses through their appropriate Administrative Authority.

5. Personnel who have undergone a course of instruction as in Paragraph 4 are subsequently to instruct other personnel in the use of the kits during the normal course of their duties. It is envisaged that, in due course, general experience in the use of Eutectic materials will have been gained by sufficient personnel and that arrangements for further courses will not be necessary.

6. The following ships are to reduce their holdings of existing welding rods by an amount of weight equivalent to that of the Eutectic Kit—

DDG's, Darings, and Type 12 DE's (in commission).

APPENDIX A
STOCK OF RODS AND FLUX PER KIT

Defence Stock Number	Material	Type	Size	D of Q	Quantity	Remarks
3439-66-019-6340	Alutin 51	Solder AL. SN Alloy	1-in.	lbs.	2	
3439-66-023-2951	Eutecrod 1020 FC	Solder Ag Alloy	3/8-in.	lbs.	1	
3439-66-021-5562	Eutecrod 21	Rod Welding	1-in.	lbs.	5	
3439-66-021-5563	Eutecrod 21	Rod Welding	3/8-in.	lbs.	2	
3439-66-021-5564	Eutecrod 21	Rod Welding	1-in.	lbs.	2	
3439-66-021-5565	Eutecrod 157	Rod Welding	3/8-in.	lbs.	2	
3439-66-021-5566	Eutecrod 157	Rod Welding	1-in.	lbs.	2	
3439-66-018-0647	Eutecrod 190	Rod Welding	1-in.	lbs.	2	
3439-66-021-5568	Eutecrod 196	Rod Welding	1-in.	lbs.	5	
3439-66-021-5571	Eutecrod 1902	Rod Welding	1-in.	lbs.	2	
3439-66-025-9257	Eutecrod 9	Rod Welding	3/8-in.	lbs.	2	
3439-66-021-5582	Eutecrod 185 FC	Rod Welding	1-in.	lbs.	2	
3439-66-021-5574	Eutecrod 185 FC	Rod Welding	3/8-in.	lbs.	5	
3439-66-021-5577	Eutector 21	Flux Welding	8-oz. Jar	No.	5	
3439-66-021-5578	Eutector 157	Flux Welding	8-oz. Jar	No.	1	
3439-66-021-6343	Eutector 190	Flux Welding	8-oz. Jar	No.	1	
3439-66-021-5579	Eutector 196	Flux Welding	8-oz. Jar	No.	1	
3439-66-021-5580	Eutector 1902	Flux Welding	8-oz. Jar	No.	1	
3439-66-025-9258	Eutector 9	Flux Welding	8-oz. Jar	No.	1	
3439-66-025-9259	Eutector 51	Flux Welding	8-oz. Jar	No.	1	

In lieu of Eutecrod 6005 3/8-in.

Wt. 4-lbs.

Wt. 12-oz.

Wt. 12-oz.

Wt. 12-oz.

Wt. 12-oz.

Wt. 12-oz.

Total Weight 421-lbs.

APPENDIX B
ALLOWANCE OF EUTECTIC WELDING KITS

Ship	Denomination of Quantity	Allowance	Remarks
MELBOURNE ..	Set as per Appendix A ..	2	{ 1 already supplied 1 for air purpose
DDG's ..	Set as per Appendix A ..	1	
Destroyers ..	Set as per Appendix A ..	1	
Frigates ..	Set as per Appendix A ..	1	
SYDNEY ..	Set as per Appendix A ..	1	
EMS ..	Set as per Appendix A ..	4	{ 1 for ship 3 for maintenance of ships in SM periods
SUPPLY ..	Set as per Appendix A ..	1	
MORESBY ..	Set as per Appendix A ..	1	Already supplied
<i>Shore Establishments for Maintenance of Attached Craft</i>			
PLATYPUS ..	Set as per Appendix A ..	2	
TARANGAU ..	Set as per Appendix A ..	1	
WATERHEN ..	Set as per Appendix A ..	1	
<i>Shore Establishments for Instructional Purposes</i>			
NIRIMBA ..	Set as per Appendix A ..	1	Already supplied
ALBATROSS ..	Set as per Appendix A ..	1	Already supplied
CERBERUS ..	Set as per Appendix A ..	1	
<i>Fleet Maintenance Party for Emergency Use of Ships</i>			
KUTTABUL ..	Set as per Appendix A ..	1	
RAN Air Workshops, Randwick, NSW		1	Already supplied

(DMED 401/1/73)

UNCLASSIFIED

**8—Naval Stores—Identification and Reclassification—
Class/Group 0461**

Case, Map, Class/Group 0461 Catalogue No. L72224 which has been accounted for as a permanent item has been re-identified and re-classified as follows—

NATO Supply Classification	Catalogue No.	Description	D of Q No.	Acctg. Classification
8460	0461/923-3674	Case, Map GS 2 Mark 1, Army Vocab. W10/VC0251	No.	Consumable

2. HMA ships and establishments holding the above item should adjust records in accordance with ABR 4, Article 1812.

ADSA (M) 514/62/269

UNCLASSIFIED

9—Supply of Milk to HMA Ships and Establishments—Return of Containers

Complaints have been received concerning the non-return of containers in which bulk supplies of milk have been delivered. Contractors have sought financial reimbursement for the value of the items not returned.

2. Arrangements are to be made to ensure that contractors' accountable containers are returned to the supplier prior to the departure of the vessel from the port of delivery.

(D of V 456/51/88)

RESTRICTED

10—4.5-in. Mark 6* Mod. 1 Mountings—Improvement Programme to Modernise to Mark 6* Mod. 3

A programme to improve the efficiency of operation and maintenance of 4.5-in. Mark 6* Mod. 1 Mountings in Type 12 DE's has been approved for implementation on receipt of modification parts due for delivery in the near future.

2. There are four main improvements to be embodied in the mountings and in view of the extent and nature of the work involved the work should be programmed to be undertaken and completed during successive refit periods.

3. The necessary improvement parts are to be demanded as kits from Weapon Equipment and Naval Store Depots as required.

4. The following alteration and addition items have been approved for Type 12 DE's—

(a) *Class List Item 277—Improved Filtration Arrangements—*

- (i) To fit British filters at various points in the training, elevating and hand maintenance systems.
- (ii) To fit British filters as a by-pass link in general service pump system (fixed and revolving structure).
- (iii) To fit British filters in the filling lines (main tanks and servo).
- (iv) To fit self-sealing connections at salient points of general service system to enable a portable filter to be temporarily connected for cleaning runs (fixed and revolving structure).

The arrangements are to be fitted in accordance with Schedule DWE 7884.

(b) *Class List Item 276—Hydraulic Interlock—*

- (i) To remove the existing plunger brackets from the control valves of shell and cartridge hoists.
- (ii) To fit the new mechanical and hydraulic interlock plunger bracket with associated pipes and fittings and re-connect existing mechanical operating gear.
- (iii) To fit a sintered filter in the controlled pressure line of the hydraulic interlock.

The arrangements are to be fitted in accordance with Schedule DWE 7883.

22369/66.—2

(c) *Class List Item 290—New Design Training Gear Box—*

- (i) To remove existing training gear box and associated fittings.
- (ii) To fit new gear box support housing.
- (iii) To fit re-designed training gear box.
- (iv) To fit associated tacho-generator support brackets.

Installation to be in accordance with Schedule DWE 7903.

(d) *Class List Item 291—Modification of RP 40/41 System—*

- (i) Hydraulic bleed across "A" ends.
- (ii) Modification to oil servo units to provide improved characteristics.
- (iii) Replacement of control units by control brackets and VSG "A" end linkages modified to reduce backlash.
Tilt centring mag slip in lieu of dither motor.
- (iv) Addition of a new gear box for rack re-setter and tacho-generator drive.
- (v) Motor re-setter drives (evaluation).
- (vi) New tacho-generator drive with tacho-generator unit AP 11098 A.
- (vii) Electrical changes required for the tilt-centring relays, divided re-set and feed-back mixing network.

Modifications to be in accordance with Schedule DWE 7905.

5. DWE schedules for the above Improvement Programme items will be issued to Williamstown Dockyard in due course.

(DWE 737/259/26)

ANO's 11-24/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
19th January, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

11—Naval Agent—Cairns

Due to the retirement of the Naval Agent at Cairns from the Cairns Harbour Board, it has been necessary to make alternative arrangements for the performance of the duties of Naval Agent at this port.

2. The Sub-Collector of Customs has now been appointed Naval Agent at Cairns. Requests for services should be addressed to NOIC Queensland.

(AS (NS) 2/204)

UNCLASSIFIED

12—Training and Courses in UK—Personal Records and Security Certificate

Naval Personnel

When personnel are appointed or posted to the United Kingdom for course training, action is to be taken by the ship or establishment in which the member is serving to ensure that—

- (a) Medical and service documents are forwarded to reach the Australian Naval Representative, United Kingdom, at least 3 days prior to the commencement of the course or commencement of training; and
- (b) Pay account cards are forwarded to reach ANRUK by the time the officer or sailor arrives in the UK. Where a member travels by air his pay account card should be handed to him prior to his departure from Australia and kept readily available either on his person or in hand baggage carried.

2. In addition a new security clearance pro-forma, Form AS 630, is being introduced, the details of which are appended below. This form is to be completed in respect of all trainees before their departure for the United Kingdom.

3. Part 1 of Form AS 630 is to be completed by the ship or establishment and two copies, together with two photographs, size not more than 1½-in. x 1½-in. (or 4 cms. square), are to be forwarded to the Secretary, Department of the Navy, Canberra, ACT, as soon as possible after receipt of the relevant Posting List or Posting Note.

4. Part 2 of Form AS 630 includes security undertakings relating to the safeguarding of classified information received by the trainee in the course of training overseas. Before these undertakings are signed by a representative of the Secretary, Department of the Navy, it is necessary to ensure that the trainee is aware of his obligations to safeguard the information. Therefore, the trainee is to be briefed by the ship or establishment security officer and is to sign the statement on the back of Form AS 630.

5. Civil Personnel—Form AS 630 is also to be used in the case of civil personnel proceeding to the United Kingdom to attend military courses. The form is to be completed by the appropriate administrative authority and the trainee and two copies forwarded to the Secretary, Department of the Navy, Canberra, ACT.

6. Form AS 630 is available on demand from SNSO, Sydney. Demands should be restricted to twelve months requirements.

CONFIDENTIAL (when Part 2 completed)
SECURITY CERTIFICATE

(Two copies of this form must be completed in typescript and must be accompanied by two photographs (approximately 1½ inches x 1½ inches—4 centimetres square) of the candidate.)

PART 1

HMAS.....

No. The Secretary,
Department of the Navy,
CANBERRA, ACT

		OTHER NAMES	
11	Naval A.		
12	Training		
		SERVICE NO.	NATIONALITY
			SERVICE
13			

1/ CURRENT OR PROPOSED APPOINTMENT

ADDRESS IN UNITED KINGDOM

PASSPORT OR IDENTITY CARD NO.		DATE AND PLACE OF BIRTH
COLOUR OF HAIR	COLOUR OF EYES	HEIGHT

VISIBLE DISTINGUISHING MARKS (IF ANY)

Date

Captain

PART 2

The Australian Naval Representative,
UNITED KINGDOM.

The abovenamed has been selected to attend the following course.....

at.....

from.....to.....

2. Certified that the abovenamed has been cleared in accordance with national security standards, up to the level of inclusive and that the Australian Government is aware of no security objection to his attending the course.

3. The Australian Government undertakes not to release any information to the abovenamed during his course of training to a third country without prior approval from the British Government.

4. The Australian Government undertakes to give proper security protection to any classified information disclosed to the abovenamed during his course of training.

Date

Secretary

CONFIDENTIAL (when Part 2 completed)
(Printed on back of Form AS 630)

"I am aware that the classified information which may be imparted to me during the course of instruction referred to on the front of this form must be protected by me both during and after the completion of the course.

In particular I realise that the information is imparted to me as an Australian citizen and that I must not disclose it to a national of any other country without the permission of my Commanding Officer or Head of Branch. I also realise that the information will be disclosed to me only because I have a 'need to know' and that I must not disclose it to other persons or other members of the RAN without the permission of my superior officer."

Date

Signed

(DNI 1617/1/47)

Section 2
PERSONNEL

UNCLASSIFIED

13—Naval Emergency Reserve and Citizen Naval Forces—Sailors'
Posting Note

It has been decided to include in Posting Notes, Reserve and CNF sailors posted for training or annual Naval service. Notices will be included as an appendix to the PNF Posting Note and will be prepared by the Director of Naval Reserves.

2. Sailors posted to fill a vacancy in the establishment of the PNF will continue to be shown in the PNF Section.

3. It is usual to inform RANER sailors of the intention of posting them for their annual Naval service up to three months in advance of the date of posting, but unless special circumstances dictate, they will not be shown on Reserve PN's until about 4 weeks before they are expected to report for service. In this way, it is hoped to keep amendments to a minimum.

4. The Reserve PN will be in the following form—

Name and Personal Number	Rank	From	To	Date (To Join By)	Remarks
<i>Examples</i>					
(a) SMITH, J. B. H38347	LSQMG	SHORE	ANZAC 13 days	15/9/66	FA327

Explanation

This sailor is a member of the RANER (Personal Number Prefix "H"). He will join HMAS ANZAC on 15th September, 1966, for 13 days Naval service. Finance Authority 327 applies. Director of Naval Reserves will provide joining instructions and travel warrants.

(b) JONES, L. M. A100427	ORDWTR	WATSON	SYDNEY 13 days	15/9/66	—
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Explanation

This sailor is a member of the RANR (Personal Number Prefix "A"). His Reserve Training Establishment is HMAS WATSON. He will join HMAS SYDNEY for 13 days training on 15th September, 1966. HMAS WATSON provides joining instructions and travel warrants.

(c) BLACK, I. B. F28471	POSN	SHORE	KUTTABUL 7 days	22/10/66	FA4297
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Explanation

This sailor is a member of the RAFR (Personal Number Prefix "F"). He will join HMAS KUTTABUL for 7 days Naval service on 22nd October, 1966. Finance Authority 4297 applies. The Director of Naval Reserves provides joining instructions and travel warrants.

5. The following instructions regarding payment and discharge procedure are to be followed—

(a) *Pay*—Unless otherwise informed, payment is to be made to RANER and RAFR sailors at the "on promotion" rate on the last day of service. Marriage, separation, hard lying, living-out-away-from-home and diving allowances are to be paid where applicable. Good Conduct Badge and Incremental pay is not to be paid. Income Tax is not to be charged. Where applicable, the finance authority noted in the "Remarks" column is to be quoted. Payment to RANR sailors will continue to be made in accordance with Naval Reserve Regulations and Instructions.

(b) *Travel and Discharge*—Travel warrants and joining instructions will be issued by the Director of Naval Reserves to members of the RANER and RAFR posted for normal annual service and by the Reserve Training Establishments for RANR sailors. It is important to ensure that reserve personnel borne for annual Naval service or training are not discharged before the last day of service. Those required to travel long distances may be discharged on the last day as necessary to meet travel arrangements. Other sailors are not to be discharged before noon on that day. Failure to complete the full 13 days service may result in the member forfeiting his annual bounty or efficiency grant.

(c) *Reports*—

RANER—Forms ER 4, AS 537 and a certified copy of Form AS 22 is to be forwarded to the Director of Naval Reserves as early as practicable after completion of training.

RAFR—Forms AB 103, AS 537 and a certified copy of Form AS 22 is to be forwarded to Director of Naval Reserves as early as practicable after completion of training.

RANR—Form RANR 10 and RANR Form 3D to the Reserve Training Establishments as soon as practicable after completion of training.

(d) *Uniform*—As soon as convenient after joining, RANER and RAFR sailors' uniform kits are to be inspected. Issues and/or replacements may be made in accordance with current instructions. Issues are not to be made to RANR sailors unless authorised by the Reserve Training Establishment or the Director of Naval Reserves.

(e) *Medical*—Medical history documents of RANER and RAFR members are held by the Medical Director-General. They will be forwarded a few days before the member is expected to join. MHD's of RANR personnel are to be forwarded by their Reserve Training Establishments. These documents are to be returned to the appropriate authority as soon as members are discharged from training.

If a member's medical fitness is in doubt he is to be discharged to shore immediately, Navy Office being informed by signal.

A RANER or RAFR member found to be medically unfit for immediate service is to be informed that he is responsible for restoring himself to the required standard and for providing the Director of Naval Reserves, within one month, with a doctor's certificate to the effect that any necessary treatment has been taken and that he is now medically fit.

Medical treatment and urgent dental treatment may be provided for members during Naval service.

(f) *Certificate of Service*—Sailors are to bring their Certificates of Service on reporting for service. Pages 2 and 4 are to be completed and the Certificate returned to the sailor. Next-of-kin details are to be checked and updated.

(D of R 333/8/279)

UNCLASSIFIED

14—Professional Test for Engineer Sub-Lieutenant (ME) and (MECH)

The following amendment is to be made to ABR 5016, Volume 2—

Appendix 5A

PART V—ENGINEER SUB-LIEUTENANT (ME) AND (MECH)
(ARTICLE 0505 (7))

PROFESSIONAL TEST

1. *When Held*—Annually.

2. *Applications*—

(i) To Navy Office through Captain: for closing dates *see* current navy orders.

(ii) Captains will advise Navy Office, for Examiners' information, whether particular candidates currently employed in submarine posting or training or in surface ships with diesel main propulsion, require to take normal (ME) or (MECH) Part One Paper or alternate papers of diesel or submarine emphasis as shown in Clause 4 (c) and (d).

3. **Question Papers**—Question papers are set by the Flag Officer Commanding Her Majesty's Australian Fleet, and forwarded by Navy Office to ships and establishments concerned. Worked papers are to be forwarded to Flag Officer Commanding, Her Majesty's Australian Fleet, Fleet Headquarters, Garden Island.

4. **Method of Test**—The professional test will be divided into three papers of equal value, each containing six questions and each of three hours duration as follows—

Paper I—Practical

- (a) For (ME) category—contains the general service requirements for Engineer Sub-Lieutenant (ME) and is the normal paper.
- (b) For (MECH)—covering the operation of machinery and systems and maintenance of the type in which experienced.
- (c) Variant of papers (a) or (b) based on types of machinery and equipment experienced in submarines.
- (d) Variant of paper (a) or (b) based on types of machinery and equipment experienced in surface ships whose main propulsion is diesel.

Paper 2—Administration and Organisation of Engineroom Department

Common to all candidates.

Paper 3—Duties and Responsibilities

Common to all candidates.

5. **Syllabus**—

Paper I—Practical

1. The design, operation and maintenance of main and auxiliary propulsion equipment and of outside machinery and systems including as applicable—
 - Preparing for sea.
 - Standing by.
 - Shutting down.
 - Emergency procedures.
 - Notice for steam.
 - Harbour auxiliary.
 - Economical steaming.
 - Safety devices incorporated in Naval machinery.
 - Control systems.
2. Trials of machinery—
 - Full power.
 - Partial repair.
 - Endurance.
 - Pre-refit.
 - Post-refit.
3. Fuelling.
4. Pumping and flooding and transfer arrangements.
5. Preservation of stability.
6. Materials and lubricants in general use.
7. Periodical tests and examination of machinery.
8. Heeling trial. Procedure, precautions, limitations.

Paper II—Administration and Organisation of ER Department

1. Organisation and routine.
2. Duties of senior sailors.

3. Divisional and training organisation.
4. Planned maintenance system.
5. Promotion structure.
6. Books and records. Reports and returns.
7. Letter writing and drafting of signals.
8. Defect reporting procedure and defect lists.
9. A and A procedure.
10. Stores and spare gear procedure including fuels.
11. Refitting and maintenance organisation.
12. Damage control organisation.

Paper III—Duties and Responsibilities

1. EO of small ship.
2. Taking over as EO small ship.
3. Departmental officers ER BR outsiders DB DC.
4. EOOW.
5. EOOD.
6. Divisional Officer.
7. Preparing for refit.
8. Preparing for docking, and precautions before entering in and before leaving dock.
9. Responsibility for prevention of accident and fire, both in commission and in refit.
10. Preparing to pay off into reserve.

6. **Pass Marks**—Candidates will be required to obtain a raw score of 60 per cent. in each paper in order to pass. Failure in one paper will constitute total failure. Marks are to be adjusted in accordance with ABR 27, Article 0405.

7. The above instructions will be incorporated in an amendment to Regulations and Instructions in due course.

(DOA 311/201/97)

UNCLASSIFIED

15—Raincoat, Man's, Proofed Nylon

A raincoat, proofed nylon, has been adopted in the RAN for issue on repayment in place of the plastic raincoat. Plastic raincoats, Catalogue Nos. 22151-4, will be available on repayment until stocks are exhausted.

2. Supplies of the proofed nylon raincoat are available on demand from Royal Edward Victualling Yard and will be accounted for in Clothing Group Class II under the following headings—

- Catalogue No. 22160—Raincoat, Man's, Proofed Nylon, Size 3
- Catalogue No. 22162—Raincoat, Man's, Proofed Nylon, Size 5
- Catalogue No. 22164—Raincoat, Man's, Proofed Nylon, Size 7
- Catalogue No. 22166—Raincoat, Man's, Proofed Nylon, Size 9

3. The issuing price will be \$7.90 each.

(D of V 917/90/170)

UNCLASSIFIED

16—SD (AV) Officers—Training and Employment

The training and employment of SD (AV) Officers have been reviewed and are promulgated for information and necessary action.

2. The aim of the review has been to create, as far as possible, uniformity within the branch and to expand the avenues of employment for SD (AV) Officers.

3. Uniformity within the branch is desirable because of the need—

- (a) to share, as far as possible, the requirements for sea and shore service;
- (b) to permit all members of the branch to compete equally for—
 - (i) promotion;
 - (ii) charge postings.

4. Duties of SD (AV) Officers

It is intended that SD (AV) Officers should be capable of undertaking the following duties—

- (a) FAPDO NAS Nowra
- (b) SESO NAS Nowra, HMAS MELBOURNE and Staff of DAMR
- (c) HCO HMAS MELBOURNE
- (d) ACRO HMAS MELBOURNE
- (e) Armament Stores Officer NAS Nowra and HMAS MELBOURNE
- (f) Training Officer NAS Nowra
- (g) Assistant FDO HMAS MELBOURNE
- (h) Air Traffic Control Officer NAS Nowra and HMAS MELBOURNE
- (i) Little (d) HMAS MELBOURNE (in conjunction with ATC duties) and in Fleet Units
- (j) OIC PTA Unit NAS Nowra
- (k) Photographic Officer NAS Nowra and HMAS MELBOURNE

5. Training of SD (AV)'s

It is intended that all future SD (AV) Officers will do post qualifying courses in the UK, to permit them to undertake the following duties—

- (a) FAPDO.
- (b) SESO.
- (c) HCO.
- (d) ACRO.
- (e) Armament Stores Officer.
- (f) Assistant Flight Deck Officer.

6. SD (AV) Officers who are already qualified in certain categories will be posted for training in Australia to permit them to undertake the following duties on an "as required" basis to fill existing or anticipated vacancies—

- (a) FAPDO.
- (b) SESO.
- (c) Armament Stores Officer.
- (d) Assistant Flight Deck Officer.
- (e) PTA Officer.

- (f) Air Traffic Control Officer.
- (g) Little (d).
- (h) Photographic Officer.

7. Sailors may be promoted to SD (AV) Officers from the following Fleet Air Arm categories in accordance with current regulations—

- (a) Aircraft Handler.
- (b) Air Mechanic A/E or W; ~~and Aircraft Mechanician (AE) (W)~~ N.O. 95/67
- (c) Safety Equipment.
- (d) Meteorological.
- (e) Photographic.
- (f) Aircrewman—on non-flying duties.

8. The promotion of aircrewmen on active flying duties will be dealt with separately. RI concerning Promotion and Training of SD (AV) Officers will be amended in due course.

(DOA 311/4/150)

Section 3**OPERATIONAL AND TRAINING**

UNCLASSIFIED

17—Sailors—Training, Employment and Promotion of Aircraft Mechanicians Weapons

Following the approval for the introduction of modern aircraft with complex weapons systems into the RAN, the Naval Board have decided to recommence the training of Aircraft Mechanicians Weapons (MECHW).

Selection and Training

2. The selection and training of prospective MECHW will follow broadly the pattern laid down for the training of MECHAE. On completion of the course for promotion to LAMW, selected candidates will be given an aptitude test to determine their suitability for MECHW training. Those showing the necessary aptitude will be given accelerated selection for the POAMW course.

3. On completion of the POAMW course those sailors, who by progress and results, indicate their ability to attain the required standard of academic knowledge, craft, skill and technical efficiency required of an MECHW will be eligible to undertake the course.

Employment

4. MECHW's will be employed in squadron, workshops and training billets where their diagnostic ability and skill of hand is required to achieve the speedy maintenance and repair of all ordnance in Naval aircraft (including ejection seats).

Promotion

5. The promotion of MECHW's is governed by ABR 10/64, Articles 1606, 1607, 1608 and 1609.

6. It is expected that the ratio of CMECHW to MECHW will be about 1 : 2.

(DMT 303/221/83)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

18—Alteration and Addition Item—HMAS MELBOURNE

The following Alteration and Addition Item is approved to be carried out in HMAS MELBOURNE—

Class List Item No. 214 (Ex TDL "ER")

- (a) *Item:*
- (i) 7E spare armature store to be converted to rack and bin stowage.
 - (ii) 5S port spare armature store to be converted to rack and bin stowage.
- (b) A record of weights added and removed is to be forwarded.
- (c) *Reference:* HMAS MELBOURNE's Form AS 1182 TDL "ER" dated 27th May, 1966, forwarded under cover of FOCAF Memorandum dated 14th June, 1966.

(CNTS 1213/52/655)

UNCLASSIFIED

19—Alteration and Addition Item—HMAS SYDNEY

The following Alteration and Addition Item is approved to be carried out in HMAS SYDNEY—

Class List Item No. 337 (Ex TDL "AD")

- (a) *Item:* To improve the ventilation arrangements to the following magazines by fitting a six inch diameter spigot, with a lockable screwed cap, in the deckhead of the magazines, to which a portable ventilation hose may be attached—
- 7B, 6C, 6D, 6E, 7F, 6N and 6P.
- (b) No weight compensation is required, but weight variation is to be reported on completion of the item.
- (c) *Reference:* HMAS SYDNEY's Form AS 1182 TDL "AD" dated 28th July, 1966, forwarded under cover of FOCAF Memorandum AF 1212/55/9 dated 8th August, 1966.

(CNTS 1213/53/173)

UNCLASSIFIED

20—Census of Internal Combustion Engines

In order that records held at Navy Office may be brought up to date, it is requested that arrangements be made for a census to be undertaken as at 31st December, 1966, of all marine internal combustion engines, fitted or held on board or ashore, and the information furnished in duplication in the form shown in the appendix to this order, to reach Navy Office not later than 31st January, 1967.

APPENDIX

INTERNAL COMBUSTION ENGINES

Director of Machinery and Spares,
Navy Office,
Melbourne.

Reference—Navy Order 20 of 1967.

The following are details of all internal combustion engines fitted or held on board or ashore at 31st December, 1966—

<i>Make of Engine</i>	<i>Type</i>	<i>Serial No.</i>	<i>Where Fitted</i>
(DMS 1104/51/807)			

UNCLASSIFIED

21—Daring Class Destroyers—Boiler Water Levels

Gauge glass indicator bodies on the boilers in Daring Class destroyers are to be painted as follows—

- (a) *Double and Single Sight Glasses*—a WHITE band, the top of which is at a level corresponding to the centre line of the steam drum, and the bottom of which is at a level 2 inches below the centre line of the steam drum.
 - (b) *LOW Level Glass*—a RED band extending from the bottom of the indicator body to a level 6 inches below the centre line of the steam drum.
2. When lighting up with the stop valve OPEN, the steam drum water level is to be approximately 10½ inches of water in the HIGH level glass before the first sprayer is lit. During lighting up the level is to be maintained above the top of the white band.
 3. When lighting up with the stop valve SHUT, the water level is to be higher than the bottom of the white band before the first sprayer is lit. During lighting up the water level is to be maintained in sight in the HIGH level glass by blowing down as necessary, but not to a level below the top of the white band.
 4. During lighting up, when the steam drum pressure is between 40 and 50 p.s.i.g., the steam and water passages of both the single and double sight gauge glasses are to be proved clear by blowing through in accordance with BR 3003, Chapter 5, Page 82,
 5. Blowing through of each gauge glass in accordance with BR 3003, Chapter 5 Page 82, is also to be carried out on the following occasions—
 - (a) When the boiler pressure reaches 500 p.s.i.g., when lighting up with the stop valve open.
 - (b) Immediately before connecting the boiler, when lighting up with the stop valve shut.
 - (c) At least once each watch when steaming.
 - (d) On any other occasion considered necessary by the officer or sailor in charge of the steaming boiler.
 6. Under steaming conditions the following water levels are to be maintained—
 - (a) *Auxiliary or Low Power Steaming*—above the top of the white band.
 - (b) *Full Power Steaming*—the full power water level, as shown on Navy Office Drawing No. D1472 and as indicated in the Foster Wheeler Handbook, Navy Office Drawing No. 8013, is 2 inches below the centre line of the steam drum, i.e., at the level of the bottom of the white band.

7. Dangerous Conditions—

- (a) During full power steaming the water level must not fall below the top of the red band as an extremely dangerous condition would arise due to uncovering of waterwall tubes, which could lead to breakdown in circulation.
- (b) During auxiliary or low power steaming a similar condition can arise, due to the rake of the boilers, if the water level falls below the bottom of the white band.

8. Under all conditions of steaming, if the water level falls to a dangerous level, all sprayers are to be shut off until the level is restored. It is emphasised that ALL sprayers must be shut off; merely reducing the number of sprayers afloat will decrease the circulation head and, in fact, will increase the danger of circulation breakdown.

(DMED 1215/51/36)

UNCLASSIFIED

22—Naval Stores (Accounting)—Registration of Vouchers

Due to the increased complexity and volume of clerical work in the Supply Branch, efforts are continually being made to reduce the effort involved.

2. One such means introduced in 1960 was the elimination of voucher registers and the introduction of the procedure detailed in ABR 4, Article 1814 (3), it being considered that the clerical effort involved in the maintenance of registers far outweighed any advantages which might be achieved by their maintenance.

3. It has been reported that registers of vouchers are being maintained in many HMA ships and commissioned establishments contrary to the provisions of ABR 4, Article 1814 (3).

4. The provisions of Article 1814 are intended to apply to all stores vouchers, and registers, where maintained, are to be discontinued forthwith and the provisions of the article implemented.

(ADSA (M) 400/57/84)

UNCLASSIFIED

23—OQF 40/60 Barrels—Fitting of Flame Guard

It has been noted during recent inspections of OQF 40/60 that damage to flame guard securing holes is becoming frequent.

2. A barrel was rendered unserviceable recently due to a flame guard screw hole having been drilled and re-tapped and during drilling the drill penetrated to such an extent that the bottom of the screw hole bulged into the barrel.

3. The utmost care is to be exercised when removing flame guards from guns.

(DAS 704/52/110)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY UNCLASSIFIED

24—Stores Accounting—Form SX 100—Internal Demand, Issue and Return Voucher for Stores—Introduction

Form SX 100, Internal Demand, Issue and Return Voucher for Stores, is being introduced in the RAN to replace the existing Forms AS 156, AS 156Y, AS 1091 and AS 1091Y. The form should not be used for Victualling Stores at this stage.

2. Form SX 100, which will be supplied in books of 150 copies with all copies perforated, is to be used in the same manner as the existing forms, except as follows—

- (a) Spare books of Form SX 100 are to be held by the Supply Officer and before they are taken into use are to be—
- (i) prenumbered in duplicate or triplicate, as necessary, and
 - (ii) the copy number block in the top right hand corner of the form completed by insertion of the Figures 1 and 2, or 1, 2 and 3 as appropriate, to indicate copy numbers.
- (b) Issues and returns are to be dealt with in the one book of forms.
- (c) When used in lieu of existing Forms AS 156 or AS 1091 the copies are to be dealt with as follows—

Copy No. 1 . . . To be presented at the appropriate store or store office. On completion of transaction and posting of accounts, they are to be filed in numerical sequence, regardless of whether they cover issues or returns.

Copy No. 2 . . . To be presented at the appropriate store or store office with Copy No. 1. On completion of transaction, to be returned to the demanding/returning officer and filed in numerical sequence.

Note—If preferred, Copies No. 2 may be retained in the book for convenience.

(d) When used in lieu of existing Forms AS 156Y or AS 1091Y (see ABR 4, Articles 1907, 1908 and 1909) the copies are to be dealt with as detailed in ABR 4, Article 1909, except that, if preferred, Copy No. 3 may be removed from the book, and filed in numerical sequence.

3. The new form is to be brought into use as follows—

(a) New ships and commissioned establishments—on commissioning.

(b) Existing ships and commissioned establishments—

(i) DDG's—immediately the forms become available.

(ii) Other ships and commissioned establishments—When existing RAN stocks of Forms AS 156, AS 156Y, AS 1091 or AS 1091Y are consumed. In this regard, ships and commissioned establishments are to continue to demand the appropriate existing forms until the new form is supplied in lieu, at which time the new form is to be taken into use as an issue or return voucher, as appropriate, but not as both, e.g., if supplied in lieu of Form AS 1091Y, Form AS 156Y would continue to be demanded until stocks are exhausted.

4. ABR 4 will be amended.

(ADSA (M) 464/54/673)





AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
20th January, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

25—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During November, 1966

The magazines, pamphlets and amendments to publications, etc., contained in the appendix to this order have been distributed to ships and services during November, 1966.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of "P" Series Amendments referred to in the appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BOOKS, MAGAZINES AND PAMPHLETS

<i>Publication</i>	<i>Date</i>
HMSO List of Government Publications	May, 1966
Electrical Design News Vol. 11 No. 9	August, 1966
Joint Services Recognition Journal Vol. 21 No. 5	May, 1966
The "Communicator" Vol. 18 No. 2	Summer, 1966
Flight	11.8.1966
Flight	18.8.1966
Flight	25.8.1966
Flight	1.9.1966
Flight	8.9.1966
Flight	15.9.1966
Flight	22.9.1966
Aeroplane	18.8.1966
Aeroplane	25.8.1966
Aeroplane	1.9.1966
Aeroplane	8.9.1966
Aeroplane	15.9.1966
Aeroplane	22.9.1966
Aeroplane	29.9.1966
Electronics Vol. 39 No. 20	3.10.1966

MISCELLANEOUS PUBLICATIONS

<i>Publication</i>	<i>Date</i>
NAMAN Vol. 21 N2612-N2618	30.9.1966

BR AMENDMENTS

<i>BR No.</i>	<i>Amendment No.</i>
BR 8001	1. Issue No. 10 Minor Amendment Sheet No. 5 Pages 1/1
	2. Issue No. 11 Section 21 Pages 1/1

BR AMENDMENTS—continued

<i>BR No.</i>	<i>Amendment No.</i>
BR 2103	Change No. 22
BR 810	RAN Supplement Amendment No. 2 to Numeric Group 0721-31
ABR 4	Amendment No. 26
BR 2501	Change No. 1
BR 862	Change No. 4
BR 268 (4)	Change No. 1

ESTABLISHMENTS LISTS AND AMENDMENTS

<i>List No.</i>	<i>Amendment No.</i>
E 529 dated 12.3.1962	Amendment No. 7
E 829 dated 20.11.1962	Amendment No. 1
E 899 dated 3.12.1962	Amendment No. 9
E 1155 dated 30.10.1956	Amendment No. 12
E 1158 dated 11.8.1956	Amendment No. 4
E 1172 dated 1.2.1964	Amendment Nos. 2 and 3
E 1189 dated 25.3.1964	Amendments Nos. 3 and 4
E 1191 dated 11.9.1960	Amendment No. 6
E 1201 dated 15.5.1962	Amendment No. 4
E 1205 dated 14.1.1962	Amendment No. 3
E 1214 dated 31.1.1962	Amendment Nos. 7 and 8
E 1274 dated 5.4.1962	Amendment Nos. 1-8
E 1276 dated 21.6.1963	Amendment Nos. 1 and 2
E 1250 dated 15.3.1962	Amendment Nos. 1, 2, 3 and 4
E 1278 dated 20.7.1960	Amendment Nos. 1-5
E 1293 dated 21.6.1961	Amendment No. 9-13

AMENDMENTS TO AIR PUBLICATIONS

<i>AP No.</i>	<i>AL or Leaflet</i>
101A-0100-16	AL 32
101A-1104 (Formerly AP 4204)	AL 13
101S-03001-1	AL 12
109B-0101-5	AL 21
109B-0102-1	AIL 1/66
	AIL 2/66
	AIL 3/66
116B-0304-1	AL 33
116D-0102-1A (2nd Edition)	AL 13
116G-0601-6	AIL (RAN) 4
880A Vol. 1.	AL 35
1086 Book 4 Part 3 (2nd Edition)	AL 121
1086 Book 5 (2nd Edition)	AL 127
1086 Book 12 Part 1 (2nd Edition)	AL 281, 282, 283, 284, 285, 286, 287 and 288
1086 Book 13 (2nd Edition)	AL 230, 231 and 232
1181 Vol. 2	Leaflet (AL 208)-B 162
1182 (Naval) Vol. 2	Leaflet (AL 220)-B 1 (Canc.)
	Leaflet (AL 216)-C 67
	Leaflet (AL 217)-C 68

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
1182C Vol. 4 Part 6	AL 59, 60, 61, 62 and 63
1182E (N) Vol. 1	AIL 1/66
1234C Vol. 3	AL 19 and 20
1275A Vol. 1 Section 24	AL 134
1275A Vol. 2	Leaflet (AL 237)-Z 13
1275A Vol. 3 Part 1 (Naval) Book 1	AL 16
1275A Vol. 3 Part 1 (Naval) Book 2	AL 15
1275B Vol. 1 Section 16	AL 63
1275G Vol. 1 Part 2 (2nd Edition)	AIL 1/66
	AL 34
1275T Vol. 3 Part 1 (Naval)	AL 7
1355 Vol. 2 Part 1	Leaflet (AL 178)-Z 125 (Alt. 2)
	Leaflet (AL 179)-Z 126 (Alt. 1)
	Leaflet (AL 180)-Z 127
1355C Vol. 4 Part 6 (2nd Edition)	AL 1
1355F Vol. 1 (2nd Edition)	AL 5
1464D Vol. 1	AL 229
1464G Vol. 1	AL 208
1661B Vol. 1 (2nd Edition)	AIL 1/66
1661C Vol. 1 (2nd Edition)	AIL 1/66
1661F Vol. 1	AL 73, 88, 116, 127, 128, 129, 130, 131, 137, 138, 139, 140, 141, 142, 143, 144, 158, 159, 160 and 161
1664A Vol. 2 Part 3 Book 2 (2nd Edition)	AL 108, 109, 110 and 111
1664E Vols. 1 and 5	AL 39
1803E Vol. 1	AL 180 and 181
1803T Vol. 1 Book 3	AL 29
1803U Vol. 1 Book 3	AL 34
2240A Vol. 1 Book 1	AIL 1/66
2487A and B Vol. 2	Leaflet (AL 17)-B 14
	Leaflet (AL 18)-B 15
	Leaflet (AL 19)-B 16
	Leaflet (AL 20)-B 17
2531B Vol. 2	Leaflet (AL 61)-B 45 (Alt. 1)
	Leaflet (AL 60)-B 48 (Alt. 1)
2531J Vol. 2	Leaflet (AL 216)-B 68 (Alt. 1 incorp.)
	Leaflet (AL 221)-B 138 (Alt. 1)
	Leaflet (AL 211)-B 143
2531J Vol. 3 Part 1 (N) Book 1 (2nd Edition)	AL 4
2534N Vol. 2	(AL 138)-B 55 (Alt. 1 incorp.)
2887N Vol. 3 Part 1 (Naval) Book 2	AL 1 and 2
2890SC Vol. 2	Leaflet (AL 20)-B 14
2892F Vol. 2	Leaflet (AL 134)-B 109
2912K Vol. 1	AL 47
3278 Book 2	AL 3
3302 Part 3 (2nd Edition)	AL 4
4222A and B	AL 3
4303C Vol. 1	AL 146 and 147
4303C Vol. 6	AL 49
4340 Vol. 6	AL 65

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
4343X Vol. 1 Book 2	AL 17
4360C Vol. 1	AL 37
4361G (Pilot's Notes)	AL 4
4471A Vol. 1 Part 2 Book 1	AL 187
4601A Vol. 1	AL 62
4685 Vol. 1 Part 2 Section 4	AL 85 and 86
4685 Vol. 3 Part 1 (Naval)	AL 12
4707A Vol. 1	AL 29
4723A Vol. 1 Book 2	AL 88
4736A Vol. 1	AL 46
4758C Vol. 3 Part 1 (with Spine Card)	AL 2
AP (N) 140	AIL 2/66
AP (RAN) 8 Pilot's Notes	AIL (RAN) 29
AP (RAN) 8 Vol. 1 Book 1	AIL (RAN) 17
	AIL (RAN) 18
	AIL (RAN) 19
	AL 66
AP (RAN) 8 Vol. 1 Book 5	AIL (RAN) 1—Leaflet 5/29
	AL 16, 17 and 20
AP (RAN) 8 Vol. 2	AIL (RAN) 117
	AIL (RAN) 119
	AIL (RAN) 120
	AL 28
AP (RAN) 8 Vol. 3 Part 1	AIL (RAN) 2
	AIL (RAN) 3
	AIL (RAN) 4
AP (RAN) 8 Vol. 3 Part 2	AL 59, 60, 62 and 63
AP (RAN) 8 Vol. 5 Book 1 F/S	AL 15
AP (RAN) 8 Vol. 5 Book 2 F/S	AL 52, 53 and 54
AP (RAN) 8 Vol. 6 Part 2	AIL (RAN) 54
	AL 52
AP (RAN) 8 Vol. 6 Part 3	AIL (RAN) 51
	AIL (RAN) 52
	AIL (RAN) 53
	AIL (RAN) 54
AP (RAN) 9 Vol. 1	AIL (RAN) 8
	AIL (RAN) 9
	AL 6, 7 and 8
AP (RAN) 9 Vol. 3 Part 1	Transmittal Letter No. 6 (Covering AL's)
AP (RAN) 9 Vol. 6 Part 4A	AIL (RAN) 5
AP (RAN) 10 P/N	AIL (RAN) 35
AP (RAN) 10 Vol. 1 Book 1	AIL (RAN) 10
	AL 30
AP (RAN) 10 Vol. 1 Book 2	AL 35
AP (RAN) 10 Vol. 2 Book 1	AL 15
AP (RAN) 10 Vol. 2 Book 2	AL 6
AP (RAN) 10 Vol. 5 Book 1 F/S	AL 2
AP (RAN) 10 Vol. 6 Parts 1-4	AL 14
AP (RAN) 19 Vol. 1 Book 2	AIL (RAN) 3
	AIL (RAN) 4
	AIL (RAN) 5

AMENDMENTS TO AIR PUBLICATIONS—*continued*

<i>AP No.</i>	<i>AL or Leaflet</i>
AP (RAN) 19 Vol. 2 Book 1 ..	.. AL 7
AP (RAN) 19 Vol. 5 Book 1 F/S ..	.. AL 16
AP (RAN) 19 Vol. 5 F/S Book 2 ..	.. AL 34
AP (RAN) 19 Vol. 6 ..	.. AIL (RAN) 2
AP (RAN) 26 Vol. 5 Book 2 F/S ..	.. AL 23
AP (RAN) 39 Vol. 1 ..	.. AL 1
AP (RAN) 39 Vol. 3 ..	.. AL 1
AMRA 15 Booklet "A" Section ..	.. AL 12
Air Clues ..	.. No. 12 (Vol. 20) (September, 1966)
	.. No. 1 (Vol. 21) (October, 1966)
Air Pictorial ..	.. October, 1966
Civil Nimbus 500 Series Service Bulletins ..	.. Transmittal Letter No. 47 (September, 1966)
Collins Overhaul Manual (520-5970003-301113) ..	.. Revision No. 7 (18.9.66)
DCA Aeronautical Information Publication ..	.. AL 56 Cat. A and C (1.10.66)
	.. AL 59
	.. RAC/2 (AL 77)
	.. RAC/2 (AL 78)
DCA Aviation Safety Digest ..	.. No. 47 (September, 1966)
DCA Notams ..	.. 12/66 (1.11.66)
ICAO Bulletins ..	.. August, 1966
Rolls Royce TSD Pub. 594 ..	.. Transmittal Letter No. 114 (September, 1966)
Standardisation Design Memoranda ..	.. Leaflet No. 12 Section 6 (Issue 4)
	.. Leaflet No. 16 Section 2 (Issue 3)
	.. Leaflet No. 112 (AL 2 AL 1 incorp.) (Issue 3)
	.. IS 52 (Issue 4)
	.. IS 256 (Issue 4)
AAP No. 2 Table of Contents ..	.. Sub AL 44 (AL 30693)
	.. Sub AL 45 (AL 31217)
AAP No. 2 GCC 4010 (5th Edition) ..	.. Sub AL 6 (AL 31796)
AAP No. 2 GCC 5826 ..	.. Erratum to Sub AL 6 (AL 31221)
AAP No. 2 GCC 5905 (7th Edition) ..	.. Sub AL 9 (AL 31443)
AAP No. 2 GCC 5910 (5th Edition) ..	.. Erratum to Sub AL 6 (AL 29355)
AAP No. 2 GCC 5915 (6th Edition) ..	.. Erratum Sub AL 26 (AL 23980)
AAP No. 2 GCC 5940 (7th Edition) ..	.. Sub AL 3 (AL 39386)
AAP No. 2 GCC 5995 (8th Edition) ..	.. Sub AL 4 (AL 30701)
AAP 121 (Revised January, 1962) ..	.. AL 32
AAP 717.01 Vol. 3 Part 1 Section 1 ..	.. Sub AL 7 (AL 31460)
Chapters 1 and 2 (1st Edition)	
AAP 720.21 ..	.. AL 1
AAP 721.65 Vol. 2 Part 1 ..	.. AL 45
AAP 751.52 Vols. 1 and 6 Book 1 ..	.. AL 24

(DNS 465/57/614)



ANO's 26-35/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
25th January, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

S. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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SECTION 2—PERSONNEL	
27	Junior Sailors—Attendance at Organised Youth Camps.
28	Medical, Hospital and Dental Treatment for Families of United Kingdom Personnel in Australia.
SECTION 4—EQUIPMENT, STORES AND SERVICING	
29	Alteration and Addition Item—Type 12 DE's.
30	Catalogue No. 0721/220-2334—Lubricating Oil OEP 69—Supplies at Fremantle.
31	Naval Stores (General)—Revised Procedures in HMA Ships and Commissioned Establishments.
32	Scarf, Neckwear, Black—Introduction of New Pattern.
33	Stores (General)—Reports of Stocktaking—Variation in Procedures.
34	Test Equipment—Ohmmeter, Safety, Battery Powered, N4 Mark 1—Test for Possible Defect.
35	Ventilation—Lifting Eyeplates for Axial Flow Fans—AC Ships.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

26—Ceremonial—National Anniversaries and Festivals of Australia, Other Commonwealth Countries, United States of America and Asian Countries

The appendix to this order is a table of important anniversaries celebrated in other Commonwealth countries, the United States of America and Asian countries in which HMA ships present may be requested to participate.

2. The dates on which HMA ships and Naval establishments are to dress ship, on Australian national anniversaries, are given in RI Article 1239. In addition, ceremonial is observed on Anzac Day and Remembrance Day. Instructions for these days are given in RI Articles 1238, 1355 and 1354.

3. The information in the Appendix is given as a general rule only. Inquiry as to the correct procedure should be made beforehand.

4. Amendments or additions, which are considered necessary as a result of local experience, should be communicated to the Naval Board.

5. Navy Order 534 of 1965 is hereby cancelled.

APPENDIX

NATIONAL ANNIVERSARIES AND FESTIVALS OF OTHER COMMONWEALTH COUNTRIES, THE UNITED STATES OF AMERICA AND ASIAN COUNTRIES

Date	Country	Anniversary	Practice of Country Where Known		Remarks
			Ships Dressed Overall	Fire Salute	
1st January ..	Japan .. South Vietnam	New Year's Day New Year	Yes —	— —	See Note 3
4th January ..	Burma ..	Independence Day	Yes	Yes (31 guns)	
15th January ..	Japan ..	Adults' Day	—	—	See Note 3
22nd January ..	New Zealand	Local Anniversary Day in Wellington	Yes*	—	* At discretion of Senior Officer of RNZN present
26th January ..	India ..	Republic Day	Yes	Yes† (31 guns at noon)	† Ships outside India fire 21 guns at noon
29th January ..	New Zealand	Local Anniversary Day in Auckland	Yes*	—	* At discretion of Senior Officer of RNZN present
30th January ..	India ..	Indian Martyrs' Day	—	—	See Note 2
4th February ..	Ceylon ..	Independence Commemoration Day	Yes	Yes	
12th February	United States of America	Lincoln's Birthday	Yes*	(21 guns)	See Note 8. * Masthead flags only
22nd February	United States of America	Washington's Birthday	Yes	Yes (21 guns at noon)	See Notes 8 and 9
1st March ..	Korea ..	(Samil Day.) Commemorating public demand for independence from Japanese rule made by Korean leaders	—	—	See Note 4
4th-6th March	Cambodia ..	King's Birthday	Yes	Yes (21 guns at noon)	
21st March ..	Japan ..	Vernal Equinox	—	—	See Note 3
23rd March ..	New Zealand	Local Anniversary Day in Otago ..	Yes*	—	* At discretion of Senior Officer of RNZN present
	Pakistan ..	Pakistan Day	Yes	Yes† (31 guns)	† Only in Karachi
27th March ..	Burma ..	Resistance of Arzani Day ..	Yes	—	
6th April ..	United States of America	Army Day	Yes*	—	See Note 8. * Masthead flags only
13th-15th April	Cambodia ..	New Year	—	—	

Date	Country	Anniversary	Practice of Country Where Known		Remarks
			Ships Dressed Overall	Fire Salute	
25th April ..	New Zealand	Anzac Day Anniversary of the New Zealand Army Corps landing at Gallipoli (1915)	No	No	Observed by a public holiday and ceremonies throughout New Zealand, and by New Zealand Government Missions and Armed Forces Overseas. Ceremonies are held annually in London, Edinburgh and Hong Kong, and other places outside New Zealand
29th April ..	Japan ..	Emperor's Birthday	Yes	—	See Note 3
3rd May ..	Japan ..	Constitutional Day	Yes	—	See Note 3
5th May ..	Thailand ..	HM the King's Coronation Day ..	Yes	Yes (21 guns at noon)	See Note 5
5th May ..	Japan ..	Boys' Day	—	—	See Note 3
6th May ..	Cambodia ..	Promulgation of Constitution ..	Yes	—	
First Sunday in May	Canada ..	Battle of Atlantic Sunday ..	—	—	

6

Second Sunday in May	United States of America	Mothers' Day	Yes*	—	* Masthead Flags only
— May ..	Canada ..	Victoria Day	Yes	Yes	See Note 6
Third Saturday in May	United States of America	Armed Forces Day	Yes*	—	* At discretion of Senior USN Officer present
30th May ..	United States of America	Memorial Day	—	Yes (21 minute guns start- ing at noon)	See Note 8
First Wednesday in June	Malaysia ..	The Birthday of HM DYMM Yang di Peruan Agong	Yes	Yes (21 guns at noon)	
12th June ..	Philippines ..	Independence Day	Yes	Yes	
14th June ..	United States of America	Flag Day	Yes*	—	See Note 8. * Masthead flags only
1st July ..	Canada ..	Dominion Day	Yes	—	
4th July ..	United States of America	Independence Day	Yes	Yes at noon	See Note 8
17th July ..	Korea ..	Promulgation of the Constitution ..	—	—	See Note 4
20th July ..	Japan ..	Marine Memorial Day	Yes	—	See Note 3

7

Date	Country	Anniversary	Practice of Country Where Known		Remarks
			Ships Dressed Overall	Fire Salute	
12th August ..	Thailand ..	HM the Queen's Birthday ..	Yes	Yes (21 guns at noon)	See Note 5
14th August ..	Pakistan ..	Independence Day	Yes	Yes† (31 guns)	† Only in Karachi
15th August ..	India ..	Independence Day	Yes	Yes* (31 guns at noon)	* Gun salutes are not fired at ports outside India
15th August ..	Korea ..	Independence Day (Anniversary of Proclamation of the Government of the Republic in 1948)	—	—	See Note 4
17th August ..	Indonesia ..	Proclamation of Independence ..	Yes	Yes	
31st August ..	Malaysia ..	Malaysia Day	Yes	Yes (21 guns at noon)	
First Monday in September	United States of America	Labour Day	—	—	See Note 8

17th September	United States of America	Constitution Day	Yes*	—	See Note 8. * Masthead flags only
26th September	New Zealand	Dominion Day	Yes*	—	* At discretion of Senior Officer of RNZN present
3rd October ..	Korea ..	Kaechun Chul (Birthday of King Tan Koon)	—	—	See Note 4
5th October ..	Indonesia ..	Armed Forces' Day	Yes	—	
10th October ..	Fiji ..	Cession Day	Yes	No.	See Note 7
12th October ..	United States of America	Columbus' Day	Yes*	—	See Note 8. * Masthead flags only
26th October ..	South Vietnam	National Fete of the Republic ..	Yes	Yes	
27th October ..	United States of America	Navy Day	Yes*	—	See Note 8. * Masthead flags only
1st November ..	Vietnam ..	National Day	Yes	—	
3rd November	Japan ..	Cultural Day	Yes	—	See Note 3
6th-8th Novem- ber	Cambodia ..	Water Festival	—	—	
9th November	Cambodia ..	Independence Day	Yes	Yes	
11th November	United States of America	Veterans' Day	Yes*	—	See Note 8. * Masthead flags only
23rd November	Japan ..	Labour Thanksgiving Day ..	—	—	See Note 3

Date	Country	Anniversary	Practice of Country Where Known		Remarks
			Ships Dressed Overall	Fire Salute	
4th Thursday in November	United States of America	Thanksgiving Day	Yes*	—	See Note 8. * Masthead flags only
5th December ..	Thailand ..	HM the King's Birthday	Yes	Yes (21 guns at noon)	See Note 5
10th December	Thailand ..	Constitution Day	Yes	—	See Note 5
16th December	New Zealand	Local Anniversary Day in Canter- bury	Yes*	—	* At discretion of Senior Officer of RNZN present
25th December	Pakistan ..	The Quaid-I-Azam's Birthday (Birth- day of Mr. M. A. Jinnah, The Founder of Pakistan)	Yes	—	
‡	South Vietnam Pakistan ..	Christmas Id-e-Milad-UI-Nabi (Birthday of the Holy Prophet Mohammed)	— Yes	— —	‡ Date variable, depending on ap- pearance of the moon
30th December	Philippines ..	Rizal Day	—	—	
Miscellaneous ..	Burma ..	National Day	Yes †	No	See Note 1

Notes—

- Burma—"National Day" is fixed each year with reference to the Burmese Calendar falling on the 10th Waning of Tazaungmon.
- India—
At 1100 on 30th January all officers and men in IN ships and establishments stand up, wherever they may be, and observe complete silence for two minutes.
At a memorial service to Mahatma Gandhi held at Rajghat an Indian Interservices Guard of Honour will be paraded.
- Japan—Gun salutes are not at present fired by ships of the Maritime Self Defence Force or by Shore Batteries. The problem of firing salutes is at present under review.
- Korea—No precise regulations for the observance of these occasions by the Korean Navy have yet been laid down. It would probably be appropriate to dress ship overall, but prior consultation with local authorities would be desirable.
- Thailand—Ships are to dress with masthead flags when they are under way in the vicinity of an anchorage on occasions when ships in port dress overall.
- Canada—Celebrated on the Monday preceding the 25th May.
- Fiji—It is appropriate on this day to dress ship when in any Fijian port.
- USA—When any anniversaries occur on a Sunday, the ceremonies are postponed until the following day.
- Panama—The main Panamanian anniversaries are 3rd and 28th November. These holidays are not observed in the Canal Zone. Ships in port or in transit should not therefore dress ship.
The Canal Zone authorities observe United States national holidays, e.g., 22nd February, 30th May and 4th July. Naval vessels normally dress overall but gun salutes are fired only from shore batteries.

(DTWP 12/201/22)

(Navy Order 534 of 1965)

Section 2 PERSONNEL

UNCLASSIFIED

27—Junior Sailors—Attendance at Organised Youth Camps

Approval is given for organised groups of junior sailors, aged less than 18 years, from sea-going ships located in Sydney, to use the recreational facilities at Narrabeen Lakes National Fitness Camp, and for their victualling and accommodation charges to be accepted as a charge against the Department, at a rate not exceeding three dollars (\$3.00) per day. The transport of these groups to the camp, and from the camp on completion, by service transport is also approved.

2. The camp has several sports ovals and a well-equipped field house (gymnasium). During the summer months the following additional facilities become available—

- (a) Barbecues in the evening.
- (b) Swimming.
- (c) Water skiing.

3. Bookings should be made well in advance (Tel. 98 6710) as vacancies are scarce during school holidays. Smaller numbers than 100 can only be accepted after a block booking has been made by a particular organisation and providing the maximum number of billets has not been exceeded. By two or more ships co-ordinating visits little difficulty is envisaged in making block bookings in excess of 100 sailors. Each ship should provide its own supervisor.

4. The procedure for obtaining coaching assistance, etc., from the Rothmans National Sports Foundation is shown in Navy Order 233 of 1965 and this assistance should be sought when a visit to the National Fitness Camp is arranged.

5. Accounting instructions in respect of this scheme are—

- (a) Form AS 542—Route Order and Travelling Expense Claim—to be raised for approval of Captain and authorisation for members' attendance at Camp as detailed on a supporting list.
- (b) Victualling allowance is not to be credited to Ship's Mess in respect of sailors absent at the camp and accordingly these sailors are to be checked to detached duty for the period of absence at the camp.
- (c) Payment to camp authorities to be effected by raising Form AS 22 and supported by account from Camp Authorities and Form AS 542 as a charge to Division 668/0/01 Travelling and Subsistence—Departmental dissection 1B.
- (d) Members do not qualify for payment of Travelling Allowance or Living Out Allowance while attending camps under this scheme.

6. This policy will be reviewed when facilities at the recreational centre at Randwick become available.

(HPB 138/6/76)

(Navy Order 233 of 1965)

UNCLASSIFIED

28—Medical, Hospital and Dental Treatment for Families of United Kingdom Personnel in Australia

Navy Order 458 of 1965 is to be amended as follows—

Paragraph 23—

Delete Sub-paragraphs (a), (b) and (c) and insert in lieu—

- (a) Royal Navy Exchange and United Kingdom Personnel Division 687/1/01/1(I) Other Administrations, Recoverable Expenditure—Medical and Dental.
- (b) Royal Navy Loan and 4th Submarine Division Personnel Division 668/0/07(2) Medical and Dental.

(MDG 156/51/23)

(Navy Order 458 of 1965)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

29—Alteration and Addition Item—Type 12 DE's

The following Alteration and Addition Item is approved to be carried out in Type 12 DE's subject to the lifting of the Moratorium.

Class List Item No. 325 (Ex TDL "SK").

1. Item—To provide additional power sockets for—

- (a) Floor Polishing Machines.
- (b) Adding Machines—
 - (i) Fit four (4) in number AP 18151 switch sockets in the passageway on No. 2 Deck.
 - (ii) Replace existing switch sockets AP 18037 with switch sockets AP 18151 in area 3J.
 - (iii) Fit amenity sockets AP 207660 (Aust.) in the Ship's Office.

2. Compensating weight of 80-lbs. at Deck 2 level (or equivalent) is required before item is undertaken.

3. References—

- (i) HMAS STUART's Form AS 1182 TDL "SK" dated 27th May, 1964, forwarded under cover of FOICEA Memorandum N20/20/294F dated 8th June, 1964.
- (ii) Navy Office Memorandum 1224/73/110 dated 1st December, 1964.
- (iii) HMAS STUART's Memorandum 11/6/36 of 27th January, 1965, under cover of FOICEA Memorandum N 20/20/294 dated 17th June, 1965.
- (iv) Navy Office Memorandum 1224/73/110 dated 25th February, 1966.

(CNTS 1224/73/110)

UNCLASSIFIED

30—Catalogue No. 0721/220-2334—Lubricating Oil OEP 69—Supplies at Fremantle

To date, supplies of Lubricating Oil OEP 69 have been unobtainable at short notice, at Fremantle. However, arrangements have now been made for the contractor to maintain a stock of 700 gallons for immediate supply, if required, to RAN ships visiting that port.

2. Demands should be placed on the Officer-in-Charge, Naval Stores, Fremantle, in the normal manner.

(DNS 512/91/62)

UNCLASSIFIED

31—Naval Stores (General)—Revised Procedures in HMA Ships and Commissioned Establishments

Navy Order 631 of 1966 is to be amended as follows—

(a) Paragraph 2B (2) Line 2—

Before the words " MOD (Navy) Class Groups " insert " several ".

(b) Paragraph 2B (2) Line 3—

Before the words " various ranges of equipment " delete " several ".

(ADSA (M) 501/55/84)

(Navy Order 631 of 1966)

UNCLASSIFIED

32—Scarf, Neckwear, Black—Introduction of New Pattern

A pre-folded and sewn scarf, neckwear, black, is being introduced to replace the existing pattern worn by sailors in Class II uniform.

2. The new item will be issued when stocks of the current pattern scarf have been exhausted and will be accounted for in Clothing Group II under the following heading—

Catalogue No. 22345, scarf, neckwear, black, NP.

3. The issuing price will be \$0.29.

(D of V 917/83/78)

UNCLASSIFIED

33—Stores (General)—Reports of Stocktaking—Variations in Procedures

The following variations in stocktaking procedures are promulgated with a view to reducing the work load in HMA ships and commissioned establishments during the mid year and end of year leave periods—

(a) Quarterly returns of Reports of Stocktaking, Forms AS 148 (outside) and associated discrepancy Reports, Forms AS 148 (inside) for all categories of stores are to be forwarded to appropriate Directorates at Navy Office in future in respect of periods ending—

(i) 28th February.

(ii) 31st May.

(iii) 31st August.

(iv) 30th November.

Returns are to be dispatched so as to reach Navy Office by 15th of the following month. RAN DDG's are not required to render Form AS 148 (outside) in respect to Naval Stores but accumulated Forms AS 148 (inside) are to be forwarded each quarter under covering letter to reach Navy Office on the due dates mentioned above.

(b) The Annual Statement showing the progress of stocktaking as at 31st December (see ABR 4, Article 1604A) is no longer required. In the case of Victualing Stores, Forms AS 1053 showing the progress of stocktaking as at 30th November are to be forwarded so as to reach the Director of Victualing by 15th December of each year. These will be returned to the ship or establishment concerned after perusal.

2. ABR 4 and ABR 93 will be amended accordingly.

(C of S 400/57/62)

UNCLASSIFIED

34—Test Equipment—Ohmmeter, Safety, Battery Powered, N4 Mark 1—Test for Possible Defect

(DCI (RN) 1224/1966)

Ships, establishments and authorities concerned All ships fitted with Seacat Guided Weapon System. Establishments and all holders of Safety Ohmmeters N4 Mark 1.

Items concerned .. 861667 Ohmmeter Safety, battery powered, N4 Mark 1 (NATO No. 6625-99-901-8429).

Information .. (a) The manufacturer has advised that a defect has been discovered in a commercial version of the N4 Mark 1 Ohmmeter which could be present in instruments supplied for service use.

(b) The presence of this defect does not in any way create a hazard. It is not discernible on visual inspection.

Action to be taken .. (a) The following tests are to be applied to all existing ohmmeters, N4 Mark 1—

(i) Carry out battery test as stated on the instruction label situated on the rear face of the ohmmeter.

(ii) Replace 861668 battery if the test is unsatisfactory and repeat the test with the new battery.

(iii) Set the range switch to " Transit Off ".

(iv) Set the range drum to read " 10 " at cursor line.

- (v) Using a Model 8 Avometer on 0-250 micro amp DC range, apply the positive avometer lead prod to pin "B" on the free end of the ohmmeter test lead and the negative lead prod to pin "A" on the free end of the ohmmeter test lead.
 - (vi) Check the Avometer that no reading appears. If a reading occurs the defect is present.
 - (vii) Set the range switch to "1/100th" position and check that the avometer reads 150 micro amps (approx.).
 - (viii) Set the range switch to "Transit Off".
 - (ix) Disconnect avometer and stow safety ohmmeter lead in the pouch provided.
- (b) Ohmmeters found to be defective as a result of this check should be returned to RANAD Sydney quoting this order, and a replacement ohmmeter demanded.

(DAS 740/52/206)

UNCLASSIFIED

35—Ventilation—Lifting Eyeplates for Axial Flow Fans—AC Ships

In order to facilitate the removal of A/AC/Range axial flow fans for maintenance and subsequent replacement, it has been decided to provide portable eyeplates for the positive slinging positions around the fan casing.

2. A/AC/Range axial flow fans fitted in ships having AC supply have four pads welded to the outer casing, equally spaced in a plane through the centre of gravity, each pad having four tapped holes of BSF thread form.

3. Portable eyeplates manufactured in accordance with Navy Order Diagram Issue 1 of 1967 are to be used as necessary for removal and replacement of axial flow fans when carrying out maintenance.

4. Ships concerned are to raise a defect item worded as follows—

To provide four (4) in number portable eyeplates and necessary bolts in accordance with Navy Office Drawing No. 265/1.

(PNA 400/1/234)



ANO's 36-46/67

AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
7th February, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

36—Charges for Radio Telegrams, Radio Telephone Calls, Etc., Originating in HMA Ships

Navy Order 82 of 1966 is to be amended as follows—

Paragraph 4

Delete the first sentence and insert the following in lieu—

“ Words are to be counted in accordance with MBR 8544—Handbook for Radio Operators in the Maritime Mobile Service Part 3 ”.

(DNA 16/51/25)

(Navy Order 82 of 1966)

Section 2

PERSONNEL

UNCLASSIFIED

37—Declaration of Allotments to Assurance Organisations

The current (1962) print of Form AS 63—Allotment Declared or Altered—provides for the number of the policy to be inserted when an allotment for payment of premiums to a Life Assurance Company or Society is declared. However, it is not the practice for a policy number to be issued by a Life Assurance Organisation until the first premium has been paid.

2. The declaration of allotments for the payment of Life Assurance premiums should not be delayed pending receipt of the policy number. Forms AS 63 should be noted that the premiums are in respect of a new policy if such is the case, or that the policy number is not known. Any Life Assurance Organisation pro forma signed by a member as authority for deductions from his pay should be attached to the original copy of Form AS 63. Form AS 63 is to show the full title and correct address of the organisation and is to be signed by the allottor.

3. Allotments to Life Assurance Organisations may be declared at rates which include odd cents provided that the amount is not less than 50 cents per fortnight.

4. Form AS 63 will be amended.

(DNA 271/53/47)

UNCLASSIFIED

38—RAN Relief Trust Fund Committee—Constitution

The RAN Relief Trust Fund Committee consists of the following representatives—

- (a) The Director of Fleet Supply Duties (Chairman).
- (b) The Director of Personal Services.
- (c) One representative of FOCAF.
- (d) One representative of FOICEA.

- (e) One representative of CST HMAS CERBERUS.
- (f) Four representatives from HMA ships (preferably two from HMA Ships MELBOURNE, SYDNEY and SUPPLY, one from DDG's, Destroyers and Frigates and one from HMAS MORESBY, Submarines and smaller ships).
- (g) One representative from establishments in the Sydney Command.
- (h) One representative from RAN Air Station, Nowra.
- (i) One representative from HMAS CERBERUS.

The representatives at (c), (d) and (e) may be officers, but the representatives at (f) to (i) inclusive are to be selected from Chief Petty Officers, Petty Officers and sailors of any branch.

2. The Secretary shall be the officer for the time being acting as Secretary of the Fund.

3. Representation on the committee is on the same basis applying to the RAN Central Canteen Committee and it may be found advantageous to have the same representatives on both committees.

4. The committee meets twice yearly on dates to be arranged. Items for inclusion in the agenda of meetings should be forwarded by administrative authorities to the Secretary, RAN Relief Trust Fund, when called for.

5. The RAN Relief Trust Fund Committee will make recommendations on matters of policy in the use of the Fund within the terms of the Services Trust Fund Act, 1947, which established the Fund.

6. It should be understood clearly that neither individual claims for assistance, nor criticism or comment on applications on which decision has been taken can be discussed by the RAN Relief Trust Fund Committee. All applications for assistance from the Fund are treated as strictly confidential by the agents and trustees, and no information whatever on these matters will be given to the Committee. Those deciding to take advantage of the benefits available from the Fund may do so in complete confidence that their trust will always be safeguarded.

7. This order will be reprinted for posting on notice boards.

8. Navy Order 176 of 1966 is hereby cancelled.

(DFSD 8/52/15)

(Navy Order 176 of 1966)

UNCLASSIFIED

39—Removals Procedure

Certain provisions governing the removals procedures of RAN members have been varied and are as shown in the following paragraphs.

2. Where approval has been given under NPI 231/26 for items of furniture and effects urgently required by the member at the new locality to be sent ahead of the main bulk of furniture, the member may protect himself against loss or damage by arranging an all risk door to door insurance cover.

3. The cost of the insurance cover may be reimbursed, but only where prior approval to the premium has been obtained. Insurance cover on prior dispatched articles, together with the main bulk of the furniture, is not to exceed the maximum indemnity of \$4,000 accepted by the Department.

4. Provision already exists for a member who owns a second motor vehicle to be reimbursed in respect of the removal of this vehicle to the new locality under the same conditions as are applicable to the first vehicle. This provision only applies to a married member and members are requested, wherever possible, that the second motor vehicle be driven to the new locality by a member of the family.

5. Members are reminded that liability for damage caused to electrical and mechanical equipment during removal of household effects will only be accepted by the Department, subject to it being established that such damage is actually due to the removal.

6. Accordingly refrigerators and record players (radiograms) must be prepared for transportation in the following manner—

(a) *Refrigerators*—The motor must be bolted down to prevent movement.

(b) *Record Players*—The Pick-up must be secured to its stand by use of tape or spring clips. Turntables must be tightened down.

7. The member must obtain instructions from the Manufacturer/Agent regarding the preparation for transportation of refrigerators and record players. The member will normally be expected to carry out the specified preparatory work personally.

8. However, where technical implications are involved in preparing any electrical or mechanical appliance (including refrigerators and record players) for removal or subsequently re-connecting such equipment, the services of a technician may be employed and reimbursement of reasonable costs incurred may be claimed.

9. NPIs 231/18, 231/26, 231/29 and 231/33 should be noted pending amendment.

(HPB 252/8/98)

Section 3

~~RESTRICTED~~ OPERATIONAL AND TRAINING ~~UNCLASSIFIED~~

40—Sailors—Naval Artificer Apprentices—Training at Sea

In order to provide billets at sea for training Engine Room Artificer, Systems Artificer and Naval Shipwright Apprentices after three and a half years training in the RANATE it is necessary that some Able and Leading ranks be replaced in complements by Naval Apprentices and Artificers 3rd Class. The Naval Board have decided that the Full Peace Schemes of complements for HMA ships will be amended as shown in the appendix.

2. It is intended that Naval Apprentices up to the maximum numbers as shown in the appendix will be posted to ships to fill Able rank's billets. Navy Order 475 of 1965, Messing of Ships Company, is relevant.

3. After being awarded the Auxiliary Watchkeeping Certificate, Engine Room Artificers 3rd Class, up to the maximum numbers as shown in the appendix, may be borne in the ship, in lieu of Leading ranks.

4. System Artificers, after six months in the ship, in the 3rd Class rank may be borne in lieu of Leading ranks, up to the maximum numbers as shown in the appendix.

5. Pre-commissioning training, as may be considered necessary, will be given to apprentices prior to posting to ships. Navy Order 659 of 1965—HMAS NIRIMBA, the Royal Australian Naval Apprentice Training Establishment is relevant.

	May be		In lieu of		May be		In lieu of		May be		In lieu of		May be		In lieu of	
	E R A A 3	E R A A	L M E	M E	S A P 3	S A A P	L E M P	E M P	S A W 3	S A A W	L E M W R	L E M W R E	L E M W R	E M W R E	S A C 3	S A A C
MELBOURNE..	24	..	24	..	3	4	3	4	1	2	1	2	..	2	..	..
SYDNEY ..	9	..	..	..	20	..	..	..	2	..	..	..	..	..	2	..
PERTH ..	1	..	1	..	2	..	2	..	2	..	2	..	..	..	..	..
HOBART ..	2	..	2	..	2	..	2	..	2	..	2	..	..	..	..	..
VENDETTA ..	..	6	6	..	1	2	1	2	..	1	..	1	..	..	..	..
VAMPIRE ..	..	6	6	..	1	2	1	2	..	1	..	1	..	..	..	..
DUCHESS ..	..	6	6	..	1	2	1	2	..	1	..	1	..	..	..	..
SUPPLY ..	2	6	2	6	1	2	1	2	..	1	..	1	..	..	..	..
DERWENT ..	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1
STUART ..	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1
YARRA ..	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1
PARRAMATTA ..	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1
MORESBY ..	3	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
	65	48	30	74	15	17	15	17	9	10	4	9	4	10	5	8

APPENDIX B

Ship	Present Full Peace Complement	Max. No. of 3rd Class or NAA May Be Borne in Lieu		
MELBOURNE ..	LME	29	6 ERA3 (AWC) Gained in Ship	
	ME	118	24 ERA3 or ERAA	
	LEMP	12	3 SAP3	
	EMP	30	4 SAAP or SAP3	
	LEMWR	2	Nil	
	EMWR	6	1 SAW3 or SAAW	
	LEMWE	2	Nil	
	EMWE	3	2—SAAW or SAW3	
	LEMC	3	1 SAC3	
	EMC	7	2 SAAC or SAC3	
	SYDNEY ..	LME	17	4 ERA3 (AWC) Gained in Ship
		ME	82	9 ERA3 or ERAA
		LEMP	5	20 SAP3. Additional may be carried
		EMP	19	
LEMWR		1		
EMWR		1		
LEMWE		1	2 SAW3 or SAAW. Additional may be carried	
EMWE		2		
LEMC		1	3 SAC3 or SAAC. Additional may be carried	
EMC		2		
DARINGS ..	LME	14	3 ERA3 (AWC) Gained in Ship	
	ME	33	6 ERA3 or ERAA	
	LEMP	3	1 SAP3	
	EMP	8	2 SAAP or SAP3	
	LEMWR	2	Nil	
	EMWR	3	1 SAAW or SAW3	
	LEMWE	1	Nil	
	EMWE	1	Nil	
	LEMC	1	Nil	
	EMC	1	1 SAAC or SAC3	
Type 12's ..	LME	7	1 ERA3 (AWC) Gained in Ship	
	ME	24	6 ERA3 or ERAA	
	LEMP	3	1 SAP3	
	EMP	4	1 SAAP or SAP3	
	LEMWR	3	1 SAW3	
	EMWR	4	1 SAAW or SAW3	
	LEMWE	3	1 SAW3	
	EMWE	3	1 SAAW or SAW3	
	LEMC	2	1 SAC3	
	EMC	1	1 SAAC or SAC3	
DDGs ..	ME	41	2 ERA3 or ERAA	
	LEMP	5	1 SAP3	
	EMP	7	1 SAAP or SAP3	
	LEMWR	4	Nil	
	EMWR	6	Nil	
	LEMWE	6	Nil	

APPENDIX B—continued

Ships	Present		Max. No. of 3rd Class or NAA May Be Borne in Lieu
	Full Peace Complement		
DDGs—continued	EMWE	— 7	1 SAAW or SAW3
	LEMC	— 1	Nil
	EMC	— 3	Nil
SUPPLY	LME	— 7	1 ERA3 (AWC) Gained in Ship
	ME	— 30	6 ERA3 or ERAA
	LEMP	— 2	1 SAP3
	EMP	— 6	2 SAAP or SAP3
	LEMWR	— 0	Nil
	EMWR	— 0	Nil
	LEMWE	— 1	Nil
	EMWE	— 0	Nil
	LEMC	— 0	Nil
	EMC	— 1	1 SAAC or SAC3
ANZAC	LME	— 6	1 ERA3 (AWC) Gained in Ship
	ME	— 26	3 ERA3 or ERAA
	LEMP	— 1	Nil
	EMP	— 5	1 SAAP or SAP3
	LEMWR	— 1	Nil
	EMWR	— 0	Nil
	LEMWE	— 0	Nil
	EMWE	— 2	Nil
	LEMC	— 0	Nil
	EMC	— 2	Nil
MORESBY	LME	— 5	1 ERAD3
	ME	— 13	2 ERAAD or ERAD3
	LEMP	— 3	Nil
	EMP	— 3	1 SAAP or SAP3
	LEMWR	— 0	Nil
	EMWR	— 0	Nil
	LEMWE	— 2	Nil
	EMWE	— 0	Nil
	LEMC	— 1	Nil
	EMC	— 3	1 SAAC or SAC3
QUEENBOROUGH ..	LME	— 7	1 ERA3 (AWC) Gained in Ship
	ME	— 22	8 ERA3 or ERAA
DIAMANTINA ..	ME	— 12	3 ERA3 or ERAA. 3 additional may be carried.
NS3 or NSA			
PERTH	} NS2	..	1—NS3 or NSA
HOBART			
VENDETTA			
VAMPIRE			
DUCHESS			
DERWENT			
STUART			
YARRA			
PARRAMATTA			
ANZAC			

APPENDIX B—continued

SYDNEY .. ..	..	27—in lieu of ORD (VAR) for accommodation purposes and additional to NS complement
MELBOURNE ..	..	4—MEs. May be NS3 or NSA
SUPPLY .. ..	..	1—ME. May be NS3 or NSA
		(DMT 303/221/80)
		(Navy Orders 475 and 659 of 1965)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

41—Alteration and Addition Item—HMAS MELBOURNE

The following Alteration and Addition Item is approved to be carried out in HMAS MELBOURNE.

Class List No. 210 (Ex TDL "NMBG")

- (a) Item: To fit standard crankcase explosion relief valves to the English Electric 400 kW Diesel Generators.
- (b) Full weight compensation is required.
- (c) References: (i) GMGID Memorandum Reference No. DN20/14/440 dated 2nd February, 1966.
(ii) GMGID Memorandum Reference No. DN20/14/440 dated 13th July, 1966.
(iii) Navy Office Letter 1213/52/547 of 18th May, 1966.

(CNTS 1213/52/547)

UNCLASSIFIED

42—Ammunition—Propellant—Landing—Destruction—Reports

Propellant of the following lots is due for withdrawal from service, having reached the age limit—

Propellant List Affected	Type	Nature of Ammunition Etc., Which May Be Involved
RNC 3321 ..	} SC 103	.. Cartridges— QF 4-in. (FA)
RNC 3334 ..		
RNC 3348 ..		
RNC 3358 ..		
MEC 504 ..	SUK/XII	.. Motor rocket A/C 3-in.

2. *Action to be taken by HMA ships and establishments, proof ranges, etc.* Return to the nearest Naval Armament Depot as early as practicable. If unable to comply within 3 months from the date of this order, report specially to DAS for instructions. NM and ER BR 862, Article 1126 refers.

3. *Action to be taken at RAN armament depots* Declare for disposal. Propellant Acceptance List are to be amended.

(DAS 729/51/58)

UNCLASSIFIED

43—Bathythermographs—Winches—Wire Securing Arrangements

(DCI (RN) 1511/1966)

The recent loss of a bathythermograph was attributable to the ineffective securing of the inboard end of the wire to the winch.

2. Ships are to ensure that the inboard end of the wire is rove through the holes in the drum then secured to its own part by four half hitches and a seizing.

3. The securing arrangements are to be examined at intervals of not more than six months.

(DWE 400/1/236)

UNCLASSIFIED

44—Diving—High Pressure Cylinders—Aluminium Alloy Extension of Proof Test and Revised Painting Instructions

(DCI (RN) 1543/1966)

Proof Testing

Experience has proved that the alloys, from which these cylinders are manufactured are not susceptible to stress corrosion failure, nor are they likely to deteriorate with age due to structural changes occurring, while tests carried out by the manufacturer have shown that they have an adequate fatigue life.

2. It has, therefore, been decided that from the date of this order all high pressure aluminium alloy cylinders used for diving purposes are to be proof tested at intervals of five years. The date for re-proofing is to be calculated from the date of the previous pressure test stamped on each cylinder.

Painting

3. Revised instructions for the painting of cylinders after reconditioning, or for touching-up damaged paintwork on cylinders in service, are as follow—

(a) Protective Painting

One coat Etching Primer—spec DEF 1408.
Base Component (AP 0442/942-6082).
Acid Component (AP 0442/942-6081).
Thinners (AP 0442/220-0829).

One coat Paint Priming Zinc Chrome—spec DEF 1115A (AP 0442/942-1195).

One coat Light Grey, Undercoat—spec DGS 5956B (AP 0442/942-9276).

One coat Light Grey, External Weatherwork—spec DGS 5957A (AP 0442/220-2026).

(b) Contents Identification Painting

Paint, Black, Gloss—spec DEF 1052A (AP 0442/910-7001).

Paint, Finishing, Weatherwork, White—spec DGS 5957A (AP 0442/220-2024).

4. ABR 155 will be amended.

5. MOD (Navy) has advised that BR 3000 will be amended.

(DTWP 400/1/237)

UNCLASSIFIED

45—Naval Stores—Introductions and Allowances—Automatic Emergency Lights—Class/Group 0581—Catalogue Nos. 202822 and 202836

The following items have been introduced—

Class/Group	Catalogue No.	Description	Denom-ination	Accounting Status
0581	202822	Automatic Emergency Light (W/O lamp and battery)—for living quarters.	No.	F
0581	202836	Automatic Emergency Light (W/O lamp and battery)—for working spaces.	No.	F

2. **Purpose**—For fitting in HMA ships under construction or during modernisation, conversion or long refit in lieu of Automatic Emergency Lanterns Class/Group 0582 Catalogue No. 16457 and associated relays.

3. For information of HMA ships so fitted, the referenced components fitted in Automatic Emergency Lights Catalogue No. 202822 and 202836 are shown in the Annex to this order.

4. **Allowances of Spares**—“First Outfit” quantities for ships so fitted of spare automatic emergency lights and components are to be compiled on the following basis—

(a) AEL's (less lamp and battery)

Number fitted	Number to be Carried as Spares	
	Catalogue No. 202822	Catalogue No. 202836
1-50	1	1
51-200	2	2
201-400	3	3
401 and over	4	4

(b) Components

A percentage of the number of AEL's fitted as indicated in Column 7 of the annex.

5. Supply arrangements for spare AEL's and components—

(a) *Ships in commission* Spare AEL's Catalogue Nos. 202822 and/or 202836 and component spares to be demanded from SNSO, Sydney, if required, to adjust holdings in accordance with Paragraph 4.

(b) *Ships under construction, modernisation, conversion or long refit* Supply of spares will be made as a part of first outfit of stores.

6. Due to delays in the manufacture of automatic emergency lights and components, it is unlikely that supplies will be available for some time. Demands should not therefore be hastened unless the lights or components are required for immediate replacement.

ANNEX

Accounting Status	NATO Supply Classification	Class/Group Catalogue No.	Description	No. fitted in AEL 202822	No. fitted in AEL 202836	First Outfit Allowance (% of AELs Fitted)	Per Cent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
C		0413/413088	GASKET, lens rubber ..	1	—	25	
C		0413/413089	DIAPHRAGM, rubber for test push ..	1	—	25	
C		0413/413090	GASKET, cover, rubber ..	—	1	25	
C		0413/413091	GASKET, lens, rubber ..	—	1	25	
C		0413/413092	DIAPHRAGM, rubbers for test push ..	—	1	25	
C		0413/413093	CONTAINER, rubber (for Battery, 0562/910-1810)	—	1	25	
C	5940	0559/940-0450	TERMINAL STRIP, plastic ..	—	1	5	
P	6140	0562/910-1810	BATTERY, 2.4V, 10 AH ..	1	—	10	13
C		0564/204041	RECTIFIER ..	1	—	5	
C	5930	0567/972-9085	PUSH SWITCH ..	1	—	5	
C		0581/202850	LENS, perspex ..	—	1	10	
C		0581/202851	BLANKING PLATE (when fitting used as relay unit for boiler gauge class illumination)	—	1	5	
C		0581/202902	COVER, fitted with hinge and securing lug only	1	—	10	
C		0581/202903	LENS, perspex ..	1	—	10	
C		0581/202904	TRAY, plastic (for Battery, 0562/910-1810)	1	—	10	
C	6210	0581/012-0906	LIGHT, indicator, SES ..	—	1	5	
C	6240	0584/995-2207	LAMP, 2.4V, 2.2W, MES ..	1	—	25	
C	5905	0632/011-8177	RESISTOR, 110K, 1W ..	1	—	5	
C	5905	0632/022-3033	RESISTOR, 91K, 0.5W ..	1	—	5	
C	5949	0634/011-4685	RELAY ..	1	—	5	

UNCLASSIFIED

46—Naval Stores—Stud Continuous Thread

Navy Order 612 of 1966 is to be amended as follows—

Paragraph 1—under the heading "Description",

Delete 5/8-in. Dia.

Insert 5/16-in. Dia.

(DNS 505/61/214)

(Navy Order 612 of 1966)

Item No.	Description	Quantity	Unit
000001	STUD CONTINUOUS THREAD		
000002	5/8 IN DIA		
000003	5/16 IN DIA		
000004	5/16 IN DIA		
000005	5/16 IN DIA		
000006	5/16 IN DIA		
000007	5/16 IN DIA		
000008	5/16 IN DIA		
000009	5/16 IN DIA		
000010	5/16 IN DIA		
000011	5/16 IN DIA		
000012	5/16 IN DIA		
000013	5/16 IN DIA		
000014	5/16 IN DIA		
000015	5/16 IN DIA		
000016	5/16 IN DIA		
000017	5/16 IN DIA		
000018	5/16 IN DIA		
000019	5/16 IN DIA		
000020	5/16 IN DIA		
000021	5/16 IN DIA		
000022	5/16 IN DIA		
000023	5/16 IN DIA		
000024	5/16 IN DIA		
000025	5/16 IN DIA		
000026	5/16 IN DIA		
000027	5/16 IN DIA		
000028	5/16 IN DIA		
000029	5/16 IN DIA		
000030	5/16 IN DIA		
000031	5/16 IN DIA		
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000097	5/16 IN DIA		
000098	5/16 IN DIA		
000099	5/16 IN DIA		
000100	5/16 IN DIA		



ANO 47/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
8th February, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2

PERSONNEL

UNCLASSIFIED

47—Eyesight and Colour Perception Standards

The following are the standards of eyesight and colour perception for personnel of the Permanent and Citizen Naval Forces. To avoid confusion the following abbreviations are always to be used when referring to these standards—

- (a) NES—Naval Eyesight Standard.
- (b) NCPS—Naval Colour Perception Standard.

2. The standards of both eyesight and colour perception for members of the Citizen Naval Forces are the same as those for members of the Permanent Naval Forces.

3. The eyesight requirements for officers are shown in Section III. The cases of officers whose eyesight falls below the standard for their Branch are to be referred to the Medical Director-General on Form AF Med. 23.

4. The eyesight requirements for sailors are shown in Section IV. The minimum permissible standard for a serving sailor is the re-engagement standard for his particular branch. The cases of sailors whose eyesight falls below the re-engagement standard for their branch are to be referred to the Medical Director-General on Form AF Med. 23.

5. This order replaces the Handbook of Naval Eyesight and Colour Perception Standards and contains the following sections—

- Section I—Procedure for Testing Eyesight.
- Section II—Procedure for Testing Colour Perception.
- Section III—Eyesight Requirements for Officers.
- Section IV—Eyesight Requirements for Sailors.
- Section V—Summarised Table of Naval Eyesight Standards.
- Section VI—Special Requirements.
- Section VII—Supply of Spectacles and Contact Lenses.
- Section VIII—Glossary of Terms.

Section I—Procedure for Testing Eyesight

Testing of Eyesight—Eyesight is to be tested in the first place without glasses, and, secondly, with glasses, if possessed by the candidate. The Medical Officer is personally to apply the tests and satisfy himself that the candidate is not wearing contact lenses. Examining Medical Officers are to enter in the appropriate box of Form AF Med. 1 (medical examination record), the vision both near and distant, and colour perception standard.

2. **Distant Vision**—Distant vision is to be determined either by the Illuminated Roller Model Vision Acuity Testing Charts or by Snellen's Card Test Types with standard illumination.

Note—Test cards should not be left permanently exposed as they become discoloured and also the lettering may be memorised by prospective candidates.

3. **Near Vision**—Near vision is to be tested using Times Roman Test Type, each eye being tested separately, and should be recorded to read N5 EE and N5 one eye, N6 the other eye. The test card should be well illuminated with natural or artificial light, and held by the candidate at a distance of 14 inches from the eyes.

4. Manifest Hypermetropia—

- (a) A candidate whose visual acuity falls within standards 1 or 2 is to have a 2 dioptré positive sphere placed in front of each eye in turn. If he can still read the chart to the same line as before, manifest hypermetropia of more than 2 dioptrés is present and his eyesight standard must be downgraded to 3 or below.
- (b) A candidate who fails the above test, or whose visual acuity falls within standards 3-6, is to have the same test performed with a 5 dioptré positive sphere. If he can still read the chart to the same line as before, manifest hypermetropia of more than 5 dioptrés is present and his eyesight standard is 7 or worse.
- (c) All candidates who fail the test in (b) above, or whose visual acuity is in standard 7, are to be referred to a Naval Consultant Ophthalmologist for full refraction.

5. **Alternating Concomitant Squint**—Personnel placed in Naval Eyesight Standard 1 to 5 should possess binocular vision. Personnel with alternating concomitant squint may be placed in Naval Eyesight Standards 6 and 7 provided that the squint is acceptable cosmetically and the vision in each eye can be corrected to 6/6, 6/12. The presence or absence of a small angle squint should be tested for especially as follows—

The candidate is requested to look steadily at the examiner's right eye. The examiner observes the candidate's left eye and passes an opaque material before the candidate's right eye. The examiner notes whether any movement occurs at the moment of fixation of the candidate's left eye. If no movement is noted then the patient must be binocular, but if a re-fixation movement is noted then a small angle strabismus is present.

Similarly, while testing the candidate's right eye, the examiner directs his attention to the right eye of the candidate whilst covering the candidate's left eye. No movement should be noticed in the right eye; if a re-fixational movement is seen then a small angle strabismus is present.

Any doubtful cases are to be referred to the Naval Eye Specialist.

6. The test in Paragraph 4 is to be carried out before the sailor is allocated to his branch.

Section II—Colour Perception

Colour perception is to be determined by Ishihara plates and the Edridge Green Lantern until replaced by Pseudo-isochromatic plates and the Farnsworth Lantern for which operative instructions will be promulgated separately.

2. The Ishihara test is a preliminary test only, and is not to be regarded as a naval colour perception standard (*see* Paragraph 5).

3. The results of this test are to be recorded in the appropriate box of Form AF Med. 1 as "Pass" or "Fail".

4. **The Ishihara Test**—This preliminary test aids the examiner by indicating the presence of a defect of colour perception. Failure to give a perfect result in this test does not, in itself, mean the man is unfit for full Naval duties as a watchkeeper, but it demands particular care on the part of the examiner in the succeeding lantern test. A pass does not guarantee normal colour perception—

- (a) **Method of Testing**—The Ishihara plates are to be shown in good daylight, which should, if possible, come directly through a window from the open sky and not by reflection from the roofs and walls of houses; they should be held at a distance of not less than 30 inches from the candidate who should be asked to write down the figures which he sees on the cards and to sign his name at the end of the list. Two or three seconds are sufficient time to allow for viewing each plate.
- (b) The Ishihara book is not to be handled by the candidate; the plates are not to be marked in any way and are to be turned over by the examiner. The plates should not be touched as this will cause eventual discolouration. When not in use the book is to be kept in a light-tight cover under lock and key. Soiled and unserviceable books are to be returned to the Medical and Dental Store Officer for scrutiny and replacement.
- (c) **Assessment of the Result of the Ishihara Test**—If he makes no mistakes the candidate probably has normal colour perception. This test does not, however, indicate certain individuals who have difficulty in perceiving the darker red tones, and may fail in a lantern test, the so-called "shortening of the red end of the spectrum". Success in the Ishihara test alone is assessed as "Pass" or "Fail".
- (d) Mistakes made in the Ishihara test generally indicate a defect of colour perception. For Naval purposes the degree of defect must be assessed by means of the Edridge Green Lantern.

5. **The Edridge Green Lantern Test**—Assessment of colour perception standard by the Edridge Green Lantern is to be made as follows—

<i>Naval Colour Perception Standard 1</i>	To differentiate, red, signal green and white on the smallest aperture at a distance of 20 feet.
<i>Naval Colour Perception Standard 3</i>	To differentiate, red, signal green and white on the largest aperture at 20 feet.
<i>Naval Colour Perception Standard 4</i>	To apply to all candidates who fail to pass the test for standard 3.

Note—Naval Colour Perception Standard 2 indicates that the candidate has only been tested on the Ishihara plates and is awaiting a further test on the Edridge Green Lantern when available. It is a temporary indication only until confirmation of either Standard 1 or Standard 3 and is not to be used as a permanent Colour Perception Standard.

6. All candidates are to be examined under the conditions laid down for Naval Colour Perception Standard 1. In the event of their failure in this, they are to be examined under the conditions laid down for Naval Colour Perception Standard 3.

7. **Retesting of Colour Perception**—As colour perception does not alter during life except in rare cases of injury or disease, colour perception should not ordinarily be retested. If the Medical Officer has any reason to doubt the validity of a former test he is immediately to arrange a retest and in cases of doubt refer the case to the consultant Ophthalmologist. Special care is to be taken that the colour perception of Navigators, Watchkeepers, Tactical Operators and Aircrew is within the required standard.

8. In the cases where a test, subsequent to original entry, shows that there is a defect in colour perception rendering an officer or sailor unfit for full duties of his branch, the following action is to be taken—

- (a) **Officers**—A report is to be made to the Commanding Officer of his establishment or ship. The report should then be forwarded with the Commanding Officer's remarks through the usual channels to the Naval Board. No action is to be taken to hold a Board of Survey with a view to invaliding a serving officer, until Naval Board decision has been communicated.
- (b) **Sailors**—A report is to be made to the Naval Board on Form AF Med. 23 which should contain a recommendation for one of the following courses—
- retention in Branch and restriction of duties to those in which the defect will not be a source of danger;
 - transfer to a Branch in which the defect will not interfere with efficiency and promotion;
 - survey and invaliding.

It is to be noted that (i) could not be considered for a junior sailor early in his career, (ii) must depend on the sailor himself being willing to transfer and (iii) although the correct action, should be regarded as a last resort.

Section III—Eyesight Requirements for Officers

PART I—ON ENTRY

General List

(a) *Seaman Branch*—

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Cadet Midshipman Junior Entry	6/6, 6/12	N5 EE	3
Cadet Midshipman Senior Entry	6/9, 6/12	N5 EE	1

- (i) Any defect of form vision must be solely due to error of refraction and be capable of correction to 6/6. Refractive error limits (under homotropine) for all candidates—
 Total hypermetropia—2.5 dioptres in one eye.
 3.0 dioptres in the other.
 Astigmatism—0.75 dioptres in one eye.
 1.0 dioptre in the other.
 Myopia—No myopia or myopic astigmatism is allowable.
- (ii) Fields of vision must be normal to confrontation tests.
- (iii) Binocular vision should be present.

- (iv) Heterophoria (tested with Maddox rod at 6 metres) must not exceed—
Eso and Exophoria—6 prism dioptres.
Hyperphoria—1 prism dioptre.
- (v) Strabismus or any chronic disease of the eyes or eyelids will disqualify.

(b) *Engineering, Supply and Secretariat and Instructor Branches—*

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Cadet Midshipmen Junior and Senior Entry	Less than 6/60, 6/60 correctable to 6/6, 6/12	With glasses N5 one eye N6 the other eye	3

- (i) Refractive error limits (under homatropine)—
Total hypermetropia—5.0 dioptres in either eye.
Astigmatism—The difference between axes must not exceed 5.0 dioptres.
Myopia—3.0 dioptres in either eye for Junior entry.
4.0 dioptres in either eye for Senior entry.
- (ii) The fields of vision must be normal to the confrontation test.
- (iii) An alternating concomitant squint with small deviation will not debar from entry provided that the squint is acceptable cosmetically.
- (iv) If binocular vision is present, heterophoria (tested with Maddox rod at 6 metres) must not exceed—
Eso and Exophoria—6 prism dioptres.
Hyperphoria—1 prism dioptre.

Distance and reading glasses are permitted at all times.

(c) *Supplementary List and Topmen—*

- (i) Seaman Branch. As for Cadet Midshipman (Senior Entry).
- (ii) Engineering Supply and Secretariat and Instructor Branches } Naval Eyesight Standard 7

(d) *Direct Entry—*

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
Engineering Officer	7	3
Supply and Secretariat Officer ..		
Instructor Officer		
Medical Officer		
Dental Officer		
Chaplain		
Wran Officer		
RANNS		
University Undergraduates ..		

(e) *Aircrew—*

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Supplementary List— Pilot Observer Midshipmen	6/9, 6/9 The vision in each eye should be correctable to 6/6	N5 EE	1

Myopia, myopic astigmatism or squint are not acceptable.

Fundi and media must be normal.

Fields of vision must be normal to confrontation tests.

Refractive Error Limits (without Midriatic)—All Aircrew—

- (i) In the better eye—manifest hypermetropia 1.5 dioptres of which not more than 0.75 dioptres may be astigmatism.
- (ii) In the worse eye—manifest hypermetropia 2.5 dioptres of which not more than 1.0 dioptre may be astigmatism.
- (iii) Ocular Muscle Balance (Pilots Only).

Maddox Rod at 6 metres—

Exophoria 0-6 prism D.

Esophoria 0-6 prism D.

Hyperphoria 0-1 prism D.

Convergence (C) 0-10 cms. Subjective convergence (SC) is used as an aid in assessing (C). The point of binocular breakdown in SC is usually higher up the scale than in C, e.g., C = 5 cms. SC = 13 cms. Where the readings approximate, the ability of the candidate to maintain binocular vision under effort is strong, although the convergence itself may be borderline.

(iv) Accommodation—

<i>Age</i>	<i>Centimetres</i>
17-20	10 -11
21-25	11 -12
26-30	12.5-13.5
31-35	14 -16
36-40	16 -18.5
40-45	18.5-27

(v) Cover Test—Recovery must be rapid.

(f) Promotion from the Lower Deck—

(i) Upper Yardman—As appropriate branch for Cadet Midshipmen (Senior Entry).

(ii) Special Duties List—

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Seaman Categories— (G) (T) (TAS), (B) (QDD) (PR), (PT), (C), (CD) ..	6/9, 6/12	N5 EE	1
Airmen (AV)	6/9, 6/12	N5 EE	1

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
Engineer } Shipwright } Supply and Secretariat .. } Regulating (REG) .. } Wardmaster } Wran }	7	3

PART 2—SERVING OFFICERS

General List

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
<i>Seaman Branch—</i> (a) Officers below the rank of Commander ..	4 Distance and reading glasses permitted at all times	1
(b) Officers of the rank of Commander and above	5 Distance and reading glasses permitted at all times	1

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
(c) Navigating and Surveying Officers on first posting	1 Spectacles are not permitted on duty, but may be worn in offices, etc.	1
(d) Other Branches— Engineering } Supply and Secretariat .. } Instructor Officers }	7 Distance and reading glasses permitted at all times	3
(e) Special Duties List— AV, C, T, TAS, B, QDD, PR, PT, CD, G	As for General List Distance and reading glasses permitted at all times	
Regulating } Shipwright } Engineering } Supply and Secretariat .. } Wardmaster }	7 Distance and reading glasses permitted at all times	3
(f) Instructor Officer } Medical Officer } Dental Officer } Chaplain } WRAN Officer } RANNS }	7 Distance and reading glasses permitted at all times	3

(g) *Supplementary List*—The visual standard for an officer of the Supplementary List is the same as for an officer of the equivalent rank and category in either the General or Special Duties List.

Section IV—Eyesight Requirements for Sailors

Since all RAN recruits with the exception of Trade Branches, Band Branch and WRANS are allocated to their branches after entry, the minimum entry standard for male recruits is Naval Eyesight Standard 6 and Naval Colour Perception Standard 3.

2. The following are the minimum standards for the various branches and categories on first allocation, during service and on re-engagement or re-entry—

	Naval Eyesight Standard		Naval Colour Perception Standard
	On Allocation to Branch	Re-engagement or Re-entry	
<i>Seaman—</i>			
QMG, SR, CD, COX, PT ..	2	4	1
UW, RP, UC, FC, WM ..	4	6	1
<i>Communication—</i>			
TO	2	4	1
RO, ROS, DO, LIN	6	7	3
<i>Naval Airman—</i>			
AH	2	4	1
SE, Phot, Met.	6	7	3
All other branches and apprentices (see note)	6	7	3
Wran Radar Plotter	6	7	3
All other Wrans	7	7	3

*Note—*Sailor recruits for whom Naval Eyesight Standard 6 applies, may be entered subject to the following limitations—

- (a) Age not exceeding 16. Myopia in any meridian is not to exceed 1.5 dioptres.
 (b) Age 16 to 16½. Myopia in any meridian is not to exceed 2.0 dioptres.
 (c) Age 16½ and over. Myopia in any meridian is not to exceed 3.0 dioptres.

3. Junior Recruits—on Entry

- Unaided Distant Vision At least 6/9, 6/9
 Unaided Near Vision N5 EE
 Naval Colour Perception Standard 1

*Note—*Special desirable candidates, whose unaided distant vision is at least 6/12, 6/18 may be recommended to the Naval Board for acceptance.

Section V—Summarised Table of Naval Eyesight Standards—Eyesight

Naval Eyesight Standard	Distant	Near	Remarks
1	6/6, 6/6	N5 EE ..	No myopia or myopic astigmatism is allowable. Manifest hypermetropia in either eye not to exceed 2.0 dioptres in any meridian, of which not more than 1.0 dioptre may be astigmatism. Fields of vision to be full to confrontation tests
2	6/9, 6/9	N5 EE ..	As for Naval Eyesight Standard 1

Naval Eyesight Standard	Distant	Near	Remarks
3	6/12, 6/18 .. Each correctable to 6/6	N5 EE ..	Manifest hypermetropia in either eye not to exceed 5.0 dioptres in any meridian. Fields of vision to be full to confrontation tests. Spectacles to be provided and may be worn on duty
4	6/12 with both eyes together worse eye at least 6/24 with glasses 6/6, 6/12 at least	N5 One eye N6 the other eye	As in Naval Eyesight Standard 3. Spectacles to be provided and may be worn on duty
5	6/18 with both eyes together worse eye at least 6/36 with glasses 6/9, 6/12 at least	With glasses— N5 One eye N6 the other eye	As for Naval Eyesight Standard 3. Spectacles to be provided and are to be worn on duty
6	6/60, 6/60 with glasses at least 6/12, 6/12 or 6/6, 6/24	With glasses— N5 One eye N6 the other eye	As for Naval Eyesight Standard 3. Spectacles to be provided and are to be worn on duty
7	Less than 6/60 in each eye with glasses at least 6/6, 6/24 or 6/12, 6/12	With glasses— N5 One eye N6 the other eye	Hypermetropia or myopia not to exceed 7 dioptres in any meridian, under homatropine. Fields of vision to be normal to confrontation test. Binocular vision is not required. Glasses are to be worn on duty. An alternating concomitant squint is acceptable provided the squint is acceptable cosmetically and the vision in each eye can be corrected to 6/6, 6/12

*Note—*The minimum requirements for each standard of vision are stated in the above table.

Section VI—Special Requirements

Service in Submarines—Officers of all branches and sailors of the Seaman and Communication branches are to possess eyesight standard 3 or better, colour perception standard 1. All other sailors are to possess eyesight standard 4 or better, colour perception standard 3. The wearing of glasses for distant vision when on duty in submarines is not permitted, but reading glasses may be used when necessary.

2. **Divers**—Compressed Air Divers should possess eyesight standard 4, colour perception standard 1 but are not allowed to wear glasses or contact lenses when actually engaged on diving duties. Should a diver (Compressed Air or Clearance) fall below this standard then he is to be considered permanently unfit for diving and be brought forward for interim medical survey.

3. **Colour Perception Standard for Sailors of the Electrical Branch**—Recruits who are allocated to this Branch and who are placed in Naval Colour Perception Standard 3 are to be given a supplementary trade colour perception test in which they are required to match with absolute accuracy the coloured bands on 15 pairs of wires of the DEF 10 series and a number of miniature colour-coded electronic components. The test should be carried out in average room lighting and a single failure is to cause rejection.

- (a) A recruit who fails this test but who passed Naval Colour Perception Standard 3 on the Edridge Green Lantern may be accepted for entry to any other branch where Naval Colour Perception Standard 3 is permitted.
- (b) Colour Perception in these cases should be recorded in Box 58 of Form AF Med. 1 as NCPS 3 (Passed supplementary trade colour perception test) or NCPS 3 (Failed supplementary trade colour perception test).
- (c) These tests are to be carried out in HMAS CERBERUS, LEEUWIN and NIRIMBA.

4. **Sailor Aircrew**—Naval Airman, Aircrewman and Underwater Control.

Unaided Distant Vision	..	6/9, 6/9. The vision in each eye should be correctable to 6/6
Unaided Near Vision	..	N5 EE
Naval Colour Perception	..	Standard 1

Section VII—Supply of Spectacles and Contact Lenses

Reading Spectacles—Spectacles for reading and close work may be supplied at public expense for all personnel whose duties require the aid of spectacles for close work, e.g., in offices and radar cabinets.

2. **Distant Vision Spectacles for Constant Wear**—All personnel in Naval Eyesight Standard 3 to 7, except those mentioned hereunder, are permitted to wear spectacles on duty—

- Midshipmen JE and SE (Seaman Branch).
- Seaman Branch QMG, SR, CD (see note).
- Communication Branch TO.
- Naval Airman Branch AH.
- Submarine Personnel—(see Section VI).

Note—A diver is not permitted to wear spectacles or contact lenses during any part of a diving operation except as follows—

Tinted optically corrected sunglasses may be worn when prescribed by a consultant Naval Ophthalmologist and reading glasses may be worn when a diver is detailed to record times and events in a diving operation.

3. **Aircrew**—For supply of optically corrected spectacles for flying duties. See Paragraphs 67 to 76 of Navy Order 220 of 1966.

4. **Supply of Spectacles**—Provided the member is entitled to wear spectacles these will be provided at public expense. One pair of Mark III spectacles with hardened lenses and case, and one pair of civilian type spectacles may be supplied to each officer and sailor where recommended by an Ophthalmic Specialist.

5. The supply of Mark III spectacles is intended to ensure that these will always be available for wear with an anti-gas respirator and this pair is invariably to be kept in the respirator haversack.

6. Approval for the supply of spectacles is in each case to be obtained on Form AF Med. 7, subject to supply being recommended by an Ophthalmic Specialist, who should indicate on Form AF Med. 7 whether the spectacles are required for near or distant vision. Commanding Officers of ships and establishments are authorised to approve of the supply. Any cases of doubt as to eligibility of supply of spectacles at public expense are to be referred to the Medical Director-General for decision, Form AF Med. 7 being completed in duplicate.

7. In cases where supply is approved by the Commanding Officer, one copy of Form AF Med. 7 is to be forwarded to the Medical Director-General after supply has been effected and a receipt obtained from the member.

8. The supply of spectacles at public expense is to be arranged through the qualified opticians under contract with the Department and in accordance with the terms of the contract, unless unnecessary delay would occur in adopting this procedure. In such instances the Commanding Officer is to make satisfactory local arrangements for supply by a qualified optician and is to satisfy himself that the price is reasonable having due regard to the prices obtaining in the district where the purchase is made.

9. When spectacles are required by monocular personnel (or those who possess but one useful eye) to enable them to carry out their duties, arrangements should be made for a lens of unsplinterable glass to be supplied at public expense in Mark III frames. A similar issue is to be made to all Sick Berth Staff, who need to wear spectacles constantly when engaged in nursing mentally ill patients, and to Regulating Branch sailors. When spectacles are prescribed for apprentices, artificers and artisans, arrangements are to be made for lenses of hardened glass to be supplied at public expense.

10. **Contact Lenses**—Contact lenses for serving personnel will only be authorised in special cases by the Medical Director-General on the recommendation of the Senior Ophthalmic Consultant. Full details of the case and the ophthalmic specialist's report are to be forwarded to the Medical Director-General.

Section VIII—Glossary of Terms

Myopia	..	..	Short Sight
Hypermetropia	..	..	Long Sight
Astigmatism	..	..	Error in focusing lines at different angles to the horizontal.
Strabismus	..	..	Squint
Heterophoria	..	..	Unbalance of eye muscles not sufficient to cause squint (includes esophoria, exophoria, hyperphoria according to direction of pull)
Dioptre	..	..	A measure of the power of a lens
			1
			= ————— focal length in metres
Fundi and Media	..	..	Internal structures of the eye.

2. **Visual Acuity Symbols**—The visual acuity standard is expressed as a fraction, of which the numerator (top figure) is the distance at which the subject is tested, and the denominator (bottom figure) is the distance at which a normal person would see as well as the subject.

3. The numerator is standardised at 6 (metres) in RN and RAN practice and 20 (feet) in the RCN and USN. The denominator is similarly expressed in metres or feet according to the practice of the country concerned.

Examples follow (expressed in metres, with equivalent feet in parenthesis)—

$\frac{6}{6} \left(\frac{20}{20} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 6 metres (20 feet)

$\frac{6}{9} \left(\frac{20}{30} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 9 metres (30 feet)

$\frac{6}{12} \left(\frac{20}{40} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 12 metres (40 feet)

$\frac{6}{24} \left(\frac{20}{80} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 24 metres (80 feet)

$\frac{6}{36} \left(\frac{20}{120} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 36 metres (120 feet)

$\frac{6}{60} \left(\frac{20}{200} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 60 metres (200 feet)

Below $\frac{6}{60} \left(\frac{20}{200} \right)$ this notation is not used, as such a person (if without glasses) to all intents and purposes has no useful distant vision.

4. Near vision is expressed on various scales, all based on the size of printed type which the subject can read at the normal reading distance (10 inches). The scale used in the RAN is that approved by the Society of Ophthalmologists, based on ability to read the type face known as "New Times Roman" and expressed as the thickness in millimetres of the major features of the type. Normal on this scale is 0.5 (without glasses) and the minimum acceptable for most purposes is 0.6 with glasses.

(MDG 327/53/143)

(Navy Order 220 of 1966)

1. When the Government is... (faint text)

2. The Government is... (faint text)

3. The Government is... (faint text)

4. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

5. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

6. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

7. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

8. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

9. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

10. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

11. $\frac{1}{2} \left(\frac{1}{2} \right)$... (faint text)

(faint text)

(faint text)

(faint text)

(faint text)

RESTRICTED

ANO's 48-63/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
13th February, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

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48—Australian Services Representation Overseas

Appendix A to this order gives a list of Australian Services representatives overseas.

2. Commanding Officers of HMA ships visiting ports of a country to which an Australian Services representative is posted should contact the representative direct as early as practicable informing him of eta, log req, etc.

3. **Correspondence**—Unclassified mail addressed to the Services Representative should be forwarded in the Department of External Affairs diplomatic bag. Classified mail addressed to the Services Representative forwarded by Department of External Affairs diplomatic courier. Arrangements for the dispatch of mail via these channels should be made with the local Australian mission.

4. Signal communications will be made in accordance with RANCO's Article 1027.

5. Appendix B to this order gives the full address of the Australian Military Advisers' Representative (ASMAR) in the Military Planning Office, SEATO Headquarters, Bangkok. This officer represents the views of the Australian Military Adviser in the Military Advisers' Representatives Committee and to the Chief, Military Planning Office, on all matters affecting the work and functioning of the Military Planning Office.

6. Navy Order 70 of 1966 is hereby cancelled.

APPENDIX A

Australian Services Attaches and Advisers Overseas—January, 1967

Burma	Colonel N. R. McLeod, Services Attache, Australian Embassy, 88 Strand Road, RANGOON, BURMA.
Cambodia	Lieutenant-Colonel J. Given, Services Attache, Australian Embassy, 94 Moha Vithel Preah Norodom, PHNOM PENH., CAMBODIA.
India	Group Captain E. T. Pickerd, OBE, DFC, Services Adviser, Australian High Commission, 1/50G Shanti Path, Chanakyapuri, NEW DELHI, INDIA.

APPENDIX A—continued

- Indonesia Captain F. T. Sherborne, RAN,
Australian Naval Attache,
DJAKARTA,
c/o Department of External Affairs,
CANBERRA, ACT
- Japan Colonel M. P. O'Hare, OBE,
Services Attache,
Australian Embassy,
9 Mita Tsuna-Machi-Shiba,
Minato-Ku,
TOKYO, JAPAN.
- Korea Lieutenant-Colonel W. A. S. Whyte, MC,
Services Attache,
Australian Embassy,
32-10 Songwol-Dong,
Sudae Moon-Koo,
SEOUL, KOREA.
- Laos Lieutenant-Colonel R. Hone,
Services Attache,
Australian Embassy,
Quartier Phone XAY,
VIENTIANE, LAOS.
- Malaysia Colonel C. T. Dixon,
Services Adviser,
Australian High Commission,
44 Ampang Road,
KUALA LUMPUR, MALAYSIA.
- New Zealand Colonel J. Pascoe,
Australian Defence Representative,
Australian High Commission,
4th Floor, ICI House,
Molesworth Street,
WELLINGTON, N.Z.
Postal Address: PO Box 2191, WELLINGTON,
N.Z.
- Pakistan Group Captain D. L. Wilson, DFC,
Services Adviser,
Australian High Commission,
RAWALPINDI, PAKISTAN.
- Philippines Commander D. M. Wogan-Browne, RAN,
Services Attache,
Australian Embassy,
L & S Building (7th Floor),
1414 Dewey Boulevard,
MANILA, PHILIPPINES.

APPENDIX A—continued

- Singapore Captain I. M. Burnside, RAN,
Australian Defence Liaison Officer,
Australian High Commission,
MacDonald House (2nd Floor),
Orchard Road,
SINGAPORE, 9.
- Thailand Colonel J. G. Ochiltree, OBE,
Services Attache,
Australian Embassy,
323 Silom Road,
BANGKOK, THAILAND.
- Vietnam Colonel A. Swinbourne, OBE,
Military and Naval Attache,
Australian Embassy,
Caravelle Building (7th Floor),
Place Lam Son,
SAIGON, VIETNAM.
- United Kingdom Commodore D. H. D. Smyth, RAN,
Australian Naval Representative,
United Kingdom,
Australia House,
The Strand,
LONDON.
- United States of America Captain J. P. Stevenson, RAN,
Australian Naval Attache,
9th Floor, Paramount Building,
1735 Eye Street,
WASHINGTON, DC, 20006.

APPENDIX B

Australian Military Advisers' Representative (ASMAR)
Captain R. J. Scrivenor, RAN,
Australian Military Advisers' Representative (ASMAR),
SEATO Headquarters,
BANGKOK, THAILAND.

(DNI 22/201/67)

*(Navy Order 70 of 1966)***Section 2****PERSONNEL**

UNCLASSIFIED

49—Change of Title—Deputy Director General (Dental)

It has been decided that, with effect from 1st February, 1967, the title "Deputy Director General (Dental)" shall be replaced by that of "Deputy Medical Director General (For Dental Services)", short title "DMDG (D)".

(MDG 2/51/63)

UNCLASSIFIED

50—Meal Allowance

A member entitled to payment of a Meal Allowance under the provisions of NPI 211/1 (b) may, where reasonably practicable and the member so requests, be paid the allowance before the commencement of the meal to which payment relates.

(HPB 465/4/438)

UNCLASSIFIED

51—Shoulder Flashes "Australia"—Naval Dockyard Police and WRANS—Availability

The undermentioned shoulder flashes "AUSTRALIA" are now available on demand from the Superintending Victualling Store Officer, Royal Edward Victualling Yard, Sydney—

Catalogue No.	Description
67121	Blue on Blue
67122	Silver on Black
67123	Blue on Khaki

2. Gratuitous issues, as provided in Navy Order 413 of 1966, are to be made to all entitled members of the Naval Dockyard Police and WRANS, whose engagements are not due to expire before 31st July, 1967.

(D of V 917/54/86)

(Navy Order 413 of 1966)

UNCLASSIFIED

52—Taxation Concessions—Service Uniforms

The Commissioner of Taxation has advised that in future reasonable claims for expenditure actually incurred on maintenance and replacement of Service uniforms will be allowable deductions for income tax purposes. However, the member will be required to adopt a new procedure in completing his taxation return.

2. Uniform Allowance, strictly speaking, should be disclosed as assessable income and the expenditure on maintenance and periodical replacement claimed as a deduction. However, group certificates do not include Uniform Allowance as income and returns lodged by members of the Defence Forces omit both the allowance received and expenditure incurred in connection with maintenance and replacement. This practice is still acceptable to the Taxation Department.

3. If a member wishes to claim deductions each year based on expenditure he may do so, but it will be necessary for him, in calculating his assessable income, to include the amount of Uniform Allowance received and to claim deductions for expenditure incurred on maintenance and replacement of essential items of Service uniform only to the extent that such expenditure is established by detailed particulars. Because replacement of mess dress is not covered by Uniform Allowance a claim for this item may be allowed in addition to the amount of normal uniform maintenance.

4. Once a member chooses to adopt this method of claiming on actual expenditure he will be expected to use it consistently from year to year and both the Allowance and the actual expenditure as supported by detailed particulars must be shown.

5. It should be noted that the cost of acquiring items of uniform additional to the normal scale of essential kit as provided in ABR 93, as distinct from replacement, is capital expenditure and is not therefore an allowable deduction.

6. As uniform allowance does not include an element for dry cleaning and laundering of service uniforms, reasonable claims for these services are allowable deductions for income tax purposes irrespective of whether the member chooses to disclose uniform allowance or not.

7. This order will be reprinted for posting on Notice Boards.

8. Navy Order 320 of 1965 is hereby cancelled.

(HPB 271/1/42)

(Navy Order 320 of 1965)

Section 3**OPERATIONAL AND TRAINING**

UNCLASSIFIED

53—Sailors' Course Programme—January to December, 1967

Amendment No. 1

The appendix to Navy Order 653 of 1966 is to be amended as follows—

- (a) Page 4—11080 CABA Course .. Cancel 16.1.67; 30.1.67; 13.2.67; 27.2.67.
11130 POUW Course .. Amend re-engagement category to read "D"
- (b) Page 5—11290 ABWM Course .. Amend 6.3.67 to read 27.2.67
- (c) Page 6—12070 DS Course .. Cancel 9.1.67
- (d) Page 7—35360 Artificer Driver Course Cancel 30.1.67
13110 MTC Course .. Amend 14.8.67 (2) to read 14.8.67 (4)
13040 Direct Entry ERA and ERAD Amend to read "Direct Entry ERA" insert "PENGUIN 1 NBCD"
13060 Direct Entry ERA and ERAD Amend to read "Direct Entry ERA"
13140 POMED Course .. Insert "PENGUIN 2 NBCD"
- (e) Page 8—14050 POEWR Course .. Cancel 16.1.67
- (f) Page 10—15120 NASE Course .. Amend 16.1.67 to read 30.1.67
- (g) Page 12—19040 CK Course .. Add 30.1.67 (WATSON)
- (h) Page 13—21010 POMUSN Course .. Cancel 16.1.67
- (i) Page 15—70280 WRRP .. Insert after "as required"—" and 6.3.67"

(DMT 311/201/166)

(Navy Order 653 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

55—Cathodic Protection—Hull Outfits 15, 18, 19 and 20

During a recent docking it was found that corrosion had occurred to an unacceptable degree in the trunks and on the rafts of Hull Outfits 15 and 20 in HMAS STUART.

2. The cathodic protection systems for these outfits as well as for the proposed Hull Outfits 18 and 19 have been revised to reduce the problem as far as possible. The new arrangements are shown on Navy Office Drawing 223/74 "HMA Ships—Cathodic Protection Hull Outfits 15, 19, 18 and 20".

3. All ships fitted with Hull Outfits 15 and 20 are to raise a defect item to have these outfits protected in accordance with the above during their next docking.

4. Protection will be provided to Hull Outfits 18 and 19 when the outfits are installed.

(PNA 1211/52/133)

UNCLASSIFIED

56—Motor Transport—Holden Standard Sedans, Series HD and HR—Fitting of External Rear Vision Mirrors

The interior rear vision mirror fitted in Holden Standard Sedans, series HD and HR, has been found to afford inadequate coverage.

2. An external rear vision mirror is, therefore, to be fitted on the driver's door, under the leading corner of the triangular "no-draught" window, of each RAN Holden, series HD and HR, Standard Sedan.

(DNS 459/55/338)

UNCLASSIFIED

57—Naval Stores (General)—Class/Group 0265—Issue of Catalogue 0265/6206 Rings in Lieu of Catalogue 0265/6151 Washers for Use With Sprayer Hoses

Consequent on the introduction of Catalogue 0265/6151 copper asbestos washers for use with sprayer hoses, it has been found that this item is unsatisfactory and the rate of expenditure is excessive.

2. In view of the above, no further issues of Catalogue 0265/6151 washers will be made for this purpose and the following item will be issued in lieu—

Class/Group/ Catalogue No.	Description	Denomina- tion	Accounting Classification
0265/6206	Rings, copper, diamond section $\frac{1}{4}$ -in. ID x $\frac{3}{4}$ -in. OD x $\frac{1}{8}$ -in. thick	No.	C

3. The $\frac{1}{2}$ -in. wide knurling band on the spigot of the hose fitting is to be removed before using these rings to allow for correct seating of the ring on the sprayer body when the ring is compressed.

4. Provided the rings do not exhibit any mechanical damage after use, they are to be annealed after approximately twenty applications for further use.

5. A stockholding of 200 No. is considered to be adequate provision per ship.

6. Issue will be effected by SNSO, Sydney, without demand. On receipt of Catalogue 0265/6206 stocks of Catalogue 0265/6151 washers should be returned to SNSO, Sydney, for disposal.

(DNS 506/61/201)

UNCLASSIFIED

58—Naval Stores—General (Group/Class 0623)—Re-identification to NATO Groups and Classes—Underwater Equipment

Items of Underwater Equipment, presently accounted for under Group/Class 0623 and Local Stock Numbers (LSNs) have been re-identified to NATO Group/Classes.

2. Where it has been possible to establish a Federal Stock Number (FSN) for an item presently bearing an LSN, the FSN is shown. Those items with LSNs which cannot be aligned to an FSN have been allocated a NATO Group/Class and the appropriate Nation Code and retain their LSNs. Therefore, the stock number for such an item will appear for example, as 3130-00-L12168 (*See* Appendix "A").

3. Items which are currently held under an abridged FSN, that is, the Nation Code "00" is not included, have been re-identified to the full FSN (Nation Code now included). Appendix "B" is relevant.

4. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

APPENDIX A

LOCAL STOCK NUMBERS

Old Identification Number	Group/Class	New Identification Number	
		Catalogue Number	Description
L.10260	6105	00-608-8992	Armature, Motor
L.10273	6105	00-L.10273	Motor Frame Assy.
L.10274	6105	00-L.10274	Armature Assembly
L.12012	4450	00-203-0812	Blower, Centrifugal B202
L.12013	3030	00-L.12013	Belt 0-213
L.12014	3030	00-341-2881	Belt 0.214
L.12015	3110	00-L.12015	Bearing Ball 0261
L.12016	3110	00-108-9887	Bearing Ball 0-268
L.12017	3110	00-L.12017	Bearing Ball 0-272
L.12018	5845	00-L.12018	Bushing, 0-297
L.12019	5845	00-L.12019	Bushing, 0-240
L.12055	5845	00-L.12055	Bathythermograph 0-C35
L.12153	5845	00-L.12153	Buoy Transponder

APPENDIX A—continued

Old Identification Number	Group/Class	New Identification Number	
		Catalogue Number	Description
L.12154	5845	00-L.12154	Buoy Transponder
L.12167	5977	00-L.12167	Brush for Governor for Rotary Inverter
L.12168	3130	00-L.12168	Bearing Bracket Assy. Alternator end
L.12169	3130	00-L.12169	Bearing Bracket Assy. Alternator end
L.14584	5845	00-L.14584	Contact Set
L.14585	5845	00-L.14585	Contact Set
L.14586	3010	00-204-4825	Coupling
L.14587	3010	00-253-1335	Coupling
L.14589	5845	00-L.14589	Clip
L.14590	5935	00-L.14590	Connector
L.14591	5935	00-L.14591	Connector
L.14592	5950	00-711-6343	Coil
L.14594	5950	00-L.14594	Coil
L.14595	5845	00-L.14595	Coil Hash Suppressor (L5)
L.14596	5935	00-L.14596	Connector
L.14597	5935	00-883-1202	Connector
L.14598	5845	00-L.14598	Clutch, Gear Assy. for Computer for 3 Speed Paper Operation
L.14599	7530	00-L.14599	Chart Paper
L.14600	5845	00-L.145600	Contact Keying
L.14621	5950	00-L.14621	Coil
L.14623	5950	00-L.14623	Coil
L.14636	5935	00-L.14636	Clamp
L.14639	5935	00-283-3394	Clamp
L.14640	5935	00-280-1936	Clamp (Adapt. Cbl. Conn.)
L.14641	5935	00-L.14641	Connector
L.14642	5935	00-L.14642	Connector
L.14643	5935	00-L.14643	Connector
L.14644	5950	00-L.14644	Choke
L.14645	5950	00-L.14645	Inductor
L.14646	5935	00-L.14646	Connector Plug
L.14647	5935	00-L.14647	Connector Plug
L.14723	5977	00-L.14723	Brush Cap
L.14724	5845	00-L.14724	Cover
L.14725	5845	00-L.14725	Cover
L.14732	5845	00-L.14732	Cable Grip
L.14733	5845	00-521-9854	Cable Grip
L.14734	5935	00-L.14734	Connectors (Male)
L.14735	5935	00-L.14735	Connectors (Female)
L.14736	6145	00-L.14736	Cable
L.14740	5935	00-L.14740	Connector
L.22107	5845	00-L.22107	Raytheon Portable Echo Depth Sounder
L.22116	5845	00-L.22116	Raytheon Portable Echo Depth Sounder

APPENDIX A—continued

Old Identification Number	Group/Class	New Identification Number	
		Catalogue Number	Description
L.22220	5845	00-L.22220	Headset
L.22615	4450	00-L.22615	Fan
L.22630	5920	00-518-1789	Fuse
L.23520	3020	00-L.23520	Gear
L.23529	5330	00-252-5882	Gasket
L.23530	5330	00-L.23530	Gasket
L.23531	5330	00-L.23531	Gasket
L.23532	5330	00-L.23532	Gasket
L.23533	5330	00-L.23533	Gasket
L.23534	3020	00-L.23534	Gear
L.23535	3020	00-L.23535	Gear
L.23536	3020	00-L.23536	Gear
L.23537	3020	00-294-6216	Gear
L.23538	3020	00-294-5848	Gear
L.23539	3020	00-294-4761	Gear
L.23540	3020	00-L.23540	Gear
L.23541	3020	00-L.23541	Gear
L.23542	3020	00-L.23542	Gear Case
L.23543	5340	00-203-6229	Gasket, Bush Rubber 0-239
L.23544	3020	00-L.23544	Gear, 0-275
L.23545	3020	00-294-5268	Gear, 0-277
L.23649	6110	00-L.23649	Governor
L.24466	5977	00-L.24466	Holder Brush
L.24467	5977	00-L.24467	Holder Brush
L.24472	5845	00-L.24472	Hydrophone Model Z3B
L.24473	5845	00-L.24473	Hydrophone Model MP35
L.24474	5845	00-L.24474	Hydrophone Model LM12
L.24477	5845	00-L.24477	Holder, 0242
L.24478	5920	00-L.24478	Holder, Fuse Type XF 201
L.24480	5845	00-L.24480	Hydrophone, Type CH 12 A
L.24481	5845	00-L.24481	Hydrophone, Oyster
L.24483	5845	00-L.24483	Hydrophone, Model C 32
L.24484	5845	00-L.24484	Hydrophone, Model Z 3A
L.24527	5845	00-L.24527	Hydrophone, Model L034J
L.24528	5845	00-L.24528	Hydrophone, Model L057
L.24539	7610	00-L.24539	Handbook for AN/PQS-1B
L.26411	5935	00-L.26411	Jacktelephones
L.26817	5845	00-L.26817	Key Assembly
L.26818	5845	00-L.26818	Key
L.27416	6240	00-L.27416	Lamp
L.27417	6240	00-L.27417	Lamp
L.27449	6240	00-155-7836	Lamp 327
L.27903	6240	00-647-0774	Lamp
L.28841	5845	00-L.28841	Modification Kit (Mod. to 12 KC and 34 KC Operation)
L.28843	6105	00-891-9703	Motor
L.28845	6105	00-L.28845	Endbell Motor
L.28848	6105	00-L.28848	Motor
L.28849	6105	00-L.28849	Motor and Pinion

APPENDIX A—continued

Old Identification Number	Group/Class	New Identification Number	
		Catalogue Number	Description
L.28850	6105	00-L.28850	Timing Motor
L.28851	7610	00-L.28851	Manual Navships 92882
L.28883	6105	00-698-1943	Motor
L.28884	6105	00-L.28884	Motor, Stylus Feed
L.28885	6105	00-L.28885	Motor, Charfeed
L.28891	6105	00-L.28891	Motor and Gear
L.28894	5990	00-L.28894	Synchronous Motor and Pinion
L.28895	5845	00-L.28895	Timing Motor
L.29604	5340	00-680-3425	Nut
L.29623	5310	00-313-8921	Nut
L.29624	5310	00-580-8161	Nut
L.29625	5975	00-280-3857	Nut
L.29626	5915	00-382-9646	Network Impedance
L.30808	7530	00-698-7399	Paper Rolls
L.30829	5935	00-259-5959	Plug
L.30834	5845	00-L.30834	Pinion, Spur Type Straight Teeth, 20 No, 32 Pitch
L.30850	5935	00-L.30850	Connector
L.30854	5845	00-L.30854	Pre Amplifier
L.30877	5330	00-599-7788	Packing
L.30866	5845	00-L.30866	Power Supply
L.30887	5845	00-L.30887	Deflector Plate
L.32650	5845	00-L.32650	Receiver Transmitter
L.32651	5845	00-L.32651	Receiver Transmitter
L.32667	6125	00-L.32667	Inverter Rotary
L.32673	5845	00-L.32673	Transducer, Type J11
L.32754	5845	00-L.32754	Precision Depth Recorder RJC MK XI
L.32755	5845	00-L.32755	Paper Rolls
L.32756	6130	00-578-6350	Rectifier
L.32760	5845	00-L.32760	Retainer
L.32762	5845	00-L.32762	Retainer
L.32766	5330	00-641-5075	Retainer
L.32767	5845	00-L.32767	Roller Chart
L.32768	5845	00-325-7847	Roller Chart
L.32769	5340	00-625-6865	Ring Retaining
L.32770	6130	00-L.32770	Rectifier
L.32787	5845	00-L.32787	Rack Mounting
L.32811	5945	00-L.32811	Relay
L.32812	5945	00-L.32812	Relay
L.32813	5845	00-L.32813	Ring "O" Seal
L.41664	5845	00-L.41664	Spring Flat
L.41665	5845	00-L.41665	Stylus
L.41666	5845	00-L.41666	Head Spool
L.41667	5845	00-L.41667	Head Spool
L.41668	5845	00-L.41668	Head Spool
L.41669	5845	00-L.41669	Head Spool
L.41670	5845	00-L.41670	Head Spool

APPENDIX A—continued

New Identification Number

Old Identification Number	Group/Class	Catalogue Number	Description
L.41671	5340	00-309-2786	Spring
L.41672	5340	00-L.41672	Spring
L.41674	3040	00-316-1227	Shaft SS
L.41675	5340	00-582-3491	Spring
L.41676	5340	00-094-6424	Spring
L.41677	5845	00-L.41677	Stylus Assembly
L.41678	5845	00-L.41678	Shaft SS
L.41680	5845	00-L.41680	Shaft SS
L.41681	5845	00-L.41681	Shaft SS
L.41682	5845	00-311-7100	Shaft
L.41683	5845	00-L.41683	Shaft
L.41684	5845	00-699-3214	Switch
L.41685	5930	00-L.41685	Switch S 202
L.41686	5930	00-L.41686	Switch S 203
L.41687	5930	00-556-9337	Switch
L.41688	5930	00-984-2047	Switch
L.41689	5930	00-L.41689	Switch
L.41690	5935	00-129-9358	Socket Tube, XV 201
L.41691	5935	00-L.41691	Socket Tube, XC 223
L.41692	5935	00-260-0516	Socket
L.41693	5935	00-L.41693	Socket
L.41694	5935	00-L.41694	Socket
L.41695	5935	00-L.41695	Socket
L.41697	5930	00-L.41697	Switch
L.41698	5930	00-L.41698	Switch
L.41699	5930	00-L.41699	Switch
L.41700	5930	00-L.41700	Switch Stand By
L.41702	5845	00-L.41702	Stylus Assembly
L.41733	5105	00-608-6399	Spring Helical
L.41734	5845	00-L.41734	Screw Tapping
L.41735	5305	00-L.41735	Screw
L.41738	5305	00-L.41738	Screw
L.41739	5325	00-497-3195	Grommet Rubber
L.41741	6625	00-149-6266	Stud
L.41742	5845	00-L.41742	Stud
L.41745	5305	00-282-4326	Screw
L.41832	5845	00-L.41832	Stylus Band Assembly
L.41833	5845	00-L.41833	Stylus
L.41834	5930	00-L.41834	Microswitch
L.41835	5930	00-L.41835	Switch Rotary
L.41836	5930	00-L.41836	Switch
L.41837	5930	00-L.41837	Switch
L.41850	5845	00-L.41850	Screw, Thumb, Knurled
L.42380	5935	00-L.42380	Plug
L.45424	5845	00-665-1596	Transducer
L.45425	5845	00-642-6623	Transducer
L.45435	5950	00-L.45435	Transformer L201
L.45436	5950	00-189-6615	Transformer
L.45437	5950	00-231-4810	Transformer

APPENDIX A—continued

New Identification Number

Old Identification Number	Group/Class	Catalogue Number	Description
L.45438	5950	00-242-0036	Transformer
L.45439	5950	00-510-9943	Transformer
L.45440	5950	00-199-3711	Transformer
L.45443	5950	00-L.45443	Transformer
L.45444	5950	00-L.45444	Transformer
L.45445	5845	00-L.45445	Track Assembly
L.45458	5950	00-L.45458	Transformer
L.45476	5950	00-L.45476	Transformer Interstage
L.45477	5950	00-L.45477	Transformer Signal
L.45478	5950	00-727-2100	Transformer
L.45479	5950	00-755-6943	Transformer
L.45480	5950	00-727-2096	Transformer Power
L.45481	5950	00-L.45481	Transformer Point
L.45494	5950	00-727-2096	Transformer Power
L.45495	5950	00-755-6943	Transformer Driver
L.47551	5845	00-L.47551	Underwater Sound Communication Set
L.47568	5845	00-L.47568	Spares for Bathythermograph (L12055)
L.48313	6130	00-702-4853	Vibrator
L.48320	6130	00-L.48320	Vibrator 12 V
L.49463	5325	00-L.49463	Washer
L.49466	5940	00-495-9180	Washer
L.49467	5325	00-L.49467	Washer
L.50279	5935	00-L.50279	Socket

APPENDIX B

ABRIDGED FEDERAL STOCK NUMBERS

Old Identification Number		New Identification Number		
Group/Class	Catalogue Number	Group/Class	Catalogue Number	Description
3110	155-9626	3110	00-155-9626	Bearing, Ball
3110	156-4126	3110	00-156-4126	Bearing, Ball
3110	156-4215	3110	00-156-4215	Bearing, Ball
5305	271-3564	5305	00-271-3564	Screw
5305	282-8415	5305	00-282-8415	Screw
5310	298-4856	5310	00-298-4856	Washer
5315	719-5100	5315	00-719-5100	Key Machine
5325	276-4916	5325	00-276-4916	Washer
5325	497-3195	5325	00-497-3195	Screw
5340	508-4958	5340	00-508-4958	Lock
5340	680-3425	5340	00-680-3425	Nut
5845	295-8687	5845	00-299-8687	Audio Amplifier

APPENDIX B—continued

Old Identification Number		New Identification Number		
Group/ Class	Catalogue Number	Group/ Class	Catalogue Number	Description
5845	295-8688	5845	00-295-8688	Listing Amplifier
5845	295-8689	5845	00-295-8689	Power Amplifier
5845	295-8691	5845	00-295-8691	Oscillator
5845	295-9328	5845	00-295-9328	Boot
5845	319-2271	5845	00-319-2271	Stud
5845	373-2742	5845	00-373-2742	Fusholder
5845	373-2758	5845	00-373-2758	Gasket
5845	669-8053	5845	00-669-8053	Modulator
5905	603-8372	5905	00-603-8372	Resistor
5910	666-7526	5910	00-666-7526	Capacitor
5915	583-4895	5915	00-583-4895	Filter
5920	131-9774	5920	00-131-9774	Fuse Cartridge
5920	280-3177	5920	00-280-3177	Fuse Cartridge
5920	280-4006	5920	00-280-4006	Fuse Cartridge
5920	285-0719	5920	00-280-0719	Fusholder
5920	296-0361	5920	00-296-0361	Fuse Cartridge
5920	681-6464	5920	00-681-6464	Fuse Cartridge
5930	201-9613	5930	00-201-9613	Switch
5930	296-7206	5930	00-296-7206	Thermostat
5930	313-8379	5930	00-313-8379	Switch
5930	373-3583	5930	00-373-3583	Switch
5930	655-1575	5930	00-655-1575	Switch
5935	280-1873	5935	00-280-1873	Connector
5940	688-7314	5940	00-688-7314	Screw
5945	244-1505	5945	00-244-1505	Relay
5945	752-0281	5945	00-752-0281	Relay
5950	669-9972	5950	00-669-9972	Transformer
5950	860-0801	5950	00-860-0801	Transformer
5965	295-8679	5965	00-295-8679	Headset
5965	644-4945	5965	00-644-4945	Microphone
5975	508-1244	5975	00-508-1244	Tube
5977	033-4460	5977	00-033-4460	Brush Assembly
5977	549-8052	5977	00-549-8052	Cap
5977	549-8402	5977	00-549-8402	Cap Electrical
5977	578-6582	5977	00-578-6582	Brush and Spring Assy.
5977	603-8372	5977	00-033-4460	Brush
6105	608-6444	6105	00-608-6444	Motor AC
6105	608-6447	6105	00-608-6447	Spring
6105	891-9703	6105	00-891-9703	Motor DC
6125	500-3663	6125	00-500-3663	Invertor Rotary 100V
6145	194-9825	6145	00-194-9825	Braid Wire Setscrew 8-32
6150	390-6189	6150	00-390-6189	Fan Armature
6152	562-4200	6152	00-562-4200	Retainer Grease
6250	299-5364	6250	00-299-5364	Nut-Lampholder
6720	356-7255	6720	00-356-7255	Cover, Motor

(DSAP 519/58/255)

UNCLASSIFIED

59—Paxman YHA and RPH Diesel Engines—CAV Injector Pumps

A recent failure of a Paxman Diesel engine was caused when a barrel locking pin on the CAV injector pump (Part No. 5335-289) unscrewed. Fuel at injector pressure was sprayed onto the exhaust manifold and thence into the air inlets, leading to extensive damage to the engine.

2. To prevent a repetition of this type of defect it has been decided that the existing barrel locking pins are to be replaced by an improved type which can be wired in place, to prevent unscrewing. This modification, which is applicable to the following ships, is to be carried out by defect action when stocks of the new pins are available and pumps are due for overhaul—

HMAS QUEENBOROUGH

HMAS VAMPIRE

HMAS VENDETTA

HMAS DUCHESS

HMAS YARRA

HMAS PARRAMATTA

HMAS STUART

HMAS DERWENT

HMAS MORESBY

3. Ships concerned are to include a defect item worded as follows in their next Main Defect Lists—

" Pin, barrel locking, P/N 5335/289, non wired, fitted to CAV fuel pump BPE 6Z used in Paxman YHA and RPH engines to be replaced by pin, barrel locking, P/N 7029/238 wired."

4. Arrangements are also to be made for " On Board " and depot spare injector pumps to be similarly modified.

5. On completion of the modification, ship's " As Fitted " drawings, instruction books, BR's and parts and allowance lists are to be amended as necessary.

6. Arrangements are also to be made by dockyards, training establishments and other authorities for their copies of the above publications to be amended.

(ACDC 1215/56/352)

UNCLASSIFIED

60—Safety—Drill Using SL Rifle With Bayonet Fixed

Several men have received injuries when drilling with the self loading rifle with bayonet fixed. It is possible to impale the hand onto the bayonet of the man on the left when dressing with intervals, particularly if the squad being drilled is not correctly sized.

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2. The following precautions should be observed—
- The L1A1 bayonet is extremely sharp and great care should be exercised when drilling with bayonets fixed.
 - The squad should be correctly sized before carrying out drill with the L1A1 rifle.
 - The drill for dressing with intervals should be modified slightly so that the left arm is moved slightly to the rear of the shoulder of the man on the left before being cut smartly to the side.
 - During initial training and until the drill outlined in Sub-paragraph (c) above is perfected, scabbards may be left on the bayonets.

(CONS 177/1/80)

UNCLASSIFIED

61—Stowage and Accounting Arrangements for Naval and Air Stores and Machinery Spares in HMAS STALWART

The instructions detailed in ABR 4 are applicable to Naval stores and machinery spares in HMAS STALWART, now being constructed as an Escort Maintenance Ship for the RAN, except as varied in the following paragraphs.

Stowage Arrangements

2. Naval and air stores whether supplied for EMS use or for repairs and maintenance to equipments in supported ships are not to be segregated but are to be dealt with as a single outfit of stores.

3. Machinery spares carried for repairs and maintenance to equipments fitted in supported ships, are to be the responsibility of the Supply Officer in HMAS STALWART. The items are to be stowed in storerooms under the control of the Supply Officer. As far as practicable the items are to be stowed in left justified sequence of reference, part or drawing numbers within each respective NATO Group Class.

4. Machinery spares carried for repairs and maintenance to equipments fitted in HMAS STALWART are to be the responsibility of the appropriate Technical Officers in accordance with ABR 4 Article 1802, and are to be stowed as follows—

- The items are to be stowed in storerooms under the control of these officers in numerical sequence, as far as practicable, of the page and line of the list of equipment, &c. concerned.
- Interchangeable parts are to be stowed in single locations, a suitable reference being made in other stowage locations applicable to the items.

Issues of Naval Stores, Air Stores and Machinery Spares Under Control of the Supply Officer

5. Issues to personnel of HMAS STALWART whether for HMAS STALWART or supported ships equipment are to be made on Forms SX100 (in lieu of AS 156) in accordance with the procedure set out in ABR 4, Chapter 8, except in the circumstances referred to in Paragraph 6 hereunder.

6. If consequent on approved alterations or for other reasons, it is necessary to issue permanent items (additional to those already fitted) to HMAS STALWART personnel for supported ships, the transaction is to be regarded as a transfer to the supported ship concerned, and dealt with in accordance with ABR 4 Chapter 13. In such cases Forms AS 197 amending the relevant List of Equipment, etc., are to be initiated by the officer responsible for authorising the work as and if necessary.

7. Issues of permanent stores to personnel of supported ships are normally to be made only to replace or repair defective articles in use and, whenever possible, are to be dealt with as exchange transactions, on a one for one basis. Transactions are to be effected as follows—

- Exchange Transactions. When immediate exchange is possible, Forms SX100 (internal demand, issue and return vouchers) are to be raised in triplicate by the officer responsible for effecting the repairs in the supported ships and dealt with as follows—
 - Copies Nos. 1 and 2 accompanied by the defective item, are to be forwarded to the appropriate store room in HMAS STALWART and Copy No. 3 retained by the returning officer for record purposes.
 - Copies Nos. 1 and 2 are to be stamped for exchange as shown in ABR 4, Article 0904 and used both as a return and issue voucher.
 - After signature by the person receiving the stores, Copy No. 1 is to be used to credit the serviceable and debit the unserviceable columns of HMAS STALWART ledgers and in the case of articles bearing registered numbers to amend Forms AS 155Z. Copy No. 2 is to be forwarded to the demanding officer for retention.
- Issues in circumstances when an unserviceable item is not available for immediate exchange are to be made as transfers using Forms AS 549 as laid down in ABR 4 Chapter 13, particular attention being paid to Paragraph (2) of Article 1306.

8. Issues of consumable stores to personnel of supported ships are normally to be made only to maintain equipments or articles in use and are to be effected as follows—

- issues of quasi permanent and valuable and attractive consumable stores are to be made as transfers using Forms AS 549 as laid down in ABR 4 Chapter 13;
- issues of other consumable stores are to be made on counter books Forms AS 149 raised in triplicate;
- such issues are to be made only to persons authorised by the supported ship's Commanding Officer to draw consumable stores from STALWART for maintenance purposes and provided that specimen copies of the signatures of persons concerned have been forwarded to STALWART's Supply Officer;
- at least one counter book of Forms AS 149 is to be maintained in each appropriate storeroom in HMAS STALWART for each supported ship—this may be increased if warranted by the volume of transactions or if desirable for administrative reasons;
- at the close of each day's transactions, or earlier at the discretion of STALWART's Supply Officer, the Forms AS 149 are to be ruled off and Copies Nos. 1 and 2 disposed of as follows—

Copy No. 1 .. to be forwarded to the Naval Store Officer, HMAS STALWART, and used as a supporting voucher to post the ledgers.

Copies Nos. 2 and 3 .. to be forwarded to the Commanding Officer of the supported ship concerned;

- (f) the No. 2 Copies of the Forms AS 149 are to be examined by the appropriate Store Accounting Officer in the supported ship, if necessary in conjunction with departmental officers. If the items drawn are considered to be reasonable the form is to be signed and endorsed accordingly and returned to the Supply Officer, HMAS STALWART who is to carry out occasional test comparisons of the Nos. 1 and 2 Copies of the forms;
- (g) the No. 3 Copies of the Forms AS 149 are to be retained by the appropriate Store Accounting Officer in the supported ship for record purposes.

Issues of Stores Under the Control of Technical Officers

9. Issues of stores under the control of Technical Officers are to be made to personnel of HMAS STALWART only and in the manner prescribed for spare gear in ABR 4 Article 1811A.

Return of Stores from Departments and Supported Ships

10. Returns of stores to the Supply Officer are to be made as follows—

- (a) *By Personnel of HMAS STALWART*—on Forms SX 100 in the manner laid down in ABR 4 Chapter 9, for Forms AS 1091.
- (b) *By Personnel of Supported Ships*—if it is an exchange transaction and the defective item is available for immediate return then it is to be dealt with as laid down in Paragraph (7) (a) of these instructions. In all other cases the returns are to be dealt with as transfers using Forms AS 549 as laid down in ABR 4, Chapter 13.

11. Return of stores to storerooms under the control of Technical Officers are to be made by personnel of HMAS STALWART only and in the manner prescribed for spare gear in ABR 4 Article 1811A.

Accounting Arrangements

12. Naval and air stores and machinery spares under the control of supply officer are to be dealt with in a single account on Forms AS 151 and AS 153 as appropriate.

- (a) The pages for the items are to be arranged in left justified sequence of catalogue numbers, or in the case of machinery spares the reference, part or drawing numbers, within the various Royal Navy Class Groups and Defence/NATO/Federal Catalogue System Group Classes of the items concerned. For example, an item supplied under the number 0472/L12345 would be included in Royal Navy Class Group 0472 ledger whereas an item supplied under the number 4210-00-910-1234 would be included in Defence/NATO/Federal Group Class ledger.
- (b) Pages for spare gear items are to be endorsed with details of the respective parent equipments and the name of the supported ship or ships in which they are fitted. To assist in identifying those items which are to be replenished from the Machinery Spares Depot, the pages for initial outfit of spare gear will be stamped "Machinery Spares." Pages prepared for additional items supplied by the Machinery Spares Depot are to be similarly stamped.

13. Machinery spares under the control of Technical Officers are to be recorded on Forms E 55R and E 55C, as appropriate, and accounted for in accordance with ABR 4 Chapter 18 as applicable to spare gear. Ledger pages are to be arranged in numerical sequence of the page/line of the list of equipment, etc., concerned. Interchangeable spares are to be dealt with on "master" and supporting "slave" pages within each set of ledgers. A "master" page is to be raised for each interchangeable item and is to show the sum total of such items allowed and on charge while the "slave" pages are only to show details of the respective parent equipments and the page and line number of the list concerned, but not quantities allowed or on charge.

14. The above instructions will be incorporated in ABR 4.

(ADSA (M) 400/56/73)

UNCLASSIFIED

62—Ventilation—Air Conditioning Type 12 Destroyer Escorts

There is an increasing demand for more ventilation and air conditioning on Type 12 Destroyer Escorts, and action is in hand to up rate the air conditioning capacity and distribution systems, subject to compensation weight being available.

2. Due, however, to the lack of maintenance, cleaning of filters, and the unauthorised variation in distribution of air, the systems are not operating at optimum output.

3. It has been reported by Dockyards that during ventilation trials the outputs of some systems were doubled after cleaning filters and exhaust grilles.

4. Every endeavour is to be made to comply with the relevant instructions included in the Planned Maintenance Schedules and Sections 1 (a) and 5 (b) of "Operating and Maintenance Handbook for Frigrite and Worthington Air Conditioning Equipment fitted to HMA Ships DERWENT, PARRAMATTA and STUART".

5. Hatches which give access direct to engine and boiler rooms are to be kept closed to contain the wild heat and stop its infiltration to air conditioned spaces.

(PNA 1224/68/344)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

63—Mail for HMA Ships

The Postmaster-General's Department has provided a schedule showing the current arrival and departure times of mails at the Port of Colombo, Ceylon. This schedule is contained in the appendix to this order.

2. Navy Order 601 of 1966 is also relevant.

RESTRICTED

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APPENDIX

CEYLON

	<i>Local Standard Time</i>		<i>Colombo GPO</i>	<i>*Trincomalee</i>
A R R I V A L S	BY AIR AT POST OFFICE	S		
		M		
		T	3.30a. 1.30p.	
		W		
		T	9p.	
		F		
		S	3.30a.	
READY FOR COLLECTION			Wednesday Saturday and Sunday (Time not known)	
D E P A R T U R E S	BY AIR MAIL CLOSES AT POST OFFICE	S		
		M	2a.	
		T		
		W	2a.	
		T	9a.	
		F	2a.	
		S	10a.	

*Mail is available at Trincomalee on same days as in Colombo (Times of arrival at Trincomalee unknown). Mail must be posted two days ahead at Trincomalee to ensure inclusion in Colombo dispatches (closing times unknown).

(AS (NS) 68/201/22)

(Navy Order 601 of 1966)

By Authority: A. J. ARTHUR, Commonwealth Government Printer, Canberra.

RESTRICTED



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
20th February, 1967.

The enclosed order is promulgated for information, guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

64—Naval Stores—General (Group/Class 0623)—Re-identification to NATO Groups and Classes—Teletype and Facsimile Equipment

Items of Teletype and Facsimile Equipment presently accounted for under Group/Class 0623 and manufacturers part numbers have been re-identified to NATO Group/Classes and are listed in the appendix to this order.

2. Where it has been possible to establish a Federal Stock Number (FSN) for a specific part number, the FSN is shown. Part numbers for which FSNs are not known have been prefixed by the appropriate NATO Group/Class and Nation Code. Additionally, the part number has been prefixed by TT to indicate that the part number relates to Teletype and Facsimile Equipment, therefore the stock number, in such instances, will be 5815-00-TT6710.

3. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

APPENDIX

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/169M	5950	00-224-4524	Coil
0623/194M	5950	00-231-9867	Coil
0623/247M	5950	00-519-9587	Coil
0623/190M	5950	00-231-9866	Magnet
0623/207M	5950	00-349-5033	Magnet Coil
			Assembly 920HM
0623/224M	5950	00-645-3492	Magnet Assembly
0623/245M	5950	00-303-4349	Magnet Coil
0623/252M	5950	00-302-6447	Coil Magnet
			2000HM
0623/254M	5950	00-654-7303	Magnet Assembly
0623/73238	5950	00-448-7578	Coil
0623/73290	5950	00-TT73290	Cone
0623/110425	5950	00-392-1719	Coil
0623/158286	5950	00-654-7306	Transformer
0623/2658	5310	00-268-7519	Nut
0623/4707	5310	00-641-9260	Washer
0623/1036	5310	00-391-9546	Nut 6-40 Hex
0623/2034	5310	00-186-7453	Washer
0623/2191	5310	00-194-1007	Washer Lock
0623/2199	5310	00-208-8727	Nut
0623/2201	5310	00-199-6954	Nut
0623/2247	5310	00-209-6457	Washer

*Old Identification No.**New Identification No.*

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/2254	5310	00-187-3441	Washer
0623/2322	5310	00-637-2522	Washer
0623/2382	5310	00-193-7533	Washer
0623/2407	5310	00-209-0919	Washer
0623/2422	5310	00-186-7422	Washer
0623/2438	5310	00-194-0019	Washer
0623/2449	5310	00-391-9658	Washer
0623/2539	5310	00-208-8717	Nut
0623/2597	5310	00-194-1466	Washer
0623/2669	5310	00-638-4317	Washer
0623/2719	5310	00-286-8872	Washer
0623/2846	5310	00-194-1465	Washer
0623/2920	5310	00-188-5016	Washer
0623/3110	5310	00-208-8707	Nut
0623/3288	5310	00-194-1467	Washer
0623/3339	5310	00-221-4874	Nut
0623/3340	5310	00-194-0024	Washer
0623/3438	5310	00-286-8874	Washer
0623/3595	5310	00-208-8725	Nut
0623/5597	5310	00-268-7361	Nut
0623/3598	5310	00-194-8196	Nut
0623/3599	5310	00-194-8195	Nut
0623/3606	5310	00-194-8166	Nut
0623/3639	5310	00-188-5017	Washer
0623/3640	5310	00-194-1478	Washer
0623/3646	5310	00-197-3306	Washer
0623/3649	5310	00-194-1477	Washer
0623/3650	5310	00-193-7578	Washer
0623/4814	5310	00-197-3311	Washer
0623/5599	5310	00-194-8167	Nut
0623/7037	5310	00-194-1455	Washer
0623/7337	5310	00-125-4904	Washer
0623/8449	5310	00-412-5635	Collar
0623/8896	5310	00-637-2785	Shims
0623/34432	5310	00-193-7377	Washer
0623/36273	5310	00-193-7614	Washer
0623/41663	5310	00-193-7611	Washer
0623/41675	5310	00-194-1469	Washer
0623/45815	5310	00-186-7499	Washer
0623/61085	5310	00-332-4597	Washer
0623/70072	5310	00-527-5887	Washer
0623/70314	5310	00-391-9668	Washer
0623/70793	5310	00-193-9985	Washer
0623/70886	5310	00-641-9259	Washer
0623/70892	5310	00-391-9675	Nut
0623/71045	5310	00-515-7886	Nut
0623/71047	5310	00-448-1550	Shim
0623/71073	5310	00-193-9990	Washer
0623/71156	5310	00-209-1997	Shim

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/71266	5310	00-285-8090	Washer
0623/71437	5310	00-391-9679	Washer
0623/71858	5310	00-193-9987	Washer
0623/72509	5310	00-391-9691	Washer
0623/72579	5310	00-391-9694	Washer
0623/72883	5310	00-448-3767	Washer
0623/73175	5310	00-391-9697	Washer
0623/73232	5310	00-448-3771	Washer
0623/73419	5310	00-515-8525	Shim
0623/73427	5310	00-515-8528	Shim
0623/73844	5310	00-193-7622	Washer
0623/73946	5310	00-448-3782	Nut
0623/74029	5310	00-285-8093	Washer
0623/74032	5310	00-515-8530	Washer
0623/74033	5310	00-448-3792	Washer
0623/74036	5310	00-208-8710	Nut
0623/74283	5310	00-194-2791	Washer
0623/74334	5310	00-194-2777	Washer
0623/74731	5310	00-391-9736	Nut
0623/74807	5310	00-208-8718	Nut
0623/74722	5310	00-515-8532	Washer
0623/74900	5310	00-515-6752	Washer
0623/74901	5310	00-268-7518	Nut
0623/76081	5310	00-194-0691	Washer
0623/76099	5310	00-285-8087	Washer
0623/76461	5310	00-285-8088	Washer
0623/77019	5310	00-125-4998	Washer
0623/77955	5310	00-391-9784	Washer
0623/78596	5310	00-595-9338	Washer
0623/78745	5310	00-448-3982	Cap
0623/80313	5310	00-198-3675	Washer
0623/80721	5310	00-209-5242	Washer
0623/81774	5310	00-186-7436	Washer
0623/83856	5310	00-639-8259	Screw
0623/84579	5310	00-193-7613	Washer
0623/87398	5310	00-448-1827	Washer
0623/88857	5310	00-286-3220	Washer
0623/89897	5310	00-038-1533	Nut
0623/90791	5310	00-018-8131	Washer
0623/90951	5310	00-014-7755	Washer
0623/91683	5310	00-448-4144	Nut
0623/93117	5310	00-579-3046	Washer
0623/93160	5310	00-193-7615	Washer
0623/93587	5310	00-209-0481	Washer
0623/95438	5310	00-448-1999	Nut
0623/97306	5310	00-448-4182	Washer
0623/98361	5310	00-209-1981	Shim
0623/98642	5310	00-012-1801	Washer
0623/100987	5310	00-392-1400	Washer

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/100994	5310	00-392-1404	Nut
0623/101633	5310	00-194-1543	Washer
0623/102839	5310	00-194-1511	Washer
0623/102994	5310	00-754-4261	Washer
0623/105029	5310	00-392-0497	Washer
0623/106200	5310	00-448-2171	Washer
0623/106204	5310	00-187-4261	Nut
0623/108007	5310	00-392-1452	Spacer
0623/108355	5310	00-392-1595	Nut
0623/108450	5310	00-392-1620	Washer
0623/108867	5310	00-392-1678	Shim
0623/110435	5310	00-369-8690	Nut
0623/110743	5310	00-209-3861	Washer
0623/112626	5310	00-208-8712	Nut
0623/112967	5310	00-392-1008	Washer
0623/114165	5310	00-392-1081	Nut
0623/114478	5310	00-392-1776	Nut
0623/114876	5310	00-392-1780	Washer
0623/114878	5310	00-392-1782	Spacer
0623/115221	5310	00-527-5963	Washer
0623/117541	5310	00-677-4878	Washer
0623/117608	5310	00-637-3649	Nut
0623/119401	5310	00-767-0751	Washer
0623/120489	5310	00-677-4880	Washer
0623/121630	5310	00-392-1862	Washer
0623/121768	5310	00-392-1867	Nut
0623/122743	5310	00-637-3937	Washer
0623/123435	5310	00-392-1972	Washer
0623/124426	5310	00-525-0877	Washer
0623/124804	5310	00-392-2027	Spacer
0623/124973	5310	00-595-5448	Washer
0623/125009	5310	00-392-2043	Nut
0623/125011	5310	00-193-7389	Washer
0623/125218	5310	00-208-8730	Nut, 1/2-in. 32 Hex.
0623/125220	5310	00-208-8715	Nut
0623/125229	5310	00-297-4126	Nut
0623/125231	5310	00-515-7828	Nut
0623/125235	5310	00-639-6529	Nut 4-36 Hex
0623/125390	5310	00-392-2158	Washer, flat
0623/125452	5310	00-193-7621	Washer, flat
0623/125789	5310	00-639-6985	Washer
0623/125802	5310	00-193-7620	Washer
0623/130664	5310	00-525-0824	Washer
0623/130667	5310	00-821-9511	Washer, lock
0623/130683	5310	00-611-5042	Washer
0623/150323	5310	00-595-7345	Washer
0623/151558	5310	00-637-4064	Nut
0623/151899	5310	00-208-9847	Nut

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/152426	5310	00-525-2055	Nut
0623/153323	5310	00-679-8493	Ring
0623/153402	5310	00-567-8886	Nut
0623/153819	5310	00-524-3413	Washer
0623/153824	5310	00-524-3417	Clamp
0623/153846	5310	00-895-3589	Plate Nut
0623/154076	5310	00-706-0284	Plate
0623/154083	5310	00-753-7055	Spacer
0623/154087	5310	00-701-8719	Plate
0623/154088	5310	00-701-8716	Plate
0623/155967	5310	00-701-2463	Washer
0623/155968	5310	00-701-2465	Washer
0623/156162	5310	00-721-4604	Washer
0623/156390	5310	00-677-5771	Washer
0623/156399	5310	00-677-3771	Nut
0623/156426	5310	00-677-4898	Washer
0623/156465	5310	00-754-4265	Washer
0623/156509	5310	00-753-7052	Washer
0623/158033	5310	00-706-6897	Spacer
0623/158213	5310	00-706-6899	Plate
0623/158215	5310	00-706-6900	Plate
0623/158216	5310	00-706-6901	Plate
0623/158217	5310	00-706-6902	Plate
0623/158881	5310	00-701-2469	Rocker
0623/159543	5310	00-691-3449	Washer
0623/159597	5310	00-691-3450	Washer
0623/159603	5310	00-691-2795	Washer
0623/159642	5310	00-706-6933	Shim
0623/159643	5310	00-706-7792	Shim
0623/160674	5310	00-701-9689	Nut
0623/161139	5310	00-701-9692	Nut
0623/2760	5340	00-448-1360	Spring
0623/121245	5340	00-860-1778	Clamp
0623/155551	5340	00-707-0213	Ring, Retaining
0623/2526	5340	00-160-0108	Spacer
0623/2565	5340	00-448-3663	Key, Lever, Spring
0623/2663	5340	00-598-2761	Buffer
0623/7965	5340	00-448-3995	Spring
0623/8254	5340	00-598-3827	Clamp
0623/8308	5340	00-530-6425	Clamp
0623/31636	5340	00-448-1417	Spring
0623/41385	5340	00-448-1425	Spring
0623/42661	5340	00-448-1433	Spring
0623/45024	5340	00-448-1439	Spring
0623/55088	5340	00-448-3709	Spring
0623/71999	5340	00-448-3751	Spring
0623/72473	5340	00-448-3756	Spring
0623/72595	5340	00-448-1572	Spring
0623/73483	5340	00-448-3773	Spring

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74330	5340	00-448-3829	Spring
0623/74331	5340	00-448-3830	Spring
0623/74511	5340	00-448-3849	Spring
0623/74548	5340	00-448-3856	Spring
0623/74594	5340	00-664-1757	Ring
0623/74702	5340	00-448-3782	Spring
0623/74987	5340	00-448-3914	Spring
0623/74988	5340	00-448-3915	Spring
0623/76295	5340	00-448-3944	Spring
0623/76296	5340	00-448-3945	Spring
0623/76298	5340	00-448-1622	Spring
0623/78496	5340	00-391-9795	Contact
0623/78497	5340	00-391-9796	Contact
0623/78740	5340	00-448-3980	Spring
0623/78741	5340	00-448-3981	Spring
0623/78748	5340	00-448-3985	Spring
0623/78824	5340	00-448-3988	Spring
0623/80460	5340	00-391-9841	Clamp
0623/80581	5340	00-448-1691	Spring
0623/80926	5340	00-448-4014	Spring
0623/80945	5340	00-448-4015	Spring
0623/82075	5340	00-448-4034	Spring
0623/82726	5340	00-129-1983	Spring
0623/84592	5340	00-391-9930	Shim
0623/86273	5340	00-448-4092	Spring
0623/86712	5340	00-448-1811	Spring
0623/87401	5340	00-448-4102	Spring
0623/87656	5340	00-448-1834	Spring
0623/90490	5340	00-285-8086	Shim
0623/90615	5340	00-448-1886	Spring
0623/91577	5340	00-448-4142	Spring
0623/95428	5340	00-448-1997	Spring
0623/85456	5340	00-448-4170	Spring
0623/95478	5340	00-448-2001	Spring
0623/98636	5340	00-448-2050	Spring
0623/101714	5340	00-448-2091	Spring
0623/103357	5340	00-568-1001	Spring
0623/104824	5340	00-448-3586	Spring
0623/107274	5340	00-448-2178	Spring
0623/110879	5340	00-448-2185	Spring
0623/115134	5340	00-461-6400	Washer
0623/119648	5340	00-205,4731	Ring
0623/119649	5340	00-282-5322	Ring
0623/119650	5340	00-392-1819	Ring
0623/119652	5340	00-282-1633	Ring
0623/121242	5340	00-679-8314	Clamp
0623/121246	5340	00-598-0318	Clamp
0623/123337	5340	00-392-1888	Spring
0623/123395	5340	00-392-1940	Spring

Old Identifi-
cation No.

New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/123443	5340	00-392-1980	Spring
0623/139555	5340	00-647-3717	Spring
0623/151397	5340	00-312-8970	Spring Extension
0623/151398	5340	00-302-6344	Spring Transfer Lever
0623/152129	5340	00-370-2009	Spring
0623/152257	5340	00-309-0809	Spring
0623/153340	5340	00-302-6719	Spring Torsion
0623/153341	5340	00-302-6445	Spring Torsion
0623/153806	5340	00-656-6936	Spring
0623/154197	5340	00-707-0212	Plug
0623/156572	5340	00-701-2467	Washer
0623/156861	5340	00-706-8771	Retainer
0623/157200	5340	00-567-7759	Spring
0623/157238	5340	00-545-2785	Spring
0623/158064	5340	00-706-6898	Clip
0623/158789	5340	00-706-8776	Plug Idler Gear Oil Retain
0623/4840	5120	00-391-9618	Wrench
0623/125754	5120	00-333-9450	Wrench
0623/161686	5120	00-859-7528	Tool Universal Function Bar
0623/4838	5120	00-TT4838	Wrench
0623/4840	5120	00-TT4840	Wrench
0623/73404	5120	00-TT73404	Wrench
0623/78590	5120	00-TT78590	Pliers
0623/89954	5120	00-TT89954	Wrench
0623/89955	5120	00-392-0013	Wrench
0623/90873	5120	00-TT90873	Wrench
0623/104457	5120	00-TT104457	Wrench
0623/110271	5120	00-TT110271	Wrench
0623/110442	5120	00-TT110442	Screwdriver
0623/121038	5120	00-TT121038	Wrench
0623/125752	5120	00-TT125752	Socket Wrench $\frac{1}{8}$ -in.
0623/125754	5120	00-TT125754	Wrench
0623/125761	5120	00-293-1790	Open Wrench $\frac{1}{2}$ -in.
0623/125763	5120	00-TT125763	$\frac{1}{2}$ -in. x $\frac{1}{2}$ -in. Open Wrench
0623/125765	5120	00-TT125765	Wrench
0623/129534	5120	00-TT129534	Wrench, Open End, $\frac{1}{2}$ -in.
0623/129535	5120	00-TT129535	Wrench, Open End, $\frac{1}{2}$ -in. x $\frac{1}{2}$ -in.
0623/129536	5120	00-TT129536	Wrench, Open End, $\frac{1}{2}$ -in. x $\frac{1}{2}$ -in.

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cation No.

New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/129537	5120	00-TT129537	Wrench, Open End, $\frac{1}{2}$ -in. x $\frac{1}{2}$ -in.
0623/129848	5120	00-TT129848	Screwdriver
0623/135676	5120	00-308-6792	Handle
0623/135677	5120	00-TT135677	Wrench
0623/135678	5120	00-TT135678	Wrench
0623/152835	5120	00-596-4439	Wrench, $\frac{1}{2}$ -in. x $\frac{1}{2}$ -in.
0623/153673	5120	00-331-6077	Shaft Holder
0623/160396	5120	00-088-9393	Pliers
0623/6320	6110	00-224-5837	Screw
0623/6314	6110	00-224-5840	Assembly
0623/103182	5815	00-472-4881	Panel Assembly
0623/113777	5815	00-888-0796	Tool Kit
0623/122475	5815	00-025-3864	Screw
0623/124612	5815	00-594-5264	Screw
0623/125373	5815	00-193-2801	Screw, 6-56 Contact
0623/125814	5815	00-392-2329	Guide
0623/151038	5815	00-370-0743	Plate
0623/151930	5815	00-332-2051	Type Box Assy
0623/152089	5815	00-525-0974	Latch
0623/153037	5815	00-691-3161	Spring Compression
0623/153117	5815	00-315-3325	Cover
0623/153298	5815	00-679-8481	Eccentric
0623/153299	5815	00-679-8482	Bracket
0623/153397	5815	00-701-3944	Cover Arm
0623/153955	5815	00-709-9402	Lever
0623/154451	5815	00-325-1819	Bracket
0623/154486	5815	00-774-6394	Spring
0623/154626	5815	00-652-1585	Ring
0623/154789	5815	00-691-1005	Mod. Kit
0623/155750	5815	00-325-1873	Sleeve
0623/155752	5815	00-325-1875	Sleeve
0623/155753	5815	00-710-4083	Sleeve
0623/155969	5815	00-701-5474	Bracket
0623/156470	5815	00-771-9489	Guide
0623/156884	5815	00-652-1570	Ram Rocker
0623/158027	5815	00-325-1961	Gear Set
0623/158553	5815	00-706-1730	Shaft Distributor
0623/158701	5815	00-858-2814	Gear
0623/158829	5815	00-701-0479	Shaft Sensing Bevel Eccentric
0623/160627	5815	00-767-5166	Bushing
0623/161798	5815	00-766-1051	Guide W/Bracket
0623/161813	5815	00-858-3039	Gear Set
0623/161899	5815	00-772-3667	Spacer
0623/161946	5815	00-872-6717	Pad L/Side
0623/161947	5815	00-868-5914	Pad R/Side

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/161948	5815	00-868-5913	Pad Rear
0623/164024BR	5815	00-760-4344	Bracket
0623/176640	5815	00-034-7491	Guard
0623/25M	5815	00-412-5134	Magnet Assembly
0623/33RY	5815	00-819-1059	Relay
0623/167M	5815	00-412-9039	Magnet Coil, 105 Ohms
0623/191M	5815	00-TT191M	Coil Assembly
0623/198M	5815	00-TT198M	Magnet
0623/240M	5815	00-316-9694	Coil Magnet
0623/250M	5815	00-370-1258	Coil Magnet (Assembly)
0623/256M	5815	00-659-3068	Coil Assembly
0623/1010	5815	00-448-3568	Solonoid
0623/1046	5818	00-448-3585	Magnet Assembly
0623/1047	5815	00-412-5365	Screw
0623/1051	5815	00-448-3589	Screw 6-40
0623/1064	5305	00-206-3812	Shoulder
0623/1072	5815	00-448-3594	Screw 4-40 x $\frac{1}{2}$ FIL
0623/1073	5815	00-448-3595	Screw 6-32 x $\frac{1}{2}$ FIL
0623/1074	5815	00-448-1342	Screw 6-40
0623/1086	5815	00-448-3599	Thumb
0623/1093	5815	00-448-3600	Screw 6-40
0623/1096	5815	00-412-8938	Thumb
0623/1097	5815	00-370-0024	Screw
0623/1103	5815	00-448-3603	Screw 4 No. x $\frac{1}{2}$ Headless
0623/1109	5815	00-448-1344	Screw
0623/1118	5815	00-448-1346	Screw 4-36 x $\frac{1}{2}$
0623/1156	5815	00-TT1156	Screw
0623/1171	5815	00-370-0033	Screw $\frac{1}{8}$ x 40
0623/2410	5815	00-448-3659	Shoulder
0623/2415	5815	00-434-0313	Screw 10-32 and $\frac{1}{8}$ Headless
0623/2431	5815	00-125-4889	Screw
0623/2432	5815	00-125-4890	Screw
0623/2433	5815	00-125-4891	Screw 6-32 x $\frac{1}{8}$ FIL
0623/2434	5815	00-125-4892	Spring
0623/2435	5815	00-126-4153	Spring
0623/2451	5815	00-516-1790	Spring

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/2480	5815	00-126-4154	Spring Post
0623/2481	5815	00-350-2008	Washer
0623/2502	5815	00-126-4155	Strip
0623/2503	5815	00-126-4156	Cover Plate
0623/2504	5815	00-448-3660	Insulators
0623/2525	5815	00-126-4157	Key Lever
0623/2528	5815	00-126-4158	Spring Bar
0623/2566	5815	00-448-3664	Spacer
0623/2574	5815	00-126-4159	Upstop
0623/2610	5815	00-448-1359	Bell
0623/2623	5815	00-448-3665	Spring
0623/2658	5815	00-TT2658	Nut
0623/2666	5310	00-208-9482	Nut
0623/2727	5815	00-369-8724	Scale
0623/2760	5815	00-TT2760	Spring
0623/2836	5815	00-448-3669	Spring
0623/2856	5815	00-126-4163	Cutter
0623/2929	5815	00-332-2047	Bushing
0623/2980	5815	00-412-5431	Strap
0623/3106	5815	00-448-3672	Nut
0623/3131	5815	00-448-3675	Link
0623/3154	5815	00-448-1362	Shaft
0623/3226	5815	00-TT3226	Washer
0623/3292	5815	00-448-1363	Nut
0623/3298	5815	00-126-8130	Stop
0623/3448	5815	00-TT3448	Washer
0623/3458	5815	00-126-8141	Shim
0623/3475	5815	00-TT3475	Nut
0623/3600	5815	00-369-9336	Nut
0623/3603	5815	00-369-9230	Nut
0623/3604	5815	00-369-9231	Nut
0623/3607	5815	00-TT3607	Nut
0623/3608	5815	00-369-9400	Spring
0623/3610	5815	00-237-5851	Spring
0623/3618	5815	00-412-5515	Insulator
0623/3620	5815	00-369-9243	Washer
0623/3624	5815	00-369-9245	Washer
0623/3626	5815	00-126-3917	Foot Rubber
0623/3628	5815	00-369-9927	Bushing Outlet
0623/3637	5815	00-472-4894	Ball Bearing
0623/3870	5815	00-526-3859	Spring
0623/3949	5815	00-126-4173	Bushing
0623/4293	5815	00-448-3689	Insulator
0623/4323	5815	00-448-3690	Ball
0623/4326	5815	00-705-5010	Spring
0623/4586	5815	00-370-0093	Washer
0623/4702	5815	00-370-0352	Spring
0623/4703	5815	00-237-5884	Spring
0623/4705	5815	00-526-3836	Spring

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/4707	5815	00-TT4707	Washer
0623/4708	5815	00-351-7803	Spring
0623/4730	5815	00-448-1369	Spring
0623/4809	5815	00-530-3161	Washer
0623/4810	5815	00-126-4177	Wick
0623/4812	5815	00-126-4178	Wick
0623/4813	5815	00-126-4179	Wick
0623/4841	5815	00-369-9944	Scale
0623/4843	5815	00-412-9124	Stiffener
0623/4844	5815	00-412-9125	Stiffener
0623/4852	5815	00-370-0022	Plate
0623/4871	5305	00-448-3642	Screw
0623/4881	5815	00-126-4180	Stiffener
0623/5061	5815	00-448-3699	Ball Bearing
0623/5363	5815	00-448-3700	Spring
0623/5446	5815	00-448-3701	Screw
0623/5475	5815	00-369-9949	Nut
0623/5556	5815	00-391-9622	Top Plate
0623/5566	5815	00-128-6321	Collar
0623/57595	5815	00-TT57595	Specification
0623/57655	5815	00-TT57655	Specification
0623/57665	5815	00-TT57665	Specification
0623/57675	5815	00-TT57675	Specification
0623/57935	5815	00-TT57935	Specification
0623/59195	5815	00-TT59195	Specification
0623/6318	5815	00-126-4184	Contact
0623/6319	5815	00-126-4185	Block
0623/6320	6625	00-503-7163	Contact, Electrical
0623/6323	5815	00-448-3716	Spring
0623/6324	5815	00-568-2251	Wheel
0623/6330	5815	00-129-1808	Bearing
0623/6345	5815	00-369-9368	Nut
0623/6347	5815	00-448-1376	Screw
0623/6348	5815	00-448-1377	Screw
0623/6565	5815	00-771-9467	Screw
0623/6617	5815	00-448-3718	Tommy
0623/6685	5815	00-125-9740	Sword
0623/6686	5815	00-126-4193	Lever
0623/6689	5815	00-127-1934	Separator
0623/6690	5815	00-126-8700	Stripper Pull Bar
0623/6710	5815	00-TT6710	Armature
0623/6732	5815	00-448-1378	Plate
0623/6743	5815	00-126-4194	Arm
0623/6760	5815	00-313-8595	Shim
0623/6796	5815	00-370-1679	Screw
0623/6799	5815	00-370-1796	Screw
0623/6800	5815	00-448-3722	Screw
0623/6801	5815	00-448-3723	Screw

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/6805	5815	00-370-1570	Screw
0623/6811	5815	00-448-3727	Screw
0623/6814	5815	00-448-3728	Screw
0623/6825	5815	00-162-0729	Spring
0623/6826	5815	00-126-4196	Spring
0623/6827	5815	00-TT6827	Block
0623/6830	5815	00-126-4197	Latch
0623/6832	5815	00-126-4199	Disc
0623/6834	5815	00-126-4200	Bail
0623/6843	5815	00-129-1944	Bearing
0623/6850	5815	00-125-8171	Bell
0623/6859	5815	00-125-8172	Spacer
0623/6861	5815	00-TT6861	Washer
0623/6863	5815	00-125-8173	Disc
0623/6874	5815	00-125-8174	Rollers
0623/6909	5815	00-125-8178	Stop
0623/6915	5815	00-125-8179	Lever
0623/6916	5815	00-125-8180	Bar
0623/6917	5815	00-125-8181	Bar
0623/6918	5815	00-125-8182	Link
0623/6920	5815	00-125-5218	Post
0623/6940	5815	00-313-8616	Post
0623/6952	5815	00-448-3730	Sleeve
0623/6954	5815	00-125-9748	Strip
0623/6955	5815	00-125-5217	Stop
0623/6965	5815	00-340-3207	Rod
0623/6966	5815	00-126-4204	Screw
0623/6969	5815	00-126-4205	Bracket
0623/6970	5815	00-448-3731	Nut
0623/6971	5815	00-126-4206	Lever
0623/6972	5815	00-TT6972	Backstop
0623/6979	5815	00-126-4208	Hub
0623/6985	5815	00-126-4209	Lever
0623/6986	5815	00-448-1386	Sleeve
0623/6989	5815	00-125-9749	Lever
0623/6990	5815	00-448-3732	Screw
0623/6993	5815	00-448-3733	Spring
0623/6999	5815	00-126-4210	Post
0623/7007	5815	00-126-4211	Plunger
0623/7018	5815	00-126-4212	Bushing
0623/7020	5815	00-126-4213	Plunger
0623/7021	5815	00-126-4214	Bushing
0623/7022	5815	00-126-4215	Lever
0623/7023	5815	00-126-4216	Lever
0623/7024	5815	00-126-4217	Pawl
0623/7025	5815	00-126-4218	Pawl
0623/7027	5815	00-126-4219	Roller
0623/7029	5815	00-128-6322	Shaft
0623/7032	5815	00-126-4220	Pawl

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Old Identification No.	Group/Class	Catalogue No.	Description
0623/7033	5815	00-126-4221	Bracket
0623/7034	5815	00-126-4222	Bushing
0623/7035	5815	00-448-1389	Shaft
0623/7036	5815	00-128-6323	Collar
0623/7038	5815	00-448-1390	Shaft
0623/7039	5815	00-448-1391	Collar
0623/7042	5815	00-448-1392	Gear
0623/7044	5815	00-125-4893	Arm
0623/7067	5815	00-162-6309	Collar
0623/7068	5815	00-448-3739	Gear
0623/7070	5815	00-162-0730	Lever
0623/7078	5815	00-162-0731	Post
0623/7080	5815	00-162-0732	Loop
0623/7081	5815	00-126-8142	Spring
0623/7091	5815	00-448-1396	Insulator
0623/7093	5815	00-448-3743	Connection Strip
0623/7094	5815	00-448-3744	Spring
0623/7095	5815	00-125-4895	Plate
0623/7099	5815	00-448-1398	Screw
0623/7105	5815	00-125-4897	Target
0623/7188	5815	00-125-4899	Bracket
0623/7198	5815	00-125-4900	Guard
0623/7199	5815	00-125-4901	Pawl
0623/7257	5815	00-126-3872	Guard
0623/7287	5815	00-125-4862	Bar
0623/7290	5815	00-128-6324	Shaft
0623/7318	5815	00-125-4875	Lever
0623/7334	5815	00-125-4903	Post
0623/1166	5815	00-370-0030	Screw 4-36 x $\frac{1}{2}$ FIL
0623/1174	5815	00-369-9311	Screw 4-40 Shoulder
0623/1177	5815	00-370-0034	Screw
0623/1178	5815	00-369-9312	Screw 2-56 x $\frac{1}{8}$ FIL
0623/1189	5815	00-448-3626	Screw Shoulder 6-40
0623/1193	5815	00-448-3627	Screw 10-32 x $\frac{1}{2}$ FIL
0623/1207	5815	00-448-3629	Screw 4-46 x $\frac{1}{8}$ FIL
0623/1208	5815	00-448-3630	Screw TT
0623/1214	5815	00-370-1196	Screw TT
0623/1215	5815	00-370-0037	Screw TT
0623/1222	5815	00-369-9332	Screw 2-56 x $\frac{1}{8}$ FIL
0623/1223	5815	00-369-9333	Screw 10/32 x $\frac{1}{2}$ FIL

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Old Identification No.	Group/Class	Catalogue No.	Description
0623/1253	5815	00-448-1353	Screw 8-32 x $\frac{1}{2}$ Rd Hd
0623/1262	5815	00-448-3641	Screw
0623/1266	5815	00-448-3643	Screw 6-32 x $\frac{1}{8}$ Rd
0623/1268	5305	00-285-8651	Screw 6-40
0623/1272	5815	00-448-3646	Screw
0623/1291	5815	00-448-3648	Screw T/T
0623/1294	5815	00-448-3650	Screw T/T
0623/1297	5815	00-448-3651	Screw 6-40
0623/1298	5815	00-412-5393	Screw
0623/1303	5815	00-448-3653	Screw
0623/2084	5815	00-TT2084	Roller
0623/2220	5815	00-369-8723	Bracket
0623/2248	5815	00-369-9335	Pin
0623/2378	5815	00-125-4888	Spacer
0623/7336	5815	00-448-1401	Gear
0623/7337	5815	00-125-4904	Washer
0623/7338	5815	00-125-4905	Post
0623/7362	5815	00-448-3776	Glass
0623/7369	5815	00-412-5578	Collar
0623/7372	5815	00-125-4852	Bracket
0623/7373	5815	00-125-4906	Bracket
0623/7375	5815	00-128-6325	Shaft
0623/7377	5815	00-125-4907	Lock
0623/7380	5815	00-129-1945	Transmitting Assembly
0623/7381	5815	00-369-8738	Contact Assembly
0623/7382	5815	00-125-4943	Bracket
0623/7383	5815	00-125-3394	Fitting
0623/7385	5815	00-568-2259	Bracket
0623/7386	5815	00-369-9378	Stud
0623/7387	5815	00-162-0733	Brace
0623/7388	5815	00-125-3390	Shaft
0623/7389	5815	00-448-3779	Clutch
0623/7391	5815	00-448-3781	Gear
0623/7394	5815	00-112-8551	Bar
0623/7395	5815	00-125-5705	Plate
0623/7396	5815	00-125-3392	Bracket
0623/7397	5815	00-125-3393	Bracket
0623/7398	5815	00-125-5709	Plate
0623/7399	5815	00-125-4870	Backstop
0623/7402	5815	00-171-3246	Spring
0623/7403	5815	00-503-7340	Spring
0623/7404	5815	00-125-4816	Lever
0623/7406	5815	00-128-6326	Shaft
0623/7407	5815	00-125-4908	Collar
0623/7408	5815	00-448-1402	Gear
0623/7409	5815	00-125-4872	Lever

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/7415	5815	00-448-3806	Nut
0623/7421	5815	00-125-4873	Type Bar 1
0623/7422	5815	00-125-4871	Type Bar 2
0623/7423	5815	00-125-4869	Type Bar 3
0623/7424	5815	00-125-3380	Type Bar 4
0623/7425	5815	00-125-3382	Type Bar 5
0623/7426	5815	00-125-3383	Type Bar 6
0623/7427	5815	00-125-3384	Type Bar 7
0623/7428	5815	00-125-3385	Type Bar 8
0623/7429	5815	00-112-8560	Type Bar 9
0623/7430	5815	00-112-8561	Type Bar 10
0623/7431	5815	00-112-8548	Type Bar 11
0623/7432	5815	00-125-3386	Type Bar 12
0623/7433	5815	00-125-3387	Type Bar 13
0623/7434	5815	00-125-9734	Type Bar 14
0623/7435	5815	00-125-4914	Type Bar 15
0623/7435	5815	00-125-4915	Type Bar 16
0623/7437	5815	00-125-4916	Type Bar 17
0623/7438	5815	00-125-4917	Type Bar 18
0623/7439	5815	00-125-4909	Type Bar 19
0623/7440	5815	00-125-4910	Type Bar 20
0623/7441	5815	00-125-4911	Type Bar 21
0623/7442	5815	00-125-4912	Type Bar 22
0623/7443	5815	00-125-4913	Type Bar 23
0623/7444	5815	00-125-3416	Type Bar 24
0623/7445	5815	00-125-3417	Type Bar 25
0623/7446	5815	00-125-3418	Type Bar 26
0623/7447	5815	00-125-3419	Type Bar 27
0623/7448	5815	00-125-3420	Type Bar 28
0623/7449	5815	00-TT7449	Bushing
0623/7559	5815	00-448-1405	Spring
0623/7602	5815	00-448-3935	Spring
0623/7603	5815	00-526-1650	Spring
0623/7607	5815	00-128-6329	Collar
0623/7610	5815	00-125-4851	Bracket
0623/7612	5815	00-448-3939	Spring
0623/7614	5815	00-526-3860	Spring
0623/7615	5815	00-568-9845	Spring
0623/7618	5815	00-526-3865	Spring
0623/7631	5815	00-369-9386	Guard
0623/7634	5815	00-448-3947	Spring
0623/7654	5815	00-125-9766	Shim
0623/7655	5815	00-448-1406	Spring
0623/7659	5815	00-448-3950	Spring
0623/7661	5815	00-125-4849	Lever
0623/7678	5815	00-448-3952	Screw
0623/7679	5815	00-313-8668	Roller
0623/7824	5815	00-125-4919	Wick
0623/7825	5815	00-526-3864	Spring

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/7826	5815	00-125-4920	Rubber
0623/7885	5815	00-125-4826	Type Bar 29
0623/8094	5815	00-369-9387	Brush
0623/8097	5815	00-125-8184	Sleeve
0623/8157	5815	00-125-8185	Lever
0623/8158	5815	00-125-8186	Lever
0623/8170	5815	00-125-8187	Pad
0623/8222	5815	00-129-1946	Strip
0623/8330	5815	00-285-8091	Washer
0623/8333	5815	00-448-4054	Screw
0623/8362	5815	00-125-9761	Post
0623/8448	5815	00-127-1937	Lever
0623/8457	5815	00-125-3414	Bar
0623/8458	5815	00-125-3391	Bar
0623/8461	5815	00-125-3403	Post
0623/8462	5815	00-125-3402	Lever
0623/8465	5815	00-125-3409	Bracket
0623/8474	5815	00-314-0741	Plunger
0623/8485	5815	00-126-8148	Bracket
0623/8486	5815	00-126-8225	Post
0623/8488	5815	00-448-1412	Bushing
0623/8489	5815	00-126-4226	Pawl
0623/8491	5815	00-126-4227	Strip
0623/8493	5815	00-126-4228	Pawl
0623/8494	5815	00-126-4229	Spring
0623/8497	5815	00-391-9648	Hammer
0623/8498	5815	00-568-2237	Hammer
0623/8499	5815	00-126-4231	Shaft
0623/8501	5815	00-126-4232	Gear
0623/8504	5815	00-126-4233	Post
0623/8505	5815	00-136-4234	Post
0623/8507	5815	00-125-8191	Sleeve
0623/8508	5815	00-369-9493	Armature
0623/8509	5815	00-125-8193	Bail
0623/8510	5815	00-125-8192	Clamp
0623/8511	5815	00-125-8194	Lever
0623/8514	5815	00-125-8196	Plate
0623/8515	5815	00-125-8374	Strip
0623/8543	5815	00-448-4088	Screw
0623/8567	5815	00-370-1923	Washer
0623/8669	5815	00-448-1414	Screw
0623/8671	5815	00-448-4095	Screw
0623/8676BA	5815	00-160-7168	Base
0623/8686	5815	00-TT8686	Filler Wood
0623/8778	5815	00-125-5767	Cover
0623/8883	5815	00-369-9494	Block
0623/8884	5815	00-448-4108	Terminal Block
0623/8990	5815	00-125-5770	Retainer
0623/9177	5815	00-369-9496	Stop

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/9182	5815	00-128-6334	Shaft
0623/9203	5815	00-125-8378	Bracket
0623/9209	5815	00-125-8379	Lever
0623/9210	5815	00-125-8380	Lever
0623/9211	5815	00-125-8381	Lever
0623/9558	5815	00-412-5667	Contact
0623/9559	5815	00-412-5668	Spring
0623/9575	5815	00-369-9499	Screw
0623/13859	5815	00-TT13859	Lever
0623/22015	5815	00-370-0092	Spring
0623/22228	5815	00-412-5683	Post
0623/22746	5815	00-412-5684	Spring
0623/32464	5815	00-448-3676	Nut
0623/33038	5815	00-526-3845	Springs
0623/33765	5815	00-TT33765	Washer
0623/33828	5815	00-412-5708	Spring
0623/35137	5815	00-TT35137	Spring
0623/35140	5815	00-TT35140	Clip
0623/35503	5815	00-448-3683	Foot
0623/35551	5815	00-448-1419	Screw
0623/35826	5815	00-369-9506	Washer
0623/35858	5815	00-448-3685	Ball
0623/41341	5815	00-125-8383	Handle
0623/41342	5815	00-448-3688	Screw
0623/41382	5815	00-369-9507	Spring
0623/41543	5815	00-369-9508	Bearing
0623/41720	5815	00-193-2800	Contact
0623/41732	5815	00-129-1812	Plates
0623/41733	5970	00-962-2757	Insulators
0623/41974	5815	00-434-0314	Spring
0623/42420	5815	00-TT42420	Spring
0623/42823	5815	00-066-9337	Washers
0623/42827	5305	00-298-2485	Screw
0623/43954	5815	00-448-3691	Gong
0623/44035	5815	00-448-1438	Screw
0623/45027	5815	00-370-0097	Spring
0623/45104	5815	00-448-3693	Spring
0623/45815	5815	00-186-7499	Washer
0623/46042	5815	00-125-5772	Collar
0623/46092	5815	00-448-3694	Nut
0623/47024	5815	00-314-0775	Washer
0623/49054	5815	00-448-1474	Screw
0623/49120	5815	00-412-5745	Screw
0623/49313	5815	00-370-1171	Spring
0623/49420	5815	00-524-0230	Spring
0623/49644	5815	00-412-8759	Spring
0623/55005C	5815	00-314-0481	Screw
0623/55063	5815	00-448-3707	Washer
0623/55090	5815	00-526-3856	Spring

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/55669	5815	00-448-3713	Spring
0623/58221	5815	00-448-3714	Screw
0623/60669	5815	00-448-1541	Spring
0623/62135	5815	00-448-1542	Screw
0623/70177	5815	00-448-3735	Screw
0623/70324	5815	00-127-1938	Bearing
0623/70388	5815	00-412-5841	Spring
0623/70497	5815	00-448-3737	Nut
0623/70529	5815	00-126-8706	Stiffener
0623/70593	5815	00-448-3738	Screw
0623/70707	5815	00-126-8707	Bracket
0623/70785	5815	00-126-8260	Spring
0623/70794	5815	00-160-0125	Lever
0623/70796	5815	00-125-8398	Cup
0623/70803	5815	00-448-3740	Screw
0623/70815	5815	00-391-9672	Gear
0623/70816	5815	00-448-1545	Gear
0623/70823	5815	00-448-3741	Screw
0623/70838	5815	00-448-3742	Bearing
0623/70871	5815	00-125-8396	Spring
0623/70872	5815	00-369-9550	Brush Holder
0623/70873	5815	00-503-7565	Cap
0623/70878	5815	00-412-5851	Spring
0623/70887	5815	00-369-9552	Nut
0623/71155	5815	00-473-8378	Screw
0623/71161	5815	00-127-1939	Bushing
0623/71189	5815	00-125-6898	Retainer
0623/71438	5815	00-369-9553	Rail
0623/71444	5815	00-448-1552	Bushing
0623/71449	5815	00-125-4945	Lever
0623/71505	5815	00-391-9680	Wick
0623/71646	5815	00-449-0376	Nut
0623/71670	5815	00-448-3749	Resistance
0623/71672	5815	00-448-3750	Clamp
0623/71675	5815	00-TT71675	Spring
0623/71681	5815	00-356-3062	Spool
0623/71686	5815	00-126-8714	Lever
0623/71695	5815	00-448-1557	Bushing
0623/71696	5815	00-314-1026	Scale
0623/71697	5815	00-314-1027	Plate
0623/71826	5815	00-314-1028	Stud
0623/71829	5815	00-126-8717	Scale
0623/71840	5815	00-TT71840	Nut
0623/71969	5815	00-126-8705	Arm
0623/71970	5815	00-126-8720	Arm
0623/71974	5815	00-237-8633	Gear
0623/71976	5815	00-127-6402	Pawl
0623/71980	5815	00-126-8721	Roller
0623/71981	5815	00-448-1559	Rivet

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New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/71983	5815	00-448-1560	Bushing
0623/71998	5815	00-126-8641	Ring
0623/72003	5815	00-370-0038	Bender
0623/72023	5815	00-126-8646	Plate
0623/72069	5815	00-126-8619	Shim
0623/72074	5815	00-448-3752	Brace
0623/72137	5815	00-127-1953	Shim
0623/72138	5815	00-127-1954	Slide
0623/72139	5815	00-127-1955	Plate
0623/72140	5815	00-127-1956	Plate
0623/72144	5815	00-448-1564	Pin
0623/72263	5815	00-127-6392	Spring
0623/72450	5815	00-448-3753	Spring
0623/72468	5815	00-448-3754	Spring
0623/72472	5815	00-448-3755	Shim
0623/72481	5815	00-369-9563	Connector
0623/72501	5815	00-448-1569	Shaft
0623/72513	5815	00-127-1961	Sleeve
0623/72514	5815	00-448-3759	Spring
0623/72516	5815	00-127-1962	Disc
0623/72521	5815	00-127-6389	Wick
0623/72522	5815	00-127-1963	Wick
0623/72539	5815	00-127-6382	Disc
0623/72545	5815	00-314-1077	Post
0623/72562	5815	00-448-3762	Gear
0623/72563	5815	00-448-3763	Washer
0623/72574	5815	00-448-3764	Tool
0623/72575	5815	00-391-9693	Tool
0623/72576	5815	00-128-6350	Shaft
0623/72581	5815	00-448-3765	Gauge
0623/72635	5815	00-391-9695	Shim
0623/72643	5815	00-448-1573	Screw
0623/72644	5815	00-369-9568	Bearing
0623/72835	5815	00-448-3766	Contact
0623/72885	5815	00-527-1140	Spring
0623/72983	5815	00-127-2026	Lever
0623/72984	5815	00-127-2027	Lever
0623/72985	5815	00-127-6381	Lever
0623/73008	5815	00-314-1847	Washer
0623/73018	5815	00-TT73018	Fitting
0623/73035	5815	00-392-0362	Spring
0623/73106	5815	00-332-7389	Gear
0623/73107	5815	00-448-3769	Bushing
0623/73176	5815	00-369-8746	Switch
0623/73180	5815	00-TT73180	Switch
0623/73181	5815	00-309-9574	Switch
0623/73197	5815	00-448-3770	Resistor
0623/73231	5815	00-127-1987	Retainer
0623/73236	5815	00-127-1988	Frame

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cation No.

New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/73237	5815	00-369-9577	Shield
0623/73239	5815	00-448-1579	Coil
0623/73240	5815	00-448-1580	Cone
0623/73241	5815	00-448-1581	Coil
0623/73243	5815	00-127-1989	Wedge
0623/73244	5815	00-448-1583	Screw
0623/73374	5815	00-412-5982	Spacer
0623/73392	5815	00-448-1585	Bushing
0623/73408	5815	00-412-5988	Magnifier
0623/73409	5815	00-TT73409	Brush
0623/73410	5815	00-412-5989	Screwdriver
0623/73481	5815	00-370-1778	Lever
0623/73520	5815	00-640-9184	Wick
0623/73595	5815	00-448-1586	Stud
0623/73611	5815	00-127-2061	Wick
0623/73641	5815	00-TT73641	Guide
0623/73705	5815	00-448-3777	Block
0623/73829	5815	00-127-2070	Plate
0623/74001	5815	00-448-3783	Shaft
0623/74005	5815	00-448-3784	Shaft
0623/74006	5815	00-662-6701	Bushing
0623/74008	5815	00-127-2030	Roller
0623/74009	5815	00-127-2073	Pawl
0623/74010	5815	00-127-2072	Roller
0623/74013	5815	00-127-2075	Blade
0623/74015	5815	00-448-3787	Spring
0623/74016	5815	00-127-2074	Post
0623/74018	5815	00-448-3789	Rod
0623/74019	5815	00-127-2077	Plate
0623/74021	5815	00-127-2076	Crank
0623/74022	5815	00-127-2057	Crank
0623/74023	5815	00-127-2056	Crank
0623/74024	5815	00-127-6320	Crank
0623/74025	5815	00-127-2079	Crank
0623/74026	5815	00-127-6319	Collar
0623/74028	5815	00-127-2025	Cylinder
0623/74031	5815	00-127-2078	Bracket
0623/74039	5815	00-127-2080	Lever
0623/74040	5815	00-127-2083	Lever
0623/74041	5815	00-127-2082	Basket
0623/74042	5815	00-127-2085	Vane
0623/74043	5815	00-127-2084	Vane
0623/74044	5815	00-127-2089	Vane
0623/74045	5815	00-127-2088	Vane
0623/74046	5815	00-127-2091	Vane
0623/74050	5815	00-127-2090	Cam
0623/74051	5815	00-127-2093	Lever
0623/74056	5815	00-125-4946	Plate
0623/74058	5815	00-125-4947	Lever

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cation No.

New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/74061	5815	00-125-4948	Disc
0623/74066	5815	00-125-4949	Bracket
0623/74068	5815	00-125-4950	Bar
0623/74069	5815	00-126-7823	Bar
0623/74071	5815	00-126-7824	Fork
0623/74072	5815	00-126-7825	Lever
0623/74078	5815	00-126-7826	Link
0623/74079	5815	00-126-7827	Bail
0623/74080	5815	00-126-7828	Link
0623/74081	5815	00-126-7829	Bar
0623/74082	5815	00-448-3797	Lever
0623/74083	5815	00-126-7830	Rod
0623/74085	5815	00-TT74085	Washer
0623/74089	5815	00-126-7831	Arm
0623/74095	5815	00-126-7832	Collar
0623/74096	5815	00-125-8227	Pawl
0623/74097	5815	00-125-8228	Pawl
0623/74098	5815	00-448-3799	Shaft
0623/74099	5815	00-448-3800	Ring
0623/74100	5815	00-448-3801	Washer
0623/74101	5815	00-391-9711	Plug
0623/74107	5815	00-125-8230	Bearing
0623/74109	5815	00-125-8231	Lever
0623/74111	5815	00-448-1593	Shaft
0623/74119	5815	00-448-3803	Bail
0623/74121	5815	00-125-8233	Latch
0623/74126	5815	00-125-8235	Support
0623/74127	5815	00-125-8236	Lever
0623/74128	5815	00-126-8156	Lever
0623/74129	5815	00-126-8157	Lever
0623/74130	5815	00-126-8158	Lever
0623/74131	5815	00-126-8159	Lever
0623/74132	5815	00-129-1952	Gear
0623/74133	5815	00-126-8160	Lever
0623/74134	5815	00-126-8161	Lever
0623/74135	5815	00-126-8162	Lever
0623/74136	5815	00-126-8163	Lever
0623/74137	5815	00-126-8164	Lever
0623/74140	5815	00-125-9768	Cam
0623/74142	5815	00-125-4952	Head
0623/74143	5815	00-448-3805	Retainer
0623/74150	5815	00-693-4703	Lever
0623/74151	5815	00-254-8840	Gear
0623/74152	5815	00-209-9473	Spring
0623/74153	5815	00-125-4959	Bearing
0623/74154	5815	00-391-9713	Gear
0623/74156	5815	00-448-3809	Screw
0623/74158	5815	00-125-4956	Blade
0623/74160	5815	00-125-4958	Bar

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cation No.

New Identification No.

Old Identifi- cation No.	Group/ Class	Catalogue No.	Description
0623/74161	5815	00-125-4957	Lock
0623/74162	5815	00-125-5198	Lock
0623/74163	5815	00-125-5199	Bar
0623/74164	5815	00-448-3810	Shaft
0623/74166	5815	00-125-5201	Disc
0623/74169	5815	00-125-5187	Clamp
0623/74173	5815	00-125-5188	Bar
0623/74174	5815	00-125-5190	Bar
0623/74179	5815	00-448-3814	Shaft
0623/74180	5815	00-125-8289	Bar
0623/74181	5815	00-125-8240	Bar
0623/74182	5815	00-125-8241	Bar
0623/74183	5815	00-125-8242	Bar
0623/74185	5815	00-126-8165	Bar
0623/74186	5815	00-126-8166	Roller
0623/74187	5815	00-126-8167	Guide
0623/74190	5815	00-125-8169	Clutch
0623/74191	5815	00-126-8170	Latch
0623/74192	5815	00-448-3815	Gear
0623/74195	5815	00-126-8172	Roller
0623/74197	5815	00-126-8174	Roller
0623/74198	5815	00-129-1953	Cone
0623/74199	5815	00-448-3816	Bushing
0623/74200	5815	00-126-8175	Track
0623/74202	5815	00-126-8176	Type Bar
0623/74203	5815	00-126-8177	Type Bar
0623/74204	5815	00-126-8178	Type Bar
0623/74205	5815	00-126-8179	Type Bar
0623/74206	5815	00-126-8180	Type Bar
0623/74207	5815	00-126-8181	Type Bar
0623/74208	5815	00-126-8182	Type Bar
0623/74209	5815	00-126-8183	Type Bar
0623/74210	5815	00-126-7833	Type Bar
0623/74211	5815	00-126-7834	Type Bar
0623/74212	5815	00-126-7835	Type Bar
0623/74213	5815	00-126-7836	Type Bar
0623/74214	5815	00-126-7837	Type Bar
0623/74215	5815	00-126-7838	Type Bar
0623/74216	5815	00-126-7839	Type Bar
0623/74217	5815	00-126-7840	Type Bar
0623/74218	5815	00-126-7841	Type Bar
0623/74219	5815	00-301-8482	Type Bar
0623/74220	5815	00-369-9587	Type Bar
0623/74221	5815	00-126-8184	Type Bar
0623/74222	5815	00-392-0366	Type Bar
0623/74223	5815	00-126-7846	Type Bar
0623/74224	5815	00-448-3817	Type Bar
0623/74225	5815	00-448-3818	Type Bar
0623/74226	5815	00-391-9716	Type Bar

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New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74227	5815	00-126-7848	Type Bar
0623/74228	5815	00-126-7849	Type Bar
0623/74230	5815	00-448-3820	Clutch
0623/74239	5815	00-448-3821	Bushing
0623/74240	5815	00-126-7850	Roller
0623/74241	5815	00-448-3822	Clutch
0623/74243	5815	00-126-7851	Roller
0623/74244	5815	00-125-8244	Bail
0623/74247	5815	00-314-1203	Post
0623/74248	5815	00-125-5796	Stud
0623/74251	5815	00-125-5797	Lever
0623/74254	5815	00-125-5191	Bar
0623/74255	5815	00-126-7852	Guide
0623/74259	5815	00-128-6353	Hub
0623/74264	5815	00-448-3825	Shaft
0623/74271	5815	00-125-5194	Washer
0623/74272	5815	00-448-3826	Spring
0623/74275	5815	00-128-6354	Shaft
0623/74276	5815	00-369-9591	Hearing
0623/74278	5815	00-125-5195	Lever
0623/74279	5815	00-125-5196	Strip
0623/74286	5815	00-127-2092	Bail
0623/74292	5815	00-448-3827	Screw
0623/74294	5815	00-125-4960	Plate
0623/74297	5815	00-125-4963	Plate
0623/74304	5815	00-125-5800	Pallet
0623/74305	5815	00-126-8185	Pallet
0623/74306	5815	00-126-8186	Pallet
0623/74307	5815	00-126-8261	Pallet
0623/74308	5815	00-126-8187	Pallet
0623/74309	5815	00-126-8188	Pallet
0623/74310	5815	00-126-8189	Pallet
0623/74311	5815	00-126-8190	Pallet
0623/74312	5815	00-126-8191	Pallet
0623/74313	5815	00-126-8262	Pallet
0623/74314	5815	00-126-8263	Pallet
0623/74315	5815	00-125-9769	Pallet
0623/74316	5815	00-125-5176	Pallet
0623/74317	5815	00-125-5177	Pallet
0623/74319	5815	00-125-5179	Pallet
0623/74320	5815	00-125-5180	Pallet
0623/74321	5815	00-125-5181	Pallet
0623/74323	5815	00-125-5183	Pallet
0623/74326	5815	00-126-8193	Pallet
0623/74327	5815	00-126-8194	Pallet
0623/74328	5815	00-126-8195	Pallet
0623/74329	5815	00-128-6355	Shaft
0623/74332	5815	00-126-8196	Roller
0623/74335	5815	00-126-8197	Lever

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74337	5815	00-391-9720	Roller
0623/74338	5815	00-126-8199	Crank
0623/74339	5815	00-126-8200	Bar
0623/74358	5815	00-356-3065	Bracket
0623/74359	5815	00-129-1954	Draw
0623/74361	5815	00-448-3832	Screw
0623/74363	5815	00-125-8247	Bail
0623/74366	5815	00-448-3833	Rack
0623/74367	5815	00-448-3834	Screw
0623/74368	5815	00-448-3835	Roller
0623/74371	5815	00-125-8248	Ribbon Shield
0623/74372	5815	00-125-8249	Link
0623/74373	5815	00-125-8250	Segment
0623/74374	5815	00-125-8251	Plunger
0623/74376	5815	00-125-4965	Bracket
0623/74378	5815	00-125-4966	Pawl
0623/74379	5815	00-125-4967	Bracket
0623/74380	5815	00-128-6327	Shaft
0623/74381	5815	00-125-4968	Pawl
0623/74383	5815	00-125-5725	Bearing
0623/74384	5815	00-448-3836	Gear
0623/74385	5815	00-448-3837	Gear
0623/74390	5815	00-356-3066	Bail
0623/74392	5815	00-154-0173	Bracket
0623/74394	5815	00-154-0172	Shaft
0623/74401	5815	00-125-5734	Lever
0623/74407	5815	00-125-3398	Arm
0623/74408	5815	00-391-9724	Post
0623/74410	5815	00-125-8255	Frame
0623/74412	5815	00-125-8256	Bushing
0623/74414	5815	00-125-8258	Guide
0623/74415	5815	00-125-8259	Bracket
0623/74416	5815	00-125-8260	Lever
0623/74417	5815	00-125-8261	Lever
0623/74421	5815	00-125-8263	Bracket
0623/74430	5815	00-125-8266	Bracket
0623/74432	5815	00-125-8267	Plate
0623/74435	5815	00-125-8268	Bracket
0623/74437	5815	00-125-8269	Bar
0623/74438	5815	00-125-8270	Platen
0623/74446	5815	00-125-8272	Ratchet
0623/74447	5815	00-125-8273	Ratchet
0623/74451	5815	00-448-3842	Shaft
0623/74452	5815	00-448-3843	Shaft
0623/74454	5815	00-125-5804	Cam
0623/74455	5815	00-125-5805	Chute
0623/74457	5815	00-125-5806	Guide
0623/74460	5815	00-448-3844	Shaft
0623/74463	5815	00-125-5807	Lever

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74465	5815	00-125-5808	Lever
0623/74467	5815	00-125-5809	Pawl
0623/74469	5815	00-125-4969	Guide
0623/74470	5815	00-125-4970	Guide
0623/74473	5815	00-125-4971	Bracket
0623/74476	5815	00-125-5736	Guide
0623/74478	5815	00-125-5738	Lever
0623/74479	5815	00-448-3845	Bushing
0623/74480	5815	00-448-3846	Retainer
0623/74481	5815	00-125-5739	Roller
0623/74490	5815	00-125-5700	Roller
0623/74491	5815	00-125-4972	Roller
0623/74493	5815	00-125-4973	Spacer
0623/74494	5815	00-126-8201	Spacer
0623/74499	5815	00-126-8203	Bearing
0623/74500	5815	00-125-3129	Bearing
0623/74501	5815	00-125-5722	Bearing
0623/74502	5815	00-129-1955	Clutch
0623/74503	5815	00-125-3434	Bail
0623/74505	5815	00-448-3848	Pinion
0623/74507	5815	00-125-5810	Lever
0623/74508	5815	00-125-5212	Drum
0623/74513	5815	00-125-5231	Rod
0623/74514	5815	00-448-3850	Screw
0623/74519	5815	00-126-8204	Shaft
0623/74521	5815	00-448-3852	Gear
0623/74523	5815	00-126-8205	Spacer Bar
0623/74526	5815	00-128-6328	Collar
0623/74528	5815	00-125-5811	Arm
0623/74529	5815	00-125-5812	Bracket
0623/74530	5816	00-448-3854	Separator
0623/74531	5815	00-125-5813	Cover
0623/74534	5815	00-127-1139	Bearing
0623/74536	5815	00-448-3855	Screw
0623/74539	5815	00-125-5816	Plate
0623/74547	5815	00-129-1814	Collar
0623/74552	5815	00-125-5819	Frame
0623/74553	5815	00-125-5820	Wick
0623/74554	5815	00-125-5821	Post
0623/74557	5815	00-369-9601	Lamp
0623/74559	5815	00-448-3857	Shaft
0623/74561	5815	00-369-8755	Post
0623/74562	5815	00-448-3858	Screw
0623/74563	5815	00-125-5823	Lever
0623/74564	5815	00-125-5824	Lever
0623/74569	5815	00-369-9352	Block
0623/74581	5815	00-125-5825	Bar
0623/74582	5815	00-125-4974	Bar
0623/74583	5815	00-125-4975	Bar

New Identification No.

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74584	5815	00-127-6390	Bar
0623/74585	5815	00-125-4976	Bar
0623/74589	5815	00-448-3863	Block
0623/74590	5815	00-125-4977	Plate
0623/74595	5815	00-448-3864	Gear
0623/74596	5815	00-448-3865	Gear
0623/74601	5815	00-125-4981	Bar
0623/74604	5815	00-125-5826	Rod
0623/74605	5815	00-125-5827	Bracket
0623/74609	5815	00-128-6351	Shaft
0623/74610	5815	00-128-6352	Shaft
0623/74620	5815	00-369-8761	Switch
0623/74621	5815	00-126-8265	Stud
0623/74628	5815	00-221-5666	Block
0623/74637	5815	00-600-0809	Spring
0623/74651	5815	00-125-6895	Type Bar
0623/74667	5815	00-125-5836	Type Bar
0623/74668	5815	00-125-5837	Type Bar
0623/74684	5815	00-193-2799	Contact Spring
0623/74685	5815	00-503-7301	Contact Spring
0623/74686	5815	00-125-5839	Vane Shift 6
0623/74687	5815	00-448-3869	Screw
0623/74688	5815	00-125-8102	Lever
0623/74689	5815	00-391-9733	Post
0623/74691	5815	00-370-0003	Resistor
0623/74692	5815	00-125-8104	Post
0623/74693	5815	00-125-8105	Post
0623/74694	5815	00-125-8106	Arm
0623/74695	5815	00-125-8107	Sleeve
0623/74700	5815	00-448-3870	Spring
0623/74701	5815	00-526-3854	Spring
0623/74703	5815	00-448-3873	Spring
0623/74704	5815	00-526-3844	Spring
0623/74705	5815	00-448-3875	Spring
0623/74706	5815	00-448-3876	Spring
0623/74707	5815	00-448-3877	Spring
0623/74708	5815	00-448-3878	Spring
0623/74709	5815	00-448-3879	Spring
0623/74710	5815	00-526-1665	Spring
0623/74712	5815	00-526-3852	Spring
0623/74716	5815	00-448-3882	Bushing
0623/74718	5815	00-125-8108	Bushing
0623/74720	5815	00-448-3883	Screw
0623/74721	5815	00-527-1172	Spring
0623/74726	5815	00-125-4984	Extension
0623/74727	5815	00-448-3886	Terminal Lug
0623/74728	5815	00-448-3887	Terminal
0623/74736	5815	00-125-8109	Bracket
0623/74737	5815	00-125-8110	Lever

New Identification No.

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/74744	5815	00-TT74744	Guard
0623/74749	5815	00-125-8113	Plate
0623/74751	5815	00-125-8114	Paint
0623/74754	5815	00-125-8115	Spring
0623/74755	5815	00-125-8116	Wick
0623/74756	5815	00-125-8117	Wick
0623/74757	5815	00-125-8118	Bracket
0623/74759	5815	00-125-8119	Strip
0623/74760	5815	00-526-3853	Spring
0623/74762	5815	00-125-8120	Key Lever Assembly
0623/74779	5815	00-TT74779	Rivet
0623/74783	5815	00-125-8131	Lever Assembly
0623/74785	5815	00-126-8020	Roller
0623/74799	5815	00-125-8130	Plate
0623/74800	5815	00-TT74800	Washer
0623/74801	5815	00-125-8132	Disc
0623/74802	5815	00-448-3894	Spring
0623/74806	5815	00-125-8134	Strip
0623/74808	5815	00-448-3897	Bushing
0623/74820	5815	00-125-8135	Platen
0623/74821	5815	00-448-3898	Resistor
0623/74838	5815	00-129-1815	Cap
0623/74871	5815	00-356-3067	Wrench
0623/74878	5815	00-448-3901	Spring
0623/74879	5815	00-126-8210	Spring
0623/74882	5815	00-526-1680	Spring
0623/74885	5815	00-126-8026	Handle
0623/74889	5815	00-126-8027	Block
0623/74890	5815	00-513-7405	Spring
0623/74891	5815	00-126-8028	Shim
0623/74892	5815	00-527-0689	Shim
0623/74903	5815	00-448-3905	Hand Wheel
0623/74904	5815	00-448-3906	Shaft
0623/74909	5815	00-125-8282	Frame
0623/74916	5815	00-125-5815	Hub
0623/74917	5815	00-126-8030	Retainer
0623/74932	5815	00-126-8033	Lever
0623/74933	5815	00-126-8034	Stripper
0623/74949	5815	00-126-8035	Lever
0623/74961	5815	00-448-3910	Spring
0623/74962	5815	00-448-3911	Spring
0623/74964	5815	00-314-0677	Spring
0623/74990	5815	00-448-3916	Insulator
0623/74992	5815	00-448-3917	Bushing
0623/74994	5815	00-125-4986	Plate
0623/74995	5815	00-125-4987	Retainer
0623/75087	5815	00-448-3918	Screw
0623/75221	5815	00-412-6094	Spring

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/75226	5815	00-125-4989	Wick
0623/75229	5815	00-448-3919	Spring
0623/75231	5815	00-391-9757	Bushing
0623/75400	5815	00-448-3920	Screw
0623/75429	5815	00-412-6101	Screw
0623/75430	5815	00-412-6102	Strap
0623/75432	5815	00-125-4992	Bracket
0623/75436	5815	00-369-9608	Resistor
0623/75517	5815	00-125-4995	Guide
0623/75606	5815	00-527-1163	Spring
0623/75607	5815	00-448-3926	Washer
0623/75687	5815	00-125-8284	Bearing
0623/75765	5815	00-448-3927	Spring
0623/75906	5815	00-TT75906	Gauge
0623/76084	5815	00-448-3937	Washer
0623/76085	5815	00-129-1817	Disc
0623/76086	5815	00-356-3068	Spring
0623/76087	5815	00-448-3938	Nut
0623/76114	5815	00-448-1616	Screw
0623/76156	5815	00-448-1617	Washer
0623/76167	5305	00-286-3841	Screw
0623/76217	5815	00-125-5164	Bracket
0623/76275	5815	00-125-5165	Clamp
0623/76284	5815	00-391-9766	Strap (Assembly)
0623/76299	5815	00-370-1048	Spring
0623/76379	5815	00-205-4600	Spring
0623/76422	5815	00-525-0962	Spring
0623/76465	5815	00-TT76465	Bushing
0623/76474	5815	00-316-9698	Nut
0623/76790	5815	00-126-8036	Bushing
0623/76800	5815	00-TT76800	Spring
0623/77001	5815	00-125-4996	Arm
0623/77004	5815	00-127-2017	Bracket
0623/77007	5815	00-412-6174	Lever
0623/77012	5815	00-448-3953	Nut
0623/77018	5815	00-125-4997	Disc
0623/77020	5815	00-125-4999	Plate
0623/77021	5815	00-125-5167	Bracket
0623/77024	5815	00-160-3923	Gate
0623/77028	5815	00-126-1630	Bracket
0623/77030	5815	00-391-9773	Spring Assembly
0623/77031	5815	00-125-5168	Bracket
0623/77033	5815	00-125-5169	Guide
0623/77034	5815	00-448-3954	Gear
0623/77035	5815	00-125-5170	Bracket
0623/77036	5815	00-448-3955	Gear
0623/77041	5815	00-TT77041	Spring
0623/77046	5815	00-125-5171	Strip
0623/77048	5815	00-369-9354	Bushing

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/77049	5815	00-125-5172	Lever
0623/77050	5815	00-125-5173	Arm
0623/77051	5815	00-125-5174	Spring
0623/77054	5815	00-125-5158	Pin
0623/77056	5815	00-125-5159	Strip
0623/77058	5815	00-125-5160	Hub
0623/77063	5815	00-448-3957	Screw
0623/77068	5815	00-TT77068	Plate
0623/77070	5815	00-126-8271	Disc
0623/77079	5815	00-448-3948	Stop
0623/77082	5815	00-160-0030	Bracket
0623/77128	5815	00-TT77128	Washer
0623/77130	5815	00-TT77130	Guard
0623/77138	5815	00-448-3962	Shaft
0623/77140	5815	00-448-3963	Nut
0623/77142	5815	00-126-8272	Bail
0623/77143	5815	00-126-8273	Armature
0623/77146	5815	00-125-8405	Strip
0623/77221	5815	00-412-6216	Bracket
0623/77351	5815	00-412-6219	Washer
0623/77451	5815	00-125-5116	Stop
0623/77618	5815	00-448-3967	Case for small tools
0623/77649	5815	00-391-9783	Capacitor
0623/77650AA	5815	00-TT77650AA	Guard
0623/77650BA	5815	00-126-8374	Guard
0623/77920	5815	00-448-1640	Screw
0623/77953	5815	00-TT77953	Motor
0623/77983	5815	00-125-8408	Punch
0623/78025	5815	00-448-3969	Screw
0623/78028	5815	00-448-3970	Screw
0623/78075	5815	00-369-9341	Screw
0623/78029	5815	00-127-2021	Wick
0623/78103	5815	00-448-1643	Screw
0623/78163	5815	00-125-5060	Post
0623/78174	5815	00-369-9621	Magnet
0623/78175	5815	00-127-2043	Type Bar
0623/78180	5815	00-125-5001	Disc
0623/78239	5815	00-TT78239	Motor Armature
0623/78240	5815	00-278-2037	Field Core and Coil
0623/78241	5815	00-448-1645	Coil
0623/78244	5815	00-223-6435	Fitting Lubrication
0623/78287	5815	00-160-0111	Collar
0623/78301	5815	00-369-9173	Screw
0623/78399	5815	00-127-2131	Brush
0623/78400	5815	00-126-8037	Brush
0623/78403	5815	00-230-6036	Brush

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/78419	5815	00-448-1649	Screw
0623/78437	5815	00-448-1650	Insulator
0623/78439	5815	00-160-0121	Shell
0623/78443	5815	00-391-9793	Disc
0623/78451	5815	00-160-0120	Cover
0623/78474	5815	00-448-1652	Screw
0623/78509	5815	00-448-3973	Gear
0623/78510	5815	00-448-3974	Gear
0623/78533	5815	00-448-1653	Spring
0623/78550	5815	00-129-1967	Guide
0623/78551	5815	00-448-3975	Shaft
0623/78552	5815	00-126-8278	Plate
0623/78553	5815	00-125-8411	Guide
0623/78597	5815	00-448-3977	Screw
0623/78675	5815	00-448-3978	Cord
0623/78677	5815	00-164-6286	Cable Assembly
0623/78720	5815	00-126-8282	Ratchet Assembly
0623/78723	5815	00-125-8417	Post
0623/78724	5815	00-126-8283	Pawl
0623/78725	5815	00-391-9797	Pawl
0623/78726	5815	00-125-8418	Latch
0623/78727	5815	00-126-8285	Bracket
0623/78728	5815	00-126-8286	Bracket
0623/78732	5815	00-126-8287	Bracket
0623/78733	5815	00-125-8419	Lever
0623/78734	5815	00-125-8420	Cam
0623/78735	5815	00-125-8421	Lever
0623/78736	5815	00-126-8288	Bracket
0623/78743	5815	00-125-8422	Cylinder
0623/78744	5815	00-568-2245	Piston
0623/78746	5815	00-568-2239	Spring
0623/78747	5815	00-448-3984	Plug
0623/78755	5815	00-448-3986	Insulator
0623/78758	5815	00-448-3987	Contact
0623/78946	5815	00-391-9803	Key Top
0623/78947	5815	00-391-9804	Key Top
0623/78948	5815	00-324-8373	Key Top
0623/78949	5815	00-125-5097	Key Top
0623/78950	5815	00-391-9807	Key Top
0623/78951	5815	00-391-9808	Key Top
0623/78952	5815	00-391-9809	Key Top
0623/78953	5815	00-391-9810	Key Top
0623/78954	5815	00-391-9811	Key Top
0623/78956	5815	00-391-9813	Key Top
0623/78957	5815	00-125-5071	Key Top
0623/78958	5815	00-391-9815	Key Top
0623/78959	5815	00-391-9816	Key Top
0623/78960	5815	00-125-5073	Key Top
0623/78961	5815	00-125-5074	Key Top

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/78962	5815	00-369-8788	Key Top
0623/78963	5815	00-126-8212	Key Top
0623/78964	5815	00-391-9820	Key Top
0623/78965	5815	00-391-9821	Key Top
0623/78966	5815	00-391-9822	Key Top
0623/78967	5815	00-391-9823	Key Top
0623/78968	5815	00-391-9824	Key Top
0623/78969	5815	00-391-9825	Key Top
0623/78970	5815	00-391-9826	Key Top
0623/78971	5815	00-126-8220	Key Top
0623/78972	5815	00-125-5075	Key Top
0623/78973	5815	00-125-8291	Key Top
0623/78976	5815	00-125-8292	Key Top
0623/78978	5815	00-125-8293	Key Top
0623/78980	5815	00-125-8295	Key Top
0623/78984	5815	00-314-1238	Key Top
0623/78987	5815	00-313-9089	Key Top
0623/79012	5815	00-412-6315	Insulator
0623/79513	5815	00-126-8038	Plate
0623/79523	5815	00-448-3994	Screw
0623/79890	5815	00-412-6320	Screw
0623/80119	5815	00-126-8039	Rod
0623/80120	5815	00-126-8222	Bracket
0623/80121	5815	00-126-8223	Spacer
0623/80177	5815	00-448-1671	Insulator
0623/80178	5815	00-448-1672	Insulator
0623/80180	5815	00-448-1673	Spring
0623/80255	5815	00-369-8796	Screw
0623/80283	5815	00-369-8797	Screw
0623/80299	5815	00-TT80299	Spring
0623/80335	5815	00-125-5009	Plate
0623/80336	5815	00-369-8798	Insulator
0623/80337	5815	00-125-9777	Bracket
0623/80338	5815	00-125-5010	Bracket
0623/80340	5815	00-125-5011	Plate
0623/80352	5815	00-356-3070	Governor
0623/80358	5815	00-369-9628	Bearing
0623/80392	5815	00-448-4005	Spring
0623/80400	5815	00-125-8301	Bracket
0623/80402	5815	00-448-1685	Screw
0623/80444	5815	00-448-4007	Screw
0623/80466	5815	00-129-1901	Handle
0623/80467	5305	00-298-2487	Screw
0623/80471	5815	00-268-7160	Spring
0623/80473AA	5815	00-370-1433	Cover
0623/80473BA	5815	00-TT80473BA	Cover
0623/80478	5815	00-125-8308	Post
0623/80489	5815	00-314-1354	Lever
0623/80509	5815	00-126-7679	Post

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/80510	5815	00-126-7680	Hammer
0623/80511	5815	00-128-6332	Shaft
0623/80516	5815	00-391-9842	Pin
0623/80551	5815	00-391-9843	Keytop
0623/80552	5815	00-313-9132	Keytop
0623/80635	5815	00-314-0522	Bushing
0623/80724	5815	00-126-7729	Lever
0623/80727	5815	00-448-1693	Screw
0623/80728	5815	00-369-9952	Nut
0623/80757	5815	00-448-4011	Screw
0623/80826	5815	00-356-3071	Bracket
0623/80827	6240	00-237-7872	Lamp
0623/80845	5815	00-369-8809	Screw
0623/80848	5815	00-526-3857	Spring
0623/80854	5815	00-448-1696	Screw
0623/80869AA	5815	00-125-9812	Rail
0623/80870AA	5815	00-TT80870	Rail
0623/80875	5815	00-126-8290	Arm Assembly
0623/80876	5815	00-370-0007	Strip
0623/80957	5815	00-448-4017	Screw
0623/80985	5815	00-448-4018	Screw
0623/81000	5815	00-TT81000	Meter
0623/81433	5815	00-126-8291	Shim
0623/81501	5815	00-448-1709	Cone
0623/81514	5815	00-TT81514	Plate
0623/81524	5815	00-126-7857	Finger
0623/81532	5815	00-126-7858	Bumper
0623/81553	5815	00-126-7859	Pawl
0623/81593	5815	00-448-4021	Shaft
0623/81596	5815	00-448-4022	Screw
0623/81597	5815	00-126-7860	Bracket
0623/81598	5815	00-448-4023	Bushing
0623/81599	5815	00-448-4024	Bushing
0623/81601	5815	00-126-7861	Strip
0623/81603	5815	00-126-7862	Cutter
0623/81605	5815	00-126-7863	Cover
0623/81609	5815	00-125-8309	Guard
0623/81638	5815	00-128-6333	Collar
0623/81657	5815	00-126-8292	Shim
0623/81721	5815	00-369-9439	Contact
0623/81724	5815	00-448-4025	Contact
0623/81726	5815	00-448-4026	Terminal
0623/81731	5815	00-369-9440	Spring
0623/81734	5815	00-126-7864	Plate
0623/81747	5815	00-448-4027	Block
0623/81764	5815	00-255-6053	Glass
0623/81766	5815	00-448-4029	Ring
0623/81772	5815	00-129-1824	Bushing
0623/81778	5815	00-369-8816	Screw

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/81793	5815	00-126-7869	Plate
0623/81822	5815	00-369-8817	Coil
0623/81823	5815	00-412-6449	Screw
0623/81889	5815	00-125-8314	Bracket
0623/81893	5815	00-125-8315	Bracket
0623/81895	5815	00-125-8316	Post
0623/81936	5815	00-125-8317	Lever
0623/81956	5815	00-125-8318	Bail
0623/82177	5815	00-125-8326	Pallet
0623/82249	5815	00-370-0353	Washer
0623/82279	5815	00-448-4036	Clip
0623/82281	5815	00-125-8333	Guide
0623/82392	5815	00-125-9781	Shim
0623/82399	5815	00-125-9784	Pad
0623/82401	5815	00-125-9786	Pad
0623/82402	5815	00-125-9787	Pad
0623/82403	5815	00-125-9788	Pad
0623/82414	5815	00-448-4038	Knob
0623/82415	5815	00-129-1981	Spring
0623/82440	5815	00-448-4040	Screw
0623/82463	5815	00-205-4593	Spring
0623/82487	5815	00-TT82487	Spring
0623/82489	5815	00-448-1732	Strip
0623/82490	5815	00-448-1733	Plate
0623/82505	5815	00-412-6547	Screw
0623/82547	5815	00-448-4045	Plate
0623/82713	5815	00-448-1739	Screw
0623/82714	5815	00-369-8823	Motor
0623/82720	5815	00-448-4047	Screw
0623/82725	5815	00-129-1982	Spring
0623/82727	5815	00-369-9450	Spring
0623/82728	5815	00-127-6378	Plate
0623/82729	5815	00-127-6354	Plate
0623/82733	5815	00-126-8227	Cap
0623/82751	5815	00-126-8230	Pallet
0623/82769	5815	00-370-1911	Strap
0623/82787	5815	00-160-0056	Spring
0623/82788	5815	00-448-4048	Spring
0623/82832	5815	00-412-6652	Washer
0623/82860	5815	00-434-0317	Spring
0623/82861	5815	00-412-6659	Spring
0623/82898	5815	00-412-6682	Pallet
0623/82917	5815	00-351-7818	Bracket Assembly
0623/82918	5815	00-126-8294	Bracket
0623/82919	5815	00-448-1742	Bearing
0623/82920	5815	00-448-1743	Bushing
0623/82921	5815	00-126-8295	Lever
0623/82922	5815	00-126-8296	Plate
0623/82923	5815	00-126-8297	Pawl

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/82924	5815	00-126-8298	Plate
0623/82925	5815	00-126-8299	Lever
0623/82927	5815	00-193-2810	Contact
0623/82930	5815	00-193-2808	Contact
0623/82963	5815	00-126-8300	Extension
0623/82964	5815	00-448-4052	Screw
0623/82965	5815	00-369-9453	Spring
0623/82966	5815	00-126-8301	Bar
0623/82986	5815	00-448-4053	Screw
0623/82999	5815	00-129-1984	Spring
0623/83307	5815	00-127-6375	Arm
0623/83308	5815	00-127-6376	Arm
0623/83309	5815	00-127-6373	Arm
0623/83310	5815	00-127-6374	Arm
0623/83311	5815	00-127-6371	Arm
0623/83312	5815	00-127-6372	Arm
0623/83314	5815	00-412-6699	Bar
0623/83315	5815	00-127-2013	Bar
0623/83317	5815	00-127-2011	Bar
0623/83318	5815	00-127-2008	Bar
0623/83319	5815	00-127-2009	Bar
0623/83320	5815	00-127-2006	Bar
0623/83321	5815	00-127-2007	Bar
0623/83322	5815	00-127-6369	Bar
0623/83323	5815	00-127-6370	Bar
0623/83324	5815	00-127-2004	Bar
0623/83341	5815	00-TT83341	Loop
0623/83342	5815	00-127-6367	Plate
0623/83343	5815	00-127-6368	Rod
0623/83345	5815	00-127-2000	Bracket
0623/83346	5815	00-127-2001	Lever
0623/83348	5815	00-127-6365	Lever
0623/83349	5815	00-127-6366	Bracket
0623/83353	5815	00-127-1998	Cover
0623/83354	5815	00-127-1999	Rod
0623/83361	5815	00-127-1992	Extension
0623/83362	5815	00-127-1933	Bracket
0623/83363	5815	00-127-1994	Lever
0623/83364	5815	00-127-1995	Lever
0623/83365	5815	00-127-1996	Lever
0623/83366	5815	00-TT83366	Lever
0623/83370	5815	00-127-1997	Extension
0623/83372	5815	00-127-6359	Guide
0623/83374	5815	00-127-6360	Lever
0623/83376	5815	00-448-4057	Rod
0623/83379	5815	00-127-1990	Cover
0623/83384	5815	00-127-6351	Pawl
0623/83385	5815	00-117-0916	Cam
0623/83386	5815	00-127-6349	Lever

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/83390	5815	00-127-6350	Spring
0623/83394AA	5815	00-126-9801	Cover
0623/83412	5815	00-407-5908	Stud
0623/83413	5815	00-127-1986	Stud
0623/83421	5815	00-126-8675	Pad
0623/83424	5815	00-126-8686	Guide
0623/83427	5815	00-126-8687	Glass
0623/83561	5815	00-412-6725	Washer
0623/83572AA	5815	00-125-9805	Plate
0623/83718	5815	00-127-1985	Vane
0623/83740	5815	00-448-1750	Collar
0623/83871	5815	00-448-1753	Screw
0623/83874	5815	00-448-1754	Screw
0623/83876	5815	00-126-8678	Bracket
0623/83877	5815	00-448-1755	Spring
0623/83884	5815	00-448-4060	Screw
0623/83885	5815	00-448-4061	Nut
0623/83901	5815	00-126-8682	Plate
0623/83902	5815	00-412-6731	Keypop
0623/83919	5815	00-126-8683	Shim
0623/83920	5815	00-391-9873	Separator
0623/83926	5815	00-126-8658	Indicator
0623/83976	5815	00-127-6406	Crank
0623/83977	5815	00-448-4063	Clip
0623/84020	5815	00-448-4066	Tools
0623/84023	5815	00-233-3765	Spring
0623/84047	5815	00-127-6405	Stop
0623/84056	5815	00-448-1761	Stiffener
0623/84057	5815	00-448-1762	Terminal
0623/84058	5815	00-TT84058	Plate
0623/84082	5815	00-448-4067	Screw
0623/84114	5815	00-126-8600	Yoke
0623/84115	5815	00-127-2177	Armature
0623/84351	5815	00-127-2063	Stop
0623/84354	5815	00-314-1859	Washer
0623/84384	5815	00-160-0033	Spacer
0623/84575	5815	00-448-4068	Spring
0623/84663	5815	00-127-1167	Bracket
0623/84666	5815	00-503-7272	Contact
0623/84674	5815	00-TT84674	Contact
0623/84701	5815	00-TT84701	Lever
0623/84702	5815	00-TT84702	Bracket
0623/84705	5815	00-502-9532	Contact
0623/84757	5815	00-TT84757	Contact
0623/84758	5815	00-448-4074	Spring
0623/84759	5815	00-127-1902	Guard
0623/84770BA	5815	00-125-5115	Base
0623/84892	5815	00-448-4076	Stiffener
0623/84894	5815	00-127-2146	Arm

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/84895	5815	00-448-4077	Spring
0623/84896	5815	00-448-4078	Screw
0623/84911	5815	00-127-2148	Bracket
0623/84990	5815	00-448-4082	Screw
0623/85019	5815	00-127-2156	Roller
0623/85020	5815	00-448-4083	Screw
0623/85098	5815	00-412-6898	Bar
0623/85354	5815	00-127-2157	Plate
0623/85355	5815	00-127-2158	Guide
0623/85364	5815	00-127-2159	Lever
0623/85376	5815	00-448-4085	Lever
0623/85378	5815	00-127-2161	Pin
0623/85384	5815	00-448-4086	Bushing
0623/85407	5815	00-370-0098	Spring
0623/85471	5815	00-448-4089	Screw
0623/85559	5815	00-370-0044	Washer
0623/85779	5815	00-127-2162	Plate
0623/85816	5815	00-448-1782	Wick
0623/85936	5815	00-412-6924	Post
0623/85957	5815	00-412-4618	Washer
0623/85976	5815	00-127-2164	Spacer
0623/86008	5815	00-TT86008	Screw
0623/86079	5815	00-448-4090	Washer
0623/86112	5815	00-448-1784	Plate
0623/86117	5815	00-127-2168	Lever
0623/86118	5815	00-127-2169	Lever
0623/86119	5815	00-127-2167	Lever
0623/86120	5815	00-127-2170	Lever
0623/86121	5815	00-127-2171	Lever
0623/86122	5815	00-127-7028	Lever
0623/86123	5815	00-127-2172	Lever
0623/86124	5815	00-127-2173	Pawl
0623/86146	5815	00-127-2048	Drawer
0623/86148	5815	00-127-2051	Chute
0623/86150	5815	00-129-1985	Spring
0623/86153	5815	00-127-2053	Bracket
0623/86158	5815	00-127-2055	Cam Sleeve
0623/86172	5815	00-126-8584	Arm
0623/86177	5815	00-126-8588	Bracket
0623/86184	5815	00-126-8592	Frame
0623/86189	5815	00-448-1790	Cap
0623/86194	5815	00-448-1791	Screw
0623/86209	5815	00-126-8594	Post
0623/86283	5815	00-412-6931	Spring
0623/86304	5815	00-567-2208	Spring
0623/86341	5815	00-448-1805	Screw
0623/86506	5815	00-126-8599	Post
0623/86531	5815	00-448-1897	Screw
0623/86561	5815	00-448-1808	Clamp

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/86634	5815	00-TT86634	Stiffener
0623/86710	5815	00-369-8852	Oiler
0623/86720	5815	00-370-0101	Post
0623/86736	5815	00-412-6959	Plate
0623/86740	5815	00-448-1814	Screw
0623/86742	5815	00-448-1815	Nut
0623/86774	5305	00-286-8987	Screw
0623/86802	5815	00-TT86802	Screw
0623/86811	5815	00-127-2182	Guard
0623/86815	5815	00-126-2921	Arm
0623/86816	5815	00-127-2184	Bushing
0623/86819	5815	00-127-2185	Collar
0623/86835	5815	00-448-1819	Spring
0623/86850	5815	00-369-9659	Screw
0623/86865	5815	00-127-2187	Chute
0623/86868	5815	00-448-1820	Bushing
0623/86869	5815	00-127-2190	Post
0623/86872	5815	00-TT86872	Stop
0623/86873	5815	00-448-4098	Spring
0623/86918	5815	00-391-9945	Plate
0623/86920	5815	00-127-2189	Wheel
0623/86953	5815	00-127-7030	Bracket
0623/87334	5815	00-412-7002	Washer
0623/87385	5815	00-TT87385	Strap
0623/87402	5815	00-526-3842	Spring
0623/87509	5815	00-127-2191	Post
0623/87636	5305	00-530-9828	Screw
0623/87638	5815	00-TT87638	Screw
0623/87645	5815	00-533-4337	Bracket
0623/87646	5815	00-412-7022	Bail
0623/87648	5815	00-127-6334	Lever
0623/87650	5815	00-448-1832	Worm Assembly
0623/87651	5815	00-448-1833	Shaft
0623/87652	5815	00-127-2126	Bracket
0623/87654	5815	00-127-2128	Pawl
0623/87698	5815	00-238-9987	Stone
0623/87851	5815	00-TT87851	Bushing
0623/87855	5815	00-127-2127	Bracket
0623/87936	5815	00-127-2125	Bracket
0623/87993	5815	00-448-4107	Screw
0623/88455	5815	00-314-1867	Washer
0623/88780	5815	00-705-5011	Screw
0623/88802	5815	00-412-7049	Screw
0623/88924	5815	00-127-2121	Foot
0623/88925	5815	00-127-2114	Foot
0623/88975	5815	00-356-3924	Gun
0623/88993	5815	00-369-8864	Burnisher
0623/89070	5815	00-127-2106	Lever
0623/89071	5815	00-448-1840	Bearing

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/89072	5815	00-448-4112	Spring
0623/89073	5815	00-127-2107	Extension
0623/89074	5815	00-160-0059	Stud
0623/89076	5815	00-127-2104	Bracket
0623/89080	5815	00-391-9990	Guard
0623/89086	5815	00-448-1841	Tape Reel
0623/89087	5815	00-127-2097	Case
0623/89088	5815	00-127-2098	Filler
0623/89089	5815	00-127-2099	Retainer
0623/89096	5815	00-TT89096	Washer
0623/89097	5815	00-127-2100	Lever
0623/89233	5815	00-127-6335	Bar
0623/89305	5815	00-412-7074	Screw
0623/89330	5815	00-448-4113	Spring
0623/89404	5815	00-TT89404	Keytop
0623/89422	5815	00-127-6338	Keytop
0623/89481	5815	00-448-4118	Shaft
0623/89482	5815	00-448-4119	Collar
0623/89484	5815	00-160-0060	Clamp
0623/89486	5815	00-525-0792	Stiffener
0623/89493	8815	00-126-8606	Loop
0623/89494	5815	00-126-8607	Lever
0623/89495	5815	00-126-8608	Bar
0623/89496	5815	00-448-1846	Bar
0623/89498	5815	00-126-8609	Lever
0623/89499	5815	00-126-8610	Guide
0623/89500	5815	00-392-0009	Punch
0623/89881	5815	00-127-2086	Wick
0623/89896	5815	00-448-4120	Oiler
0623/89906	5815	00-126-8615	Post
0623/89917	5815	00-448-1848	Screw
0623/89925	5815	00-412-7119	Terminal
0623/89963	5815	00-126-8616	Eccentric
0623/89974	5815	00-314-0712	Contact
0623/90024	5815	00-160-0061	Retainer
0623/90031	5815	00-693-4713	Contact
0623/90043	5815	00-126-7890	Bracket
0623/90052	5815	00-369-8877	Screw
0623/90069	5815	00-126-7896	Post
0623/90088	5815	00-126-7900	Latch
0623/90096	5815	00-448-1862	Washer
0623/90117	5815	00-448-1868	Screw
0623/90139	5815	00-126-7911	Tube
0623/90260	5815	00-448-4122	Spring
0623/90265	5815	00-160-0063	Screw
0623/90287	5815	00-TT90287	Lever
0623/90361	5815	00-370-0106	Washer
0623/90421	5815	00-126-7925	Collar
0623/90436	5815	00-126-7926	Wick

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/90438	5815	00-392-0017	Button
0623/90504	5815	00-370-0105	Washer
0623/90505	5815	00-126-7931	Lever
0623/90507	5815	00-126-7932	Plate
0623/90508	5815	00-126-7933	Arm
0623/90509	5815	00-126-7934	Plate
0623/90512	5815	00-126-7935	Bracket
0623/90513	5815	00-448-4126	Screw
0623/90516	5815	00-126-7936	Arm
0623/90517	5815	00-448-4129	Spring
0623/90518	5815	00-126-7937	Wedge
0623/90519	5815	00-448-4130	Screw
0623/90520	5815	00-126-7930	Lever
0623/90524	5815	00-448-1881	Screw
0623/90535	5815	00-412-7188	Washer
0623/90539	5815	00-448-1883	Bushing
0623/90560	5815	00-316-9697	Washer
0623/90573	5815	00-370-0104	Spring
0623/90599	5815	00-370-0845	Shim
0623/90606	5815	00-448-1885	Spring
0623/90714	5815	00-895-3581	Washer
0623/90752	5815	00-448-4131	Washer
0623/90760	5815	00-126-7953	Scale
0623/90774	5815	00-126-7955	Bellcrank
0623/90775	5815	00-126-7956	Scale
0623/90783	5815	00-356-3075	Tool (Wrench)
0623/90789	5815	00-412-7210	Washer
0623/90790	5815	00-TT90790	Washer
0623/90819	5815	00-370-0103	Washer
0623/90952	5815	00-448-1891	Screw
0623/91003	5815	00-126-8344	Extension
0623/91117	5815	00-448-4132	File
0623/91120	5815	00-448-4133	Spring
0623/91175	5815	00-448-4136	Roller
0623/91198	5815	00-126-3939	Wick
0623/91205	5815	00-125-9796	Detent
0623/91217	5815	00-125-9802	Tape Reel Containers
0623/91218	5815	00-125-9803	Plate
0623/91228	5815	00-314-0392	Strap
0623/91229	5815	00-412-7262	Connector
0623/91230	5815	00-412-7263	Terminal
0623/91231	5815	00-TT91231	Terminal
0623/91266	5815	00-125-9809	Disc
0623/91277	5815	00-127-1054	Cable Assembly
0623/91540	5815	00-126-8050	Counter
0623/91543	5815	00-125-9813	Bracket
0623/91544	5815	00-125-9814	Lever
0623/91545	5815	00-392-0409	Extension

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/91546	5815	00-699-1449	Screw
0623/91547	5815	00-126-7629	Bracket
0623/91548	5815	00-448-4138	Bushing
0623/91550	5815	00-126-7630	Lever
0623/91554	5815	00-126-7631	Bar
0623/91555	5815	00-126-7632	Bracket
0623/91556	5815	00-126-7633	Lever
0623/91558	5815	00-126-7634	Guide
0623/91559	5815	00-126-7635	Lever
0623/91568	5815	00-448-4140	Contact
0623/91570	5815	00-314-1505	Contact
0623/91571	5815	00-314-1506	Contact
0623/91573	5815	00-448-4141	Contact
0623/91575	5815	00-125-9815	Cover
0623/91610	5815	00-TT91610	Pallet
0623/91617	5815	00-160-0064	Shim
0623/91636	5815	00-369-9682	Post
0623/91658	5815	00-126-3950	Bracket
0623/91684	5815	00-448-1911	Nut
0623/91733	5815	00-126-3952	Bracket
0623/91734	5815	00-160-0116	Bracket
0623/91739	5815	00-448-4145	Strip
0623/91751	5815	00-TT91751	Holder, Copy
0623/91753	5815	00-126-3957	Bracket
0623/91754	5815	00-126-3958	Guard
0623/91755	5815	00-TT91755	Switch
0623/91757	5815	00-126-3959	Strip
0623/91765	5815	00-412-7302	Spacer
0623/91832	5815	00-126-3961	Spindle
0623/91898	5815	00-129-9963	Cable Assembly
0623/91899	5815	00-160-0126	Segment
0623/91904	5815	00-370-0102	Washer
0623/91968	5815	00-369-9690	Screwdriver
0623/92146	5815	00-313-5349	Nut
0623/92151	5815	00-TT92151	Connector
0623/92169	5815	00-448-1918	Bracket
0623/92170	5815	00-126-8253	Bracket
0623/92171	5815	00-126-8254	Bracket
0623/92204	5815	00-412-7335	Clamp
0623/92216	5815	00-448-4147	Filter
0623/92217	5815	00-369-9705	Filter
0623/92258	5815	00-126-8256	Keypad
0623/92260	5815	00-412-7344	Washer
0623/92264	5815	00-412-7345	Screw
0623/92273	5815	00-568-2267	Core
0623/92364	5815	00-129-1839	Plate
0623/92389	5815	00-448-1934	Screw
0623/92511	5815	00-125-9816	Roller
0623/92668	5815	00-126-8059	Post

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/92685	5815	00-516-7745	Bushing
0623/92748	5815	00-448-4155	Screw
0623/93012	5815	00-TT93012	Transmitter Cover
0623/93075	5815	00-448-4158	Ring
0623/93108	5815	00-314-1873	Washer
0623/93118	5815	00-370-0096	Washer
0623/93167	5815	00-125-9853	Arm
0623/93168	5815	00-125-9854	Arm
0623/93356	5815	00-448-1962	Washer
0623/93507	5815	00-412-7437	Screw
0623/93729	5815	00-125-4807	Wick
0623/93737	5815	00-448-1964	Shim
0623/93754	5815	00-356-3077	Rail
0623/93755	5815	00-125-4796	Roller
0623/93756	5815	00-125-4794	Housing
0623/93757	5815	00-448-4159	Bearing
0623/93822	5815	00-392-0046	Gauge .004-in.
0623/93824	5815	00-533-4358	Gauge .025-in.
0623/93834	5815	00-TT93834	Glass
0623/93839	5815	00-125-4797	Rail
0623/93847	5815	00-407-5958	Foot
0623/93879	5815	00-568-1056	Washer
0623/93880	5815	00-126-3962	Plate
0623/93891	5815	00-125-4840	Guard
0623/93899	5815	00-448-1970	Spring
0623/93984	5815	00-412-7498	Washer
0623/94009	5815	00-369-9732	Switch
0623/94015	5815	00-125-4838	Bracket
0623/94086	5815	00-125-4835	Bracket
0623/94087	5815	00-125-4836	Arm
0623/94088	5815	00-125-4839	Rod
0623/94617	5815	00-153-3697	Plate
0623/94644	5815	00-369-9960	Screwdriver
0623/94645	5815	00-448-4163	Screwdriver
0623/94646	5815	00-TT94646	Stick
0623/94647	5815	00-369-9999	Screwdriver
0623/94665	5815	00-448-1979	Screw
0623/94669	5815	00-448-1980	Screw
0623/94674	5815	00-412-7558	Washer
0623/94693	5815	00-125-4853	Wick
0623/95030	5815	00-412-4689	Nut
0623/95065	5815	00-448-1987	Strap
0623/95338	5815	00-TT95338	Pallet
0623/95366	5815	00-392-0069	Wrench
0623/95367	5815	00-392-0070	Wrench
0623/95368	5815	00-369-9961	Screwdriver
0623/95378	5815	00-603-8342	Spring
0623/95380	5815	00-448-1996	Mod Kit
0623/95401	5815	00-125-5024	Link

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/95402	5815	00-125-5025	Link
0623/95403	5815	00-125-5026	Link
0623/95404	5815	00-125-5726	Link
0623/95405	5815	00-125-5727	Link
0623/95406	5815	00-125-5728	Bellcrank
0623/95409	5815	00-125-4842	Lever
0623/95411	5815	00-126-7966	Bellcrank
0623/95412	5815	00-126-3963	Bellcrank
0623/95413	5815	00-125-4844	Bellcrank
0623/95414	5815	00-125-4843	Bellcrank
0623/95415	5815	00-125-4845	Bellcrank
0623/95416	5815	00-448-4169	Bushing
0623/95417	5815	00-125-4822	Separator
0623/95421	5815	00-125-4866	Bellcrank
0623/95422	5815	00-125-4867	Bellcrank
0623/95423	5815	00-125-4827	Bellcrank
0623/95424	5815	00-125-4821	Bellcrank
0623/95425	5815	00-125-4820	Bellcrank
0623/95426	5815	00-125-4819	Spacer
0623/95429	5815	00-129-1906	Bracket
0623/95430	5815	00-448-1998	Spring
0623/95436	5815	00-125-4800	Separator
0623/95440	5815	00-125-4801	Plate
0623/95441	5815	00-125-4802	Bail
0623/95442	5305	00-125-4803	Stud
0623/95443	5815	00-448-2000	Screw
0623/95444	5815	00-126-3964	Finger
0623/95445	5815	00-125-4804	Retainer
0623/95446	5815	00-126-7967	Pawl
0623/95447	5815	00-125-4806	Bushing
0623/95448	5815	00-125-5027	Post
0623/95449	5815	00-125-5029	Guide
0623/95452	5815	00-125-5028	Plate
0623/95455	5815	00-125-5031	Stripper
0623/95457	5815	00-125-5032	Retainer
0623/95458	5815	00-125-5033	Holder
0623/95460	5815	00-125-9675	Cam
0623/95461	5815	00-129-1848	Bar
0623/95462	5815	00-125-5034	Bar
0623/95463	5815	00-129-1849	Bar
0623/95464	5815	00-129-1850	Bar
0623/95465	5815	00-129-1851	Bar
0623/95466	5815	00-126-7968	Plate
0623/95467	5815	00-126-5035	Lever
0623/95471	5815	00-125-9676	Lever
0623/95472	5815	00-125-3427	Spacer
0623/95473	5815	00-392-0073	Collar
0623/95474	5815	00-125-3425	Shaft
0623/95475	5815	00-392-0074	Collar

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/95477	5815	00-125-3423	Block
0623/95479	5815	00-125-3422	Shaft
0623/95483	5815	00-112-8559	Post
0623/95484	5815	00-125-3378	Arm
0623/95487	5815	00-268-1213	Screw
0623/95488	5815	00-125-3379	Link
0623/95489	5815	00-125-3381	Link
0623/95490	5815	00-448-2003	Bushing
0623/95491	5815	00-126-7969	Spacer
0623/95492	5815	00-448-2004	Bushing
0623/95493	5815	00-314-1608	Roller
0623/95496	5815	00-547-3760	Spring
0623/95636	5815	00-412-7594	Screw
0623/95827	5815	00-370-0356	Bushing
0623/95936	5815	00-370-0048	Coil
0623/95953	5815	00-448-4172	Shim
0623/95954	5815	00-126-7973	Plate
0623/95960	5815	00-125-4850	Gauge
0623/96257BK	5815	00-TT96257BK	Wire
0623/96485	5815	00-412-7634	Bushing
0623/96506	5815	00-128-6335	Shaft
0623/96507	5815	00-125-4846	Lever
0623/96508	5815	00-412-7635	Stop
0623/96559	5815	00-126-3967	Pallet
0623/96646	5815	00-412-7659	Screw
0623/96763	5815	00-448-4178	Shim
0623/96764	5815	00-448-4179	Shim
0623/96765	5815	00-448-4180	Shim
0623/96781	5815	00-412-7683	Resistor
0623/96837	5815	00-127-1970	Bearing
0623/96838	5815	00-125-5038	Plate
0623/96839	5815	00-126-3968	Platform
0623/96840	5815	00-125-5039	Bracket
0623/96841	5815	00-112-8550	Bracket
0623/96842	5815	00-125-3411	Chute
0623/96843	5815	00-448-4181	Screw
0623/96844	5815	00-125-3410	Bracket
0623/96845	5815	00-125-3413	Collar
0623/96846	5815	00-448-2020	Guide
0623/96871	5815	00-125-8348	Lever
0623/96872	5815	00-125-8349	Roller
0623/96873	5815	00-125-8350	Journal
0623/96874	5815	00-412-7691	Shim
0623/96889	5815	00-392-0094	Post
0623/97143	5815	00-369-9756	Connector
0623/97256BK	5815	00-TT97256BK	Strap
0623/97266	5815	00-611-5183	Plate
0623/97291	5815	00-412-7723	Screw
0623/97292	8815	00-125-8352	Link

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/97294	5815	00-125-4828	Guard
0623/97296	5815	00-448-2021	Screw
0623/97297	5815	00-125-4829	Handle
0623/97298	5815	00-TT97298	Bracket Assembly
0623/97316	5815	00-125-4830	Plate
0623/97317	5815	00-125-5135	Plate
0623/97333	5815	00-125-4812	Counter
0623/97334	5815	00-125-4831	Bracket
0623/97335	5815	00-125-4832	Lever
0623/97340	5815	00-314-1625	Spring
0623/97342	5815	00-125-8424	Plate
0623/97393	5815	00-TT97393	Screw
0623/97445	5815	00-162-0765	Lid
0623/97446	5815	00-126-8621	Bracket
0623/97447	5815	00-448-4184	Pin
0623/97448	5815	00-125-8246	Guide
0623/97467	5815	00-369-9760	Contact
0623/97468	5815	00-126-8622	Guide
0623/97481	5815	00-551-3827	Wick
0623/97500	5815	00-125-3400	Plate
0623/97501	5815	00-125-5712	Frame
0623/97503	5815	00-125-5713	Frame
0623/97506	5815	00-125-5714	Shaft
0623/97511	5815	00-112-8556	Cam Sleeve
0623/97512	5815	00-125-3399	Comb
0623/97513	5815	00-112-8557	Shaft
0623/97514	5815	00-125-5711	Bail
0623/97515	5815	00-125-5716	Extension
0623/97516	5815	00-448-2026	Bushing
0623/97523	5815	00-125-5720	Lever
0623/97525	5815	00-125-3405	Lever
0623/97526	5815	00-125-5719	Arm
0623/97527	5815	00-125-3407	Pawl
0623/97528	5815	00-125-3408	Retainer
0623/97529	5815	00-125-5717	Lever
0623/97530	5815	00-125-3406	Bracket
0623/97531	5815	00-125-5721	Stiffener
0623/97532	5815	00-125-5723	Stiffener
0623/97533	5815	00-503-7296	Contact
0623/97534	5815	00-504-5086	Contact
0623/97535	5815	00-224-5852	Contact
0623/97537	5815	00-125-5040	Lever
0623/97543	5815	00-126-7978	Bracket
0623/97545	5815	00-126-7979	Latch
0623/97546	5815	00-313-9804	Bracket
0623/97548	5815	00-126-7980	Bracket
0623/97549	5815	00-126-7981	Bar
0623/97550	5815	00-126-7982	Stud
0623/97551	5815	00-126-7983	Stud

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/97554	5815	00-126-7985	Bracket
0623/97555	5815	00-128-9623	Roller
0623/97556	5815	00-125-5043	Bracket
0623/97563	5815	00-448-2029	Gear
0623/97564	5815	00-125-5048	Hub
0623/97568	5815	00-516-1792	Bearing
0623/97570	5815	00-448-2031	Bearing
0623/97575	5815	00-128-6337	Shaft
0623/97576	5815	00-448-2032	Gear
0623/97579	5815	00-125-5049	Hub
0623/97581BA	5815	00-TT97581BA	Reel Container
0623/97583	5815	00-448-2034	Bushing
0623/97600	5815	00-TT97600	Carrier
0623/97631	5815	00-126-8624	Bracket
0623/97632	5815	00-126-8625	Bracket
0623/97633	5815	00-125-9731	Lever
0623/97634	5815	00-125-9717	Pawl
0623/97635	5815	00-125-9716	Lever
0623/97637	5815	00-125-9715	Bushing
0623/97638	5815	00-125-8425	Guide
0623/97639	5815	00-125-8288	Post
0623/97640	5815	00-125-8287	Post
0623/97642	5815	00-126-3873	Washer
0623/97643	5815	00-126-3874	Lever
0623/97720	5815	00-029-9426	Contact
0623/97721	5815	00-369-9478	Contact
0623/97799	5815	00-448-2035	Screw
0623/97931	5815	00-127-1147	Arm
0623/98018	5815	00-412-7831	Pallet
0623/98049	5815	00-TT98049	Keystop
0623/98055	5815	00-332-8830	Bender
0623/98069	5815	00-448-4186	Wire
0623/98150	5815	00-126-7691	Oiler
0623/98151	5815	00-126-7692	Clip
0623/98198	5815	00-448-2040	Shim
0623/98479	5815	00-126-3875	Guard
0623/98636	5815	00-448-2050	Spring
0623/98674	5815	00-412-8010	Bracket
0623/98679	5815	00-125-8353	Bracket
0623/98678	5815	00-126-3884	Chute
0623/98680	5815	00-125-8354	Chute
0623/98700	5815	00-126-3885	Bar
0623/98702	5815	00-126-3886	Stripper
0623/98703	5815	00-126-3969	Chute
0623/98708	5815	00-TT98708	Plate
0623/98712	5815	00-TT98712	Screw
0623/98726	5815	00-646-9279	Screw
0623/98736	5815	00-712-9460	Switch
0623/98819	5815	00-412-8027	Knob

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/98832	5815	00-448-2060	Screw
0623/98841	5815	00-126-3889	Bracket
0623/98842	5815	00-126-7986	Bracket
0623/98896	5815	00-125-5091	Bracket
0623/98901	5815	00-125-5090	Pallet
0623/98903	5815	00-125-5088	Pallet
0623/98904	5815	00-126-3970	Pallet
0623/98908	5815	00-126-3973	Pallet
0623/98909	5815	00-126-3974	Pallet
0623/98911	5815	00-126-3976	Pallet
0623/98912	5815	00-126-3977	Pallet
0623/98915	5815	00-369-8983	Pallet
0623/98916	5815	00-TT98916	Pallet
0623/98917	5815	00-448-2064	Pallet
0623/98918	5815	00-392-0105	Pallet
0623/98919	5815	00-448-2065	Pallet
0623/98920	5815	00-241-2611	Pallet
0623/98925	5815	00-412-4743	Pallet
0623/98928	5815	00-126-3980	Pallet
0623/98929	5815	00-126-3981	Pallet
0623/98930	5815	00-126-3982	Pallet
0623/98931	5815	00-126-3983	Pallet
0623/98932	5815	00-126-3984	Pallet
0623/98933	5815	00-126-3985	Pallet
0623/98934	5815	00-126-3986	Pallet
0623/98935	5815	00-126-3987	Pallet
0623/98936	5815	00-126-3988	Pallet
0623/98937	5815	00-126-3989	Pallet
0623/98938	5815	00-126-3890	Pallet
0623/98939	5815	00-126-3891	Pallet
0623/98940	5815	00-125-5087	Pallet
0623/98941	5815	00-125-5086	Pallet
0623/98943	5815	00-125-5085	Pallet
0623/98944	5815	00-125-5084	Pallet
0623/98945	5815	00-135-5083	Pallet
0623/98950	5815	00-125-5081	Pallet
0623/98956	5815	00-126-3990	Pallet
0623/98966	5815	00-126-3994	Type Bar Assembly
0623/98968	5815	00-126-3995	Type Bar Assembly
0623/98969	5815	00-126-3996	Type Bar Assembly
0623/98972	5815	00-392-0110	Type Bar Assembly
0623/98974	5815	00-126-3998	Type Bar Assembly
0623/98975	5815	00-126-4077	Type Bar Assembly

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/98978	5815	00-392-0111	Type Bar
0623/98984	5815	00-126-7701	Type Bar
			Assembly
0623/98985	5815	00-126-7702	Type Bar
			Assembly
0623/98988	5815	00-126-7991	Type Bar
0623/98991	5815	00-126-7706	Type Bar
			Assembly
0623/98992	5815	00-126-7707	Type Bar
			Assembly
0623/98993	5815	00-126-7708	Type Bar
0623/98995	5815	00-126-7710	Type Bar
			Assembly
0623/98998	5815	00-126-7712	Type Bar
			Assembly
0623/98999	5815	00-126-7713	Type Bar
			Assembly
0623/99001	5815	00-126-7714	Type Bar
			Assembly
0623/99004	5815	00-126-7717	Type Bar
			Assembly
0623/99006	5815	00-126-7719	Type Bar
			Assembly
0623/99007	5815	00-126-7720	Type Bar
			Assembly
0623/99010	5815	00-125-5078	Type Bar
			Assembly
0623/99011	5815	00-125-5077	Type Bar
			Assembly
0623/99013	5815	00-125-8361	Type Bar
			Assembly
0623/99018	5815	00-125-8366	Type Bar
			Assembly
0623/99021	5815	00-125-5054	Type Bar
0623/99024	5815	00-392-0115	Type Bar
0623/99028	5815	00-126-8000	Type Bar
			Assembly
0623/99031	5815	00-126-8001	Type Bar
			Assembly
0623/99032	5815	00-126-8002	Type Bar
			Assembly
0623/99033	5815	00-125-8368	Type Bar
			Assembly
0623/99034	5815	00-356-3079	Type Bar
			Assembly
0623/99036	5815	00-125-8370	Type Bar
			Assembly
0623/99038	5815	00-TT99038	Type Bar
			Assembly

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>New Identification No.</i>	<i>Description</i>
0623/99202	5815	00-125-9683	Guard
0623/99214	5815	00-TT99214	Splicer
0623/99220	5815	00-895-3582	Spring
0623/99230	5815	00-125-8372	Plate
0623/99241	5815	00-125-5103	Bar
0623/99250	5815	00-448-2067	Suppressor
0623/99259	5815	00-125-8373	Lever
0623/99260	5815	00-125-5111	Lever
0623/99261	5815	00-125-5114	Lever
0623/99262	5815	00-125-5093	Lever
0623/99263	5815	00-125-5113	Lever
0623/99278	5815	00-297-2165	Screw
0623/99279	5815	00-125-5156	Stud
0623/99280	5815	00-448-2069	Gear
0623/99283	5815	00-125-5112	Guide
0623/99296	5815	00-448-2078	Pinion
0623/99313	5815	00-448-2071	Pinion
0623/99314	5815	00-448-2072	Gear
0623/99380	5815	00-125-8347	Gear
0623/99381	5815	00-625-9695	Foot
0623/99391	5815	00-TT99391	Gauge
0623/99413	5815	00-314-1682	Stud
0623/99414	5815	00-125-9700	Arm
0623/99415	5815	00-125-9701	Bracket
0623/99416	5815	00-448-2074	Gear
0623/99417	5815	00-125-9702	Bracket
0623/99418	5815	00-126-8004	Bracket
0623/99419	5815	00-126-8005	Bracket
0623/99420	5815	00-314-0082	Contact
0623/99423	5815	00-314-1683	Spring
0623/99430	5815	00-126-8006	Stiffener
0623/99460	5815	00-412-8076	Bar
0623/99466	5815	00-125-5056	Extension
0623/99578	5815	00-TT99578	Keytop
0623/99817	5815	00-125-9706	Foot
0623/99827	5815	00-448-2075	Gear
0623/99828	5815	00-125-9707	Plate
0623/99830	5815	00-TT99830	Lever
0623/99871	5815	00-125-5128	Bracket
0623/99872	5815	00-127-1058	Bracket
0623/99876	5815	00-125-9718	Lever
0623/99878	5815	00-448-4202	Bushing
0623/99934	5815	00-310-8736	Guide
0623/99947	5815	00-448-2082	Tool
0623/99985	5815	00-125-9724	Plate
0623/99987	5815	00-125-9725	Bracket
0623/99988	5815	00-125-9726	Extension
0623/99989	5815	00-162-0760	Extension

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/100011	5815	00-412-9078	Nut
0623/100035	5815	00-392-0147	Yoke
0623/100101	5815	00-369-9004	Screw
0623/100421	5815	00-448-3567	Bushing
0623/100550	5815	00-370-0243	Bushing
0623/100587	5815	00-392-1261	Bracket
0623/100688	5815	00-412-8111	Oiler
0623/100704	5815	00-412-8112	Screwdriver
0623/100743	5815	00-TT100743	Clamp
0623/100927	5815	00-392-1379	Foot
0623/100982	5815	00-412-8125	Screwdriver
0623/101004	5815	00-TT101004	Terminal
0623/101006	5815	00-448-3570	Spring
0623/101025	5815	00-125-5140	Bellcrank
0623/101082	5815	00-303-4377	Spanner
0623/101083	5815	00-448-3571	Spring
0623/101243	5815	00-125-5139	Lever
0623/101274	5815	00-126-8627	Rod
0623/101385	5815	00-448-2086	Spring
0623/101386	5815	00-448-2087	Spring
0623/101421	5815	00-412-8133	Screw
0623/101427	5815	00-TT101427	Gear
0623/101439	5815	00-125-5133	Lever
0623/101441	5815	00-125-8145	Cam
0623/101456	5815	00-369-9007	Screw
0623/101476	5815	00-127-7033	Strip
0623/101579	5815	00-125-6918	Pallet
0623/101582	5815	00-125-6917	Pallet
0623/101583	5815	00-125-6916	Pallet
0623/101591	5815	00-127-1152	Wick
0623/101713	5815	00-448-2090	Terminal
0623/101723	5815	00-TT101723	Bar
0623/101724	5815	00-TT101724	Bar
0623/101766	5815	00-126-8632	Cam Sleeve
0623/101783	5815	00-TT101783	Washer
0623/101796	5815	00-370-0244	Washer
0623/101833	5815	00-448-2093	Screw
0623/101887	5815	00-316-9693	Plate
0623/101892	5815	00-677-4869	Pin
0623/101897	5815	00-316-9691	Spring
0623/101900	5815	00-316-9699	Pawl
0623/101905	5815	00-316-9702	Bracket
0623/101906	5815	00-316-9703	Punch
0623/101970	5815	00-316-9707	Stud
0623/101987	5815	00-TT101987	Finger
0623/101995	5815	00-316-9716	Lever
0623/101996	5815	00-318-5157	Pawl
0623/101998	5815	00-318-5159	Spacer
0623/102012	5815	00-318-5164	Gear

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/102013	5815	00-318-5165	Gear
0623/102018	5815	00-091-9559	Bushing
0623/102019	5815	00-TT102019	Washer
0623/102020	5815	00-318-5166	Plunger
0623/102023	5815	00-318-5169	Bushing
0623/102041	5815	00-TT102041	Gear
0623/102042	5815	00-TT102042	Gear
0623/102045	5815	00-318-5174	Shaft
0623/102052	5815	00-448-2079	Screw
0623/102057	5915	00-370-0245	Screw
0623/102058	5815	00-318-5176	Lever
0623/102063	5815	00-318-5177	Lever
0623/102064	5815	00-318-5178	Lever
0623/102067	5815	00-332-1085	Rail
0623/102069	5815	00-125-8403	Rail
0623/102092	5815	00-370-1829	Screw
0623/102100	5815	00-369-8884	Terminal
0623/102104	5815	00-127-6399	Lever
0623/102107	5815	00-127-6397	Knife
0623/102108	5815	00-127-6400	Pawl
0623/102109	5815	00-127-1972	Lever
0623/102111	5815	00-127-1973	Pawl
0623/102118	5815	00-316-9725	Clutch
0623/102119	5815	00-TT102119	Clutch
0623/102121	5815	00-316-9726	Screw
0623/102125	5815	00-TT102125	Clutch
0623/102200	5815	00-126-8633	Arm
0623/102208	5815	00-091-9561	Block
0623/102209	5815	00-TT102209	Roller
0623/102210	5815	00-694-6457	Punch
0623/102221	5815	00-091-9599	Spring
0623/102222	5815	00-TT102222	Stripper
0623/102223	5815	00-TT102223	Arm
0623/102224	5815	00-091-9600	Washer
0623/102225	5815	00-TT102225	Washer
0623/102226	5815	00-091-9560	Spacer
0623/102227	5815	00-TT102227	Bracket
0623/102230	5815	00-126-8635	Bail
0623/102231	5815	00-127-1974	Bracket
0623/102232	5815	00-127-1975	Bracket
0623/102252	5815	00-316-9737	Spring
0623/102262	5815	00-316-9739	Lever
0623/102287	5815	00-316-9741	Contact
0623/102288	5815	00-316-9742	Contact
0623/102291	5815	00-316-9744	Spacer
0623/102293	5815	00-318-5180	Link
0623/102303	5815	00-318-5185	Roller
0623/102304	5815	00-TT102304	Lever
0623/102306	5815	00-318-5186	Lever

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/102307	5815	00-318-5187	Lever
0623/102308	5815	00-318-5188	Lever
0623/102309	5815	00-318-5189	Lever
0623/102310	5815	00-318-5190	Lever
0623/102329	5815	00-318-5193	Contact
0623/102330	5815	00-318-5194	Contact
0623/102376	5815	00-318-5199	Stud
0623/102380	5815	00-091-9562	Bushing
0623/102415	5815	00-TT102415	Latch
0623/102416	5815	00-757-7627	Screw
0623/102422	5815	00-TT102422	Bail
0623/102439	5815	00-318-5241	Lid
0623/102444	5815	00-318-5243	Shaft
0623/102458	5815	00-318-5247	Lever
0623/102465	5815	00-448-3577	Screw
0623/102472	5815	00-318-5248	Contact
0623/102473	5815	00-318-5249	Contact
0623/102653	5815	00-127-1137	Pallet
0623/102667	5815	00-412-4781	Pinion
0623/102668	5815	00-412-4782	Gear
0623/102696	5815	00-369-9821	Bracket
0623/102773	5815	00-332-4490	Shim
0623/102776	5815	00-318-5251	Wick
0623/102791	5815	00-127-1976	Bracket
0623/102792	5815	00-127-1977	Deflector
0623/102794	5815	00-127-1978	Deflector
0623/102795	5815	00-127-1979	Guide
0623/102815	5815	00-126-8637	Bracket
0623/102839	5815	00-194-1511	Washer
0623/102859	5815	00-369-9033	Suppressor
0623/102861	5815	00-448-2101	Shim
0623/102877	5815	00-125-5058	Bar
0623/102890	5815	00-TT102890	Armature
0623/102892	5815	00-TT102892	Screw
0623/102893	5815	00-TT102893	Plate
0623/102894	5815	00-TT103894	Plate
0623/102895	5815	00-TT102895	Lever
0623/102914	5815	00-412-4789	Bracket
0623/102915	5815	00-412-4790	Insulator
0623/102916	5815	00-412-4791	Bracket
0623/102937	5815	00-153-3693	Latch
0623/102942	5815	00-412-4793	Plate
0623/102946	5815	00-TT102946	Filter
0623/102964	5815	00-349-0853	Bracket
0623/102965	5815	00-318-5253	Spacer
0623/102974	5815	00-TT102974	Washer
0623/102999	5815	00-091-9563	Screw
0623/103076	5815	00-318-5255	Washer
0623/103084	5815	00-318-5256	Washer

<i>Old Identification No.</i>	<i>Group/Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/103120	5815	00-TT103120	Nut
0623/103182AA	5815	00-392-1428	Pawl Assembly
0623/103182BA/L1	5815	00-TT103182BA/L1	Pawl Assembly
0623/103284	5815	00-369-9047	Fusetron
0623/103286	5815	00-240-4126	Fusetron
0623/103305	5815	00-318-5258	Washer
0623/103310	5815	00-126-3894	Lever
0623/103316	5815	00-126-3895	Bellcrank
0623/103317	5815	00-126-3896	Bellcrank
0623/103318	5815	00-356-3081	Bellcrank
0623/103319	5815	00-126-3898	Bellcrank
0623/103320	5815	00-126-7722	Bellcrank
0623/103341	5815	00-126-7723	Bracket
0623/103356	5815	00-318-5259	Spring
0623/103386	5815	00-126-7726	Guard
0623/103398	5815	00-318-5260	Spring
0623/103511	5815	00-TT103511	Screw
0623/103534	5815	00-TT103534	Tool
0623/103531	5815	00-TT103531	Insulator
0623/103538	5815	00-126-3900	Insert
0623/103539	5815	00-448-2108	Screw
0623/103625	5815	00-412-4821	Oil Can
0623/103628	5815	00-369-9834	Speed Indicator
0623/103634	5815	00-126-3903	Handle
0623/103968	5815	00-TT103968	Arm Cover
0623/103975	5815	00-784-4996	Window
0623/104124	5815	00-448-2117	Screw
0623/104451	5815	00-370-0043	Washer
0623/104572	5815	00-126-3907	Bracket
0623/104582	5815	00-412-8228	Bar
0623/104583	5815	00-412-8229	Bar
0623/104584	5815	00-412-8230	Bar
0623/104672	5815	00-TT104672	Plug
0623/104702	5815	00-473-8388	Screw
0623/104751	5815	00-318-5264	Spring
0623/104807	5815	00-370-0009	Washer
0623/104827	5815	00-787-7014	Bearing
0623/104845	5815	00-126-3909	Pallet
0623/104867	5815	00-412-8262	Clamp
0623/104868	5815	00-370-1700	Window
0623/104950	5815	00-126-3913	Type Bar Assembly
0623/104951	5815	00-126-3914	Type Bar Assembly
0623/104984	5815	00-448-2131	Tuning Fork
0623/104986	5815	00-412-9066	Tuning Fork
0623/104990	5815	00-448-3587	Window
0623/104995	5815	00-160-0091	Pin
0623/105024	5815	00-412-8268	Pad

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/105028	5815	00-174-0969	Wick
0623/105045	5815	00-TT105045	Wick
0623/105048	5815	00-TT105048	Mod. Kit
0623/105116	5815	00-TT105116	Washer
0623/105121	5815	00-318-5269	Arm
0623/105133	5815	00-318-5271	Lid
0623/105136	5815	00-TT105136	Cam Sleeve
0623/105139	5815	00-318-5273	Plate
0623/105140	5815	00-318-5274	Oscillator
0623/105147	5815	00-318-5278	Lever
0623/105186	5815	00-472-4976	Tension Tool
0623/105221	5815	00-193-2815	Contact
0623/105222	5815	00-503-7309	Contact
0623/105223	5815	00-503-7308	Contact
0623/105279	5815	00-231-1485	Switch Assembly
0623/105432	5815	00-125-9727	Bracket
0623/105441	5815	00-448-2134	Setscrew
0623/105601	5815	00-160-0041	Plate
0623/105614	5815	00-412-4842	Pad
0623/105627	5815	00-160-0123	Stud
0623/105688	5815	00-369-9088	Pad
0623/105739	5815	00-126-8099	Plate
0623/105912	5815	00-369-9850	Washer
0623/105940	5815	00-412-8317	Spring
0623/105958	5815	00-472-4941	Stop
0623/106047	5815	00-448-2167	Screw
0623/106048	5815	00-127-1981	Bracket
0623/106048	5815	00-448-3592	Resistor
0623/106051	5815	00-473-8374	Screw
0623/106052	5815	00-127-6395	Post
0623/106053	5815	00-127-6396	Post
0623/106202	5815	00-129-1911	Spacer
0623/106261	5815	00-127-1155	Bracket
0623/106262	5815	00-314-1731	Spring
0623/106801	5815	00-448-2172	Switch
0623/106805	5815	00-125-5146	Retainer
0623/106806	5815	00-127-1156	Bracket
0623/107007	5815	00-412-8379	Guard
0623/107013	5815	00-129-9793	Bushing
0623/107026	5815	00-126-8102	Backstop
0623/107027	5815	00-127-2036	Shield
0623/107112	5815	00-126-4088	Shim
0623/107116	5815	00-370-1194	Washer
0623/107170	5815	00-412-4889	Screw
0623/107452	5815	00-369-9895	Brush
0623/107485	5815	00-412-8432	Screw
0623/107487	5815	00-412-8433	Cup
0623/107488	5815	00-412-8434	Cup
0623/108005	5815	00-392-1450	Plunger

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/108006	5815	00-392-1451	Bail
0623/108252	5815	00-412-8513	Screwdriver
0623/108285	5815	00-412-8516	Pliers
0623/108286	5815	00-412-8517	Pliers
0623/108891	5815	00-TT108891	Screw
0623/109631	5815	00-TT109631	Spring
0623/109757	5815	00-370-0247	Washer
0623/110330	5815	00-091-9564	Screw
0623/110335	5815	00-318-5280	Screw
0623/110350	5815	00-126-8111	Block
0623/110366	5815	00-318-5291	Lever
0623/110367	5815	00-318-5292	Latch
0623/110368	5815	00-318-5293	Lever
0623/110369	5815	00-318-5294	Bracket
0623/110375	5815	00-TT110375	Support
0623/110379	5815	00-318-5299	Bar
0623/110434	5815	00-369-8658	Screw
0623/110436	5815	00-369-9397	Spring
0623/110437	5815	00-351-7790	Spring
0623/110438	5815	00-205-4604	Spring
0623/110439	5815	00-091-9565	Pin
0623/110444	5815	00-561-2581	Scale
0623/110445	5815	00-369-9134	Tool
0623/110455	5815	00-318-5225	Spring
0623/110476	5815	00-TT110476	Screw
0623/110647	5815	00-TT110647	Retainer
0623/110648	5815	00-TT110648	Retainer
0623/110650	5815	00-472-4887	Pinion
0623/110651	5815	00-TT110651	Gear
0623/110652	5815	00-TT110652	Plate
0623/110653	5815	00-448-3605	Post
0623/110673	5815	00-153-5206	Shaft
0623/110682	5815	00-126-8106	Roller
0623/110701	5815	00-TT110701	Cam Sleeve
0623/110777	5815	00-448-2181	Spring
0623/110778	5815	00-126-8108	Bracket
0623/110780	5815	00-160-0013	Lid
0623/110781	5815	00-126-8107	Bracket
0623/110782	5815	00-318-5221	Lever
0623/110790	5815	00-369-9136	Plate
0623/110845	5815	00-318-5220	Washer
0623/110872	5815	00-412-4951	Spring
0623/110901	5815	00-126-8109	Plate
0623/110902	5815	00-126-8110	Plate
0623/110904	5815	00-412-4962	Plate
0623/110920	5815	00-412-4965	Rod
0623/110952	5815	00-412-4968	Cover
0623/110974	5815	00-448-3606	Spring
0623/111019	5815	00-125-5061	Punch Block

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/111022	5815	00-125-5063	Punch Block
0623/111023	5815	00-125-5064	Punch Block
0623/111024	5815	00-125-5065	Punch Block
0623/111027	5815	00-369-9142	Block
0623/111060	5815	00-318-5217	Punch Block
0623/111062	5815	00-TT111062	Terminal
0623/111303	5815	00-370-1872	Container Capacitor
0623/111329	5815	00-370-0010	Guide
0623/111342	5815	00-448-2191	Spring
0623/111343	5815	00-412-8579	Clamp
0623/111345	5815	00-448-3610	Latch
0623/111346	5815	00-448-3611	Spring
0623/111347	5815	00-448-3612	Screw
0623/111355	5815	00-370-1276	Spring
0623/111410	5815	00-679-8308	Washer
0623/111464	5815	00-309-3790	Shim
0623/111516	5815	00-TT111516	Spacer
0623/111545	5815	00-309-3793	Filler
0623/111602	5815	00-125-5249	Plug
0623/111603	5815	00-125-5110	Platen
0623/111614	5815	00-318-5212	Spring
0623/111627	5815	00-125-5250	Plate
0623/111653	5815	00-318-5210	Shim
0623/111654	5815	00-412-4982	Pad
0623/111686	5815	00-125-5253	Disc
0623/111711	5815	00-162-0763	Strip
0623/111713	5815	00-370-1830	Screw
0623/111744	5815	00-TT111744	Pallet
0623/111745	5815	00-TT111745	Pallet
0623/111767	5815	00-412-8625	Washer
0623/111937	5815	00-318-5304	Bar
0623/111964	5815	00-091-9566	Shim
0623/112048	5815	00-129-9808	Stiffener
0623/112076	5815	00-318-5306	Spring
0623/112091	5815	00-677-4357	Post
0623/112127	5815	00-370-1808	Hinge
0623/112128	5815	00-370-1807	Retainer
0623/112237	5815	00-392-1739	Block
0623/112238	5815	00-392-1740	Block
0623/112241	5815	00-392-1741	Backstop
0623/112497	5815	00-162-0749	Plate
0623/112498	5815	00-448-2194	Screw
0623/112499	5815	00-448-2195	Bushing
0623/112517BA	5815	00-125-5000	Guard
0623/112570	5815	00-TT112570	Contact
0623/112571	5815	00-370-1336	Contact
0623/112572	5815	00-370-1337	Contact
0623/112627	5815	00-369-9147	Nut

New Identification No.

Old Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/112628	5815	00-369-9233	Nut
0623/112630	5815	00-369-9389	Spring
0623/112631	5815	00-205-4610	Spring
0623/112632	5815	00-369-9394	Spring
0623/112633	5815	00-369-9399	Spring
0623/112634	5815	00-369-9160	Spring
0623/112635	5815	00-598-4440	Spring
0623/112636	5815	00-370-1233	Spring
0623/112668	5815	00-219-6939	Bracket
0623/112694	5815	00-TT112694	Receptacle
0623/112699	5815	00-369-9920	Screw
0623/112718	5815	00-412-8799	Support
0623/112782	5815	00-370-1674	Insulator
0623/112784	5815	00-412-9216	Insulator
0623/112827	5815	00-412-8822	Screw
0623/112829	5815	00-412-9219	Bushing
0623/112902	5815	00-412-9223	Insulator
0623/113093	5815	00-412-9029	Spring
0623/113108	5815	00-412-9031	Spacer
0623/113109	5815	00-412-9032	Spacer
0623/113113	5815	00-412-9036	Spacer
0623/113252	5815	00-TT113252	Keypop
0623/113756	5815	00-888-0794	Maintenance Kit
0623/113850	5815	00-412-8671	Washer
0623/113872	5815	00-412-8687	Bushing
0623/113982	5815	00-412-8985	Roller
0623/114069	5815	00-125-5828	Plate
0623/114107	5815	00-318-5050	Spring
0623/114178	5815	00-TT114178	Container Reel
0623/114199	5815	00-412-9119	Tool
0623/114200	5815	00-370-0130	Tool
0623/114240AA	5815	00-TT114240AA	Copyholder
0623/114432	5815	00-412-5042	Bar
0623/114467	5815	00-412-8894	Bases
0623/114589	5815	00-392-1777	Mounting
0623/114717	5815	00-TT114717	Track
0623/114766	5815	00-332-8886	Stud
0623/114950	5815	00-369-9923	Base Keyboard
0623/114958BA	5815	00-525-2740	Cover
0623/114967	5815	00-TT114967	Bracket
0623/114968BA	5815	00-TT114968BA	Switch Assembly
0623/115141	5815	00-652-2477	Screw
0623/115700AA	5815	00-126-3956	Copyholder
0623/115704AA	5815	00-125-9810	Plate
0623/115721	5815	00-TT115721AA	Plate
0623/115823	5815	00-040-3178	Backstop
0623/115932BA	5815	00-129-9991	Base
0623/115933AA	5815	00-TT115933AA	Plate
0623/115937BA	5815	00-126-8275	Guard

New Identification No.

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/116156	5815	00-448-3621	Wrench
0623/116749	5815	00-412-5055	Jig Assembly
0623/116783	5815	00-TT116783	Holder
0623/116793	5815	00-370-1752	Washer
0623/116799	5815	00-412-5057	Tool
0623/116992	5815	00-370-1318	Screw
0623/117078	5815	00-T1117078	Screw
0623/117313	5815	00-533-4444	Spindle
0623/117314	5815	00-370-1445	Spring
0623/117315	5815	00-370-1446	Hub
0623/117316	5815	00-370-1450	Spindle
0623/117317	5815	00-370-1447	Bearing
0623/117318	5815	00-370-1448	Screw
0623/117319	5815	00-370-1449	Shaft
0623/117375	5815	00-TT117375	Box
0623/117387	5815	00-412-5059	Plate
0623/117406	5815	00-TT117406	Contact
0623/117407	5815	00-TT117407	Contact
0623/117415	5815	00-392-1795	Collar
0623/117416	5815	00-392-1796	Post
0623/117434AA	5815	00-TT117434AA	Door
0623/117447BA	5815	00-TT117447BA	Plate
0623/117535	5815	00-370-1200	Washer
0623/117781	5815	00-448-3624	Gauge Set
0623/117848	5815	00-313-5408	Washer
0623/117908	5815	00-370-1222	Spring
0623/118348	5815	00-TT118348	Cap Clear
0623/118530	5815	00-TT118530	Gauge
0623/119540	5815	00-412-9233	Nuts Keyed
0623/119629	5815	00-370-1317	Link
0623/119647	5815	00-370-0250	Ring
0623/119651	5815	00-412-8988	Ring
0623/119653	5815	00-370-0254	Ring
0623/119654	5815	00-652-2480	Ring
0623/119655	5815	00-370-0359	Ring
0623/119904	5815	00-TT119904	Spring
0623/119925	5815	00-765-4884	Nut
0623/120079	5815	00-TT120079	Gear Fibre
0623/120498	5815	00-TT120498	Retainer
0623/120553	5815	00-309-3811	Disc
0623/120594	5815	00-370-1396	Follower
0623/120595	5815	00-370-1857	Follower
0623/120714	5815	00-TT120714	Hub
0623/120824	5815	00-370-1057	Washer
0623/120870	5815	00-370-1765	Wick
0623/120882	5815	00-TT120882	Contact
0623/120896	5815	00-TT120896	Screw
0623/121018	5815	00-679-8312	Nut
0623/121021	5815	00-TT121021	Screw

Old Identification No.

New Identification No.

Old Identification No.	Group/Class	Catalogue No.	Description
0623/121038	5815	00-TT121038	Wrench
0623/121051	5815	00-399-7865	Bracket
0623/121052	5815	00-092-1407	Spring
0623/121058AA	5815	00-126-3870	Door
0623/121100	5815	00-677-7750	Spring
0623/121125	5815	00-TT121125	Washer Spring
0623/121248	5815	00-318-5363	Clamp
0623/121243	5815	00-TT121243	Clamp
0623/121244	5815	00-TT121244	Clamp
0623/121245	5815	00-TT121245	Clamp
0623/121253	5815	00-TT121253	Pinion
0623/121254	5815	00-TT121254	Gear
0623/121473	5815	00-TT121473	Stud
0623/121550	5815	00-TT121550	Tool
0623/121575	5815	00-370-1767	Screw
0623/121578	5815	00-392-1837	Plate
0623/121582	5815	00-392-1838	Bail
0623/121583	5815	00-392-1839	Bail
0623/121585	5815	00-392-1841	Selector Bail Assembly
0623/121592	5815	00-392-1842	Lever
0623/121593	5815	00-392-1843	Tape Contact Bar Assembly
0623/121594	5815	00-392-1844	Lever
0623/121595	5815	00-392-1845	Tape Contact Lever Assembly
0623/121596	5815	00-392-1846	Lever
0623/121597	5815	00-391-1847	Tape Contact Lever Assembly
0623/121598	5815	00-392-1848	Lever
0623/121599	5815	00-392-1849	Tape Contact Lever Assembly
0623/121600	5815	00-392-1850	Lever
0623/121601	5815	00-392-1851	Tape Contact Lever Assembly
0623/121602	5815	00-525-0995	Extension Tape Feed Lever
0623/121603	5815	00-525-1001	Extension Tape Feed Lever
0623/121605	5815	00-525-0997	Bushing
0623/121606	5815	00-392-1852	Tape Feed Lever Assembly
0623/121610	5815	00-392-1855	Selector Lever Contact Assembly
0623/121617	5815	00-392-1856	Plate
0623/121618	5815	00-392-1857	Lever
0623/121625	5815	00-392-1858	Post
0623/121626	5815	00-392-1859	Lever
0623/121628	5815	00-392-1860	Bracket

Old Identification No.

New Identification No.

	<i>Group/ Class</i>	<i>Catalogue No.</i>	<i>Description</i>
0623/121629	5815	00-392-1861	Plate
0623/121630	5815	00-392-1862	Washer
0623/121634	5815	00-392-1863	Pawl
0623/121635	5815	00-392-1864	Pawl
0623/121646	5815	00-392-1865	Extension Armature
0623/121647	5815	00-392-1866	Plate
0623/121790	5815	00-TT121790	Screw
0623/121922	5815	00-318-5323	Deflector Tape
0623/121995	5815	00-370-1778	Tape Tension Lever
0623/122059	5815	00-317-2144	Spring
0623/122103	5815	00-TT122103	Spring Torsion
0623/122202	5815	00-370-0255	Stud
0623/122204	5815	00-370-0256	Cap Brush
0623/122208	5815	00-TT122208	Washer Flat
0623/122210	5815	00-371-8159	Armature

(ADSA (M) 519/58/257)

RESTRICTED

ANO's 65-77/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
21st February, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

M. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

65—RAN Aircraft Ground Equipment Committee

The RAN Aircraft Ground Equipment Committee (Short title RANAGEC) is an advisory body responsible for consideration, evaluation and, where necessary, recommending for adoption, new aircraft ground equipment, aircraft handling equipment and support equipment including specialised vehicles and systems and general aircraft maintenance tools and workshop equipment.

2. Terms of Reference

- (a) To advise on the types of equipments for ground handling, servicing and support of RAN aircraft ashore and afloat to meet staff requirements.
- (b) To keep under constant review, and to advise on the scales of issue of such equipment, to recommend the introduction of new equipment and the withdrawal from service of redundant or obsolete equipment.
- (c) To keep under constant review the design of such equipment; to initiate and follow up new developments.
- (d) To initiate action for service trials of such equipment and arrange for representation at such trials.
- (e) To maintain liaison with other services in the interests of integration and standardisation of design where possible.

3. Composition

Staff of the Assistant Chief of Naval Technical Services (Aircraft Engineering)—

Assistant for Aircraft Engineering Planning (Chairman)
Equipment Planning Officer (Secretary)

Staff of the Superintendent of Aircraft Maintenance and Repair—

Equipment Standards Officer.
Officer-in-Charge, RANAMDU.

Representatives of—

D of S (Air)	} as necessary.
DNS	
DMS	
DNAP	
FOCAF	
HMAS ALBATROSS.	

Other departments and authorities may be invited to attend when matters relevant to their field of responsibilities are to be discussed.

4. Location and Frequency of Meetings

The Committee will normally meet twice annually, meetings being held at HMAS ALBATROSS. Where possible these meetings will be so timed to permit attendance of the representative from FOCAF.

- (e) *Nature of modification* .. To remove follow-up Motor Pattern 5014 and install follow-up Motor Pattern 5014, Mod. 1.
- (f) *Drawings* .. Nil.
- (g) *By whom to be done* .. Dockyard—during the next overhaul of compass equipment.
- (h) *Priority* .. Category 1.
- (j) *How to be treated* .. As a defect.

(PEE 519/53/305)

UNCLASSIFIED

68—Alteration and Addition Item—Type 12 DE's

The following Alteration and Addition Item is approved to be carried out in Type 12 DE's—

Class List Item No. 324—(Ex TDL "YH").

- (a) *Item:* Replace two 20 gallon electric boiling coppers in the main galley by one steam jacketed 20 gallon boiling copper.
- (b) A weight saving of approximately 367 lbs. will result with the implementation of this item.
- (c) *References:* (i) HMAS YARRA's Form AS 1182 TDL "YH" dated 26th February, 1966 forwarded under cover of FOCAF Memorandum dated 21st February, 1966 (SIC)
(ii) YARRA's Signal DTG 210345Z September, 1966 (NOTAL)
(iii) ACNB Signal DTG 280729Z October, 1966 (NOTAL)

(CNTS 1224/67/362)

UNCLASSIFIED

69—Ammunition—Pyrotechnics—Aircraft—Genrus Mayday Rocket Flare Kits—Introduction

1. *Item* .. The following store is hereby introduced into Naval service for aircrew only—
Genrus Mayday Rocket Flare Kit.
2. *Description* .. The Genrus Mayday Rocket Flare Kit consists of 7-No. red flares complete with launcher in a plastic envelope which contains instructions for use.
3. *Life* .. A provisional life of 2 years has been allocated to this store.
4. *Classification* .. Group 9 Category X.
5. *Package* .. The red flares and launchers will be issued in a Box C190.
6. *Allowance* .. The outfit allowance is one kit per aircrew. Each aircrew will be allowed in addition three flares per annum for practice and demonstration purposes. Demands are to be made to SASO, Sydney.

(DAS 727/56/125)

RESTRICTED

70—Boilers, Auxiliary—John Thompson La Mont Type—Precautions—Type 12 DE's

Repeated failures have occurred in the above auxiliary boilers fitted to RN ships and it has become apparent that the automatic safety devices fitted to the boilers cannot be wholly relied upon to prevent accidents. Attempts to rectify each shortcoming as it was revealed have met with only partial success and investigations are currently being conducted with a view to a complete redesign of the control and safety devices to provide a reliable and fully automatic unit. Until this redesign has been completed and the boilers have been modified, it has been decided that it is unacceptable to leave these boilers unattended while running. In future, therefore a watchkeeper is to be employed with the sole duty of watching the boiler whenever it is in use. This must be accepted as part of the harbour watchkeeping load; no increase of complement can be considered.

2. Points on which this type of boiler has shown itself to be particularly liable to trouble, and to which the attention of watchkeepers should be drawn are as follows—

(a) *Overloading the Boiler*—The boiler is rated at 3,500-lb. steam/hr. This output is achieved with one No. 55 and one No. 57 jet in use. The use of two No. 55 jets can overload the boiler and is not allowed. Attention is drawn to the instructions on Page 23 of BR 2111 (4) on the adjustment of the air flow to suit the sizes of jet in use.

(b) *Electrical Failure*—A partial or total electrical failure followed by restoration of electrical supplies may leave the circulating pump and/or feed pumps stopped, but allow the boiler to start up normally in other respects. Should the DP unit then fail to shut down the boiler, serious damage would result. Feed and circulating pumps are to be checked to be running after any automatic shut down.

(c) *Feed Regulation and Low Water Level Protection*—The Differential Pressure Unit is the only protection against low water level and this unit has failed on several occasions. In addition, both the feed regulator valve and the feed pump relief valve have given trouble due to stickiness and leakage respectively. Careful watch must therefore be kept that a steady water level is maintained. If the water level goes out of the bottom of the gauge glass at all, or if it is seen to drop to a lesser extent and does not begin to recover at once, the boiler must immediately be shut down by hand.

(d) *Restart after DP Unit Shut down*—The boiler should be kept shut down (by putting the Start/Stop switch to "Stop" if necessary) until the cause of the shut-down has been discovered and rectified.

Note—The boiler will restart on the restoration of the differential pressure unless action is taken to prevent it.

(e) *Two-burner Operation*—The boiler must not be allowed to flash on two burners together. If, when both burners are in use, the boiler shuts down on high steam pressure (or for any other cause), the fuel distribution valve must be changed to "Lower Burner Only" at once.

(f) *Fuel Leakage*—Leakage through the fuel distribution valve and a shut down sprayer into the furnace, or through a sprayer connection onto the plates are frequent. Careful watch must be kept for such leaks; the boiler is to be shut down unless the leaks can be stopped at once.

(g) *Boiler Room Air Pressure*—Failure to keep a positive air pressure in the Boiler Room may result in flash-backs on flashing up or shutting down. It is, therefore, important to keep a small positive air pressure in the Boiler Room whenever the auxiliary boiler is running. The speeds of the Boiler Room ventilation fans are to be adjusted accordingly; in particular the ventilation exhaust fan should not be run unless the supply fans are running.

(h) *Purging the Furnace*—If the boiler fails to fire on starting up, or if it shuts down in the "Alarm" condition, an explosive gas mixture may be left in the furnace and it is therefore essential to purge the furnace with air before any attempt to restart is made. This can be done by putting the fuel distribution valve to "Both Burners Off"; holding the air dampers open by hand; and starting the fan by pressing the special button fitted for the purpose. Purging should be continued for at least two minutes.

3. Accumulations of soot form a serious fire risk; there is particular risk of fire when the boiler is operated on two burners for the first time after prolonged running on one burner. Accumulations of soot also increase the resistance to flow of the uptake gases, thus reducing the available pressure drop across the boiler, reducing its efficiency and increasing the possibility of flash-back. The uptakes are to be inspected and swept sufficiently frequently to prevent accumulation of soot. Where existing access arrangement to the uptakes does not permit this, additional access doors should be fitted by defect list action, quoting this order as authority.

4. MOD (Navy) has advised that amendments to BR 2111 (4) to cover the points in Paragraph 2 above, are being made.

(DMED 400/202/287)

UNCLASSIFIED

71—Diving and Damage Control—Breathing Apparatus—Inspection and Testing of Equipment

Navy Order 611 of 1966 is to be amended as follows—

Paragraph 2 (a) (vi)—

After "establishments" delete "in accordance with BR 1692, The Storehouse Manual, Articles 775, 776 and 778."

(AS (NS) 401/1/9)

(Navy Order 611 of 1966)

UNCLASSIFIED

72—Fixed Issuing Prices for Provisions and Victualling Allowances as from 1st January, 1967

The price list for provisions and supplementary price lists for fresh and frozen meats, bacon and sundries and fresh fruit and vegetables, which have operated since 1st January, 1st July and 1st October, 1966, respectively, have been amended as from 1st January, 1967.

2. Revised price lists have been distributed to all HMA ships and establishments.

3. Consequent upon the revision of these prices, the following rates of victualling allowances per head per day, will apply as from 1st January, 1967—

	Ashore \$	Afloat \$
Messes of 50 or less victualled from a separate galley	0.76	0.78
All other messes of 300 or less	0.75	0.76
Messes of more than 300	0.73	0.75
Additional for ships of the Strategic Reserve ..	..	0.04
Supplementary "Broadside" messing allowance for HMA ships ANZAC, DIAMANTINA, DUCHESS, and QUEENBOROUGH .. .. .	..	0.02
HMAS MELVILLE	0.78	..
HMAS TARANGAU	0.80	..
Cadet Midshipmen at RANC .. .. .	..	..
Junior Recruits, at training establishments ..	0.84	see Para- graph 4
Apprentices at RANATE .. .. .	..	..
Australian Sea Cadets attending camps and courses	..	..

4. The allowance of 84 cents per day for Cadet Midshipmen, Junior Recruits, Apprentices and Australian Sea Cadets is increased to 86 cents per day when victualled on board ships undergoing training and messed separately.

5. Navy Order 627 of 1966 is hereby cancelled.

(D of V 903/51/137)

(Navy Order 627 of 1966)

UNCLASSIFIED

73—Lubricants—Introduction of Neox Products for Stern Tube Lubrication

(DCI (RN) 1409/1965)

"Neox D Heavy Oil" (formerly known as Neox D Oil) has been introduced as follows—

NATO Supply Classn.	Catalogue No.	Description	Denom.	Acctg. Status
9150	0721/721027	Oil, Lubricating, "Neox D Heavy" (Messrs. Benjamin Vickers Ltd)	GL	C

Stocks are being made available at dockyards. The introduction will complete the range of Neox products available for stern tube, lubrication, as follows—

(a) Cat. 0721/721025 (formerly Pattern 0475/943)	(45-gallon drum)	} NEOX STANDARD
Cat. 0721/721026 (formerly Pattern 0475/10232)	(5-gallon drum) ..	
(b) Cat. 0721/721027 ..	(45-gallon drum)	NEOX D HEAVY (formerly known as NEOXD)
(c) Cat. 0474/474049 ..	(7-lb tin)	NEOX DT EXTRA HEAVY (formerly known as NEOX DT SOFT GREASE)

2. All these products are specially blended heavy emulsifiable oils for use, primarily, in applications where oil/water contact is inevitable, and where lubrication and, sometimes, sealing characteristics are also important. (a) and (b) above, are medium and heavy oils respectively, and (c) NEOX DT EXTRA HEAVY can be regarded as being a grease.

3. Ships should effect change-overs at the earliest convenient time. As OC-160 and OM-750 are not incompatible with the NEOX oils, a simple change of oil without cleaning of systems is all that is required. Every effort should be made, however, to ensure that as much as possible of the old oil is drained down before topping up with the new oil. In the case of grease lubricated stern tube bearings, the compressor and greasing system should be cleaned out as far down towards the bearings as practicable before the new charge is put in. It will be appreciated that this can be more readily achieved while the ship is in dry dock.

4. Details concerning the application of these products are as follows—

(a) *NEOX STANDARD*—Type 12 Destroyer Escorts and Ton Class Minesweepers fitted with oil lubricated stern tube bearings, in lieu of the mixture of OC-160 and OM-750 for use in temperate climates (see Paragraph 5 below.)

(b) *NEOX D HEAVY*—Type 12 Destroyer Escorts, HMAS MORESBY and Ton Class Minesweepers fitted with oil lubricated stern tube bearings, in lieu of the mixture of OC-160 and OM-750, for use in tropical climates (see Paragraph 5 below). HMA ships concerned are to introduce this oil at the earliest convenient opportunity, in lieu of the mixture currently in use.

(c) *NEOX DT EXTRA HEAVY*—Ships, including submarines, fitted with grease lubricated stern tube bearings. Future demands of this grease should quote the modified description in lieu of the former description as quoted in 1 (c) above.

5. *Neox Standard*—Is included in this order for information only, and it is not intended at present to introduce this grade into the RAN. The use of NEOX D HEAVY for oil lubricated stern tube bearings has been specified, as it is likely that very heavy expenditure of the NEOX STANDARD would occur in hot climates.

6. If NEOX D HEAVY is used in colder climates there will be a tendency for the oil to thicken, necessitating a change to a thinner grade. Reports are to be forwarded to Navy Office should it appear that these conditions are likely to be encountered.

(PME 1211/51/414)

UNCLASSIFIED

74—Naval Stores—General—Group/Class 0623—Transfer to Group/Class 0626, NATO Group/Classes and Re-identification—American Radar

Items of American Radar presently accounted for under Group/Class 0623 have been transferred to Group/Class 0626 and to applicable NATO Group/Classes. See Appendixes A and B respectively.

2. Where it has been possible to establish a Federal Stock Number (FSN) for local stock numbered item, the FSN is shown. All other local stock numbered items procured from USA have been transferred to the applicable NATO Group/Class, the Local Stock retained and the Nation Code "00" has been inserted (Appendix B is relevant).

3. Appendix C details those items currently held under an unbridged FSN, that is, the Nation Code is not included, which have now been re-identified to the full FSN (Nation Code now included).

4. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

APPENDIX A

Transfer of Items from Group Class 0623 to 0626

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
0623/150107	0626	150107	Clamp
150172	0626	150172	Blower Assembly
150176	0626	150176	Connector Valve
150182	0626	150182	Board
150191	0626	150191	Grommet
150192	0626	150192	Grommet
150193	0626	150193	Grommet
150194	0626	150194	Grommet
150195	0626	150195	Grommet
150197	0626	150197	Grommet
150214	0626	150214	Tool Wrench
150215	0626	150215	Cap Fuseholder
150217	0626	150217	Holder Resistor Sub Assembly
150218	0626	150218	Spring Coil
150221	0626	150221	Coil
150222	0626	150222	Coil
150224	0626	150224	Filter RF
150242	0626	150242	Board
150243	0626	150243	Lampholder
150258	0626	150258	Board
150284	0626	150284	Spring
150285	0626	150285	Spring
150286	0626	150286	Spring
150287	0626	150287	Spring
150288	0626	150288	Gasket
150289	0626	150289	Spring
150290	0626	150290	Spring
150291	0626	150291	Spring
150292	0626	150292	Spring
150293	0626	150293	Gasket
150298	0626	150298	Retainer
150299	0626	150299	Retainer
150302	0626	150302	Gasket

APPENDIX B

Items Transferred to NATO Group/Classes

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
0623/L10391	5840	00-L10391	Amplifier
L10392	5985	00-L10392	Antenna Assembly
L10441	5840	00-L10441	Amplifier RF
L12864	5340	00-L12864	Bushing Telescoping
L12865	5340	00-L12865	Bushing Telescoping
L12866	3110	00-L12866	Bearing
L15135	5840	00-L15135	Codes Decoder
L15158	5840	00-L15158	Control Unit
L15249	5950	00-L15249	Coil RF
L15250	5950	00-645-0542	Coil RF
L15254	5330	00-L15254	Gasket Plate Cover
L15255	5820	00-L15255	Spring Coil
L15256	5820	00-L15256	Spring
L15257	5895	00-L15257	Spring Clip
L15258	5895	00-L15258	Spring Clip
L15259	5895	00-L15259	Spring Clip Flat
L15271	5940	00-L15271	Contact Sub-Assembly
L15294	5960	00-L15294	Can Valve Screening ventilated B9A with up retaining spring 1½-in. high
L21757	5840	00-L21757	Decoder
L21776	5985	00-L21776	Dummy Load
L22915	5920	00-L22915	Fuse 2 Amp
L23796	5330	00-L23796	Gasket Louvre
L23797	3020	00-L23797	Gear
L23798	3020	00-L23798	Gear
L23799	5330	00-L23799	Insulator Gasket
L23816	5330	00-L23816	Gasket
L23817	5330	00-L23817	Gasket
L23818	5330	00-L23818	Gasket
L23819	5330	00-L23819	Gasket
L24572	5920	00-L24572	Fuseholder
L25165	6210	00-L25165	Light Indicator
L25166	6210	00-L25166	Light Indicator
L25167	5970	00-L25167	Insulator Feeder
L25168	5970	00-L25168	Insulator Radiator
L25169	5970	00-L25169	Insulator Feeder
L25170	5970	00-L25170	Insulator Feeder
L25171	5970	00-L25171	Insulator Feeder
L26571	5940	00-L26571	Board
L26572	5940	00-L26572	Board
L26575	5940	00-L26575	Board
L26577	5940	00-L26577	Board
L26578	5940	00-L26578	Board
L26580	5940	00-L26580	Board
L26582	5940	00-L26582	Board
L26583	5940	00-L26583	Board

APPENDIX B—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
0623/L26584	594C	00-L26584	Board
L26585	5940	00-L26585	Board
L26586	5940	00-L26586	Board
L26587	594C	00-L26587	Board
L26588	5940	00-L26588	Board
L26589	5940	00-L26589	Board
L26590	5940	00-L26590	Board
L26592	5940	00-L26592	Board
L26593	5940	00-L26593	Board
L28289	6210	00-L28289	Lens, Clear
L28290	6210	00-L28290	Lens, Green
L28291	6210	00-L28291	Lens, White
L28292	6210	00-L28292	Lamp Glow
L28296	6240	00-L28296	Lamp Tungsten Sol No. 47 15 A 6 V
L29034	6105	00-L29034	Motor Generator
L31204	6625	00-L31204	Pedestal Unit Test Dippe
L31286	5935	00-L31286	Plug Connector
L31297	5970	00-L31297	Pin
L31302	5970	00-L31302	Pin Insulator
L31303	5970	00-L31303	Pin Input
L42637	5930	00-L42637	Switch Toggle
L42638	5930	00-L42638	Switch Rotary
L42639	5970	00-L42639	Spacer Insulation
L42640	5970	00-L42640	Spacer Insulation
L42641	5970	00-L42641	Spacer Insulation
L42642	5970	00-L42642	Spacer Insulation
L42643	5970	00-L42643	Spacer Insulation
L42644	5820	00-L42644	Spring
L42645	5820	00-L42645	Spring
L42646	5820	00-L42646	Spring
L42647	5820	00-L42647	Spring
L42648	5820	00-L42648	Spring
L42649	5970	00-L42649	Strip Insulators
L42650	5970	00-L42650	Strip
L42651	5970	00-L42651	Strip
L42652	5820	00-L42652	Spring
L42653	5930	00-L42653	Switch
L45859	5840	00-L45859	Receiver Transmitter
L45861	5840	00-L45861	Receiver Transmitter
L45934	5935	00-L45934	Socket Tube
L45936	5960	00-L45936	Retainer Tube
L45987	5950	00-L45987	Transformer
L60000	5820	00-L60000	Amplifier
L60001	5840	00-688-6738	Amplifier
L60002	5840	00-688-6983	Amplifier
L60003	5840	00-682-3098	Amplifier
L60004	5840	00-226-2127	Amplifier Trigger PV
L60005	5840	00-L60005	Assembly MT 1 VIDEO

APPENDIX B—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
0623/L60006	5895	00-066-7224	Attenuator Variable
L60010	5840	00-688-7513	Band Circulator
L60011	5840	00-688-7514	Band Circulator
L60012	5840	00-L60012	Board Component
L60015	5910	00-60015	Capacitor Fixed
L60016	5840	00-015-1282	Case Delay Line
L60017	5840	00-868-3080	Chassis Assembly
L60018	5840	00-986-8716	Choke Assembly
L60019	5840	00-L60019	Coil Focus
L60020	5820	00-869-1106	Comp Signal
L60021	5935	00-590-2230	Connector Coaxial
L60022	5935	00-590-2231	Connector Rec
L60023	5985	00-869-5212	Coupling Directional
L60027	5840	00-633-6177	Delay Line
L60028	5985	00-760-3518	Directional Coupler
L60029	5840	00-688-6739	Driver Delaying
L60032	5840	00-L60032	Fault Processor
L60033	5915	00-L60033	Filter
L60034	5915	00-014-2553	Filter Assembly
L60037	5840	00-682-3013	Gate Electrical
L60038	5840	00-682-3093	Gate Electrical
L60039	5840	00-L60039	Gating Assembly
L60042	5840	00-L60042	Isolator
L60044	5840	00-688-6737	Main Assembly
L60045	5840	00-869-0757	Manifold
L60046	5840	00-L60046	Memory Assembly
L60047	5840	00-60047	Micro Wave Assembly
L60048	5840	00-996-0736	Mixer Amplifier
L60049	5840	00-868-3082	Modulator
L60050	5840	00-L60050	Monitor Purity
L60051	5840	00-L60051	Monitor Remote
L60052	5840	00-L60052	Motor Generator
L60056	5840	00-682-3072	Oscillator
L60059	6130	00-868-8535	Power Sup-Pre Amplifier
L60060	5950	00-682-3266	Pulse Transformer
L60063	5840	00-L60063	Reader Spooler
L60064	5840	00-L60064	Reader Spooler
L60065	5840	00-226-2126	Regulator Assembly
L60066	6110	00-869-0749	Regulator Voltage
L60067	5820	00-L60067	Regulator Voltage
L60068	6110	00-868-8537	Regulator Voltage
L60073	5840	00-682-3008	Sens Time Control
L60074	5935	00-794-2843	Socket
L60075	5895	00-066-7222	Strip Line Assembly
L60076	5990	00-L60076	Synchro Transformer
L60079	5940	00-L60079	Terminal Board Assy.
L60080	5940	00-L60080	Termination
L60081	6120	00-L60081	Transformer
L60082	6120	00-60082	Transformer

APPENDIX B—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
0623/L60083	6120	00-L60083	Transformer Assembly
L60084	5950	00-878-8858	Transformer Power
L60085	5950	00-954-0847	Transformer Power
L60086	6120	00-L60086	Transformer Power
L60087	6120	00-L60087	Transformer Power
L60088	5840	00-L60088	Typewriter
L60092	6625	00-869-2381	Voltmeter
L60093	6625	00-869-2382	Voltmeter
L60096	5985	00-60096	Wave Guide Flexible
L60097	5985	00-60097	Wave Guide Mounting

APPENDIX C

Abridged Federal Stock Numbers

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
3020-294-4551	3020	00-294-4551	Gear
3020-294-5551	3020	00-294-5551	Gear
3040-383-0312	3040	00-383-0312	Shaft
3110-155-8434	3110	00-155-8434	Bearing
3110-799-7370	3110	00-799-7370	Bearing Roller
4130-387-6663	4130	00-387-6663	Cleaner Element
5120-293-3128	5120	00-293-3128	Straightener
5120-565-4859	5120	00-565-4859	Straightener
5305-208-9417	5305	00-208-9417	Screw Captive
5305-568-2318	5305	00-568-2318	Screw Captive
5310-005-0036	5310	17-005-0036	Washer Spring
5310-005-0957	5310	17-005-0957	Washer
5310-005-0983	5310	17-005-0983	Ring
5310-005-0985	5310	17-005-0985	Ring
5310-297-7752	5310	00-297-7752	Bushing
5310-596-0506	5310	00-596-0506	Nut
5325-879-8980	5325	00-879-8980	Grommet
5330-005-0955	5330	17-005-0955	Plexiglass
5330-005-0956	5330	17-005-0956	Washer
5330-345-6189	5330	00-345-6189	Washer, Flat, Slotted-Insulator
5340-005-1034	5340	17-005-1034	Spring
5340-005-1052	5340	17-005-1052	Spring
5340-005-4225	5340	17-005-4225	Spring for Brake Shoe McTerovick
5340-301-0024	5340	00-301-0024	Handle
5340-372-1750	5895	00-372-1750	Bushing
5340-597-6844	5340	00-597-6844	Mount
5355-284-4551	5355	00-284-4551	Knob
5355-284-4569	5355	00-284-4569	Knob
5355-644-4031	5355	00-644-4031	Knob
5820-318-4428	5820	00-318-4428	Amplifier

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
5840-301-6352	5840	00-301-6352	Housing
5840-308-4551	5840	00-308-4551	RF Head
5840-308-5204	5840	00-308-5204	Contact
5840-310-9927	5840	00-310-9927	Pulse Delay
5840-311-5587	5840	00-311-5587	Piston
5840-312-7144	5840	00-312-7144	Shaft
5840-315-2407	5840	00-315-2407	Gate Assembly
5840-325-6293	5840	00-325-6293	Control Unit
5840-368-3863	5840	00-368-3863	Contact
5840-372-4852	5840	00-372-4852	Shim
5840-548-7644	5840	00-548-7644	Delay Line
5840-636-3445	5840	00-636-3445	Cylinder Plate
5840-665-0026	5840	00-665-0026	Amplifier
5840-665-2098	5840	00-665-2098	Network Pulse
5840-669-7310	5840	00-669-7310	Video Amplifier
5840-699-3121	5840	00-699-3121	Housing
5840-896-3607	5840	00-896-3607	Chassis Assembly
5840-986-0286	5840	00-986-0286	Strip Line Assembly
5840-986-7401	5840	00-986-7401	Diplexer
5895-308-4911	5895	00-308-4911	Connector Capacitor Choke Assy
5895-311-5589	5895	00-311-5589	Piston
5895-325-7392	5895	00-325-7392	Lever
5895-325-7700	5895	00-325-7700	Piston
5895-332-8664	5895	00-332-8664	Bracket
5895-346-4655	5895	00-346-4655	Field Change No. 1
5895-568-2729	5895	00-568-2729	Cavity
5895-693-4669	5895	00-693-4669	Clip
5910-236-2622	5910	00-236-2622	Clamp
5910-313-2901	5910	00-313-2901	Clamp
5910-666-0087	5910	00-666-0087	Clamp
5910-666-0297	5910	00-666-0297	Clamp
5915-330-6752	5915	00-330-6752	Filter
5915-376-8930	5915	00-376-8930	Filter RI
5915-537-7247	5915	00-537-7247	Filter
5915-590-2124	5915	00-590-2124	Filter RI
5915-643-8318	5915	00-643-8318	Filter
5915-643-8377	5915	00-643-8377	Suppressor Coil
5915-699-3134	5915	00-699-3134	Network
5920-043-2641	5920	00-043-2641	Fuse
5920-075-5726	5920	00-075-5726	Thyrite Assembly
5920-156-4472	5920	00-156-4472	Fuseholder
5920-199-9470	5920	00-199-9470	Fuse Cartridge 15 amp.
5920-243-3787	5920	00-243-3787	Fuse
5920-280-4466	5920	00-280-4466	Fuse Cartridge 2 amp.
5920-280-4960	5920	00-280-4960	Fuse
5920-284-7773	5920	00-284-7773	Fuseholder
5920-295-7787	5920	00-295-7787	Fuse 5 amp.
5920-295-9557	5920	00-295-9557	Fuse 5 amp.

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
5920-296-3290	5920	00-296-3290	Fuseholder
5920-538-0208	5920	00-538-0208	Fuse
5920-538-3112	5920	00-538-3112	Fuse Cartridge 1 amp.
5920-553-4843	5920	00-553-4843	Fuse
5920-583-8486	5920	00-583-8486	Fuse
5920-636-0964	5920	00-636-0964	Fuse
5930-049-8928	5930	00-049-8928	Switch
5930-050-2627	5930	00-050-2627	Switch
5930-050-2638	5930	00-050-2638	Switch
5930-050-2680	5930	00-050-2680	Switch
5930-050-2684	5930	00-050-2684	Switch
5930-050-2685	5930	00-050-2685	Switch
5930-050-2704	5930	00-050-2704	Switch
5930-050-2711	5930	00-050-2711	Switch
5930-108-7126	5930	00-108-7126	Switch
5930-201-9584	5930	00-201-9584	Switch
5930-201-9906	5930	00-201-9906	Switch
5930-249-4575	5930	00-249-4575	Switch
5930-255-5802	5930	00-255-5802	Switch
5930-259-7224	5930	00-259-7224	Switch
5930-259-7225	5930	00-259-7225	Switch
5930-259-9410	5930	00-259-9410	Switch
5930-259-9525	5930	00-259-9525	Switch
5930-259-9526	5930	00-259-9526	Switch
5930-296-4370	5930	00-296-4370	Switch
5930-412-1555	5930	00-412-1555	Switch
5930-548-7901	5930	00-548-7901	Switch
5930-615-7897	5930	00-615-7897	Switch
5930-644-3224	5930	00-644-3224	Switch
5930-655-1513	5930	00-655-1513	Switch
5930-655-1517	5930	00-655-1517	Switch
5935-173-5895	5935	00-173-5895	Plug UG 260 B/V
5935-173-7812	5935	00-173-7812	Socket
5935-196-2234	5935	00-196-2234	Plug 5 way
5935-196-4689	5935	00-196-4689	Adapter right angle
5935-201-8150	5935	00-201-8150	Adaptor UG 212 A/U
5935-201-8151	5935	00-201-8151	Adaptor
5935-201-8529	5935	00-201-8529	Valve-holder
5935-204-3756	5935	00-204-3756	Socket Tube Miniature
5935-204-6094	5935	00-204-6094	Receptacle
5935-222-9828	5935	00-222-9828	Socket Tube
5935-232-3758	5935	00-232-3758	Socket
5935-237-3964	5935	00-237-3964	Plug
5935-248-9496	5935	00-248-9496	Adaptor
5935-250-7813	5935	00-250-7813	Plug
5935-255-0964	5935	00-255-0964	Socket Tube
5935-257-9344	5935	00-257-9344	Socket
5935-258-1470	5935	00-258-1470	Valve Socket
5935-259-3045	5935	00-259-3045	Shielding Cap

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
5935-259-7133	5935	00-259-7133	Plug
5935-500-7307	5935	00-500-7307	Adaptor TE
5935-513-9606	5935	00-513-9606	Plug
5935-539-2045	5935	00-539-2045	Jack
5935-543-8065	5935	00-543-8065	Connector Plug
5935-549-1217	5935	00-549-1217	Socket Tube
5935-549-1304	5935	00-549-1304	Socket Tube
5935-549-7816	5935	00-549-7816	Valve Socket
5935-552-6842	5935	00-552-6842	Jack, Panel Mounting
5935-577-8734	5935	00-577-8734	Connector
5935-617-9730	5935	00-617-9730	Jack Connector UG 59/U
5935-642-0748	5935	00-642-0748	Adaptor UG 27 A/U
5935-642-5788	5935	00-642-5788	Jack Panel
5935-644-7810	5935	00-644-7810	Adaptor
5935-666-0234	5935	00-666-0234	Socket
5935-725-0927	5935	00-725-0927	Receptacle
5940-109-2597	5940	00-109-2597	Board
5940-117-0994	5940	00-117-0994	Board
5940-117-1014	5940	00-117-1014	Board
5940-151-4027	5940	00-117-4027	Contact Clip
5940-151-4031	5940	00-151-4031	Contact
5940-151-4045	5940	00-151-4045	Top Connector
5940-171-0021	5940	00-171-0021	Board
5940-171-0225	5940	00-171-0225	Board
5940-171-0542	5940	00-171-0542	Board
5940-179-1301	5940	00-179-1301	Board
5940-201-5663	5940	00-201-5663	Board
5940-204-7565	5940	00-204-7565	Board
5940-204-8806	5940	00-204-8806	Board
5940-237-8834	5940	00-237-8834	Board
5940-244-9524	5940	00-244-9524	Board
5940-246-2690	5940	00-246-2690	Board
5940-248-5239	5940	00-248-5239	Clip
5940-258-4471	5940	00-258-4471	Board
5940-270-9032	5940	00-270-9032	Board
5940-272-3708	5940	00-272-3708	Terminal
5940-549-2890	5940	00-549-2890	Board
5940-549-7923	5940	00-549-7923	Board
5940-578-2981	5940	00-578-2981	Clip
5940-642-2080	5940	00-642-2080	Board
5945-249-9805	5945	00-249-9805	Relay
5945-252-2808	5945	00-252-2808	Relay
5945-254-6260	5945	00-254-6260	Relay
5945-257-6915	5945	00-257-6915	Relay
5945-257-6950	5945	00-257-6950	Relay (Supplied in lieu of 5945-00-257-6956)
5945-257-6956	5945	00-257-6956	Relay
5945-259-0982	5945	00-259-0982	Relay
5945-259-1273	5945	00-259-1273	Coil Solenoid

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
5945-263-1509	5945	00-263-1509	Relay
5945-272-3432	5945	00-272-3432	Solenoid
5945-312-8261	5945	00-312-8261	Relay
5945-539-4177	5945	00-539-4177	Relay
5950-049-8430	5950	00-049-8430	Coil
5950-049-8431	5950	00-049-8431	Coil
5950-086-4864	5950	00-086-4864	Transformer PWR
5950-239-5133	5950	00-239-5133	Suppressor
5950-250-1128	5950	00-250-1128	Suppressor
5950-263-1687	5950	00-263-1687	Coil
5950-263-1710	5950	00-263-1710	Coil
5950-265-0176	5950	00-265-0176	Coil
5950-265-5658	5950	00-265-5658	Coil
5950-296-1355	5950	00-296-1355	Coil
5950-296-5280	5950	00-296-5280	Transformer
5950-296-5281	5950	00-296-5281	Transformer
5950-313-4537	5950	00-313-4537	Transformer
5950-539-6778	5950	00-539-6778	Transformer
5950-568-1788	5950	00-568-1788	Reactor
5950-568-2190	5950	00-568-2190	Transformer Pulse
5950-615-9747	5950	00-615-9747	Transformer Power
5950-617-4807	5950	00-617-4807	Transformer Power
5950-645-0148	5950	00-645-0148	Transformer
5950-645-0574	5950	00-645-0574	Transformer
5950-645-0575	5950	00-645-0575	Transformer
5950-645-1076	5950	00-645-1076	Reactor
5950-645-1343	5950	00-645-1343	Reactor
5950-645-1344	5950	00-645-1344	Reactor
5950-645-2189	5950	00-645-2189	Transformer
5950-645-2419	5950	00-645-2419	Coil
5950-645-2464	5950	00-645-2464	Coil
5950-645-6203	5950	00-745-6203	Transformer
5950-645-6882	5950	00-645-6882	Transformer
5950-645-6961	5950	00-645-6961	Transformer
5950-647-5053	5950	00-647-5053	Transformer
5950-647-5057	5950	00-647-5057	Transformer
5950-647-5075	5950	00-647-5075	Transformer
5950-647-5189	5950	00-647-5189	Transformer
5950-647-5299	5950	00-647-5299	Transformer
5950-647-5556	5950	00-647-5556	Coil
5950-647-5831	5950	00-647-5831	Transformer
5950-647-5872	5950	00-647-5872	Transformer
5950-647-6425	5950	00-647-6425	Reactor Coil
5950-647-6680	5950	00-647-6680	Transformer
5950-647-7089	5950	00-647-7089	Reactor
5950-647-7109	5950	00-647-7109	Reactor
5950-647-8583	5950	00-647-8583	Transformer
5950-647-8585	5950	00-647-8585	Transformer
5950-647-8965	5950	00-647-8965	Transformer

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
5950-647-9204	5950	00-647-9204	Coil
5950-648-0684	5950	00-648-0684	Coil
5950-648-0904	5950	00-648-0904	Coil
5950-648-1234	5950	00-648-1234	Coil
5950-692-7223	5950	00-692-7223	Coil
5950-712-3159	5950	00-712-3159	Coil Tube
5950-767-5087	5950	00-767-5087	Transformer Power
5950-822-2531	5950	00-822-2531	Transformer Power
5950-822-2542	5950	00-822-2542	Transformer Power
5950-822-2544	5950	00-822-2544	Transformer Power
5950-834-9253	5950	00-834-9253	Transformer Power
5950-852-9481	5950	00-852-9481	Transformer Power
5950-857-4381	5950	00-857-4381	Transformer Power
5950-865-5017	5950	00-865-5017	Transformer Power
5950-878-8859	5950	00-878-8859	Transformer Power
5950-953-5104	5950	00-953-5104	Transformer Power
5960-151-7562	5960	00-151-7562	Retainer
5960-151-7574	5960	00-151-7574	Retainer
5960-170-4091	5960	00-170-4091	Retainer
5960-249-4915	5960	00-249-4915	Retainer
5960-249-4973	5960	00-249-4973	Retainer
5960-259-7787	5960	00-259-7787	Contact Clip
5960-262-0015	5960	00-262-0015	Shield
5960-264-3004	5960	00-264-3004	Shield
5960-272-9094	5960	00-272-9094	Shield
5960-295-7652	5960	00-295-7652	Shield
5960-387-6268	5960	00-387-6268	Retainer
5960-636-4415	5960	00-636-4415	Retainer
5960-642-4318	5960	00-642-4318	Clip
5960-665-2220	5960	00-665-2220	Retainer
5960-669-8808	5960	00-669-8808	Shield
5985-295-9850	5985	00-295-9850	Load Dummy
5985-296-1714	5985	00-296-1714	Aerial 10-in.
5985-296-1716	5985	00-296-1716	Test Prod
5985-296-1978	5985	00-296-1978	Antenna Assembly
5985-328-7879	5985	00-328-7879	Antenna Set
5985-387-2838	5985	00-387-2838	Line RF
5995-383-5195	5995	00-383-5195	Contact Assembly
5995-501-7821	5995	00-501-7821	Contact
6105-643-3633	6105	00-643-3633	Motor AC
6105-769-1106	6105	00-769-1106	Motor Assembly
6120-727-2688	6120	00-727-2688	Transformer Pulse
6130-568-9889	6130	00-568-9889	Rectifier
6130-635-3455	6130	00-635-3455	Rectifier
6130-643-2149	6130	00-643-2149	Rectifier
6210-174-8912	6210	00-174-8912	Lens Clear
6210-231-4681	6210	00-231-4681	Indicator Light Assembly
6210-233-5340	6210	00-233-5340	Indicator Light Assembly
6210-299-7508	6210	00-299-7508	Lampholder

APPENDIX C—continued

Old Identification No.	Group/Class	New Identification No. Catalogue No.	Item Name
6210-250-5470	6210	00-250-5470	Lens, Red
6210-270-4202	6210	00-270-4202	Lens, Blue
6210-299-4327	6210	00-299-4327	Lampholder
6240-155-8706	6210	00-155-8706	Lamp
6240-179-1812	6210	00-179-1812	Lamp, Glow
6250-158-8959	6250	00-158-8959	Light, Pilot
6625-324-4396	6625	00-324-4396	Probe RF
6625-643-3054	6625	00-643-3054	Ammeter
6680-171-9486	6680	00-171-9486	Counter
6680-290-0221	6680	00-290-0221	Counter Mechanical
6940-856-8176	6940	00-856-8176	Trainer Radar Signal
6940-856-9906	6940	00-856-9906	Trainer Radar Signal
6940-856-9908	6940	00-856-9908	Trainer Radar Signal

(DSAP 519/58/258)

RESTRICTED

75—NBCD—Control Markings—Hinged Watertight Covers to AFU's

Failure to open the hinged watertight covers to air filtration units when closing down, will result in lack of filtered air to build up citadel pressure, and also cause damage to the fan in the air filtration unit.

2. To ensure that the units are run correctly the weather deck hinged watertight covers to the AFUs are to be marked on both sides " OPEN IN ALFA ", the marking to be added in $\frac{1}{4}$ inch letters immediately below the " M " marking on the cover.

3. Stencilled, painted or transfer lettering or engraved plastic tallies may be used as an interim measure pending the introduction of embossed aluminium alloy tallies.

4. BR 2170 will be amended in due course.

(PNA 1211/251/179)

UNCLASSIFIED

76—Shorts, Woman's, Blue, PT

New pattern shorts, woman's, blue, PT incorporating improved style and material and of royal blue colour have been introduced to replace the existing pattern.

2. Supplies are available on demand from Royal Edward Victualling Yard and will be accounted for in Clothing Group V6 (D) under the following headings—

Catalogue No. 61771/1 Shorts, woman's, blue, PT size 24-in.

Catalogue No. 61772/1 Shorts, woman's, blue, PT size 26-in.

Catalogue No. 61773/1 Shorts, woman's, blue, PT size 28-in.

Catalogue No. 61774/1 Shorts, woman's, blue, PT size 30-in.

Catalogue No. 61775/1 Shorts, woman's, blue, PT size 32-in.

Catalogue No. 61776/1 Shorts, woman's, blue, PT size 34-in.

3. The issuing price will be \$1.96 per pair.

(D of V 917/100/56)

RESTRICTED

77

24

Section 7

CANCELLED LIST

UNCLASSIFIED

77—Cancellation of Navy Orders

The following navy orders, having been incorporated into RI (ABR 5016) by Amendment 13, are hereby cancelled—

Navy Order Cancelled

Superseded by RI Article

1965

165 ✓

176 ✓

206 ✓

249 ✓

287 -

466 ✓

535 -

617 ✓

722 -

6211

Appendix 45A

6053A

6120

5608

1909A

2101A

2109A

2120A

4963

4962

1625

(CEO (GS) 465/7/4)

By Authority: A. J. ARTHUR, Commonwealth Government Printer, Canberra

RESTRICTED

RESTRICTED

ANO's 78-90/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
27th February, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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RESTRICTED

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SECTION 5—BOOKS, CORRESPONDENCE, FORMS AND STATIONERY	
90	Naval Air Stores—Publications—Withdrawal of Publications Relating to Sycamore Aircraft.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

78—Naval Technical Services Branch—Aircraft Engineering—Australian Naval Aircraft Modifications Committee—Terms of Reference and Composition

Consequent on the re-organization of administration of aircraft engineering in the RAN, the Australian Naval Aircraft Modification Committee is to be reconstituted under the chairmanship of the Superintendent of Aircraft Maintenance and Repair and will convene at Northgate House, Kent Street, Sydney at fortnightly intervals or at intervals agreed in accordance with the volume of business.

2. The Australian Naval Aircraft Modification Committee (short title ANAMC) has been instituted by the Naval Board to examine and review all proposals for modifications to aircraft, power plants, aero-engines and ancillary equipment utilized in connection with aviation in the RAN.

3. Subject, when appropriate, to confirmation by Naval Staff of a requirement and to confirmation by the directors concerned that funds are available, the ANAMC decides which modifications are to be adopted and classifies them. The ANAMC also determines the methods for implementation of the agreed decisions and consequential amendments to air publications required.

4. Modifications are classified into categories detailed in AP (RAN) 102 Issue 2, Clauses 263-275.

5. The ANAMC is the highest technical authority in the RAN on all questions concerning modifications to aircraft and air equipment. The decisions of the ANAMC are the authority for action by divisions and branches except in cases where Naval Staff policy is involved, (e.g., a major departure from modification standard, or where the overall cost of the modification to the Department is estimated to exceed \$40,000), when the approval of the Naval Board is to be sought before action is initiated.

6. Directors of divisions and branches on whose votes expenditure on approved modifications is borne will obtain approval in the normal course for expenditure of money in those instances where the amount involved exceeds their delegation.

7. The ANAMC is authorised to decide the number of modification sets required and the decisions contained in the minutes are the authority for DNS or D of S (Air) to take necessary action, within their delegations, to place orders for sets.

8. The ANAMC may authorise trial installations as necessary subject to the availability of funds.

9. The permanent members of ANAMC are—

- SAMR (Chairman).
- Maintenance Standards Officer.
- Chief Engineer.
- Senior Electrical Engineer.
- Senior Mechanical Engineer.
- Modifications Controller (Secretary)
- DNAP or his representative.
- D of S (Air) or his representative.
- DNS or his representative.

Other specialist officers may be co-opted when appropriate.

10. Agenda will be produced as far in advance as possible to minimize travel of Central Office personnel.

(AS (NS) 8/252/102)

UNCLASSIFIED

79—RI—Quarterly List of Navy Orders Affecting

With reference to Page vi of RI, the following list shows those navy orders in force on 31st December, 1966, which amend or amplify RI (as corrected up to Amendment No. 13)—

RI Article	Navy Order	RI Article	Navy Order
Chapter 1 Sec IV	272/1965	5209	676/1965
0347	691/1965	5211	653/1965
Chapter 5	171/1965	5801	224/1965
	710/1965	6037	109/1966
	711/1965	6038	
	742/1965	6246	739/1965
	117/1966		
0505	628/1965	App 4A	323/1966
		4B	483/1965
		10A	174/1965
		10B	{ 621/1965 756/1965
0806	653/1965		
0823	7/1966		
0845	605/1966		
0846	610/1966		
1023	571/1966		
1071	378/1966		
1072	296/1965	5A	{ 497/1966 498/1966
1122	575/1965		
1232	634/1965		
1452	475/1965		
	538/1965		
1624	616/1966		
1704	393/1965		
1862A	350/1965		
1914	690/1966		
1957	670/1966		
1957A			
2605	779/1965		
3142	245/1966		
3223	135/1965		
4487	487/1966		
4909	619/1965		

2. Navy Order 440 of 1966 is hereby cancelled.

(Navy Order 440 of 1966)

(CEO (GS) 465/3/4)

Section 2 PERSONNEL

UNCLASSIFIED

80—Jewish Faith—Sacred Festivals, 1967

(DCI (RN) 1600/1966)

Subject to the exigencies of the Service, leave of absence may be granted to Royal Australian Naval personnel belonging to the Jewish Faith who may desire to observe the following festivals in 1967—

Festival of Passover	..	25th April to 2nd May (inclusive).
Festival of Pentecost	..	14th to 15th June.
New Year	..	5th and 6th October.
Day of Atonement	..	14th October.
Festival of Tabernacles	..	19th and 20th October and 26th and 27th October.

2. Leave should be granted, if possible, so as to enable those concerned to reach their designations by sunset on the previous day in each case.

3. Navy Order 86 of 1966 is hereby cancelled.

(HPB 319/1/8)

(Navy Order 86 of 1966)

UNCLASSIFIED

81—Officers—Zones for Promotion in the Royal Australian Navy

The title of Navy Order 671 of 1966 is to be amended to read as above.

(DOA 316/4/21)

(Navy Order 671 of 1966)

UNCLASSIFIED

82—Results of Passing Out and Higher Education Test— HMAS LEEUWIN—December, 1966

The pass marks obtained by Junior Recruits at the Passing Out and Higher Educational Tests held in HMAS LEEUWIN are shown in the appendix to this order.

2. The results of the above test have been adjusted to the HET standard and the sailors mentioned in the appendix have been granted passes in the subjects indicated.

3. Commanding Officers are to ensure that the Certificates of Service of those concerned are noted in the appropriate section.

APPENDIX

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HMAS LEEUWIN

Passing Out Results—December, 1966

Name	Rank	P/N	III Geog.	IV Nav.	V Math.	VII Mag. & Elec.	VIII Eng. Exp.	Remarks
ARCHER, Rex S.	ORDEMA	R95188	72	82	61	63	61	QSD
ASHFORD, Dale J.	ORDME	R95193	56					
BARHAM, Gregory C.	ORDEM	R95198		55			51	
BAUGH, Roger K.	ORDCK	R95201	54					
BEDFORD, Barry J.	ORDCK	R95202		57				
BENNETT, Kenneth T.	ORDEM	R95203		58	90			
BOLGER, Mark A.	TOPMAN	R95204			59			
BOYLE, Stephen K.	ORDRP	R95208		58				
BRANDIS, Garry M.	ORDEM	R95210	68	71	79	66	54	QSD
BRINCKMAN, Kenneth C.	ORDEMA	R95212	69	62	81	51	53	QSD
BURROWS, Steven R.	ORDEM	R95217	66	72	62	51	57	QSD
BUTTERWORTH, Robert S.	TOPMAN	R95219			55			
BUTLER, Peter R.	ORDEMA	R95218	51	50	86	51	72	QSD
CAVANAGH, Monte F.	ORDME	R95222	53	67				
CRAGGS, Leslie G.	ORDWM	R95229					56	
CURYER, Allan R.	ORDUC	R95234		73				
DAVIES, Bruce	ORDEMA	R95235		63				
DOW, Alan D.	ORDEM	R95240		55				
DUBBELD, Daniel A.	ORDCD	R95243	54	58				
EVANS, Gregory C.	ORDCD	R95247		63				
EVELYN-LIARDET, David R.	ORDME	R95303	50					
FERRES, Paul J.	ORDME	R95251		62				
FINLAY, John M.	ORDEM	R95252		53				
GREAVES, Terry O.	ORDCO	R95263		56				
GREEN, John R.	ORDRP	R95264		53				

GRIMSEY, Richard G.	ORDNAM	R95265	51	74	58			
HAW, Ian P.	ORDUC	R95270		56				
HAWES, Lindsay M.	ORDCO	R95271		50				
HEINZE, Gary D.	ORDRP	R95273	51		51			
HILDER, Peter R.	ORDEM	R95274		57				
HODSON, Robin E.	ORDEM	R95279		52				
HOLDING, Paul A.	ORDCO	R95281		55				
HOLLOW, Thomas P.	ORDEM	R95282	50	55			50	
HOOF, Ian T.	ORD	R95120			61			
HUNTER, Ronald W.	TOPMAN	R95124			52			
JAMES, Terry	ORDME	R95285		53				
KANN, Robert H.	ORDCO	R95292	76	56			54	
KIRKWOOD, Neil R.	ORDCO	R95295		72	78			
LITTLE, Peter F.	ORDUC	R95304					50	
LUTZE, Peter D.	ORDEM	R95305	50	53				
McDERMOTT, Peter R.	ORDEM	R95311		63				
McGUIRE, Derek J.	ORDEM	R95314	61	67	64	53	59	QSD
McILWAIN, Robert	ORDNA	R95315	50					
McLELLAN, Robert W.	ORDCO	R95317		58				
MEEHAN, Lindsay J.	ORDWM	R95319	51					
MILLS, Andrew J.	ORDCO	R95320	59	53	51		52	QSD
NAUGHTON, Alan D.	ORDME	R95326		65				
NAVIN, Mark	ORDCO	R95327	61	69	86		70	QSD
NOTHDURFT, John F.	ORDCO	R95329	55	54	50		50	QSD
O'BRIEN, Kevin J.	ORDCK	R95330		56			50	
PARKER, Phillip J.	TOPMAN	R95334			69			
PURVEY, Allan N.	ORDCO	R95337		55				
REILLY, Paul A.	ORDUW	R95340		56			58	
SINFIELD, Peter R.	ORDWM	R95350	65	52	64	51	62	QSD
SMITH, Colin H.	ORDEM	R95352	51		50	54	65	QSD
SMITH, Martin C.	ORDEM	R95353	52	61	60		58	
SMITH, Michael K.	ORDRP	R95354		56				
SPRYLAN, Anthony J.	ORDQMG	R95356		54				

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Name	Rank	P/N	III Geog.	IV Nav.	V Math.	VII Mag. & Elec.	VIII Eng. Exp.	Remarks
THURGOOD, Raymond	ORDCO	R95363		61				
THURLEY, Paul	ORDSTD	R95364					52	
TURNER, Martin R.	TOPMAN	R95365		75	78			
VAN TRIGT, Jacob	ORDRP	R95366	51	69			50	
WALLACE, Ronald C. C.	ORDEM	R95371	60	53	66		56	QSD
WALTON, Robert R.	ORDCO	R95372	54	52				
WHITER, John W.	ORDME	R95374		64			50	
WILLEY, Brian J.	ORDCO	R95376						
WILLIAMS, Charles E. L.	ORDRP	R95377	51					
WILLIAMSON, Wayne	ORDNA	R95379		55				
WITHERS, Rodney J.	ORDCO	R95382		70				
WOODS, John E.	ORDEMA	R95383	50	59			55	
ZAGAMI, Frederick P.	ORDEM	R95386	53					

(HPB 325/53/17)

UNCLASSIFIED

83—Sailors—Transfer of Tradesmen to Artificer Categories

The Naval Board desire to bring to the attention of all concerned the fact that vacancies for tradesmen exist in the artificer categories and to emphasise that every encouragement should be given to suitable volunteers in order to reduce shortages in these categories. Transfers to the Naval shipwright category are not required, as the manning situation in that branch is very good.

2. Transfer to acting ERA 2nd class is available to serving sailors who have completed indentured training as—

Fitters and Turners	Diesinkers and Diemakers
Fitters and Machinists	Motor Mechanics
Boilermaker Welders	Automotive Engineers
Coppersmiths	Enginesmiths
Refrigeration Mechanics	Fitters
Diesel Engine Fitters	Toolmakers
Turbine Blade Fitters	

3. The names of those sailors who are volunteers for transfer and who fulfil the following requirements are to be reported to the Naval Board with Captain's recommendations—

- must have successfully completed an apprenticeship in one of the trades listed in Paragraph 2 of this order and be in possession of Certificate of Indenture or other relevant trade certificates;
- must have been aptitude tested by a Naval Psychologist;
- must have passed the Naval trade test for his trade;
- must be medically fit.

The trade certificates and report by the Naval Psychologist are to be forwarded to the Naval Board with the Captain's recommendation.

4. In addition, transfer to the Systems Artificer categories is available to the tradesmen listed below—

- Radio tradesmen or technicians with experience in television, telecommunications, radio, radar or industrial electronics.
- Electrical fitters.
- Electrical Mechanics.

5. Because there are different trade requirements for some of the groups listed in Paragraph 4, the names of sailors who gained any of the qualifications listed in that paragraph prior to entry, and who are volunteers for transfer to a Systems Artificer Category are to be reported to the Naval Board with the Captain's recommendation when a decision on further processing in terms of Paragraph 3 above will be made.

6. This order will be reprinted for posting on notice boards.

(DMT 307/4/61)

UNCLASSIFIED

84—Uniformity in Order of Dress Between Australian Services

In order to achieve uniformity, RAN, Army and RAAF personnel serving in the same Australian areas will change over to summer and winter dress on the same date. This date is to be decided locally by Area Commanders and promulgated accordingly.

2. Subject to any subsequent ruling by the Chairman, Chiefs of Staff Committee, the change over of winter and summer dress in Canberra is—

- (a) Summer to winter dress 2nd Monday in April.
 (b) Winter to summer dress last Monday in October.

3. The change over dates for HMA Fleet will continue to be ordered by the Flag Officer Commanding.

4. A uniform order of dress between the Australian Services is detailed in the appendix to this order. The joint Services ceremonial dress table laid down in the appendix to the Navy List (RN) is to be complied with when attending interservice functions, outside Australia, organized by United Kingdom authorities.

APPENDIX A

Orders of Dress

The following are brief summaries of the orders of dress for the Army and RAAF.

(a) Army—

- (i) Blue Ceremonial .. Full ceremonial dress (blue) which includes sword and medals.
 (ii) Ceremonial .. Ceremonial dress (khaki or summer khaki) which includes sword and medals.
 (iii) Mess Undress .. As for blue ceremonial but without sword and medals or dress epaulettes.
 (iv) General Duty .. As for ceremonial but without sword and medals.
 (v) Mess Dress .. Mess dress with which miniatures are worn.

(b) RAAF—

- (i) No. 2A, B and C Dress Full ceremonial dress which includes neck decorations and medals, swords being worn if ordered by RAAF authority. Swords are also worn by officers participating in parades.
 (ii) No. 1A and B Dress .. As for 2A and B dress but without swords or medals. Aiguillettes are worn when ordered.
 (iii) No. 5A Dress .. Mess dress (blue or white mess jacket) with which miniature medals are worn.
 (iv) No. 6A Dress .. Mess undress with which miniature ribbons and cummerbund are worn.

APPENDIX B JOINT SERVICE DRESS TABLE

Occasion	RAN	Army	RAAF
1 Anzac Day ..	4 or 4W	Ceremonial	2A or 2B
2 Audiences, private ..	5 or 5W	General duty	1A or 1B
3 Ball, Service or United Service Institute	2 or 2W	Mess ..	5A or 5C

APPENDIX B—continued.

Occasion	RAN	Army	RAAF
4 Calling—			
(a) Vice-Regal ..	1 or 1W	Blue ceremonial ..	2A or 2B
(b) other ..	1, 1W or 4 (v), 4W(v)	Ceremonial ..	1A or 1B
5 Ceremonial Parades ..	1, 1W or 4, 4W	Ceremonial ..	2A or 2B
6 Church Services ..	5 or 5W	General duty ..	1A or 1B
7 Courts Martial ..	4 or 4W	Ceremonial ..	2A (i) or 2B (i)
8 Day or late afternoon function—			
(a) Vice-Regal ..	5 or 5W	General duty ..	1A or 1B
(b) Service (i) ..	5 or 5W	General duty ..	1A or 1B
9 Dining in a Service Mess—			
(a) formal ..	6 or 6W	Mess dress ..	5A, 5C or 6A, 6C
(b) informal ..	7 or 7W	Mess undress ..	1A or 1B
10 Escorts ..	4 or 4W	Ceremonial ..	2A or 2B
11 Evening function—			
(a) formal at a Vice-Regal Residence or Legislature or when a Lord Mayor is host (ii)	2 or 2W	Mess dress ..	5A or 5C
(b) informal—at the home of an Ambassador, High Commissioner, Consular official or Service attache or at any alternative place			Civilian Clothes
12 Funerals ..	1, 1W or 4, 4W	Ceremonial ..	2A (iii) or 2B (iii)
13 Guards of honour ..	1, 1W or 4, 4W	Ceremonial ..	2A or 2B
14 Investitures—			
(a) Recipients ..	5 or 5W	General duty ..	1A or 1B
(b) Official guests ..	1 or 1W	Blue Ceremonial	2A or 2B
(c) Spectators ..	5 or 5W	General duty ..	1A or 1B
15 Levees ..	1 or 1W	Ceremonial ..	2A or 2B
16 Memorial services—			
(a) indoors (iv) ..	4 or 4W	Ceremonial ..	2A or 2B
(b) outdoors ..	4 or 4W	Ceremonial ..	2A or 2B

APPENDIX B—continued.

Occasion	RAN	Army	RAAF
17 Official public functions—			
(a) being State occasions	1 or 1W	Ceremonial	.. 2A or 2B
(b) not being State occasions	5 or 5W	General duty	.. 1A or 1B
18 Receptions—			
(a) National Days	.. 5 or 5W	General duty or Mess Undress	1A or 1B
(b) Armed Forces day		Civilian Clothes	
19 Remembrance Day	.. 4 or 4W	Ceremonial	.. 2A, 2B or 2C
20 RMC, RANC, RAAFC Graduation parades	1 or 1W	Ceremonial	.. 2A or 2B
21 Review of a parade by an officer of another Service	To conform as closely as possible to the dress of troops/sailors on parade		2A, 2B or 2C
22 Service functions which are also attended by the public—Navy open days, Army tattoos, Air Force week (ii), (iii)	5 or 5W	General duty	.. 1A or 1B
23 Trooping the Colour at RMC	1	Blue Ceremonial	2A
24 Weddings, military (vi)	4 or 4W	Ceremonial	.. 2A or 2B

- Notes— (i) for host service only, other services wear civilian clothes.
(ii) unless the host intimates otherwise.
(iii) if not officiating, dress 1A or 1B.
(iv) without swords.
(v) to be confirmed by NOIC. Dress may be amended as necessary to conform with dress of recipient of call.
(vi) if uniform approved.

(AS (NS) 400/2/163)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

85—Helicopter Control—Policy, Training and Standards Required

Recent alterations to helicopter control rules necessitate the introduction of new titles. In future, controllers, both officers and sailors, will be referred to as Helicopter Controller Grade 2 (HC2) and Helicopter Controller Grade 1 (HC1).

2. Personnel having qualified under the old rules will be recategorised as follows—

Old Title	New Title
HC (P)	HC1
HC (A) and HC (S)	HC2

3. Helicopter control qualifications will be as follows—

- (a) HC2—D, N, d, SD (PR) officers. Also officers and RP sailors who successfully complete the course at HMAS WATSON and pass the practical test at sea.
(b) HC1—officers and RP sailors who reach a high standard of control after suitable sea experience as HC2.

4. Upgrading from HC2 to HC1 may be authorised by—

- (a) The ND School, HMAS WATSON;
(b) The Direction Officer, (D) of HMA ships;
(c) The Direction Officer, (D) of 817 Squadron.

5. Control rules are as follows—

Conditions	Controller	No. of Helos per Controller
(a) Self Control Day or night in all weather	HC1	3
Day (Good weather)	HC2	2
(b) Positive .. Day or night in all weather	HC1	2
Day (Good weather)	HC2	2
(c) ASW Action Day or night	Officer HC1	Normally 2

Note—For training purposes, when conditions permit, a controller may use a higher control method than that for which he is qualified providing that he is being supervised by a controller qualified in the method of control being used.

Training

6. Officers

A minimum of two officers qualified HC1 should be borne in escorts. As an officer HC1 will be required in the Operations Room at all times during the "Dip Watch" state, it is highly desirable that ships have a third officer trained in positive control to relieve the watchkeeping burden. It will seldom be possible to post officers for helicopter control courses as PCT and Commanding Officers should take every opportunity to arrange for courses direct with HMAS WATSON.

7. Sailors

- (a) Because of lack of live training facilities the aim of training all PORP candidates as helicopter controllers has proved unattainable. In future the PORP course will include training in helicopter control on the Solartron Trainer, which training will be regarded in the same light as other sections of the course, and will carry no helicopter control qualification. Satisfactory completion of this solartron training will be the only helicopter control requirement for qualification as PORP. Sailors who have already completed the PORP course but who have not qualified as helicopter controllers will not require this qualification before promotion.

(b) In escorts three sailors, normally the senior RP sailor and two LSRP's, will be qualified HC2 before joining. In exceptional cases ABRP's may be selected in lieu of LSRP's. HMAS MELBOURNE will be provided with at least four RP's qualified as controllers; these will be LSRP or above. To this end, action will be taken by the posting authority to post sailors to HMAS WATSON to undergo the helicopter control course as PCT. Sailors already qualified will attend the first week only of the course, as a refresher.

(c) It will be some time before the arrangements above can be fully implemented and Captains are therefore encouraged to arrange for suitable sailors to be qualified as helicopter controllers as in the past.

Courses

8. Helicopter control courses are conducted by HMAS WATSON and consist of two weeks at WATSON in the Solartron Trainer followed by one week at sea.

Reporting Results

9. HMAS WATSON is responsible for reporting results for courses, the authority concerned reporting upgrading in accordance with Paragraph 4 Form AS 161A is to be used.

10. Navy Order 349 of 1965 is hereby cancelled. ABR 10/1964 and ABR 27 and relevant Schemes of Complement will be amended.

(DMT 302/201/44)

(Navy Order 349 of 1965)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

86—Alteration and Addition Item—HMAS PALUMA

The following Alteration and Addition Item is approved to be carried out in HMAS PALUMA.

Class List Item No. 9 (Ex TDL "L").

(a) *Item:* To install a four drawer steel filing cabinet. Modifications are as follows—

- (i) The cabinet is to be made lockable by means of a steel bar and a Sargent and Greenleaf combination padlock.
- (ii) The carcase of the cabinet is to be welded.
- (iii) The cabinet is to be sited in the hold not higher than 3-ft. 0-in. above the keel.

(b) Weight variations are to be reported on completion of the item.

(c) *References:* (i) HMAS PALUMA's Form AS 1182 TDL "L" dated 16th September, 1965, forwarded under cover of FOCAF Memorandum AF 1929/2 dated 29th September, 1965.

(ii) Navy Office Memorandum 1236/58/124 dated 10th February, 1966.

(iii) FOCAF Memorandum AF 1212/42/4 dated 3rd June, 1966.

(CNTS 1236/58/124)

UNCLASSIFIED

87—Ammunition—Propellant—Landing—Destruction—Reports

Propellant of the following lot is due for withdrawal from service, having reached the age limit—

<i>Propellant Lot Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved.</i>
MEM 171	FNHP 022	QF 40/60

2. *Action to be taken by HMA ships, and establishments, proof ranges, etc.* Return to the nearest Naval armament depot as early as practicable; if unable to comply within 3 months from the date of this order, report specially to DAS for instructions. NM and ER BR 862 Article 1126 refers.

3. *Action to be taken at RAN armament depots* Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/67)

UNCLASSIFIED

88—Flying Clothing and Personal Flying Equipment—Scale of Allowances

Standard scales of allowances of flying clothing and personal flying equipment for RAN aircrew have been established and are detailed in the appendix to this order.

2. Items required to complete kits to the approved scales should be demanded from the appropriate store depot. As certain of the items listed are not yet available for supply, demands should not be hastened.

3. All items held by aircrew in excess of the authorised allowances set out in the appendix hereto should be returned.

4. ABR 4, Chapter 26, is relevant.

APPENDIX
SCALE OF PERSONAL LOAN

Catalogue No.	Description	Sizes Available	Den.	Vampire and Tracker					Sky hawk
				Helicopters	Gannets	Venom	Tracker		
Part I—Victualing Stores									
45006	Bag, aircrew, headgear	—	No.	—	1	1	—	—	
45010	Bag, flying clothing, 22C/1345	—	No.	1	1	1	1	1	
45012-19	Boot, flying, direct moulded sole	5-12	Pr.	1	1	1	1	1	
45426-32	Boot, rubber	6-12	Pr.	1	1	1	1	—	
45526-31	Boot, rubber, Mark 3, 22C/1633-8	6-11							
45305-18	Coveralls, anti-exposure (orange), Mark 5A	36-46 in 2-in. sizes (small, regular or long)	No.	—	—	—	—	1	
21100-8	Drawers, poplin, elastic top	28-44 (in 2-in. sizes)	Pr.	2	2	2	2	2	
45032-5	Drawers, wool, aircrew, 22C/1188-91	1-4	Pr.	2	2	2	2	2	
45044	Garter, leg, restraining	—	No.	—	—	1	—	—	
45000-3	Girdle, anti-G, Mark 2A	Small and large in short and long fitting	No.	—	—	—	—	2	
45046-8	Gloves, anti-exposure, Mark 5A	8-10	Pr.	—	—	—	—	1	
45060-5	Gloves, calfskin, lightweight	7½-10 (½ sizes)	Pr.	2	2	2	2	2	
45111-6	Gloves, cape leather, water-resistant, 22C/1640-5	7½-10 (½ sizes)	Pr.	1	1	1	1	—	
45091-4	Helmet, flying, type G, comprising— Head cover, fabric, complete with chin strap, 22C/1729-32	1-4	No.	—	1	1	—	—	
45105	Bush, rubber, split, 22C/1395	—	—	—	—	—	—	—	
45103	Ear, capsule, Mark 1, left, 22C/1393	—	—	—	—	—	—	—	
45104	Ear, capsule, Mark 1, right, 22C/1394	—	—	—	—	—	—	—	
45100	Clip, oxygen mask, 22C/1396	—	—	—	—	—	—	—	
45121-35	Helmet, flying, protective, Mark 1A (complete with vizor track and mechanism, chin strap and goggle retaining loop, but without dark screen), 22C/2110-24	1-4 (3 fittings, narrow, regular and broad in each size)	No.	—	1	1	—	—	
45162-4	Helmet, flying, protective, Mark 3A (complete with stowage case and mechanisms), 22C/2565-7	Small, medium and large	No.	1	—	—	—	—	

Note—After fitting, sizing instrument and 2 surplus sets of liners are to be returned to store.

45140-1	Helmet, APH-6A, complete	Medium and large	No.	—	—	—	1	1
45319	Hood, assembly, Mark 5A, anti-exposure, coveralls	—	No.	—	—	—	—	1
45190-4	Jacket, flying, lightweight	Small, medium, large, x large and xx large	No.	1	1	1	1	1
45185	Knife, emergency, aircrew, Mark 2 (complete with metal sheath and fabric attachment), 22C/1996	—	No.	1	1	1	1	1
<i>Spares for—</i>								
45186	Sheath, metal, knife, emergency, 22C/2202	—	No.	2	2	2	2	2
45187	Fabric attachment, knife, emergency, 22C/2203	—	No.	2	2	2	2	2
Lifejacket, aircrew, Mark 6 or Mark 6A, comprising—								
45211	Fluorescence sea marker, 22C/1185	—	No.	1	1	1	1	—
45210	Stole (complete with oral inflation valve), 22C/1182	—	No.	1	1	1	1	—
45217	Waistcoat, Mark 6 (complete with lifeline and toggle), 22C/2107	—	No.	1	1	1	1	—
45218	Waistcoat, Mark 6 (complete with lifeline and toggle), 22C/2109							
45240	Life preserver, type Mark 3C	—	No.	—	—	—	—	1
45291-8	Overalls, flying, lightweight	1-8	No.	1	1	1	1	1
45390-7	Overalls, flying, mediumweight	1-8	No.	1	1	1	1	1
45400	Scarf, neckwear, green	—	No.	1	1	1	1	1
45345-6	Socks, Mark 5A	Medium, large	Pr.	—	—	—	—	1
45357-64	Socks, wool, aircrew, plain	9½-13 (in ½ sizes)	Pr.	3	3	3	3	3
45365-72	Socks, wool, aircrew, ribbed		Pr.	3	3	3	3	3
45355-6	Spectacles, type G, 22G/1398-9		Pr.	1	1	1	1	1
Suit, immersion, Mark 6 or Mark 7, comprising—								
45421-5	Blouse, Mark 6 (complete with seals), 22C/1199-1203, or	1-5	No.	1	1	1	1	—
45521-5	Blouse, Mark 7 (complete with seals), 22C/1671-5							
45433	Braces, 22C/1215	—	Pr.	1	1	1	1	—
45542-46	Trousers, Mark 7 (complete with seals and urinating sleeve), 22C/1676-80, or	1-5	Pr.	1	1	1	1	—
45451-5	Trousers, Mark 6 (complete with seals and urinating sleeve), 22C/1204-8							

Catalogue No.	Description	Sizes Available	Den.	Helicopters	Gannets	Vampire and Venom	Tracker	Sky hawk
Part I—Victualing Stores—continued								
45575-86	Torso harness assembly, MA-2	Small, medium, large and extra large (3 fittings, short, regular and long in each size)	No.	—	—	—	—	2
45566-9	Seater, wool, aircrew, 22C/1667-70	1-4	No.	1	1	1	1	1
45570-3	Undershirt, string, aircrew	36, 38, 40, 42	No.	2	2	2	2	2
45590-1	Visor, screen, anti-glare, dark, 22C/1650-1	Medium and large	No.	—	1	1	—	—
Part II—Naval and Air Stores								
RM520-989-4079-V170	Clip board pilots, part No. FNA 328D	—	No.	1	1	1	1	1
0624/L14995	Headset, lightweight, c/w boom microphone air-lite Type 5200/21	—	No.	(Dakota only)	—	—	—	—
1H6230-067-5209	Light marker, survival, ACR 4F, c/w battery	—	No.	1	1	1	1	1
5965-951-1451	Microphone, throat, Type 13761	—	No.	1	—	—	—	—
RM5965-856-6020-PANN	Microphone, boom, M 3AA	—	No.	—	—	—	1	—
6D/814, 815, 816	Oxygen mask, Type H, c/w microphone tube assembly for type H mask	Large, Medium, small	No.	—	1	1	—	—
						(Vampire) aircrew only)		
6D/2342	Oxygen mask P 1A, c/w microphone harness and flexible tube	—	No.	—	—	1	—	—
						(Venom) aircrew only)		
	Oxygen mask, A 13A, c/w microphone and cup retention kit	—	No.	—	—	—	—	1
	Oxygen regulator for A 13A mask, hard hose for A 13A mask	—	No.	—	—	—	—	1
	Flexible hose for A 13 mask	—	No.	—	—	—	—	1

5825-99-952-6482	Sarbe beacon, Mark 3	—	No.	}	1	1	1	1	1
5825-99-952-6815	Tester	—	No.						
6135-99-519-2369	Battery, Type G 1339	—	No.						
0461/3856	Compass dividers, 5-in.	—	No.	1	per observer, ACM and Skyhawk pilot.				
6B/2645	Computer, Mark 4A	—	No.	1	per observer, ACM for Gannet and Sea Venom aircraft, 1 per Skyhawk pilot.				
6B/2835	Computer, Mark 4B	—	No.	1	per observer, ACM for Wessex and Tracker aircraft.				
6B/2738	Folding map holder	—	No.	1	per aircrew.				
6B/2765	Hold all, Mark 3	—	No.	1	per observer and ACM.				
R6605-00-390-8421-V170	Plotting board	—	No.	1	No. per observer for Wessex aircraft.				
6B/319	Plotting board	—	No.	1	No. per observer for Sea Venom aircraft.				
6B/2705	Plotting board	—	No.	1	No. per observer for Gannet aircraft.				
6B/47	Protractor	—	No.	1	No. per observer and ACM for Gannet and Sea Venom aircraft, 1 per Skyhawk pilot.				
6B/3206	Protractor	—	No.	1	No. per observer and ACM for Wessex and Tracker aircraft.				
1H6675-191-1508	Rule	—	No.	1	No. per observer and ACM, 1 per Skyhawk pilot.				

Part III—Hydrographic Stores

L 11949	Wrist chronograph, HS 9	—	No.	1	No. per aircrew
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(D of V 917/6/136)

UNCLASSIFIED

89—Stores (General)—Flying Clothing and Equipment—Return to Store

Instances have occurred where aircrew proceeding to non-flying postings have not returned all flying clothing and equipment to store, and aircrew transferred from one flying posting to another have retained items of flying clothing not applicable to the flying role at their new station or ship.

2. The above practices have resulted in—

- (a) equipment deteriorating and in some cases becoming unserviceable, and
- (b) a reduction in availability of equipment to aircrew in flying postings.

3. In view of the above, flying clothing and equipment is in future to be returned under the following circumstances—

- (a) When an officer or sailor, even though drawing flying pay, ceases to be employed in a flying posting on an air station or ship, or is discharged from the service, he is to return the complete outfit of equipment on his flying clothing certificate, Form AS 1055 to store.
- (b) Any items of flying clothing and equipment which are not used in the current flying posting are to be returned to store.
- (c) When posted for duty at an RAAF base, all equipment which is not identical to that in service in the RAAF is to be returned to store.

4. ABR 4, Chapter 26 will be amended.

(DSAP 465/52/1315)

Section 5**BOOKS, CORRESPONDENCE, FORMS AND STATIONERY**

UNCLASSIFIED

90—Naval Air Stores—Publications—Withdrawal of Publications Relating to Sycamore Aircraft

Air Publications relating to the above aircraft are no longer required in the RAN. Arrangements are to be made to return all publications in the AP4361 and AP4300C series to the Air Store Depot, Randwick.

(D of S (Air) 32/2/139)

ANO's 91-98/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
1st March, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

91—Naval Stores (General)—Hand Tools and Portable Power Tools Committee

The Hand Tools and Portable Power Tools Committee is an advisory body whose function is to review portable tools supplied to HMA ships and shore establishments. The Committee comprises the following—

General Overseer and Superintendent of Inspection, East Australia Area (Chairman);

Chief Staff Officer (Technical) to FOCAF;

Chief Staff Officer (Technical) to FOICEA;

Representative of General Manager, Garden Island Dockyard;

Representative of Chief Superintendent of Supply, Sydney.

The Secretary is nominated by the General Overseer and Superintendent of Inspection, East Australia Area.

2. The terms of reference of this Committee are as follows—

- (a) To advise the Naval Board on the policy for, and all matters pertaining to, hand and portable power tools for use in HMA ships and shore establishments.
- (b) To examine and propose any change considered desirable in type and consequent allowance and stowage of hand and portable power tools at present in use in the RAN.
- (c) To review existing specifications and propose amendments or prepare new specifications where considered necessary.
- (d) To acquaint themselves with new development and designs of hand and portable power tools and arrange for practical tests where necessary before recommending the adoption of such tools.
- (e) To make recommendations for rationalising and standardising hand and portable power tools. In this capacity they will collaborate with the Sub-committee for Hand Tools of the Standardisation Committee of the Joint War Production Committee, Department of Defence.

3. Specialised tools such as those required for Fleet Air Arm purposes and gardening tools are not included in the Committee's terms of reference and any request to examine such items should be forwarded to the Naval Board.

Defective Tools

4. Tools which have proved defective under conditions which may be considered fair and normal to the type of tool concerned should be returned to the Superintending Naval Store Officer, Sydney, and a report on Form AS 2022/AD 400, forwarded to the Secretary, Hand Tools and Portable Power Tools Committee, Office of General Overseer and Superintendent of Inspection, East Australia Area, Garden Island, in accordance with ABR 4, Article 0907.

5. The defective tool is to be suitably labelled to the effect that it is the subject of a defect report on Form AS 2022/AD 400. The Superintending Naval Store Officer, Sydney, will retain the defective tool and make it available to the Committee if necessary for inspection and test.

Trials

6. Results of tests and trials are to be reported on Form AS 622—"Report of Material/Equipment Trial"—with a recommendation for distribution to the Secretary, Hand Tools and Portable Power Tools Committee.

(DMED 8/1/63)

UNCLASSIFIED

92—Pilotless Target Aircraft Unit—General Information

Navy Order 122 of 1965 is to be amended as follows—

Paragraph 4—

delete the existing opening sentence and *insert* in lieu "The Officer-in-Charge of the PTA Unit will be responsible to Commander (Air), HMAS ALBATROSS for—".

(D/DTWP (Air) 1606/203/49)

(Navy Order 122 of 1965)

UNCLASSIFIED

93—Safety—Safety Orders for Power Boats

An amended version of Form AF 17 is attached as an appendix to this order. Copies, suitable for display, are to be demanded from SNSO, Garden Island, supply being effected when printing has been completed.

2. RI Article 3142 will be amended in due course to include the requirement for a daily inspection of all power boats.

APPENDIX

SAFETY ORDERS FOR POWER BOATS

Inspections—A daily inspection of all power boats is to be made by the coxswain and driver in accordance with an approved check off list. The result of the inspection is to be reported to the OOW by the coxswain on completion. A weekly inspection by an officer accompanied by the coxswain or driver is also to be carried out. Inspections are to include the following—

- (a) *Fire Fighting Equipment*—inspect to see that the proper fire fighting equipment is on board.
- (b) *Life Saving Equipment*—inspect to see that the proper outfit of life saving equipment is on board.
- (c) *Bilges and Sumps*—inspect before starting the engine and if not dry and free from vapour and oil they are to be pumped out, dried and ventilated.

- (d) *Engine Space Bulkheads*—inspect for tightness in bilges in order to prevent liquid and gas from passing into adjacent compartments.
- (e) *Fuel Pipes and Tank Fittings*—inspect for loose fittings or leaky joints.
- (f) *Electrical*—inspect to see that all leads and connections are in place, secured and properly insulated.
- (g) *Boat Recall Signal*—inspect and see that a copy of the boat's recall signal is prominently displayed.
- (h) *Navigation Equipment*—inspect to see that proper lights and sound making apparatus are on board and in working order.
- (i) *Bungs*—inspect to ensure that they are in place and screwed home.

Fuelling/Defuelling—The coxswain is to be on board during fuelling or defuelling and is responsible that the following precautions are taken—

- (a) All main and auxiliary engines are to be stopped and fuel supply cocks shut. However, in boats fitted with bilge exhaust blowers and gas detection systems, blowers may be run while boat is being refuelled.
- (b) All naked lights are extinguished and no smoking takes place. For this purpose transistorised equipment operating is regarded as a naked light.
- (c) In the case of petrol boats fuel hoses are to be properly grounded prior to commencement of fuelling. No electrical switches or connections are to be altered until the boat has been checked gas free by a responsible officer or sailor on completion of fuelling or defuelling. An explosi-meter or other approved gas detecting device is to be used.
- (d) Bilges are to be examined before and after fuel transfers and any inflammable materials removed.
- (e) All practical steps are to be taken to prevent leakages of fuel.
- (f) Fuel tank breathing pipes are to be inspected to ensure that gauzes are clean and undamaged.
- (g) Guard against over-filling.
- (h) Boats should preferably be fuelled in daylight only and with the boat in the water. They are never to be fuelled with passengers embarked.
- (i) One member of the crew is to stand by with a CO₂ extinguisher ready for use throughout fuelling or defuelling.
- (j) Before starting the engine after refuelling ensure complete absence of oil or fuel or vapours in the bilges or engine compartments. A check with an explosi-meter or other approved gas detecting device is to be made if petrol has been embarked or discharged.

Fire Precautions—All members of a power boat's crew are to have a thorough knowledge of the safety precautions pertaining to the use and handling of petrol and diesel fuels and the prevention of fires in boats. They must be capable of operating the fire fighting equipment fitted in the boat. In addition—

- (a) Smoking, the use of matches, naked lights or transistorised equipment in any engine compartment of a service boat and in any part of a petrol engined boat is prohibited.

UNCLASSIFIED

97—Alteration and Addition Item—HMAS MORESBY

The following Alteration and Addition Item is approved to be carried out in HMAS MORESBY—

Class List Item No. 25.

- (a) *Item:* To modify the food and stores lift in accordance with Drawing MBX-12-600.
- (b) Compensating weight surrender of 160-lb. at 2 Deck level is required.
- (c) *References:* (i) GMGID Memorandum Ref. No. N20-14-373 dated 18th April, 1966.
 (ii) FOCAF Memorandum AF 1216/37/6 dated 12th October, 1966.
 (iii) GMGID Signal DTG 290906Z, November, 1966.
 (iv) ACNB Signal DTG 140057Z, December, 1966.

(CNTS 1228/52/67)

UNCLASSIFIED

98—Trousers, Action Working—Introduction of Improved Pattern

The following modifications to the design of action working dress trousers have been approved—

- (a) The waist has been fitted with an extension waistband and adjustable side straps.
- (b) The belt loops have been omitted.
- (c) Slanted side pockets have been fitted in lieu of the front patch pockets.
- (d) A pleat of approximately 1-in. has been incorporated in the top front of each leg.

2. These modifications have been applied to current production and the new style will become available for issue on exhaustion of present stocks.

3. This order will be reprinted for posting on notice boards.

(D of V 917/80/69)

RESTRICTED



ANO's 99-117/67

AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
8th March, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

99—ACNB General Messages

In accordance with Navy Order 724 of 1965 the state of ACNB General Messages as at 1st January, 1967, is shown in the appendix to this order.

APPENDIX

The following F messages may now be withdrawn—

1966

023—see ANO 623/66.

052—see ABR 155.

083—see ANO 501/66.

088—see ANO 522/66.

2. At 0001Z 1st January, 1967, the following F messages were in force—

1966

045	047	055	062	068	070	071	072	073
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075	078	081	082	097	102	103	113	117
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121	122	123	124	125	126	127	128	129
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130	133	134	135	136.
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3. The following RF messages may now be withdrawn—

1966

007—Cancelled.

008—Cancelled.

009—Cancelled.

012—Cancelled.

(AS (NS) 77/201/38)

(Navy Order 724 of 1965)

Section 2

PERSONNEL

UNCLASSIFIED

100—Advances of Travelling Expenses—Adjustment

Examination of records in Navy Office for advances of travelling expenses to RAN personnel discloses that in many instances adjustment of advances after completion of the journey is unduly delayed.

2. The attention of all personnel is to be drawn to the necessity for prompt submission of claims for travelling expenses where adjustment of advances is involved, so that the Treasury requirement stated in NAM Article 271 (2) may be complied with.

3. Officers concerned are to ensure that all requirements for reporting and adjusting advances are complied with.

(DNA 201/8/4)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

101—Short Courses for RAN and Reserve Officers

Navy Order 654 of 1966 is to be amended as follows—

Appendix A—Page 8—

Course 25770—

- (a) Delete existing Column 5 and insert "Seamen officers with considerable AIO experience".
- (b) Change Column 4 to read 4 weeks.
- (c) Delete existing Column 7 and insert "1 week AIO refresher and then join up with Course 25770".

(DOA 312/203/81)

(Navy Order 654 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

102—Alteration and Addition Item—Ton Class Minesweepers

The following Alteration and Addition Item is approved to be carried out in the Minesweepers HAWK, GULL, TEAL and IBIS—

Class List Item No. 19 (Ex TDL "NCX").

- (a) Item: To resite the radar type 975 transmitter receiver and power supply unit from the Chart House to the Minesweeping Office in accordance with Navy Office Drawing No. 210/ACH/36. Changes in weight locations are to be reported.
- (b) Weight compensation is not required.
- (c) The item is to be included in the conversion specification for the minesweepers CURLEW and SNIPE.
- (d) References: (i) HMAS WATERHEN Form AS 2022, Serial No. L2/65 dated 22nd June, 1965.
(ii) Navy Office Letter 1426/20/63 dated 17th February, 1966 (NOTAL).

(CNTS 1426/20/63)

UNCLASSIFIED

103—Ammunition—Cartridges, Power—Aircraft—Cartridges—Jettison Cockpit Canopy No. 1 Mark 1—Shelf Life

(DCI (RN) 1469/1966)

Item 369560— Cartridges Jettison Cockpit Canopy No. 1 Mark 1.

Note—The two hyphens added to the store reference number indicate that two additional digits are added to denote the year of filling.

2. Information .. The shelf life of these cartridges was extended to four years nine months in Navy Order 253 of 1965. This extension was given because of difficulty in obtaining supplies from new production and is now withdrawn. As from the date of this order the shelf life of these cartridges will revert to four years.

3. Navy Order 253 of 1965 is hereby cancelled.

(DAS 727/58/123)

(Navy Order 253 of 1965)

UNCLASSIFIED

104—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 1541/1966)

Propellant of the following lots and sub-lots is due for withdrawal, having reached their age limits—

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
RNC 3676 .. } RNC 3740 .. }	SC 103	.. Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNC 3739 ..	SC 122	.. Cartridges— QF 4.5-in. (SL)
RNC 3675 .. } RNC 3693 .. }	SC 140	.. Cartridges— QF 5.25-in., Impulse Torpedo
RNC 3710 .. } RNC 3738 .. }	SC 150	.. Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 3720 .. } RNC 3734 .. } RNC 3749 .. }	NF 029	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 3682 ..	NF 042	.. Cartridges— QF 4-in., QF 4.5-in. (SL)

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 3702 RNC 3750 RNC 3805 RNC 4342R	NF 052	Cartridges— QF 4-in. (FA)
RNC 3736 RNC 3751	NF 059	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNC 3684 RNC 3687 RNC 3700 RNC 3701 RNC 3718 RNC 3719 RNC 3735	NF/S164-048	Cartridges— QF 4-in.
RNP 52	SC 103	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNP 51 RNP 61	SC 122	Cartridges— QF 4.5-in. (SL)
RNP 46 RNP 53 RNP 64	SC 140	Cartridges— QF 5.25-in., Impulse Torpedo
RNP 63	SC 150	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 79	NF 059	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 58 RNP 59 RNP 77 RNP 228R	NF/S164-048	Cartridges— QF 4-in.
RNP 2354	SUK/XII	Motor Rocket A/C 3-in.
MEC 102	SC 150	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
BS 20621XA BS 20620XA	SUK 1.7-0.6	Motor Rocket 2-in. Flare

2. *Action to be taken by HMA ships, establishments and proof ranges*

Return to nearest RAN armament depot as early as practicable; if unable to comply within three months from date of this order, report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. *Action to be taken at RAN armament depots*

Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/74)

UNCLASSIFIED

105—Coveralls, Safety, Industrial—Revision of Size Range and Scales of Measurements

The scales of measurements and size range of Coveralls, Safety, Industrial, both repayment and loan, have been revised. The method of sizing has been amended to accord with relevant Australian standards and supersedes the old size range as follows—

<i>New Size Range</i>	<i>Old Size Range Deleted</i>
30	3
36S	3½
32	4
38S	4½
34	5
40S	5½
31L	5½
36	6
42S	6½
33L	6½
38	7
44S	7½
40	8
46S	8½
42	9
48S	9½

2. The revision has deleted "out" or "odd" sizes for which there is little or no demand, added additional sizes required, and provided a full coverage of the sizes and measurements of the coveralls which, in future, will be held in stock.

3. Demands for sizes other than those listed will be procured as made-to-measure garments.

4. Details of the full size ranges and scales of measurements are given in the appendix to this order.

5. ABR 93, *Manual of Victualling, Part 2, Section 3*, will be amended in due course.

Catalogue Nos.		Repayments Coveralls		White		Blue		White with Blue Collar		White		Blue		White		Blue		White		Blue									
Actual Measurement of Wearer		Size		Chest		Waist		Seat		Chest		Waist		Seat 8-in. from Crotch		Half Back		Sleeve from Centre Back		From Nape of Neck to Waist		Of Side Seam from Waist		Of Leg Seam		Width at Knee		Width at Bottom	
40762	40837	20900	30436	32	28	28	34	38	33	38	8	29	17	41	28	21	19	28	21	19	28	21	19	21	19	21	19	21	19
40764	40839	20901	30438	34	30	30	36	40	36	40	8½	30	17½	40	27	22	20	30	22	20	30	22	20	28	21	20	22	20	
40766	40857	20903	30440	38	32	32	38	44	38	42	8½	31½	18	41½	28	22½	20	31½	22½	20	31½	22½	20	29	23	21	22½	20	
40769	40841	20905	30443	40	34	34	40	46	40	44	9	31½	18½	42½	29	23	21	32½	23	21	32½	23	21	30	23½	21½	23½	21½	
40771	40844	20908	30446	42	36	36	42	48	42	46	9½	33½	19	43½	30	24	22	34½	24	22	34½	24	22	31	24	22	24	22	24
40775	40846	20911	30447	44	38	38	44	50	44	48	10	34½	19½	44½	31	24	22	35	24	22	35	24	22	32	24	22	24	22	24
40777	40849	20912	30447	46	40	40	46	52	46	50	10½	35	20	46	32	24	22	36	24	22	36	24	22	33	24	22	24	22	24
40778	40847	20907	30442	48	42	42	48	54	48	52	10½	37	20½	47	33	24	22	37	24	22	37	24	22	34	24	22	24	22	24
40788	40843	20907	30442	50	44	44	50	56	50	54	11	38	21	48	34	24	22	38	24	22	38	24	22	35	24	22	24	22	24
40770	40845	20910	30445	52	46	46	52	58	52	56	11	39	21½	49	35	24	22	39	24	22	39	24	22	36	24	22	24	22	24
40763	40838	20902	30437	54	48	48	54	60	54	58	11	40	22	50	36	24	22	40	24	22	40	24	22	37	24	22	24	22	24
40765	40840	20904	30439	56	50	50	56	62	56	60	11	41	22½	51	37	24	22	41	24	22	41	24	22	38	24	22	24	22	24
40767	40842	20906	30441	58	52	52	58	64	58	62	11	42	23	52	38	24	22	42	24	22	42	24	22	39	24	22	24	22	24
40774	40848	20909	30444	60	54	54	60	66	60	64	11	43	23½	53	39	24	22	43	24	22	43	24	22	40	24	22	24	22	24
40773	40835	—	—	62	56	56	62	68	62	66	11	44	24	54	40	24	22	44	24	22	44	24	22	41	24	22	24	22	24
40776	40836	—	—	64	58	58	64	70	64	68	11	45	24½	55	41	24	22	45	24	22	45	24	22	42	24	22	24	22	24
40779	40850	—	—	66	60	60	66	72	66	70	11	46	25	56	42	24	22	46	24	22	46	24	22	43	24	22	24	22	24

(D of V 917/90/138)

UNCLASSIFIED

106—Embarkation of Explosive Stores for the Conduct of
Miscellaneous Trials by HMA Ships

Frequent requirements are arising for HMA ships to carry out experimental trials using Service explosive stores. In many cases the trials involve large quantities of explosives for which no authorised stowage, in accordance with BR 862, Naval Magazine and Explosive Regulations, is available in the ship.

2. To ensure safety and security of such stores, Naval Board approval is to be sought prior to their embarkation.

3. The Administrative Authority of the activity scheduling the trial is to inform the Naval Board (DWE) of the quantities and natures of explosive stores required for the trial as soon as they are known, and in sufficient time to allow temporary stowage to be authorised and fitted if required.

(DWE 700/253/42)

UNCLASSIFIED

107—Gun Mountings—4.5-in. Mark 6* Mod. 1 Mountings—Revolving
and Fixed Structure Header Tanks—Cooling Coil
Arrangements—Modification No. AN 11

- (a) *Ships, establishments and authorities concerned* .. All ships so fitted.
- (b) *Type and mark of equipment* .. 4.5-in. Mark 6* Mod. 1 mountings.
- (c) *Part of equipment affected* .. (i) Revolving Structure Elevation, Training and General Service header tanks.
(ii) Fixed Structure General Service header tank.
- (d) *Purpose of modification* To prevent damage to cooling coils when tightening securing arrangements.
- (e) *Nature of modification* To replace existing screwed sleeves with new design screwed sleeves incorporating larger flanges and anti-rotation flats.
- (f) *Drawings* N 51134, N 51126, N 51138, N 49407.
- (g) *By whom to be done* Dockyard.
- (h) *Priority* Category 2—Repair action only.
- (j) *How to be treated* As a defect.
- (k) *How to be recorded* As modification AN 11 to Mark 6* Mod. 1 mountings.

(DWE 736/259/87)

UNCLASSIFIED

108—Stores General (Group Class 5120)—Hand Tools, Non-edged, Non-powered—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5120	00-293-0018	PLIERS, RETAINING RING ..	5120	00-288-9711	
5120	00-293-0187	PLIERS, RETAINING RING ..	5120	00-595-9550	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/71/558)

UNCLASSIFIED

109—Stores General (Group Class 5305)—Screws—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5305	00-286-9223	SCREW, MACHINE ..	5305	00-637-9756	
5305	00-059-8449	SCREW, MACHINE ..	5305	00-054-5649	
5305	00-059-8438	SCREW, MACHINE ..	5305	00-054-5637	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/61/526)

UNCLASSIFIED

110—Stores General (Group Class 5310)—Nuts and Washers—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5310	00-193-7506	WASHER, LOCK ..	5310	00-638-4317	
5310	00-208-8726	NUT, PLAIN, HEXAGON ..	5310	00-194-8195	
5310	00-596-0726	WASHER, SPRING ..	5310	00-194-2791	
5310	00-193-7595	WASHER, FLAT ..	5310	00-614-9260	
5310	00-221-4873	NUT, PLAIN, HEXAGON ..	5310	00-685-7504	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/51/314)

UNCLASSIFIED

111—Stores General (Group Class 5815)—Teletype and Facsimile Equipment—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5815	00-194-1511	WASHER ..	5310	00-194-1511	
5815	00-356-3070	GOVERNOR ..	6110	00-356-3070	
5815	00-369-9147	NUT, PLAIN, HEXAGON ..	5310	00-369-9147	
5815	00-370-0710	STUD ..	5307	00-370-0701	
5815	00-855-3343	RESISTOR ..	5905	00-855-3343	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/57/168)

UNCLASSIFIED

112—Stores General (Group Class 5905)—Resistors—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5905	00-855-8403	RESISTOR, FIXED ..	5905	00-901-7902	
5905	00-794-3799	RESISTOR ..	5905	00-851-4898	
5905	00-079-5370	RESISTOR, FIXED, WIRE WOUND	5905	00-892-6728	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/66/296)

UNCLASSIFIED

113—Stores General (Group Class 5910)—Capacitors—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5910	00-666-9119	CAPACITOR, FIXED, PAPER DIELECTRIC	5910	00-821-4702	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/65/274)

UNCLASSIFIED

**114—Stores General (Group Class 5950)—Coils and Transformers—
Change of Federal Stock Numbers**

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5950	00-392-0306	COIL, SOLENOID ..	5950	00-645-3492	
5950	00-568-2189	TRANSFORMER, PULSE ..	5950	00-645-6882	
5950	00-713-8512	COIL, RADIO FREQUENCY ..	5950	00-556-7759	
5950	00-713-8457	TRANSFORMER, PULSE ..	5950	00-846-1338	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/62/151)

UNCLASSIFIED

**115—Stores General (Group Class 6240)—Electric Lamps—Change
of Federal Stock Numbers**

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
6240	00-186-6602	LAMP INCANDESCENT ..	6240	00-132-5351	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/75/140)

Section 5**BOOKS, CORRESPONDENCE, FORMS AND STATIONERY**

RESTRICTED

116—Form AS 425—Security Classification

A recent inspection report on Forms AS 425 was classified RESTRICTED in accordance with the classification printed on the forms. The contents of the report were classified up to SECRET.

2. Pending the printing of new Forms AS 425, the printed classification on forms currently in use is to be disregarded and the reports classified according to content.

(DNI 464/251/65)

UNCLASSIFIED

**117—Forms SD 100 and SD 101—Boats' Equipment Lists—
Introduction**

Under current procedure, boats' equipment lists required by ABR 4, Article 1821, are prepared in manuscript form.

2. This has proved unsatisfactory and standard Forms, SD 100 and SD 101, are being introduced for use as follows—

Form SD 100—Boats' Equipment List (Power Boats) To record items of equipment fitted in power, etc., boats other than those for which Inventory Accounts are maintained in accordance with ABR 4, Article 1901.

Form SD 101—Boats' Equipment List (Pulling and Sailing Boats) To record items of equipment fitted.

3. Requirements of the new forms are to be demanded from the Superintending Naval Store Officer, Sydney. On their receipt in HMA ships and shore establishments details of items recorded in existing manuscript lists are to be transferred to Forms SD 100 or SD 101 as appropriate. The manuscript lists are to be retained pending disposal in accordance with ABR 4, Article 1802A.

4. ABR 4, Article 1821, will be amended.

(DSAP 501/56/191)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
9th March, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

UNCLASSIFIED

118—Stores General (Class/Group 0623)—Teletype and Facsimile Equipment—Re-identification to NATO Groups and Classes

Further to Navy Order 64 of 1967 the remainder of Teletype and Facsimile equipments previously accounted for under Class/Group 0623 have been re-identified to NATO Group/Classes as listed hereunder.

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

(Navy Order 64 of 1967)

APPENDIX

3

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 55344	5305	00-448-1522	Screw
70720		00-392-0353	"
71046		00-448-1551	"
71659		00-448-3748	"
72096		00-298-2480	"
72508		00-286-3804	"
72555		00-297-8406	"
73276		00-637-5461	"
73482		00-391-9700	Shaft
73894		00-298-2779	Screw
74014		00-286-3807	"
74017		00-448-3788	"
74020		00-448-3750	"
74027		00-207-7906	"
74059		00-286-3806	"
74076		00-286-8980	"
74077		00-286-8986	"
74122		00-286-3809	"
74170		00-448-3811	"
74171		00-286-8974	"
74172		00-448-3813	"
74249		00-206-9844	"
74252		00-639-6975	"
74296		00-298-2486	"
74342		00-391-9721	"
108891		00-392-0560	"
121021		00-316-9597	"
124681		00-298-4586	"
125112		00-286-1781	"
130729		00-611-5057	"
139752		00-754-3061	"

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	1020	5305	00-448-3575 Screw 6-40 x $\frac{1}{2}$ HEX
	1026		00-286-4005 Screw 6-40 x $\frac{3}{8}$ FIL
	1028		00-448-3579 Screw 4-40 x $\frac{1}{2}$
	1030		00-369-9307 Screw 8-40 Shoulders
	1035		00-286-3813 Screw
	1038		00-207-8240 Screw 6-40 x $\frac{9}{32}$ FIL
	1050		00-297-7808 Screw 6-40 x $\frac{7}{32}$ FIL
	1064		00-286-3812 Screw 6.32 x $\frac{1}{2}$ FIL
	1095		00-754-3082 Screw
	1100		00-286-1777 Screw $\frac{1}{2}$ 32 Pilot
	1121		00-638-8685 Screw 10-32 x $\frac{3}{8}$ FIL
	1159		00-370-1168 Screw 4.40 x $\frac{1}{2}$ FIL
	1160		00-297-3957 6.40 x $\frac{5}{16}$ FIL
	1161		00-286-4033 Screw 6.40 x $\frac{1}{2}$
	1162		00-285-5583 Screw 4-40 x $\frac{1}{2}$ FIL
	1163		00-285-3649 Screw 4-40 x $\frac{3}{16}$
	1164		00-285-5568 Screw 2-56 x $\frac{3}{16}$ FIL
	1168		00-297-7825 Screw 4-40 x $\frac{5}{16}$ FIL
	1169		00-286-8972 Screw 6-40 x $\frac{7}{16}$
	1172		00-286-1778 Screw 2-56 x $\frac{5}{16}$ FIL
	74399		00-206-9837 Screw
	74520		00-286-8976 "
	74525		00-370-0220 "
	74566		00-448-3859 "
	74613		00-286-3800 "
	74725		00-286-8979 "
	74730		00-286-8978 "
	74739		00-448-3889 "
	74798		00-286-3802 "

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	74805	5305	00-286-4011 Screw
	74952		00-286-9222 "
	74986		00-286-5223 "
	76167		00-286-3841 "
	76279		00-677-1869 "
	76699		00-448-3951 "
	77902		00-530-9577 "
	80342		00-365-8795 "
	80467		00-295-2487 "
	80508		00-448-4009 "
	81530		00-473-8379 "
	81531		00-448-1710 "
	81564		00-535-7127 "
	82702		00-448-4046 "
	82730		00-322-4474 "
	83874		00-448-1754 "
	85422		00-391-9937 "
	87901		00-286-4025 "
	90514		00-448-4127 "
	90515		00-448-4128 "
	91600		00-448-4143 "
	91744		00-448-1912 "
	92626		00-392-0412 Stud
	92265		00-527-3923 Screw
	93191		00-297-8517 "
	94223		00-392-0056 "
	94501		00-392-0062 "
	95442		00-125-4803 Stud
	95487		00-268-1213 Screw

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	95499	5305	00-639-7125	Screw
	95971		00-298-4330	"
	100565		00-392-1247	"
	100797		00-392-1340	"
	104828		00-392-1441	"
	107273		00-448-2177	Spring
	108010		00-392-1455	Screw
	108353		00-392-1593	"
	108354		00-392-1594	"
	108738		00-392-1655	"
	108809		00-392-1671	"
	108891		00-392-0560	"
	110475		00-639-5366	"
	111017		00-638-4524	"
	111442		00-448-2192	"
	112621		00-392-1748	"
	112622		00-297-2164	"
	112623		00-392-1750	"
	112624		00-297-2151	"
	112819		00-392-1759	"
	114125		00-638-1703	"
	115593		00-527-5396	"
	117087		00-611-5193	"
	119662		00-677-1903	"
	123341		00-392-1892	"
	123959		00-525-0875	"
	124681		00-298-4586	"
	124850		00-392-2032	"

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	125002	5305	00-392-2038	Screw 8-32 x 11/32
	125005		00-392-2041	"
	125119		00-392-2064	"
	125124		00-392-2067	"
	125126		00-386-8963	"
	125138		00-298-2469	"
	125139		00-216-9850	" 4-40 x $\frac{1}{4}$ PHIL
	125142		00-370-0848	"
	125143		00-392-2075	"
	125159		00-392-2081	"
	125170		00-392-2087	"
	125176		00-637-0366	" 3/56 Pilot
	125178		00-207-4213	"
	125180		00-638-8513	" Shoulder 4-40
	125181		00-324-8773	" 2.56 x $\frac{1}{8}$ PHIL
	125211		00-286-8964	"
	125212		00-392-2105	"
	125215		00-206-8638	" 4-40 x 3/16 HEX
	128002		00-638-8669	"
	130729		00-611-5057	"
	135013		00-639-8255	Stud
	139752		00-754-3081	Screw
	139971		00-820-9885	"
	150089		00-638-6053	"
	151152		00-370-0809	" 4-40 x 3/16 HEX
	151346		00-208-6433	" 6-40 x $\frac{1}{8}$ PHIL
	151616		00-525-0844	" Self Tapping
	151621		00-290-2377	"
	151631		00-208-6432	"

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151632	5305	00-298-2472 Screw
	151637		00-638-3853 "
	151657		00-370-0922 "
	151658		00-208-6431 "
	151659		00-208-6435 "
	151685		00-043-6639 "
	151686		00-370-1168 "
	151688		00-370-1167 "
	151692		00-370-0926 "
	151693		00-298-4530 "
	151694		00-701-8712 "
	151721		00-208-6436 "
	151722		00-638-2303 "
	151723		00-370-0934 "
	151724		00-638-3825 "
	151732		00-302-6448 "
	151737		00-208-6405 "
	153537		00-701-9677 "
	153539		00-701-9720 "
	153817		00-514-7391 "
	153841		00-531-0763 "
	154051		00-754-4260 "
	154071		00-652-1610 "
	154093		00-677-1908 Stud
	154202		00-677-2287 Screw
	154242		00-754-4257 "
	155046		00-514-7392 "
	156740		00-754-4253 "
	156874		00-677-2290 "

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	156875	5305	00-677-2291 Screw
	156887		00-677-0363 "
	156899		00-677-3064 Stud
	156936		00-677-3065 Screw
	156971		00-677-3067 "
	156987		00-677-3068 "
	158206		00-677-0347 "
	158207		00-677-0348 "
	158276		00-588-6660 "
	158277		00-754-3078 "
	158926		00-701-0348 "
	159604		00-701-9686 "
	159621		00-754-4259 "
	159658		00-701-9687 "
	161107		00-712-9455 Stud
	161108		00-835-9897 "
	161301		00-705-5007 Post
	161348		00-785-0037 Spring
	162730		00-754-4289 Screw
	2526	5340	00-160-0108 Spacer
	2529	5970	00-391-9569 Bushing
	2565	5340	00-448-3663 Key Lever Spring
	2760		00-448-1360 Spring
	2924	5930	00-224-5865 Contact
	2986	5970	00-391-9578 Bushing
	3043	5905	00-TT3043 Resistor
	3094	5970	00-696-2756 Insulator
	3329	4730	00-595-2228 Oil Cup
	3432	5940	00-693-4477 Wire Terminal

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	3571	3120	00-580-1713	Bushing
	3621	5940	00-187-5118	Terminal
	3647	5970	00-534-7412	Insulator
	3897	5330	00-187-0130	Bushing
	4851	5940	00-187-5112	Terminal
	5043	5905	00-TT5043	Resistor
	5816	5970	00-391-9624	Washer
	6314	6110	00-224-5840	Assembly
	6320	6625	00-503-7163	Screw
	6342	5995	00-407-5852	Clip
	6803	5940	00-236-7218	Terminal
	7096	5970	00-391-9632	Bushing
	7158	5905	00-TT7158	Resistor
	7484	5307	00-125-5724	Post
	7634	5340	00-448-3947	Spring
	7835	7510	00-191-6038	Spool
	7965	5340	00-448-3995	Spring
	8254	5340	00-598-3827	Clamp
	8262	5355	00-552-8943	Knob
	8308	5340	00-530-6425	Clamp
	9178	5930	00-391-9650	Spring
	9520	5940	00-192-9968	Terminal Block
	31636	5340	00-448-1417	Spring
	41385	5340	00-448-1425	Spring
	41733	5970	00-962-2757	Insulators
	42661	5340	00-448-1433	Spring
	45024	5340	00-448-1439	Spring
	55088	5340	00-448-3709	Spring

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0613	70361	5905	00-220-9433	Resistance
	70722		00-TT70722	Resistor
	70724	5970	00-369-9547	Insulator
	70771	4730	00-532-8780	Oiler
	71999	5340	00-448-3751	Spring
	72473	5340	00-448-3756	"
	72595	5340	00-448-1572	"
	73196	5905	00-TT73196	Resistor
	73242	5970	00-448-1582	Insulator
	73483	5340	00-448-3773	Spring
	73517	5210	00-197-9694	Gauge
	73588	5945	00-295-4898	Spring
	73593	5930	00-191-9703	"
	73670	5940	00-391-9704	Block
	73686	5905	00-690-8551	Resistor
	74148	6350	00-538-9343	Hammer
	74194	5307	00-126-8171	Stud
	74196	5307	00-208-0471	Stud
	74253	5307	00-207-8160	Screw
	74330	5340	00-448-3829	Spring
	74331		00-448-3830	Spring
	74343	5307	00-208-0459	Stud
	74425	5935	00-644-5348	Receptacle
	74433	5970	00-448-3841	Cover
	74448	4730	00-529-4793	Bushing
	74449		00-529-4785	Bushing
	74548	5340	00-448-3856	Spring
	74558	6250	00-391-9725	Socket
	74567	5306	00-292-3079	Screw

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	74568	5970	00-448-3861 Block
	74594	5340	00-664-1757 Ring
	74528	5920	00-221-5666 Block
	74702	5340	00-448-3872 Spring
	74733	5307	00-126-8206 Stud
	74899	3110	00-370-0004 Bearing
	74965	5970	00-391-9753 Bushing
	74969	4730	00-529-4783 Bushing
	74987	5340	00-448-3914 Spring
	74988	5340	00-448-3915 Spring
	74991	5970	00-391-9755 Plate
	75231	5970	00-391-9757 Bushing
	75750	5330	00-188-2086 Washer
	76246	5970	00-391-9765 Bushing
	76295	5340	00-448-3944 Spring
	76296	5340	00-448-3945 "
	76298		00-448-1622 "
	76333	5970	00-391-9767 Bushing
	76382	5945	00-391-9768 Spring
	76524	3110	00-391-9771 Bearing
	76532	3120	00-369-8774 Bushing
	77038	6625	00-220-9145 Contact
	77040	5930	00-193-2789 Spring Assy
	77057	5977	00-129-1819 Holder
	77129	5970	00-391-9780 Block
	78164	5307	00-207-4500 Post
	78205	5905	00-IT78205 Resistor
	78398	5970	00-391-9790 Bushing

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	78403	5977	00-230-6036 Brush
	78438	5970	00-391-9792 Bushing
	78497	5340	00-391-9796 Contact
	78729	5945	00-230-5175 Arm
	78740	5340	00-448-3980 Spring
	78741		00-448-3981 Spring
	78748		00-448-3985 "
	78824		00-448-3988 "
	78905	5970	00-391-9802 Washer
	80153	5905	00-TT80153 Resistor
	80334	5940	00-187-5124 Terminal
	80460	5340	00-391-9841 Clamp
	80566	5970	00-391-9844 Bushing
	80581	5340	00-448-1691 Spring
	80592	5930	00-224-5858 Contact
	80755	5970	00-391-9848 Bushing
	80827	6240	00-237-7872 Lamp
	80926	5340	00-448-4014 Spring
	80945	5340	00-448-4015 "
	81755	5905	00-TT81755 Resistor
	81775	5905	JO-TT81775 "
	81825	5910	00-391-9852 Condenser
	81841	5910	00-TT81841 "
	82075	5340	00-448-4034 Spring
	82391	5910	00-TT82391 Condenser
	82442	5340	00-448-4041 Spring
	82444	5970	00-391-9855 Bushing
	82474	5940	00-553-2977 Terminal

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	82548	5970	00-448-1736	Plate
	82612	6930	00-396-6263	Keypop
	82626	5905	00-TT82626	Resistor
	82711	6670	00-171-3987	Scale
	82726	5340	00-129-1983	Spring
	82866	5905	00-173-7085	Resistor
	82867	5905	00-TT82867	"
	82870		00-229-1234	"
	83054	5910	00-127-7259	Condenser
	83355	5330	00-224-4270	Washer
	83954	5970	00-391-9874	Bushing
	84054	5930	00-391-9876	Spring
	84055		00-391-9877	"
	84592	5340	00-391-9930	Shim
	84675	5945	00-391-9932	Contact
	84903	6625	00-224-5838	"
	85318	5330	00-391-9936	Washer
	86169	5307	00-126-8582	Post
	86273	5340	00-448-4092	Spring
	86712		00-448-1811	"
	86951	5905	00-195-2145	Resistor
	86955	5945	00-391-9947	Contact
	86958	5945	00-295-4855	"
	86059	5970	00-391-9949	Bushing
	86960	5930	00-224-5874	Contact
	87401	5340	00-448-4102	Spring
	87647	3120	00-391-9953	Sleeve
	87656	5340	00-448-1834	Spring
	89969	5970	00-392-0014	Washer

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	90490	5340	00-285-8086	Shim
	90510		00-448-4124	Spring
	90511		00-448-4125	Screw
	90615		00-448-1886	Spring
	90679	5330	00-526-9315	Washer
	90815	5905	00-TT90815	Resistor
	91577	5340	00-448-4142	Spring
	91768	5995	00-222-2891	Strap Terminal
	91837	5330	00-186-8892	Washer
	92291	5910	00-194-6229	Condenser
	92368	6625	00-448-1926	Gear
	92437	6240	00-392-0033	Lamp
	92724	5995	00-171-3086	Tube
	93009	5977	00-251-9158	Brush
	93463	5945	00-500-6309	Armature
	93758	5330	00-171-9974	Washer
	93823	5210	00-392-0047	Gauge .005"
	93825	5210	00-189-9512	Gauge .025"
	93833		00-197-9680	Gauge .003"
	94094	5330	00-663-4666	Washer
	94679	5910	00-128-3151	Capacitor
	94694	5330	00-171-6240	Washer
	95282	5905	00-TT95282	Resistor
	95320	5930	00-519-9013	Switch
	95418	5307	00-638-7459	Stud
	95427		00-392-0072	"
	95428	5340	00-448-1997	Spring
	95456		00-448-4170	"
	95478	5340	00-448-2001	"

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5910	00-262-8370	Capacitor
		00-280-7565	"
	5210	00-793-9844	Gauge
		00-197-9679	"
		00-197-9677	"
		00-189-9547	"
		00-189-9548	"
		00-221-2029	"
		00-189-9535	"
		00-189-9543	"
	5306	00-370-0242	Screw
	5940	00-236-7237	Terminal
	5930	00-392-0099	Stop
	5940	00-193-0754	Block
	5945	00-127-1056	Armature
	5970	00-369-9478	Contact
	5340	00-448-2050	Spring
	5975	00-196-2664	Clamp
	5935	00-392-0150	Connector
		00-392-0272	Connector
		00-392-1153	Connector
		00-283-3356	Socket
		00-229-4558	Plug
	6210	00-243-0071	Cap
	5330	00-729-6530	Washer
	5340	00-448-2091	Spring
	6130	00-TT101946	Rectifier
	5307	00-448-2098	Stud
	6240	00-TT102617	Lamp

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	6250	00-299-5952	Switch
	5920	00-240-4126	Fusetron
	5340	00-568-1001	Spring
	3110	00-100-6149	Bearing
	5340	00-448-3586	Spring
	5930	00-231-1485	Switch Assy
		00-193-2815	Contact
	5905	00-TT106244	Resistor
		00-TT106245	Resistor
	5970	00-392-1453	Insulator
	9390	00-174-0970	Wick
	5935	00-590-2182	Receptacle
	5930	00-392-1686	Switch
	6130	00-392-1716	Stack Selenium
	5950	00-392-1719	Coil
	5355	00-448-3655	Scale
	3110	00-156-5012	Bearing
	5340	00-448-2185	Spring
	5940	00-392-0941	Board Terminal
	5905	00-TT111647	Resistor
	3110	00-392-1742	Bearing
	5920	00-199-3973	Fuse
	3110	00-392-1755	Race
	3110	00-392-1756	Roller
	5910	00-666-6089	Condenser
	5975	00-525-2331	Switch Case
	6240	00-TT116698	Lamp 6B
	5815	00-784-0319	Gauge

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 159278	5815	00-705-4997	Gear Helical Driving 14T
159279		00-705-4998	Gear With Disc Driving 96T
159287		00-705-5004	Insulator
159291		659-3111	Bail
159292		00-659-3112	"
159293		00-659-3113	Arm Extension
159295		00-767-5157	Bracket
159297		00-659-3114	Arm Stop
159298		00-659-3115	Spring
159312		00-767-5158	Wick Leather
159340		00-652-2525	Spring
159347		00-705-0356	Bail
159358		00-886-4646	Kit to Rest Typing Unit on End for servicing
159404		00-713-6974	Post
159411		00-705-0340	Bearing Arm
159413		00-713-6976	Plate
159427		00-705-0338	Bracket
159428		00-705-0344	Retainer
159430		00-652-2525	Lever
159431		00-705-6008	Lever Trip
159434		00-705-0342	Plate
159437		00-705-0345	Arm
159438		00-705-0346	Arm
159441		00-705-0348	Guide
159447		00-705-0347	Bell Crank
159448		00-705-0349	" "
159450		00-705-0350	" "

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 159459	5815	00-705-0355	Link
159467		00-705-0354	Holder
159468		00-705-1288	Arm (Lever Assembly)
159470		00-705-1287	Shaft
159471		00-705-0376	Bell Crank
159472		00-705-0375	Plate Assy
159476		00-705-7955	Arm Assy
159477		00-705-7956	Arm Assy
159480		00-713-9351	Bushing
159481		00-705-0374	Arm With Hub Extension (Figures)
159482		00-712-6274	Arm Assy
159483		00-705-0373	Bracket
159487		00-701-7984	Plate
159488		00-701-7427	Bracket
159489		00-701-7428	Separator
159490		00-701-7429	Plate
159491		00-701-7430	"
159492		00-701-7431	"
159493		00-701-7432	"
159494		00-701-7451	"
159495		00-701-7450	Beam
159496		00-701-7449	"
159497		00-701-6322	"
159498		00-701-6323	Lever
159499		00-701-6325	Lever
159500		00-705-0371	Beam
159501		00-705-6018	"
159502		00-705-0369	Guide
159503		00-714-0637	Shaft

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0523 122744	5815	00-332-2052	Washer, Felt
122752		00-525-1182	Wick Oil Felt
122754		00-318-5328	Sleeve Cam
122838		00-370-1204	Shim Spacer
122974		00-370-1203	Nut Capstan
123141		00-392-1870	Bushing
123315		00-392-1871	Error Lock Mechanism
123316		00-392-1872	Bracket
123320		00-392-1875	Spring
123321		00-392-1876	Stiffener
123325		00-392-1879	Spring
123329		00-392-1881	Plate
123331		00-392-1883	Lever
123333		00-392-1884	Spring
123334		00-392-1885	Stud
123335		00-392-1886	Cam Sleeve
123336		00-392-1887	Ratchet
123338		00-392-1889	Cam
123339		00-392-1890	Spacer
123340		00-392-1891	Cam
123342		00-392-1893	Shaft
123344		00-392-1894	Backstop
123345		00-392-1895	Yoke
123347		00-392-1897	Extension Armature
123348		00-392-1898	Shaft
123349		00-392-1899	Fawl Assembly
123351		00-392-1900	Drive Fawl Assembly
123352		00-392-1901	Lever
123354		00-392-1902	Fawl
123359		00-392-1907	Stud

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 123360	5815	00-392-1908	Eccentric
123361		00-392-1909	Sleeve
123364		00-392-1911	Bracket
123367		00-392-1914	Bracket Assembly
123368		00-392-1915	Bracket
123369		00-392-1916	Timing, Contact Assembly
123370		00-392-1917	Motor Assembly
123371		00-392-1918	Plate
123373		00-392-1920	Block Mounting
123374		00-392-1921	Gear
123377		00-392-1924	Hood
123378		00-392-1925	Ratchet Assembly
123380		00-392-1926	Main Shaft Assembly
123381		00-392-1927	Shaft
123382		00-392-1928	Arm Drive
123383		00-392-1929	Cam
123384		00-392-1930	Cam
123385		00-392-1931	Cam
123386		00-392-1932	Spacer
123387		00-392-1933	Spacer
123388		00-392-1137	Cam
123389		00-392-1934	Cam
123390		00-392-1935	Cam
123391		00-392-1936	Gear
123392	5945	00-392-1937	Relay Assembly
123393	5815	00-392-1938	Top Plate Assembly
123394		00-392-1939	Plate
123404		00-392-8867	Bracket Assembly Bar Return
123406		00-392-1950	Bracket
123408		00-392-1551	Lever
123409		00-392-1952	Bracket

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 123410	5815	00-392-1953	Pawl Assembly
123413		00-392-1954	Bracket Assembly
123414		00-392-1955	Bracket
123415		00-392-1956	Bushing
123417		00-392-1958	Bracket Assembly
123418		00-392-1959	Bracket
123419		00-392-1960	Bracket
123420		00-392-1961	Mounting Strip
123421		00-392-1962	Plate
123422		00-392-1963	Strip
123423		00-392-1964	Cover
123425		00-392-1966	Filter Unit Assembly
123426		00-392-1967	Bracket
123428		00-392-1968	Stud
123429		00-392-1969	Bracket
123430		00-392-1970	Plate
123436		00-392-1973	Bracket
123439		00-392-1976	Bracket
123441		00-392-1978	"
123442		00-392-1979	"
123445		00-392-1982	"
123447		00-392-1984	"
123448		00-392-1985	Plate
123451		00-392-1986	Bracket
123453		00-392-1987	Plate
123456		00-392-1990	Bracket
123457		00-392-1991	Cover
123459		00-392-1993	Tape Notch Assembly
123461		00-392-1994	Plate
123466		00-392-1995	"
123468		00-392-1996	Angled Tape Contact Assembly
123469		00-392-1997	Bracket

OLD IDENTIFICATION NUMBER.	GROUP CLASS	NEW IDENTIFICATION NUMBER	
		CATALOGUE NO.	DESCRIPTION
0623 123470	5815	00-392-1998	Wire
123471		00-392-1999	Spring Contact
123472		00-392-2000	Cam
123475		00-392-2001	Bracket
123476		00-392-2002	Tape Out Contact Assembly
123477		00-392-2003	Receptacle Bracket Assembly
123479		00-392-2004	Hood
123480		00-392-2005	Tape Reader Sensing Assembly
123481	5975	00-392-2006	Clamp
123485	5815	00-392-2007	Cover
123492		00-392-2011	Support Bar
123683		00-219-6955	Lever
123772		00-392-2012	Spacer
123776		00-392-2013	Bracket
123784		00-392-2014	Cam
123945		00-318-5332	Ribbon Guide
123957		00-392-2015	Fuse Bracket Assy
124177		00-313-5388	Washer
124189		00-525-0876	Stud
124211		00-392-2020	Cover
124396		00-646-9219	Switch Assembly
124423		00-392-2021	Top Cover Assembly
124424		00-525-1183	Carrying Case
124435		00-309-3820	Type Bar Backstop Assembly
124556		00-392-2022	Bracket
124612		00-594-5264	Screw
124737		00-392-2024	Cover
124742		00-392-2026	Plug Connector Cover Assembly
124819		00-392-2028	Lid

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 124821	5815	00-392-2029	Lead Assembly
124845		00-392-2030	Spring
124846		00-392-2031	"
124854		00-392-2034	Shim
124994		00-345-8600	Post
125013		00-392-2047	Strap
125120		00-412-4493	Screw
125122		00-369-9986	Screw 2-56 X $\frac{3}{4}$ RH
125127		00-412-4495	Screw
125155		00-369-8662	Screw 6-40 X $\frac{1}{2}$ Phil
125179		00-369-6671	Screw
125197		00-369-8674	"
125205		00-369-8679	Screw 6-40 X 7/16 Phil
125236		00-205-4662	Spring
125238		00-472-4971	Spring Extension
125241		00-205-4588	Spring
125243		00-369-9395	Spring Torsion
125250		00-209-9948	Spring
124039		00/TT124039	Relay Pole
124134		00/TT124134	Adjusting Spring
124828		00/TT124828	Pad
125003		00/TT125003	Screw
125010		00/TT125010	Washer
125112		00/TT125112	Screw
125127		00/TT125127	"
125171		00/TT125171	"
125175		00/TT125175	"
125219		00/TT125219	Nut
125246		00/TT125246	Spring Governor Connect
125252		00-391-0842	Spring
125253		00-205-4586	"

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER.		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 125257	5815	00-597-2264	Spring Extension
125258		00-391-0844	" Tension
125262		00-258-0128	Spring
125268		00-351-7796	"
125272		00-392-2125	Pin
125289		00-091-9567	"
125307		00/TT125307	Washer
125330		00-370-0016	Screw
125404		00-237-7873	Lamp Red 110V
125418		00-392-2184	Spring
125421		00-392-2186	Dowell Guide Plate
125422		00-392-2187	Pin
125427		00-369-9267	Bushing
125430		00-356-3051	Springs, eye
125434		00/TT125434	Washers Spacer
125441		00-392-2201	Spring contact.
125444		00/TT125444	Spring Assy. Lamp Contact 42 EA
125450		00/TT125450	Post Anchor
125471		00-392-2223	Disc Assembly Spring
125490		00/TT125490	Roller
125493		00-392-2230	Code Punches
125633		00-392-1140	Plate guide
125637		00/TT125637	Feed Roll
125642		00/TT125642	Bracket Assy. Tape Roll
125645		00/TT125645	Guide Tape Twister
125646		00-392-1144	Plate Upper
125647		00/TT125647	Plate Lower
125686		00-392-2296	Detant Level Assy
125688		00/TT125688	Bracket with pin
125696		00-392-2306	Post
125757		00-448-3654	Wrench

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 125760	5815	00-412-9074	Open Wrench 3/16"
125777		00-412-5312	Wrench
125816		00-392-2331	Screw Bridge
125815		00-314-1782	Contact Assembly
125817		00-392-2332	Bridge Cont Screw Lower
125818		00-369-9295	Insulator
125820		00-369-9296	Tip
125828		00-369-9421	Shaft
125829		00-392-2334	Lever
125833		00-392-2335	" guide
125844		00-392-2336	Adjusting lever
125848		00-392-2337	Contact lever
125849		00-392-2338	" "
125850		00-392-2339	" "
125851		00-392-2340	" " No. 4
125852		00-392-2341	" " No. 5
125855		00-369-9297	Terminal lug
125856		00-518-5553	Block Term
125858		00-392-2344	Feed Pawl
125860		00-392-2345	End Bracket
125861		00-60-0031	Feed Roll
125862		00-392-2347	Feed Wheel Bearing
125867		00-392-2348	Detent Bracket
125868		00-392-2349	Detent Assembly
125869		00/TT125869	Lever
125870		00/TT125870	Roller
125871		00-392-2351	Bracket Tape Retaining Lid
125872		00-369-9422	Shaft
125873		00-392-2352	Latch
125874		00-392-2353	Bracket End, left

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 125882	5815	00/TT125882	Terminal
125914		00-369-8720	"
125935		00-392-2357	Spring
126782		00-392-2432	Sleeve
126955		00-696-9292	Carrier with pin and ribbon
128271		00-219-6969	Screw
128357		00-593-8775	Ring retainer
128670		00-340-3675	Spring
129579		00-318-5344	Wick felt
129966		00/TT129966	End Spindle
130499		00-807-5343	Bearing
131069		00-525-0825	Stud
131070		00-392-1150	"
131097		00/TT131097	Terminal
131383		00-021-0944	Cable
135011		00-303-4355	Lever
135059		00/TT135059	Scale Weighing
150026		00-370-0939	Lever
150027		00-370-1058	"
150028		00-370-0940	Disc
150029		00-697-9389	Wick
150030		00-370-1360	Roller
150032		00-370-0941	Disc
150033		00-370-0942	"
150034		00-370-0943	"
150035		00-370-0944	"
150038		00-370-0945	Latch
150039		00-370-0269	Stud
150040		00-370-0946	Screw
150043		00-370-1059	Shoe
150044		00-370-1060	Shoe
150045		00-370-0268	Bearing

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER.	
	GROUP CLASS	CATALOGUE NO. DESCRIPTION
0623 150046	5815	00-370-0269 Bearing
150047		00-370-0270 "
150048		00-370-0827 Spring
150050		00-370-0480 Spacer
150051		00-370-0272 Cam
150052		00-370-0273 "
150053		00-370-0479 Bracket.
150054		00-370-1111 Rail Assembly
150055		00-370-0478 Stud
150056		00-370-0602 Arm
150059		00-370-0859 Bail Assembly
150276		00-370-0428 Lever Assembly
150288		00-370-0605 Bracket Assembly
150289		00-370-0582 Stud
150293		00-370-0601 Plate
150298		00-370-0366 Bushing
150301		00-370-0510 Plate
150302		00-370-0509 Shim
150304		00-370-0507 Bracket.
150310		00-370-0503 Lever.
150311		00-370-0502 "
150318		00-370-0446 Stud
150327		00-370-0439 Roller
150335		00-370-0955 Gear
150336		00-370-0862 Bushing
150342		00-370-0958 Screw
150348		00-370-0962 Shaft
150349		00-370-0863 Arm
150350		00-370-0963 Shaft
150351		00-370-0864 Stud
150352		00-370-0369 Bushing.
150353		00-370-0964 Stud

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER.	
	GROUP CLASS	CATALOGUE NO. DESCRIPTION
0623 150354	5815	00-370-0965 Arm Trip
150355		00-370-1063 Lever Latch
150356		00-370-0966 " Trip
150358		00-370-0968 " "
150361		00-370-0970 Spacer
150219		00-370-0489 Screw
150224		00-370-0488 Pulley.
150225		00-370-1113 Rope Assembly
150228		00-370-0364 Spacer.
150229		00-370-0604 "
150230		00-370-0363 Plate
150232		00-370-0495 Retainer
150233		00-370-0490 Roller
150234		00-370-0496 "
150235		00-370-1114 Bushing
150237		00-370-0412 Lever
150238		00-370-0413 Bracket
150241		00-370-0950 Spring
150244		00-370-0416 Link
150245		00-370-0309 Bracket
150247		00-370-0417 Link
150251		00-370-0418 Ratchet
150255		00-370-0365 Bushing
150263		00-370-0860 Bail Assembly
150265		00-370-0421 Shaft
150266		00-370-0422 Lever
150267		00-370-0423 Clamp
150269		00-370-0424 Roller
150270		00-370-0425 Link
150271		00-370-0426 Arm
150274		00-370-0427 Bracket
150061		00-370-1145 Head

<u>OLD IDENTIFICATION NUMBER.</u>		<u>NEW IDENTIFICATION NUMBER.</u>	
		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>
0623	150063	5815	00-370-0475
	150064		00-370-0948
	150065		00-370-0949
	150068		00-370-1061
	150072		00-370-0474
	150073		00-370-0473
	150076		00-370-0471
	150077		00-370-1190
	150078		00-370-0470
	150079		00-370-0360
	150091		00-370-0464
	150175		00-370-1112
	150184		00-370-0482
	150193		00-370-0361
	150194		00-370-0485
	150196		00-370-0486
	150197		00-370-0491
	150202		00-370-0362
	150203		00-370-0492
	150204		00-370-0493
	150206		00-370-0494
	150208		00-370-0498
	150214		00-370-0483
	150215		00-370-0603
	150218		00-370-0487
	135060		00/22135060
	135561		00-160-0013
	135679		00/TT135679
	135680		00/TT135680
	135694		00/TT135694
	135716		00-524-3426

<u>OLD IDENTIFICATION NUMBER.</u>		<u>NEW IDENTIFICATION NUMBER.</u>	
		<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>
0623	135771	5815	00/TT135771
	135901		00-767-3433
	136148		00-979-9179
	138034		00-591-4771
	138591		00/TT138591
	138868		00-600-5574
	139676		00/TT139676
	142554		00/TT142554
	142555		00/TT142555
	143089		00/TT143089
	143181		00-776-7898
	146605		00-066-6665
	150000		00-412-5080
	150001		00-370-0263
	150003		00-370-0264
	150004		00-370-1110
	150010		00-369-9164
	150013		00-370-0937
	150014		00-370-0938
	150016		00-370-0265
	150363		00-370-0971
	150364		00-370-0972
	150365		00-370-0973
	150366		00-370-0974
	150369		00-370-0976
	150377		00-370-0983
	150381		00-370-0985
	150382		00-370-0986
	150383		00-370-0987
	150386		00-370-0981
	150387		00-370-0982
	150391		00-370-0989
	150392		00-370-0990

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER.		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150395	5815	00-370-0991	Screw 6-40 Shoulder
150396		00-370-0992	Lever Assembly Positioning
150397		00-370-0993	Lever Assembly
150398		00-370-0994	Stud
150399		00-370-0995	Shaft
150401		00-370-0996	Clamp
150410		00-370-0998	Stud
150411		00-370-0999	Washer
150412		00-370-1000	Arm Follow
150413		00-370-1001	" "
150414		00-370-1002	Bushing
150419		00-370-0866	Shaft
150420		00-370-1004	Lever
150423		00-370-1052	Stud Pivot Right
150425		00-370-1005	Lever
150428		00-370-1007	"
150429		00-370-1008	Stud
150431		00-370-1009	Lever Trip
150434		00-370-1011	Bail
150436		00-370-0867	Bushing
150439		00-370-1014	Gear
150440		00-370-1015	Hub.
150441		00-370-1016	Gear
150444		00-370-1018	Lever
150447		00-370-1021	Arm
150450		00-370-1022	"
150451		00-370-0434	Link
150452		00-370-1023	Bearing
150453		00-370-1024	Shaft with Arm
150471		00-370-0868	Stud

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER.		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150475	5815	00-370-1034	Bracket
150479		00-370-0871	Stud
150481		00-370-0872	Shaft
150482		00-370-0873	Plate Nut
150507		00-370-0430	Spring
150525		00-370-0332	Bracket
150531		00-370-0567	Plate Clamp.
150535		00-370-0565	Spring
150536		00-370-0564	Spring extension.
150537		00-370-0563	Ball Bearing
150538		00-370-0881	Cylinder
150543		00-370-0562	Screw 3-48 x ¹¹ / ₃₂ Phil
150544		00-370-0560	Handle
150545		00-370-0559	Bracket
150546		00-370-0558	"
150547		00-370-0557	Shaft
150549		00-370-0556	Collar
150554		00-412-9165	Plate
150557		00-370-0554	Bracket
150558		00-370-0553	Spring, tension
150559		00-370-0552	" "
150561		00-412-9166	Arm
150563		00-370-0550	Spring
150576		00-412-9171	Spring with contact
150585		00-412-9174	Bar Feed
150588		00-412-9175	Cont. with point electrical
150598		00-412-9176	Track
150642		00-370-0540	Bell Crank
150646		00-370-0539	Screw
150647		00-370-0538	Eccentric
150648		00-370-0537	"

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150649	5815	00-370-0576	Washer
150650		00-370-0610	Bushing
150651		00-370-0334	Gear Spur
150652		00-370-0379	Screw 4-40 ^{37/64} Phil
150656		00-370-0390	Hand Wheel
150658		00-370-0391	Gear
150665		00-370-0383	"
150666		00-370-0394	" Spur.
150668		00-370-0396	Collar
150669		00-370-0387	Shim
150670		00-370-0499	"
150672		00-472-9178	Bearing
150673		00-370-0388	Shaft
150677		00-370-0805	Feed Pawl
150678		00-370-1143	Pawl Feed
150685		00-412-9181	Plate
150687		00-370-0340	Post
150689		00-412-9182	Block
150693		00-370-0391	Stud
150694		00-412-9183	Slide
150705		00-370-0372	Bushing
150710		00-370-0393	Screw 6-40 x 1 1/2" Phil
150711		00-370-0394	Washer
150712		00-370-1116	Cable Assembly
150714		00-370-1035	Bearing
150715		00-370-0395	Gear Spur
150718		00-370-0396	Flatter
150719		00-370-0397	Retainer
150720		00-370-0587	"
150721		00-370-0536	Arm

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150722	5815	00-370-0585	Arm Assembly
150728		00-412-9187	Rail "
150731		00-370-0398	Slide
150732		00-370-0399	"
150733		00-370-0400	"
150738		00-412-9188	Guide Assembly
150746		00-370-0374	Bushing
150748		00-370-0402	Stud
150750		00-370-0403	Plate
150751		00-370-0404	Block
150752		00-370-0405	Stud
150753		00-370-0406	Roller
150754		00-370-0497	Roller lock lever
150755		00-370-0407	Stud
150757		00-370-0886	Arm
150758		00-370-1117	Pulley
150770		00-370-1118	Crank Bell
150771		00-370-1119	Crank w/hub-Bell
150776		00-370-0620	Lever lock
150777		00-370-0621	Bail
150781		00-370-0622	Stud
150796		00-370-0627	Disc
150798		00-370-1120	Ratchet
150800		00-370-0629	Stud
150803		00-370-0631	Spring flat
150804		00-370-0632	Finger
150805		00-370-0633	Shim
150806		00-370-0634	Plate
150807		00-370-0635	Retainer Felt
150809		00-370-0636	Gear Spur
150811		00-370-0376	Stud
150815		00-370-0639	Bushing
150816		00-370-0637	Lever

OLD IDENTIFICATION NUMBER.	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150821	5815	00-370-0640	Spacer
150824		00-370-0642	Track with stiffener
150826		00-370-0644	Finger
150827		00-370-0645	Drum
150830		00-370-0890	Bushing
150831		00-370-0891	Ring Retaining
150852		00-370-0646	Key
150838		00-370-0647	Ring Retain
150849		00-370-0705	Washer ins
150850		00-370-0706	Insulator
150853		00-370-0707	Bushing E O O
150856		00-370-0708	Arm Moveable Contact
150857		00-370-0709	Clamp
150858		00-370-0710	Bracket
150859		00-370-0711	"
150865		00-370-0712	Screw
150866		00-370-0713	Clamp
150868		00-370-0342	Washer Ins
150869		00-370-0714	Spring
150872		00-370-0715	Stud
150873		00-370-0716	Spacer
150877		00-370-0717	Bracket Arm
150879		00-370-0718	Cover
150880		00-370-0719	Spring Bush
150881		00-370-0649	Spring Brush
150882		00-370-0650	Brush Electrical Contact
150884		00-370-0651	Mounting
150885		00-370-0652	Plate Brush
150886		00-370-0653	Plate
150889		00-370-0654	Lever Trip
150891		00-370-0655	Block Assembly
150894		00-370-0656	Bar
150895		00-370-0892	Arm

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623 150900	5815	00-370-0659	Bail
150903		00-370-0661	Block
150904		00-370-0662	Block
150907		00-370-0343	Spindle
150909		00-370-0664	Screw 6-40 Shoulder
150911		00-370-0411	Bushing
150912		00-370-0666	Screw
150913		00-370-1121	Bail
150915		00-370-1122	Stripper
150919		00-370-0667	Arm
150923	5330	00-370-0668	Washer Felt
150926	5815	00-370-0671	" "
150927		00-370-0672	Wick Oiling
150929		00-370-0673	" "
150930		00-370-0674	Washer Felt
150932		00-370-0676	Bushing
150937		00-308-0318	Lever
150948A		00-392-2408	Plate
150949	9905	00-392-1151	Plate name
150950	5815	00/TT150950	Plate name
150961		00-370-1036	Bushing
150966		00-370-0687	Insulator
150969		00-370-0688	Spring
150970		00-370-0576	Bearing
150975		00-370-0689	Cup Dashpot Valve
150976		00-370-0345	Bracket
150978		00-370-0690	Screw
150979		00/TT150979	Capacitor
150980		00-370-0681	Washer
150987		00-370-0693	Spacer
150988		00-370-1298	Wheel Hand
150990		00-370-0694	Washer
150991		00-370-0695	"

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	150992	5815	00-370-0696 Stud
	150995		00-370-0697 Bushing
	150997		00-370-0698 Pin
	150998		00-370-0699 Spacer
	151008		00-370-0897 Lever Assembly
	151013		00-370-0731 Bail
	151014		00-370-0732 Link
	151018		00-370-1746 Stud
	151023		00-370-0734 Guide
	151025		00-370-0735 Lever Assembly
	151026		00-370-0736 Arm
	151030		00-370-0738 Shaft
	151032		00-370-0739 Bell Crank
	151036		00-370-0741 Screw
	151037		00-370-0742 Lever Assembly
	151039		00-370-0744 Stud
	151041		00-370-0745 Screw
	151043		00-370-0747 Plate
	151045		00-370-0748 Bar Assembly
	151051		00-370-0749 Lever
	151052		00-370-0750 Lever
	151053		00-370-0751 "
	151054		00-370-0752 Stud
	151055		00-370-0753 Post
	151056		00-370-0754 Stud
	151057		00-370-0755 Screw
	151059		00-370-0756 Stud
	151060		00-370-1909 Gear Set
	151062		00-370-0757 Stud
	151063		00-370-0758 Spacer
	151064		00-370-0759 Plate
	151065		00-370-0769 Bail

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151066	5815	00-370-0770 Bail
	151067		00-370-0771 "
	151068		00-370-0772 Lever
	151072		00/TT151072 Wedgelock
	151073		00-318-5368 Screw
	151075		00-309-2810 Gear Set
	151076		00-370-0775 Wedge
	151080		00-370-0776 Washer
	151082		00-370-0778 Screw
	151084		00-370-0779 Bar
	151085		00-370-0780 "
	151086		00-370-0781 Bar Code
	151087		00-370-0782 " "
	151088		00-370-0783 " "
	151089		00-370-0784 " "
	151090		00-370-0785 Screw 6-40 Pilot
	151091		00-370-0786 Plate Wear
	151092		00-370-0787 Frame
	151096		00-333-2562 "
	151097		00-370-1149 Shaft
	151098		00-370-0791 Stud
	151099		00-370-0792 Extension Rocker Bail
	151100		00-332-4519 Gear Set
	151101		00-370-0793 Guide
	151102		00-370-0763 Pawl
	151103		00-370-0764 Spring
	151104		00-370-0765 Clip Retaining
	151105		00-370-0766 Lever Extension
	151106		00-370-0767 Plate Nut
	151113		00-370-0761 Strip
	151115		00-370-0762 Lever
	151118		00-370-0797 Plate
	151126		00-370-0798 Spacer

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151129	5815	00-370-0800 Gear
	151130		00-370-0801 Pinion
	151131		00-370-0802 Gear
	151134		00-370-0773 Pinion
	151135		00-320-8133 Gear
	151140		00-370-0803 Plate
	151145		00-370-0804 Screw
	151146		00-370-0805 Strap Typing Unit MTG
	151151		00-370-0808 Cam Sleeve
	151152	5305	00-370-0809 Screw 4-40x3/16 Hex
	151154	5815	00-370-0700 Sleeve Gear
	151157		00-370-0826 Shaft
	151158		00-370-0825 Guide
	151161		00-370-0822 Shaft
	151167		00-370-0820 Bracket
	151169		00-370-0819 Screw 4-40 Special
	151171		00-370-0818 Toggle Contact
	151173		00-370-0817 Screw 4-40 Contact
	151176		00-370-0816 Base
	151177		00-370-0815 Terminal Lug
	151179		00-370-0813 Terminal
	151180		00-370-0812 Link Toggle
	151182		00-370-0811 Washer Insulating
	151183		00-370-0810 Insulator Bushing
	151184		00-370-0900 Extensions
	151185		00-370-0901 Guide
	151188		00-370-0517 Guide
	151189		00-370-0904 Bail Clutch Strip
	151190		00-370-0905 Lever
	151191		00-370-1043 Bracket

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER		
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151193	5815	00-370-0906 Bumper Code Bar Rail
	151201		00-694-1679 Oiler
	151205		00-370-0909 Plate
	151207		00-370-0911 Stud
	151211		00-370-0912 Lever
	151213		00-370-0913 Stud Eccentric Pivot
	151218		00-370-0915 Rod Break
	151222	5330	00-370-0132 Washer Felt
	151223	5815	00-370-0133 Screw 4-40 Shoulder
	151224	5815	00-370-0134 Screw 6-60 Pilot
	151225		00-370-0135 Washer Felt
	151226		00-370-0136 Strip Screw
	151227		00-370-0137 Bracket
	151228		00-370-0138 Bracket with Bearing
	151229		00-370-0139 Washer Flat
	151234		00-370-0143 Wheel Front Ratchet
	151235		00-370-0142 Wheel Rear Ratchet
	151236		00-370-0144 Hub Ratchet Wheel
	151237		00-370-0145 Spring Flat
	151240		00-370-0148 Pawl Latch
	151241		00-370-0149 Lever Latch
	151244		00-370-0152 Bushing
	151245		00-370-0153 Washer Felt
	151246		00-370-0154 Shim
	151286		00-370-0519 Key Lever Assembly
	151287		00-370-0520 Key Lever Assembly
	151288		00-370-0521 " " "
	151289		00-370-0522 " " "
	151290		00-525-1773 " " "
	151291		00-370-0523 " " "
	151292		00-370-0524 " " "

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151293	5815	00-370-0525	Key Lever Assembly
	151294		00-370-0526	" " "
	151295		00-370-0600	" " "
	151296		00-370-0527	" " "
	151297		00-370-0528	" " "
	151298		00-370-0529	" " "
	151299		00-370-0530	" " "
	151300		00-370-0531	" " "
	151301		00-370-0532	" " "
	151302		00-370-0533	" " "
	151304		00-370-0535	" " "
	151309		00-370-0460	" " "
	151310		00-370-0459	" " "
	151311		00-370-0458	" " "
	151312		00-370-0457	" " "
	151314		00-370-0455	" " "
	151315		00-370-0454	" " "
	151317		00-370-0452	" " "
	151318		00-370-0451	" " "
	151319		00-370-0450	" " "
	151320		00-370-0599	" " "
	151321		00-370-0598	" " "
	151322		00-570-0597	" " "
	151326		00-370-0156	Plate Assembly
	151329		00-TT151329	Switch Sensitive
	151333		00-370-0160	Felt Cam Sleeve
	151335		00-370-0161	Stud
	151338		00-370-0162	Spacer
	151341		00-370-0163	Lever
	151342		00-370-0164	Bracket

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	151348	5815	00-370-1142	Cable Assembly
	151350		00-370-0166	Screw 4-40 Shoulder
	151351		00-370-1299	Hook Spring
	151352		00-370-0167	Spring Flat
	151456		00-TT-151456	Bracket
	151353		00-370-1126	Window Plastic
	151354		00-370-0168	Screw Special 2-56
	151355		00-370-0169	Bar, Lock
	151359		00-370-0171	Box Assembly
	151362		00-174-0971	Wick Oiling
	151367		00-370-0174	Plate
	151369		00-370-1188	Suppressor
	151379		00-091-9551	Gauge
	151382		00-370-1240	Screwdriver
	151383		00-370-1301	Remover Key Lever
	151384		00-370-1241	Holder with Blades Screw
	151392		00-370-1242	Tweezers
	151394		00-TT-151394	Brush Typewriter
	151395		00-370-1566	Spring Extension
	151399		00-370-0917	Bracket
	151402		00-370-0177	Core
	151410		00-370-0181	Clip
	151411		00-705-5015	Block Term
	151412		00-531-1823	Insulator
	151415		00-370-0184	Block
	151437		00-370-0190	Stud
	151442		00-607-3877	Screw 6-40x $\frac{1}{2}$ " HEX
	151443		00-309-2808	Eccentric

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-713-0916	Nut
		00-524-3410	Spring
		00-TT151456	Bracket
		00-606-5344	Gasket Window
		00-606-5356	Seal
		00-370-0593	Screw Thumb
		00-370-1078	Screw
		00-091-9615	Guide Paper
		00-370-1140	Screw
		00-370-1169	Foot Mounting
		00-370-1085	Bushing
		00-370-0701	Strap
		00-370-1201	Washer Lock
		00-370-1086	Arm
		00-370-0351	Plate
		00-370-0193	Spacer
		00-370-0194	Block Guide
		00-370-0195	Screw 10-32x $\frac{1}{4}$ " HEX
		00-370-0196	Retainer
		00-370-0199	Washer Flat
		00-370-0200	Bushing
		00-370-1908	Spacer
		00-370-0202	Screw
		00-370-0203	Bushing
		00-370-1749	Strap
		00-370-0201	Nut
		00-370-0205	Strip
		00-370-0206	Nut
		00-370-0208	Screw
		00-370-0212	Washer
		00-370-1089	Lever
		00-370-0214	Screw

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-302-6340	Spring
		00-370-0924	Screw
		00-370-0590	Roller
		00-370-0216	Roller
		00-370-0701	Stud
		00-370-0589	Bracket
		00-370-0217	Shim
		00-370-0515	Lever
		00-370-0925	Screw
	5305	00-370-1168	Screw
	5815	00-370-1259	"
	5305	00-370-1167	"
	5815	00-370-1166	"
		00-298-8480	"
	5305	00-370-0926	"
	5815	00-656-2373	"
	5815	00-370-1565	Spring
		00-370-0927	Screw
		00-370-0928	Spring
		00-370-0929	Nut
		00-370-1090	Pin
		00-370-1131	Arm
		00-370-0932	Button
		00-370-1139	Spring
		00-370-1165	"
		00-370-1177	"
		00-370-0936	Screw
		00-370-1198	Spring

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 151731	5815	00-370-1164	Screw
151733		00-659-3073	Screw
151736		00-370-1199	Spring
151738		00-370-1187	Screw
151794		00-370-1260	Motor
151819		00-091-9597	Wire
151820		00-370-1162	Spring
151827		00-607-3871	Strap
151830		00-370-2008	Bar
151832		00-370-1184	Screw
151833		00-370-1791	Frame
151834		00-370-1792	Plate
151835		00-370-1234	Lever
151837		00-370-1235	Stud
151840		00-370-1451	Rail Assembly
151841		00-370-1731	Channel Assembly
151842		00-370-1732	Retainer
151843		00-370-1733	Screw
151844		00-370-1742	Screw
151845		00-370-1735	Lever
151846		00-705-5777	Post
151848		00-370-1734	Lock
151849		00-370-1452	Guide Assembly
151851		00-370-1453	Lever
151852		00-370-1454	Lever Assembly
151853		00-370-1455	Lever
151854		00-370-1456	Lever
151855		00-370-1457	Lever
151857		00-370-1736	Rail
151858		00-370-1733	Rail Assembly
151859		00-370-1784	Link
151861		00-370-1785	Bail

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 151867	5815	00-TT151867	Bracket
151879		00-370-1458	Stud
151884		00-370-1407	Bracket
151885		00-370-1408	Plate
151886		00-370-1459	Stud
151889		00-092-1417	Extension
151939		00-TT151939	Grommet
151959		00-091-9552	Hook
151983		00-370-1175	Shield
151989		00-370-1182	Suppressor
152000		00-TT152000	Base
152723		00-370-1714	Spring
152724		00-092-1426	Spring Tension
152725		00-370-1713	Spring
152726		00-370-1422	Bushing
152755		00-370-1989	Strap
152764		00-860-9617	Gear Driver 18T
152765		00-860-9618	Gear Driver 18T - Pinion
152766		00-TT152766	Set of Gears
152768		00-631-3296	Window Glass for Model 28 Page Printer Set
152814		00-332-8849	Stud
152815		00-332-8850	Lever Assembly
152818		00-040-3144	Lever Detent
152819		00-040-3146	Lever Detent
152820		00-040-3164	Lever Feed
152821		00-040-3165	Lever Feed
152823		00-332-8855	Bracket
152824		00-332-8856	Bracket

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	152826	5815	00-092-1497	Pin
	152827	5815	00-330-9049	Bracket Assembly
	152828		00-332-8861	Bracket Assembly
	152831		00-092-1428	Clip
	152832		00-330-9042	Shaft
	152834		00-092-1429	Spring
	152835		00-596-4439	Wrench 5/16" x 3/8"
	152837		00-332-8895	Wrench 3/16" x 1/4"
	152007		00-TT152007	Key Lever
	152015		00-301-8533	Key Lever
	152020		00-TT152020	Key Lever
	152034		00-370-1211	Key Lever
	152035		00-370-1212	Plug
	152037		00-370-1216	Cover Container
	152039		00-370-1238	Container
	152040		00-370-1254	Lid Container
	152044		00-370-1213	Cover
	152045		00-705-5782	Guard
	152046		00-370-1214	Bracket
	152054		00-370-1268	Resistor
	152055		00-370-1215	Suppressor
	152058		00-370-1567	Spacer
	152059		00-370-1269	Cable
	152067		00-370-1409	Nipple
	152078		00-370-1239	Spring Flat
	152121		00-525-1057	Lever
	152122		00-370-1781	Screw
	152127		00-TT52127	Clip
	152131		00-TT152131	Key Lever
	152132		00-TT152132	Key Lever
	152140		00-091-9614	Bail

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	152223	5815	00-TT152223	Scale
	152250		00-370-1711	Stud
	152254		00-530-3159	Wick
	152255		00-679-8379	Bar Assembly
	152256		00-320-8116	Bar Code
	152292		00-091-9568	Clip
	152296		00-320-8097	Bracket
	152299		00-TT152299	Lever
	152318		00-TT152318	Switch
	152334		00-TT152334	Mod Kit
	152335		00-TT152335	Mod Kit
	152338		00-TT152338	Mod Kit
	152344		00-TT152344	Mod Kit
	152400		00-370-1460	Plate
	152401		00-370-1461	Guide
	152402		00-370-1462	Guide
	152403		00-370-1463	Bracket
	152404		00-370-1464	Bracket
	152405		00-370-1465	Lever
	152406		00-370-1466	Bracket
	152407		00-370-1467	Lever
	152409		00-370-1469	Lever
	152410		00-370-1470	Bail
	152411		00-370-1471	Lever
	152412		00-370-1472	Line
	152415		00-370-1262	Stud
	152420		00-370-1831	Core
	152421		00-370-1263	Bracket
	152422		00-370-1474	Armature Selector Magnet

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 152423	5815	00-370-1264	Bracket
152424		00-370-1252	Plate
152425		00-370-1251	Post
152427		00-370-1475	Latch with Bushing
152429		00-370-1715	Rack Sector
152432		00-370-1476	Arm with Hub
152436		00-370-1717	Knob
152438		00-370-1479	Rail Stop Arm
152439		00-370-1480	Shaft
152441		00-370-1482	Washer Flat
152445		00-092-1442	Spring
152447		00-370-1483	Shaft
152450		00-370-1250	Cam Selector
152456		00-370-1832	Holder Wick
152457		00-092-1423	Wick Oiling
152458		00-370-1249	Shield Terminal
152459		00-525-2075	Bracket Resistor
152460		00-370-1833	Bracket
152461		00-370-1834	Bracket
152462		00-370-1835	Latch Right
152463		00-370-1836	Latch Left
152464		00-370-1837	Insulator
152465		00-370-1983	Connector
152466		00-370-1984	"
152467		00-370-1985	"
152468		00-370-1964	Cable Assembly
152493		00-370-2007	Lever Latch
152494		00-688-5837	Wick Assembly
152495		00-370-2010	Bushing
152503		00-370-1741	Link

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 152505	5815	00-370-1486	Stud
152507		00-370-1487	Roller
152508		00-370-1488	Bracket
152509		00-370-1489	Bracket
152510		00-370-1490	Lever
152511		00-370-1719	Guide Assembly
152514		00-370-1491	Bail Assembly
152515		00-370-1492	Lever
152516		00-370-1248	Slide with Stud
152518		00-370-1247	Bail
152521		00-370-1493	Slide Assembly
152522		00-370-1411	Lever
152523		00-370-1494	Spring Flat
152524		00-370-1495	Bracket
152525		00-370-1496	Hub
152526		00-370-1497	Plate
152527		00-370-1498	Plate
152528		00-370-1499	Ratchet
152529		00-370-1500	Ratchet
152536		00-370-1502	Bail
152537		00-370-1503	Clamp
152538		00-370-1839	Plate Assembly
152539		00-370-1246	Guide Paper
152540		00-TT-152540	Bracket Latch Rail
152545		00-370-1504	Lever
152546		00-370-1721	Bracket
152547		00-370-1505	Shaft
152548		00-370-1840	Bar Assembly
152550		00-370-1722	Clamp

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-370-1507	Bar Code
		00-370-1508	" "
		00-370-1509	" "
		00-370-1787	Plate with Guard Rear
		00-370-1265	Bracket
		00-370-1723	Spacer
		00-370-1724	Bracket
		00-370-1725	Retainer
		00-370-1986	Plate
		00-370-1515	Bracket
		00-370-1516	Bracket
		00-370-1517	Track
		00-370-1788	Frame Assembly
		00-370-1789	Frame Assembly
		00-370-1726	Shaft
		00-370-1518	Bearing
		00-370-1519	Lever
		00-370-1520	Lever Shaft
		00-370-1266	Bracket
		00-370-1727	Clamp
		00-370-1525	Guide Assembly
		00-370-1728	Housing
		00-370-1413	Slide Assembly
		00-370-1526	Slide Assembly
		00-370-1527	Ball
		00-370-1528	Stud Bearing Left
		00-370-1529	Stud Bearing Right
		00-TT152625	Line Test Switch
		00-370-1414	Bracket
		00-370-1415	Bracket

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-370-1530	Washer Friction
		00-370-1787	Shaft
		00-370-1534	Plate
		00-370-8848	Washer
		00-370-1535	Lever
		00-370-1536	"
		00-370-1537	"
		00-370-1538	"
		00-370-1539	"
		00-370-1540	"
		00-370-1416	"
		00-370-1417	"
		00-370-1418	Guide
		00-370-1541	Bracket
		00-370-1542	Lever
		00-370-1543	Lever
		00-370-1544	Stud
		00-370-1560	Plate Guide
		00-370-1419	Bar Assembly
		00-370-1420	Pawl Function
		00-370-1547	Latch
		00-370-1421	Lever Blank Function
		00-370-1549	Plate
		00-370-1550	Shaft
		00-370-1551	Guide
		00-370-1552	Bar
		00-370-1553	"
		00-370-1554	"
		00-370-1555	"
		00-370-1556	"
		00-370-1557	"
		00-370-1558	"

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	152672	5815	00-370-1559	Bar
	152673		00-TT152673	"
	152675		00-302-3768	"
	152684		00-TT152684	"
	152693		00-TT152693	"
	152694		00-TT152694	Function Bar
	152708		00-370-1987	Lever
	152711		00-370-1790	Bracket
	152721		00-370-1729	Bar Code
	152839		00-092-1430	Spring
	152848		00-679-8403	Screw
	152871		00-092-1431	Spring
	152873		00-320-8153	Latch
	152874		00-320-8234	Shaft
	152875		00-092-1432	Spacer
	152876		00-332-8862	Bracket
	152877		00-320-8081	Bail
	152878		00-320-8101	Bracket
	152887		00-333-2580	Screw
	152888		00-318-5039	Screw
	152289		00-333-2564	Plate
	152890		00-318-5058	Washer
	152891		00-318-5059	Screw
	152894		00-313-5439	Bracket
	152924		00-TT152924	Stud
	152925		00-TT152925	Latch
	152968		00-886-6325	Nut Plate
	152971		00-091-9612	Bushing
	152972		00-TT152972	Handle
	152993		00-TT152993	Shoulder Screw
	152994		00-TT152994	Switch T.P.D.T.
	153020		00-091-9573	Guide Line

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	153021	5815	00-091-9572	Spring Tore
	153022		00-091-9574	Bushing
	153023		00-525-2242	Handle
	153024		00-TT153024	Shaft
	153027		00-TT153027	Post
	153030		00-332-4600	Ring Moxt
	153042		00-091-9583	Window Canopy Plastic
	153092		00-TT153092	Spring
	153101		00-318-5061	Grommet
	153103		00-TT153103	Screw
	153104		00-TT153104	Copy Holder Bracket
	153105		00-TT153105	Copy Holder Assembly
	153109		00-701-0468	Lever
	153114		00-TT153114	Wire Arm
	153116		00-318-5060	Button
	153172		00-091-9578	Spring Knse Link
	153173		00-091-9575	Line Assembly
	153174		00-091-9582	Link Assembly
	153175		00-091-9581	" "
	153180		00-091-9580	" "
	153181		00-091-9570	" "
	153183		00-091-9569	Slide Assembly
	153184		00-524-3415	Post
	153228		00-091-9571	Crank Assembly
	153229		00-091-9555	Bushing Shoulder
	153230		00-091-9576	Bar Assembly
	153231		00-091-9577	Bar Assembly
	153233		00-091-9579	Guide
	153234		00-091-9598	Lever
	153235		00-091-9596	Plate
	153236		00-302-6426	Gear Spur 42T.

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-091-9595	Arm
		00-091-9594	Roller
		00-091-9593	Bracket
		00-091-9592	Link Feed
		00-091-9591	Bracket
		00-318-5361	Bail
		00-318-5360	Shaft
		00-318-5359	Bracket
		00-315-3323	Bracket
		00-318-5358	Lever Trip
		00-091-9556	Bushing Shoulder
		00-091-9590	Bail
		00-318-5357	Link Feed
		00-325-1764	Motor Control Relay
		00-318-5356	Link Feed
		00-091-9589	Bracket
		00-091-9588	Bail
		00-091-9587	Bracket Assembly
		00-091-9586	Bail
		00-091-9585	Bushing
		00-091-9584	Arm Space
		00-091-9609	Plate
		00-091-9608	Bushing
		00-091-9606	Arm
		00-091-9605	Arm Stop
		00-320-8332	Shaft
		00-313-5622	Bracket
		00-313-5621	Lever Trip
		00-091-9557	Washer Flat
		00-091-9607	Bracket
		00-318-5355	Bail
		00-315-3336	Trip Link

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-315-3335	Lever
		00-315-3334	Bracket
		00-313-5619	Transfer Bail
		00-315-3333	Lever
		00-315-3332	Lever
		00-091-9601	Spring Extension
		00-318-5420	Spring Extension
		00-679-8477	Arm
		00-566-8821	Plate Link
		00-566-8822	Spacer
		00-679-8478	Cam
		00-679-8479	Shaft
		00-566-8823	Eccentric
		00-566-8824	Arm
		00-679-8483	Arm
		00-679-8484	Bushing
		00-567-2210	Spring
		00-566-8825	Arm
		00-652-2489	Lever
		00-679-8488	Bracket
		00-652-2490	Bar Code
		00-679-8490	Bar Code
		00-679-8491	Bracket
		00-524-3429	Blade Bail
		00-091-9611	Link Assembly Drive
		00-091-9610	" " "
		00-213-5884	Plate Assembly
		00-701-3931	Clamp Plate
		00-701-3933	Side Pad
		00-701-3935	Front Pad

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER			
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	153394	5815	00-886-8242	Back Pad
	153395		00-091-9604	Nut Plate
	153400		00-300-9755	Lamp Incandescent 60V
	153403		00-TT153403	Copy Tray
	153435		00-566-8827	Bar Function
	153437		00-566-8828	Bar
	153440		00-679-8548	Bar Function
	153444		00-315-3327	Key Lever Assembly
	153445		00-315-3320	" " "
	153484		00-TT153484	Screw
	153489		00-524-3425	Detent
	153530		00-524-3408	Plate
	153531		00-524-3407	Plate
	153532		00-524-3418	Screw
	153535		00-679-8560	"
	153538		00-621-2151	"
	153543		00-524-3411	Armature
	153545		00-533-4490	Bracket
	153550		00-652-2497	Link
	153553		00-701-1652	Roller
	153554		00-701-1653	Bracket
	153558		00-652-2500	Link Assembly
	153562		00-TT153562	Shaft
	153569		00-571-0132	Arm Trip
	153573		00-712-6146	Bail
	153574		00-TT153574	Roller
	153576		00-566-8829	Cam
	153577		00-607-3873	Washer Felt
	153579		00-TT153579	Bracket
	153580		00-TT153580	Bracket

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER			
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	153581	5815	00-679-8581	Handle
	153582		00-652-2502	Screw
	153583		00-571-0133	Lever
	153584		00-571-0134	Lever
	153586		00-679-8584	Guide
	153587		00-679-8585	Guide
	153608		00-524-3424	Fork
	153609		00-512-7345	Roller
	153610		00-679-8590	Spindle
	153611		00-679-8591	Disc
	153615		00-679-8592	Lever
	153621		00-TT153621	Cable Assembly
	153623		00-TT153623	Box Assembly
	153624		00-TT153624	Contact Assembly
	153634		00-309-2809	Collar
	153636		00-TT153636	Lever Assembly
	153637		00-TT153637	Spring
	153638		00-TT153638	Bracket
	153643		00-524-3422	Slide
	153647		00-524-0078	Plate
	153795		00-524-3423	Slide
	153799		00-621-2191	Screw
	153810		00-313-5963	Guide Ribbon
	153820		00-309-2806	Frame Printer Carriage
	153823		00-509-8909	Collar
	153839		00-309-2807	Screw
	152837		00-788-4874	Tachometer Generator
	152875		00-895-3591	Clamp
	153877		00-TT153877	Bracket
	153878		00-325-1791	Link
	153882		00-886-6332	Shock Mount

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-679-8603	Spring Assembly
		00-570-7381	Detent
		00-TT153890	Nut Adjusting
		00-TT153892	Motor
		00-TT153893	Screw (Stud)
		00-709-9396	Cap Cover
		00-709-9407	Cover
		00-709-9408	Plate Guide
		00-709-9410	Plate Cover
		00-895-3618	Disc
		00-893-3781	Disc
		00-TT153964	Counter Weight
		00-679-8613	Bracket
		00-679-8615	Gear
		00-709-9413	Slide
		00-709-9415	Plate Bearing
		00-709-9416	Plunger
		00-679-8618	Screw Adj.
		00-679-8619	Gear
		00-679-8616	Worm
		00-679-8620	Post
		00-856-0763	Bail
		00-856-0767	Shim
		00-709-9426	Plate
		00-709-9427	Bracket Slide
		00-623-9604	Meter Assembly
		00-706-6679	Bar Code
		00-705-5013	" "
		00-708-8409	" "
		00-705-5014	" "
		00-705-4989	" "

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>	
0623	154008	5815	00-701-7454	Guide
	154009		00-701-7455	Plate
	154010		00-701-7456	Bail Trans
	154011		00-701-7457	Guide
	154012		00-652-2507	Guide
	154013		00-701-7459	Bracket
	154014		00-652-2508	Post
	154019		00-652-2510	Stud
	154018		00-705-4990	Post
	154019		00-652-2511	Follower
	154020		00-706-0660	Seal
	154021		00-706-0659	Link
	154023		00-652-2512	Latch
	154025		00-706-0658	Plate
	154027		00-652-2513	Bell Crank
	154029		00-767-3394	Oiler
	154030		00-710-3771	Shaft
	154032		00-652-2514	Sleeve
	154033		00-652-2515	Lever
	154034		00-652-1602	Stop
	154036		00-652-6965	Plate
	154037		00-652-1603	Lever Arm
	154039		00-676-6967	Bracket
	154040		00-652-1604	Lever
	154045		00-652-1605	Screw Contact
	154048		00-TT154048	Latch Code Bar Rail
	154052		00-705-4992	Bar Locking
	154053		00-652-1607	Bail Arm
	154055		00-676-6970	Bracket
	154056		00-676-6971	Bracket
	154057		00-676-6972	Plate
	154058		00-676-6973	Plate

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 154059	5815	00-676-6974	Bracket
154066		00-652-1608	Lever
154067		00-652-1609	Lever
154068		00-676-6976	Bracket
154069		00-676-6933	Bracket
154070		00-676-6934	Guide
154072		00-768-3978	Bracket
154080		00-652-1611	Lock Wedge
154081		00-676-6936	Retainer
154084		00-704-9746	Bearing
154085		00-370-2808	Plate
154086		00-699-5483	Retainer
154089		00-676-6939	Post
154091		00-767-3411	Guide
154092		00-701-7812	Shaft
154094		00-705-3962	Clamp
154095		00-652-1612	Eccentric
154096		00-652-1613	Bushing
154099		00-652-1614	Bail
154101		00-676-6942	Plate
154102		00-701-6267	Plate
154106		00-676-6943	Bracket
154110		00-705-3963	Hood
154111		00-676-6984	Bail Assy
154117		00-676-6946	Bail Assy
154119		00-676-6947	Bracket
154120		00-652-1615	Lever
154121		00-652-1616	Lever
154122		00-652-1617	"

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623 154123	5815	00-652-1618	Lever
154124		00-652-1619	Lever
154125		00-652-1620	Spring
154127		00-TT154127	Nut
154129		00-784-9415	Bar Clutch Trip
154130		00-676-6992	Box
154131		00-676-6993	Cover
154135		00-603-7585	Fawl
154136		00-656-2380	Fawl
154138		00-TT154138	Washer
154140		00-652-2517	Bail Lock
154147		00-TT154147	Modification Kit
154154		00-652-1621	Cam
154166		00-652-1576	Suppressor
154175		00-084-4881	Channel
154176		00-676-6997	Bracket
154178		00-676-6998	Spring
154179		00-676-6999	Bail Assembly
154184		00-676-7001	Blade
154183		00-676-7000	Blade
154190		00-768-3983	Filter RF
154191		00-652-1577	Spring
154198		00-705-3965	Window
154199		00-651-7071	Shim
154200		00-TT154200	Frame
154201		00-651-7073	Shim
154203		00-651-7074	Bracket
154210		00-651-7092	"
154211		00-651-7107	"
154212		00-651-7109	Rail
154215		00-652-1578	Spring

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-1579	Wick
		00-TT154234	Bail, Code Bar
		00-591-6699	Spring
		00-651-6847	Lever
		00-651-6905	Lever
		00-651-6956	Extension
		00-651-6963	Extension
		00-709-1994	Contact W/Point
		00-713-2807	Bracket Contact Mounting
		00-713-2726	Mod Kit
		00-736-8552	Screw
		00-793-2146	Mod Kit
		00-778-3808	Mod Kit
		00-021-0809	Bail Assembly
		00-895-3611	Backstop Assembly
		00-085-4111	Cam
		00-777-9553	Stud
		00-777-9550	Spring
		00-776-9707	Copy Tray
		00-771-9477	Latch
		00-TT154416	Plate
		00-TT154418	Spring Flat
		00-729-6060	Window
		00-777-9548	Gasket
		00-TT54427	Clamp
		00-TT154433	Clamp
		00-TT154441	Plate Nut
		00-591-6712	Shaft

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-588-6239	Shaft
		00-895-0531	Fork
		00-TT154446	Cover
		00-TT154452	Cover
		00-TT154454	Pad
		00-736-8561	Guide Tape
		00-TT154463	Mount
		00-TT154481	Bar
		00-TT154482	Bar
		00-TT154483	Bolt Eye
		00-TT154484	Nut
		00-774-6395	Plate
		00-TT154494	Spring
		00-729-6059	Window
		00-TT154551	Bail
		00-652-1580	Latch
		00-652-1581	Cam Space
		00-652-1582	Plate Pallet Box Front
		00-652-1583	Wick
		00-651-7030	Retainer
		00-677-0096	Lubricator
		00-652-1584	Ring W/Roller
		00-TT154625	Ring
		00-652-1586	Drum
		00-TT154628	Governor Assembly Mechanism
		00-524-3420	Spring
		00-TT154639	Slide
		00-649-8073	Lever

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	154650	5815	00-701-3846	Clip
	154662		00-652-1587	Spacer
	154663		00-652-1588	Shaft
	154674		00-895-3619	Gear
	161780		00-712-9474	Ring Retaining
	161781		00-712-9475	Hub
	161782		00-712-9476	Gear
	161783		00-712-9477	"
	161784		00-034-7415	" 18T
	161787		00-712-9478	Shaft W/Bearing
	161788		00-712-9479	Hub
	161789		00-712-9480	Sprocket
	161790		00-034-7418	Gear 44T
	161800		00-766-1047	Bracket
	161803		00-766-1049	Guide W/Roller
	161804		00-712-9430	" "
	161805		00-712-9431	Guard
	161806		00-TT161806	Belt
	161819		00-712-9433	Guard
	161821		00-TT161821	Cable Assembly
	161824		00-712-9434	Stud
	161826		00-712-9435	Plate
	161831		00-708-3985	Washer Spring
	161835		00-TT161835	Plate Clamp
	161873		00-705-6013	Resistor
	161886		00-TT161886	Cable Assembly
	161887		00-TT161887	" "
	161888		00-TT161888	" "
	161895		00-772-3665	Shaft

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	161896	5815	00-705-5017	Gear Helical
	161897		00-705-5019	" "
	161898		00-TT161898	Hub
	161908		00-772-3642	Post Supporting
	161909		00-084-4945	Socket W/Resistor
	161911		00-TT161911	Knob
	161934		00-773-0266	Window
	161936		00-075-5771	Link
	161937		00-TT161937	Latch Assy
	161940		00-773-0267	Window Front
	161941		00-772-3645	Window Slide
	161956		00-TT161956	Latch Assembly
	161957		00-TT161957	Lamp Incandescent 6V
	161961		00-TT161961	Guide Line
	161964		00-TT161964	Clamp Tube
	161965		00-705-6057	Resistor
	162182		00-TT162182	Handle
	162183		00-TT162183	Bushing
	162228		00-TT162228	Insulator
	162283		00-TT162283	Plate
	162284		00-TT162284	Insulator
	162309		00-778-3807	Bar
	162333		00-712-6248	Stud
	162340		00-712-6249	Sleeve
	162470		00-TT162470	Adaptor Plate
	162485		00-823-1433	Link (Plate)
	162763		00-606-2033	Bushing (Ball Assy)
	162898		00-888-1178	Panel W/Tape Kit
	163003		00-795-9460	Gear
	163011		00-737-8214	Gear Idler (23T)

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	163012	5815	00-737-8221	Gear Clutch Driving 46T
	163113		00-TT163113	Washer Felt
	163299		00-TT163299	Gear
	163300		00-TT163300	Gear
	163363		00-807-1888	Stud Idler Gear Bearing
	163429		00-594-9064	Screw Shoulder
	163446		00-859-1803	Pinion
	163447		00-859-1804	Gear
	163587		00-TT163587	Bracket
	163590		00-793-2147	Gear
	163681		00-TT163681	Type Wheel Ary
	164467		00-797-2552	Post Release Bail Eccentric
	164468		00-797-2566	Bail Tape Lid Release
	164469		00-797-2567	Post Tape Lid
	164479		00-TT164479	Terminal
	164513		00-594-9083	Pawl
	164514		00-594-9084	Guide
	164586		00-TT164586	Type Box Assy Arrangement XE (in lieu of 155497)
	165082		00-799-5577	Clamp Cable
	166514		00-TT166514	Guide
	172060		00-TT172060	Bending Spring
	172638		00-594-9110	Screw
	172966		00-TT172966	Plate
	173130		00-TT173130	Pawl
	173166		00-TT173166	Fuse Panel
	173340		00-787-0358	Collar

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	173400ER	5815	00-TT173400ER	Assembly
	173405		00-TT173405	Filter RP
	173518		00-TT173518	Mod Kit
	173645		00-TT173645	Coupling
	173921		00-TT173921	Plate
	174349		00-877-3190	Plate
	173978		00-856-5335	Spring
	174422		00-TT174422	Filter
	174455		00-872-9159	Pawl Feed
	174457		00-TT174457	Modification Kit
	174506		00-085-4147	Block
	177005		00-898-1844	Contact
	178489		00-TT178489	Glip
	178728		00-979-3842	Spring
	178902		00-TT178902	Tape Guide
	179965		00-TT179965	Mod Kit
	180587		00-TT180587	Adjuster Tool
	180588		00-TT180588	" "
	180993		00-TT180993	" "
	182697		00-TT182697	Extractor
	193565		00-978-2530	Coupling
	194853		00-TT194853	Injector Oil
	204370		00-129-9809	Back Stop Mult
	195154		00-TT195154	Mod Kit
	195415		00-TT195415	Mod Kit
	199774		00-TT199774	Plate
	L16988		00-L16988	Cover for Teletype Reperforator
	L17019		00-L17019	Cover for Model 28 Reperforator
	L31719		00-L31719	Page Printer Model 28 Receiver only

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	L31720	5815	00-L31720 Page Printer Model 15 Receiver only
	L31721		00-L31721 Page Printer Model 15 Sending and Receiving
	L31722		00-L31722 Page Printer Model 15 Send/Receive with Keyboard Perforator
	L31723		00-L31723 Page Printer Model 28 Receive only w/Table top Console OPM w/tachometer
	L31724		00-L31724 Page Printer Model 28 Receive only LP6WD/AR169 Typer LB4/180 Base, LMU4 Motor, 152756 Gear Set LESU7/152 Service Assy, LAC 203AA 149 Cabinet.
	L31726		00-L31726 Page Printer Model 28 Sending & Receiving Skin tight Cover LP6WD/AW213 LMV10 Motor with Tachometer
	L31728		00-L31728 Teletype Model 28 Automatic S/R
	L31729		00-L31720 Teletype Model 28 Automatic S/R (MOD for Ships use)
	L31730		00-L31730 Teletype ASR Model 28 Automatic S/R (MOD for Ship & Duplex Use)
	L31731		00-L31731 Teletype ASR Model 28 Automatic S/R (MOD for Ship & Duplex Use)
	L31732		00-L31732 Page Printer Set T/T Model 28 S/R Skin tight Cover not Mod for RAN Use.
	L31733		00-L31733 Page Printer Set (MOD for RAN Use) Model 28 S/R Skin tight Cover with fixed gear
	L31740		00-L31740 Perforator Teletype
	L31764		00-L31764 Plug
	L31765		00-L31765 Plug
	L31769		00-L31769 TT Model 28 A.S.R.
	L31802		00-L31802 Page Printer MOD 28 ASR

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	L17020	5815	00-L17020 Cover for LESU Unit Model 28 Repairforator
	L31745		00-L31745 Pin
	1176	5305	00-285-5569 Screw 6-40 x 3/16 FIL
	1179		00-285-5570 Screw 6-40 x 5/8 FIL
	1181		00-370-0036 Screw Trip rod stop
	1187		00-286-8967 Screw 10-32 x 1/4
	1196		00-207-4224 Screw
	1206		00-285-5571 Screw 4-40 x 9/16 FIL
	1210		00-208-9997 Screw TT
	1224		00-448-3636 Screw Special 6-40 x 1/2
	1226		00-285-5572 Screw 6-40 x 3/8 FIL
	1245		00-285-5573 Screw 10-32 x FIL
	1248		00-285-5576 Screw
	1264		00-448-3642 Screw 10-32 x 1/2
	1269		00-285-5574 Screw 6-49 x 1/2
	1293		00-285-5575 Screw 4.40 x 3/8 FIL
	4871		00-448-3697 Screw
	5740		00-286-3646 Screw
	6035		00-298-2468 "
	6344		00-286-3866 "
	6745		00-285-5577 "
	6746		00-285-5578 "
	6807		00-297-3117 "
	6810		00-285-5580 "
	6942		00-286-4000 "
	8472		00-448-4071 Wedge
	8539		00-286-4871 Screw
	42827		00-298-2485 "
	55318		00-448-1516 "

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-713-8534	Washer Flat
		00-705-0368	Post
		00-705-0367	Lever
		00-705-0366	Link
		00-705-0365	Blade Function
		00-705-0364	" "
		00-TT159520	Post
		00-729-6532	Bushing
		00-705-0362	Ball
		00-705-0361	Bracket
		00-705-0360	Link
		00-701-7448	Bar Push
		00-701-7447	" "
		00-701-7446	" "
		00-701-6896	" "
		00-701-7445	" "
		00-701-6895	" "
		00-701-6894	" "
		00-701-6893	Plate
		00-701-6905	Gear
		00-701-6898	Arm
		00-701-6889	Post
		00-705-6012	Plug
		00-TT159542	Connector
		00-652-2527	Release
		00-652-2528	Spring
		00-767-3308	Bar Assembly
		00-TT159592	Cable
		00-886-4537	Shaft Assembly

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-701-7442	Skim
		00-771-9507	Mounting
		00-701-7340	Clamp
		00-713-8542	Bracket
		00-701-7360	Link
		00-TT159641	Cably Assy
		00-705-6033	Blade Signal
		00-701-7989	Latch
		00-706-0648	Plate Assy
		00-706-0647	Shaft
		00-TT159703	Keytop 'G'
		00-771-9509	Button
		00-706-0646	Spacer
		00-701-7361	Spring
		00-701-7389	Spring Slide
		00-701-7994	Frame
		00-706-0640	Pinion
		00-706-0639	Gear Hel.
		00-706-0638	Collar
		00-706-0637	Arm
		00-784-0808	Pin
		00-706-0636	Plate
		00-652-2529	"
		00-652-2530	Shaft
		00-652-2531	Bell Crank
		00-652-2532	Pawl
		00-701-7995	Latch
		00-652-2533	Plate
		00-652-2534	Gear Spur

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-2446	Screw
		00-652-2536	Eccentric
		00-706-0632	Holder
		00-784-0317	Gauge
		00-TT159928	Cable Assembly
		00-858-2877	Bracket
		00-886-4538	Clamp
		00-771-9510	"
		00-771-9511	Window
		00-TT159945	Waaher
		00-TT159953	Plate
		00-652-2537	Link
		00-652-2447	"
		00-713-8548	Post
		00-713-8549	Link
		00-652-2444	Latch
		00-652-2445	Latch Extension
		00-706-0631	Eccentric
		00-652-2448	Arm
		00-652-2449	Ring
		00-795-9440	Hub
		00-652-2450	Arm Assy
		00-705-5761	Bracket Assy
		00-652-2451	Cam
		00-652-2452	Bail
		00-713-8551	Armature
		00-711-3027	Shaft

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-2453	Arm Non Repeat
		00-705-5771	Post
		00-705-5770	Spacer
		00-705-5769	Guide
		00-705-5768	Brake (Bracket)
		00-TT159993	Bracket
		00-705-5767	Plate
		00-705-5766	Arm Assy
		00-691-3453	Screw
		00-056-7160	Armature
		00-774-6396	Plate Assy
		00-729-6062	Window
		00-TT160343	Shaft
		00-TT160347	Post
		00-705-5762	Cam
		00-TT160370	Switch Push
		00-705-5809	Contact Arm
		00-705-5808	Contact Assy
		00-737-0791	Contact Assy
		00-705-5805	Bail
		00-TT160426	Relay Motor Control
		00-705-5803	Spring
		00-729-6061	Window
		00-737-8074	Pusher Tape
		00-705-5802	Shaft
		00-705-5801	Post Guide
		00-705-5800	Post
		00-705-5799	Bail
		00-705-5798	Bail
		00-705-5797	Arm Rear Slide

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-705-5796	Arm Front Slide
		00-705-5795	Arm
		00-705-5794	Arm
		00-737-0719	Wick Leaper
		00-705-5793	Stiffener Oil Wick
		00-701-6333	Bracket Lever
		00-705-6036	Spring Contact
		00-705-3926	Bail
		00-737-0721	Tap Out Switch Assy
		00-659-8295	Spring
		00-767-5159	Plate
		00-784-4238	Stiffener
		00-767-5160	Reservior
		00-784-7810	Guard
		00-795-9445	Arm
		00-659-8296	Post
		00-779-9578	Arm
		00-659-8297	Arm
		00-659-8298	Bail
		00-767-5161	Bracket
		00-659-8300	Arm
		00-767-5163	Plate
		00-767-5164	Bracket
		00-779-9579	Guide
		00-779-9581	Guide
		00-779-9582	Clip with Wick
		00-767-5165	Insulator
		00-659-8301	Contact
		00-767-5167	Bracket

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-659-8302	Contact
		00-659-8303	"
		00-767-5170	Bracket
		00-784-0188	Contact Assy
		00-779-9583	Pin Servicing
		00-TT160645	Plate Tape Guide
		00-TT160646	Pin with Sleeve Tape Out
		00-TT160649	Washer Flat
		00-737-0725	Pin
		00-705-1314	Guard
		00-TT160667	Bumper
		00-TT160670	Bracket
		00-705-1313	Shaft
		00-705-1293	Spacer
		00-705-1290	Bushing
		00-705-1295	Housing
		00-777-9549	Arm Stop
		00-859-1784	Pad
		00-TT161104	Pinion
		00-712-5457	Post
		00-TT161113	Washer Felt
		00-737-0726	Wick Oil
		00-TT161215	Lamp Glow 115V
		00-705-6038	Connector
		00-779-8076	Gear Set
		00-779-8074	" "
		00-TT161307	Post
		00-705-1298	Housing
		00-712-6219	Washer Felt
		00-893-1185	Bail Latch Stripper

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	161326	5815	00-891-1186	Bail Pusher
	161328		00-807-1823	Shaft Stripper Bail Pivot
	161342		00-705-6039	Lever
	161346		00-712-6220	Washer Felt
	161430		00-856-5311	Hand Wheel
	161431		00-705-5997	Lever
	161439		00-TT161439	Wick
	161440		00-797-2548	Spring Tape Lid
	161443		00-705-5008	Detent
	161444		00-705-5016	"
	161447		00-TT161447	Pinion
	161504		00-TT161504	Plate
	161505		00-603-3214	Stud
	161511		00-712-9469	Retainer
	161524		00-712-6245	Shaft Hammer
	161575		00-874-0785	Armature
	161576		00-887-9242	Stator
	161578		00-767-3320	Suppressor Electrical
	161579		00-767-3321	Capacitor
	161580		00-767-3323	Resistor
	161593		00-TT161593	Cable Assy
	161654		00-TT164654	Gear Set 368 H P W
	161656		00-TT161656	" " " "
	161770		00-712-9470	Bracket
	161772		00-712-9471	Bracket
	161773		00-712-9472	Block
	161777		00-712-9449	Stud
	161778		00-712-9450	Stud

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	161779	5815	00-712-9473	Shaft with Bearing
	154680		00-TT154680	Bearing Roller
	154684		00-679-8629	Insulator
	154685		00-679-8630	Fan
	154688		00-679-8631	Spring
	154693		00-895-3620	Bracket
	154694		00-652-1589	Disc with Post
	154698		00-678-0717	Wick Felt
	154945		00-TT154945	Print for AW Stunt Box arrangement
	155023		00-606-5351	Switch
	155041		00-701-5015	Plate
	155042		00-524-3409	Bracket
	155044		00-566-8830	Spacer
	155045		00-TT155045	Switch
	155055		00-TT155055	Bail
	155060		00-679-8638	Slide
	155061		00-679-8639	Blade
	155067		00-TT155067	Cable
	155081		00-524-3416	Post Spring
	155091		00-TT155091	Lever
	155096		00-606-5372	Plate
	155099		00-652-1591	Screw
	155129		00-652-1592	Bar
	155494		00-659-3079	Spring
	155497		00-TT155497	Type Box Assembly
	155549		00-TT155549	Shield
	155602		00-895-3621	Gear Spur
	155603		00-895-3622	Gear Spur
	155611		00-325-1862	Ring Bearing
	155612		00-TT-155612	Ring Bearing

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-895-3623	Gear
		00-TT155724	Strip Insulating
		00-TT155751	Sleeve
		00-TT155755	Sleeve
		00-652-1594	Latch
		00-652-1595	Lever
		00-652-1596	Ratchett
		00-652-1597	Drum
		00-TT155995	Screw
		00-652-2474	Pin Punch
		00-652-2472	Wheel
		00-677-7800	Post
		00-784-0316	Gauge
		00-677-7801	Spring
		00-652-1564	Screw
		00-677-7803	Bracket
		00-652-1566	Link Drag
		00-677-7805	Shaft
		00-TT156019	Washer Felt
		00-652-1552	Washer Felt Slide
		00-677-7807	Plate
		00-705-3976	Plate
		00-652-2457	Guide (Chute Tape)
		00-677-7767	Stud
		00-677-7768	Spacer
		00-677-7769	Bushing
		00-652-2458	Shaft
		00-677-7771	Block (Guide)
		00-652-2459	Spring Ten
		00-652-2460	Bushing

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-2461	Shoe
		00-652-2462	Lever
		00-677-7775	Wheel Die
		00-776-7018	Link
		00-677-7778	Shaft Eccentric
		00-652-1554	Arm
		00-677-7779	Post
		00-677-7780	Guide
		00-677-7036	Plate
		00-652-1555	Bail Assembly
		00-652-1556	Plate
		00-677-4362	Slide
		00-652-1558	Link
		00-677-4364	Bushing
		00-712-9451	Link
		00-677-5233	Plate
		00-652-1559	Strip Felt
		00-652-1560	Rail
		00-652-2463	Bracket
		00-652-2464	Guide
		00-652-2465	Spring
		00-652-2466	Contact
		00-652-1561	Washer Felt
		00-799-3577	Tool
		00-652-1562	Stud
		00-677-7743	Bracket
		00-677-7744	"
		00-677-8796	Lock
		00-677-8797	Hub
		00-677-8798	Post
		00-677-8800	Link

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>NEW IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	156242	5815	00-677-8801	Link
	156243		00-677-8802	Roller
	156248		00-652-2467	Latch
	156250		00-705-3982	Cam
	156252		00-677-8805	Filter Assy
	156257		00-710-4084	Bracket
	156264		00-777-6887	Lever
	156265		00-677-8807	Bushing
	156266		00-651-6326	Bushing
	156267		00-652-2468	Lever
	156268		00-651-6336	Bracket
	156276		00-651-6345	Eccentric
	156277		00-651-6369	"
	156278		00-651-6403	"
	156286		00-051-6836	Shaft ASM
	156287		00-713-3906	Shaft Assembly
	156288		00-651-7125	Shaft
	156289		00-651-7126	Bearing
	156290		00-651-7127	"
	156291		00-651-7130	"
	156292		00-651-7131	Housing
	156293		00-651-7132	"
	156294		00-651-7133	Sector
	156296		00-713-3910	Post
	156300		00-651-7134	"
	156306		00-651-7139	Rod
	156307		00-651-7140	Detent
	156308		00-651-7141	"
	156311		00-677-8766	Rod
	156313		00-677-8767	Rack Assembly

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>NEW IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	156316	5815	00-677-8768	Plate
	156318		00-677-8769	Cam Reset
	156321		00-677-8770	Shaft
	156322		00-677-8771	Link
	156332		00-677-8772	Shaft
	156334		00-771-9480	Stud
	156336		00-771-9481	Post
	156337		00-771-9482	Washer
	156338		00-651-6120	Post
	156339		00-771-9438	Bushing
	156343		00-651-6319	Hub
	156344		00-651-6321	Bracket
	156366		00-651-6314	Shaft
	156368		00-705-5984	Ball Assy
	156369		00-677-8775	Lever
	156378		00-677-8776	Plate
	156382		00-651-7224	Roller
	156387		00-651-7215	Lever
	156388		00-651-7194	"
	156389		00-651-7185	Gear Spur
	156396		00-651-7183	Eccentric
	156398		00-677-4333	Holder
	156400		00-677-4332	Sprocket
	156403		00-712-3145	Disc
	156408		00-677-4331	Clamp
	156412		00-652-2469	Link
	156413		00-677-4329	"
	156414		00-705-3930	Plate
	156419		00-677-4328	Shaft
	156421		00-677-4327	"
	156427		00-677-4326	Disc

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	CATALOGUE NO.
0623	5330	00-677-3161	Washer
	5815	00-677-4324	Pawl
		00-677-4323	Arm Assy
		00-677-4322	" "
		00-677-4321	Lever
		00-677-4320	Pawl
		00-325-1892	Bracket
		00-677-4334	Bushing
		00-677-4348	Lever
		00-677-4347	"
		00-677-4346	"
		00-677-4344	Bail
		00-677-4339	Rack
		00-652-2470	Ring Retainer
		00-677-4337	Spring
		00-677-4336	Shaft
		00-677-4335	Bar
		00-632-4129	Guard
		00-632-4085	Hammer
		00-632-4128	Hammer Accelerator
		00-632-4136	Shaft
		00-632-4135	Bracket
		00-632-4132	Post
		00-632-4152	Bushing
		00-632-4148	Post
		00-632-4151	Guide
		00-659-3080	Screw
		00-767-3354	Strip
		00-780-2632	Post
		00-659-3081	Bail

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-767-9273	Plate
		00-632-4073	Latch
		00-779-9549	Post
		00-659-3082	Arm
		00-659-3084	Pawl
		00-767-0759	Stud
		00-659-3085	Bail
		00-767-0766	Bracket
		00-659-3086	Screw
		00-659-3087	Bail
		00-779-9550	Armature
		00-701-5471	Lid
		00-701-5469	Guide
		00-701-5466	Post
		00-659-3089	Post Ecc.
		00-701-3463	Plunger
		00-779-9532	Bracket
		00-767-0771	Plate
		00-701-5076	Post
		00-659-3090	Bail Assembly
		00-701-5493	Post
		00-659-3091	Screw
		00-701-5494	Roller
		00-659-3092	Bail
		00-767-2286	Stud
		00-713-9983	Clamp
		00-784-9426	Post
		00-767-2287	Latch
		00-659-3093	Lever
		00-659-3067	"
		00-659-3096	Bail

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-767-2289	Plate
		00-784-4197	Post
		00-767-2290	Plate
		00-767-2291	Plate
		00-767-2292	"
		00-767-2293	"
		00-784-4198	Post
		00-767-2298	Guide
		00-767-2299	Post
		00-779-9533	Post
		00-767-5635	Bracket
		00-659-3097	Gear 88T
		00-659-3098	Gear 18T
		00-677-9554	Washer
		00-767-5636	Washer Felt
		00-621-2152	Screw
		00-659-8290	Wheel Freed
		00-659-3102	Bail
		00-767-5642	Guide
		00-779-9534	Post
		00-779-9535	Post
		00-767-5643	Finger Sensing
		00-652-1569	Gear (Link)
		00-659-3103	Lever
		00-767-5660	Plate
		00-816-7499	Gear Set
		00-767-5661	Plate
		00-659-8289	Screw
		00-659-3104	Bail Assy
		00-790-3718	Gauge
		00-TT156769	Plate Name
		00-780-5536	Plate

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-TT156778	Rod
		00-767-5667	Hunger
		00-767-5668	Bracket
		00-632-4096	Retainer Pinion
		00-677-7015	Post
		00-677-7016	Disc
		00-677-7017	Disc
		00-677-7018	Guide
		00-TT156817	Shaft
		00-780-2633	Clamp
		00-767-5122	Plate
		00-767-5123	Drum Assembly
		00-778-3806	Ring Retaining
		00-767-5125	Shaft
		00-659-3110	Gear Hel.
		00-677-7019	Bail
		00-677-7020	Sprocket
		00-701-5496	Belt Timing
		00-677-7021	Guide
		00-712-6284	Lever
		00-677-7022	Bail
		00-677-7023	Blade
		00-677-7024	Bushing
		00-TT156880	Strap
		00-TT156881	"
		00-077-7026	Roller
		00-777-1477	Post
		00-677-7027	Block
		00-677-7028	Post
		00-677-5249	Post

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-705-5989	Guide
		00-677-5236	Arm Assy
		00-677-5239	Plate
		00-677-5244	Roller
		00-677-5923	Bracket
		00-778-3806	Ring Retaining
		00-677-5252	Link
		00-677-5255	Cam
		00-677-6213	Wick
	5995	00-677-8846	Cable Assembly
	5815	00-671-9231	Gear Helical 44T
		00-671-9230	Gear Helical 9T
		00-736-8567	Roller
	5310	00-677-2739	Nut
	5815	00-677-5257	Post
		00-TT157070	Switch
		00-677-0095	Retainer
		00-701-6265	Mount Vibration
		00-713-1125	Shield
		00-567-2213	Spring
		00-651-6121	Bracket
		00-566-8459	Shaft
		00-651-6126	Bar
		00-370-0462	Bail
		00-651-6131	Guide
		00-TT157323	Key Lever 'G' Blank
		00-TT157325	Key Lever
		00-545-2804	Type Pallet 'A'
		00-545-2805	" " 'B'
		00-545-2806	" " 'C'
		00-545-2807	" " 'D'

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	5815	00-545-2808	Type Pallet 'E'
		00-545-2809	" " 'F'
		00-545-2810	" " 'G'
		00-545-2811	" " 'H'
		00-545-2812	" " 'I'
		00-545-2813	" " 'J'
		00-545-2814	" " 'K'
		00-545-2815	" " 'L'
		00-545-2816	" " 'M'
		00-545-2817	" " 'N'
		00-545-2818	" " 'O'
		00-545-2819	" " 'P'
		00-545-2820	" " 'Q'
		00-545-2821	" " 'R'
		00-545-2822	" " 'S'
		00-545-2823	" " 'T'
		00-545-2824	" " 'U'
		00-545-2825	" " 'V'
		00-545-2826	" " 'W'
		00-545-2827	" " 'X'
		00-545-2828	" " 'Y'
		00-545-2829	" " 'Z'
		00-545-2830	" " 1
		00-545-2831	" " 2
		00-545-2832	" " 3
		00-545-2833	" " 4
		00-545-2834	" " 5
		00-545-2835	" " 6

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NUMBER</u>	<u>DESCRIPTION</u>
0623	5815	00-545-2836	Type Pallet 7
		00-545-2837	" " 8
		00-545-2838	" " 9
		00-545-2839	" " 0
		00-545-2840	Type Pallet
		00-545-2841	" "
		00-545-2842	" "
		00-679-2718	" "
		00-545-2844	" "
		00-545-2845	" "
		00-545-2846	" "
		00-545-2847	" "
		00-545-2848	" "
		00-545-2849	" "
		00-545-2850	" "
		00-545-2851	" "
		00-545-2852	" "
		00-575-4468	" " (T)
		00-545-2855	" "
		00-545-2865	" "
	5810	00-545-2871	" "
	5815	00-TT157726	" "
		00-677-0094	Block
		00-677-0093	Arm
		00-677-0425	Spring
		00-691-1003	Plate Assembly
		00-652-1572	Bell, Crank
		00-712-3164	Extension
		00-652-1573	Link
		00-775-7273	Hub with Pin

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-651-7149	Bracket
		00-651-7155	Base
		00-652-1575	Gear Hel
		00-651-6183	Bar Back
		00-652-2435	Shaft
		00-652-2436	"
		00-651-6226	Baffle
		00-651-7161	Coupling
		00-651-7170	Bracket
		00-795-9419	"
		00-652-2437	Bail Feed
		00-652-2438	Bail
		00-652-2439	Lever
		00-652-2440	"
		00-652-2441	"
		00-652-2442	"
		00-767-3358	Bushing
		00-TT158046	Bracket
		00-675-6409	Scale
		00-652-1538	Switch Assembly
		00-675-6403	Pulley
		00-675-6410	Cam
		00-675-6411	Clamp
		00-652-2443	Cord Assembly
		00-701-6930	Cord
		00-652-1539	Spring
		00-652-1540	Pin
		00-652-1541	Stop
		00-701-0433	Bracket

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-1542	Switch
		00-446-3472	Bracket
		00-795-9420	Plate
		00-701-0434	Bracket
		00-652-1543	Shaft
		00-652-1544	Shaft Assy
		00-652-1545	Gear Hel
		00-675-6405	Shaft
		00-652-1549	Bar Code
		00-652-2538	" "
		00-652-2539	" "
		00-652-2540	" "
		00-652-2541	" "
		00-701-0517	Spacer
		00-701-0516	Bar
		00-652-2542	Lever Assy
		00-652-2543	Latch
		00-652-2544	Bar Assy
		00-652-2545	" "
		00-701-0511	Frame
		00-652-2546	Cam
		00-701-0508	Bushing
		00-652-2547	Lever
		00-652-2548	Follower
		00-701-1645	Guide
		00-701-1644	Bracket
		00-701-1643	"
		00-701-0521	Roller
		00-701-0520	Bracket

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623	5815	00-652-2549	Link
		00-652-2550	Latch
		00-652-2551	Bar Extension
		00-675-4411	Bell Crank
		00-675-4413	Lever
		00-652-2552	Slide
		00-652-2553	Extension
		00-675-4470	Bushing
		00-675-4471	Bracket
		00-675-4474	Shaft
		00-675-4475	Arm Assy
		00-TT158152	Sleeve
		00-TT158153	Link
		00-TT158154	Lever
		00-875-0170	Bearing
		00-675-4479	Lever W/Stud
		00-652-2554	Roller W/Bushing
		00-670-4496	Bracket
		00-670-4497	"
		00-652-2555	Switch
		00-675-6388	Lever
		00-652-2556	Shaft
		00-652-2557	Lever
		00-767-3329	Drum
		00-TT158202	Housing
		00-TT158205	Cover
		00-652-1642	Gear
		00-652-2558	Shaft Assy
		00-588-6652	Bracket
		00-588-6657	Contact

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	158219	5815	00-652-2559	Switch
	158226		00-701-3913	Bracket
	158228		00-701-3915	Lever
	158230		00-701-3917	Bracket
	158239		00-701-0487	Lever
	158241		00-701-0493	Panel
	158251		00-738-4527	Plate Mounting
	158259		00-652-2521	Connector
	158260		00-733-4578	Eccentric
	158264		00-TT158264	Cable
	158268		00-701-0496	Latch
	158271		00-701-0497	Guard
	158275		00-701-0498	Plate
	158289		00-677-9665	Filler
	158291		00-775-6498	Cover
	158299		00-677-9666	Cover
	158335		00-712-3169	Stud
	158352		00-652-1639	Bail
	158353		00-652-2522	Bail
	158354		00-652-2523	Arm
	158502		00-701-6878	Plate Control
	158505		00-TT158505	Stud Connector MTG
	158506		00-701-6879	Lever Detent
	158514		00-701-6881	Plate Spring
	158515		00-701-6882	Bracket Detent
	158516		00-701-1728	Rod Plunger Guide
	158517		00-677-9667	Spring Detent Covers
	158526		00-701-6884	Lever Feed
	158529		00-677-9668	Bushing Guide
	158531		00-701-6885	Shaft

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	158533	5815	00-677-9569	Bushing Eccentric
	158534		00-TT158534	Post Guide
	158535		00-701-6886	Post
	158536		00-701-6887	Plate Centre
	158539		00-701-6888	Post Feed Wheel Bearing
	158540		00-675-3304	Post Intermediate Plate Tie
	158542		00-677-9670	Spring
	158554		00-675-3307	Post
	158555		00-677-9672	Gear Driving
	158556		00-677-9673	Bushing Locating
	158561		00-677-9675	Bracket
	158562		00-675-3347	Rail Left Side
	158563		00-707-2213	Rail Right Side
	158566		00-677-9674	Bushing
	158566		00-675-3440	Bracket Switch
	158570		00-863-0692	Shaft
	158571		00-701-0444	Pinion (2 DT)
	158576		00-706-0653	Bushing
	158583		00-706-0651	Clip Spring
	158585		00-706-0650	Post Tap Out Pin Stop
	158587		00-701-7972	Plate
	158588		00-706-4191	Post
	158589		00-TT158589	Clamp Cable
	158596		00-701-7974	Sleeve Distributor Cam (7.00 Unit Code)
	158622		00-819-0919	Deflector
	158625		00-701-7975	Bracket
	158626		00-701-7976	Bracket

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER			
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	159078	5815	00-701-6919	Screw Storing Switch Cont.
	159094		00-701-7365	Plate Terminal
	159095		00-701-7366	Spring
	159097		00-893-1137	Screw Storing Switch Cont.
	159114		00-TT159114	Tool Kit for Taps
	118380	6210	00-264-7024	Light
	118384		00-243-0056	Lens
	118589	5930	00-581-7980	Switch
	118591	5935	00-224-0982	Socket
	119465	5930	00-575-2839	Switch
	119467	5970	00-504-8986	Plate
	119648	5340	00-205-4731	Ring
	119649		00-282-5322	"
	119650		00-392-1819	"
	119652		00-282-1633	"
	120175	9905	00-392-1822	Plate
	120195	6130	00-TT120195	Rectifier
	121242	5340	00-679-8314	Clamp
	121246		00-598-0138	"
	121245		00-860-1778	"
	121607	3110	00-392-1853	Tape Contact
	122201		00-144-8990	Bearing
	122233	5910	00-568-2278	Capacitor
	122245		00-184-3773	"
	122253	6150	00-260-5638	End Assembly
	122297	6150	00-376-9833	Motor Governed 1/25 HP
	122741	5330	00-332-4482	Washer Felt
	122745		00-530-0640	" "

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER			
	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	122747	5330	00-202-3681	Washer
	123327	5930	00-392-1873	Contact Assembly
	123319	5970	00-392-1874	Insulator
	123322		00-392-1877	Insulator
	123324	5930	00-392-1878	Switch Assembly
	123327		00-392-1880	Selector and Throw Switch Assembly
	123330	5970	00-392-1882	Bushing
	123337	5340	00-392-1888	Spring
	123346	6105	00-392-1896	Armature
	123356	3110	00-392-1904	Race
	123357		00-392-1905	Roller
	123363	5950	00-392-1910	Clutch Magnet Assembly
	123365	5815	00-392-1912	Yoke
	123366	6105	00-392-1913	Armature
	123372		00-392-1919	Motor
	123375	5935	00-392-1922	Connector
	123376		00-392-1923	"
	123395	5340	00-392-1940	Spring
	123396	5930	00-392-1941	Button
	123398	5910	00-392-1942	Capacitor
	123399	5930	00-392-1943	Lever Switch
	123400		00-392-1944	Switch
	123401		00-392-1945	"
	123402	5945	00-392-1946	Relay
	123403	5935	00-227-7755	Socket
	123405	5315	00-392-1949	Pin
	123416	6240	00-392-1957	Lamp Incandescent
	123431	9905	00-392-1971	Tag
	123437	5815	00-392-1974	Plate
	123438	6145	00-392-1975	Wire

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	123440	9905	00-392-1977	Plate
	123443	5340	00-392-1980	Spring
	123446	5975	00-392-1983	Clamp
	123455	9905	00-392-1989	Plate
	123458	6130	00-392-1992	Selenium Stack Assembly
	123481	5975	00-392-2006	Clamp
	123483	5935	00-377-8031	Receptacle Relay
	123486	5995	00-392-2008	Cable Assembly
	123487		00-392-2009	" "
	123488		00-392-2010	" "
	123958	5975	00-392-2016	Clamp
	124204	5995	00-392-2017	Cable
	124205		00-392-2018	"
	124206		00-392-2019	"
	124425	5935	00-525-2774	Connector
	124738	5975	00-560-3226	Clamp
	124851	5960	00-392-2033	Retainer
	124860	5940	00-392-2035	Terminal Spring
	124999	5930	00-646-5213	Switch
	125012	6250	00-649-5214	Socket
	125280	5315	00-129-1924	Pin
	125297		00-129-1927	Pin
	125683	3120	00-392-2293	Eccentric Bushing
	125703	5940	00-665-6106	Terminal
	125903	5977	00-612-5751	Brush Transmitting
	128617	5945	00-259-4299	Modification Kit
	129919	5920	00-296-3474	Fuse Cartridges 4 Amp
	130330	5330	00-611-4885	Washer Felt
	130696		00-729-6528	" "

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	131179	6210	00-525-0826	Lens
	131228	5330	00-565-7995	Insulator
	139555	5340	00-647-3717	Spring
	150667	5307	00-370-0385	Stud Transfer Slide
	150923	5330	00-370-0668	Washer Felt
	150949	9905	00-392-1151	Plate Name
	150979	5910	00-TT150979	Capacitor
	151016	3110	00-159-9530	Bearing
	151201	9390	00-694-1679	Oiler
	151222	5330	00-370-0132	Washer Felt
	151245		00-370-0153	Washer Felt
	151336	4930	00-712-5805	Oiler
	151397	5340	00-312-8970	Spring Extension
	151414	5930	00-258-5287	Switch Sensitive
	151418	5920	00-TT151418	Fuse 10 Amp
	151540	6250	00-299-5749	Socket Lamp
	151562	6240	00-155-8014	Lamp Incandescent
	151569	5307	00-370-0701	Strap
	151626	5940	00-302-6367	Terminal
	151633	3110	00-155-8418	Bearing
	151806	5935	00-693-1113	Connector
	151808	5945	00-237-1139	Relay
	151815	5935	00-525-0846	Connector
	151982	6240	00-797-4370	Lamp
	152109	5915	00-091-9508	Suppressor
	152129	5340	00-370-2009	Spring
	152257		00-309-0809	"
	152996	5915	00-643-5934	Suppressor Assy
	153031	5975	00-644-2893	Bushing

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	153157	5905	00-606-5332 Resistor 400 OHMS
	153337	5330	00-171-6332 Bushing Nylon
	153340	5340	00-302-6719 Spring Torsion
	153341	5340	00-302-6445 " "
	153400	6240	00-300-9755 Lamp Incandescent 60V
	153455	5905	00-TT153455 Resistor
	153481		00-TT153481 "
	153492	5935	00-644-6582 Connector
	153644	1210	00-524-3414 Stud
	153645		00-524-3421 Plate
	154015	5307	00-706-4207 Post
	154016	5315	00-706-4206 Shaft
	154030	5835	00-710-3771 "
	154041	5307	00-706-4143 Post
	154042	5940	00-705-0932 Nut (Terminal)
	154043	5940	00-676-3735 Lug Terminal
	154046	5307	00-706-6884 Stud
	154047	5307	00-706-4144 Post
	154079	5307	00-691-4090 Stud
	154105		00-710-3772 Post
	154189	5970	00-691-2733 Insulator (Strip)
	154194	5970	00-705-9867 Base
	154406	5940	00-665-4765 Board Assembly
	154412	5307	00-701-7796 Stud
	154655	5915	00-606-5336 Suppressor
	154661	5960	00-983-8680 Rectifier
	155047	3010	00-524-3428 Disc
	155083	6210	00-594-6331 Lens Indicator Light
	155551	5340	00-707-0213 Ring Retaining
	155585	3110	00-841-1896 Bearing S/S 155606
	155605		00-841-1895 Bearing Ball

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	155725	5821	00-701-5021 Plate Terminal (Centre Con)
	156044	5307	00-677-4893 Stud
	156050	5307	00-677-3770 Stud Eccentric
	156093	5330	00-729-6529 Washer Felt
	156165		00-729-6536 " "
	156172	5315	00-705-2406 Rod
	156230	5307	00-701-0290 Stud
	156397		00-677-4897 Post
	156428	5330	00-677-3161 Washer
	156519		00-767-0757 Washer Felt
	156539		00-767-0767 " "
	156561	5315	00-701-1726 Shaft
	156572	5340	00-701-2567 Washer
	156576	5330	00-729-6538 Washer Felt
	156591		00-729-4628 Washer
	156633		00-729-4422 Washer Felt
	156663	5970	00-691-2343 Insulator
	156861	5340	00-706-8771 Retainer
	156877	5330	00-729-6527 Washer Felt
	156972	5995	00-677-8846 Cable Assembly
	156990	3110	00-739-2805 Race
	156994	9390	00-677-6214 Strip Felt
	156998	5960	00-736-8568 Retainer
	157200	5340	00-967-7759 Spring
	157238	5340	00-545-2785 Spring
	157678	5810	00-545-2871 Type Pallet
	157991	5307	00-677-4900 Stud
	158045		00-677-0360 "

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	158064	5340	00-706-6898	Clip
	158094	5307	00-677-0345	Stud
	158123	5315	00-706-1727	Shaft
	158189	5330	00-652-1641	Washer
	158200	5307	00-754-4280	Stud
	158201		00-754-3105	"
	158250	5940	00-822-7572	Block Term
	158252	5970	00-829-5947	Insulator
	158286	5950	00-654-7306	Transformer
	158522	5315	00-709-7605	Pin Assy Sensing
	158527		00-706-1729	Rod Spring
	158581	4730	00-710-3430	Bushing
	158588	5307	00-706-4191	Post
	158601	5935	00-706-6250	Connector Plug
	158602		00-700-3306	" Receptacle
	158619		00-706-6251	" Plug
	158620		00-700-3308	" Receptacle
	158696	5355	00-652-1640	Knob Assy
	158768	5940	00-700-3373	Terminal Contact
	158770	5940	00-709-0048	Terminal Spring Holder
	158778	5315	00-706-1732	Post Spring
	158789	5340	00-706-8776	Plug Idler Gear Oil Retain
	158868	5307	00-706-4192	Post Slide Stop
	159233		00-701-3053	Stud
	159269	5920	00-739-9776	Fuse 750 M.A.
	159327	5330	00-677-9535	Washer
	159334		00-677-0361	"
	159341	3110	00-679-8920	Bearing

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	159429	9390	00-701-4393	Wick Felt
	159503	5315	00-714-0637	Shaft
	159480	4730	00-713-9351	Bushing
	159519	5307	00-701-9685	Stud
	159548	9390	00-701-7295	Wick Felt
	159611	6350	00-892-1695	Bell Assembly
	160371	6240	00-TT160371	Light Pilot
	160556	5307	00-710-3775	Stud
	160593	5940	00-700-3381	Terminal
	160672	5307	00-691-3456	Stud
	161136	5920	00-700-2942	Fuse Cartridge 6 1/2 Amp
	161239	5935	00-807-5357	Connector
	161330	3020	00-289-9748	Gear
	161331		00-332-1521	"
	161347	5330	00-618-9837	Washer Felt
	161493	5307	00-710-3776	Post
	161594	5935	00-804-9203	Connector (Plug 161595 mates with
	161954	6210	00-030-2444	Socket
	162341	3120	00-709-1943	Bearing
	162356	6130	00-TT162356	Rectifier
	162357	5910	00-737-8106	Capacitor
	162359	5950	00-737-8107	Transformer
	162360	5920	00-199-3968	Fuse
	163327	5340	00-823-5088	Ring Retainer
	165027	5915	00-566-6728	Network Spark Suppressor
	174421		00-594-9141	Filter
	L10920	5340	00-588-3570	Adaptor
	L10921	5810	00-588-3571	Adaptor Mounting Acrow Stud
	L10922	5810	00-587-9668	Adaptor Cable Assembly

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	L10923	5810	00-587-9664	Adaptor Assembly
	L10939		00-L10939	Adaptor Keyboard
	L10940	6105	00-L10940	Motor Assembly
	L10942	5935	00-L10942	Plug
	L10943		00-L10943	Plug
	L10970	5930	00-L10970	Switch Toggle
	L10971		00-L10971	Switch 5 Position 2 Pole
	L10972		00-L10972	Switch 3 Position 1 Pole
	L10973		00-L10973	Switch 24 Position 2 Wafer
	L10974	5935	00-L10974	Plug
	L10975	5935	00-L10975	Plug in Extractor
	L10976		00-L10976	Plug
	L10977	4140	00-L10977	Bluffin Fan
	L10978	5805	00-L10978	Frequency Standard
	L10979	5935	00-L10979	Plug
	L10980	6240	00-223-9100	Lamp, Glow (NE-51)
	L10981	5805	00-L10981	Drawers Extenders
	L10984	6105	00-L10984	Motor
	L13161	5810	00-587-9667	Bushing
	L16930		00-593-9655	Cable
	L16939	2340	00-587-9669	Clamp
	L16940	5935	00-248-2375	Clamp Cable
	L16941		00-L16941	Connector Cannon
	L16942		00-L16942	" "
	L16943	5810	00-587-9672	Contact SA
	L16944		00-593-3663	" "
	L16989		00-588-3565	Cover SA
	L16990		00-588-3566	" "
	L16991		00-588-3564	" Assembly

NEW IDENTIFICATION NO.

OLD IDENTIFICATION NUMBER	NEW IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION
0623	L16992	5810	00-588-3567	Cover Plate SA
	L16993		00-588-3568	Crank SA
	L23141	7430	00-L23141	Flexwriter Fridan Model F
	L23142		00-L23142	Flexfeeds 20"
	L23143		00-L23143	Electric Tape Winders
	L23144		00-L23144	Tape Unwinders
	L23145		00-L23145	Local Stands
	L25801	5810	00-588-3569	Insulator
	L27073		00-L27073	Kits Mod for T/Sec/EL7 Machines
	L27074		00-L27074	Kits Maintenance
	L28438		00-593-9671	Line Cord SA
	L29384	6105	00-643-3641	Motors
	L29385		00-L29385	Motors Units Variable Speed
	L29386		00-L29386	Motors Units Variable Speed
	L29389	5805	00-863-9653	Multiplexer
	L29390		00-226-2918	Demultiplexer
	L29760		00-L29760	Nut Hex
	L29761		00-L29761	Nut
	L31764	5935	00-L31764	Plug
	L31765		00-L31765	Plug
	L33623		00-259-3991	Receptacle Cable
	L33624		00-L33624	" "
	L33630	6130	00-L33630	Rectifier Model 10 105-125V 50-60 Cycle
	L33631		00-L33631	Rectifier Model Rec 11
	L33667	5810	00-L33667	Ring Retaining
	L33693	5945	00-L33693	Relay
	L44150	5810	00-L44150	Screw

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623		00-589-1329	Screw
		00-589-1330	"
		00-589-1331	"
	5810	00-144154	"
	5960	00-144176	Shield
		00-144177	"
	5810	00-146759	Terminal
	5525	00-146779	Test Set Telegraphic Stroboscopic distortion
	5805	00-146788	Terminal Single Side Band Model
		00-146789	Transmitter Distributor Set Tuning Number 1 Gauge
		00-146792	Transmitter Distributor (RAAF No. FSL-0022)
	5810	00-149750	Washer Spring Back
		00-149751	Washer Lock
		00-149752	Washer
		00-149753	Washer Lock
	5935	00-110944	Plug
		00-110945	"
		00-110946	"
		00-110947	"
		00-110948	"
		00-110949	"
		00-110950	"
		00-110951	"
		00-110952	"
		00-110953	"
		00-110954	"
		00-110955	"
	5805	00-110956	Submodule

NEW IDENTIFICATION NUMBER

<u>OLD IDENTIFICATION NUMBER</u>	<u>GROUP CLASS</u>	<u>CATALOGUE NO.</u>	<u>DESCRIPTION</u>
0623		00-110957	Submodule
		00-110958	"
		00-110959	"
		00-110960	"
		00-110961	"
		00-110962	"
		00-110963	"
		00-110964	"
		00-110965	"
		00-110966	"
	6240	00-110967	Lamp
		00-110968	"
	5930	00-110969	Switch Push Button
	5815	00-L31812	Console Page Printer receive only floor mounted Console
		00-L31813	Console Page Printer S/R Table Model
		00-L31815	Page Printer Model 28 S/R
		00-L31817	Page Printer Model 28 S/R Receiver only
		00-L31818	Page Printer Model 28 S/R Skin Tight Cover
		00-L31819	Page Printer Model 28 S/R with Tachometer (Grey)
		00-L32551	Reperforator Model 28 Receive Only
		00-L33648	Reperforator Typing T/T Model 14" less Cover
		00-L33649	Reperforator Typing T/T Model 14" with Cover
		00-L33650	Reperforator Typing T/T Model 14" Sending and Receiving

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	L33651	5815	00-L33651	Reperforator Typing Transmitter Distributor T/TPRXDX with Cover
	L33682		00-L33652	Reperforator Typing Transmitter Distributor Receiving Only
	L33653		00-L33653	Reperforator Typing Transmitter Sending and Receiving LPR19 ARY
	L33467		00-L33667	Ring Retaining
	L33680		00-L33680	Reperforator T/T Mod 28 Receiver Only W.3680 pm Gear Set
	L33681		00-L33681	Reperforator Typing Unit TPR 1ARY
	L33683		00-L33683	Reperforator Typing Less LPR 19ARY
	L33689		00-L33689	Reperforator
	L33690		00-L33690	Reperforator Model 28 Receive Only
	L33694		00-L33694	Reperforator Model 28 Less Motor Bracket Assy and Covers
	L33695		00-L33695	Reperforator Model 28 Receiver Only
	L33697		00-L33697	Reperforator Model 28 Receiver Only (for F.H.Q.)
	L46766		00-L46766	Transmitter Distributor Single
	L46767		00-L46767	" " "
	L46768		00-L46768	" " "
	L46769		00-L46769	" " "
	L46770		00-L46770	" " " 3 Gang Numbering
	L46771		00-L46771	Transmitter Distributor 3 Gauge Timing/Numbering MXB.205AA Base 1 No.

NEW IDENTIFICATION NUMBER

OLD IDENTIFICATION NUMBER	GROUP CLASS	CATALOGUE NO.	DESCRIPTION	
0623	L46772	5815	00-L46772	Transmitter Distributor 3 Gang Timing/Numbering MXB.205AA Base 1 No. T/D LXD 8/9/10 (3 No.)
	L46773		00-L46773	Transmitter Distributor 5 Gang Timing/Numbering Base MXB 206AA TD LXD10 (6 No.)
	L46778		00-L46778	Type Box Arrangement Teletype Type 2D
	L46780		00-L46780	Transmitter Distributor Model 28 4040 OPI
	L46781		00-L46781	Transmitter Distributor Model 28 3680 OPI
	L46782		00-L46782	Transmitter Distributor Model 28 without Cover
	L46783		00-L46783	Tape Reader
	L46790		00-L46790	Table Teletype Model 19
	L46792		00-L46792	Transmitter Distributor (RAAF No. NS10022)
	L46794		00-L46794	Transmitter Head
	L48111		00-L48111	Unit Motor Stop for Machines Model 15.

(DSAP 519/58/257)

MEMORANDUM FOR THE RECORD

1. [Illegible]	11/15/54	[Illegible]
2. [Illegible]	11/15/54	[Illegible]
3. [Illegible]	11/15/54	[Illegible]
4. [Illegible]	11/15/54	[Illegible]
5. [Illegible]	11/15/54	[Illegible]
6. [Illegible]	11/15/54	[Illegible]
7. [Illegible]	11/15/54	[Illegible]
8. [Illegible]	11/15/54	[Illegible]
9. [Illegible]	11/15/54	[Illegible]
10. [Illegible]	11/15/54	[Illegible]
11. [Illegible]	11/15/54	[Illegible]
12. [Illegible]	11/15/54	[Illegible]
13. [Illegible]	11/15/54	[Illegible]
14. [Illegible]	11/15/54	[Illegible]
15. [Illegible]	11/15/54	[Illegible]
16. [Illegible]	11/15/54	[Illegible]
17. [Illegible]	11/15/54	[Illegible]
18. [Illegible]	11/15/54	[Illegible]
19. [Illegible]	11/15/54	[Illegible]
20. [Illegible]	11/15/54	[Illegible]



Registered

ANO's 119-127/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
14th March, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

119—Badges—Ships, Submarines, Commissioned Establishments, FAA Squadrons and Boats' Badges and Mottos

Navy Order 515 of 1966 is to be amended as follows—

Paragraph 12—

(a) Line 7—

Delete "Shipwright's Equipment Lists" and insert "Naval Store Account".

(b) Line 9—

Delete "equipment" and insert "sea stores".

(4NM 37/3/127)

(Navy Order 515 of 1966)

UNCLASSIFIED

120—Gas Detection and Exhaust Ventilation System for Support Craft

The presence of gasoline or liquid petroleum (LP) gas in support craft must always be recognised as highly dangerous. In the case of LP devices fitted in gasoline driven craft an extreme hazard exists, particularly when starting up after a prolonged shut down.

2. As a safeguard against possible accidents occurring from the presence of an explosive gas or vapour mixture gas detection units and exhaust ventilation systems are to be fitted to existing and future gasoline powered craft in which LP gas devices are fitted.

3. Gas detection and exhaust ventilation units will be issued to Naval Dockyards for fitting in existing Support Craft affected by this order.

4. Establishments operating gasoline powered craft or craft in which LP gas devices are fitted, are to raise Forms AS 2061Z as follows—

"Gas detection unit and exhaust ventilation system to be fitted in accordance with Navy Order 120 of 1966."

5. Future gasoline powered craft will, where practicable, have the gas detection and exhaust ventilation units fitted during construction.

6. An ignition switch interlock is currently being developed which will prevent the ignition circuit being made until all explosive gas/vapour mixtures have been exhausted. Until this safeguard has been issued for fitting, strict adherence to the regulations for starting engines of support craft must be observed.

7. Installation drawings and specifications including details of all equipment will be issued to Dockyards and Contractors. A drawing showing the proposed location of the detector heads is to be forwarded to Navy Office for approval before installation commences.

8. Siting of Detector Heads—

- (a) *General*—Detector heads shall be sited to suit individual installations, but care shall be taken to ensure that heads are fitted in positions where gas or petrol vapour accumulations are most likely to occur, taking account of the fact that both LP gas and petrol vapour are heavier than air. Detector heads shall be placed at the lowest points at which gas or petrol vapours can accumulate, taking care to avoid possible submergence by bilge water.
- (b) *In Engine Compartment (Petrol Engines)*—A detector head shall be fitted as low as practicable in the engine compartment bilges, or other location where petrol vapours may concentrate. Where fuel tanks are installed in a space enclosed by continuous bulkheads, a detector head shall be fitted in that space.
- (c) *Where LP Gas Appliances are Fitted Below Weather Deck*—Detector head(s) shall be fitted in the vicinity of the appliance and low down in the compartment where the appliance is fitted.
- (d) *Where LP Gas Appliances are Fitted Above Weather Deck*—Detector heads will not be required if the appliances in these areas are so sited that leakages are readily dispersed and accumulations of gas cannot occur. However, if it is apparent that any gas leaks from an appliance fitted on the weather deck may find their way into a pocket, then a gas detector head will be required to be fitted in this area.
- (e) *LP Gas Cylinder Stowage*—LP gas bottle stowages are required to be fitted in the open or in well ventilated lockers on the upper deck and no detector heads are required in this area or space.

9. Siting of Control Box

The control box shall be sited to suit individual installations, in a position such that the audible and visual alarm signals are given when dangerous conditions exist, and are readily apparent to operating personnel, e.g., in wheelhouse, galley or working area.

10. Exhaust Ventilation System

Petrol vapours and LP gases being heavier than air cannot be exhausted from bilge spaces by natural ventilation, and a mechanical exhaust ventilation system is to be fitted as follows—

- (a) In craft fitted with inboard petrol installations.
- (b) In craft fitted with LP gas system where the piping and/or appliances are situated below the weather deck or in a well.

11. The mechanical exhaust ventilation system shall be ducted to open air and fitted with flame proof gauze at the outlet and a suitable closing down arrangement. The blower and electrical components shall be intrinsically safe in accordance with the requirements of BS 1259.

12. Routine Testing Procedure

In addition to existing procedures in force, the following precautions are to be taken in boats described in Paragraph 10 above—

- (a) *Daily, before initial starting up*—
- (i) Switch on gas detector system.
 - (ii) Switch on exhaust ventilation system and run for five minutes.
 - (iii) If gas detector system shows "safe" after five minutes running, the engine may be started and LP gas units operated.

The gas detector system should remain activated until the craft is secured on completion of the day's activities.

(b) *During fuelling or defuelling operations*—

- (i) Switch on gas detector system prior to operations, it should remain activated during the entire operation.
- (ii) If the system shows a presence of gas/vapour, switch on ventilation system and continue to run until "safe".
- (iii) When the gas detector system shows "safe", switch off ventilation system and commence fuelling/defuelling operations. A close check is to be kept on the gas detector system during the operation. If the detector system shows "unsafe" at any point in the proceedings fuelling/defuelling is to cease, the cause investigated and rectified, then the ventilation system activated until the detector reads "safe" once again.

13. The routine to be followed on opening up the boat is to be displayed on a notice board located in a prominent position.

(ACDC 1236/51/34)

Section 2 PERSONNEL

UNCLASSIFIED

121—Australian Institute of Navigation

The Royal Australian Navy was elected a corporate member of the Australian Institute of Navigation in 1956. The Headquarters of the institute are located in Sydney and the RAN representative on the council of the institute is the Staff Officer (Navigation) to FOICEA.

2. Broadly, the objectives of the institute are—

- (a) to unite in one scientific society those interested in navigation;
- (b) to advance the science and practice of navigation and promote knowledge in navigation and its associated sciences.

3. Arrangements have been made for copies of institute papers pertaining to air and sea navigation to be forwarded by FOICEA to—

FOCAF.
RAN Air Station, Nowra.
HMAS WATSON.
HMAS CERBERUS.
Navy Office.

4. Approximately seven lectures per year are delivered to members of the institute and these may be attended by members of the RAN.

5. Details of forthcoming meetings will be promulgated by FOICEA.

6. RAN personnel interested in becoming members of the institute may obtain further particulars from the Secretary, Australian Institute of Navigation, Science House, 157 Gloucester Street, Sydney.

(DTWP 108/2/14)

UNCLASSIFIED

122—Reporting Methods—Members Joining and Leaving Ships and Establishments—Reporting of Movements—Other Than Ships in Far East Strategic Reserve

Navy Order 509 of 1966 is to be amended as follows—

The Title—

Delete "other than ships in Far East Strategic Reserve" and insert "other than ships in operational areas".

Paragraph 5—

Delete Paragraph 5 and insert the following in lieu—

"Sea-going ships are to report by signal on every occasion, the ship sails—

(a) names of those persons (PNF or otherwise) who have joined or left since the last Forms AS 257 were dispatched;

(b) the numbers of the last Forms AS 257 series forwarded to Head of Naval Personnel Branch and date of dispatch."

Example—Navy Order 509 of 1966 as amended—

Paragraph 5 (b)—257 No. 1467 Dispatched 23rd September, 1966.

257A No. 15262 Dispatched 22nd September, 1966.

257B No. 3645 Dispatched 21st September, 1966.

2. Signals of this nature are to be kept to a minimum and are to be classified not lower than RESTRICTED.

(HPB 464/54/535)

(Navy Order 509 of 1966)

Section 3**OPERATIONAL AND TRAINING**

UNCLASSIFIED

123—Sailors—Naval Artificer Apprentices—Training at Sea

Navy Order Issue 36-46/67 is to be amended as follows—

(a) Navy Order 40 of 1967—

Delete UNCLASSIFIED insert RESTRICTED.

(b) Front and back cover pages—

Insert RESTRICTED top and bottom.

(DMT 303/221/80)

(Navy Order 40 of 1967)

Section 4**EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

124—ABR 5053—Catalogue of Stationery, Office Devices, Etc.—Transfer of Items to Naval Stores

The following items currently listed in ABR 5053 Catalogue of Stationery are to be transferred to Naval Stores—

4020-66-012-2323	TWINE, JUTE, FINE
4020-66-011-9643	TWINE, JUTE, MEDIUM
4020-66-012-1538	TWINE, JUTE, HEAVY
6670-66-017-0922	BALANCE, LETTER
6675-66-017-4929	BRUSH, PEN CLEANING, UNO
6675-66-016-3325	HOLDER, PEN, UNO
6675-66-018-9371	PEN, LETTERING No. 52
6675-66-018-9372	PEN, LETTERING No. 53
6675-66-018-9373	PEN, LETTERING No. 54
6675-66-018-9374	PEN, LETTERING No. 56
6675-66-018-9375	PEN, LETTERING No. 57
6675-66-018-9376	PEN, LETTERING No. 58
6675-66-018-9377	PEN, LETTERING No. 510
6675-66-018-9378	PEN, LETTERING No. 512
6675-66-018-9379	PEN, LETTERING No. 516
6675-66-018-9380	PEN, LETTERING No. 520
6675-66-015-0222	PEN, LETTERING, UNO STANDARD No. 1
6675-66-015-0223	PEN, LETTERING, UNO STANDARD No. 2
6675-66-015-0224	PEN, LETTERING, UNO STANDARD No. 4
6675-66-015-0225	PEN, LETTERING, UNO STANDARD No. 5
6675-66-015-0226	PEN, LETTERING, UNO STANDARD No. 7
6675-66-015-0227	PEN, LETTERING, UNO STANDARD No. 9
6675-66-018-9381	TEMPLATE, LETTERING No. 203/2 Size $\frac{3}{8}$ -in.
6675-66-018-9382	TEMPLATE, LETTERING No. 203/3 Size $\frac{1}{8}$ -in.
6675-66-018-9383	TEMPLATE, LETTERING No. 203/5 Size $\frac{3}{16}$ -in.
6675-66-018-9384	TEMPLATE, LETTERING No. 203/7 Size $\frac{1}{4}$ -in.
6675-66-018-9385	TEMPLATE, LETTERING No. 203/8 Size $\frac{1}{8}$ -in.
6675-66-018-9386	TEMPLATE, LETTERING No. 203/10 Size $\frac{1}{8}$ -in.
6675-66-018-9387	TEMPLATE, LETTERING No. 203/12 Size $\frac{1}{16}$ -in.
6675-66-018-9388	TEMPLATE, LETTERING No. 203/14 Size $\frac{1}{4}$ -in.
6675-66-018-9389	TEMPLATE, LETTERING No. 203/20 Size $\frac{1}{2}$ -in.
6675-66-018-9390	TEMPLATE, LETTERING No. 203/25 Size 1-in.
6675-66-014-1829	TEMPLATE, LETTERING, UNO UC 2
6675-66-014-1830	TEMPLATE, LETTERING, UNO UF 2
6675-66-014-1831	TEMPLATE, LETTERING, UNO UL 2
6675-66-014-1832	TEMPLATE, LETTERING, UNO UC 4
6675-66-014-1833	TEMPLATE, LETTERING, UNO UF 4
6675-66-014-1834	TEMPLATE, LETTERING, UNO UL 4

$\frac{1}{8}$ -in. high

$\frac{1}{4}$ -in. high

6675-66-014-1835	TEMPLATE, LETTERING, UNO UC 6	} ½-in. high
6675-66-014-1836	TEMPLATE, LETTERING, UNO UF 6	
6675-66-014-1837	TEMPLATE, LETTERING, UNO UL 6	
6675-66-014-1838	TEMPLATE, LETTERING, UNO UC 8	} ½-in. high
6675-66-014-1839	TEMPLATE, LETTERING, UNO UF 8	
6675-66-014-1840	TEMPLATE, LETTERING, UNO UL 8	
6675-66-014-1841	TEMPLATE, LETTERING, UNO UC 12	} ½-in. high
6675-66-014-1842	TEMPLATE, LETTERING, UNO UF 12	
6675-66-014-1843	TEMPLATE, LETTERING, UNO UC 16	} 1-in. high
6675-66-014-1844	TEMPLATE, LETTERING, UNO UF 16	
6750-66-010-5912	DEVELOPER, PHOTOGRAPHIC 20-oz.	
6750-66-015-4886	DEVELOPER, PHOTOGRAPHIC 80-oz.	
6750-66-010-9178	FILM, IMAGE TRANSFER 8-½-in. x 13-in.	
6750-66-010-9751	FILM, IMAGE TRANSFER 13-in. x 16-½-in.	
6750-66-010-5902	PAPER, IMAGE TRANSFER, POSITIVE SINGLE	8½-in. x 10½-in.
6750-66-017-7218	PAPER, IMAGE TRANSFER, POSITIVE SINGLE	8½-in. x 13-in.
6750-66-017-4921	PAPER, IMAGE TRANSFER, POSITIVE SINGLE	11½-in. x 16½-in.
6750-66-017-7217	PAPER, IMAGE TRANSFER, POSITIVE SINGLE	13-in. x 16½-in.
6750-66-017-4922	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE	8½-in. x 10½-in.
6750-66-010-5905	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE	8½-in. x 13-in.
6750-66-018-5336	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE	13-in. x 16½-in.
6750-66-017-4940	PAPER, IMAGE TRANSFER, NEGATIVE, STANDARD	8½-in. x 10½-in.
6750-66-017-7230	PAPER, IMAGE TRANSFER, NEGATIVE, STANDARD	8½-in. x 13-in.
6750-66-017-4942	PAPER, IMAGE TRANSFER, NEGATIVE, STANDARD	11½-in. x 16½-in.
6750-66-017-4943	PAPER, IMAGE TRANSFER, NEGATIVE, STANDARD	13-in. x 16½-in.
6750-66-019-6372	PAPER, IMAGE TRANSFER, NEGATIVE, MEDIUM	8½-in. x 10½-in.
6750-66-019-6373	PAPER, IMAGE TRANSFER, NEGATIVE, MEDIUM	8½-in. x 13-in.
6750-66-019-6374	PAPER, IMAGE TRANSFER, NEGATIVE, MEDIUM	13-in. x 16½-in.
6750-66-010-8368	PAPER, IMAGE TRANSFER, NEGATIVE, SLOW	8½-in. x 10½-in.
6750-66-017-7231	PAPER, IMAGE TRANSFER, NEGATIVE, SLOW	8½-in. x 13-in.
6750-66-010-8475	PAPER, IMAGE TRANSFER, NEGATIVE, SLOW	13-in. x 16½-in.
6750-66-016-3188	PAPER, PHOTOGRAPHIC, WHITE 8-in. x 13-in.	
6750-66-017-4923	PAPER, PHOTOGRAPHIC, WHITE 14-in. x 18-in.	

7920-66-017-4999	BRUSH, DUSTING, OFFICE MACHINE
8040-66-010-3244	ADHESIVE GUMARABIC, LIQUID 5-oz.
8040-66-014-0886	ADHESIVE GUMARABIC, LIQUID 10-oz.
8040-66-017-0920	ADHESIVE GUMARABIC, POWDER FORM
8040-66-011-9086	ADHESIVE STARCH, PASTE FORM 10-oz.
8040-66-012-8909	ADHESIVE STARCH, POWDER FORM
8135-66-014-0869	PAPER, WRAPPING, BROWN 29-in. x 45-in.
8135-66-014-0868	PAPER, WRAPPING, BROWN 29-in. x 45-in.
8135-66-010-3569	TAPE, TEXTILE, WHITE ½-in. wide

2. For the purpose of rationalisation, it has been decided that in future, the above items should be dealt with as Naval Stores. These items which have been codified under the Defence Cataloguing System (DCS) will retain their Defence Stock Numbers (DSN's). All reference to these items in correspondence, vouchers or documentation is to be by Defence Stock Number.

3. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

4. The relevant publications ABR 5053 and the RAN Supplement to BR 810 Rate Book, will be amended in due course.

(DSAP 465/52/903)

UNCLASSIFIED

125—Naval Stores General (Group Class 5815)—Teletype and Facsimile Equipment—Re-identification to Federal Stock Numbers

The following items, previously accounted for under Part Numbers have been re-identified to Federal Stock Numbers (FSN's) as follows—

<i>Old Stock No.</i>		<i>New Stock No.</i>	
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Group Class</i>	<i>Catalogue Number</i>
5815	00-TT 198M	5950	00-232-8646
			COIL, SOLENOID
5815	00-TT 2084	5815	00-125-4887
			ROLLER
5815	00-TT 6827	5815	00-412-5534
			CONNECTOR RECEPTACLE
5815	00-TT 6972	5815	00-126-4207
			BUMPER ASSEMBLY
5815	00-TT 73641	5815	00-127-2071
			GUIDE, LINE
5815	00-TT 74085	5330	00-530-0643
			WASHER, NON-METALLIC
5815	00-TT 74744	5815	00-125-8111
			GUARD
5815	00-TT 76800	5340	00-448-1628
			SPRING, HELICAL, EXTENSION

<i>Old Stock No.</i>		<i>New Stock No.</i>	
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Group Class</i>	<i>Catalogue Number</i>
5815	00-TT 77068	5815	00-125-5162 PLATE
5815	00-TT 77128	5970	00-270-9300 INSULATOR, WASHER
5815	00-TT 77130	5815	00-125-8404 GUARD
5815	00-TT 78239	6105	00-236-9917 ROTOR MOTOR
5815	00-TT 84058	5815	00-126-8662 PLATE
5815	00-TT 84757	5815	00-502-9476 CONTACT ASSEMBLY, ELECTRICAL
5815	00-TT 86634	5815	00-153-3695 STIFFENER CONTACT
5815	00-TT 87385	5995	00-171-3089 LEAD, ELECTRICAL
5815	00-TT 89096	5330	00-281-8823 WASHER, NON-METALLIC
5815	00-TT 97155	5930	00-240-3675 SWITCH, TOGGLE
5815	00-TT 99214	5815	00-505-1167 SPLICER, TELE TYPEWRITER
5815	00-TT 102890	5945	00-170-4774 ARMATURE, ELECTROMAGNET
5815	00-TT 102892	5305	00-407-5971 SCREW, MACHINE
5815	00-TT 102893	5815	00-153-3694 SPRING, PLATE
5815	00-TT 102894	5815	00-153-3691 SPRING, PLATE
5815	00-TT 102895	5815	00-153-3692 LEVER
5815	00-TT 103511	5305	00-286-8977 SCREW, SHOULDERED
5815	00-TT 110651	5815	00-351-7870 GEAR, HELICAL
5815	00-TT 114968BA	5815	00-369-9157 SWITCH
5815	00-TT 114240AA	5815	00-126-3955 COPYHOLDER

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/58/257)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

126—ABR 5009—Australian Communication Training Syllabuses

Pending the revision of ABR 5009, if there is any conflict in communication training or promotion regulations with instructions in ABR 27 (RAN Training Manual), the latter regulations are to apply.

2. The contents of ABR 5009 will be confined to communication training information and expanded syllabuses showing greater detail than ABR 27.

(D of C 311/201/519)

UNCLASSIFIED

127—Correspondence in Small Ships

A recent Work Study Investigation of correspondence in small ships revealed that some originators of correspondence were not fully aware of the roles and capabilities of these ships.

2. It should be remembered that the secretarial facilities in small ships are limited and that correspondence incorrectly addressed creates an unnecessary work load in small ships and reduces the effective time officers have to devote to their primary tasks.

3. The following information is promulgated to assist originators of correspondence in selecting action addressees.

APPENDIX

127

<i>Ships</i>	<i>Admin. Authority</i>	<i>Roles</i>	<i>Maximum Officer Complement</i>	<i>Maximum Sailor Complement</i>	<i>Victualling Account Kept At—</i>	<i>Pay Accounts Kept At—</i>	<i>Service Certificates Kept At—</i>	<i>Medical Documents Kept At—</i>
KIMBLA	FOCAF	Research Trials and Local Tasks	4	36	KUTTABUL	KUTTABUL	KUTTABUL	KUTTABUL
DIAMANTINA	NOICWA	Basic and Higher Ranks Training— Oceanography Local Tasks	7	117	DIAMANTINA	LEEUWIN	DIAMANTINA	DIAMANTINA
PALUMA	FOCAF	Coastal Surveying	3	26	KUTTABUL	KUTTABUL	KUTTABUL	KUTTABUL
Minehunters on Australia Station	Cdr. MCM	Minehunting Minehunting Training	4	34	KUTTABUL	KUTTABUL	WATERHEN	KUTTABUL
Minesweepers on Australia Station	Cdr. MCM	Minesweeping Minehunting Minesweeping Training	4 (SO MCM 16) (4)	29 (SO MCM 16) (32)	KUTTABUL	KUTTABUL	WATERHEN	KUTTABUL
Patrol Boats on Australia Station	Local Area Commanders	Reserve Training SAR Duties Patrols	3	16	Local Area Commanders	Local Area Commanders	Local Area Commanders	Local Area Commanders

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(DFSD 80/1/88)

ANO's 128-140/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
23rd March, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

128—Appointment of Naval Agent at Lae

Because of the increasing amount of Naval activity at the port of Lae, New Guinea, it has been decided to establish the position of Naval Agent at this port.

2. This position has been filled by an officer of the Naval Reserve and has become operative from 1st March, 1967. Requests for service should be addressed to NOIC, NG.

(AS (NS) 351/8/2058)

UNCLASSIFIED

129—Director of Submarine Maintenance and Repair—Terms of Reference

Further to Paragraph 7 (e) of Navy Order 100 of 1965 the Director of Submarine Maintenance and Repair (Short title DSMR) will be responsible to the Assistant Chief of Naval Technical Services (Maintenance Division) for the maintenance and material readiness of submarines, including their associated weapon equipment.

Functions

2. The following functions are to be carried out in conjunction with the appropriate Naval Staff and Technical Divisions—

- (a) Planning and implementing programmes for the Maintenance and repair of submarines and their weapon equipment.
- (b) Provision of advice to the Naval Staff on the maintenance state of submarines and their weapon equipment.
- (c) To co-ordinate technical policy for the maintenance, operation and trials of submarines and their weapon equipment.
- (d) To be in overall charge of and to ensure dissemination of information concerning Submarine Planned Maintenance.
- (e) To advise on the technical requirements of Submarine Support.
- (f) To co-ordinate the provision of technical advice to the Naval Staff and Logistic Directorates on submarine matters.
- (g) To provide advice to the Personnel Directorates on manning standards and technical training for submarine technical personnel.
- (h) To provide advice to the Director of Naval Quality Assurance on the Quality Control requirements of submarine equipment procurement and repair.
- (i) To be the submarine technical representative on the A and A Committee.

(DSMR 2/4/136)

(Navy Order 100 of 1965)

UNCLASSIFIED

130—In-Confidence Australian Navy Orders

Navy Order 475 of 1966 introduced special privacy markings for In-Confidence material. A new series of navy orders will be used to promulgate this material.

2. This series will be issued separately, with the title In-Confidence Australian Navy Orders (short title ICANO's) and will contain the following—

- (a) *Staff-in-Confidence*—for personal or personnel matters.
- (b) *Medical-in-Confidence*—for medical matters.
- (c) *Commercial-in-Confidence*—for commercial matters.

3. These orders will remain in force for three years before automatic cancellation. They will be included in the Navy Order Index for UNCLASSIFIED/RESTRICTED material.

4. In-Confidence Navy Orders are to be accorded protection in accordance with Paragraph 4 of Navy Order 475 of 1966.

(CEO (GS) 47/203/4)

(Navy Order 475 of 1966)

UNCLASSIFIED

131—Returnable Documents—Checking of Basic "Eligibility" Information

Advice has been received from Treasury that arising from a recent fraud involving a large sum of public moneys an Audit review disclosed that, in some Departments, the provision for the internal controls and checks associated with the verification of basic eligibility information from returnable documents, e.g., birth certificates, discharge certificates, etc., is inadequate.

2. In this regard, attention is drawn to the provisions of Treasury Direction 1/9, which requires that efficient systems of internal controls are to be developed within the Department to eliminate errors and prevent frauds.

3. In pursuance of the above, all authorities responsible for verification of basic eligibility information are to review existing internal control procedures associated with the verification of basic eligibility information obtained from returnable documents, e.g., birth certificates; naturalisation certificates; medical certificates; secondary school, technical and professional qualifications; marriage certificates; and discharge certificates, etc., required by this Department, to ensure that—

- (i) As a general principle, the notation of documentary evidence made by one officer is checked by a second officer where errors could result in overpayments or fraud would be possible through collusion between an officer and an applicant or claimant. In many routine checks of documentary evidence the officer merely confirms information recorded on a form by an applicant and a check by a second officer under these circumstances would not be warranted unless there is the possibility of fraud by collusion.

(ii) Where verification of documentary evidence by one officer is permitted the officer is of senior status. The minimum status of the officer concerned should be as follows—

(a) Civil personnel—Clerk, 3rd Division, Class 4 (\$3,712-\$4,328);

(b) Naval personnel—officer status.

(iii) If photostating facilities are readily available, consideration is given to the desirability of retaining a copy of the document, having regard to the nature of the information to be verified and type of document concerned.

(DNA 206/1/44)

Section 2**PERSONNEL**

UNCLASSIFIED

132—Accidents—Operation of Power Worked Machinery

(DCI (RN) 78/1967)

As a result of a recent accident in the RN a junior sailor had the greater part of his right hand amputated. The sailor had placed his hand inside a fixed structure ammunition hoist without ensuring that the machinery was properly inhibited from operating.

2. The accident was attributable primarily to two main causes—

- (a) Imperfect understanding of the operation of the hoist.
- (b) Bad communication drill between gunbay and magazine.

3. The inherent dangers associated with machinery, especially remote controlled machinery, must be continually emphasised and this appreciation can only be cast in the correct perspective when the man has a proper understanding of the functioning of the machinery.

4. This particular accident would probably not have happened had the sailor concerned appreciated the operation of the hoist stop push, which was of the stop/reset type. Operation of this push would have inhibited operation of the hoist motor, so ensuring the hoist would not move until the inhibit was released by operation of the associated reset push. It should be noted that the use of this type of stop push is not confined to emergency use alone but can be used whenever it is required to stop machinery and to keep it stopped from a position remote from the primary starting position.

5. Where stop/reset type pushes are not fitted a similar degree of safety can be achieved by removal of fuses.

6. With regard to the other contributory factor towards this accident, all men, not only seamen, must be aware of the proper procedures associated with each kind of internal communication system. In particular, all messages passed over a telephone must be repeated.

(CONS 177/1/83)

UNCLASSIFIED

133—Competition—Bertrand Stewart Prize Essay

A legacy by the late Captain Bertrant Stewart provides a prize for the best essay submitted each year on a military subject selected by the Army Board of the Defence Council. The prize can be competed for by officers and other ranks who are serving, or have served, in any of the Armed Forces of the British Commonwealth.

2. The result of the 1966 Competition is as follows—

- Winner . . . Squadron Leader K. M. Oliver, RAF Regiment
 Runner-up . . . Brigadier F. W. Speed, OBE, ED, RL (late Australian Army)

3. The following subject has been selected for the 1967 Competition—

“The Defence White Paper states—

‘It is in the Far East and Southern Asia that the greatest danger to peace may lie in the next decade, and some of our partners in the Commonwealth may be directly threatened. We believe it is right that Britain should continue to maintain a military presence in this area. Its effectiveness will turn largely on the arrangements we can make with our Commonwealth partners and other allies in the coming years’.

Discuss how members of the Commonwealth could collaborate in the political, economic and military fields to help preserve peace and stability in the area East of Suez”.

4. The prizes offered by the Trustees are—

- (a) First prize £80 (Stg).
 (b) Second prize at least £15 (Stg) (subject to the essays being of the required standard).

5. The closing date for the 1967 Competition will be 22nd June, 1967. Essays marked “Bertrand Stewart Prize Essay” on the envelope, should be addressed direct to—

The Editor,
 The Army Quarterly and Defence Journal,
 Dorland House,
 14 and 16 Lower Regent Street,
 LONDON, SW1.

6. Conditions of entry—

- (a) The essays submitted must be not less than 5,000 or more than 10,000 words in length; they must be typewritten and submitted in quadruplicate.
 (b) The use of classified information must be avoided. Any such use will lead to disqualification.
 (c) The authorship of the essays must be strictly anonymous. Each competitor must adopt a motto and enclose with his essay a sealed envelope with his motto typewritten on the outside and his name and address inside.

- (d) The title and page of any published or unpublished work to which reference is made in any essay, or from which extracts are taken, must be quoted.
 (e) The essays will be judged by at least three referees to be appointed by the Army Board of the Defence Council. The decision of the referees (or a majority of them) will be final. If, in the opinion of the referees and Trustees (or in the opinion of the majority of them), no essay submitted to them comes up to a sufficiently high standard of excellence, they are fully empowered to withhold the prizes; or they may, if they consider such a course desirable, divide the prizes equally among two or more of the competitors.
 (f) The result of the competition will be made known in the Army Quarterly and Defence Journal in January, 1968, and the prize essay may be published in the same issue.
 (g) The copyright of any essay which appears in the Army Quarterly and Defence Journal belongs to the proprietors of that review.
 (h) No responsibility can be held for the loss or return of any essays submitted for the competition.

(DPS 38/6/35)

UNCLASSIFIED

134—Instructor Officers—Employment With State Education Departments on Retirement

With the introduction of the Short Service Scheme for Instructor Officers, State Education Departments have been requested to indicate what recognition each will grant to Instructor Officers when they leave the Service.

2. Recognition granted by each State is shown in general terms below, though in every case, detail must be finalised by negotiation between the officer and the Education Department.

3. Prior to retirement, officers will be issued on request with a statement of Naval Service which will include subjects taught and levels of instruction, for use in negotiations.

4. Recognition by State Education Departments

- (a) *New South Wales*—Instructor Officers who are trained teachers may be granted half credit for years of Naval Service.
 (b) *South Australia*—Full or almost full recognition is given for years of Naval Service. Officers with a degree, teaching qualification and at least three years experience may expect to commence in the highest category of Assistants.
 (c) *Victoria*—Half credit for years of Naval Service is allowed. Officers with six or more University subjects, with or without teaching qualifications, can negotiate for a maximum salary of \$4,314 p.a. dependent on length of service. For officers with less than six University subjects, the maximum salary for initial appointment is \$3,706 p.a.

(d) *Western Australia*—Only trained teachers are accepted. No teacher over 50 years of age can be appointed to the permanent staff. One salary increment is given for each of the first four years of teaching experience, and one increment for each two years in excess of the first four. However, no teacher can progress beyond grade 15 until efficiency requirements are satisfied.

(e) *Tasmania*—Half credit for years of Naval Service is offered.

5. The recognition granted by the Queensland Department of Education will be promulgated later.

(DNES 347/1/12)

UNCLASSIFIED

135—Temporary Restrictions on Flying Due to Extraneous Physiological Reasons

The manning of modern aircraft calls for as perfect as possible physiological and psychological balance on the part of aircrew.

2. Apart from pathological conditions this balance may be disturbed as a result of various extraneous factors, the effects of which are scarcely perceptible and therefore, negligible for everyday activities, but are considerably increased in the case of those whose work is in the air.

3. Flight safety, therefore, requires that Medical Officers responsible for the medical supervision of aircrew should be well aware of these factors and of the appropriate preventive measure.

4. The main extraneous factors to be taken into consideration are—

- (a) Administration of certain drugs which do not require the patient to be confined to bed.
- (b) Immunisation procedures.
- (c) Loss of blood affecting regular and occasional donors and following dental extractions.
- (d) Simulated ascents in pressure chambers.
- (e) Competitive or tiring sporting activities.
- (f) Skin diving.

5. Administration of Certain Drugs

In general, aircrews requiring drugs having a systemic reaction will be removed from flying duties. In certain instances where these drugs are absolutely indicated, they must be dispensed by, or with the knowledge of, the attending Medical Officer.

6. Immunisation Procedures

It must be recognised that in particular cases of certain immunisations the following measures should be taken in the event of a reaction occurring—

- (a) *TAB-TABT-TABDT and Anti-plague Immunisation*
Suspension from flying duties until local or general reactions disappear.
- (b) *Yellow Fever Immunisation*
Suspension from flying duties until all signs of possible general reactions have disappeared.

7. Loss of Blood Affecting Donors

The taking of blood, when it amounts to as much as 300 or 400 grams (1 pint) may bring about a neurovegetative and humoral imbalance on the part of the donors. Two principles are important—

- (a) Flying personnel should not be regular blood donors.
- (b) Any occasional giving of blood should be followed by a ban on flying for an appropriate duration.

8. Training in a Decompression Chamber

Test ascents in a decompression chamber up to a simulated altitude of 30,000-ft. (9,144 metres), whether carried out for the sake of physiological control or as part of the aeromedical training of flying personnel, call for limitation as follows—

- (a) When symptoms and/or reactions occur during or after the test a suspension from flying duties will be prescribed according to the discretion of the attending Medical Officer.
- (b) Serious effects will entail a period of observation in hospital.

9. When training in the chamber entails a test of sudden and violent decompression, no high altitude flying during the day following the test is to be allowed for the members concerned.

10. Skin Diving

The danger of aeroembolism during flight is considerably increased after a stay in an overcompressed atmosphere, and in particular after skin diving. To avoid the occurrence of such accidents, it is important that the following minimum safety rules be applied to aircrew—

- (a) Any aircrew member who, with an independent breathing apparatus, has skin dived deeper than 30-ft. (10 metres) should be barred from flying at altitudes above 18,000-ft. cabin pressure for the twelve hours following the dive.
- (b) Any incident occurring during, or following, skin diving imposes an automatic ban on flying until a medical examination has been carried out.

11. Navy Orders 220 of 1966 (Paragraph 8), 144, 488 and 518 of 1966 are also relevant.

(MDG 327/53/148)

(Navy Orders 144, 220, 488 and 518 of 1966)

UNCLASSIFIED

136—The Services General Certificate of Education

Approval has been given for the introduction of a common educational examination for the Three Services and this order gives advance, but only broad, detail of the scheme.

2. This examination is to be known as the Services General Certificate of Education (SGCE) and is to be offered in nine subjects whose standards are identical, where applicable, with those of the Victorian Leaving Certificate and are, in general, higher than those of the related subjects of the present Higher Educational Test of the RAN.

3. The Victorian Universities and Schools Examination Board has agreed to recognise passes gained in the SGCE as being equivalent to passes gained, subject for subject, in the Victorian School Leaving Examination. Hence SGCE will offer the serviceman the opportunity of gaining educational qualifications with an accepted civilian equivalence and which will be accepted as prerequisites for the Victorian Matriculation Examination.

4. The SGCE will be conducted biannually in April and November in the following subjects, which may be attempted singly or in any combination desired—

English
 Modern History
 Geography
 Economics
 Mathematics I
 Mathematics II
 Physics
 Chemistry
 Navigation.

5. Handbooks and Study Guides are presently being prepared and textbooks obtained to implement the scheme; these will be distributed, without demand as they become available, to ships and establishments.

6. The first examination is scheduled for November, 1967, but because of the limited time available and the lack of textbooks, it is not expected that many sailors will be sufficiently prepared to sit this examination.

7. In due course it is anticipated that satisfactory SGCE performance will become the sole educational prerequisite for promotion to commissioned rank within the Special Duties and Supplementary Lists. However, until the scheme is proven, the present Higher Educational Test will continue in order to ensure that no sailor seeking promotion will be placed at a disadvantage.

8. Only those candidates who have satisfactorily pursued a course of study in preparation will be permitted to sit the SGCE examination. In this respect, applications to sit any April or November examination must be submitted to the Director of Naval Education Service, through Senior Instructor or Education Officers, by 1st December and 1st June respectively.

9. Subject syllabuses, detailed SD and SI educational requirements, examination procedures, etc., will be incorporated in RI's in due course.

(DNES 325/1/47)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

137—Batteries and Cells—Ventilation of Battery Containers

(DCI (RN) 797/1966)

Attention is drawn to the requirement, in all cases where a secondary battery of the lead acid type is enclosed in a battery container, for the container to be ventilated in order to prevent the accumulation of a dangerous concentration of hydrogen.

2. Ventilation can be considered to be adequate for this purpose if the venting area provided is equal to—

$$\frac{3 \times \text{No. of battery cells} \times \text{ampere hour capacity of battery}}{1,000} \text{ sq.-in.}$$

3. All containers of propulsion or starter batteries on mechanical handling equipment and vehicles used in HMA dockyards and Fleet and Civil shore establishments are to be examined and the ventilation increased, if necessary, to meet the requirement laid down in Paragraph 2.

4. Care is to be taken to ensure that existing and additional (if any) ventilation openings are arranged to exclude falling water and will be unlikely to become choked with dirt, etc.

(PEE 400/2/725)

UNCLASSIFIED

138—Fire Control—MRS 3 Systems—AFCB Mark 10—Modification to Cover Plate to Facilitate Recording of Target Speed Dial—Modification No. 5 to AFCB 10

- | | | |
|---|----|--|
| 1. <i>Ships, establishments and authorities concerned</i> | .. | All ships and establishments so fitted. Weapon Equipment Depots. |
| 2. <i>Equipment</i> | .. | AFCB Mark 10. |
| 3. <i>Part of equipment affected</i> | .. | Left hand front cover. |
| 4. <i>Purpose of modification</i> | .. | To enlarge the aperture over the target speed drum to facilitate recording by Dial Recording Camera. |
| 5. <i>Details of modification</i> | .. | Modify cover plate, keep plate and joint ring to provide enlarged aperture. |
| 6. <i>Drawing</i> | .. | Navy Order Diagram Issue 2 of 1967. |
| 7. <i>By whom to be done</i> | .. | Ship's Staff. Weapon Equipment Depots. |
| 8. <i>Priority</i> | .. | Category 1. |
| 9. <i>How to be treated</i> .. | .. | As a defect. |
| 10. <i>How to be recorded</i> .. | .. | As modification No. 5 to AFCB Mark 10. |

(DWE 737/56/73)

UNCLASSIFIED

139—Helmet, Flight Deck, Mark III—Availability of New Pattern and Scale of Issue

Helmets, Flight Deck, Mark III, which are designed to incorporate the Aural Protector, Sound Muff, Catalogue No. 40025, are being introduced to replace Helmets, Flight Deck, Catalogue Nos. 45067/86.

2. Stocks of the new helmets, in a range of colours which conforms with Paragraph 1 of SEASTAG 1050, are now available and demands for requirements in accordance with the scale of issue, shown in the appendix to this order, are to be lodged with the Superintending Victualling Store Officer, Royal Edward Victualling Yard, Sydney.

3. On receipt of stocks of Helmets, Flight Deck, Mark III, superseded Helmets, Flight Deck, Catalogue Nos. 45067/86 are to be withdrawn and returned to Royal Edward Victualling Yard.

4. ABR 93, Manual of Victualling, Part 1, Appendix 35 (29), and Loan Clothing Scales, Scale 2, will be amended.

APPENDIX

Scales of Issue—Helmet, Flight Deck, Mark III

Colour	Catalogue No.	Size	Scale of Issue					Category of Wearer
			816 Sqn.	816 Sqn. B	817 Sqn.	RANAS Nowra	HMAS MELBOURNE	
Yellow ..	45640	1						
Yellow ..	45641	2				2	24	Flight Deck Officers Aircraft Directors
Yellow ..	45642	3						
Yellow ..	45643	4						
Blue ..	45644	1						
Blue ..	45645	2						
Blue ..	45646	3	4	1	4	4	60	Handling Crews Chockmen
Blue ..	45647	4						
Green ..	45648	1						
Green ..	45649	2						
Green ..	45650	3						Hookmen
Green ..	45651	4						

APPENDIX—continued

Colour	Catalogue No.	Size	Scale of Issue					Category of Wearer
			816 Sqn.	816 Sqn. B	817 Sqn.	RANAS Nowra	HMAS MELBOURNE	
Brown ..	45652	1						
Brown ..	45653	2	29	9	34	20	—	AE Sailors (Below CPO Status)
Brown ..	45654	3						
Brown ..	45655	4						
Red ..	45656	1						
Red ..	45657	2					20	Firefighters Crash Parties
Red ..	45658	3						
Red ..	45669	4						
White with Red Cross	45660	1						
White with Red Cross	45661	2						
White with Red Cross	45662	3			1	1	6	First Aid Parties Doctors
White with Red Cross	45663	4						
White with Black Stripe	45664	1						
White with Black Stripe	45665	2						
White with Black Stripe	45666	3					48	Arresting Gear Crews Barrier Operators Catapult Crews
White with Black Stripe	45667	4						

APPENDIX—continued

Colour	Catalogue No.	Size	Scale of Issue					Category of Wearer
			816 Sqn.	816 Sqn. B	817 Sqn.	RANAS Nowra	HMAS MELBOURNE	
Red with Black Stripe	45668	1						Weapons Sailors
Red with Black Stripe	45669	2						
Red with Black Stripe	45670	3	8	4	4	8	12	
Red with Black Stripe	45671	4						
Green with Black Stripe	45672	1						AW and AC Sailors (Below CPO Status)
Green with Black Stripe	45673	2						
Green with Black Stripe	45674	3	15	5	15	10	18	
Green with Black Stripe	45675	4						
White ..	45676	1						Squadron CPO's and PO's (Supervisory Sailors)
White ..	45677	2						
White ..	45678	3	8	3	9	10	—	
White ..	45679	4						

(D of V 917/61/57)

UNCLASSIFIED

140—RAN System of Planned Maintenance—Description and Instructions

The aim of the Common Planned Maintenance System is to provide—

- (a) A standard system for controlling maintenance along sound and proven lines with minimum supervision.
- (b) A central record of work completed, results of tests and of alterations carried out on equipment.
- (c) A standard method of reporting progress of maintenance in ships and establishments.

2. The Planned Maintenance System in no way alters the responsibilities of Technical Officers as laid down in RI's, and departures when considered necessary due to operational requirements may be made at the discretion of officers concerned.

3. The system is based on a modern card index which contains a number of cards giving a permanent record of each maintainable item of equipment. The index, contained in a cabinet consisting of a number of card carrying trays, or in a visible card book, is known as the "Master Index".

4. Each card in the Master Index has a related polythene envelope containing a variety of cards which give details of routine maintenance and provide a means for the responsible sailor to report details of maintenance, and results of tests carried out. This envelope, complete with maintenance cards and maintenance report card, is enclosed in an outer polythene envelope known as a "Maintenance Envelope", is normally kept in a four drawer filing cabinet.

5. The Master Index and maintenance envelopes are operated on monthly or quarterly cycles dependent upon the programming period in use. At the commencement of each programming period appropriate envelopes are selected for issue. The programming period for all departments is now quarterly; however, Electrical Departments currently on monthly programming will remain as such until new or replacement systems are introduced.

6. For the great number of important routines which are carried out at periods more frequently than the programming period, "Check-off Maintenance Instructions" and report forms are issued to the leader of each Maintenance Party.

7. The three items—

- (a) Master Index,
- (b) Maintenance Envelope,
- (c) Check off maintenance instructions,

together comprise the working part of the system and are fully described in Appendix A.

8. To support the system, and to assist in compiling reports, making good lost or damaged cards, and in maintenance planning and control, the following documents which are described in Appendix B, are also supplied—

- (a) Key Plans.
- (b) Books of Maintenance Schedules.
- (c) Quarterly progress report forms.
- (d) Dockyard Planned Maintenance Progress Chart.

9. (a) Separate systems are currently issued to each technical department as follows—

- Hull (Technical)
- Marine Engineering
- Electrical
- Weapons (Mechanical).

(b) Consequent on the re-organisation of responsibilities for Weapons, Weapon System and Radio Equipment in accordance with Navy Order 690 of 1965, the separation of systems to be issued to each technical department for new or replacement systems will be as follows—

Hull (Technical)

Marine Engineering

Weapon Electrical (Electrical, Weapon Electrical and Weapons),

and responsibilities for the efficient operation of these systems as issued rests with the head of Technical department concerned.

10. In addition to the Hull (Technical) System which details routines to be undertaken by Naval Shipwrights, a Hull (User) component is issued to the Executive Officer who is responsible for its efficient operation.

11. The Hull (User) component, as the title implies, details maintenance routines which are to be carried out by various departments on parts of ship. The Executive Officer is the co-ordinator of the system and is to ensure that maintenance routines are carried out by the appropriate department when due, and that the necessary records are kept and reports forwarded.

12. All documents associated with the system are initially supplied by Navy Office. Replacement cards, envelopes and forms with the exception of AS 3007 (Equipment Card) are obtainable from Chief Superintendent of Stores, Sydney, on demand. A list of items available from Chief Superintendent of Stores, Sydney, is shown in Appendix C. AS 3007 will be issued from Navy Office completed with equipment.

13. Amendment proposals when considered necessary to improve maintenance are to be raised on Forms AS 2062Z and forwarded to Navy Office through Administrative Authorities. These will be considered, and the ship or establishment informed of the action taken. Serial Nos. of Forms AS 2062Z are to be prefixed as in Paragraph 15.

14. Reports required are as follows—

(a) Quarterly by signal to Administrative Authority.

(b) Quarterly Progress Report Forms are to be completed in accordance with the instructions printed on the reverse side of the report forms cover sheet, and forwarded direct to the Secretary, Department of the Navy, Navy Office, Canberra.

15. Defect recording and reporting procedure, although allied with planned maintenance, is applicable to all ships and establishments, and separate instructions have been promulgated in other orders. The prefix letter before the serial number on Forms AS 2061Z for defects made good by ships staff, is to be strictly adhered to as follows—

H .. Hull

E .. Engineering

WE .. Weapons and Electrical Engineering including Radar, Communications and Sonar.

16. Reports of defective material or design are dealt with by using Form AS 2022 procedure. This procedure is standard for all ships and establishments whether operating planned maintenance or not, and separate instructions are in force. Serial numbers of Forms AS 2022 are to be prefixed as in Paragraph 15.

17. Starred items are included in the schedules. These are items for which the inspection, examination and overhaul is mandatory. Naval Board approval is to be obtained to defer a starred item.

18. Forms AS 2024 (56) and (57) are to be completed and forwarded when torpedoes, weapon equipment units and sub-unit assemblies are landed or transferred.

APPENDIX A

The Master Index

The Master Index consists of a Kalamazoo cabinet or folder containing equipment cards. Each maintainable unit or installation of equipment is represented by its own equipment card which carries full details of the equipment. Associated with each equipment card are auxiliary sheets. These, of necessity, will differ with each department according to the details which are desired to be recorded.

2. Equipment cards on issue from Navy Office have a strip on the lower visible edge which is coloured to indicate when routines are due. The colours used conform with the colour code for maintenance cards shown in 4 below.

3. Maintenance Envelopes

Each equipment card has a related maintenance outer envelope containing a maintenance report card with the appropriate maintenance cards enclosed in a smaller inner envelope.

4. Maintenance cards are coloured to indicate the periodicity of the routine inspection and have the relevant maintenance instructions pasted on them. Colour definitions in use are as follows—

Monthly Routines	..	..	..	..	Blue
Quarterly Routines	..	..	..	..	Yellow
Half Yearly Routines	...	..	..	..	Red
Annual Routines	..	..	..	..	Green
Biennial Routines	..	..	..	..	White
Triennial Routines and above	..	..	..	..	Brown

5. "Check-Off" Maintenance Instructions

These are maintenance routines for which no permanent record of completion is required, and are issued in sheet, book or card form together with appropriate report forms.

6. The Master Index is "scanned" at the beginning of each programming period in conjunction with the Key Plans to select the maintenance envelopes for the work being planned. The inner envelopes containing maintenance cards for maintenance due are then issued to section leaders who arrange to perform the maintenance. On completion of the specified maintenance, the inner envelopes are returned to the maintenance office and the report card completed. Any relevant information is then transcribed to the Master Index and Quarterly

APPENDIX A—continued

Progress Report. All maintenance cards are returned to their appropriate inner envelopes which together with the report cards are replaced in their respective outer envelopes which had been retained with instruction cards for maintenance not due and report cards. The outer envelopes are then returned to the filing cabinet drawer.

APPENDIX B

Books of schedules are issued to ships and establishments, administrative authorities and dockyards by Navy Office. These contain the following—

- (a) An index which lists all relevant equipments with schedule and card numbers.
- (b) Maintenance schedules applicable to the establishment, ship or class of ship. Each schedule bears an identifying number. When maintenance cards are lost, new cards, available from CSS, Sydney, can be prepared and the appropriate routines copied from the relevant schedule.
- (c) Key plans which are prepared in Navy Office for planning a satisfactory distribution of maintenance over the year. The key plan lists every maintainable unit or installation, its location, appropriate schedule and card numbers. All routines required to be completed are also shown.

2. Quarterly report forms are supplied to simplify the reporting procedure. These consist of—

- (a) Front cover sheet with instructions for compiling the report and a table to be completed by ship or establishment, showing how available man hours during quarter were used.
- (b) An extract of the key plan showing all routines due during the quarter with space left for recording man hours, a maintenance summary for each section, and a space for remarks.
 - (i) The man hours spent on planned maintenance is exclusive of monthly and more frequent routines for hull, marine engineering and weapon engineering reports, and the present daily and weekly routines for electrical engineering reports; these are shown separately in the space provided.
 - (ii) The estimated man hours to complete outstanding planned maintenance is to be calculated by adding together all the times for routines not completed during the quarter using estimated time.
 - (iii) The man hours spent on defects is calculated by adding together all the times shown on submitted Defect Record Forms AS 2061Z.
 - (iv) The estimated man hours to complete outstanding defects is to be calculated from all outstanding Defect Record Forms AS 2061Z.

3. The Dockyard Planned Maintenance Chart is a wall chart showing each routine dockyard component of planned maintenance, and instructions for its use are promulgated by separate navy order.

APPENDIX C

The following consumable items are available for replacement purposes in ships and establishments supplied with planned maintenance documents, and should be demanded from Naval stores as stationery—

- Envelopes Polythene 84-in. x 6-in.
- Envelopes Polythene 84-in. x 54-in.
- AS 3006 Cards Maintenance Report
- AS 3123 Cards Modification and A and A
- AS 2061Z Forms Defect Record
- AS 2062Z Forms Amendment Proposal
- AS 3008H Sheets Auxiliary—Hull
- AS 3008M/WR Sheets Auxiliary Marine Engineering Wear Record
- AS 3008M/SR Sheets Auxiliary Marine Engineering Steaming Record
- AS 3008M/UV Sheets Auxiliary Marine Engineering Underwater Valves
- AS 3008L Sheet Auxiliary Weapons and Electrical
- AS 3008R Sheet Auxiliary Radio
- AS 3008RC Sheets Auxiliary Radio (Continuation)
- AS 3008E Sheets Auxiliary Weapon
- AS 3008G.OE Cards Weapons General Information
- AS 3125H Cards Air Test of Compartments
- AS 3124 Cards Radio Polar Diagram
- AS 3125 Cards Calibration Record of Test Equipment

2. Equipment cards (AS 3007 series) will be supplied on application to Director of Marine Engineering and Dockyards or Director of Weapon and Electrical Engineering, Navy Office, Canberra.

3. The following permanent items will be supplied from Navy Office, to the ship or establishment, at the time of introducing the common planned maintenance system into the ship or establishment—

- (a) Cabinets, 4 drawer, over- For stowage of routine cards
all dimensions 19-in. W x
18-in. H x 19-in. D
 - (b) Acme Cabinets, Size 87 (7
tray)
 - (c) Acme Cabinets, Size 813 (13
tray)
 - (d) Acme 156 Card Books (type
820)
 - (e) Acme 102 Card Books (type
815)
- } for Master Index.

APPENDIX D**Amendments**

Amendments to planned maintenance routines, cards, etc., will be promulgated as "Planned Maintenance Amendments".

2. Alterations to time estimates where applicable are to be made automatically within the ship or establishments. Ultimately all such amendments are to be reported on Form AS 2062Z which is to be marked "for information only".

3. Proposals for new schedules to change routines and proposals to add or delete maintenance or equipment cards are to be forwarded for approval on Form AS 2062Z and if approved an amendment will be issued. In the intervening period, necessary adjustments may be made as a temporary measure to ensure satisfactory maintenance.

(ACMD 1209/51/102)

(Navy Order 690 of 1965)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
24th March, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Phandau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

141—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During January, 1967

The magazines, pamphlets and amendments to publications, etc., and SC Series contained in the appendix to this order have been distributed to ships and services during January, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of P Series Amendments referred to in the appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 70	Cumulative Supplement corrected to 31.7.1966
BR 121	Supplement No. 5
BR 125	Supplement No. 4 and New Entries No. 4
BR 763	Supplement No. 5
BR 2050 (402C)	Australian Amendment No. 3
MBR 8027	Supplement No. 5 Supplement No. 6

SC SERIES

ACP No.	SC No.
ACP 117B	SC 17/66 Correction 12/1
ACP 118-1	SC 15/66 Change 44
ACP 131(B)	SC 11/66 Correction 3

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Aircraft	December, 1966
Aircraft	January, 1967
Armed Forces Management	September, 1966
Armed Forces Management	October, 1966
Armed Forces Management	November, 1966
Electrical Design News Vol. II No. 10	14.9.1966
Electrical Design News Vol. II No. 11	28.9.1966
Electrical Design News Vol. II No. 12	October, 1966
Flight	13.10.1966
Flight	27.10.1966
Flight	3.11.1966
Flight	10.11.1966
Flight	17.11.1966
HMSO List of Publications	June, 1966

BOOKS, MAGAZINES AND PAMPHLETS—continued

Publication	Date
HMSO List of Publications	July, 1966
HMSO List of Publications	August, 1966
Navy Management Review	August, 1966
Navy Management Review	September, 1966
Signal	September, 1966
Signal	October, 1966
Signal	November, 1966
RN Navy List	Autumn, 1966
US Naval Institute Proceedings	September, 1966
US Naval Institute Proceedings	October, 1966
US Naval Institute Proceedings	November, 1966
US Naval Institute Proceedings	December, 1966

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
101A-0100-16	AL 33
109A-0001	(AL 1054)-B 671 (Alt. 1 incp.)
109A-0002	(AL 1043)-B 693 (AL 1051)-B 698
109B-0103-5	AL 23, 24 and 25
112T-01193-1	AL 1
116G-0602-1	AL 4, 5, 6, 7 and 8
1181D Vols. 1 and 6 Part 1	AL 47
1182C (N) Vol. 1	AL 50
1275B Vol. 2	(AL 166)-Z 12
1275G Vol. 3 Part 1 (N)	AL 5
1602	The Air Almanac 1967 (January-April)
1664E Vols. 1 and 5	AIL 1/66
1803 Vol. 2 Part 1	I 3 V 90 V 91
2534N Vol. 2	(AL 139)-B 68 (Alt. 3 incp.) (AL 140)-B 83 (Alt. 1)
2535F Vol. 2	RAN/2
2554E Vol. 2	(AL 14)-B 10
2887N Vol. 2	(AL 116)-B 71
4303E Vol. 1	AIL 1/66 AIL 2/66
4343B Vol. 3 Part 1 (N)	AL 19
4597B Vol. 3 Part 1 (N)	AL 6
4677A and B Vol. 2	(AL 27)-B 20
4685 Vol. 3 Part 1 (N)	AL 13
4723A Vol. 1 Book 2	AL 90
AVP 35	AL 1
AP (N) 400 (Gannet)	AL 26
AP (RAN) 8 Vol. 1 Book 1	AIL (RAN) 17 AL 62 and 68
AP (RAN) 8 Vol. 1 Book 3	AIL (RAN) 20
AP (RAN) 8 Vol. 1 Book 5	AIL (RAN) 1 (Leaflet 5/29)
AP (RAN) 8 Vol. 1 Book 7	AL 18 and 19

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
AP (RAN) 8 Vol. 2	AIL (RAN) 117 Mod. Leaflets GMG/GE/3 Mod. Leaflets GMG/GE/4 Mod. Leaflets M 19/GE/1 Mod. Leaflets M 19/67/B 2 Mod. Leaflets Mod.-866
AP (RAN) 8 Vol. 5 F/S Book 1 ..	AL 16
AP (RAN) 8 Vol. 5 F/S Book 2 ..	AL 55 and 56
AP (RAN) 8 Vol. 6 Part 1	AL 18
AP (RAN) 8 Vol. 6 Part 2	AL 51
AP (RAN) 8 Vol. 6 Part 3	AIL (RAN) 51 AIL (RAN) 52 AIL (RAN) 53 AL 39
AP (RAN) 9 Vol. 2	Transmittal Letter No. 52 (Mod. Bulletin Dec./66)
AP (RAN) 9 Vol. 3 Part 1	AIL (RAN) 3
AP (RAN) 9 Vol. 6 Part 2	AL 11
AP (RAN) 9 Vol. 6 Part 4A	AIL (RAN) 5
AP (RAN) 10 Vol. 1 Book 1	AIL (RAN) 11
AP (RAN) 10 Vol. 1 Book 4	AIL (RAN) 8 AIL (RAN) 9 AIL (RAN) 10
AP (RAN) 10 Vol. 2	Mod. Leaflets Scout/349 (Alt. 1) Mod. Leaflets Scout/599 (Alt. 1) Mod. Leaflets Scout/683 (Alt. 2) Mod. Leaflets Scout/685 (Alt. 1) Mod. Leaflets Scout/687 (Alt. 1) Mod. Leaflets Scout/754 (Alt. 1) Mod. Leaflets Scout/818 (Alt. 1) Mod. Leaflets Scout/836 (Alt. 1) Mod. Leaflets Scout/873 (Alt. 1)
AP (RAN) 10 Vol. 2 Book 2	AL 7, 8 and 9
AP (RAN) 10 Vol. 5 F/S Book 1	AL 4
AP (RAN) 10 Vol. 5 F/S Book 2	AL 5
AP (RAN) 10 Vol. 5 F/S Book 3	AL 2
AP (RAN) 19 Vol. 5 F/S Book 1	AL 16 and 17
AP (RAN) 19 Vol. 5 F/S Book 2	AL 34
AP (RAN) 26 Vol. 5 F/S Book 1	AL 8
AP (RAN) 101	AL 110
AP (RAN) 108 Part 4	AL 16
AMRA 15 Booklet "A" Section	AL 13 (Nov./66) AL 14 (Nov./66)
AMRA 15 Booklet "I" Section	AL 24 and 25
Air Clues	November, 1966
DCA Aeronautical Information Circular	No. 38/66 (1.12.66)
DCA Aeronautical Information Publications	AGA (AL 57) (1.12.66) MAP/0/1 (AL 24) (1.9.66) MAP/0/1 (AL 25) (1.10.66)
DCA NOTAM	No. 13/66 (1.12.66) No. 14/66 (15.12.66) No. 15/66 (15.12.66)

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
ICAO Bulletins	No. 10/66 No. 11/66
Collins Installation Manual (520-5970006-701116)	Rev. No. 7 (1.7.66)
RAN Retrospective Mod. Booklet Book 1	AL 10
RAN Retrospective Mod. Booklet Book 3	AL 7
RAN Retrospective Booklet Book 4	AL 8
AAP No. 2 Table of Contents (16th Edition)	Sub AL 50 (AL 33057) Sub AL 51 (AL 33475) Sub AL 52 (AL 34045) Sub AL 53 (AL 34262)
AAP No. 2 GCC 1740 (6th Edition)	Sub AL 4 (AL 33171)
AAP No. 2 GCC 5305 (5th Edition) Books 1-24	Addendum to Sub AL 15 (AL 32071)
AAP No. 2 GCC 3825 (3rd Edition)	Sub AL 4 (AL 32932)
AAP No. 2 GCC 4010 (5th Edition)	Sub AL 7 (AL 33094)
AAP No. 2 GCC 5820 (7th Edition)	Sub AL 6 (AL 33468)
AAP No. 2 GCC 5825 (7th Edition)	Sub AL 6 (AL 33641)
AAP No. 2 GCC 5835 (8th Edition)	Sub AL 7 (AL 33679)
AAP No. 2 GCC 5840 (7th Edition)	Sub AL 6 (AL 33228)
AAP No. 2 GCC 5841 (7th Edition)	Sub AL 5 (AL 33524)
AAP No. 2 GCC 5895 (6th Edition)	Sub AL 5 (AL 33799)
AAP No. 2 GCC 5905 (7th Edition)	Erratum to Sub AL 3 (AL 26593) Erratum to Sub AL 9 (AL 31443) Sub AL 11 (AL 33148)
AAP No. 2 GCC 5910 (5th Edition)	Sub AL 11 (AL 33198)
AAP No. 2 GCC 5915 (6th Edition)	Sub AL 29 (AL 33514)
AAP No. 2 GCC 5930 (8th Edition)	Erratum to Sub AL 7 (AL 30004) Sub AL 8 (AL 33717)
AAP No. 2 GCC 5940 (7th Edition)	Sub AL 4 (AL 33739)
AAP No. 2 GCC 5945 (6th Edition)	Sub AL 6 (AL 29426)
AAP No. 2 GCC 5955 (6th Edition)	Erratum to Sub AL 8 (AL 33155)
AAP No. 2 GCC 5960 (6th Edition)	Sub AL 29 (AL 33178) Erratum to Sub AL 29 (AL 33178)
AAP No. 2 GCC 5965 (8th Edition)	Sub AL 5 (AL 33772)
AAP No. 2 GCC 6730 (4th Edition)	Sub AL 5 (AL 33089)
AAP No. 2 GCC 8120 (7th Edition)	Sub AL 4 (AL 33806)
AAP No. 2 GCC 8455 (6th Edition)	Sub AL 4 (AL 33519)
AAP No. 2 GCC Group E Section 7B (12th Edition)	Sub AL 5 (AL 33804)
AAP No. 2 GCC Group F Section 14A (14th Edition)	Sub AL 5 (AL 33378) Sub AL 6 (AL 34001)
AAP 316	AL 152 and 153
AAP 711.16 Vol. 2 Part 1	AL 13
AAP 712.16 Vol. 2 Part 2	AL 6
AAP 721.65 Vol. 2 Part 2	AL 191 and 193
AAP 721.79 Vol. 2 Part 2	AL 337, 342, 344, 345 and 349

AMENDMENTS TO AIR PUBLICATIONS—continued

<i>AP No.</i>	<i>AL or Leaflet</i>
AAP 730.30	AL 17 and 18
AAP 745.32 Vols. 1 and 6	AL 18
AAP 751.63 Vols. 1 and 6	AL 16
RAAF Support Command Publication Orders	43/66 (27.10.66) 45/66 (10.11.66)

(DNS 465/57/674)



RESTRICTED

ANO's 142-155/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
4th April, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Mandau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

142—WRANS—Sheila McCleman's Trophy

The Sheila McCleman's Trophy awarded annually for competition for efficiency in Naval establishments where members of the WRANS are serving, has been awarded, for 1966, to the 'WRANS' unit in the Sydney area, HMAS PENGUIN.

2. Navy Order 177 of 1966 is hereby cancelled.

(HPB 138/6/43)

(Navy Order 177 of 1966)

Section 3 OPERATIONAL AND TRAINING

RESTRICTED

143—Aviation—SAR Divers—Technique and Instructions for Operations—Responsibilities

The regulations for the operation of divers in ABR 155 cannot be applied to SAR Divers when operating in the SAR role. The following instructions are to apply to SAR Diving Operations. When SAR Divers are operating in the normal CABA role, ABR 155 is to be followed.

Dress and Equipment

2. The dress of duty SAR Divers will be governed to a considerable extent by the climatic conditions. In the tropics the minimum clothing worn is to be a divers undersuit, in more temperate latitudes a Calypso wet suit may be worn if preferred.

3. The diver is also to wear the following equipment—

- (a) Mark 5 LSW fitted only with CO₂ inflation bottle and miniflare pack;
- (b) a waist belt with Martin Baker quick release unit having attached to it one snap hook on 17-in. of webbing lanyard;
- (c) swim fins;
- (d) divers knife;
- (e) face mask and snorkel.

4. In inshore waters there may be occasions when rescue to a maximum depth of 66 feet using Compressed Air breathing apparatus is possible. Compressed Air breathing apparatus is therefore to be carried in the aircraft when there is a possibility that it could be used. In addition, the normal ancillary and standby equipment in accordance with ABR 155 is to be carried in the aircraft when breathing apparatus is employed. The wearing of breathing apparatus is at the discretion of the captain of the aircraft.

Employment

5. A SAR Diver will assist in the rescue of a survivor whether in or out of an aircraft, who is unconscious, injured or foul of wreckage or a parachute harness at or near the surface. He cannot be expected to remain in contact with or carry out a

task on a rapidly sinking aircraft. However, dives to a maximum of 66 feet may be undertaken. (Note—Circumstances may be such that Clearance Divers could be employed in depths in excess of 66 feet providing the necessary supervisory requirements are met.)

Technique

6. The helicopter is to be brought to the hover so that the survivor is clear of rotor downwash and in view of the first pilot at a height depending on sea conditions. Above 20 feet from the water, the diver is to be winched into the sea; below 20 feet the diver may be winched or jump at the discretion of the captain of the aircraft.

7. Should it be apparent that the survivor requires immediate assistance in the water, the helicopter should be brought overhead and the diver jumped or winched into the water. The aircraft should then move to a position where the survivor and diver are clear of rotor downwash and in view of the first pilot. These techniques may be modified by the captain of the aircraft to suit the situation.

8. Because of the risk of entanglement with dinghy, wreckage or parachute harness a line is not to be used.

9. On entering the water the diver is to swim to the survivor and attach himself to the dinghy by the hook on his belt. When attached to the dinghy the diver is to signal the pilot to close the dinghy with the cable and strop paid out.

10. When the diver has the strop, the winch operator is to stop lowering the cable and the survivor is to be assisted into the strop by the diver. The survivor's dinghy lanyard is to be slipped when he is securely in the strop; the diver is to give the "thumb up" or two pulls (or two bells) on the winch cable.

11. After the survivor is onboard, the strop is to be lowered to the diver. When in the strop the diver is to disconnect his snap hook from the dinghy and be hoisted into the aircraft.

12. Should there be more than one survivor the diver is to swim to the nearest dinghy, attach himself and wait for the aircraft to make another approach. This shuttle service can be continued until all survivors are in the aircraft with the last recovery being the diver himself.

13. It is possible that the condition of a survivor or the load of the aircraft may necessitate the return of the helicopter to base, leaving the diver in the water for later recovery. In these circumstances, he should have a life raft, suitable pyrotechnics and a SARBE dropped to him.

Supervision

14. Operation	Supervision
(a) SAR emergency	No specialised supervision, standby diver or safety boat is required.
(b) Training jumps with a non-weighted diver who is positively buoyant and in wind force three or less	No specialised supervision, standby diver or safety boat is required. An extra aircrew member should be carried in order to carry out a double lift in emergency.
(c) Training jumps with a non-weighted diver who is positively buoyant and in wind force four or more	Full supervision and safety requirements in accordance with ABR 155. The supervisor and standby diver must be in a power boat in the immediate vicinity of the jumping area.
(d) Training jumps with a weighted diver	

Equipment Maintenance

15. (a) *Afloat*—The Ship's Diving Officer is responsible that the maintenance, preparation and tests of the diving equipment are carried out in accordance with the appropriate schedules.

(b) *Ashore*—The responsibility in (a) above is to be assumed by the Station Diving Officer.

(c) *On Detached Duty*—When (a) and (b) are feasible, e.g., when on detached duty, the OIC of the flight or the captain of an individual aircraft is responsible for maintenance.

Divers Responsibility

16. Notwithstanding Paragraph 15, the diver is to check that his set is operational before he emplanes and is to report the state of his set to the captain of the aircraft before each sortie.

Captain of the Aircraft's Responsibility

17. The following decisions on the divers procedure are the responsibility of the captain of the aircraft—

(a) whether to attempt a rescue by use of SAR Diver or not;

(b) whether to jump or be winched;

(c) whether to wear breathing apparatus and/or mask and snorkel.

Establishment of Stores

18. This is being compiled and will be promulgated in due course.

(DMT 303/221/77)

UNCLASSIFIED

144—Sailors—Introduction of SAR Divers—Selection, Training and Employment

The Naval Board have decided to introduce Search and Rescue Divers in order to maximise the chances of recovering personnel from the sea, e.g., ditched aircrew. Search and Rescue Divers can be expected to jump from a helicopter into any sea state in which a helicopter recovery can be effected.

Employment

2. A SAR Diver will assist in the rescue of a survivor, whether in or out of an aircraft, who is unconscious, injured or foul of wreckage or parachute harness at or near the surface. He cannot be expected to remain in contact with or carry out a task on a rapidly sinking aircraft.

3. SAR Divers will be allowed to 723 Squadron in sufficient numbers to permit two sailors to be available at all times. 817 Squadron will be allowed 4 SAR Divers. When not employed or standing by for SAR duties, these sailors will be employed in maintenance appropriate to their category. As SAR Divers will be fully occupied on SAR duties or maintenance, they are to be used as part of a ship's diving team in periods of operational necessity only.

Application for Course

4. Volunteers from Able and Leading Ranks in all Fleet Air Arm categories except PHOT and MET including qualified CABA Divers are required for training. Although sailors may volunteer for training at any time, normally they will not be selected and posted for training until they have completed six months at sea in the Able Rank or Able Rank Second Class. General Service Ordinary Seamen who have already qualified as CABA Divers may volunteer for transfer to the Fleet Air Arm in order to qualify as SAR Divers. Selection will depend on overall manning requirements. Applications accompanied by service documents and certificate of medical fitness are to be forwarded to the Naval Board.

Eligibility

5. Volunteers must possess the following qualifications before being selected for training—

- (a) a recommendation by the Captain;
- (b) be under 26 years of age on commencement of course;
- (c) medical category B1;
- (d) medically fit for CABA diving training in accordance with ABR 155;
- (e) PST;
- (f) have not less than twelve months to serve on completion of course.

Training

6. Selected sailors will be given the following training to fit them for their duties—

- (a) three weeks Compressed Air Breathing Apparatus (CABA) Diver Course at HMAS RUSHCUTTER (if not already qualified CABA Divers);
- (b) Basic Flying Course of 5½ weeks and Operational Flying Course of 3½ weeks at RAN Air Station Nowra.

Badges

7. On successful completion of course, sailors will be awarded the Sailor Aircrew Badge to be worn in accordance with the Uniform Regulations. The appropriate rank and category badges are also to be worn.

8. SAR Divers will normally continue to wear the Sailor Aircrew Badge for the remainder of their service as sailors. If the holder is removed permanently from flying duties for disciplinary reasons or other reasons within his control, the badge may be withdrawn by the Naval Board.

Allowances

9. In addition to active pay and allowances appropriate to their rank and category, the following continuous rates of allowances will be paid to qualified SAR Divers, whilst posted for SAR Diver duties—

- | | | |
|--|---------|------------------|
| (a) Special Allowance | .. .. . | 75 cents per day |
| (b) Supplementary Flying Pay (subject to NPI 119A/1) | .. .. . | 15 cents per day |

These allowances cannot be paid, however, until regulation cover has been obtained. Action is in course and further advice will be issued when the necessary regulations have been gazetted. Payment may then be applied to date of qualification and posting for SAR Diver duties.

10. The above allowances are not payable to sailors under training but in the event of accident whilst under training compensation is payable under conditions similar to those provided by the Air Accident (Commonwealth Liability) Act, 1963.

Cessation or Suspension of Special Allowance

11. The special allowance pay will cease or be suspended, as the case may be, under the following conditions—

- (a) *Personnel who become medically unfit to carry out the Duties for which the allowance is being paid—*
 - (i) For reasons beyond their own control—as from 91 days from the date on which they were first checked sick or until such time as certified as permanently unfit for further flying, whichever is the earlier.
 - (ii) For reasons within their own control—as from the date on which they were first checked sick. In any cases of doubt, payment should be suspended and the case referred to Navy Office for decision.
- (b) *Personnel who fail to keep in Regular Flying Practice—*
 - (i) A SAR Diver will cease to be qualified and eligible for the allowance if, for Service reasons, he has not fulfilled the requirement to carry out ten jumps per month for a period of 6 months. (A member would be required to again re-qualify before the allowance would be payable—see Sub-paragraph (iii) below.)
 - (ii) Where, for reasons other than Service exigencies or as otherwise provided, a SAR Diver fails to carry out jumping practice in respect of any month, or for any other reason—including disciplinary reasons—his qualifications lapse—the allowance will cease to be payable.
 - (iii) Following discontinuance of the allowance under (i) or (ii) above and where permitted to seek re-qualification, a member may be required to undertake and graduate from a course of diving training appropriate to the diving qualification sought.
- (c) *Personnel no longer Required for SAR Divers—*As from the date on which posted for non-SAR Diver duties. Normally a SAR Diver will not be required for flying duties after promotion to Petty Officer.

Continuation Training

12. In order to maintain their efficiency, and retain their SAR Diver qualification, each SAR Diver is to carry out ten jumps per month. These practices are to be spread over at least two sessions which are to take place a minimum of a week apart.

Relinquishment and Withdrawal of SAR Diver Qualification

13. A sailor who fails to maintain a proper standard of efficiency in flying duties subsequent to qualification may have his SAR Diver qualification withdrawn by the Naval Board on the application of the Captain. A SAR Diver may be temporarily suspended from flying duties by the Captain pending approval for the removal of SAR Diver qualification. A sailor whose SAR Diver qualification is withdrawn will be employed in normal maintenance duties.

14. Applications for removal of the SAR qualification should also recommend whether the CABA qualification would be removed or retained. Although the CABA qualification may be retained in accordance with current regulations when the SAR Diver qualification is removed, it is emphasised that removal of the CABA qualification (in accordance with normal diving requirements) automatically removes the SAR Diver qualification.

(DMT 303/221/77)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

145—Guns—OQF 40/60 and Above—Contamination of Bores and Maintenance

(DCI (RN) 134/1967)

- Gun* All calibres 40/60 and above (excluding aircraft).
2. *Information* .. Numerous reports have been received of contamination in gun bores and chambers with a green scale, after using preservative PX 4. Analysis shows that the scale is a corrosive deposit arising from firing residues and not primarily caused by PX 4. For complete protection when using this preservative, it is essential for all surfaces to be free of corrosive residues and products of combustion, which is difficult to achieve under Service conditions. Use of PX 4 is therefore to be discontinued as a gun preservative.
3. *Action necessary* .. (a) As from the date of this order, OM 65 is to be used for protection of bores and chambers of all mounted guns in service.
- (b) Attention is drawn to BR 292, Chapter 32, Paragraph 28a, regarding sponging out, in particular after firing.
- (c) Spare 40/60 barrels are protected internally with PX 19, while barrels of 3-in. and above are preserved with PX 9 sprayed on. Re-preservation of 40/60 barrels may be undertaken by ships' staff, and LG 280 used as an alternative if PX 19 is not readily available.
- (d) Reference should be made to the instructions in BR 292, Chapter 32, Paragraphs 47 to 50, for examination and maintenance of spare barrels.
4. *Publications* .. BR 292 and relevant gun handbooks will be amended to include these instructions.
5. Navy Order 324 of 1965 is hereby cancelled.

(Navy Order 324 of 1965)

(DWE 726/251/271)

UNCLASSIFIED

146—Naval Stores—Paints, Oil, Greases, Inflammables (Class Groups 0442/0474/0475)—Re-identification 10 Defence Stock Numbers

The following pattern numbers have been re-identified to Defence Stock Numbers and are to be transferred as indicated hereunder—

Old Identification	New Identification	Description	Container Capacity	ABR 19 Code or Colour	DQ
0442 1168	8030 66-023-3110	CORROSION PREVENTIVE COMPOUND	5 Gal	—	DM
0442 L59086	9150 66-023-3115	BRAKE FLUID, AUTOMOTIVE	4.5 Gal	—	DM
0442 L59120	8010 66-018-0667	PAINT, OIL (Blackboard)	1 Qt	Black	TI
0442 L59124	8010 66-013-0467	PAINT, OIL (Blackboard)	1 Qt	Green	TI
0442 L59126	5610 66-023-3010	WALKWAY COMPOUND, Non-slip	1 Gal	DK 84	TI
0442 L59128	5610 66-023-3009	WALKWAY COMPOUND, Non-slip	5 Gal	DK 84	DM
0442 L59130	5610 66-023-3011	WALKWAY COMPOUND, Non-slip	1 Gal	DK 78	TI
0442 L59133	5610 66-023-3012	WALKWAY COMPOUND, Non-slip	5 Gal	DK 78	TI
0442 L59137	5610 66-023-3013	WALKWAY COMPOUND, Non-slip	5 Gal	DK 80	DM
0442 L59140	5610 66-023-3014	WALKWAY COMPOUND, Non-slip	1 Gal	DK 79	TI
0442 L59146	5610 66-023-3015	WALKWAY COMPOUND, Non-slip	5 Gal	DK 79	DM
0442 L59160	8010 66-011-0893	PRIMER COATING	1 Gal	PR 5	TI
0442 L59163	8010 66-023-3004	PRIMER COATING	5 Gal	PR 5	DM
0442 L59165	8010 66-011-0474	PRIMER COATING	1 Gal	Pink	TI
0442 L59170	8010 66-023-4039	ENAMEL	1 Gal	EN 10	TI
0442 L59171	8010 66-023-2982	ENAMEL	1 Gal	Service	TI
0442 L59184	8030 66-023-3016	COATING COMPOUND, BITUMINOUS, SOL-VENT TYPE	1 Gal	Brown	TI
0442 L59188	8030 66-011-3420	COATING COMPOUND, BITUMINOUS, SOL-VENT TYPE	1 Gal	MIS 126	TI
0442 L59195	8010 66-023-3017	PAINT, STENCIL	5 Gal	Black	DM
0442 L59205	8010 66-011-0683	PAINT, STENCIL	1 Gal	DK 82	TI

Old Identification No.	New Identification No.	Class/Group	Pattern No.	Group Class	Catalogue No.	Description	Container Capacity	ABR 19 Code or Colour	DQ
0442	L59208	8010	66-011-0684	PAINT, STENCIL	.. .. .	1 Gal	DK 81	TI
0442	L59210	8010	66-023-3018	PAINT, STENCIL	.. .. .	5 Gal	DK 81	DM
0442	L59211	8010	66-011-4513	PAINT, STENCIL	.. .. .	1 Qt	DK 83	TI
0442	L59212	8010	66-011-0679	PAINT, STENCIL	.. .. .	1 Gal	DK 83	TI
0442	L59213	8010	66-023-3020	PAINT, STENCIL	.. .. .	5 Gal	DK 83	DM
0442	L59217	8010	66-023-3019	ENAMEL, HEAT RESISTING	.. .. .	1 Pt	HR 47	TI
0442	L59219	8010	66-013-1934	ENAMEL, HEAT RESISTING	.. .. .	1 Gal	HR 47	TI
0442	L59221	8010	66-023-3021	ENAMEL, HEAT RESISTING	.. .. .	5 Gal	HR 47	DM
0442	L59224	8010	66-023-3022	ENAMEL, HEAT RESISTING	.. .. .	1 Pt	HR 46	TI
0442	L59226	8010	66-013-1933	ENAMEL, HEAT RESISTING	.. .. .	1 Gal	HR 46	TI
0442	L59228	8010	66-023-3023	ENAMEL, HEAT RESISTING	.. .. .	1 Gal	Cream	TI
0442	L59230	8010	66-018-5125	ENAMEL, HEAT RESISTING	.. .. .	1 Gal	HR 45	TI
0442	L59235	8010	66-010-3939	ENAMEL	.. .. .	1 Pt	EN 14	TI
0442	L59236	8010	66-010-0002	ENAMEL	.. .. .	1 Gal	EN 14	TI
0442	L59238	8010	66-023-2980	ENAMEL	.. .. .	1/2 Pt	EN 10	TI
0442	L59241	8010	66-010-0004	ENAMEL	.. .. .	1 Gal	EN 10	TI
0442	L59244	8010	66-023-2981	ENAMEL	.. .. .	1/2 Pt	EN 11	TI
0442	L59247	8010	66-011-2238	ENAMEL	.. .. .	1 Gal	EN 11	TI
0442	L59252	8010	66-010-3957	ENAMEL	.. .. .	1 Pt	EN 13	TI
0442	L59255	8010	66-010-0009	ENAMEL	.. .. .	1 Gal	EN 13	TI
0442	L59260	8010	66-023-2984	ENAMEL	.. .. .	1/2 Pt	EN 20	TI
0442	L59264	8010	66-023-2985	ENAMEL	.. .. .	1/2 Pt	EN 18	TI
0442	L59267	8010	66-010-0014	ENAMEL	.. .. .	1 Gal	EN 18	TI
0442	L59272	8010	66-023-2986	ENAMEL	.. .. .	1/2 Pt	EN 15	TI
0442	L59276	8010	66-023-2987	ENAMEL	.. .. .	1/2 Pt	EN 12	TI
0442	L59279	8010	66-010-0016	ENAMEL	.. .. .	1 Gal	EN 12	TI
0442	L59283	8010	66-023-2988	ENAMEL	.. .. .	1/2 Pt	EN 17	TI
0442	L59287	8010	66-023-2989	ENAMEL	.. .. .	1/2 Pt	EN 16	TI
0442	L59290	8010	66-023-2990	ENAMEL	.. .. .	1 Gal	EN 16	TI
0442	L59294	8010	66-023-3024	ENAMEL (Semigloss)	.. .. .	1/2 Gal	Black	TI
0442	L59295	8010	66-023-3025	ENAMEL (Semigloss)	.. .. .	1 Gal	Black	TI
0442	L59296	8010	66-023-3026	ENAMEL (Semigloss)	.. .. .	5 Gal	Black	DM
0442	L59299	8010	66-010-0025	ENAMEL (Semigloss)	.. .. .	1 Gal	Service Brown	TI
0442	L59304	8010	66-010-0027	ENAMEL (Semigloss)	.. .. .	1 Gal	Deep Bronze Green	TI
0442	L59309	8010	66-023-3029	ENAMEL (Semigloss)	.. .. .	1 Gal	Dark Admiralty Grey	TI
0442	L59314	8010	66-010-0032	ENAMEL (Semigloss)	.. .. .	1 Gal	Golden Yellow	TI
0442	L59323	8010	66-023-3001	SURFACER, LIQUID	.. .. .	1 Pt	UC 71	TI
0442	L59326	8010	66-010-0114	SURFACER, LIQUID	.. .. .	1 Gal	UC 71	TI
0442	L59329	8010	66-023-3002	SURFACER, LIQUID	.. .. .	5 Gal	UC 71	DM
0442	L59335	8010	66-010-4702	SURFACER, LIQUID	.. .. .	1 Pt	UC 70	TI
0442	L59338	8010	66-010-0115	SURFACER, LIQUID	.. .. .	1 Gal	UC 70	TI
0442	L59341	8010	66-023-3003	SURFACER, LIQUID	.. .. .	5 Gal	UC 70	DM
0442	L59347	8010	66-023-4524	ENAMEL	.. .. .	1/2 Pt	EN 31	TI
0442	L59350	8010	66-010-0003	ENAMEL	.. .. .	1 Gal	EN 31	TI
0442	L59353	8010	66-023-2993	ENAMEL	.. .. .	5 Gal	EN 31	DM
0442	L59357	8010	66-011-2456	ENAMEL	.. .. .	1 Pt	EN 32	TI
0442	L59360	8010	66-011-2458	ENAMEL	.. .. .	1 Gal	EN 32	TI
0442	L59364	8010	66-023-2994	ENAMEL	.. .. .	1 Gal	EN 35	TI
0442	L59367	8010	66-023-2995	ENAMEL	.. .. .	5 Gal	EN 35	DM
0442	L59371	8010	66-023-2996	ENAMEL	.. .. .	1/2 Pt	EN 33	TI
0442	L59374	8010	66-011-2460	ENAMEL	.. .. .	1 Gal	EN 33	TI
0442	L59377	8010	66-023-2997	ENAMEL	.. .. .	5 Gal	EN 33	DM
0442	L59382	8010	66-010-3965	ENAMEL	.. .. .	1 Pt	EN 36	TI
0442	L59385	8010	66-010-0013	ENAMEL	.. .. .	1 Gal	EN 36	TI
0442	L59388	8010	66-023-2998	ENAMEL	.. .. .	5 Gal	EN 36	DM
0442	L59396	8010	66-010-3973	ENAMEL	.. .. .	1 Pt	EN 30	TI

Old Identification No.		New Identification No.		Description	Container Capacity	ABR 19 Code or Colour	DQ
Class/Group	Pattern No.	Group Class	Catalogue No.				
0442	L59399	8010	66-010-0017	ENAMEL	1 Gal	EN 30	TI
0442	L59402	8010	66-023-2999	ENAMEL	5 Gal	EN 30	DM
0442	L59406	8010	66-023-3000	ENAMEL	½ Pt	EN 34	TI
0442	L59407	8010	66-010-3975	ENAMEL	1 Pt	EN 24	TI
0442	L59409	8010	66-010-0018	ENAMEL	1 Gal	EN 34	TI
0442	L59414	8010	66-010-0051	PAINT, OIL	1 Gal	FR 60	TI
0442	L59417	8010	66-023-3005	PAINT, OIL	5 Gal	FR 60	DM
0442	L59425	8010	66-023-3008	PAINT, OIL	1 Gal	FR 62	TI
0442	L59432	8010	66-023-3006	PAINT, OIL	1 Gal	FR 61	TI
0442	L59435	8010	66-023-3007	PAINT, OIL	5 Gal	FR 61	DM
0442	L59439	8010	66-013-2383	PAINT, OIL (Nonskid)	1 Gal	Black	TI
0442	L59442	8010	66-023-3031	PAINT, OIL	1 Gal	DK 76	TI
0442	L59445	8010	66-023-3032	PAINT, OIL	5 Gal	DK 76	DM
0442	L59450	8010	66-010-0048	PAINT, OIL	1 Gal	DK 75	TI
0442	L59458	8010	66-010-0050	PAINT, OIL	1 Gal	DK 77	TI
0442	L59453	8010	66-023-3033	PAINT, OIL	5 Gal	DK 75	DM
0442	L59544	8010	66-023-2983	ENAMEL	1 Gal	EN 19	TI
0442	L59627	8010	66-011-0893	PRIMER COATING	1 Gal	PR 5	TI
0442	L59706	8030	66-011-8621	CORROSION PREVENTIVE COMPOUND	1 Gal	—	TI
0442	L59712	8030	66-011-8058	CORROSION PREVENTIVE COMPOUND	4 Gal	—	DM
0442	L59718	8030	66-023-3035	CORROSION PREVENTIVE COMPOUND	44 Gal	—	DM
0442	L59719	6850	66-011-7284	INHIBITOR, CORROSION, PETROLEUM FUEL	1 Gal	—	TI
0442	L59720	6850	66-023-3034	INHIBITOR, CORROSION, PETROLEUM FUEL	44 Gal	—	DM
0442	L59726	8030	66-022-9298	CORROSION PREVENTIVE COMPOUND	4 Gal	—	DM
0442	L59925	6850	66-023-3111	DRY CLEANING SOLVENT	4 Gal	—	DM
0474	L55184	9620	66-023-3117	GRAPHITE, DRY	1 Lb	—	TI
0474	L55220	9150	66-017-1445	GREASE, AUTOMOTIVE	1 Lb	—	TI
0474	L55222	9150	66-019-0023	GREASE, AUTOMOTIVE	5 Lb	—	TI
0474	L55294	8030	66-023-3116	CORROSION PREVENTIVE COMPOUND	1 Lb	—	TI

0474	L55296	8030	66-011-8054	CORROSION PREVENTIVE COMPOUND	5 Lb	—	TI
0474	L55300	8030	66-011-8052	CORROSION PREVENTIVE COMPOUND	5 Lb	—	TI
0474	943-9814 (L1)	9150	66-023-3113	GREASE BALL AND ROLLER BEARING	1 Lb	—	TI
0474	943-9814 (L2)	9150	66-023-3114	GREASE BALL AND ROLLER BEARING	5 Lb	—	TI
0475	L56389	9150	66-011-8045	LUBRICATING OIL, GEAR	4 Gal	—	TI
0475	L56390	9150	66-019-0019	LUBRICATING OIL, GEAR	45 Gal	—	DM
0475	L56403	9150	66-023-3118	LUBRICATING OIL, GENERAL PURPOSE	1 Pt	—	TI
0475	L56404	9150	66-023-3119	LUBRICATING OIL, GENERAL PURPOSE	1 Gal	—	TI
0475	L56405	9150	66-023-3120	LUBRICATING OIL, GENERAL PURPOSE	4 Gal	—	DM
0475	L56490	8030	66-016-5727	CORROSION PREVENTIVE COMPOUND	1 Gal	—	TI
0475	L56513	8030	66-023-9255	CORROSION PREVENTIVE COMPOUND	4 Gal	—	DM
0475	L56517	6850	66-011-8055	INHIBITOR, CORROSION, LUBRICATING OIL	4 Gal	—	DM

2. In the re-identification process, the denomination of quantity has been amended to "Tin" and "Drum", in lieu of pints and gallons.

3. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DNS 512/51/85)

UNCLASSIFIED

147—Stockings, White, Stretch Type—Introduction

Stretch type woollen/nylon white stockings have been adopted in the RAN for issue on repayment as an alternative to white woollen stockings, Catalogue Nos. 23301-6, and white stretch stockings, nylon, Catalogue No. 23272.

- The stockings will be maintained in two sizes only as follows—
Small—Corresponding to sizes 9½, 10 and 11.
Large—Corresponding to sizes 11, 11½ and 12.
- Supplies are available on demand from the Royal Edward Victualling Yard and will be accounted for in Group Class V 2 under the following descriptions—
Catalogue No. 23274—Stockings, men's, stretch, white, small.
Catalogue No. 23275—Stockings, men's, stretch, white, large.
- The issuing price will be 64 cents per pair.
- White woollen stockings, Catalogue Nos. 23301-6, are to continue to be utilised for all gratuitous issues.
- ABR 93, Part 1, Appendix 7, and Part II, Section 2, Scales 3 (b) and 3 (f), will be amended.

(D of V 917/76/72)

UNCLASSIFIED

148—Stores General (Group Class 5307)—Studs—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN	
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
5307	00-706-4191	STUD	5815	00-706-4191

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/51/315)

UNCLASSIFIED

149—Stores General (Group Class 5340)—Miscellaneous Hardware—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN	
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
5340	00-325-7934	BUSHING, SLEEVE	3120	00-325-7934

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 505/51/135)

UNCLASSIFIED

150—Stores General (Group Class 5820)—Radio and Television Communication Equipment, Except Airborne—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN	
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
5820	00-665-3371	OSCILLATOR FREQUENCY ..	5895	00-665-3371

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 518/51/1294)

UNCLASSIFIED

151—Stores General (Group Class 5821)—Radio and Television Communication Equipment Airborne—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN	
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
5821	00-665-0781	CAVITY, TUNED	5820	00-665-0781

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/59/907)

UNCLASSIFIED

152—Stores General (Group Class 6145)—Wire and Cable, Electrical—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN	
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
6145	00-112-8629	CABLE, POWER	6145	00-940-8707

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/73/297)

UNCLASSIFIED

153—Stores General (Group Class 6250)—Ballasts, Lampholders and Starters—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN		Item Name	New FSN	
Group Class	Catalogue Number		Group Class	Catalogue Number
6250	00-033-6651	LAMPHOLDER	6250	00-939-8126

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/75/141)

UNCLASSIFIED

154—Stores General (Group Class 9510)—Bars and Rods, Iron and Steel—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN		Item Name	New FSN	
Group Class	Catalogue Number		Group Class	Catalogue Number
9510	00-198-7963	STEEL BAR, CARBON	9510	00-596-2065

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 505/61/255)

Section 5**BOOKS, CORRESPONDENCE, FORMS AND STATIONERY**

UNCLASSIFIED

155—Official Forms—Method of Numbering

A functional numbering system is being adopted in order to simplify identification and control of Departmental forms. The system involves the use of a primary alphabetic character to identify the main function of the form, a secondary alphabetic character to identify a further functional dissection, and sequential numerals to identify the individual form. Forms used by EDP will be numbered from 1-99 and non-EDP forms from 100 onwards. An appendix is attached showing alphabetic characters and the functions which they denote. The secondary classifications may be expanded as the need for additional dissections arises.

2. Method of Implementation

The Director O & M will be responsible for the allocation of functional numbers to Departmental forms. The numbers will be allocated to existing forms progressively as they are referred to O & M for review or reprint, and to new forms as they arise. New and changed numbers will be included in ABR 5062, Catalogue of Forms, at

regular intervals. Should ships order renumbered forms under their old number, SNSO will automatically issue the correct form. A cross index system will be included in the Catalogue of Forms so that forms which have been renumbered will be shown with the new number alongside the old one.

The Catalogue will contain three sections—

- for existing forms not yet changed to functional numbers;
- the index referred to above;
- a list of all new and renumbered forms in functional and numerical order. This section will be printed on yellow paper so that it will be easily distinguished.

3. It will not be possible to renumber some forms, common inter-service forms for example, and these will be listed separately under their appropriate function.

4. The heads of branches or directorates (as appropriate) will be advised of the proposed new form number when they are asked for comments before forms are reprinted. When such advice is received it will be their responsibility to initiate any necessary amendment action to manuals, ABR's, etc., in which references to the old form number occur.

APPENDIX

Primary	Function	Secondary	Sub-function
C	Communications and Administrative Services	A	Acknowledgment Cards
		E	Envelopes
		L	Letterheads
		M	Messages
		R	Registry
		L	Library
F	Financial	A	Accounting
		B	Ships Accounts
		C	Costing
		L	Allotments
		N	Naval Pay
		S	Salaries (Civilian)
		T	Audit
		W	Wages (Civilian)
		C	Classified Papers
K	Security	E	Personnel
		P	Property/Goods
O	Operations	A	Air
		M	Mine and Torpedo Countermeasure
		N	Navigation
		S	Surface Weapons
		U	Underwater Weapons
		A	Administrative
P	Personnel	B	Movements
		D	Discipline
		E	Education and Training
		H	History
		M	Medical
		P	Reporting
		R	Recruiting

RESTRICTED

155

18

<i>Primary</i>	<i>Function</i>	<i>Secondary</i>	<i>Sub-function</i>
S	Supply.. ..	A	Accounting
		D	Inventory
		G	General
		I	Inspection
		O	Procurement
		S	Stock
		T	Transportation
T	Technical	X	Provisioning
		A	Air
		C	Communications
		E	Electrical
		F	Mechanical
		G	General
		H	Hull
		I	Inspection
		M	Maintenance
		N	Navigation Equipment
		P	Planning
L	Labels and Miscellaneous	S	Hydrographic/Oceanographic
		T	Trials
		W	Weapons
		B	Labels
		P	Posters
		G	General Use
		M	Meteorology

(D O & M 464/1/37)

16/02/67 7-4-67

ANO 156/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
6th April, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

UNCLASSIFIED
 c.v. 28/68
 refers

Section 2
PERSONNEL

535/67 refers

787/68 refers

156—Supplementary List Officers—Entry, Training and Promotion

The conditions of service for officers on the Supplementary List have been reviewed and the revised conditions for all branches of the Supplementary List are promulgated for information and necessary action.

2. The aim of the review has been to reduce anomalies between branches of the Supplementary List to a minimum and to produce a common promotion scheme up to the rank of Lieutenant-Commander, which will be comparable to the existing General List Scheme.

3. This order is divided into two parts. Part I details the conditions of service of Midshipman Entry Officers on the Supplementary List and Part II details the conditions of service of Direct Entry Officers on the Supplementary List.

4. Special instructions for each branch are contained in the appendixes.

PART I

Midshipman Entry

5. The following branches within the Supplementary List are open to Midshipman Entry Officers—

- (a) *Fleet Air Arm*—Officers of the Fleet Air Arm Branch are employed as Pilots, Observers and Air Traffic Control Officers. While serving on the Supplementary List, Officers will normally be employed in aviation duties;
- (b) *Seaman Branch*—Officers of the Seaman Branch are employed in General Service duties and may sub-specialise in submarines, clearance diving, hydrographic surveying or aircraft direction;
- (c) *Supply and Secretariat Branch*—Officers of the Supply and Secretariat Branch are employed on cash and accounting duties, pay, catering, Naval and Air Stores and secretarial duties.

6. **Sources of Entry**—Officers to be trained for the Supplementary List (Midshipman Entry) are selected from the following sources—

- (a) From shore;
- (b) Sailors from the Fleet, including Topmen and Upper Yardmen;
- (c) transfers from General List Midshipmen and Cadet Midshipmen.

7. Qualifications for Entry

- (a) Age is to be over 17 years and under 23 years (24 years for aircrew entrants) on the first day of the month of entry;
- (b) the minimum education standard required is passes in Mathematics and English in the pre-matriculation year with three other subjects studied to the same level. For aircrew entrants, a pass in Physics to the above standard is desirable;

(c) Sailors from the Fleet must be recommended as CW candidates and either possess the qualifications as in 7 (b) or have achieved minimum 60 per cent. passes in the RAN HET in four subjects, including English Expression, Practical Mathematics, and for Aircrew, either Mechanics or Magnetism and Electricity. (Similar passes in the RN HET or GCE (O) in four subjects will be regarded as equivalent). They will retain their former pay entitlement.

8. **RANC Transfers**—Cadet Midshipmen who fail to reach the required standard at the RANC, may be given the opportunity to transfer to the Supplementary List as follows—

(a) *Junior Entry on Completion of Second Year—*

- (i) To Seamen—following March entry for Phase I training;
- (ii) To Aircrew—following March entry for Basic Aircrew Training Course;
- (iii) To Supply and Secretariat—following March entry for Basic Supply Course.

(b) *Junior Entry on Completion of Third Year and Senior Entry on Completion of First Year—*

- (i) To Seamen—current Phase II training, i.e., join up with previous SL intake;
- (ii) To Aircrew—first appropriate aircrew training course. Same seniority as in (i) above;
- (iii) To Supply and Secretariat—following year's Basic Supply Course (interim period to be utilised as required by HMAS CERBERUS). Seniority and pay will be aligned with contemporary ex-RANC officers transferred to Seaman or Aircrew. This adjustment will be made on promotion to Acting Sub-Lieutenant.

9. **Promotion**—Promotion will be subject to recommendation and examination when applicable. Officers will be eligible by seniority and service as follows—

(a) *Midshipman to Acting Sub-Lieutenant*—Two years seniority as a Midshipman, subject to successfully passing the Midshipman's examination, or award of Flying Badge or completion of Air Traffic Control Training as applicable. When a Midshipman has not completed his training within two years, he will be promoted to Acting Sub-Lieutenant on completion of training and his seniority will be backdated (but not for pay) to two years after commencement of training;

(b) *Acting Sub-Lieutenant to Sub-Lieutenant—*

- (i) Aircrew Officers—one years seniority as Acting Sub-Lieutenant and completion of OFS training;
- (ii) Seaman Officers—one years seniority as Acting Sub-Lieutenant and the award of a Full or Restricted Bridge Watchkeeping Certificate and Ocean Navigation Certificate;

(iii) Supply Officers—one years seniority as Acting Sub-Lieutenant;

(iv) Air Traffic Control Officer—one years seniority as Acting Sub-Lieutenant;

(c) *Sub-Lieutenant to Lieutenant*—Three years ten months from date of promotion to Acting Sub-Lieutenant, adjusted by time gained or lost, and for Seaman Officers the award of a full Bridge Watch-keeping Certificate;

(d) *Lieutenant to Lieutenant-Commander*—Eight years seniority as Lieutenant;

(e) *Lieutenant-Commander to Commander*—By selection.

10. **Time Gained Towards Promotion to Lieutenant**—A maximum of sixteen months can be gained towards seniority in the rank of Lieutenant of which a maximum of eight months may count towards pay seniority. Time gained (or lost) will be awarded as shown in the appendixes.

11. **Periods of Service**—Officers will be granted a seven-year Short Service Commission on the Supplementary List of the Royal Australian Navy on being promoted to Acting Sub-Lieutenant, to be followed by five years on the Emergency List.

12. On completion of their seven years Short Service, officers may, subject to the requirements of the Service, extend their service by periods of four years.

13. **Permanent Commissions**—Permanent Commissions on the Supplementary List will be granted to Aircrew Officers, subject to the requirements of the Service and may be offered to Supply and Secretariat Officers, again subject to the requirements of the Service.

14. Supplementary List Officers may be offered transfer to the General List. Officers will not be eligible for selection for Permanent Commissions on the Supplementary List or the General List before being promoted to the rank of Lieutenant (SL).

15. **Failures—General**—Officers who at any stage of their training, fail to reach the required professional standard and are not backclassed or permitted to transfer to another branch or category, will be discharged to shore, appointment terminated; or in the case of sailors promoted from the Fleet, may be given the option of entering a fresh engagement in their former categories.

16. The Authorities concerned are to forward to the Naval Board, recommendations for transfer, termination of appointment or engagement in former sailor category, and the officer's wishes in this regard.

17. **DFRB and Gratuity**—Officers will contribute to the DFRB Fund during service and will be eligible for retirement, death or invalidity benefits. Officers who are discharged before reaching retiring age will receive a refund of their DFRB contributions. Officers will be eligible, on completion of their Short Service Commissions, and subsequent enrolment on the Emergency List, to be paid a gratuity of \$100 per annum in respect of each completed year of Short Service. Officers who, when requested, refuse to be enrolled on the Emergency List, will be eligible to be paid a gratuity of \$60 per annum. Where an officer does not complete his Short Service Commission, he will not normally be paid a gratuity.

PART II

Direct Entry

18. The following branches within the Supplementary List are open to Direct Entry Officers—

(a) Fleet Air Arm;

(b) Seaman;

(c) Supply and Secretariat;

(d) Engineering.

Direct Entry Officers in branches (a), (b) and (c) are employed as for Midshipmen Entry Officers. Officers in the Engineering Branch are employed within their Engineering Category.

19. **Qualifications**—Officers are entered under the Direct Entry Scheme from University Graduates, Diploma holders, Reserve Officers, selected officers from Commonwealth and Foreign Navies, other Services and re-entries. The qualifications for the various branches are detailed in the appendixes. (It should be noted that provision also exists for University Graduates to be appointed on entry, direct to the Engineering and Supply and Secretariat Branches of the General List.) Officers from other Services must be under 35 years of age on entry. Officers will be entered on probation. Officers requiring courses or certificates to become qualified officers will also be appointed provisionally.

20. **Rank and Seniority**—Rank and seniority on entry will be as follows—

(a) *University Graduates and Diploma Holders*—

(i) If under 23½ years, Sub-Lieutenant;

(ii) If over 23½ years, Lieutenant.

(b) *Reserve Officers*—Rank and seniority on entry will be determined by the Naval Board, having regard to qualifications and previous service.

(c) *Officers from other Services*—Rank and seniority will be assessed by the Naval Board.

21. **Promotion—Graduate and Diploma Entries**—Promotion will be subject to recommendation and officers will be eligible by seniority and service as follows—

(a) *Sub-Lieutenant to Lieutenant*—On reaching the age of 23½ years;

(b) *Lieutenant to Lieutenant-Commander*—On reaching the age of 31½ years or on achieving five years seniority in the rank of Lieutenant, whichever is the later;

(c) *Further Promotion*—By selection.

22. **Promotion—Other Direct Entry Officers**—As for the Midshipman Entry.

23. **Periods of Service**—These are given in the relevant appendixes.

24. **Permanent Commissions**—Direct Entry Supplementary List or Short Service Commission officers may be given the opportunity to transfer to Permanent Commissions on the Supplementary List or General List subject to the requirements of the Service.

25. **DFRB and Gratuity**—The rules for DFRB contributions and Gratuity for Direct Entry officers apply as for the Midshipman Entry, Paragraph 17.

APPENDIX A
Fleet Air Arm—Officers
PART I
Midshipman Entry

There are normally two intakes per year for candidates entered for pilot or observer training. There are normally four Pilot Courses and four Observer Courses each year.

2. On entry, Midshipmen undergo Basic Aircrew Training Course Phase I of approximately seventeen weeks duration at HMAS CERBERUS. Thereafter pilot and observer training will be as follows—

3. **Pilots**—Normally all pilots undergo the full fixed-wing RAAF Flying Training Course as follows—

- (a) eight weeks Initial Training School (RAAF, Point Cook);
- (b) 24 weeks Basic Flying Training School (RAAF, Point Cook);
- (c) 22 weeks Advanced Flying Training School (RAAF, Pearce).

4. This schedule may be altered with the introduction of new training aircraft. On satisfactory completion of Advanced Flying Training School, pilots will be provisionally awarded the Flying Badge.

5. **Operational Flying School**—On satisfactory completion of AFTS, pilots will be selected for operational flying training in fighters, fixed-wing ASW aircraft or helicopters, which they will undergo at RAN Air Station, Nowra. On satisfactory completion of operational flying training the award of the Flying Badge will be confirmed.

6. **Observers**—Observers normally undergo Phase II of Basic Aircrew Training of approximately eight weeks at HMAS CERBERUS before undergoing eighteen weeks Basic Observer Training, at present carried out at RNAS Lossiemouth, Scotland. On satisfactory completion of Basic Observer Training, observers are selected for ASW operational flying training in fixed-wing aircraft or helicopters. Observers will be provisionally awarded the Flying Badge on completion of Operational Flying School Training Part I and the award will be confirmed on completion of OFS Training Part II.

7. **Air Traffic Control Officers**—Air Traffic Control Officers will normally be selected from students who are suspended from training and selection will largely depend upon requirements of the Service. Air Traffic Control training will normally be done at RAAF, East Sale. Two courses of twenty weeks duration are conducted each year.

8. **Pilots—Failures on Course**—Student Pilots who fail a course or part of a course are liable to be suspended from pilot training. Should a student be suspended from pilot training, he may be selected to train as an Observer or as an Air Traffic Control Officer, or he may be permitted to transfer to the Seaman Branch if he is a recommended volunteer.

APPENDIX A—continued

9. **Observers—Failures on Course**—Student Observers who fail a course or part of a course are liable to be suspended from observer training. Should a student be suspended from observer training, he will not be permitted to train as a pilot unless there are exceptional circumstances and he is a volunteer. However, he may be selected to train as an Air Traffic Control Officer, or he may be permitted to transfer to the Seaman Branch.

10. **Reports**—Reports on duplicate pages of Forms AE 190A are to be rendered by the Commanding Officer or Senior Naval Officer on completion of each stage of training as follows—

- (a) HMAS CERBERUS;
- (b) RAAF, Point Cook;
- (c) RAAF, Pearce;
- (d) RN Air Station, Lossiemouth (Observers only);
- (e) RAN Air Station, Nowra;
- (f) HMAS MELBOURNE (Pilots only).

11. The name of any aircrew officer or Air Traffic Control Officer undergoing training, who fails to maintain the expected standard of conduct, is to be reported by signal to the Naval Board, followed by a written report. Failures professionally by students are to be similarly reported.

12. Preliminary Graduation Reports are to be forwarded six weeks before expected completion of—

- (a) BFTS;
- (b) AFTS;
- (c) Basic Observer Course;
- (d) Observer OFS Part I;
- (e) ATC training.

Reports are to include—

- (a) Names of probable graduates;
- (b) Names of marginal graduates;
- (c) Forecast completion dates;
- (d) Personal preferences and recommendations for OFS training (AFTS and Basic Observer Course only).

Graduation signals are to be released on days of graduation.

13. **Flying Pay**—Students are eligible for flying pay while undergoing Pilot or Observer Flying training, but cease to be eligible when they are suspended from flying training. On award of provisional Flying Badge, a Midshipman who is ineligible by time for promotion will receive the same rate of flying pay as an Acting Sub-Lieutenant.

APPENDIX A—continued

14. **Time Gained**—Time gained towards seniority as a Lieutenant (SL) will be awarded as follows—

		1st Class Pass 80 per cent.	2nd Class Pass 65 per cent.
<i>Pilots</i>			
BATC	Academics	3 months	1½ months
ITS	Academics	1 month	½ month
BFTS	Academics	2 months	1 month
	Flying	2 months	1 month
AFTS	Academics	2 months	1 month
	Flying	2 months	1 month
OFS I	Academics	1 month	½ month
	Flying	1 month	½ month
OFS II	Academics	1 month	½ month
	Flying	1 month	½ month
<i>Observers</i>			
BATC I	Academics	3 months	1½ months
BATC II	Academics	1 month	½ month
BFTS	Academics	2 months	1 month
	Flying	2 months	1 month
OFS I	Academics	2 months	1 month
	Flying	2 months	1 month
OFS II	Academics	2 months	1 month
	Flying	2 months	1 month
<i>ATC</i>			
BATC		3 months	1½ months
BATC II or ITS		1 month	½ month
		<i>Distinction</i>	<i>Credit</i>
ATC Training		12 months	6 months

15. **Failures**—Students failing to obtain 50 per cent of the total marks for the course will be regarded as having failed. Students failing to obtain 50 per cent in one or more subjects will be penalised by the loss of one month's time for each subject and will be required to sit for the tests again. A second failure in any subject will entail liability to disposal as shown in Paragraph 15 of the navy order.

16. **Failures in air work** will not incur loss of time. Where a student has transferred from one or more courses, his total time gained will be that appropriate to the category in which he graduated. However, all failures in academic subjects will still incur loss of time.

PART II

Direct Entry

17. **Direct Entry—Aircrew Officers (except Reserve Officers)**—These officers will invariably be qualified Pilots, Observers and Air Traffic Control Officers. The necessary conversions to type and Operational Flying School training will normally be done at RAN Air Station, Nowra.

APPENDIX A—continued

18. The period of service offered to these officers on the Supplementary List will depend upon seniority, record of service and qualifications and will be for a minimum period of four years, but may be for seven years. In special circumstances, a Permanent Commission on entry may be offered.

19. **Reserve Officers**—Reserve Officers require the same qualifications for entry as candidates for the Midshipman Entry as detailed in Paragraph 7 (a) and (b) of the navy order.

20. Reserve Officers will enter for full time service while undergoing training. They will be awarded rank as follows—

Reserve Rank	PNF Rank
(a) Sub-Lieutenant	Acting Sub-Lieutenant (SL)
(b) Acting Sub-Lieutenant	Midshipman (SL)

Initially, Reserve Officers will undergo an appropriate period of Academic training at HMAS CERBERUS before commencing Initial Training School with the RAAF, or BATC Phase II Observer Training and thereafter will follow the training programme laid down for the Midshipman Entry.

21. Concurrently with the award of Flying Badges, Reserve Officers will be granted a seven year Short Service Commission on the Supplementary List. The seven year Short Service Commission will be followed by five years on the Emergency List.

22. **Time Gained**—The rules for gaining or losing time for seniority purposes apply as for the Midshipman Entry, except that no time will be gained during the period of academic training at HMAS CERBERUS.

23. A Reserve Officer who fails to qualify at a Pilot, or Observer, may be permitted to transfer to the Seaman Branch of the Supplementary List, or he may be withdrawn from training. A Reserve Officer who is withdrawn from training will resume his Reserve status.

APPENDIX B

Seaman Officers

PART I

Midshipman Entry

There is normally one intake each year in March.

2. Midshipmen will undergo training as follows before being posted to Complement Billets—

Phase I—Duration 33 weeks

Basic Training at HMAS CERBERUS—18 weeks
Navigation Training at HMAS WATSON—4 weeks
Initial Sea Training aboard the Training Ship—11 weeks

Phase II—Duration 52 weeks

Sea Training in the Fleet

Phase III—Duration 13 weeks

Specialist Courses in Communication, Gunnery, Supply and Secretariat, AIO, TAS, Air and Meteorology.

APPENDIX B—continued

3. **Basic Training at HMAS CERBERUS**—Basic Training is designed to give Midshipmen on entry, a Service Indoctrination that is sufficient to enable them to derive full benefit from further training at sea during Phases I and II. This is achieved by providing a general Naval and Academic background with particular emphasis on Seamanship and Navigation.

4. **Navigation Training at HMAS WATSON**—Duration four weeks. Further Navigation training is carried out at HMAS WATSON. Practical Navigation training is given during initial sea training aboard the training ship.

5. **Initial Sea Training**—Duration eleven weeks. On completion of Basic and Navigation training, Midshipmen will join the training ship for a period of eleven weeks. Training ship time will introduce Midshipmen to life at sea. During this period, Midshipmen should consolidate knowledge gained in the classroom and experience the life of a sailor.

6. **Phase II—Sea Training**—Duration 52 weeks. The aims of Phase II training in the Fleet are—

- (a) To initiate officers in their duties by practical experience, particularly in their relations with sailors;
- (b) to enable them to qualify for Certificates of Competence; and
- (c) to give them the knowledge required by Seaman Officers of the work of all departments in a ship.

7. Midshipmen (SL) should be given increasing responsibility progressively, commensurate with their experience. It is for this reason that the Certificate of Competence can be granted half way through their time in the Fleet (see Paragraph 16).

8. The detailed syllabus is identical with that covered by General List Midshipmen. Adequate grounding will have been given during the year's training at HMAS CERBERUS. It is, therefore, intended that Midshipmen (SL) should learn more by experience than by formal instruction. This does not remove the need for lectures and for supervision by both officers and senior sailors.

9. Midshipmen (SL) should be assigned to the various departments of the ship for set periods, as well as doing normal ships' duties—watchkeeping, running boats, taking charge of working parties and divisional work. The following is a guide to the time which should be spent in each department—

Seaman .. .. .	..	..	..	..	..	Twenty weeks
Air .. .. .	..	..	..	..	..	Two weeks
Gunnery .. .. .	..	..	..	..	..	One week
TAS .. .. .	..	..	..	..	..	One week
Communications .. .. .	..	..	..	..	..	One week
ND .. .. .	..	..	..	..	..	One week
Engineering .. .. .	..	..	..	..	..	Nine weeks
Supply .. .. .	..	..	..	..	..	Four weeks
Submarines .. .. .	..	..	..	..	..	One week

This provides the opportunity for Midshipmen (SL) to learn at first hand about the work and problems of departments other than their own, and most important, about the sailors who serve in them. For some, this opportunity will never recur.

APPENDIX B—continued

10. Midshipmen (SL) will be posted initially to ships by the Naval Board for their Phase II sea training. Subsequent movements of Midshipmen (SL) between ships of the Fleet will be arranged by FOCAF.

11. **Phase III—Specialist Courses**—Duration thirteen weeks. Specialist courses will be conducted as follows—

HMAS CERBERUS ..	Communications .. .. .	..	..	2 weeks
	Gunnery .. .. .	..	..	2½ weeks
	Supply and Secretariat .. .. .	..	..	1½ weeks
HMAS WATSON ..	Action Information Organisation ..	..	..	3 weeks
	Anti-submarine Warfare .. .. .	..	..	3 weeks
HMAS ALBATROSS ..	Air and Meteorology .. .. .	..	..	1 week

12. **Journals and Sight Books**—Each Midshipman (SL) will be required to keep a Journal and a Sight Book; these books are to be produced at inspections and are to be sent to the Examining Board at the Midshipman's examination, together with the Commanding Officer's recommendation on the marks to be awarded for them.

13. The journal is intended to give Midshipmen (SL) practice in accurate reporting, in making informed comment and in English Expression.

14. **Form AE 190**—A Form AE 190 will be forwarded to FOCAF from HMAS CERBERUS for each Midshipman (SL) and is to be kept in accordance with the instructions contained therein. On completion of the Midshipman's training, the form is to be forwarded to Navy Office, Canberra.

15. **Certificates**—The following certificates (details of which are printed in Form AE 190) are required to be obtained by each Midshipman (SL) prior to the Midshipman's examination—

- (a) Certificate of Competence.
- (b) Certificate of completion of a set of astronomical observations. (Navy Order 323 of 1966, Section 7.)
- (c) Practical Signals Certificate.
- (d) Engineering Certificate.

Failure to gain Certificates (b), (c) and (d) will result in the loss of one month's seniority, for each failure. Failure to gain two or more Certificates may result in withdrawal from training.

16. **Certificates of Competence**—Of the certificates listed in Paragraph 15 above, the Certificate of Competence has special importance in the training of officers. It may be awarded to Midshipmen (SL) after not less than six months at sea. If the Certificate has still not been awarded at the time of the Midshipmen's examination, the reasons are to be reported to the Naval Board. A Midshipman (SL) who fails to obtain a Certificate of Competence during his year at sea will forfeit two months' seniority unless it is clearly shown that the Certificate was withheld for reasons outside his control. He will be required to obtain a Certificate of Competence before appointment to a Complement Billet.

APPENDIX B—continued

17. **Midshipmen's Examination**—Midshipmen (SL) are to be brought before an Examining Board convened as for Midshipmen (GL). This Board should be held in late October, in time for the results to reach Navy Office by 15th November. Midshipmen (SL) will be required to achieve similar standards to General List Midshipmen, but Examining Boards should take careful account of the types of ships in which they have served.

18. Marks are to be awarded as follows—

Duties of OOW and ORO	200
Rule of the Road	75
Practical Signals	50
Anchor Work and Rigging	75
Ship's Organisation	50
Divisional Officers Duties	75
Administration and Supply	75
Engineering	125
Journal	50
Sight Book	25
Service Marks	200
Total	1,000

To pass, 50 per cent of the total is required, with not less than 80 per cent in Rule of the Road and Practical Signals, and not less than 40 per cent in each other item.

19. **Service Marks**—A total of 200 is available to the Commanding Officer to award as service marks. They are to be assessed four times at approximately three-monthly intervals and recorded on Form AE 190. On each occasion marks are to be awarded out of a maximum of 50 and are to be awarded more for zeal, resourcefulness and reliability than for powers of leadership, which may still be latent in many Midshipmen (SL).

20. **Failures—Midshipmen's Examination**—A Midshipman (SL) who fails in not more than two subjects, is to be re-examined in each subject after not less than one month. If successful, only a Third Class Certificate is to be awarded regardless of the resultant total marks.

21. Failure to obtain 50 per cent of the total marks, or a failure in three or more subjects, or in any subject on re-examination, will lead to termination of the Midshipman's appointment to the Royal Australian Navy.

22. **Sickness**—If a Midshipman (SL) has lost instructional time during his training, through sickness or other causes beyond his control, which would prejudice his chances of passing his Midshipman's examination, application should be made to the Naval Board for postponement of this examination. Should a postponement be granted, promotion to Acting Sub-Lieutenant (SL) will not be made until the Midshipman has successfully passed his examination, but seniority as Acting Sub-Lieutenant (SL) will be backdated to two years as Midshipman.

APPENDIX B—continued

23. **Failures—Phases I and III**—Students failing to obtain passes in one or more subjects will be penalised by the loss of one month's time for each subject and will be required to sit for the tests again. A second failure in any subject will entail liability to disposal as shown in Paragraph 16 of the navy order.

24. **Time Gained**—Time gained towards seniority as a Lieutenant (SL) will be awarded as follows—

	Percentage	Certificate	Time Gained
<i>Phase I</i>			
HMAS CERBERUS	80	First Class	3 months
	65	Second Class	1½ months
	50	Third Class	Nil
HMAS WATSON	80	First Class	1 month
	65	Second Class	½ month
	50	Third Class	Nil
<i>Phase II (Midshipman's Examination)</i>			
	80	First Class	8 months
	65	Second Class	4 months
	50	Third Class	Nil
<i>Phase III—Special Courses</i>			
	80	First Class	4 months
	65	Second Class	2 months
	50	Third Class	Nil

25. **Reports during Midshipman's Time**—In order to plan postings as Acting Sub-Lieutenant (SL), reports on Forms AS 206 are to be rendered on completion of Phase II training.

26. **Bridge Watchkeeping Certificate—Full or Restricted**—Acting Sub-Lieutenants (SL) are required to gain a Full or Restricted Bridge Watchkeeping Certificate in accordance with current regulations before being confirmed in the rank of Sub-Lieutenant (SL). The certificate will state that the officer concerned—

"Has a sound knowledge of the duties of the Officer of the Watch at sea and in harbour, including measures necessary for the safety of the ship and is competent to take charge of a Watch at sea by Day and by Night." (" . . . in a Minesweeper and similar vessels" in a case of a Restricted Bridge Watchkeeping Certificate).

PART II

Direct Entry

27. Seaman Officers are entered directly to the Supplementary List from the following sources—

- (a) Reserve Forces.
- (b) Merchant Service
- (c) Other Navies.

28. Each application will be treated on its merits and the following factors taken into account—

- (a) Previous sea experience.
- (b) Qualifications.
- (c) Age.

29. Supplementary List Commissions will be for an initial period of seven years; a further period of four years service may be offered, depending on the requirements of the Service.

APPENDIX C

Supply and Secretariat Officers

PART I

Midshipman Entry

Supply Midshipmen (SL) will undergo the following initial training before being posted to fill Complemented Billets—

- (a) Indoctrination Course at HMAS CERBERUS—duration three weeks.
- (b) Basic Supply and Secretariat Course at HMAS CERBERUS—duration six months.
- (c) Practical Supply and Secretariat training in Ships and Establishments to complete a total of two years from date of entry.

2. **Basic Supply and Secretariat Course**—Officers will be awarded time gained towards seniority as a Lieutenant on their examination results in the Basic Supply and Secretariat Course as follows—

Percentage	Certificates	Time Gained
80	First Class	6 months
65	Second Class	3 months
50	Third Class	Nil

3. A Midshipman who fails to graduate from the Basic Supply and Secretariat Course, or who fails a part of any subject, will either be withdrawn from training, or re-examined after a period determined by the Naval Board. In the latter case, it will be normal for him to forfeit appropriate seniority, unless there are mitigating circumstances. This will be decided by the Naval Board.

4. **Form AE 190 (Su)**—A Form AE 190 (Su) will be forwarded to FOCAF from HMAS CERBERUS for each Midshipman (SL) and is to be kept in accordance with the instructions contained therein.

5. **Midshipman's Examination**—During the November prior to the completion of their practical Supply and Secretariat training, Midshipmen will sit for a written professional examination which will qualify them for promotion to the rank of Lieutenant. On their results in the examination, officers will be awarded time gained toward seniority as a Lieutenant as follows—

Percentage	Certificates	Time Gained
80	First Class	10 months
65	Second Class	5 months
50	Third Class	Nil

6. The syllabus of the examination, except for International Law, will be the same as, but the standard of knowledge required, less than, the professional examination for Lieutenant-Commander (SU). The syllabus for the International Law examination will be prepared by the Director of Naval Legal Service and this examination will be based on notes handed to Supply Midshipmen whilst undergoing the Basic Supply Course. Midshipmen will be expected to prepare themselves in all subjects by private study. Examination papers will be set and marked by the CST, HMAS CERBERUS, under the supervision of DFSD.

APPENDIX C—continued

7. Failure to obtain 50 per cent at the Midshipman's examination will lead either to withdrawal of the Midshipman from the Royal Australian Navy or to forfeiture of four months' seniority. A Midshipman who fails the examination may, if he is not withdrawn from the Service, be re-examined after four months, but may only be awarded a Third Class Certificate at the second attempt.

8. **Supply Charge and Advanced Secretariat Course**—The professional qualification for promotion to Lieutenant-Commander will be graduation from the Supply Charge and Advanced Secretariat Course or successful completion of the professional examination for Lieutenant-Commander (SU).

PART II

Direct Entry

9. **Qualifications for Entry**—University graduates in Arts, Commerce, Economics, Business Administration or Law, who will be under the age of 26 years on the date of entry, will be eligible for entry as Direct Entry Officers. (Applicants so qualified are also eligible for appointment to the General List on entry).

10. **Short Service Commission**—Direct Entry Officers will be granted a five year Short Service Commission from their date of entry, to be followed by five years service on the Emergency List. On completion of their initial five year Short Service, officers may extend their service by periods of four years, subject to the requirements of the Service.

11. Direct Entry Supply and Secretariat Officers will undergo the following initial training before being posted to Complemented Billets—

- (a) Indoctrination Course at HMAS CERBERUS—duration three weeks.
- (b) Basic Supply and Secretariat Course at HMAS CERBERUS—duration six months.
- (c) Practical Supply and Secretariat training in ships and establishments—duration six months.

12. **Supply Charge and Advanced Secretariat Course**—The professional qualification for promotion to Lieutenant-Commander will be graduation from the Supply Charge and Advanced Secretariat Course or successful completion of the professional examination for Lieutenant-Commander (SU).

APPENDIX D

Engineer Officers—Direct Entry

Ex-Naval Officers, Qualified Engineers, University Undergraduates and Technical College Students are eligible to apply for entry as Engineer Officers of the Royal Australian Navy on Short Service or Permanent Service Commissions. The conditions governing entry and service are set out below.

Eligibility for Commissions

2. Ex-Naval Officers (excluding Special Duties List Officers), Engineer Officers from the Royal Navy or other Commonwealth Navies are eligible for Permanent or Short Service Commissions on the Supplementary List or Permanent Service Commissions on the General List dependent upon their previous Naval Service.

APPENDIX D—continued

3. Qualified Engineers who are University Graduates or equivalent—
- Permanent Service Commissions on the General List—Mechanical, Aeronautical and Electrical Engineers;
 - Short Service Commissions on the Supplementary List—Mechanical, Aeronautical and Electrical Engineers,
- are eligible.
4. Qualified Engineers who hold Technical College Diplomas—
- Short Service Commissions on the Supplementary List—Mechanical, Aeronautical and Electrical Engineers are eligible;
 - Permanent Service Commissions on the Supplementary List—Mechanical, Aeronautical and Electrical Engineers,
- are eligible.
5. Undergraduates and Technical College Students—
- Undergraduates studying Mechanical, Aeronautical or Electrical Engineering are eligible to apply for a Permanent Commission on the General List, or Short Service Commission on the Supplementary List at any time during their three final years;
 - Technical College Students undergoing a full time Diploma course in Mechanical, Aeronautical or Electrical Engineering at a Technical College are eligible to apply for a Permanent or Short Service Commission on the Supplementary List during their final year.

Conditions of Entry

6. Applicants who are eligible in accordance with Paragraphs 2, 3 or 4, must satisfy the following conditions—
- Professional qualifications—
 - Qualified Engineers must possess a University degree or acceptable equivalent or a Technical College Diploma;
 - University Undergraduates and Technical College Students must have passed the prescribed examinations for each year of the course up to the date of application;
 - Age—
 - Qualified Engineers must be under 25 years of age;
 - Qualified Electrical Engineers must be under 27 years of age;
 - Undergraduates and Technical College Students must be under 25 years of age or, in the case of Electrical Students, under 27 years, on 1st March, following successful completion of their course.

Procedure on Entry

7. The titles of officers of the Supplementary List will carry the prefix Engineer or Electrical, e.g., Engineer-Lieutenant, and suffix (SL) followed by, as appropriate, (ME), (AE) or (WE), after the name.
8. Qualified Engineers—Successful applicants for Short Service Commissions will be entered in the probationary rank of Sub-Lieutenant if under 23½ years of age or Acting Lieutenant if over 23½ years. These conditions will also apply to successful applicants who are granted Permanent Commission.

APPENDIX D—continued

9. Undergraduates and Technical College Students—Successful applicants will be entered in the probationary rank of Midshipman (U), Acting Sub-Lieutenant (U) or Sub-Lieutenant (U) depending on whether they enter during their 2nd, 3rd or final year.
10. They will be posted to a Naval Establishment in the same area as the University or Technical College in which they are studying for completion of courses. An officer in the establishment concerned, is to be detailed personally to advise incoming officer candidates on matters of uniform clothing, service customs, marks of respect, pay and allowances procedure, service organisations and security arrangements.
11. During long vacations, officers will be required to undergo Naval training when compatible with the course syllabus.
12. Earnings from civil employment undertaken as part of training while in receipt of Service pay and allowances will be paid to Revenue to the extent of Service pay and allowances, the officer retaining any amounts in excess of the latter.
13. The Commanding Officer of an establishment in which a student officer is borne is to arrange for the results of examinations held during or at the conclusion of the University or Technical College course to be forwarded to the Naval Board as soon as results are known.
14. Immediately on completion of final examinations for the course, a Sub-Lieutenant (U) will be required to report to his Commanding Officer, who will inform Navy Office. The Sub-Lieutenant (U) will then proceed on fourteen days' leave, on completion of which he will be appointed for practical courses.
15. Members who fail in the final examinations or subsequent courses may be withdrawn from the Service on authority from the Naval Board.
16. Whilst completing courses at University or Technical College, Undergraduates or Technical College students will receive the pay and allowances laid down in Naval Pay Instructions. Board and lodging will be an officer's own responsibility. Commonwealth Rehabilitation Training Scheme benefits are to be terminated on being posted from shore to a Naval Establishment, this being the date from which pay and allowance will commence. Student officers are ineligible for assistance under the Commonwealth Scholarship Scheme.
17. A student officer will, at such time as the Naval Board decides, be provided with a minimum uniform outfit. The completion of the uniform outfit to the full scale for rank will be deferred until his first appointment for duty after completion of the course.
18. Fees, Text Books and Instruments—Fees which are essential for the completion of the course and which are listed hereunder will be paid by the Department—
- Lecture and demonstration fees;
 - Library fees;
 - Examination fees;
 - Supplementary examination fees for one subject only;
 - Tutorial fees (other than those University tutorials included within the course of lectures and covered by lecture fees) to an affiliated College, but only in special cases upon the recommendation of the University or Technical College;

APPENDIX D—continued

(f) Laboratory and experiment fees, including charges for materials, but only upon the recommendation of the University or Technical College authorities.

19. Fees which are listed hereunder will not be reimbursed—

- (a) Degree fees;
- (b) Union fees or fees in respect of any other student body;
- (c) Sports fees; and
- (d) Amounts in respect of any item not essential for the completion of the course.

20. Unless a student wishes to purchase his own text books, instruments, etc., for retention as private property, all necessary books, instruments, tools, etc., will be issued on loan to the officer during the course. Such issues will normally be made by the establishment to which appointed whilst doing the course.

21. Text books and other items of equipment will be issued only for the duration of the course, after which they will be returned to the establishment. Items which are only required for a part of the course will be returned when no longer required.

22. Information as to the books and instruments which will be required for the course should be given as early as practicable by the student to the Commanding Officer of the establishment to which he is attached. Requirements should, whenever possible, be listed in the body of a certificate from a member of the staff of the University or Technical College that the items are essential for the completion of the course. Local purchase of items which are not available in the establishment should normally be arranged by the Commanding Officer in the usual manner. This order should be quoted as authority on relevant documents.

23. In certain cases where time does not permit a book or other items being obtained from Naval sources, or where circumstances preclude local purchase, approval may be given by the Commanding Officer for a student to purchase the item privately. The student may then be reimbursed on production of a receipt covering the expenditure involved and a certificate from the University or Technical College that the item is a standard requirement for the course. Such items will be returned to the establishment when no longer required by the student.

24. Text books and instruments returned by a student on completion of the course or when no longer required, are to be retained by the Supply Officer for re-issue to other students as necessary. Particulars of any of these books and instruments held surplus to local requirements are to be reported to Navy Office so that arrangements for their use elsewhere may be made.

25. Books and instruments purchased in accordance with this order are to be taken on charge in the BR or Naval Store account, as appropriate, and issued on permanent loan to the student. Loss of, or damage to books, etc., should be dealt with on Form AS 126 in accordance with normal procedure.

26. **Training**—Direct Entry Engineer Officers on the Supplementary List will, on entry, undergo Introductory Courses appropriate to their categories. This training will extend from six weeks for Marine Engineer to twelve months for Weapon Electrical Engineer.

APPENDIX D—continued

27. Marine Engineers will be posted to sea going ships for practical engineering training and to obtain EOs Watchkeeping Certificates, on completion of introductory training. Air Engineer Officers will be posted to NAS, Nowra, for practical training to obtain Air Engineer Officers' Certificates.

28. Subject to recommendation, the basic date of confirmation in the rank of Lieutenant or Lieutenant-Commander will be—

- (a) For Engineer Officers of the ME Category—on award of the Engineer Officer's Watchkeeping Certificate or in the case of ex-Naval Officers or officers selected for categories other than Marine Engineering, on completion of six months in an effective appointment.
- (b) Weapon Electrical Engineer Officers—on completion of Naval Weapon Electrical Courses or in the case of ex-Naval Officers on completion of six months in an effective posting.

Periods of Service

29. **Short Service Commissions**—Qualified officers are required to serve for five years from the date of first posting, and student officers for five years from the first of March following completion of University or Technical College courses.

30. Short Service Commission Officers may be given the opportunity to transfer to Permanent Commissions subject to vacancies and suitability and to the possession of Certificates of Competence.

31. **Promotion**—Promotion of Direct Entry Officers will be as follows—

Midshipman (U) to Acting Sub-Lieutenant (U)	On 1st March in third year at University
Acting Sub-Lieutenant (U) to Sub-Lieutenant (U)	On 1st March in final year at University
Sub-Lieutenant (U) to Engineer Lieutenant (SL) (Provisional)	On 1st March after final year at University (see Note)
Engineer Lieutenant (SL) to Engineer Lieutenant-Commander (SL)	On attaining eight years seniority
Further promotion	By selection.

Note—Officers who are under the age of 23½ years on 1st March after graduation, will be appointed to the provisional rank of Engineer Sub-Lieutenant (SL) and will be promoted to Engineer Lieutenant (SL) on attaining that age.

32. Confirmation in rank will be effected on satisfactory completion of training courses or on award of necessary Engineer Officers Certificates, as appropriate.

(DOA 316/4/70)

(Navy Order 323 of 1966)

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Registrar

ANO's 157-169/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
17th April, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

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157—Registration and Identification of Commonwealth Vehicles

The Commonwealth Bureau of Census and Statistics has expressed concern at the number of instances where Departments are furnishing the Commonwealth Vehicle Registry with registration certificates containing insufficient information.

2. In view of the nature of the work and the classifications used by the Bureau it is necessary for them to have full details of each Commonwealth vehicle registered. This applies particularly to engine numbers, model numbers (where applicable) and chassis numbers. Such numbers should be stated in full including suffixes and/or prefixes in each case.

3. Care is to be taken when preparing applications for registration of Commonwealth vehicles that all required details are given.

(DNS 459/53/154)

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158—Safety Precautions—Carriage of Dangerous Articles by Passengers in Service Transport Aircraft and Civil Charter Aircraft

Restrictions applying to the carriage of certain items of equipment by passengers in service transport and civil charter aircraft are detailed in this order. The restrictions also apply to the carriage of the items in personal baggage.

2. **Portable Radios and other Transistorised Equipment**—These items are not to be used in the aircraft.

3. **Hearing Aids**—If worn, hearing aids are to be declared to the aircraft captain before take off.

4. **Compressed Gas Containers**—The carriage of gas containers filled with butane, propane, etc., is prohibited.

5. **Aerosol Containers**—The carriage of aerosol containers, including hair lacquer sprays, is prohibited.

6. **Cigarette Lighters**—Only cotton filled cigarette lighters are permitted. The carriage of filled butane lighters or lighters having an unpacked visible reservoir, usually plastic, are prohibited.

7. **Matches**—Small quantities of safety type matches, with a thick shank, are permitted.

8. **Privately Owned Firearms**—The carriage of privately owned firearms is prohibited except for sporting weapons which are subject to the following rules—

- (a) the authority of the sponsoring service movement staff is to be obtained;
- (b) the weapon is not to be packed in hold baggage;
- (c) before emplanement, the weapon is to be declared separately from other baggage to the movements or airline authority at the airfield;

(d) a declaration is to be made to the Customs authorities when the weapon is exported or imported; and

(e) the owner is responsible for obtaining the necessary import/export licences.

9. **Service Firearms**—Unless specially authorised the carriage of service firearms is prohibited.

10. **Explosives**—The carriage of all explosives, except safety ammunition, including fireworks of all descriptions and toy pistol caps is prohibited. A small quantity of privately owned safety class ammunition may be carried provided—

(a) the prior authority of the command operating the aircraft has been obtained;

(b) it is declared and produced separately from other baggage to the movement or airline authority at the emplaning airfield for separate stowage in the aircraft;

(c) it is packed in a securely closed, strong outer container of wood, metal or other solid material of such strength and construction that it cannot be broken, accidentally opened, become defective or insecure while being conveyed;

(d) the contents are to be clearly marked on the outside of the container and packed so as to prevent movement;

(e) the package must never exceed 20 kilograms (44-lbs); and

(f) the import licence or firearms certificate is produced to the Customs officials at the departure airfield. (See note.)

11. **Inflammables**—The carriage of all inflammable liquids and solids is prohibited.

12. **Mercury**—Carriage of mercury is prohibited.

13. **Potassium Chlorate (Chlorate of Potash)**—The carriage of potassium chlorate is prohibited.

14. **Other Articles**—When any doubt exists as to the safety of any other article for carriage by air it must either—

(a) not be taken; or

(b) declared to the movement or airline authority.

Note—Passengers availing themselves of this facility should acquaint themselves with the import regulations of the countries concerned, including those through which they will pass before reaching their destination, as the entry of ammunition may not always be permitted. Should the consignment be rejected for carriage by air the responsibilities for disposal will rest with the passenger.

15. RI will be amended.

(DNAP 177/201/20)

Section 2 PERSONNEL

UNCLASSIFIED

159—Posting, Compassionate Leave and Discharge Procedures

Navy Order 361 of 1966 is to be amended as follows—

Paragraph 86—

Delete the present paragraph and substitute the following—

Medical and Dental

86. Three months before a member is due for discharge the following action is to be taken—

(a) A dental examination is to be made and recorded on Form AM 190X "Monthly Dental Treatment Record" which is to be endorsed "Preliminary Discharge Examination" and any treatment required is to be completed prior to discharge. If normal dental facilities are not available at the time, the member is to be referred for examination and treatment as soon as these facilities are available. The provisions of Sub-paragraph (f) below are to be applied only in exceptional circumstances, e.g., facial fractures.

(b) The member is to be instructed to complete Form AM 146Z—"Medical Statement of an Officer or Sailor on Discharge".

(c) A full medical examination including X-ray examination of the chest (70-mm or larger film) is to be made and recorded on Form AF Med. 1—"Medical Examination Record".

(d) Any disability claimed or discovered is to be investigated and treated without delay.

(e) If it appears that the member will not be fit on the due date for discharge, and if the member so requests, application may be made for discharge to be deferred. The signal is to contain the following information—

(i) authority for discharge and due date for discharge;

(ii) nature of disability;

(iii) date member first became aware of disability;

(iv) date member first requested treatment of the disability;

(v) reasons for the time lag between dates given in (iii) and (iv);

(vi) where it is proposed to carry out the treatment;

(vii) anticipated duration of treatment.

(f) The onus is on the member to request service medical and dental treatment when a disability becomes apparent to him. The only type of case which will receive favourable consideration for retention is that in which it has been clearly established that the circumstances which prevent the member from being fit for discharge on the due date are beyond his control.

(MDG 333/3/1)

(Navy Order 361 of 1966)

UNCLASSIFIED

160—Provisional Promotion—Reversion and Re-engagement for Courses—ABR 10/64 Article 0214 (6)

The regulations concerning reversion of provisionally promoted sailors who decline to re-engage for promotion courses have recently been reviewed and the Naval Board have decided that they are to stand for the following reasons—

- (a) Provisional promotion was introduced to protect the promotion prospects of sailors who for service reasons were unable to undergo promotion courses in Australia or sit for Branch Technical Tests. This has now been extended to cover NBCD. Provisional promotion permits sailors to enjoy the privileges of higher rank, higher pay and added seniority before they are actually professionally qualified. In the case of some sailors it also means that they are being paid in the higher rank whilst carrying out the duties of the lower rank. These privileges are often at the expense of a contemporary who qualified professionally for the higher rank but was not promoted due to provisionally promoted sailors blocking the promotion list.
- (b) It is therefore quite conceivable that a qualified sailor, who re-engaged to obtain the qualification, could leave the service in the lower rank due to a sailor not qualified preventing his promotion. He would also be denied a trade proficiency certificate while more entitled than a provisionally promoted sailor.
- (c) Should the provisionally promoted sailor fail the course or the Branch Technical Test he has received the pay and privileges of the higher rank for virtually nothing.
- (d) The periods of service required after completion of courses have been set after due consideration to the loss of effective time, added skills, promotion prospects, etc., and the Naval Board do not believe that these should be altered because of any previous re-engagement for service overseas. If they were it could be argued that sailors who miss courses because of service in ships in the Strategic Reserve and elsewhere should have their required periods of service amended as well. Although not required to re-engage for such service the eventual DEE date of these sailors could also be much later than if they had been placed on the first course for which they would have been selected. This would lead to a chaotic state with many anomalies.

(HPB 316/1/3)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

161—Stores General—ABR 5053—Catalogue of Stationery, Office Devices, Etc.—Change of Defence Stock Numbers

The Defence Stock Numbers (DSN's) of the undermentioned items have been changed as follows—

Old DSN		Item Name	New DSN	
Group Class	Catalogue Number		Group Class	Catalogue Number
7510	66-010-3205	Eyelet Reinforcement	7510	66-010-3203
7510	66-010-3359	Pen Point and Penholder, Mapping	7510	66-010-3459
7510	66-017-3937	Pen Cleaner, Liquid	7510	66-018-4951
7510	66-019-6379	Ribbon, Typewriter, Black ..	7510	66-011-1177
7510	66-019-6380	Ribbon, Typewriter, Red and Black	7510	66-023-2833
7530	66-013-7661	Notebook, Stenog's 8-in. x 5-in. ..	7530	66-013-7561
7530	66-015-8979	Envelope Mailing	7530	66-015-8978
7530	66-017-0911	Stencil, Duplicating Machine ..	7530	66-021-6525

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

3. ABR 5053 will be amended in due course.

(DSAP 465/52/903)

UNCLASSIFIED

162—Stores General (Group Class 2815)—Diesel Engines and Components—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN		Item Name	New FSN	
Group Class	Catalogue Number		Group Class	Catalogue Number
2815	00-212-6789	GEAR, HELICAL	2815	00-745-7738

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 1104/51/818)

UNCLASSIFIED

163—Stores General (Group Class 3439)—Miscellaneous Welding, Soldering and Brazing Supplies and Accessories—Change of Defence Stock Numbers

Further to Navy Order 7 of 1967 it is advised that the Defence Stock Numbers (DSN's) of the undermentioned items have been changed as follows—

Old DSN			New DSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
3439	66-021-5565	Brazing Alloy Silver ..	3439	66-019-9369	
3439	66-021-5566	Brazing Alloy Silver ..	3439	66-018-0643	
3439	66-021-5568	Brazing Alloy Zinc ..	3439	66-018-0646	
3439	66-019-6341	Brazing Alloy Aluminium ..	3439	66-018-0648	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 505/84/148)

(Navy Order 7 of 1967)

UNCLASSIFIED

164—Stores General (Group Class 4130)—Pumps and Compressors—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
4130	00-276-9665	COOLING COIL, AIR, DUCT TYPE	4130	00-913-9432	
4130	00-276-9667	COOLING COIL, AIR, DUCT TYPE	4130	00-913-9430	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 1109/51/833)

UNCLASSIFIED

165—Stores General (Group Class 5920)—Fuses and Lightning Arresters—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5920	00-284-6785	FUSE, CARTRIDGE ..	5920	00-855-4260	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/51/313)

UNCLASSIFIED

166—Stores General (Group Class 5930)—Switches—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5930	00-648-3850	SWITCH	5930	00-390-3708	
5930	00-308-4615	SWITCH	5895	00-308-4615	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 505/87/655)

UNCLASSIFIED

167—Stores General (Group Class 5960)—Electron Tubes and Associated Hardware—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5960	00-894-0684	SEMICONDUCTOR DEVICE ..	5961	00-894-0684	
5960	00-811-5799	SEMICONDUCTOR DEVICE ..	5961	00-811-5799	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/54/331)

UNCLASSIFIED

168—Stores General (Group Class 5970)—Electrical Insulators and Associated Hardware—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5970	00-391-9757	BUSHING	5815	00-391-9757	

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/71/134)

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169

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UNCLASSIFIED

169—Stores General (Group Class 5999)—Miscellaneous Electrical and Electronic Components—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

<i>Old FSN</i>			<i>New FSN</i>	
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>
5999	00-019-6239	BOARD, PRINTED CIRCUIT..	5821	00-828-0840

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/71/135)



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
19th April, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

J. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

170—Photographs, Plans, Etc., Reproduced for Repayment Services

The appendix to Navy Order 695 of 1966 is to be amended as follows—

Heading—Column 2—

Delete present heading and insert in lieu " Cost Price ".

Heading—Column 3—

Amend heading to read " Commonwealth Departments (except Defence, Army, Air and Supply) and members of the RAN ".

Heading—Column 4—

Delete " (plus 20 per cent.) ".

Heading—Column 5—

Delete " (plus 25 per cent.) ".

(DNA 201/58/15)

(Navy Order 695 of 1966)

Section 2

PERSONNEL

UNCLASSIFIED

171—Blood Grouping of Personnel on Entry

All personnel entering the Service are to have their full ABO and Rh(D) blood groups determined and recorded at the establishment where they receive their initial training.

Procedure

2. The blood group determinations are to be carried out only by staff of the Medical Branch experienced in the techniques. Generally, this will mean that the testing will be done by trained laboratory technicians. A laboratory technician from RANH PENGUIN is to be lent to NIRIMBA as required for grouping of apprentice intakes; RANC intakes are to be sent to ALBATROSS for grouping. Group determinations carried out by Red Cross Blood Transfusion Services will be acceptable if supported by documentary evidence.

3. The laboratory staff performing blood grouping must give it their full attention, i.e., they are not to be required to perform any other duties whilst blood-group determinations are in progress.

4. ABO groups are to be determined using the appropriate " A ", " B " and " O " sera exactly according to the manufacturer's instructions. Personnel should be " back-grouped " by checking their sera against known A and B cells, to confirm the determination. Rh " D " grouping is to be performed by the technique in which the operator has been trained, again using the sera exactly according to the manufacturer's instructions. Rapid methods (designed for emergency use) are to be avoided. All D

negative samples should be tested against a second anti-D sera of a different batch. The laboratory technician is responsible for organising a routine for labelling samples and tests which will obviate any possible error in recording or method.

Recording

4. Laboratory staff should record the day's results in a bench book, which should be checked occasionally to see that the distribution of Rh(D) positive results is close to the anticipated proportion.

6. Results are to be entered on MHD's, Identity Cards and Identification Tags on completion of each batch of tests. The records must be checked against the actual tests (preferably by a second person) after the recording is complete. Moss classification (I-IV) is not to be used; ABO groups are to be recorded simply as "A", "B" or "O". Only the Rhesus D group will be indicated, simply as "Positive" or "Negative". For example, a person of group A, Rh(D) negative will be recorded as "A Negative". Place and date of grouping are always to be shown.

Serving Personnel

7. It is of the utmost importance that personnel at present serving have blood groups checked as soon as possible, provided that grouping of new entries is not thereby prejudiced. Determinations are to be checked with entries already recorded on their MHD's, Identity Cards and Identification Tags. If any discrepancy is noted, the groups are to be re-determined, according to the provisions of this order and the entry on the relevant records amended. Place and date are to be noted, whether amendment is required or not, so that entries that have been scrutinised and checked may be distinguished from those which have not. A report of MHD's checked and the number found incorrect, is to be included in the Medical Officer's Journal, Paragraph 14.

8. The above instructions apply equally to all members of the RANER and CNF entering for continuous full-time service either voluntarily or on call up. If Service facilities are not available for blood grouping, arrangements should be made with the Red Cross Blood Transfusion Service of the relevant State.

(MDG 327/53/83)

UNCLASSIFIED

172—Eyesight and Colour Perception Standards

Navy Order 47 of 1967 is to be amended as follows—

Paragraph 2—

Under "All other Wrens" insert "MTD 7, 7, 3".

(DMT 327/53/143)

(Navy Order 47 of 1967)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

173—Short Courses for RAN and Reserve Officers

Navy Order 654 of 1966 is to be amended as follows—

Appendix A—Page 8—

Course 25770

Delete existing Column 5 and insert "Seaman Officers with considerable AIO experience".

Course 25790

(a) Change Column 4 to read "4 weeks".

(b) Delete existing Column 7 and insert "1 week AIO Refresher and then join up with Course 25770".

2. Navy Order 101 of 1967 is hereby cancelled.

(DOA 312/203/81)

(Navy Orders 654 of 1966 and 101 of 1967)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

174—A/S Mortar Mark 10—Modification to Warning Relay Box Mark 1 Mod. 1

HMA ships and establishments fitted with A/S Mortar Mark 10 equipment are warned that on completion of Modification 1 to Warning Relay Box Mark 1, Mod. 1 authorised by BR 1870, there is danger of the Mortar Mounting swinging to "TRAIN" from "LOAD" if the 60-volt supply fails.

2. The only absolute safeguard against possible injury to personnel and damage to equipment is the removal of the handle from the Interlock Switch Panel.

3. Where not already carried out, Modification 1 to Warning Relay Box Mark 1, Mod. 1 is to be held in abeyance pending further instructions.

(DWE 707/251/30)

UNCLASSIFIED

175—Fire Control Instruments—Voltage Measuring Units Mark 1—Defective Manufacture

A number of Voltage Measuring Units Mark 1 VM manufactured by Messrs. T. B. & J. Puttick Ltd. have been issued with defects in wiring, incorrect tallying and errors on the drawings packed with the instrument. The defects in wiring are liable to result in difficulty in obtaining a null reading under certain circumstances.

2. All holders of VMU's Mark 1 VM of Messrs. Puttick's manufacture and with Serial Numbers 608 to 635 inclusive, are to check the units and ensure that—

- (a) The screening of the wiring is earthed to the chassis.
- (b) Transformers TR 1 and TR 2 are earthed by a short length of 14/.0076 pink equipment wire (NSN 6145-99-910-0185) connecting TR 1 pin 4 to chassis and TR 2 pin 5 to chassis.
- (c) The components are marked as follows—
 - (i) Mains Transformer Type 197P1—TR 1.
 - (ii) Signal Transformer Type 197P2—TR 2.
 - (iii) Signal Sense Switch—SW 4.
 - (iv) Voltage Measurement Switch—SW 5.

3. The following alterations should be made to the drawings—

Drawing No. 383/716—

- R 36 should be Resistor Welwyn Type SA 3623 $\frac{1}{2}$ W .47 ohms \pm 5 per cent Equiv. Pattern 021-5083.
- R 37 should be Resistor Welwyn Type SA 3623 $\frac{1}{2}$ W .4.7k ohms \pm 5 per cent Equiv. Pattern 021-5323.
- R 38 should be Resistor Welwyn Type SA 3623 $\frac{1}{2}$ W .4.7k ohms \pm 5 per cent Equiv. Pattern 021-5323.

Drawing No. 383/717—

- R 41 should be Resistor Morganite Type T $\frac{1}{2}$ W .100k ohms \pm 5 per cent.
- R 42 should be Resistor Morganite Type T $\frac{1}{2}$ W .100k ohms \pm 5 per cent.

4. According to MOD (Navy) records VMU's with serial numbers in Paragraph 2 were issued to the RAN. Holders of these VMU's are to report the serial number to Navy Office and to state whether the unit contained the defects outlined in Paragraph 2.

(ACDC 400/2/729)

UNCLASSIFIED

176—Naval Stores (General)—Introductions—Group Class 5120 Catalogue No. 66-025-9366—Compressing Tool, Splicing Sleeve

The new Bosun Dinghies being introduced into the Fleet are fitted with halyards, forestays, shrouds, and kicking straps made of $\frac{1}{4}$ -in. rope. For ease of manufacture and maintenance heart shaped thimbles are crimped into place at the wire ends with Talurit sleeves instead of the conventional splicing.

2. To avoid the necessity for these fittings to be returned to the dockyard for repair or renewal it has been decided to introduce the following item—

Group/Class	Catalogue No.	Approved Item Name	Acctg. Class
5120	66-025-9366	Compressing Tool, Splicing Sleeve	Permanent

3. To accord with the initial allocation of Bosun Dinghies the allowances of the compressing tool will be as follows—

	Ship/Establishment	Qty. Allowed
MELBOURNE	1 No.
SYDNEY	1 No.
SUPPLY	1 No.*
VAMPIRE	1 No.
VENDETTA	1 No.
DUCHESS	1 No.
ANZAC	1 No.
DIAMANTINA	1 No.
QUEENBOROUGH	1 No.
MORESBY	1 No.
RUSHCUTTER	1 No.
NIRIMBA	1 No.
CRESWELL	1 No.

* Already approved in accordance with Form AS 130 Serial No. 8/66.

Note—NOICWA may use the 1 No. allocated to HMAS DIAMANTINA at his discretion for use in trials at HMAS LEEUWIN.

4. Initial supply to the above ships and establishments will be effected, without demand, by SNSO, Sydney. Ships and establishments subsequently allocated Bosun Dinghies should lodge a demand for 1 No. compressing tool.

5. A quantity of thimbles referred to in Paragraph 1 will be supplied with each compressing tool.

(DSAP 506/71/527)

UNCLASSIFIED

177—Stores—Stocktaking—Introduction of Stocktake/Location Pages

The increased number of items being transferred between Group Classes and changes to Catalogue numbers has necessitated constant amendment of the existing Record of Stowage and Stocktaking, Forms AS 148X and AS 148Y. In order to eliminate amendment to and rewriting of these records, it has been decided to replace Forms AS 148X and AS 148Y with loose leaf stocktaking/location pages.

2. The new stocktaking/location record pages, which will be the same size as Form AS 151, consumable ledger pages, have been allocated the following form numbers and will be printed in three colours as indicated—

- AS 148P—Permanent items (pink).
- AS 148C—Consumable accountable items (white).
- AS 148N—Consumable non-accountable items (yellow).

3. Forms AS 148P, C and N, when in use, are to be placed in binders Form AS 155, in left justified sequence of catalogue number order throughout each Group Class, irrespective of the accounting classification.

4. With the following exceptions, the procedures detailed in ABR 4, Chapter 16, are to be complied with—

- (a) Only one copy of the record, which is to be held in the store, is to be maintained. If necessary, the record may be divided into separate sections, corresponding to the stock held in each storeroom.

- (b) On completion of a physical stocktake, the quantities mustered are to be inserted on Forms AS 148P and AS 148C and compared with the remains appearing in the ledger. Any variations are to be noted for further investigation in accordance with ABR 4, Chapter 16.
- (c) It will no longer be necessary for the ledger balance and details of discrepancies revealed to be inserted on Forms AS 148P and AS 148C.
5. Form AS 148N has been designed to facilitate the implementation of ABR 4, Article 1839A (7).
6. Forms AS 148P, C and N are to be brought into use as follows—
- (a) Ships and establishments are to convert to the new system as changes to Group Classes or Catalogue numbers occur or when the existing records require rewriting. The procedures detailed in Paragraph 4 (a) and (b) above are to apply to existing records from the date of this order.
- (b) Ships and establishments commissioning after the date of this order will be supplied with Forms AS 148P, C and N on commissioning.

(DSAP 501/57/1106)

UNCLASSIFIED

178—Tag, Identification, Personnel

It has been decided that identification tags are to be worn at all times by members of the Permanent Naval Forces, including WRANS, RANNS, Naval Dockyard Police, Apprentices and Junior Recruits, and by members of the Citizen Naval Forces when carrying out continuous training or service.

2. The following information is to be stamped or engraved on the tags in $\frac{1}{8}$ -in. or $\frac{3}{32}$ -in. letters or figures—

On Face—

- (i) Initials.
- (ii) Surname.
- (iii) Personal Number.
- (iv) Religion.

On Reverse—

Blood Group.

Religion may be abbreviated as necessary. The information to be included on the tags is to be verified from the member's Service Certificate and Medical History Documents as appropriate.

3. A gratuitous issue of 1 No. tag, identification, personnel (Catalogue No. 23495) and 1-yd. cord, tag, identification (Catalogue No. 20859) is to be made to all entitled members. Ships and establishments are to make local arrangements for the stamping of the tags.

4. Demands for initial supplies of tags and cord are to be lodged on the Superintending Victualling Store Officer, Royal Edward Victualling Yard, Sydney.

5. The initial issues are to be written off charge in the ledger by manuscript certificate. Replacement issues are free and are to be written off charge using Form AS 149 Counter Book. A small stock, not exceeding requirements for 10 per cent of complement, is to be held for replacements.

6. ABR 93, Manual of Victualling Stores, Part I, Chapter 29, and Part II, Scales of Issue, will be amended.

7. This order will be reprinted for posting on notice boards.

(D of V 917/54/127)

UNCLASSIFIED

179—Weapons—A/S Mortars Marks 3 and 4 and Mark 10—59504123 and 59504124 Projectiles A/S Inert Mark 4 and Mark 4 Mod. 1—Incorrect Fitting of Ring Piston and Spring Ring Retaining

(DCI (RN) 1416/1966)

Information and reason for action Instances have been found of the incorrect fitting of piston rings and springs in 59504123/24 projectiles A/S inert filled Mark 4/Mark 4 Mod. 1 fitted at ROF Bishopton during the past few years. Correctly fitted rings have the horizontal arm of the "L" fitted under the recess of the piston ring groove, with the spring retaining seated behind the ring at the base and rear of the groove. Incorrectly fitted rings have been reversed, with no part of the ring entering the recess of the groove, and with the spring retaining seated on top of the horizontal arm of the "L" shaped piston ring.

2. *Action to be taken* .. (a) *By HMA ships*—Examine all 59504123 and 59504124 projectiles A/S inert Mark 4/Mark 4 Mod. 1 to ensure correct fitting of piston ring and spring, in the "L" shaped groove on the projectile body. It should be possible to determine by "feel" whether or not rings and springs are correctly fitted, but in cases of doubt the last few inches of tape should be eased back, piston ring checked, and tape repositioned. Any projectiles found with incorrectly fitted rings and springs to be set aside for exchange at an RAN armament depot at first opportunity.
- (b) *By RAN armament depots*—Rectification in accordance with CL(UA) 120 dated 30th July, 1966.

3. *Safety category* .. NMER (BR 862), Article 2607, Category DD, i.e., dangerous if used.

(DAS 714/51/241)

RESTRICTED

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Section 5

**BOOKS, CORRESPONDENCE, FORMS AND STATIONERY
UNCLASSIFIED**

180—Mail for HMA Ships

The Postmaster-General's Department has provided a schedule showing the arrival and closing times at Cebu City, Manila and Subic Bay for airmails to and from Australia. This schedule is contained in the appendix to this order.

2. Navy Orders 601 of 1966 and 63 of 1967 are relevant.

**APPENDIX
Philippines**

<i>Local Standard Time</i>		<i>Cebu City</i>	<i>Manila</i>	<i>Subic Bay*</i>
A R R I V A L S	BY AIR AT POST OFFICE	S		
	M	4.35a 1p 6.15p	2.25p	
	T	4.35a 1p 6.15p	1p	
	W	4.35a 1p 6.15p	4p	
	T	4.35a 1p 6.15p	1.15p	
	F	4.35a 1p 6.15p	4p	
	S	4.35a 1p 6.15p		
READY FOR COLLECTION		8.30a and 1.30p Monday-Saturday	Immediately upon arrival	
D E P A R T U R E S	BY AIR MAIL CLOSES AT POST OFFICE	S		
	M	8a 4p		
	T	8a 4p	4p	
	W	8a 4p		
	T	8a 4p	4p	
	F	8a 4p	4p	
	S	8a 4p	4p	

* Mail for and from Subic Bay picked up and delivered at the Manila Post Office by United States Navy Personnel from Sangley Point, Cavite, at 9 a.m. Monday to Friday and at 10 a.m. each Saturday.

(AS (NS) 68/201/22)

(Navy Orders 601 of 1966 and 63 of 1967)

By Authority: A. J. ARTHUR, Commonwealth Government Printer, Canberra

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ANO's 181-187/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
25th April, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
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Section 2 PERSONNEL

UNCLASSIFIED

181—Officers—Bridge Watchkeeping and Ocean Navigation Certificates and Certificates of Fitness for Seaman Duties

SECTION I

Introduction

This order embodies and amplifies the contents of Navy Order 517 of 1965 and introduces a limited Bridge Watchkeeping Certificate for officers of the Permanent Naval Forces.

2. This order applies to—

- (a) General List Seaman Officers who are required to gain a Full Bridge Watchkeeping Certificate to qualify for promotion to the rank of Lieutenant.
- (b) General List Seaman Officers transferred from the Supplementary List (Fleet Air Arm) who require a Certificate of fitness for seaman duties and a Full Bridge Watchkeeping Certificate in order to become fully qualified.
- (c) General List Seaman Officers transferred from other branches who are required to gain a Full Bridge Watchkeeping Certificate.
- (d) Supplementary List Seaman Officers who require a Full, Restricted or Limited Bridge Watchkeeping Certificate to qualify for promotion to the rank of Sub-Lieutenant.
- (e) Officers of other branches who are posted for seaman duties.
- (f) Officers of any branch who wish to gain seaman qualifications voluntarily provided they meet the visual standard required by seaman officers.

SECTION II

The Full Bridge Watchkeeping Certificate and Conditions Governing Award

3. **Form of Certificate**—The Full Bridge Watchkeeping Certificate is to state that the officer concerned—

“Has a sound knowledge of the duties of the officer of the watch at sea and in harbour, including measures necessary for the safety of the ship, and is competent to take charge of a watch at sea by day and by night.”

4. **Experience Required**—The full Bridge Watchkeeping Certificate may be awarded—

- (a) To officers referred to in Paragraph 2; after a minimum of eight months effective sea training.
- (b) To officers who hold a Restricted or Limited Bridge Watchkeeping Certificate, the Full Bridge Watchkeeping Certificate may be awarded after a further four months sea training in the appropriate type of ship.

It is emphasised that these are minimum periods and Captains are not to award the Certificate until they are entirely satisfied that the officer has proved himself competent as in Paragraph 3 above. Officers have varying opportunities of gaining experience

at sea and it is not regarded as in any way derogatory of an officer's ability to delay awarding the certificate until he has had more experience. Full Bridge Watchkeeping Certificates may only be awarded to officers holding an Ocean Navigation Certificate.

5. If the Captain is not satisfied that an officer is qualified in accordance with Paragraph 3 in the case of—

- (a) officers referred to in Paragraph 2 (a); by the time they are due for promotion to the rank of Lieutenant;
- (b) officers, referred to in Paragraphs 2 (b), (c) and (d) above, after eighteen months sea training;
- (c) officers holding a Restricted or Limited Bridge Watchkeeping Certificate; after a further eight months sea training;

and therefore withholds the Certificate, the reasons for so doing are to be reported to the Naval Board in the form of a Special Report on Form AS 206. The report should state whether his failure to obtain the Certificate was due either to his own fault and/or lack of ability, a lack of opportunity, e.g., refits, unsuitable ship's programmes, etc.

6. No such reports are required in the case of officers referred to in Paragraph 2 (f) above.

7. In the case of officers in 2 (f), Seaman training must neither take place at the expense of an officer's departmental duties, nor affect the training of seaman officers who must necessarily take priority. No special courses will be arranged and the obtaining of this Certificate for other than seaman officers is therefore voluntary.

8. General List Seaman Officers are required to gain this Certificate and the Ocean Navigation Certificate before being eligible for selection for pilot or observer training.

9. Before awarding a Full Bridge Watchkeeping Certificate, Commanding Officers are to satisfy themselves that the officer—

- (a) Is fully competent to take charge of the ship in any normal role.
- (b) Has a thorough and instinctive knowledge of the Rule of the Road.
- (c) Is able to handle the ship with safety and confidence in close proximity to others, and has a sound knowledge of emergency steering arrangements.
- (d) Has a comprehensive knowledge of the capabilities of action information organisation and what information he can expect from it; is able to assess this advice and act correctly.
- (e) Is able to appreciate the approach of danger from navigational hazard or collision with sufficient clarity and to take the correct avoiding action.
- (f) Is able to take up and maintain a station by day or night.
- (g) Is able to keep the ship's track up to date and calculate future positions.
- (h) Has a good knowledge of tactical communications and publications.

SECTION III

Restricted Bridge Watchkeeping Certificate and Conditions for Award

10. This Certificate enables officers to gain watchkeeping qualification in a small ship. It is intended in the case of seaman officers as a step towards the award of a Full Bridge Watchkeeping Certificate and may be awarded to an officer who does not hold an Ocean Navigation Certificate.

11. **Form of Certificate**—The Restricted Bridge Watchkeeping Certificate is to state that the officer concerned—

“Has a sound knowledge of the duties of the Officer of the Watch at sea and in harbour including measures necessary for the safety of the ship, and is competent to take charge of a watch at sea by day and by night in minesweepers, patrol craft and similar vessels.”

12. **Experience Required**—This Certificate may be awarded to an officer eligible under the terms of Paragraph 2 of this order after four months sea experience.

13. Before awarding a Restricted Bridge Watchkeeping Certificate, Commanding Officers should satisfy themselves that officers are competent in accordance with Paragraph 9 above within the limitations by the type of ship and its role. This Certificate is only to be awarded by Captains of ships for which the Certificate is intended.

SECTION IV

Limited Bridge Watchkeeping Certificate and Conditions of Award

14. This Certificate has been introduced to enable officers to gain a watchkeeping qualification in a Fleet ship of escort size and above which by nature of its role, precludes the award of a Full Bridge Watchkeeping Certificate. It is intended in the case of seaman officers as a step towards the award of a Full Bridge Watchkeeping Certificate and may be awarded to an officer who holds an Ocean Navigation Certificate.

15. **Form of Certificate**—The Limited Bridge Watchkeeping Certificate is to state that the officer concerned—

“Has a sound knowledge of the duties of Officer of the Watch at sea and in harbour including measures necessary for the safety of the ship and is competent to take charge of a watch at sea by day and by night when single ship steaming.”

16. **Experience Required**—This Certificate may be awarded to any officer eligible under the terms of Paragraph 2 of this order after four months sea experience.

17. Before awarding a Limited Bridge Watchkeeping Certificate, Commanding Officers should satisfy themselves that officers are competent in accordance with Paragraph 9 above, with accepted limitations for 9 (a), 9 (c) and 9 (f). The award of a Limited Bridge Watchkeeping Certificate will count equally with a Restricted Bridge Watchkeeping Certificate as a qualification for promotion of seaman officers of the Supplementary List from Acting Sub-Lieutenant to Sub-Lieutenant.

SECTION V

Ocean Navigation Certificate and Conditions Governing Award

18. This Certificate is a compulsory qualification for officers referred to in Paragraph 2 (a), (b), (c) and (d). Officers referred to in Paragraphs (e) and (f) should be given the opportunity and encouraged to gain this Certificate.

19. This Certificate is to state that an officer has proved to the satisfaction of his Captain, that he can safely navigate a ship while out of sight of land.

20. It follows that seaman officers must be given every opportunity to carry out navigating duties and it is regarded as essential that all navigation work be properly laid out in a Work Book.

21. Navy Order 323 of 1966, Section 7, contains guidance on what constitutes an adequate test of an officer's ability to navigate out of sight of land.

SECTION VI

Certificate of Fitness for Seaman Duties and Conditions Governing Award

22. This section applies to officers referred to in Paragraph 2 (b) and (f) of this order.

23. To become eligible for all seaman officers postings, officers covered by this section are required to obtain the following Certificates from the Captain of a sea-going ship—

- (a) A Full Bridge Watchkeeping Certificate in accordance with Paragraph 3 of this order.
- (b) A Certificate stating that the officer is considered in all respects fit for seaman duties.

24. The award of this Certificate is subject to the award of a Full Bridge Watchkeeping Certificate and therefore should not be granted before the officer has served eight months in a seagoing ship.

25. To assist his personal observation of the officer's competence and fitness, and thus help him to decide whether he can grant the required Certificates, the Captain should convene a Ship's Board to examine the officer. It is not desired to lay down the exact form of the examination or the precise passing standard; however a suitable form of examination is set out in the Appendix to this order.

SECTION VII

Authority to Award Certificates

26. Full Bridge Watchkeeping Certificates, Ocean Navigation Certificates, Limited Bridge Watchkeeping Certificates and Certificates of Fitness for full seaman duties may be awarded by officers of Lieutenant-Commander's rank or above, in command. Lieutenants in command may award Restricted Bridge Watchkeeping Certificates and Ocean Navigation Certificates.

27. It is appreciated that certain ships, by virtue of their roles cannot provide the full variety of experience that an Officer of the Watch in a Fleet unit ideally requires. This limitation is accepted; however, before awarding Certificates Captains should be confident that the officer has sufficient practical ability and basic knowledge to be a reliable Officer of the Watch in a Fleet unit.

28. Circumstances may arise where minesweepers, patrol craft and similar vessels may be engaged in operations where the experience gained by an officer may fall little short of the requirement of an officer of the Watch in a Fleet unit. Where officers display above average ability in these circumstances, Lieutenants in command may recommend officers for the award of a Full Bridge Watchkeeping Certificate in accordance with Paragraphs 3 and 4 of this order to their appropriate RAN Operational Authority for decision.

29. In the event of an officer being posted away before being awarded the required Certificates, Captains are to report the progress made and effective sea experience gained by such officers, to the Naval Board; a copy being given to the officer concerned. If an officer merits award of a Full, Restricted or Limited Bridge Watchkeeping Certificate on his current performance, qualifying periods should be adjusted to make allowance for experience gained in previous ships.

30. The awards of the Certificates covered by this order are to be reported to the Naval Board.

31. Navy Order 517 of 1965 is hereby cancelled.

APPENDIX

Examination of Officers with Limited Qualification

It is suggested that the examination should be on the following lines—

- (a) Oral Seamanship examination.
- (b) Oral examination in AIO, Gunnery, TAS and Communications.
- (c) Practical tests in Seamanship.
- (d) Practical tests in Signals.
- (e) Practical tests in Navigation and Pilotage.

2. **Seamanship Examination**—A modified form of the Seamanship examination for rank of Lieutenant (References, Seamanship Manual, BR 67 (i), (ii) and (iii), Revised Edition, and R1)—

<i>OOW Duties</i> ..	..	A thorough knowledge required both for sea and harbour, including the correct methods of dealing with requestment and defaulters.
<i>Rule of the Road</i> ..	..	A thorough knowledge required.
<i>Rigging</i> ..	..	A knowledge of simple practical jobs of hoisting, slinging and lashing. No detailed knowledge required.
<i>Anchor Work</i> ..	..	General acquaintance with the ship's anchors, cables, capstans, cableholders and anchor gear, as fitted. Knowledge of letting go anchor, veering and securing cable and securing to buoys, mooring, clearing hawse and laying out anchors. Detailed knowledge of testing cable or permanent moorings is not required.
<i>Organisation</i> ..	..	General acquaintance with the organisation of the ship, including the broad responsibilities of the Engineer, Supply and Secretariat and Electrical Officers. A thorough knowledge of Division Officer's duties and welfare organisation. Knowledge of Damage Control states of readiness and fire fighting organisation.
<i>Pilotage</i> ..	..	General Navigation and Chartwork, systems of lights, buoyage and fog signals.
<i>Ship and Fleet Work</i> ..	..	Conning and handling ship. Station-keeping. Relative velocity problems.
<i>Warning Radar</i> ..	..	Such knowledge of navigational and warning radar as is required by an OOW.
<i>AIO</i> ..	..	An outline knowledge.
<i>Meteorology</i> ..	..	Reading and logging of meteorological instruments. Estimating and logging weather elements. General acquaintance with weather forecasting and weather reports.
<i>Tides</i> ..	..	General knowledge of the practical effects of tides and tidal streams on the ship and her boats. Knowledge of the use of Tide Tables, Part I, and the Tidal Atlas. Knowledge of the theory of tides not required.

<i>Theoretical Astronomical</i>	} Nil.
<i>Compass—Theory ..</i>	
<i>Chronometer ..</i>	
<i>Surveying ..</i>	

3. **Practical Tests in Seamanship**—To test ability to take charge of simple evolutions such as hoisting a boat, tricing up an accommodation ladder, or hoisting in stores.

4. **Practical Tests in Signals**—To standard outlined in ABR 5009/64, Article 0704.

5. **Practical Tests in Navigation and Pilotage**—To test ability—

(a) to use a sextant to take a sight, and to work it out without time limit, with the aid of any tables and examples required;

(b) to fix the ship by shore objects;

(c) to lay off and check a course on the chart.

6. **Examinations in Gunnery and TAS**—General acquaintance with the organisation and work of the Gunnery and TAS Departments in the ship; outline knowledge of the capabilities and limitations of the ship's armament and of the principal weapons fitted in other classes of ships. No detailed knowledge required.

7. **Examination in Communications**—To be designed to give an understanding of Fleetwork, Communications and Electronic Warfare principles required by an Officer of the Watch (Reference ABR 5009/64, Article 0704).

8. **Passing Standard for all Examinations**—No definite passing standard is laid down, but a 60 per cent overall mark with no less than 50 per cent in one subject is considered sufficient to achieve a pass.

(DOA 303/1/40)

(Navy Orders 517 of 1965 and 323 of 1966)

UNCLASSIFIED

182—Watchkeeping Routines—Chow-to-Chow System

The Naval Board have decided that the "Chow-to-Chow" Watchkeeping Routine may be adopted at Commanding Officers' discretion in ships when, due to operational or exercise requirements, prolonged periods of watchkeeping in three watches or less can be foreseen. Shore establishments may adopt the routine if considered appropriate.

2. The working of extended hours on any one day by members employed in "Chow-to-Chow" watchkeeping may be regarded as qualifying for the supplementary allowance of one-third of the appropriate rate of Victualling Allowance which was authorised by Navy Order 186 of 1966.

3. The additional amount made available in this manner is regarded as adequate to provide a mid-watch snack which is sufficient to prevent loss of efficiency due to the natural fall in blood-sugar level during the long watch. This requirement can best be filled by easily assimilated carbohydrate with perhaps a small amount of fat. A mug of cocoa or a glass of milk, with a slice of buttered toast, bread and butter or a small sandwich, should be ample.

4. Mid-watch snacks are to be regarded as additional to the normal daily dietary scale which should already provide some 3,000 calories. There should be no need, therefore, for mid-watch snacks to contain a significant amount of protein and/or calories. Such meals would be excessive in quantity, unwise in content and would be likely to increase the incidence of obesity in the Service, a matter which is already causing some concern.

5. Examples of two and three watch systems are shown below but Commanding Officers are at liberty to vary the hours in the light of experience and depending on operational requirements—

(a) *Three Watch System*—

		<i>Day 1</i>	<i>Day 2</i>	<i>Day 3, etc.</i>
2359-0730	..	Blue	Red	White
0730-1200	..	Red	White	Blue
1200-1730	..	White	Blue	Red
1730-2359	..	Blue	Red	White

(b) *Two Watch System*—

		<i>Day 1</i>
2359-0730	..	Port
0730-1200	..	Starboard
1200-1730	..	Port
1730-2359	..	Starboard

6. ABR 93 will be amended.

7. Navy Order 595 of 1966 is hereby cancelled.

(D of V 1606/203/33)

(Navy Orders 186 and 595 of 1966)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

183—Aviation—Detached Helicopter Flights

Navy Order 304 of 1966 is to be amended as follows—

Paragraph 8—

Line 5—

Delete sentence "Details are to be signalled if more than three days postal delay is expected".

Line 8—

Delete sentence "Paragraph 5 of RI 6152 is applicable only to returns forwarded by squadrons".

(DNAP 1311/201/80)

(Navy Order 304 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

184—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 45/1967)

Propellants of the following lots and sub-lots are due for withdrawal, having reached their age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 3795 ..	} SC 061 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in. (FA)
RNC 3825 ..		
RNC 3847 ..		
RNC 3811 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNC 3824 ..		
RNC 3854 ..		
RNC 3810 ..	} SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNC 3823 ..		
RNC 3835 ..		
RNC 3852 ..		
RNC 3834 ..	} SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 3851 ..		
RNC 4105 ..	SC/Z 008 ..	Cartridges— QF 4-in., QF 5.25-in., QF 4.5-in. (SL)
RNC 3842 ..	NF 029 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 3843 ..	NF 042 ..	Cartridges— QF 4.5-in. (SL), QF 4-in.
RNC 3849 ..	NF/S116-036..	Cartridges— QF 4-in. (FA)
RNC 3816 ..	NF/S164-048..	Cartridges— QF 4-in.
RNP 104 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNP 117 ..		
RNP 118 ..		
RNP 102 ..	} SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNP 115 ..		
RNP 101 ..	} SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 114 ..		
RNP 379R ..	NF 029 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNP 108 ..	} NF 052 ..	Cartridges— QF 4-in.
RNP 123 ..		

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
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RNP 110 ..	} NF 059 ..	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 244 ..		
RNP 98 ..	} NF 080 ..	Cartridges— QF 5.25-in.
RNP 360R ..		
RNP 361R ..		
RNP 76 ..	} NF/S164-048..	Cartridges— QF 4-in.
RNP 97 ..		
RNP 107 ..		
RNP 111 ..		
RNP 121 ..		
RNP 295R ..		
RNP 313R ..	NF/S198-054..	Cartridges— QF 5.25-in. (SL), QF 4.5-in. (SL)
RNP 2422XA ..	SUK/XII ..	Motor Rocket 3-in. A/C
MEC 112 ..	} SC 061 ..	Cartridges— QF 4.5-in., QF 4-in. (FA)
MEC 114 ..		
MEC 111 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
MEC 113 ..		

2. Action to be taken by HMA ships, establishments and proof ranges

Return to RAN armament depot as early as practicable; if unable to comply within three months from date of this order, report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. Action to be taken at RAN armament depots

Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/79)

UNCLASSIFIED

185—Aviation Fuels—Quality Control

Recent investigations into fungal, bacterial and particulate matter contamination of AVCAT held in HMA ships and establishments have indicated the need for more stringent quality control of aircraft fuels in the RAN. This order specified the minimum quality control required in the delivery, custody and issue of RAN aviation fuels.

2. Fuels Used—

(a) AVCAT—

- (i) Aviation Turbine Fuel High Flash Type (AVCAT) currently supplied to the RAN is for use in both ship-borne and shore-based aircraft. This fuel had a flash point of 140° F. minimum to permit its stowage in the unprotected tanks of HMA ships.
- (ii) AVCAT is supplied in Australia to Specification DEF (Aust.) 207.

(b) AVGAS—

- (i) Aviation Gasoline currently supplied to the RAN is AVGAS 100/130 to Specification DEF (Aust.) 215.
- (ii) AVGAS 115/145 (Specification DEF (Aust.) 215) will be introduced into the RAN on the advent of Tracker Aircraft. Dakota aircraft will then use AVGAS 115/145 and no requirement will exist for the 100/130 grade.

3. Necessity for Quality Control

Quality Control during storage and handling of fuels, particularly bulk stocks, is necessary in order to ensure that clean dry fuel is delivered to aircraft. To this end, particularly in the case of AVCAT, stringent measures must be exercised to ensure that water, fungal growth and solid matter are eliminated during all stages of storage and handling. Fungal spores, which are present in all kerosines, germinate at the interface between a water layer and the AVCAT and, if given sufficient time, develop into jelly-like masses. This fungal growth and certain types of bacteria may seriously affect filters, electrical circuits and integral (metallic) fuel tanks in aircraft. Additionally, fuel system malfunction at altitude may be experienced due to freezing of free water particles.

4. Quality Control up to Point of Delivery to RAN—

- (a) The specification requirements for aviation fuels having been nominated by the Superintendent Aircraft Maintenance and Repair, the responsibility for quality control of the fuel supplied from the contractor is vested in the Quality Control Branch, RAAF.
- (b) The DEF (Aust.) Specifications for aviation fuels require that the product "fully meets the relevant specification at the point of delivery to the user authority". This has been drafted deliberately to ensure that the onus is on the supplier to maintain full quality assurance up to the point where he delivers the material to the user. The performance and extent of specification testing at points earlier in the supply chain shall be at the discretion of the Inspecting Authority.
- (c) For practical purposes, the QCB responsibility for RAN Aviation Fuels ceases at the point of transfer from the marketing company's bulk installations. The responsibility for quality control during transit to HMA ships or establishments shall rest with the contractor or the RAN, depending on the mode of transfer used.

5. Deliveries to HMA Ships and Establishments—

- (a) **Documentation**—In all instances where Aviation Fuels are supplied by a contractor to HMA ships or establishments the following requirements shall apply—
 - (i) Deliveries must be accompanied by a Release Note which quotes the relevant test report(s) and batch numbers to enable checks back to source.
 - (ii) All Release Notes issued against deliveries of AVCAT to HMA ships are to indicate test results for flash point, particulate matter and fungal contamination.

Note—The foregoing documentation requirements do not apply where Aviation Fuel supply is effected from other sources, e.g., RFA Tankers, HM ships or establishments, USN. In such instances, however, it is required that issue vouchers state the NATO Code No. of the fuel

supplied and, if possible, in the case of AVCAT (JP-5), the specific gravity and the flash point. Additionally, if test reports are not available, 2 x 1 quart samples should be taken from the loading line. These should be taken in clean well corked dark coloured bottles and retained on board until the fuel they represent is consumed.

- (b) **Receipt Inspection—AVCAT**—Before and during receipt of AVCAT a representative of the Engineer Officer of the receiving ship or establishment shall take samples in containers that permit visible inspection of the fuel. The criteria for the acceptance or rejection of AVCAT are as follows—

- (i) A clear, clean sample indicates acceptable AVCAT is being received.
- (ii) If the sample is cloudy, the delivery operation should be stopped until the source of the cloud is determined by observing the sample—
 - (A) If the cloud disappears at the bottom, air is present and the AVCAT is acceptable.
 - (B) If the cloud disappears at the top, water is present and the AVCAT should be accepted only in emergencies.
 - (C) If the cloud does not commence clearing in 5 minutes, the sample shall be heated to about 25° (F.) above the temperature of the fuel in the tank from which the sample was taken. If the sample clears, the cloud was due only to dissolved water and the AVCAT is acceptable. If the sample does not clear, excessive water is present and the AVCAT should be accepted only in an emergency.
- (iii) If there is obvious visual evidence of solid contamination in the sample the AVCAT should be accepted only in an emergency.

- (c) **Receipt Inspection—AVGAS**—Before and during receipt of AVGAS a representative of the Engineer Officer of the receiving ship or establishment shall take samples in containers that permit visible inspection of the fuel. Fuel should be free from water and sediment and should be perfectly clear. Mistiness or pronounced colour fading is indicative of contamination or deterioration. Colour shall conform to the grade shown on the delivery note, viz.—

AVGAS 100/130—Green.

AVGAS 115/145—Purple.

6. Quality Control of AVCAT and AVGAS on HMA Ships

Revised procedures for Quality Control of AVCAT and AVGAS in HMA ships will be the subject of a separate instruction. These procedures will cater for planned modifications to ships installations. Pending promulgation current Quality Control procedures utilising Millipore sampling techniques for particulate matter and Copper Strip Corrosive Sulphur detection methods are to remain in force.

7. Quality Control of AVCAT and AVGAS at HMA Establishments—**(a) Bulk Storage Tanks—**

- (i) **Removal of Settled Water**—Daily water checks are to be carried out and any water found is to be removed without delay, except in those installations where a water bottom is authorised.

The provisions of this section will not apply to the existing underground storage tanks at HMAS ALBATROSS and Jarvis Bay airstrip until they have been reworked in accordance with current planning.

Note 1—This check may be effected weekly when no movement of fuel is occurring in the installation. In such circumstances the daily check is to be resumed immediately prior to the recommencement of flying operations.

Note 2—Water checks are to be effected immediately prior to receiving fuel into bulk storage and again after a minimum settling period of 24 hours following receipt of the fuel.

- (ii) *Filters*—Filters are to be inspected at least once per week, cleaned as necessary, and any defects remedied at once.
- (iii) *Internal Preservation*—In any instance where a fuel installation is likely to be out of service for a period exceeding three months, pumps, fans and motors are to be given adequate protection either in situ or by transfer to store. Water-displacing fluids are not to be used for the internal protection of aviation fuel tanks as they are difficult to remove completely and they affect the water reaction of the fuel.
- (iv) *Periodical Inspection*—Bulk storage tanks are to be cleaned, if practicable, whenever liquid level falls below suction and in any case at intervals of not more than one year.

CAUTION—Never clean Aviation Fuel Tanks by the chemical cleaning processes using solvent emulsifier type compounds. Small quantities of the chemical type cleaners remaining in the tanks after cleaning will contaminate the coalescer elements in the filter/separator and destroy their coalescing ability.

(b) *Fuel Dispensing Equipment (including Hydrant)*—

- (i) *Identification and Grade Marking of Vehicles and Equipment*—All refuelling vehicles and equipment are to be prominently marked with the grade, designation and the code symbol appropriate to the grade they carry.
- (ii) *Internal Inspection of Vehicle Tanks*—Refuelling vehicle tanks are to be inspected internally at intervals not exceeding twelve months. They are to be cleaned internally as necessary and, in the case of internally protected tanks, any defects in the protective lining are to be remedied.
- (iii) *Filters*—The filters fitted to refuelling equipment are to be inspected, cleaned and serviced periodically as necessary.
- (iv) *Fuel Delivery Nozzles*—The filters in the delivery nozzles are to be inspected at least once a week and cleaned or repaired as necessary. The nozzle dust caps are to be inspected for security daily. They are to be removed only during actual refuelling operations and replaced immediately afterwards.
- (v) *Water and Sediment Checks*—It is required that fuel delivered to aircraft from fuel dispensing equipment be clean and bright, free from suspended solid matter and contain no detectable free water at the ambient temperature of refuelling. To ensure that this requirement is satisfied and to ensure that strainers, filters

and separators fitted to refuelling equipments are functioning efficiently in removing suspended solid matter and water, all refuelling vehicles and equipment are to be *visually* tested for water and sediment on the following occasions—

- (A) At the start of each day, before refuelling operations commence.
- (B) After each occasion on which the tank has been refilled. The bulk product is to be allowed to stand as long as possible (preferably at least 20 minutes) before sampling.

Note 1—Sampling—Where practicable the test is to be done by draining a sample from the appropriate points into a suitable container for visual examination.

Note 2—Sample Inspection—Samples must be "clean and bright and contain no free water". The terms "clean" and "bright" are independent of natural colour of the fuel. "Clean" means the absence of any cloud, emulsion, readily visible sediment or entrained water. "Bright" refers to the shiny appearance of clean dry fuels. A cloud, haze, specks of sediment, or entrained water, indicates that the fuel is probably unsuitable and points to a breakdown in filter/separator elements.

Note 3—Product Rejection—If large quantities of water or solids are found, refuelling shall be suspended and the reasons for contamination shall be investigated and rectified if practicable. A Millipore sample (see Appendix A) should be taken where excessive solid matter contamination is evident or suspected and refuelling from the equipment in question suspended until laboratory analysis has established the extent of contamination. For information, AVCAT fuel deliveries from dispensing equipment to aircraft should not contain more than 0.2 mg/litre of solid contaminants and shut-down of equipment shall be effected if a level of 1.0 mg/litre is reached.

(c) *Particulate Matter Determination (AVCAT)*—For routine control purposes a particulate matter check by the Millipore method shall be effected on AVCAT stocks at quarterly intervals. For these checks, samples are to be drawn from the outlet of each dispensing unit whilst filling a road tanker. Procedure to be observed is shown in Appendix A.

(d) *Microbiological Contamination Control (AVCAT)*—

- (i) Whenever Millipore samples are taken, microbiological monitors should also be obtained (1-litre samples) from the same points and, additionally, a 1-litre fuel sample should be drawn from the flexible flushing line of the Millipore Sampling Device to enable a laboratory check for corrosive sulphur.

Note—One-litre brown bottles, DSN 8125-66-019-2650, or in emergency dark coloured whisky bottles, rinsed with fuel, may be used for corrosive sulphur check samples.

- (ii) When obtaining samples at the point of delivery to aircraft it is desirable that each fuel storage tank be used in turn so that the information obtained can be related for each and every stowage.
- (iii) The procedure to be observed for microbiological checking is shown in Appendix A.

(e) Filling of Refuelling Vehicles and Equipment—

- (i) Check cleanliness of tanker by a visual examination of a residual fuel sample.
- (ii) When filling, check to ensure that the correct grade of fuel is being filled and allow as long a settling period as possible after filling (preferably at least 20 minutes) and then test for water and solids as per Paragraph 7 (b) (v).
- (iii) When filling from packed fuel stocks, fuel contained in drums, jerricans, tins, etc., is to pass through the refueller dispenser filter or an approved filter system before entering an aircraft tank.
- (iv) The container markings are to be checked to ensure that the correct product is being used.

8. Quality Control of Defuel Material—

- (a) Aviation fuel stored in the tanks of aircraft is subject to rapid "weathering" (deterioration). Aviation fuel stored in aircraft tanks for a period of six months or more in temperate conditions is to be drained from the tanks and fuel system and ditched. The aircraft tanks are to be cleaned by flushing with fuel and then refuelling with fresh fuel of the appropriate grade before being brought into service.
- (b) In tropical or sub-tropical areas, aviation fuel stored in aircraft tanks for three months or more is to be considered suspect and dealt with as in Paragraph 8 (a) above.
- (c) When fuel from aircraft tanks is returned to a refueller or to ship's tanks the defuelling arrangements are to be such that the dispensing filters are not used in reverse.
- (d) In the case of aviation fuel disembarked from HMA ships, arrangements are to be made through the Captain of the Port, Sydney, for the taking of samples of the fuel delivered to Lighter tanks. (See Note.) These fuel samples are to be submitted to the Defence Standards Laboratories for NATO Type A tests (full specification). The results which will be reported to SAMR, with copies direct to authorities concerned (e.g., ships, Fleet Technical Officer, C of P, Sydney), will recommend whether the fuel can be held for return to the ship or requires treatment or transfer to shore establishments, etc. The decision on acceptability or otherwise will be made and communicated by SAMR.
- (e) Should the holding period of disembarked fuel exceed two months, NATO Type B-1 tests (see Appendix B) are to be carried out by arrangements similar to those in Paragraph 8 (d) above to determine suitability of the fuel for use. Fuel accepted by SAMR as fit for use must be transferred to ship or establishment within fourteen days of SAMR's notification of acceptance. If not transferred within this time limit the fuel must be retested for acceptance.

*Note—*The responsibility for ensuring lighters are in a clean condition for the receipt of aviation fuel rests with the Captain of the Port, Sydney.

APPENDIX A**Fuel Sampling by the Millipore Method**

The Millipore fuel sampling technique is to be used for determining the cleanliness of aviation fuels. This technique provides for two types of fuel sampling—

- (a) Particulate matter (solid contaminant).
- (b) Microbiological (fungal growths).

2. The principle of operation of this sampling method is to assess, by laboratory analysis and processing, the amount of solid matter or fungal growth retained on a monitor membrane (or filter) after passing a measured amount of fuel through an appropriate monitor used with the kit.

Instructions

3. The sampling kits contain one carton of particulate matter monitors which are to be despatched as required for pre-weighing to—

Defence Standards Laboratories,
PO Box 50,
ASCOT VALE, VIC.

or

Defence Standards Laboratories,
Bourke Road,
ALEXANDRIA, NSW.

marked for the attention of Fuels and Lubricants Section and quoting this navy order as the authority. Microbiological monitors are not supplied with the kits. Requirements are to be demanded (Ident. No. 6630-PN-MAGB-037PO, Monitor, Field Millipore) from SNSO, Sydney.

4. DSL staff will weigh, serially number and register each particulate matter monitor. The weighed particulate matter monitors will be distributed by DSL in suitable mailing containers complete with identification and information labels which are to be completed by the user ship or establishment when the sample has been taken. The maximum shelf life for monitors is twelve months and monitors are to be used on a first in first out basis so that accrued shelf life will be kept to a minimum.

5. Before using the Millipore fuel sampling kit the following points are to be clearly understood—

- (a) Pressure at the sampling point is not to exceed 100 psi as membrane rupture may result if the line pressure or combined line and surge pressures exceed this figure. During sampling do not shut off any valve on the installation or vehicle until the three-way valve of the Millipore bomb sampler has been turned to the OFF position.
- (b) Strict precautions must be observed with regard to cleanliness during the sampling operation. Each particulate matter monitor has been pre-weighed to the nearest 0.05 milligram and each microbiological monitor has been sterilised. For obvious reasons, particular care must be taken to ensure that no contamination of the monitor is permitted other than from the fuel being sampled.

(c) If at any stage the monitor is opened inadvertently, it should be destroyed.

APPENDIX A—continued

6. Cleaning of Sampling Kit Components—

- (a) Store the Millipore kit and monitors in a dustproof room or cupboard.
- (b) Immediately before and after taking a Millipore fuel sample, clean the components of the sampling apparatus by washing them in methylated spirits. Flush the fuel sampling hose with methylated spirits.
- (c) Dry out the components on clean paper in a dustproof atmosphere.
- (d) Protect the components and hoses in polythene bags or non-fibrous wrapping when not in use.

7. Sampling Procedure

The sampling procedure detailed below is to be read in conjunction with the operating instructions located inside the lid of the Millipore carrying case—

- (a) A NVE sampling valve will be fitted at the appropriate point in the hydrant or storage installation or fuelling vehicle. To prevent the entry of contaminant, ensure that the valve cap is in place when the valve is not in use.
- (b) *Inserting the Monitor*—Unscrew the bomb sampler cover. Clean the outer surface of the monitor with Kleenex tissue or Paper Machinery Wipers and remove the protective plugs from the monitor openings; first the red plug from the bottom (spoke side) then the blue plug from the top. The plugs should be placed in a clean receptacle and retained in a clean condition until the sample has been taken. Insert the monitor into the bomb sampler SPOKE SIDE DOWN and plain side of monitor in contact with the "O" ring in other half of the bomb.
- (c) *Assembling the Bomb Sampler*—Screw the bomb sampler base up into the bomb sampler cover and tighten firmly. Connect the by-pass hose from the three-way valve into either hole in the side of the bomb sampler base and insert the plug in the other side. The plug is not to be inserted for bottle sampling; provision must be left for venting of air as the bottle fills.
- (d) *Attaching the Bottle*—
 - (i) *Direct Bottle Sampling Method (Normally Used for Microbiological Sampling)*—Select the appropriate polyethylene sample bottle and screw it onto the base of the bomb sampler.
 - (ii) *Remote Sampling Method (Normally Used for Contaminant Sampling)*—Attach the remote sampling adaptor and hose into the base of the bomb sampler.
- (e) *Connecting the Bomb Assembly to the Sampling Valve*—With the three-way valve in the OFF position and the hose connected to the Millipore bomb, remove the protective cap from the sampling valve in the installation or fuelling vehicle and connect the NVE self-sealing sampling valve connector.
- (f) *Flushing the Inlet Hose*—With the test system operating, turn the three-way valve to FLUSH position (valve handle pointing to the by-pass outlet). Allow approximately one pint of fuel to flow through the by-pass tubing to flush entrained contaminants from the inlet valve, hose and three-way valve.

APPENDIX A—continued

- (g) *Taking the Sample*—Holding the bomb sampler assembly upright slowly turn the three-way valve to TEST position (valve handle is now parallel to inlet hose) and allow the appropriate amount of fuel to flow through the monitor. (See Paragraph 13 for sample sizes and flow rates.) Upon completion of the sampling operation and before closing any valve or before turning off the installation or vehicle pump, turn the three-way valve to the OFF position again.
- (h) Disconnect the bomb and hose assembly from the pressure line sampling valve and replace the protective cap on the sampling valve. Remove the bomb sampler base from the bomb sampler cover and take out the monitor.
- (j) *Removing the Excess Fuel from the Monitor*—Insert the angle leg of the syringe gently but securely into the bottom ("SPOKE" side) hole of the monitor. Hold the monitor upright and evacuate the fuel by slowly withdrawing the syringe plunger. (Evacuate excess fuel only from MICROBIOLOGICAL monitors, leaving them in a slightly fuel wetted condition.) Particulate matter monitors are to have all fuel removed. Remove the syringe, recap the monitor with polyethylene plugs and the monitor is now ready for laboratory analysis.

CAUTION—The syringe plunger should never be depressed whilst the monitor is attached to the syringe as rupturing of the filter membrane may occur.

8. Record on the identification and information labels supplied with the monitors, all the required details including the serial number of the monitor, type of sample, location of sample point, quantity of fuel passed through the monitor and settling time of storage or vehicle tank if the sample has been taken from the inlet side of a filter water separator. The mailing container is then to be despatched to the Defence Standards Laboratories as shown in Paragraph 3. (Note—It is essential in the case of particulate matter monitors that these be despatched to the Laboratory which did the original weighing.)

9. On completion of their analysis, D.S.L. will advise SAMR of the test results and will also despatch a copy of the laboratory report to the Engineer Officer of the ship/establishment concerned.

APPENDIX B

NATO Type B-1 Tests on Aircraft Reciprocating Engine Fuels

Water and Solids (visual check).
 Colour (visual).
 Specific Gravity.
 Distillation.
 Corrosion, Copper Strip.
 Existent Gum.
 Reid Vapour Pressure.
 Water Reaction.
 Lean Mixture Rating.
 Rich Mixture Rating.
 Lead Content.

APPENDIX B—continued

NATO Type B-1 Test on Aircraft Turbine Engine Fuels

Water and Solids (visual check).
 Colour (visual).
 Specific Gravity.
 Distillation.
 Corrosion Copper Strip.
 Freezing Point.
 Existent Gum.
 Flashpoint.
 Water Reaction.
 Lead Content (if contamination with leaded fuels is possible, e.g., from multiproduct pipelines).

(ACAE 523/251/53)

RESTRICTED

186—Gun Mountings—4.5-in. Mark 6 Series—Harbour Dynamic Trials

Experience gained in the Fleet supported by recommendations from dockyard authorities has shown the need for amendment of certain tolerances and the inclusion of additional definitions.

2. In order to obtain optimum performance from RPC systems of gun mountings, great importance must be attached to the margin of stability which a system can be given.

3. In order to achieve adequate stability consistent with following accuracy it is usually necessary to relax the tolerance of SHM tuning which, in the past, have tended to be treated as paramount although, as is generally known, a mounting so tuned would frequently be incompatible with its fire control system and would have to be arbitrarily de-tuned—usually by reducing amplifier sensitivity.

4. The philosophy of step-tuning has been developed in an attempt to produce systems which, whilst having acceptable standards of accuracy, consistency, firing throw-off recover time and mechanical reliability, can be expected to "live with" typical gun order jitter.

5. MOD (Navy) has advised that BR 2034—Handbook for Routine Testing and Periodic Trials of Auto Controlled Weapons is being revised to contain more general information by covering the generalities of servo performance, factors affecting performance, the philosophy of testing and tuning and the validity of the same. Moreover, the intention is to provide a chapter which will relate to basic servo theory, all the tests that are carried out on a weapon or director from the time of its shop trials to the completion of SAT's, and on subsequent occasions, in order to provide a better insight for the maintainer in the diagnosis of defects and the interpretation of autographic records.

6. In order to obtain a realistic indication of stability it is necessary to apply a so-called, running step; that is, a positional step of input superimposed upon a constant speed of input. The size of the step and the value of the constant speed shown in the Appendix have been found by experiment to give the least stable indication and hence, if adequate stability is obtained under these particular conditions, satisfactory performance should be maintained under all other conditions.

7. A method of applying a step of input is detailed in BR 928, Page 16, although recent evidence indicates that this method may give misleading results due to an apparent shift of steady state misalignment and a change of pen recorder calibration. A preferred method is to fit a suitable follow-through transmitter between the dummy director transmitter and the amounting coincidence transmitter(s) and apply a controlled step very rapidly by hand.

8. To prevent any ambiguity in regard to the tolerances listed in the Appendix, the following definitions are given—

- (a) *Violent oscillation*—an oscillation in the error record greater than ± 2 minutes of arc for more than four complete oscillations.
- (b) *Settling time*—the time measured from the instant of applying a step input to the final alignment to within $\frac{1}{2}$ minute of arc.
- (c) *Time to first cross*—the time measured from the instant of applying a step input to the instant of first crossing the zero misalignment axis.
- (d) *An overshoot*—the deviation from the zero misalignment axis, after the first cross, which is greater in amplitude than $\frac{1}{2}$ minute of arc.
- (e) *Cyclic oscillations*—an oscillation whose frequency is dependent only upon the mounting speed but whose amplitude depends upon the tuning of the mounting. On no account should any attempt be made to tune out a cyclic.
- (f) *Overshoot ratio*—the ratio between the maximum amplitude of the first overshoot and the initial step amplitude.
- (g) *Resonant frequency*—the frequency at which the magnification is a maximum.
- (h) *Anti-resonant frequency*—the frequency at which the magnification is a minimum.
- (i) *Noise*—unwanted oscillations not specifically due to instability or cyclics.
- (j) *Run in time*—the time taken for the mounting to "run-in" from a large misalignment, to final alignment to within 2 minutes of arc.

9. Note—

- (i) Tolerances marked * must be met if the mounting is to be sufficiently reliable and accurate. If the need arises in particular circumstances, unstarred tolerances may be temporarily waived. Should a mounting fail to meet the tolerances marked * at trials subsequent to installation or refit, the circumstances are to be reported together with the servo settings (e.g., gain, phase advance values, etc.), appropriate autographic records and the considered reasons for the cause of failure.
 - (ii) All mountings should be tuned for stability. It should, however, be possible in practice to obtain SHM errors both with and without ACU well within the tolerances quoted without loss of stability.
 - (iii) The RPC tolerances given in the appropriate shop trial report are superseded by the Appendix to this order.
10. The tests and associated tolerances listed in the Appendix are applicable—
- (a) At installation trials in new construction ships.
 - (b) At pre-refit trials (for establishing the presence and nature of defects).
 - (c) At routine testing and tuning in accordance with the relevant planned maintenance schedule.
 - (d) Subsequent to a major repair or component change on the mounting.
 - (e) On setting to work subsequent to refit.

11. The tests to which these tolerances apply, previously known as GET 2, are to be presented at the commencement of the Harbour Acceptance Trials (Gunnery) and are to be included in the report of that trial. The records obtained at pre-fit trials are to be dealt with in accordance with BR 292 (1959), Chapter II, Paragraph 75. The records obtained in other circumstances are to be retained in the ship until major overhaul or repair invalidates them.

APPENDIX

Mounting 4.5-in. Mark 6 Series RP 40/RP 41

Part "A" Fine Tolerances

		Input	Settling Time* less than	First Overshoot Ratio less than	Remarks	Nominal Value of Resonant Frequencies	Calibration of Pen Recorder
(1)	Stability condition without ACU	7 min. Steps on 4°/sec. Both directions of stepping and rotation	1 sec. (TR) 0.7 sec. (EL)	0.3 (TR and EL)	The amplitude of sustained oscillations at the first resonant frequency and the amplitude of any oscillation at the second or higher resonant frequencies should not exceed $\pm \frac{1}{2}$ min.	2 c/s; 8 c/s; 24 c/s (TR) and 4 c/s for Mod. 3 Mtgs. only 3 c/s; 24 c/s (EL)	1 small paper division equals 1 min. of misalignment $\frac{1}{2}$ in./sec. paper speed

		Input	Allowable Mean* Misalignment	Allowable Cyclic* and Noise Errors	Remarks*	Calibration of Pen Recorder
(2)	Constant speed (Note—Records taken at 20°/sec. are not starred tolerances)	8°/min. 2°/sec. 5°/sec. 10°/sec. 15°/sec. 20°/sec.	$\pm \frac{1}{2}$ min. ± 2 min.	$\pm \frac{1}{2}$ min. (except for 52T wheel shaft and 100T, 40T Wheel shaft where tolerance is ± 1 min.)	The amplitude of sustained oscillations at the first resonant frequency and the amplitude of any oscillation at the second or higher resonant frequencies should not exceed $\pm \frac{1}{2}$ min.	As in (1) above

		Input	Allowable Total Misalignment*	Remarks	Calibration of Pen Recorder
(3)	SHM with ACU ..	$\pm 30^\circ$ in 11 sec.	± 7 min. (Notes—(i) In general, the end of roll peak due to friction should not exceed 4 min. (ii) For mountings fitted with Mark 13 AA ACU the misalignment for both (TR) and (EL) should not exceed ± 8 min.)	No oscillation which persists for two or more complete cycles at amplitude of ± 1 min. or more is allowed to exist unless it can be shown to be due to cyclic or noise oscillations tolerances above (2)	As in (1) above

		Input	Allowable Total Misalignment	Remarks	Calibration of Pen Recorder
(4)	SHM without ACU	$\pm 30^\circ$ in 11 sec.	± 25 min. (Notes—(i) In general the end of roll peak due to friction should not exceed 5 min. (ii) When peaks exceed 5 min. every effort is to be made to reduce the peak instead of reducing the overall misalignment by tightening the servo loop)	As in (3) Note (i) above	As in (1) above

Part " B " Coarse/Fine Motion Tolerances (with ACU)

		Input	"Run-in" Time* less than	Maximum Velocity greater than	Maximum Acceleration greater than	Maximum Deceleration greater than	Remarks	Calibration of Pen Recorder
(1)	"Run-in" performance	From 0° elevation to 60° elevation } (EL) From 60° elevation to 0° elevation } From 30° green to 30° red } (TR) From 30° red to 30° green }	5.5 sec.	20°/sec.	10°/sec. ²	10°/sec. ²	(i) Once in fine the mounting must remain in fine (ii) No change in deceleration at the coarse / fine change over point	(i) Misalignment 2½° equals 5 large paper divisions (10° sector) Misalignment 10° equals 5 large paper divisions (40° sector) (ii) Velocity 1°/sec. equals 1 small paper division (iii) Paper speed ¼-in./sec.

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Part " C " Joystick Tolerances

		Input	Run Time less than	Drift less than	Creep less than	Remarks
(1)	At full joystick movement . .	60° arc elevating } (EL) 60° arc depressing } 60° arc training right } (TR) 60° arc training left }	4 sec.	—	—	System to be free of hunt or oscillation particularly when stationary and at creep speeds
(2)	With joystick central. Measure drift over period of 5 min. TR and EL	—	—	10°	—	
(3)	Creep speed	—	—	—	10°/min.	

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(DWE 736/251/12)

UNCLASSIFIED

**187—Naval Stores General—Curtains and Overcases in HMA Ships—
Conditions of Selection and Allowances**

It has been decided to promulgate allowances of curtains and overcases by means of a Local Establishment List which is now in course of preparation and will be distributed, as soon as possible.

2. Instructions will also be included in the list concerning conditions which must be applied when selecting materials for curtains and overcases. These conditions will be subject to review from time to time and are as follows—

- (a) For navigational reasons if the materials chosen for scuttle curtains contain the colours red, green or blue they are to be lined and such other special measures taken that are necessary to prevent these colours being reflected outboard.
- (b) In the case of HMA ships which have been fitted out to an approved colour scheme, supply will be restricted to the particular coloured material which is a component of the scheme.
- (c) The purchase of double width material for curtains and overcases is limited to \$3.25 and \$3.75 per yard respectively.

(DSAP 514/51/4)



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
26th April, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

188—Change of Titles—The Naval Officer-in-Charge New Guinea and Deputy Naval Officer-in-Charge New Guinea

The attention of the Naval Board has been drawn to the fact that the titles Naval Officer-in-Charge New Guinea and Deputy Naval Officer-in-Charge New Guinea do not reflect their status in regard to the Territory of Papua.

2. Accordingly the titles have been amended to Naval Officer-in-Charge, Papua New Guinea and Deputy Naval Officer-in-Charge, Papua New Guinea.

(AS (NS) 2/4/174)

Section 2

PERSONNEL

UNCLASSIFIED

189—Care of Hearing and Aural Standards for Naval Personnel

The Naval Board wish to draw attention to the great importance of protecting men's ears, by the use of aural protectors (ear defenders), against the many sources of high intensity noise which now exist in the Fleet and which can be injurious to health.

2. It is not possible to give an accurate scientific definition, covering every situation, of the degree of noise intensity which may involve danger.

3. It has therefore been decided that for the present a simple practical rule for determining a "noise dangerous" position will be applied to all positions, whether enclosed or open, which may be affected by high intensity noise both afloat and ashore. This rule is as follows—

If the noise is such that spoken orders cannot be clearly heard when a distance of 2 feet separates the mouth of the speaker and the ear of the listener and the listener has his back to the speaker (that is, he cannot lip read) or when shouted orders cannot be heard at a distance of about 5 feet, then aural protectors should be worn by all in the vicinity.

4. In future inspections, the Captain is to produce for the Inspecting Officer a list of "noise dangerous" positions in his ship. Officers and men are to be instructed that aural protectors should be worn at these positions at all times when high intensity noise may be experienced.

5. The wearing of aural protectors need not prejudice communication; indeed, in certain circumstances in high noise levels, voice communication is actually improved by their use.

6. The following examples of potential "noise dangerous" positions, which will vary in importance from ship to ship and on shore, are given for guidance in drawing up individual lists. These examples are by no means exhaustive and in cases of doubt Captains should seek advice from the Naval Board.

(a) *In Aircraft Carriers When Operating Jet Aircraft*

- (i) Compass Platform.
- (ii) Admiral's Bridge.
- (iii) Flying Control Positions.
- (iv) Aircraft Control Room.
- (v) Flight deck close against island and catwalk opposite island, and the whole flight deck during aircraft launching operations.
- (vi) Catapult Controls.
- (vii) Chockmen.
- (viii) Mirror Control Officer's Positions.
- (ix) Flight deck handlers ready room.
- (x) Gun direction platform.
- (xi) Gun-deck on island.
- (xii) Upper-hanger.

(b) *Ships in General*

- (i) Upper deck of ships during the firing of guided missiles.
- (ii) Positions close to—
 - Guns and rocket launchers.
 - Gas turbines.
 - Modern high speed diesels.
 - Boiler room and other high duty fans, or trunking orifices.
 - Air compressors.
 - Main and auxiliary machinery when at high power.
 - Submarine engine rooms.
 - Diesel generator rooms.

(c) *Ashore*

- (i) Small arms ranges.
- (ii) Air stations and aircraft yards, when close to aircraft engines at full power.

7. The current types of aural protectors, which however may be varied from time to time, are—

(a) *Aural Protector, Sound, Plugs, Vocab. 20010-2*

These plugs are included in the compulsory kits of all officers and men, and are available for issue to Reserve personnel who may be exposed to high intensity noise. The plugs are supplied in three sizes, large, medium and small and the individual fitting of each ear is to be carried out by a Medical Officer who should at the same time impress on the wearer the necessity for aural protection and that damage can be caused to the ears without pain being felt. It should also be explained that a simple and effective means of protection for short periods when aural protectors are not at hand is to place the fingers in the ears.

(b) *Aural Protector, Sound, Muffs, Mark 3, Vocab. 40025*

- (i) These "dumb" protectors are maintained as an item of victualling stores for loan issue to personnel exposed to the higher noise fields where plugs would give inadequate protection, e.g., close to jet aircraft (when capsules are not provided) and modern high speed diesels. When used by flight deck personnel, they are worn under a Mark 3 flight deck helmet.
- (ii) These muffs are very fragile and require extreme care in handling to avoid fracturing the fluid cushions which seal the cups to the head. After return and before re-issue, they should receive a thorough washing in hot soapy water.
- (iii) Scales of allowances for the muffs are shown in Section 5, Part II, of ABR 93—Manual of Victualling Stores.

8. Senior Medical Officers are to ensure that all medical officers are conversant with the correct methods of fitting current types of aural protectors.

9. Officers and men are to be instructed that when working at the "noise dangerous" positions referred to above and other similar positions that may be decided upon, aural protectors are to be worn at all such times. In the highest noise fields it may be desirable to wear both plugs and muffs simultaneously.

10. The wearing of cotton wool, either dry or greased, is not a satisfactory substitute for aural protectors and its use should be discouraged.

11. Cases of loss of hearing arising through neglect to wear proper hearing protection may prejudice a claim to a disablement award.

12. Attention is drawn to the issue of posters (S 1587, 1 to 5) for display in noise-hazardous working positions. These are available by demand on the Superintending Naval and Air Store Officer, Sydney.

13. **Standards of Hearing**

The maximum allowable decibel loss in the worst ear using Australian Standard Audiometers will be—

<i>Standards on Entry</i>	<i>500 CPS</i>	<i>1,000 CPS</i>	<i>2,000 CPS</i>	<i>4,000 CPS</i>
<i>Standard I—</i>				
Seaman, Aircrew, Cadet ..	15	15	15	15
Midshipman, Junior Recruits ..	15	15	15	15
<i>Standard II—</i>				
All other entries ..	25	25	25	40

14. Hearing standards ensure that candidates with inadequate hearing are not taken into the Service, and that personnel with evidence of susceptibility to loud noise are not employed in those branches in which there is an appreciable noise hazard.

15. Before acceptance all candidates attaining Standard II are to be referred to a naval ENT Specialist to exclude aural disease. If acceptable, these recruits may be taken into branches other than Seaman or Aircrew, but their hearing losses may be subject to further assessment by the Medical Director General shortly after entry.

16. With regard to serving members, their hearing is under review every year as part of the Hearing Conservation Programme. Some change in a member's hearing is to be expected, but such change will be considered by the Medical Director General, having regard to the degree and rate of change as well as to the individual's hearing ability and his branch.

17. Measurement of Auditory Acuity

Auditory acuity is to be measured on the following occasions—

- (a) All personnel at Recruiting Centres.
- (b) All personnel on entry at the initial training establishment.
- (c) At any time for any member as necessity demands.
- (d) Gunnery, aviation and submarine personnel, and all personnel constantly employed in "noise-dangerous" positions—to have follow-up tests annually.
- (e) Officers and men of the TAS Branch are to have their ears tested for discrimination (aural aptitude) as a preliminary to all courses for higher specialised rank. Aural acuity will not normally be retested except at the request of a TAS Officer. These tests should be carried out in a TAS Establishment which has the necessary equipment.

18. Recording of Auditory Acuity

The results of tests at the Recruiting Centres are to be recorded in Box 57 of Form AF Med. 1. The results of all other tests are to be recorded on Form AM 5 in triplicate. The original is to be placed in the AF Med. 4 and the duplicate and triplicate copies forwarded to the Medical Director General.

19. Hearing Conservation Programme

- (a) When a member's hearing acuity falls below Standard II Form AM 5A Hearing Conservation Programme Record is to be initiated, in the first instance only, by the Medical Officer of the ship or establishment and Form AM 5 endorsed accordingly. Form AM 5A, together with the duplicate and triplicate copies of the current Form AM 5, is to be forwarded to the Medical Director General where the necessary action will be taken.
- (b) When it is considered necessary to refer a member to an ENT Specialist, Forms AF Med. 7 and AM 5 are to be completed and forwarded to the Medical Director General in the normal way.

20. Officers and Sailors of the TAS Branch

All TAS Officers and candidates for the UC specialist qualification should fulfil the following conditions—

- (a) *Acuity*—To be capable of operating a sonar set without noticeable loss of efficiency, due to poor hearing, and to the satisfaction of his Commanding Officer in consultation with the Senior Medical Officer.
- (b) *Discrimination*—Attain a pitch discrimination of 30 CPS either side of a basic note of 1,000 CPS—
 - (i) UW specialist qualification candidates are not required to conform with (b) above.
 - (ii) A candidate who does not attain a pitch discrimination of ± 30 CPS on first testing, but who can attain a pitch discrimination of ± 40 CPS will not be disqualified in the

first instance. Such candidates will be retested 2 weeks after commencing sonar operating and must then conform with the above standards.

21. It is important that the high standard of aural acuity and pitch discrimination of UC sailors is not impaired by the sailors' being exposed to sudden noises or noises of high intensity. The damage caused by such noises may not be readily apparent to the men themselves even though it may considerably prejudice their efficiency as sonar operators. Tests have shown that there is a risk of temporary deafness being induced by exposure to the high noise levels which occur in engine rooms with diesels running. Care should therefore be taken that the "listener" sailors are exposed to engine room noises for the minimum possible time, but in any case not longer than 10 minutes.

22. This does not preclude the requirement for UC sailors to undergo the annual small arms range course or for their employment as sentries or in landing-boarding parties, provided Commanding Officers ensure that the sailors themselves are aware of the importance of maintaining aural acuity and do in fact wear the aural protector earplugs issued to all personnel, whenever there is danger of exposure to high intensity noise levels.

23. Periodic Examination of the Ears

Officers and sailors of the TAS Branch are to have their ears examined by a Medical Officer every three months in order to discover and correct any irritation caused by the wearing of head-phones (especially in hot climates), disease, wax or any other condition which might reduce their aural efficiency. Personnel in ships not carrying a Medical Officer are to be sent to a ship or establishment where a Medical Officer is borne. It is the responsibility of the ship's TAS Officer to ensure that these periodical examinations are carried out, and to this end the fact that they have been carried out is to be noted in Section 1 of the Torpedo and Anti-Submarine Log (AS 304).

24. Provision of Audiometers

Audiometers are available in the following ships and establishments—

HMAS MELBOURNE
 HMAS PENGUIN
 HMAS KUTTABUL
 HMAS WATSON
 HMAS RUSHCUTTER
 HMAS ALBATROSS
 HMAS NIRIMBA
 HMAS CERBERUS
 HMAS LONSDALE
 HMAS LEEUWIN
 HMAS HUON
 HMAS TARANGAU
 HMA Dockyard, Williamstown.

UNCLASSIFIED

190—Competition—Royal United Service Institution—Gold Medal and Trench Gascoigne Prize Essay Competition, 1967*(DCI (RN) General 17/1967)*

The Gold Medal of the Royal United Service Institution, together with the Trench Gascoigne Prize of 30 guineas sterling, is awarded annually by the Council of the Institution to the author of the winning essay submitted in accordance with the rules set out below.

2. For the 1967 competition the subject of the essay may be chosen from either of the following which rank equally in adjudication—

- (a) "On taking office in 1964, the present Government carried out a far reaching examination of the nation's defence needs, to shape a new defence posture for the 1970s. This is expounded in the 1966 Defence Review.

Discuss to what extent the predictions on which this policy was based are likely to prove valid, and prepare, in Defence Review form, your idea of what a Defence Review to be published five years hence in 1972 might contain."

- (b) "In an era of rapid scientific developments and of significant changes in British national defence policy there is a greater need than ever before for the deeper study and uninhibited discussion of defence problems. Senior officers of the three Services become ever more involved in technical and administrative routine so that there is a danger that the mechanics of their duties engage all their energies to the exclusion of independent and constructive thought.

This study, thought, and discussion can only be done in an institution which is itself unfettered by political associations and which has the prestige to attract the influential and encourage the original.

Discuss how in the future the Royal United Service Institution can meet this need and what steps, if any, should be taken to enhance its status and adapt its functions."

3. Rules for the Competition

- (a) Competitors must be members of the Institution, or persons eligible to become members.
- (b) All essays must be typewritten and submitted complete (in triplicate). They should not exceed 6,000 words, exclusive of tables.
- (c) Care should be taken to avoid classified matter. When reference is made to any work the title of such work must be quoted.
- (d) The essays must be strictly anonymous and each must have a "nom de guerre". They must be accompanied by a sealed envelope with the "nom de guerre" written on the outside and the name of the competitor inside.
- (e) All essays must be sent by either registered post or recorded delivery, addressed to the Secretary, Royal United Service Institution, Whitehall, London, SW1, to reach him by 16th October, 1967.
- (f) The essays will be submitted for adjudication to three referees chosen by the Council.
- (g) Essays will be judged on their general merits, and the expression of views which do not conform to generally accepted opinions will not be considered to detract from their value.

4. Prizes

- (a) The Trench Gascoigne Prize of 30 guineas sterling may be awarded by the Council to the writer of the essay placed first; further prizes may be awarded if the number and standard of the essays submitted justify them, but no award will be made in favour of any essay which does not attain a sufficient standard of excellence.
- (b) If the essay awarded the Trench Gascoigne Prize is considered by the Council to be of the requisite high standard, the writer will also be awarded the Gold Medal of the Institution.
- (c) Awards will be made known and prizes presented at the Anniversary Meeting, and the best essay will be printed in the Journal should it be suitable and of sufficient merit.
- (d) Official sanction will be obtained before publication of an essay submitted by a serving officer.
- (e) All essays submitted will become the property of the Council, absolutely.

(DPS 138/201/147)

UNCLASSIFIED

191—Fees Payable to Medical Practitioners, Radiologists, Radiographers, Speech Therapists, Physiotherapists, Occupational Therapists, Chiropodists and Orthoptists

Navy Order 777 of 1965 is to be amended as follows—

Appendix A—*Item 11 (b)—*

Delete \$2.00 and insert \$2.30.

Delete \$2.25 and insert \$2.60.

Add "These fees apply from 14th November, 1966, until 31st December, 1967, when they are to be reviewed."

Note—" Mileage Allowance"—delete 10 cents and insert 12 cents.

2. All references to £ s. d. in Navy Order 777 of 1965 are to be disregarded.

*(MDG 327/61/37)**(Navy Order 777 of 1965)***Section 3****OPERATIONAL AND TRAINING**

UNCLASSIFIED

192—Diving—Reports of Accidents and Unusual Incidents

Considerable importance is attached to the study of accidents and unusual incidents experienced by divers in all types of equipment. Such study can be of great assistance in experimental work, and in the framing of instructions for diver safety.

2. In the event of any accident or unusual incident a report is to be made by signal without delay in the form indicated in the appendix to this order.

3. Having made this signalled report, a further report under RI Article 5913 is not required nor is the report under RI Article 1602, however, all the information required by Article 1602 must be included in the signal, e.g., by full use of Paragraph (K). When forwarding the written report called for under Article 3601 of ABR 155—RAN Diving Manual, Forms AS 625 (Accident Investigation Report) and AS 3119 (Report of Accident Causing Injury) need not be compiled or forwarded. Attention is drawn to RI Article 4846 covering notification under Commonwealth Employees' Compensation Act.

4. Until ABR 155, Article 3601 is amended the provisions of this order are to apply and the signal format in the Appendix to this order is to be substituted for that in Paragraph 3 of Article 3601.

5. Navy Order 332 of 1966 is hereby cancelled.

APPENDIX

FROM NONSUCH
TO ADMINISTRATIVE AUTHORITY NOIC OF STATE IN WHICH
NOK RESIDES ANRUK OR ANA WASHINGTON IF RESIDENT
IN UK OR USA
INFO ACNB, RUSHCUTTER (PLUS ANY ADDRESSEES REQUIRED BY
RI ARTICLE 1602)

UNCLASSIFIED (Classified at Captain's discretion) PRIORITY

ANO 332/1966

REPORT OF DIVING ACCIDENT OR INCIDENT

- (A) DATE PLACE AND TIME OF ACCIDENT OR INCIDENT
(B) BRIEF DESCRIPTION OF THE CIRCUMSTANCES
(C) PARTICULARS OF MEMBER AND CONDITION (E.G., SATISFACTORY,
NOT SERIOUS, SERIOUS)
(D) MEMBERS DIVING EXPERIENCE
(E) (i) MAIN CAUSE
(ii) CONTRIBUTING CAUSE
(F) RECOMMENDATION TO PREVENT RECURRENCE
(G) WHETHER THE SERVICES OF ANY SPECIALISTS ARE REQUIRED
TO ASSIST LOCAL INVESTIGATIONS
(H) WHETHER NEXT OF KIN NOTIFIED OR ACTION REQUIRED
(J) WHETHER INCIDENT IS LIABLE TO PARLIAMENTARY OR PRESS
COMMENT
(K) ANY OTHER RELEVANT INFORMATION, E.G., AUDSIL, RELIGION,
ETC.—
(i) NATURE OF INJURIES
(ii) WHETHER RETAINED ON BOARD OR NAME OF HOSPITAL
TO WHICH DISCHARGED
(iii) RELIGION OF MEMBER
(iv) RELATIONSHIP, NAME AND ADDRESS (INCLUDING STATE)
OF NEXT OF KIN
(v) IF APPLICABLE—(AUDSIL—SEE RI 1607 (2))

(DTWP 1623/1/53)

(Navy Order 332 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

193—Alteration and Addition Item HMAS SYDNEY

The following Alteration and Addition Item is approved to be carried out in HMAS SYDNEY—

Class List Item No. 339 (Ex TDL "NYAH").

- (a) *Item:* To improve the Ship's Internal Communications by replacing the amplifier systems associated with BC Circuits Type 406M and Type 408.
- (b) An estimated increase of 250-lbs. will have to be compensated by an equivalent weight surrender of army stores.
- (c) *Reference:* HMAS SYDNEY's Memorandum Reference No. 12/1/6 dated 23rd December, 1965.

(CNTS 1213/253/38)

UNCLASSIFIED

194—Diving—One Man Recompression Chamber—Communications

(DCI (RN) 80/1967)

Trouble has been experienced with moisture affecting the loudspeaker on the commercial talk back amplifier fitted to the One Man Recompression Chambers. A new communication system is under development, but meanwhile, existing equipment should be protected as far as possible.

2. The water-proofing of the external loudspeaker should be improved in the following manner—

Remove the gauze sandwiched between the loudspeaker and the amplifier cover and replace by a 4-in. square of 0.005-in. polythene sheet backed by a 4-in. square of $\frac{1}{8}$ -in. thick rubber. The rubber to have a 3-in. diameter hole cut in it.

Pattern No. 0462/5982 plastics film tubing and Pattern No. 0413/4602 sheet rubber may be used for this purpose or salvaged packaging materials which are suitable in size and condition.

3. The amplifier controls are not water-tight and the chambers should be protected by a waterproof cover except when in use.

(DTWP 16/1/72)

195—Will Not Be Issued



RESTRICTED

ANO's 196-207/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
1st May, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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RESTRICTED

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Section 1

ADMINISTRATIVE AND GENERAL

RESTRICTED

196—HMA Submarine OXLEY—Commissioning

HMA Submarine OXLEY commissioned on 21st March, 1967, at Greenock, Scotland.

(AS (NS) 1218/151/224)

RESTRICTED

197—Policy for Air Defence—Introduction

The following policy for Air Defence, having been approved by the Chiefs of Staff Committee, is promulgated for the guidance of all concerned.

Introduction

2. Included in the role of the Air Force is the requirement to provide for the air defence of Australia, her territories and overseas bases. While air defence is primarily an Air Force responsibility, the other Services contribute where appropriate.

3. Definitions for use in air defence papers are attached as Appendix A to this navy order.

COMMAND AND CONTROL

Command

4. Each Chief of Staff will be individually responsible for the command, training and administration of the components of his Service employed in air defence.

Operational Control in Australia and its Territories

5. The Chief of the Air Staff is responsible to the Chiefs of Staff Committee for Australian air defence. He is to appoint an Air Defence Commander for Australia and her territories. Certain elements of the air defence system, deployed under individual Service arrangements should the need arise, will be placed under the operational control of the Air Defence Commander for the purpose of directing and co-ordinating their operational activities. These elements could include—

- (a) Control and reporting (CARU) units;
- (b) Fighter squadrons;
- (c) Surface-to-air weapons;
- (d) Air defence facilities in Naval ships in the Air Defence Operations Area;
- (e) Defensive radio warfare units.

6. For designated Air Defence Operations Areas, the Air Defence Commander will appoint an Area Air Defence Commander who will exercise operational control over those elements of the air defence system deployed in his area to the extent outlined in the preceding paragraph. This will apply also in cases where the air threat to the area of responsibility of a Joint Forces Commander appointed

by the Chiefs of Staff Committee requires establishment of an Air Defence Operations Area in his area. In such circumstances, the single Service Commander (RAAF) will be appointed Area Air Defence Commander under the operational command of the Joint Force Commander.

Operational Control in an Overseas Theatre

7. Australian ground and air forces with an air defence capability engaged in operations in an overseas theatre will be controlled by the appropriate Force Commanders.

DIVISION OF RESPONSIBILITY

Provision of Air Defence Components

8. Service responsibility for the provision of the elements required for air defence is as follows—

(a) Air Force

- (i) Fighter aircraft;
- (ii) Control and reporting units;
- (iii) Radio defensive warfare units;
- (iv) All high-level SAM systems; excluding shipborne systems.

(b) Army

All complex low-level air defence weapons; excluding shipborne systems.

(c) Navy

The Navy is not responsible for the provision of any components specifically for air defence other than air defence involved in the defence of sea communications. However, the following components (if in an Air Defence Operations Area, and if available in an emergency to supplement the established air defence system) shall come under the operational control of the Area Air Defence Commander when being used for air defence of the area—

- (i) Ship's air defence weapons;
- (ii) Ship's radar;
- (iii) Shore radar;
- (iv) Naval fighter aircraft.

- (d) Each service is responsible for providing and manning the simple, low-level systems required for the point defence of installations against low-level ground attack or reconnaissance.

Passive Defence Measures

9. Each Service shall be responsible for the provision of passive defence measures such as camouflage and deception for its own installations.

Communications

10. Division of responsibility for the provision of air defence communications will be contained in the Manual of Joint Warfare titled Joint Tactical Communications which is in course of preparation.

AIR DEFENCE IN AN OVERSEAS THEATRE

11. It is beyond the capability of Australia to provide, independently, a complete air defence environment for her forces committed in South East Asia. Reliance must therefore be placed on the allied air defence arrangements in the theatre, of which components contributed by Australia would form a part. Such arrangements would be determined as a result of policy decided by the appropriate Air Defence Commander, who would be expected to take into account the particular defence requirements of all forces in the theatre and their capabilities in this regard. Australian policy for air defence in an overseas theatre is therefore to provide a suitable contribution to allied air defence arrangements.

APPENDIX A

Definitions for Use in Air Defence Papers

Air Defence Operations Area

A geographical area defining the boundaries within which procedures are established to minimise interference between air defence and other preparations and which may include designation of one or more of the following—

(a) Air Defence Action Area

An area and the air space above it within which friendly aircraft or surface-to-air weapons are normally given precedence in operations except under specific conditions.

(b) Air Defence Identification Zone (ADIZ)

Air space defined dimensions within which the ready identification, location, and control of aircraft is required.

(c) Fire Power Umbrella

An area of specified dimensions defining the boundaries of the air space over a Naval force at sea within which the fire of ships' anti-aircraft weapons can endanger aircraft, and within which special procedures have been established for the identification and operation of friendly aircraft.

2. Simple Low-level Weapons Systems

Those weapons which require small detachments and relatively little training to operate and service. These include small arms, manually laid and controlled automatic weapons up to 20-mm. calibre and manportable, shoulder fired surface-to-air missile systems.

3. Complex Low-level Weapons Systems

Those weapons, including surface-to-air missile systems, defined as anti-aircraft in the primary role, but excluding those simple weapons in 2 above.

(AS (NS) 1600/203/12)

RESTRICTED

198—Policy for Joint Maritime Operations

The following policy for Joint Maritime Operations, having been approved by the Chiefs of Staff Committee, is promulgated for the guidance of all concerned.

INTRODUCTION

2. The roles of both the Navy and the Air Force include the defence of Australia and the Territories against sea-borne attack, protection of Australian and allied shipping in the Australia Area, and contributing to allied maritime operations in South East Asia.

3. Fulfilment of these roles will require joint operations by the RAN and the maritime element of the RAAF. This navy order defines the policy for the responsibility and control of such joint operations.

4. Although this policy statement does not cover the employment of RAAF strike aircraft operating in support of maritime operations, nor of RAAF fighter aircraft operating under the control of RAN ships at sea, requests for the employment of these aircraft will originate from the Maritime Headquarters.

5. Definitions for use in joint maritime operations are given as Appendix A to this navy order.

HIGHER COMMAND AND CONTROL

6. The defence of sea communications in the Australia Area is an integral part of the defence of Australia and the Territories, which is the responsibility of the Chiefs of Staff Committee. The Chiefs of Staff Committee is responsible for the direction of joint operations and for the policy under which they will be conducted.

7. Within policy approved by the Chiefs of Staff Committee, the Chief of Naval Staff and the Chief of the Air Staff will be jointly responsible for the development of procedures for the conduct of joint maritime operations.

8. The Chief of Naval Staff and the Chief of the Air Staff, in conjunction with the Naval and Air Boards, are responsible for the training and administration of the Naval and Air Forces, respectively, employed in joint maritime operations.

Operational Control in the Australia Area

9. The Chief of Naval Staff is responsible to the Chiefs of Staff Committee for the defence of sea communications in the Australia Area and is designated the Operational Control Authority. He is to appoint a Maritime Defence Commander for the Australia Area who is to control a jointly staffed Maritime Headquarters. The Maritime Defence Commander is to command assigned Naval forces, and is to exercise operational control, through the senior RAAF Officer on the joint staff of the Maritime Headquarters, of RAAF elements assigned by the Chiefs of Staff Committee.

10. The Maritime Defence Commander may appoint an Officer in Tactical Command in accordance with principles set down in ATP 1A. The Officer in Tactical Command will exercise tactical control over those elements of the maritime defence forces assigned to him.

11. When the Maritime Headquarters is not activated and forces are not specifically assigned by the Chiefs of Staff Committee, operations or exercises will be conducted under arrangements mutually agreed by the Chief of Naval Staff and the Chief of the Air Staff or their nominated representatives.

Operational Control Outside the Australia Area

12. It is beyond Australia's capacity to provide independently a complete maritime defence environment for forces deployed to South East Asia. Reliance must therefore be placed on allied maritime defence arrangements in other areas, under which elements contributed by Australia would be part of a larger allied maritime force. Such arrangements would be determined by the appropriate Operational Control Authority, who would take into account the particular maritime defence requirements of all forces in the area. Australian policy for maritime defence in areas outside the Australia Area is therefore to provide a suitable contribution to allied maritime forces under conditions which will be decided by the Chiefs of Staff Committee at the time.

13. RAN and RAAF maritime elements assigned outside the Australia Area will be controlled by the appropriate United States or ANZAM Commander in accordance with arrangements agreed by the Chiefs of Staff Committee. The Chiefs of Staff Committee will issue directives and instructions as required.

DIVISION OF RESPONSIBILITY

Provision of Maritime Forces

14. The RAN will provide the following elements of the forces required for the conduct of maritime operations—

- (a) Surface ships;
- (b) Submarines;
- (c) Naval anti-submarine aircraft;
- (d) Naval fighter aircraft;
- (e) Naval SAR facilities;
- (f) The Naval component of the Maritime Headquarters, including the Maritime Defence Commander for the Australia Station; and
- (g) The Naval Control of Shipping Organisation.

15. The RAAF will provide the following elements of the forces required for the conduct of maritime operations—

- (a) RAAF maritime aircraft;
- (b) RAAF SAR facilities; and
- (c) The RAAF component of the Maritime Headquarters.

Communications

16. Division of responsibility for the provision of maritime communications will be contained in the Manual of Joint Warfare entitled "Joint Tactical Communications", which is in course of preparation.

APPENDIX A

Definitions For Use in Joint Maritime Operations

Australia Area

The limits of the Australia Area are as follows—

- (a) *Eastern*—The eastern limits of the Australia Area run from 3° 30' North 169° East, south to 1° South, thence east to 170° East, thence south along this meridian to 30° South, thence to 45° South 160° East, thence south along the 160° East meridian to the Pole.
- (b) *Northern*—The northern limits of the Australia Area run from 3° 30' North 169° East, west to 125° East, thence south to the coast of Celebes, thence west along the coast of Celebes to 120° East, thence south along this meridian to 10° South, thence west to 78° East.
- (c) *Western*—The western limits of the Australia Area run from 10° South 78° East south along the 78° East meridian to the Pole.

Operational Control Authority

The Operational Control Authority (OCA) is the Naval Commander responsible for the control of the movement and for the protection of all allied merchant shipping within specified geographical limits.

Maritime Headquarters

The Maritime Headquarters is the joint headquarters specially established from which the Maritime Defence Commander controls maritime forces through the joint Naval and Air Staff components.

Officer in Tactical Command

The Officer in Tactical Command (OTC) is the senior Officer in Command, or officer to whom he has delegated tactical command.

Naval Control of Shipping Organisation

The Naval Control of Shipping Organisation is the Naval organisation exercising control of shipping during time of war or emergency.

(AS (NS) 1624/201/63)

Section 2
PERSONNEL

UNCLASSIFIED

199—Child Education Allowance—Members Serving Oversea

The maximum payment that may be made per academic year to members in receipt of Category A rates of Child Education Allowance in accordance with NPI 105/132 has been increased from \$860 to \$975 with effect from 1st January, 1966.

2. Eligible members should claim adjustments from Navy Office. Claims should be accompanied by evidence of expenditure.

3. NPI 105/132 which will be amended should be noted accordingly.

(HPB 252/10/9)

UNCLASSIFIED

200—RAN Submarine Sailors—Conditions of Service

The promotion of fully qualified RAN submarine sailors will be authorised from Navy Office in the normal manner having regard to their position on the promotion list. Separate submarine promotion lists in all ranks and categories for which there is a higher rank in submarines are maintained in Navy Office. Where there is no requirement in submarines for the higher rank, sailors are placed on the general service promotion lists.

2. Submarine sailors on general service promotion lists will, in the normal course, revert to General Service when promoted. Any such sailors promoted in the United Kingdom will continue to fill the billet in the RAN submarines for which they have been trained and will revert to general service at some suitable time after return to Australia. The only sailors on the general service promotion list for promotion to the higher rank are LSRP, LCK and LSTD for whom there is no requirement in the submarine branch beyond leading rank.

(DMT 311/201/227)

UNCLASSIFIED

201—Recreational Training and Organised Sport in RAN

Recreational training and organised sport form an integral part of Naval training and complement the general programme of physical fitness training. Individual games assist in making a sailor self-reliant and giving him a sense of purpose. The games promote leadership, comradeship and esprit de corps, and foster co-operation and unselfishness. Both individual and team games are of value in training for war, because they enable an individual to react quickly to an emergency or a changing situation.

2. Recreational training comprises those athletic, sporting or other physical recreation activities which are conducted during a normal Naval training programme. Such recreational training is to be promulgated in the training programme and is to be properly supervised.

3. A recreational training programme is to be arranged to enable personnel to play some game or sport. Particularly encouragement should be given for weaker and less expert players to participate in games. Coaching should be arranged when possible, particularly for recruits and apprentices.

4. For the purposes of this order, organized sport is defined as those athletic, sporting and other recreational activities, outside the normal requirements of a training syllabus, which provide training of Naval value and promote physical fitness, thereby increasing the value of a man to the Service. Such activities are those—

(a) which are sponsored and organised by the Navy; or

(b) in which an officially sponsored Navy team participates.

5. When a team is selected to represent the Navy, a ship or establishment, or a department of the ship or establishment or when a team or an individual is selected to take part in a sporting activity organised by Naval authority any member so selected will be directed to play or participate.

4894/67.—2

6. The following details should be published in the appropriate orders—
- notification of each sporting fixture or event;
 - programme of any practice associated with the fixture or event; and
 - names of members directed to participate.

7. Personnel directed to take part in organised sport (see Paragraph 6) and the practice associated therewith, will be regarded as being on duty. Personnel may participate in, but are not to be directed to take part in, sport which is not officially organised.

(DPS 125/201/7)

UNCLASSIFIED

202—Sailors—Aircraft Artificers and Aircraft Mechanics AE— Qualifications for Senior Sailors in Charge of Maintenance of Detached or Independent Flights

In future the qualifications required for selection as Senior Sailor in Charge of Maintenance of Detached or Independent Flights will be the possession of a Flight Charge Certificate as shown in the appendix to this order. Aircraft Artificers and Mechanics of the AE category will be eligible for selection as Senior Maintenance Sailors.

2. The certificate is to be raised by the Officer-in-Charge of the School of Aircraft Maintenance (Engineering) on completion of the advanced administration course. When the sailor is qualified and recommended, the certificate is to be completed by the Air Engineer Officer and the Commanding Officer of his ship or establishment.

3. On awarding a Flight Charge Certificate, Commanding Officers are to forward the names of the recipients to the Naval Board on Form AS 161a.

4. Navy Order 231 of 1965 is hereby cancelled.

APPENDIX

Flight Charge Certificate

NAME:

RANK:

PERSONAL No.

The above sailor has successfully completed the Advanced Administration Course (Course No. 916210).

Signature.....

...../...../.....

Officer-in-Charge

School of Aircraft Maintenance
(Engineering)

The above sailor is capable in all respects of organising and taking charge of the maintenance of a detached or independent flight.

Signature.....

...../...../.....

Air Engineer Officer

HMAS.....

This is to certify that the above named sailor—

- Has served at least one year in the 1st class rank.
- Has served a total of fifteen months in a squadron.
- Is authorised to take charge of the maintenance of a detached or independent flight.

Signature.....

...../...../.....

Commanding Officer

HMAS.....

(DAMR 303/21/106)

(Navy Order 231 of 1965)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

203—Employment of Minecountermeasures Ships—1967-1968

It is Naval Board Policy to retain as many minecountermeasures ships in commission as circumstances permit. Until it is possible to increase the number of commissioned ships the following programme is to be implemented—

- SNIFE-CURLEW*—Commence minehunter conversion mid 1967 complete December, 1967. After successful post refit trials they are to be commissioned for continuous service.
- HAWK-GULL*—Return to Sydney late April, 1967, destore, deammunition and pay off at WATERHEN. They are to be maintained at 21 days notice until refit commences which will take place on completion of *SNIFE* and *CURLEW*.
- IBIS-TEAL*—Will follow *HAWK* and *GULL* for refit. They are to remain in commission until the completion of *SNIFE* and *CURLEW* and if the manning situation permits until their own planned refit. They are to pay off at WATERHEN.

2. When refitted the minesweepers are to be placed in reserve at WATERHEN, capable of being brought forward at seven days notice.

(AS (NS) 1285/201/61)

UNCLASSIFIED

204—Swimming Training in the RAN

Whilst the Naval Board consider that it would be undesirable if the small minority who cannot swim, despite instruction, were prevented from serving in the RAN, it nevertheless continues to place great importance on the ability to swim.

Officers

2. The Commanding Officers, HMAS CRESWELL and HMAS CERBERUS, are to report on any officers who fail to achieve PST standard—

- (a) Before graduation at RANC.
- (b) Before completion Phase 1, BATC or Basic Supply training for SL Officers.
- (c) During indoctrination courses for other Direct Entry Officers.

Sailors

3. As from 30th April, 1967, all sailors who have not qualified PST before being posted from their initial training establishments will be posted to HMAS CERBERUS for up to one month's intensive swimming instruction.

4. Re-entry sailors who have not previously qualified PST, and who fail to qualify PST during re-entry training, will be posted to CERBERUS for up to one month's intensive swimming instruction on completion of re-entry training.

Reporting

5. Initial Training Establishments are to report by signal the names of sailors who have not passed PST by the date of receipt of posting information or at the time of sending the Initial Training PASSCOR Signal, whichever is the earlier. A PASSCOR signal, followed by a written report, is to be forwarded to Navy Office by CST CERBERUS for sailors backclassified in accordance with Paragraph 3 above who pass or fail PST at CERBERUS. Where sailors fail after backclassing, the report is to include a statement regarding the desirability of waiving the requirement for PST for subsequent promotion.

Categorisation

6. The qualification PST is a prerequisite for categorisation as Survey Recorder.

(DMT 316/4/72)

Section 4**EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

205—Identification of Underwater Breathing Gas Cylinders

Some anomalies currently exist in the markings of underwater breathing gas cylinders as the result of an amendment to Supplement No. 2 to AS CB4-SAA Code for compressed gas cylinders.

2. These anomalies have arisen for the following reasons which require clarification—

- (a) An advance copy of Amendment No. 1 to Supplement No. 2 to AS CB4 was received by the contractor who immediately revised the cylinder markings before the amendment was generally available. This resulted in cylinders with the revised markings being issued before users were aware of the alterations.
- (b) Departmental owned cylinders are marked in accordance with specifications DW 7896 and DW 7897 which stipulate painting in accordance with the SAA code for compressed gas cylinders (AS No. CB4). Supplement No. 2, however, when the amendment was issued there was some doubt as to whether this was applicable and departmental owned cylinders continued to be painted with the old markings.

3. It is therefore to be noted that, since the provisions of specifications DW 7896 and DW 7897 stipulate painting in accordance with the SAA code, all amendments to this code will be automatically applicable to the RAN specifications.

4. In future all underwater breathing gas cylinders will be identified according to Amendment No. 1 to Supplement No. 2 to AS CB4.

(DNS 512/80/261)

UNCLASSIFIED

206—Naval Stores (General)—Cement, Aluminate—Rapid Hardening—Introduction

Following a successful demonstration of a new rapid hardening cement, it has been decided to introduce the undermentioned item into service to replace Class/Group 0474 Cat. No. 7042 Cement, rapid hardening—

Group/Class	Cat. No.	Item Name	D of Q	Acctg. Classn.
5610	66-023-3131	Cement, Aluminate (rapid hardening)	lbs.	Consumable

2. The new item which is available in 50-lb. bags can be mixed either with fresh or reasonably clean salt water. It is easy to handle and sets very quickly and is an excellent repair agent.

3. As this item is comparatively new on the market, the actual shelf life is not known but is expected to be in excess of eighteen months.

4. Supply of the new item will be effected by the appropriate Issuing Authority upon exhaustion of stocks of Cat. No. 7042 Cement.

(DSAP 512/57/198)

UNCLASSIFIED

207—Uniform Clothing “Know Your Size” Poster

“Know Your Size”, a poster detailing wearer measurements in relation to outer uniform garment sizes, has been issued to all HMA ships and establishments. Further copies may be obtained, if required, from the Director of Victualling, Navy Office, Melbourne.

2. This poster is to be prominently displayed in, and/or near, the Clothing Store.

(D of V 917/52/425)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
2nd May, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

208—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During February, 1967

The magazines, pamphlets and amendments to publications, etc., and SC Series contained in the appendix to this order have been distributed to ships and services during February, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of P Series Amendments referred to in the appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 5 (Vol. 1)	Change No. 1 Change No. 2
BR 70	Corrected to 31.12.1965 Cumulative Supplement to 1966 Edition corrected to 31.8.1966
BR 268 (4)	Change No. 1
BR 875 (59)	Change No. 6 Change No. 7
BR 1653	Change No. 18 Change No. 20
BR 1870 (1)	Change No. 8 Change No. 9
BR 1870 (2)	Change No. 8 Change No. 9
BR 2050 (641)	Change No. 6 Change No. 7
BR 2050 (581)	Change No. 6
BR 2062 (2)	Change No. 4 Change No. 5
BR 2111 (5)	Change No. 2
BR 2112 (2) 1961	Change No. 5
BR 2122	Change No. 1
BR 2130 (4)	Change No. 4
BR 2130 (3F)	Change No. 4
BR 2210 (1962)	Change No. 1
BR 2380	Change No. 1
BR 3208	Change No. 3 Change No. 4 Change No. 5
BR 3330	Change No. 3 Change No. 4

SC SERIES

ACP No.	SC No.
ACP 117 (B)	SC 14/66 Correction No. 11/1
ACP 118-1	SC 10/66 Change No. 43

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Aircraft (February, 1967)	Vol. 46 No. 5
Aeroplane	3.11.1966
Aeroplane	27.10.1966
Aeroplane	10.11.1966
Aeroplane	1.12.1966
Aeroplane	17.11.1966
Aeroplane	15.12.1966
Journal of the Institute of Navigation	October, 1966
Journal of the Institute of Navigation	Vol. 13 No. 3
Appendix to the Navy List	June, 1966
US Naval Communication Bulletin	No. 93 dated December, 1966
Civil Defence Information Bulletin	No. 165 dated 29.8.1966
Civil Defence Information Bulletin	No. 166 dated 15.9.1966
Civil Defence Information Bulletin	No. 168 dated 9.11.1966
Civil Defence Information Bulletin	No. 169 dated 14.11.1966
Civil Defence Information Bulletin	No. 170 dated 8.12.1966
Civil Defence Motion Picture Catalogue	Change No. 1 November, 1966
Naval Ships Systems Command Technical Journal	Vol. 15 No. 11
Naval Ships Systems Command Technical Journal	Vol. 15 No. 12
Flight	15.12.1966

MISCELLANEOUS PUBLICATIONS

Publication	Date
NAMAN Vol. 21 N2617-N2621	31.10.1966
NAMAN Vol. 21 NCS2622-NCS2625	30.11.1966
Index of DEF (Aust.) Specifications	November, 1966

ESTABLISHMENT LISTS AND AMENDMENTS

List No.	Amendment No.
AE 28 dated 25.4.1961	Amendments Nos. 1 and 2
RAN LE 32 (1964)	Amendments Nos. 3 and 4
A/S 254 dated 30.4.1964	Amendment No. 1
E 951 dated 27.9.1957	Amendment No. 2
E 1078 dated 1.8.1961	—
E 1349 dated 24.8.1962	Amendments Nos. 3 and 4
E 1350 dated 10.9.1962	Amendments Nos. 3 and 5

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
109A-0001-1	AL 58
109A-0001-2	(AL 1063)-B 649 (Alt. 2 incorp.)
109A-0002-2	(AL 1057)-B 674 (Alt. 1)
	(AL 1056)-B 701
	(AL 1058)-B 702
	(AL 1059)-B 703
	(AL 1061)-B 705
	(AL 1062)-B 706
109A-0001-5	AL 29 and 30
109B-0102	AL 14
109B-0102-5	AL 27, 28 and 29
109B-0103-5	AIL 6/66
	AIL 7/66
	AL 27
116D-0106-3A (N) (Formerly AP 2531S Vol. 3 Part 1 (N))	AL 5 and 6
116D-0102-6A	AL 18
119A-0600-1	AL 75
AVP 84 Issue 1	L 352 (Issue 1)
1086 Book 4 Part 3 (2nd Edition)	AL 127, 128 and 129
1086 Book 4 Part 4 (2nd Edition)	AL 96, 97, 98, 99, 100, 101, 102, 104, 105 and 106
1086 Book 5 (2nd Edition)	AL 128
1086 Book 7 (2nd Edition)	AL 176, 177 and 178
1086 Book 13 (2nd Edition)	AL 234
1181 Vol. 2	(AL 213)-I 3
1181D Vols. 1 and 6 Part 1	AL 45, 48 and 49
1182 (N) Vol. 2	(AL 221)-E 48
1182A (N) Vol. 1	AIL 5/66
1182E (N) Vol. 1	AIL 3/66
1275A Vol. 1 Section 18	AL 116 and 117
1355 D Vol. 4 Part 6 (2nd Edition)	AL 2
1469Q Vol. 6 Part 3	AL 11
1492A Vol. 1	AL 117
1641P (2nd Edition) Vol. 1 Parts 1 and 3	AL 29
1664A (2nd Edition) Vol. 2 Part 3 Book 1	AL 98
1803D Vol. 1 Book 2	AL 69
1803E Vol. 1	AL 182
1803T Vol. 1 Book 1	AL 28
2337 Vol. 1 Book 2	AIL 2/66
	AIL 3/66
2531J Vol. 2	(AL 222)-B 148
	(AL 223)-B 149
2535F Vol. 5 Part 6 (N) (Issue 1)	AIL 1/66
	AIL 2/66
2554E Vol. 2	(AL 17)-B 13
	(AL 18)-B 14
2563EB Vol. 2	(AL 5)-B 1 (Alt. 1)
2887N Vol. 2	(AL 118)-B 73
4288 Vol. 4 Part 6	RAN Information Leaflets Nos. 1, 2 and 3 (Combined)

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
4340 Vol. 1 Book 1	AIL 1/66
4343A Vol. 1	AIL 1/66
4343D Vol. 1 Book 4	AIL 1/66
4343E Vol. 1 Book 1	AL 226
4343E Vol. 1 Book 3	AL 215 and 217
4343P Vol. 1 Book 2	AL 9, 10 and 12
4361 Vol. 6 Part 4	AL 42
4471A Vol. 1 Part 1	AL 146
4471A Vol. 1 Part 2 Book 1	AL 186
4487D, E and F Vol. 5 (N) FS Book 2	AL 23, 24 and 25
4509A and C	AL 1 and 2
4685 Vol. 1 Part 2 Section 4	AL 87
4723 Vol. 6 Part 4	AL 40
4723A Vol. 1 Book 1	AL 123 and 124
4723A Vol. 2	(AL 196)-J 37
4723A Vol. 5 (N) F/S Book 1	AL 19, 20 and 21
4723A Vol. 5 (N) (Issue 1) F/S Book 2	AL 27 and 28
4723A Vol. 5 (N) F/S Book 3	AL 17
4723A Vol. 5 Part 10 (N) Issue 2	AL 13
4737A Vol. 4 Part 6	AL 5
4837AA Vol. 2	(AL 14)-B 10
	(AL 15)-B 11
AP (N) 140	AIL 3/66
AP (N) 400 (Wessex)	AL 7
AP (N) 1024 Vol. 1	AL 41
AP (RAN) 8 Pilot's Notes	AL 12
AP (RAN) 8 Vol. 1 Book 5	AL 18
AP (RAN) 8 Vol. 1 Book 8	AIL (RAN) 3
	AIL (RAN) 4
	AIL (RAN) 5
	AIL (RAN) 6
	AIL (RAN) 7
AP (RAN) 8 Vol. 3 Part 2	AL 61
AP (RAN) 9 Vol. 1	AIL (RAN) 10
AP (RAN) 18	AL 7
AP (RAN) 19 Vol. 2 Book 1	AL 10 and 11
AP (RAN) 19 Vol. 5 F/S Book 2	AL 35
AP (RAN) 19 Vol. 6	AIL 4
	AL 6 and AIL 3 (Combined)
AP (RAN) 101	AL 119
AP (RAN) 108 Part 3	AL 2
AMRA 15 Booklet "I" Section	AL 26
AMRA 15 Booklet "L" Section	AL 14
NW 01-85-SA-30 (FSN 0701-180-1250)	Change dated 15.5.62
	Change dated 1.6.62
	Change dated 1.8.62
	Change dated 15.9.62
NW 01-85-SAD-2-2-1 (FSN 0701-180-1450)	Change dated 15.7.64
	(Interim) Change No. 1 dated 15.10.64
	Change No. 2 dated 15.4.65
	Change No. 3 dated 10.11.65

AMENDMENTS TO AIR PUBLICATIONS—*continued*

<i>AP No.</i>	<i>AL or Leaflet</i>
NW 01-85-SAD-2-3 (FSN 0701-180-1460)	Revision dated 15.10.62 Revision dated 15.12.62 Change dated 15.3.63 Change dated 15.6.63 Change dated 15.9.63 (Interim) Change No. 1 (20.7.64)
NW 03-5CH-541 (FSN 0703-021-1260)	Revision dated 15.8.64
NW 03-5CH-571 (FSN 0703-021-1560)	Revision dated 1.6.59 Revision dated 1.5.63
NW 03-5FB-70 (FSN 0703-021-9620) ..	Revision dated 1.9.65
NW 03-15-38 (FSN 0703-040-0090) ..	Revision dated 15.6.62
NW 03-20CBBC-2 (FSN 0703-050-0540)	Revision dated 15.12.65
NW 03-25-EA-18 (FSN 0703-060-0740)	Change dated 15.12.64
NW 03-30-26 (1.9.62) (FSN 0703-070-0020)	Change dated 15.8.64
Air Pictorial	December, 1966
DCA Aeronautical Information Circular	No. 29/66 (1.9.66) No. 34/66 (1.11.66) No. 35/66 (1.11.66) No. 1/1967 (1.1.67)
DCA Aeronautical Information Publications	RAC/2 (AL 80) (15.12.66) RAC/2 (AL 81) (1.1.67) MAP No. 26 (1.11.66)
DCA Air Navigation Orders Part 20 ..	AL 58
DCA NOTAM	16/11 (15.12.66)
ICAO Bulletin	No. 12/66 Vol. 21
AAP No. 2 Table of Contents (16th Edition)	Sub AL 54 (AL 34648)
AAP No. 2 Appendix 18 Part 1 (1st Edition)	Sub AL 4 (AL 34873) Erratum to Sub AL 4 (AL 34873)
AAP No. 2 GCC 4010 (5th Edition) ..	Sub AL 8 (AL 34255)
AAP No. 2 GCC 4940 (4th Edition) ..	Sub AL 8 (AL 34563)
AAP No. 2 GCC 5821 (6th Edition) ..	Sub AL 27 (AL 33656)
AAP No. 2 GCC 5905 (7th Edition) ..	Sub AL 12 (AL 34197)
AAP No. 2 GCC 5910 (5th Edition) ..	Erratum to Sub AL 11 (AL 33198) Sub AL 12 (AL 34327)
AAP No. 2 GCC 5935 (6th Edition) ..	Sub AL 5 (AL 33801)
AAP No. 2 GCC 5955 (6th Edition) ..	Sub AL 9 (AL 34450)
AAP No. 2 GCC 5960 (6th Edition) ..	Sub AL 30 (AL 33646) Sub AL 31 (AL 33701) Sub AL 32 (AL 34213)
AAP No. 2 GCC 6940 (6th Edition) ..	Sub AL 6 (AL 34668)
AAP No. 2 Group D Section 1A (10th Edition)	Sub AL 7 (AL 34598)
AAP No. 2 Group D Section 1C (11th Edition)	Sub AL 6 (AL 34599)

AMENDMENTS TO AIR PUBLICATIONS—*continued*

<i>AP No.</i>	<i>AL or Leaflet</i>
AAP No. 2 GCC Group F Section 14C (8th Edition)	Sub AL 8 (AL 34162)
AAP No. 2 Group P Section 1 (6th Edition)	Sub AL 7 (AL 34251)
RAAF Notices to Airmen Series A ..	No. 2 (1.9.66-30.11.66)
SCPO	46/1966 dated 14.11.66 49/1966 dated 8.12.66

(DNS 465/57/674)





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
9th May, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 2 PERSONNEL

UNCLASSIFIED

209—Results of Passing Out and Higher Education Test— HMAS LEEUWIN—March, 1967

The pass marks obtained by Junior Recruits at the Passing Out and Higher Education Tests held in HMAS LEEUWIN are shown in the appendix to this order.

2. The results of the above test have been adjusted to the HET standard and the sailors mentioned in the appendix have been granted passes in the subjects indicated.

3. Commanding Officers are to ensure that the Certificates of Service of those concerned are noted in the appropriate section.

APPENDIX
HMAS LEEUWIN
Passing Out Results—March, 1967

Name	Rank	P/N	III Geography	IV Navigation	V Mathematics	VIII English Expression	Remarks
BATTY, Gordon G.	ORDRP	R95389	—	—	—	55	—
BELCHER, Bruce D.	ORDUC	R95391	50	—	—	—	—
BUTTERWORTH, Gregory J. ..	ORDNAM	R95395	—	—	—	70	—
BARLING, Anthony J.	ORDEM	R95387	—	72	—	—	—
BUXTON, Michael L.	ORDNAM	R95396	—	—	—	50	—
CALDWELL, Donald P.	ORDRP	R95397	—	—	—	52	—
CARMICHAEL, Peter	ORDNA	R95398	55	—	—	—	—
CHITTLEBOROUGH, Terence K.	TOPMAN	R95403	50	—	—	58	—
COWLED, Edward J.	ORDEMA	R95406	—	—	—	61	—
DAVIS, Ian H.	ORDEM	R95411	—	—	—	51	—
DAVIS, Ross L.	ORDCO	R95412	—	—	—	50	—
EASTGATE, Wayne A.	ORDSTD	R95416	—	—	—	58	—
FERRARI, Alain S.	ORDEM	R95418	—	—	—	58	—
HISLOP, Stephen B.	ORDCO	R95427	—	59	—	56	—
HURRELL, Peter A.	ORDUW	R95429	50	—	—	63	—
IRONS, Barry J.	ORDME	R95431	—	—	—	50	—
JACKSON, Barry C.	ORDCD	R95432	—	54	—	—	—
KALKMAN, Martin C.	ORDRP	R95435	—	—	—	51	—
KERR, Robert K.	TOPMAN	R95436	59	—	61	50	—
KROLLIG, Peter A.	ORDEM	R95439	51	52	—	—	—
LAWLEY, John J.	TOPMAN	R95441	50	—	—	60	—

4

McDONOUGH, Alastair G. ..	ORDFC	R95449	52	—	—	—	—
McKENZIE, David J.	ORDME	R95458	—	—	—	59	—
MANDER, William E.	ORDCO	R95443	62	57	—	—	—
MAY, Alfred T.	TOPMAN	R95445	57	—	—	62	—
MILLER, Graham E.	ORDCD	R95446	64	—	—	62	—
NEALE, Anthony R.	ORDRP	R95451	50	55	—	54	—
NEWMAN, Terence J.	TOPMAN	R95453	50	—	—	52	—
NICHOLSON, James P.	ORDUC	R95454	—	—	—	56	—
TOY, Robert A.	ORDCD	R95479	58	52	—	50	—
TREW, Dennis	ORDWM	R95481	—	—	—	60	—
VAN-DER-WEL, Phillip	ORDEM	R95483	—	53	—	—	—
WHITE, Michael W.	ORDWM	R95487	—	—	—	53	—
WILSON, Vernon F.	ORDME	R95489	—	—	—	51	—
WOOD, Kenneth R.	ORDWM	R95491	—	—	—	51	—

(HPB 325/53/17)

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Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

210—Heeling Trials—HMA Ships

Heeling trials are to be carried out as follows in HMA ships of size HMAS MORESBY and above but excluding HMAS SUPPLY and DDGs—

- (a) *Shipbuilder's Heeling Trials*—For new construction vessels undergoing modernisation and conversion. These trials are to be carried out while the vessel is in the shipbuilder's hands, after basin trials and before contractors' sea trials. They will be performed with the vessel stationary only.
- (b) *Ships' Heeling Trials*—For ships in commission. These trials are to be carried out—
 - (i) After working up and not later than six months after completion.
 - (ii) Once every commission between refits or once every two years for ships on an annual refit cycle.

Ships which have not previously had shipbuilders' heeling trials are to carry out their own trials at the first convenient opportunity. Ship's heeling trials will be performed with the vessel both stationary and underway. Once the movement of liquids necessary to impose the required heel has been established by actual trial and provided there have been no alterations materially affecting stability, approval for subsequent trials may be given by the administrative authority.

2. In all cases, heeling trials are to be progressed in 5° stages up to a maximum angle of heel of 15° or to such lesser angle as is reasonably obtainable to port and/or to starboard as specified below. At the interim angles of 5° and 10°, sufficient time should be allowed to facilitate the following—

- (a) A general inspection of the vessel.
- (b) Completion of tests specifically required for these angles, and careful observance of the precautions listed in Appendix A.
- (c) Inspection of the machinery as required by Appendix B.

3. At the maximum angle of heel, a comprehensive series of tests and exercises is to be carried out, as detailed below.

4. Officers and representatives to attend the trials are listed in Appendix C.

SHIPBUILDER'S HEELING TRIAL

5. The heeling trial will be confined mainly to matters directly affecting propulsion and maintenance of essential services, such as pumping, flooding and fire-fighting for which the dockyard or shipbuilder is responsible for proper functioning. It will not include trials of equipment for which dockyard and shipbuilders have limited responsibility and for which Naval personnel are essential, e.g., gunnery and radio.

6. The vessel is to be heeled both to port and to starboard. An inclining experiment will be carried out before the heeling trials and separate instructions will be issued by the Naval Board based on the results as to the following—

- (a) Best method of producing heel.
- (b) Tanks to be used.
- (c) Quantities of liquid involved.
- (d) Maximum angle of heel in each case.

7. The trial is to be conducted on the following general lines and a detailed programme is to be drawn up in advance by the contractor in consultation with the General Overseer and Superintendent of Inspection and forwarded for the approval of the Naval Board—

- (a) All main and auxiliary machinery is to be run continuously through trial. The main machinery is to be run as in basin trials.
- (b) Hull and fire pumps are to be used on a flooded compartment and to charge the firemain.
- (c) Fresh water pumps are to be operated.
- (d) Portable pumps are to be tested in conjunction with permanent suction arrangements, and are to be passed through passageways and hatches giving access to compartments in which the pumps are likely to be used for salvage purposes.
- (e) WT doors, hatches and WT covers of ventilation orifices are to be tried for ease of working.
- (f) Selected ventilation fans are to be run.
- (g) WT integrity of ship's side valves above the normal waterline are to be checked.
- (h) The boats on the low side are to be lowered and raised.
- (i) Anchors on the low side are to be veered and hove in.
- (k) Steering gear is to be operated both in power and in hand within the limits laid down for heeling trials (see Appendix A, paragraphs 9 and 10).
- (l) Release of life-saving equipment is to be examined.
- (m) Food lifts are to be raised and lowered (see Appendix A, Paragraph 13).
- (n) Selected fuse release switches, supply, ring main and branch breakers, hand and automatic motor starters, automatic change-over switches, and rotating electric machinery with sleeve bearings are to be operated.

8. The contractor is to arrange for the recording of observations made during the trial. The angle of heel is to be recorded at half-hourly intervals on a black-board mounted in a central position for the information of the trial party.

Action After Shipbuilder's Trials

9. Tanks and compartments which have been flooded with sea water should be emptied and dried out after the trials. Defects arising during the trials are to be made good and any alterations found necessary are to be completed before commissioning. A report of action taken is to be forwarded to the Naval Board.

SHIP'S HEELING TRIALS

10. The trials are to be carried out after the ship's company has had the necessary experience of the ship as a whole and more particularly of the damage control organisation. These trials are intended to give ship's company confidence and to practice them in working the ship when heeled and in exercising the counterflooding organisation. Trials underway should be preceded by stationary heeling trials at anchor.

11. For these trials the vessel is to be in the half oil condition and is to be heeled to both sides during the stationary trial, but only to one side during the underway trial. On completion of the stationary trial, ships may weigh anchor and proceed to sea in the heeled condition. Subsequent underway heeling trials are to be carried out on alternate sides. Heel is to be obtained by the transfer of liquids only.

12. The conduct of these trials is the responsibility of the Captain who is to report to the Naval Board through his administrative authority—

- (a) Notice of dates on which trials are to be carried out.
- (b) Percentages of provisions, water and fuel scheduled to be on board during trials.
- (c) Quantities of liquid to be transferred to produce heel.

Special instructions may be communicated by the Naval Board as found necessary.

13. The following exercises and trials will be carried out—

(a) *For All Ships—*

- (i) Items (a) and (m) of Paragraph 7 observing power and helm restrictions set down in Appendix A.
- (ii) A meal is to be prepared in the galley and taken at action stations (*see* Appendix A, Paragraph 15).
- (iii) Exercises are to be carried out in the operations room and the gun crews are to seek targets.
- (iv) Ammunition is to be passed up from the magazine to the guns.
- (v) A/S mortar loading arrangements are to be tested.
- (vi) All radio equipment is to be operated and aerials rotated.
- (vii) Sonar sets are to be operated on all bearings, dome to be raised and lowered (*see* Appendix A, Paragraph 14).
- (viii) TAS and gunnery weapon and control equipment are to be operated throughout full working range.

(b) *In Addition to the Above, for Aircraft Carriers—*

- (i) Hangar doors are to be operated.
- (ii) Fire curtains are to be raised and lowered.
- (iii) W/T and HF/DF masts are to be raised and lowered at 5° heel only.
- (iv) Aircraft lifts are to be raised and lowered (*see* Appendix A, Paragraph 13).
- (v) Bomb and rocket lifts are to be raised and lowered (*see* Appendix A, Paragraph 13).
- (vi) Cranes are to be trained, luffing and purchase hoists are to be operated (*see* Appendix A, Paragraphs 11 and 12).

Action After Ship's Trials

14. Tanks and compartments which have been flooded with sea water are to be emptied and dried out. A report is to be forwarded, through the Administrative Authority, to the Naval Board (copy to Officer-in-Charge NBCD School) on the behaviour of the ship and of the various items tried or tested.

APPENDIX A

PRECAUTIONS TO BE OBSERVED DURING TRIALS

Heel is to be achieved by the transfer of liquids only. No recourse is to be made to transfer of weights or to the use of helm under way, to achieve heel.

2. The highest state of watertight integrity consistent with conduct of the trials is to be maintained throughout.

3. Ensure that sufficient depth of water is available.

4. Underway trials are to be carried out in calm weather.

5. When heeling ship alongside, which should generally occur in shipbuilder's trials only, check that moorings are slack and that fenders do not trip. Stationary trials when in commission with small ships having unprotected propellers should take place with the vessel moored or at anchor.

6. Secure all movable gear throughout the trial.

7. Before commencing shipbuilder's trial, all side scuttles which may become submerged are to be hose tested.

8. Screw down storm valves to scuppers, etc., for compartments near the waterline to avoid possible flooding back.

9. For trials underway the power used must not exceed two-fifths full power and use of helm is to be avoided except to maintain a straight course. If a turn is necessary speed is to be reduced and the amount of helm used is to be such that the total resultant angle of heel due to transfer of liquids and dynamic effects of the turn does not exceed 20° under any circumstance. In following this instruction due consideration should be given to the effects of wind and sea and the fact that there will already be a considerable amount of rudder angle carried to maintain a straight course (*see also* Appendix B (4)). To clarify the difference between rudder and helm angles the following definitions are to be taken—

Rudder Angle—is the angle between the fore and aft axis of the ship and the chord line of the rudder blade horizontal section.

Helm angle—is the difference in the mean rudder angle required to maintain a straight course and the actual rudder angle.

10. For stationary trials the rudder is to be turned through the maximum angle port and starboard in continuous cycles throughout trial.

11. A/C and/or boat cranes are not to be used at angles of heel exceeding 5°.

12. Mobile cranes on aircraft carriers must not proceed fore and aft at angles of heel exceeding 5°, nor transversely at angles of heel exceeding 14° (loaded) or 10° (unloaded).

APPENDIX A—continued

13. A/C lifts, bomb and rocket lifts and food lifts are not to be used at angles exceeding 5° and should be left unloaded for the duration of the heeling trials.

14. Sonar hull outfits types 7/7A (type 15 only) are not to be raised or lowered when the ship's speed is in excess of 8 knots.

15. Deep fat fryers in the galley must not be used at steady angles of heel in excess of 5° as the thermostatic controls become ineffective.

16. Absorption type domestic refrigerators are to be switched off before commencement of and until completion of heeling trials.

17. When carrying out heeling trials at anchor, where it is proposed to change anchors during the trial, care must be taken to effect the change with the ship upright to avoid trapping the anchor being weighed under the keel.

18. Before the shipbuilder's trial is commenced all handrails, ladders, floor-plates, etc., are to be securely fastened as they would be in service and the proper guards are to be fitted over the flywheels of generators and other auxiliary machines. Steam pipes and other hot surfaces are to be efficiently lagged, particularly where they are liable to be accidentally touched.

19. Where applicable equipment is to be operated throughout full working range both in power and hand.

20. A dummy Seacat missile, in the canister, is to be used when operating the Seacat loading arrangements throughout the full cycle.

21. No service or practice missiles are to be stowed on spigots adjacent to the traveller in use.

APPENDIX B

OPERATION OF MACHINERY DURING HEELING TRIALS

The vessel is to remain at the position of heel for a sufficient time to enable all temperatures (lubricating oil, circulating water, etc.) to reach steady readings.

2. Boilers are to be hand fed throughout heeling trials. To ensure that boiler tubes are submerged during trials, Engineer Officers are to issue specific orders for the minimum water level to be maintained having due regard to tube arrangements and rake of boilers as detailed on ships "As Fitted" drawings together with the maximum angle of heel to be expected during trials under way.

3. Float type regulators should be specially watched for any signs of sticking and if necessary hand operation is to be used.

4. Particular care must be taken over lubrication arrangements especially with regard to the main engines and auxiliary machinery forced lubrication systems. Commanding Officers and other responsible officers are to ensure that notwithstanding any requirements of this order manufacturers' recommendations concerning forced lubrication systems of running machinery are observed.

5. Lubricating oil pressure gauges and associated warning devices, if fitted, are to be in positions readily visible by watchkeepers; if this is not the case appropriate remedial action is to be taken at the earliest opportunity.

6. It is to be verified that all engine room personnel connected with this trial are fully conversant with the action to be taken in the event of a lubricating oil pressure failure to the main engines or auxiliary machinery at excessive angles of heel. Stand by machinery, both automatic and manual start, is to

APPENDIX B—continued

be checked, inspected and where appropriate adjusted to recommended cut-in settings immediately prior to the trial; lubricating oil drain tanks are to be replenished to the maximum operating capacity. Ring type oilers in auxiliaries should be checked particularly in units fitted athwartships (e.g., main feed pumps) and load must not be placed on a unit until it is seen that the lubrication is satisfactory.

7. Electric power for operating TAS and gunnery weapons and control equipment and for ship's general use is to be supplied from the ship's main generators. The aim should be to load fully a number of generators, the generators to be tested being those on the high side or athwartship.

8. Ships having hydraulic power for armament are to operate the hydraulic pumps on full load if possible. In the event of a vessel having more pumps than the demand will take on full load, then the pumps on the high side are to be used.

9. The number of personnel engaged in the trial is to be sufficient so that in the event of untoward occurrences prompt remedial action can be taken. Comprehensive instructions and areas of responsibility are to be given to each individual involved in the trial and these instructions and individual responsibilities are to be issued in separate detailed orders whenever heeling trials are carried out.

APPENDIX C

OFFICERS AND REPRESENTATIVES REQUIRED TO ATTEND

Representatives of the Naval Board will attend the first series of heeling trials for each class, stationary and underway, and will only attend subsequent trials if the results of the previous trials demand it. The representatives will be available for discussion beforehand as required. Dockyard Officers or shipbuilders may also be invited by the Naval Board to send representatives, to enable them to become familiar with the problems associated with the operation of HMA ships under heel and in case there should be defects or deficiencies for which they might be considered liable.

(ACDC 1211/251/66)

UNCLASSIFIED

211—Helmet, Flight Deck, Mark 111—Availability of New Pattern and Scale of Issue

Navy Order 139 of 1967 is to be amended as follows—

Appendix

(a) After Green—45649-2, insert 12 under column headed HMAS MELBOURNE.

(b) After Red, size 4, insert 45659 in lieu of 45669.

(D of V 917/61/57)

(Navy Order 139 of 1967)

UNCLASSIFIED

**212—Naval Stores General—Class/Group 0423—Band Accessories—
Re-reclassification of Accounting Status**

The undermentioned items, which have a relatively short life and have little arising value after use, have now been classified consumable but should be regarded as items of an attractive nature. They will be included in ABR 4 Article 0804 in due course—

Class/Group	Pattern No.	Description
0423	6639	Sticks, drum
0423	6641	Slings, drum
0423	6650	Sticks, side drum
0423	6651	Slings, side drum
0423	6667	Sticks, tenor drums
0423	6674	Brushes, rhythm
0423	6684	Sticks, vibraphone
0423	6847	Skins, plastic, side drum
0423	6648	Skins, plastic
0423	6621	Slings, drum
0423	NP	Slings, tenor drum

(DSAP 512/69/776)

UNCLASSIFIED

**213—Naval Stores General—Sonar Type 170 Directing Gear—
Introduction of Tool, Cable Raising, Catalogue No. 0633/194489**

(DCI (RN) 1608/1966)

This tool has been introduced to assist in the assembly of all Type 170 Sonar Directing Gears. It should be employed to draw plugs, HT with cables (all catalogue numbers) through the centre of the tilt shaft from the bottom and also to lower the same when disassembling.

2. Initial distribution will be effected by SNSO, Sydney, without demand, to the following on receipt of stocks now on order—

HMAS YARRA	HMAS VENDETTA
HMAS DERWENT	HMAS QUEENBOROUGH
HMAS STUART	HMAS CERBERUS
HMAS PARRAMATTA	HMAS WATSON
HMAS VAMPIRE	HMAS SWAN
HMAS TORRENS	

3. E Lists and relevant publications are being amended.

(DSAP 519/67/227)

UNCLASSIFIED

**214—Naval Stores—Identification and Reclassification—Greases
LG-280 and LG-320—Supersession by Grease XG-274**

(DCI (RN) 1183/1966)

The following greases are being removed from general service use, and will be replaced by Pattern 0474/943-9814 Grease XG-274 in applications where LG-280 and LG-320 have been previously specified, except as mentioned in Paragraph 2 below—

Pattern	
0474/910-0502	.. .. LG-280—General Service Grease
0474/910-0503	.. .. LG-320—Automotive Grease

2. The exceptions are—

- (a) LG-280 where used for protective and preservative applications Replaced by temporary protective grease PX103
- (b) LG-280 where used in stern tube bearings Replaced by NEOX lubricants (Navy Order 73 of 1967)
- (c) LG-280 where used as a lubricant with certain Naval armament stores May be replaced by another improved grease; details will be promulgated in due course

3. For all the supersession referred to above, the new greases are compatible with the old, but it is advisable for all systems and components to be cleaned before the changes are made.

4. MOD (Navy) has advised that BR 1336 (Joint Service Handbook of Lubricants) and BR 3009 (Naval Oils Manual), will be amended.

(PME 512/87/205)

(Navy Order 73 of 1967)

UNCLASSIFIED

215—RPC Test Equipment—Operating and Handling

Examination of test equipment returned as unserviceable has shown that the majority of defects have been caused by misuse and handling. The principal damage reported is to Duplex Quick Response Pen Recorders which occurs—

- (a) *When Operating*—Damage to pen arm movements caused by—
 - (i) Attempting run-in (overshoot) and slewing tests before the mounting is at an optimum state of tune, i.e., before an acceptable step input and SHM record has been obtained.
 - (ii) Mal-adjustment of limits, which allows one pen to foul another or to run off the recording paper.
- (b) *When Handling* due to—
 - (i) Failure to stow the pen arms in their securing clips before transit.
 - (ii) General lack of care during transit, especially when moving recording equipment within the ship.

2. It is emphasised that every care must be taken when operating and handling test equipment.

3. Where spares are provided, repairs are to be undertaken by ships staff.

4. Form AS 2022 is to be rendered whenever a Duplex Quick Response Pen Recorder and associated amplifier or dummy director is repaired by ships staff or returned to the Weapon Equipment Depot for repair. A copy of Form AS 2022 is to accompany the Form AS 331 covering the return of the defective item to the Weapon Equipment Depot.

5. Ships and establishments are to fit a label in a prominent position on all Duplex Quick Response Pen Recorders, associated amplifiers and dummy directors, worded as follows—"DELICATE INSTRUMENT—HANDLE WITH GREAT CARE".

6. The present label fitted inside the case of amplifiers reading "RECORDER AMPLIFIER INPUTS ARE TO BE SHORTED OUT WHILE MOUNTING UNDER CONTROL RUNS INTO LINE" is to be removed and replaced with a label worded as follows—"OVERSHOOT AND SLEWING TESTS ARE NOT TO BE ATTEMPTED UNTIL AN ACCEPTABLE STATE OF TUNE IS OBTAINED".

7. Navy Order 284 of 1966 is hereby cancelled.

(DWE 737/51/18)

(Navy Order 284 of 1966)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

216—Books—Textbooks and Instruments for Educational Purposes

Details of the textbooks and instruments approved for use in preparation for educational tests and similar examinations are shown in the appendixes to this order.

2. The allowances of textbooks for this purpose are included in the quantities detailed in the relevant Allowance Lists in ABR 1. The allowances of instruments are shown in Appendix B to this order.

3. The procedures to be followed in demanding, accounting, return, etc., of these textbooks and instruments are covered by ABR 4, Article 1828.

4. Demands for Hydrographic publications required for instructional purposes are to be forwarded to the Hydrographer, RAN Hydrographic Office, Garden Island, NSW.

5. Editions of atlases dated earlier than 1959 may be returned to the appropriate Store Depot, demands for later replacement editions being submitted in the normal manner.

APPENDIX A

<i>Ref. No.</i>	<i>Description</i>
BR 45 (1) ..	Admiralty Manual of Navigation, Vol. I
BR 45 (2) ..	Admiralty Manual of Navigation, Vol. II
BR 45 (3) ..	Admiralty Manual of Navigation, Vol. III
BR 158 ..	Examples in Electrical Calculations
BR 451 ..	Concise Oxford Dictionary
ABR 5030 ..	Pocket Oxford Dictionary
BR 454 ..	Notes on Navigation
BR 455 ..	Arithmetical Notes and Examples
ABR 457 ..	Oxford Australian Atlas (Replacing "New School Atlas of Comparative Geography")
ABR 458 ..	Intermediate English (Aughterson) (Replacing "English for Technical Students")
BR 463 ..	Wall Map—The World
ABR 5061 ..	Wall Map—Australasia and East Indies
BR 551 ..	School Arithmetic (Workman)
BR 552 ..	National Certificate Mathematics, Vol. I
BR 552 ..	National Certificate Mathematics, Vol. II
ABR 5031 ..	Third Year Mathematics (Turner)
ABR 5029 ..	Fourth Year Mathematics (Turner)
ABR 5032 ..	Trigonometry (Hall & Knight)
ABR 553 ..	Teach Yourself Mechanics (Abbot) (Replacing "Elementary Applied Mechanics")
ABR 554 ..	Telecommunications Principles (Renton) (Replacing "Electricity and Magnetism, Part I")
BR 557 ..	Four-figure Tables (Turner)
BR 560 ..	Right Angled Triangle Tables
BR 561 ..	The New Groundwork of British History—Section IV (Warner & Marten)
BR 563 ..	Naval Side of British History (Callander)
ABR 5034 ..	Short History of Australia (Scott)
ABR 5033 ..	New Intermediate Geography (Browne, Herbert & James)
BR 564 ..	The World—A General Regional Geography (Stembridge)
BR 570 ..	Examples in Applied Mechanics
BR 572 ..	World's Wealth (Brooker)
ABR 573 ..	A Handbook of English (Aughterson & Stirling) (Replacing "A New English Course—Stage III")
BR 605 ..	Elementary Algebra (Baker & Bourne)

APPENDIX A—continued

S.G.C.E. Textbooks

Ref. No.	Description
MBR 8744 ..	A Galaxy of Poems Old and New (Parker & Heddle)
MBR 8745 ..	Macbeth (Shakespeare)
MBR 8746 ..	Pygmalion (Shaw)
MBR 8747 ..	The Spy Who Came in from the Cold (Le Carre)
MBR 8748 ..	Australian Heritage (Christensen)
MBR 8749 ..	Precis Writing (Aughterson)
MBR 8750 ..	Uncommon Common Sense (Dow)
MBR 8751 ..	Expressive English (Schoenheimer)
MBR 8752 ..	Modern Times (Hayes & Faissler)
MBR 8753 ..	World Regions and Man, 2nd Edition (Coghill)
MBR 8089 ..	Essentials of Chemistry (Graham & Cragg)
MBR 8754 ..	Descriptive Economics, 6th Edition (Nankervis)
MBR 8755 ..	Mathematics I for Leaving Certificate (Potts & Clark)
MBR 8756 ..	Leaving Maths I (Rowlands & Evans)
MBR 8757 ..	Leaving Maths II (Rowlands & Evans)
MBR 8758 ..	A First Course in Mechanics (Borchardt)
MBR 8759 ..	Physics, 2nd Edition (PSSC)
MBR 8760 ..	Victorian Supplement (PSSC)

APPENDIX B
Instruments

Ref. No.	Description	CER- BERUS	WATSON, ALBA- TROSS	NIRIMBA	LEEUEWIN	Other Shore Establish- ments	MEL- BOURNE, SYDNEY, STAL- WART	Destroyers, Frigates, SUPPLY, MORESBY	All Other Vessels
0461/3718	Set Square, transparent, 45°, 6-in.	25	20	20	150	10	15	5	4
0461/3721	Set Square, transparent, 60°, 8-in.	25	20	20	150	10	15	5	4
0461/3855	Compasses, pencil, "Helix"	25	30	20	300	10	15	5	4
0461/3856	Dividers, Compass, 5-in. ..	25	30	20	75	10	15	5	4
0461/3724	Protractor, celluloid, 6-in. ..	30	30	20	150	10	20	5	4
0552/160100	Rulers, parallel, roller ..	20	20	10	50	5	12	4	2
0461/490	Rulers, boxwood, 12-in. (graduated cms. and tenth ins.)	40	30	36	300	20	25	10	10

(DNES 451/51/9)

UNCLASSIFIED

**217—Forms SA 103—Naval Store Account Permanent Ledger Pages—
Introduction**

New permanent ledger pages, Forms SA 103, which have no loan columns, are being introduced for use in Naval Store Accounting.

2. The new forms have been designed for recording "on/off" transactions in permanent Naval stores, Air stores and spare gear under the control of the Supply Officer. They will allow more postings to be made on each sheet than Form AS 153, which provides for recording of permanent loan issues.

3. Forms SA 103 are to be used in permanent ledgers in place of Forms AS 153 as existing pages for items subject to outright issue are filled and as new items of the type referred to are introduced.

4. Ships and establishments should obtain initial requirements of the new forms from the Senior Inspecting Officer, Sydney, in accordance with ABR 4, Article 1807. As stocks of the forms may not be available concurrently with the issue of this order demands should not be hastened if supply is not made forthwith.

5. ABR, Chapter 18, will be amended.

(DSAP 464/54/677)

Section 7**CANCELLED LIST**

UNCLASSIFIED

218—Cancellation of Navy Order

Navy Order 107 of 1966 having been incorporated in AP (RAN) 140 Royal Australian Naval Aircraft Maintenance Manual (RANAMM) by Amendment List No. 39, Article 125, is hereby cancelled.

(ACAE 1311/51/58)

(Navy Order 107 of 1966)

RESTRICTED

ANO's 219-226/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
19th May, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

RESTRICTED

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221	Unmarried Members—Removal of Furniture and Furnishings.
222	WRANS Officers—Administrative and Technical Categories.
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225	Demands for Naval Stores Used for Air Purposes.
226	Naval Stores—Group Class 0330—Flags—Reidentification to Defence Stock Numbers (DSN's).

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

219—ACNB General Messages

In accordance with Navy Order 724 of 1965 the state of ACNB General Messages as at 1st April, 1967, is shown in the Appendix to this order.

APPENDIX

The following F messages may now be withdrawn—

1966

055—see NPI

068—see RANOPS

078—see NPI

081—see NPI

082—see NPI

102—see NPI

122—see NPI

2. At 0001Z 1st April, 1967, the following F Messages were in force—

1966

070, 071, 073, 097, 117, 121, 128, 133, 134, 135.

1967

002, 007, 009, 010, 013, 017, 023, 024, 026, 027, 028, 029, 030.

(AS (NS) 77/201/38)

(Navy Order 724 of 1965)

UNCLASSIFIED

220—RI—Quarterly List of Navy Orders Affecting

With reference to Page vi of RI, the following list shows those navy orders in force on 31st March, 1967, which amend or amplify RI (as corrected up to Amendment No. 13)—

<i>RI Article</i>	<i>Navy Order</i>	<i>RI Article</i>	<i>Navy Order</i>
Chapter 1 Sec IV	272/1965	1023	571/1966
0347	691/1965	1071	378/1966
	171/1965	1072	296/1965
	710/1965	1122	575/1965
	711/1965	1232	634/1965
Chapter 5	742/1965	1452	475/1965
	117/1966		538/1965
	16/1967	1624	616/1966
	95/1967	1704	393/1965
0505	628/1965	1862A	350/1965
0806	653/1965	1914	690/1966
0823	7/1966	1957	670/1966
0845	605/1966	1957A	
0846	610/1966	2605	779/1965

<i>RI Article</i>	<i>Navy Order</i>	<i>RI Article</i>	<i>Navy Order</i>
3142	{ 245/1966	6246	739/1965
	{ 93/1967	APP 4A	323/1966
3223	{ 135/1965	4B	483/1965
4487	{ 487/1966		{ 497/1966
4909	{ 619/1965	5A	{ 498/1966
5209	{ 676/1965		{ 14/1967
5211	{ 653/1965	10A	{ 174/1965
	{ 509/1966	10B	{ 621/1965
5243	{ 122/1967		{ 756/1965
5801	{ 224/1965	45A	{ 136/1967
6037 }			
6038 }	109/1966		

2. Navy Order 79 of 1967 is hereby cancelled.

(CEO (GS) 465/3/4)

(Navy Order 79 of 1967)

Section 2 PERSONNEL

UNCLASSIFIED

221—Unmarried Members—Removal of Furniture and Furnishings

Subject to the provisions of the succeeding paragraphs of this order, new removal provisions have been approved for unmarried members as follows—

(a) An unmarried member who, because he could not be provided with Service accommodation, is living out in accommodation which he has furnished with his own furniture and furnishings will be eligible for a removal of that furniture and furnishings to the locality of his next posting provided he is again unable to be provided with Service accommodation at the new locality and he requires the furniture and furnishings to furnish the premises in which he will reside.

(b) Where an unmarried member referred to above was living out immediately prior to his discharge or death during service, he may be granted such removal rights (if any) as would have applied had he been a married member.

2. "Posting" for the above purposes means a posting expected to be of at least twelve months duration.

3. No eligibility will arise under the new provisions for—

(a) removal to store or storage at public expense where on being posted a member proceeds from living out accommodation to a new locality where—

(i) living in accommodation is available; or

(ii) living in accommodation is not available and the member obtains living out accommodation but is not eligible for removal of his furniture and furnishings to such accommodation (e.g., the accommodation is furnished).

(b) reimbursement for loss on sale of furniture and furnishings; or
(c) payment of Disturbance Allowance.

4. The above provisions will not affect the eligibility for removals of unmarried members who may qualify for removals under existing provisions. NPI 231/2 (b) and 231/29A are relevant.

5. Cases which in the opinion of the Administrative Authority appear to warrant special consideration may be submitted to the Naval Board.

6. NPI should be noted pending amendment.

(HPB 252/8/68)

RESTRICTED

222—WRANS Officers—Administrative and Technical Categories

As the decision made three years ago, to make all WRANS Officer training common, has proved wasteful of training effort, cross-training in Administration and Communications is to be discontinued.

2. Designation

(a) Those WRANS Officers who specialise in Communications be designated WRANS Officers (C) and will normally be posted to communications billets only. Administrative WRANS Officers will simply be known as WRANS Officers without a special designation.

(b) Should it become necessary at any time to change WRANS Officers from one category to another, an appropriate course or refresher training will be given prior to transfer.

3. Training

In future, all WRANS Officers will be given a common basic training and those destined for communications postings will be given extra specialised training. Courses will be as follows—

<i>Course</i>	<i>Establishment</i>	<i>Duration in Weeks</i>
1. PRE OTC Supply ..	CERBERUS	4
2. PRE OTC Communications	CERBERUS	6
3. OTC	CERBERUS and HARMAN (NO) (10-ADMIN.) (1-NBCD) (2 days First Aid)	12
4. POST OTC Communications	CERBERUS (Crypto and CB's) ..	2
5. POST OTC Communications	HARMAN	3
6. POST OTC Communications	LONSDALE	As required

Note 1—All WRANS Officers will complete Courses 1, 2, 3 and 4. Communications Officers will, in addition, complete Courses 5 and 6.

Note 2—Normally Officer candidates for Communication Specialisation will be selected from the Communication categories.

Note 3—The duration of Course 6 at HMAS LONSDALE will depend upon the professional background of the individual WRANS Officer. This will normally be a four weeks course for WRANS Officers with RO (G) or linguist experience. Other WRANS Officers (C) will, for Course 6, be given "on the job" training in HMAS LONSDALE, the period varying according to experience and aptitude. Such training will not necessarily be given immediately following formal training, but prior to appointment to DNRS.

Note 4—Whenever required, refresher or pre-commissioning training will be given, if practicable before WRANS Officers (C) take up a general service communication posting.

4. Rank Structure

(a) To maintain a reasonable career structure, and based on the present WRANS Officer Establishment, the ratio of WRANS Officers to WRANS Officers (C) and rank to rank will be—

	WRANS Officer	WRANS Officer (C)
Chief Officer	1	—
First Officer	3	1
Second Officer	6	4
Third Officer	12	8

(b) As certain postings in the current WRANS Officer Establishment are approved "in lieu of Male Officers", the above structure will necessarily change from time to time. However, it is intended that a reasonable rank/career structure will be maintained.

5. Categorisation of Serving Officers

Commanding Officers are to forward their recommendations for categorisation of the WRANS Officers under their Command. As far as possible, WRANS Officers will be categorised in accordance with their experience to date, Commanding Officers' recommendations, and their own wishes. This may have to be done progressively to maintain continuity in present postings.

6. ABR 1077 will be amended.

(D/WRANS 312/203/167)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

223—Management Training

The following management courses are held annually—

- Senior Officers' Management Course—for Captains.
- Middle Rank Officers' Management Course—for Lieutenant-Commanders of more than two years seniority and Commanders.
- Junior Officers' Management Course—for Lieutenant-Commanders of less than two years seniority and Lieutenants.

2. The courses will deal with management subjects under five main headings, viz.—

- management psychology;
- principles of management;
- management techniques;
- communication and personal skills;
- structure and fixed procedures of the Service and allied organisations.

3. To ensure that instruction is of the highest possible standard, arrangements are made to obtain the services of lecturers from universities, leading management consultants, the Public Service Board, and other Departments as well as senior officers of the Department of the Navy.

4. Applications to attend these courses will be requested by letter to Administrative Authorities giving the date and venue of each course.

5. Nominations should be forwarded by letter direct to Navy Office, a copy of the letter being forwarded to the Flag Officer-in-Charge, East Australia Area, and the Commanding Officer of the establishment in which the course is to be held.

6. Application should be made as early as possible in order that course composition may be known and detailed arrangements made.

7. Nominations should be accompanied by details of accommodation requirements for officers wishing to attend.

8. Special arrangements will be made for the nomination of officers serving in Navy Office.

9. If after making application an officer becomes unable to attend, this should be reported immediately, by signal if necessary.

10. Navy Order 760 of 1965 is hereby cancelled.

(DFWS 80/1/76)

(Navy Order 760 of 1965)

UNCLASSIFIED

224—Marking of Contaminated or Dangerous Land Areas

Attached as the appendix is a copy of Seastag 2002, which details the system of marking contaminated or dangerous land areas. This system is to be used by authorities as appropriate from 1st July, 1967.

APPENDIX

SEASTAG No. 2002

Details of Agreement

MARKING OF CONTAMINATED OR DANGEROUS LAND AREAS

Agreement

1. It is agreed that the following system of marking contaminated or dangerous land areas will be used by the Armed Forces of SEATO Member Nations.

PART I—MARTIAL CONTAMINATIONS

General

2. For the purpose of this SEASTAG, martial contamination will include such dangers as radioactive contamination, biological contamination, chemical contamination, chemical minefields (or barriers), minefields (or barriers) other than chemical, booby-trapped areas and unexploded bombs. These dangers will always be marked by triangular signs (right-angled isosceles triangle) unless the area is to be abandoned to the enemy.

Colours of Signs

3. The nature of the contamination or danger of the considered area is to be indicated by the colours of the signs. These include—

- (a) the primary colour, used for the background of the front surface and for the entire back surface of the sign;
- (b) a secondary colour, used for additional markings and/or inscriptions on the front surface.

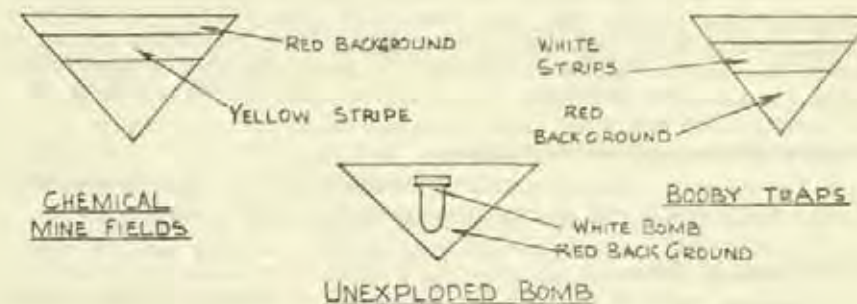
These colours are—

Danger	Primary Colour	Secondary Colours	
		Markings	Inscriptions
Radioactive contamination ..	WHITE	NONE	BLACK
Biological contamination ..	BLUE	NONE	RED
Chemical contamination ..	YELLOW	NONE	RED
Chemical minefields (or barriers)	RED	YELLOW (STRIPE)	YELLOW
Minefields (or barriers) other than chemical	RED	NONE	WHITE
Booby-trapped areas	RED	WHITE (STRIPE)	WHITE
Unexploded bombs	RED	WHITE (BOMB)	NONE

4. The front surface of the sign will face away from the contaminated or dangerous area.

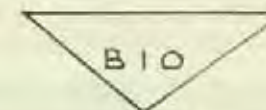
Chemical Minefields (or Barriers), Booby-traps and Unexploded Bombs

5. In the case of danger due to chemical minefields (or barriers), booby-traps and unexploded bombs, the front surface of the sign which faces away from the dangerous area has two colours and will be marked thus—



Minefields (or Barriers) and Biological, Radioactive and Chemical Contaminations

6. In the case of danger due to minefields (or barriers) (other than chemical) and of danger due to biological, chemical and radioactive contamination, the primary colour and the pattern of the signs by themselves will be the principal means of recognising the type of contamination. As a safeguard, the words "MINES", "GAS MINES", "GAS", "BIO" (for biological contamination) or "ATOM", with the optional symbol of a trefoil (for radioactive contamination) will be painted or written with the secondary colour on the front surface. The language to be used for these inscriptions will be selected by the forces erecting the sign. These inscriptions will be written parallel to the longer side of the sign, for example—



Inscription on Signs

7. In addition, when practical, details of biological, chemical and radioactive contaminations will be written on the back surface of each sign. For biological contamination and for persistent or moderately persistent chemical agents, the name of the agent used, when known, and the date and time of detection are required. In cases of radioactive contamination, the following information will be inscribed on each sign—

- (a) The dose rate.
- (b) Date and time of reading
- (c) The date and time of the detonation that produced the contamination (if known).

Multiple Contaminations

8. Areas which contain more than one type of contamination will be marked with the relevant signs placed near to each other.

Special Case of Mined and Booby-trapped Areas

9. All areas requiring marking that contain mines, booby-traps or both, will be fenced on the friendly side by a fence which must reliably warn friendly troops, preferably barbed wire, the lower strand at ankle height and the upper strand at waist height. Fencing on the flank and enemy side may be added when required for protection of friendly troops, and is required in all rear areas.

Marking of Simulated Contaminated Areas

10. The system of marking simulated contaminated areas such as simulated minefields (or barriers) will be exactly the same as for those which are real.

Size and Shape of Signs

11. Existing stocks of coloured triangular signs of slightly divergent shapes and sizes will be retained and used until stocks are exhausted.

12. The triangle will be a right-angled isosceles triangle.

13. The base of the triangle will be approximately 11½ inches (28 cm) and the opposite sides will be approximately 8 inches (20 cm). These dimensions may be varied to suit local material.

14. Triangles will be made of metal, wood, plastic, composition board, or any other similar rigid material available.

Placing of Signs

15. Signs will be placed above the ground, right-angled apex downwards on wire boundary fences, trees, rocks, poles or by putting the apex into the ground. This latter method should not be used if the other methods can be adopted as the signs might well be obscured by grass and other undergrowth. Further, they can be readily knocked down.

Night Signing

16. No standardisation for lighting of signs is specified. Each army will provide lighting or reflecting devices where deemed necessary.

PART II—NON-MARTIAL CONTAMINATIONS

17. Non-martial contamination consists of that contamination resulting from latrines, garbage, soakage and refuse. These forms of contaminations will always be marked by rectangular signs which may be of any colour and any convenient size.

18. When closed, earth mounds will be placed on top of non-martial contaminations and the rectangular sign will be placed on top of the mound. The sign will indicate the type of pit, the date closed and, in non-operational areas, the unit designation.

(AS (NS) 1600/202/154)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

225—Demands for Naval Stores Used for Air Purposes

It is a requirement that stores to be used with Naval Aircraft be subject to special pre-issue testing before they are supplied by store depots to HMA ships and establishments.

2. Currently all Air Stores and those Naval Stores held under Group Classes 0624, 5821, 5826, 5831 and 5841 are subject to the special pre-issue testing as an automatic pre-requisite before issue.

3. However, in view of the predominant use of general Naval Stores for other than Air Purposes, it is necessary for some form of notification to be given to the issuing store depot when these items are demanded specifically for use with Naval Aircraft.

4. In future, demands for Naval Stores, other than those in the group classes referred to in Paragraph 2, are to be endorsed "For Use with Aircraft" when required for this reason.

5. The above requirement will be incorporated in ABR 4, Chapter 6.

(DSAP 501/51/87)

UNCLASSIFIED

226—Naval Stores—Group Class 0330—Flags—Reidentification to Defence Stock Numbers (DSN's)

The new Australian White Ensign, presently held on charge under Local Stock Numbers (LSN's) within Group Class 0330 has been codified to the Defence Cataloguing System and assigned DSN's, and is in future to be held on charge by Catalogue Numbers within Group Class 8345.

2. The item name and description of the item is as follows—

FLAG IDENTIFICATION; Australian White Ensign,
wool/nylon bunting, breadths (as applicable)

Old Identification No.	New Identification No. (DSN)		Breadths
	Group Class	Catalogue No.	
0330-L74186	8345	66-025-9502	2
0330-L74187	8345	66-025-9503	3
0330-L74188	8345	66-025-9504	4
0330-L74182	8345	66-025-9506	6
0330-L74183	8345	66-025-9508	8
0330-L74178	8345	66-025-9510	10
0330-L74179	8345	66-025-9512	12
0330-L74206	8345	66-025-9500	12-in. by 6-in. (Car flag)

As an aid to memory and for ease of reference, the last two digits of the Catalogue Numbers have been made significant, in that they indicate the breadths of the item; for example 02, two breadths, 12, twelve breadths. The car flag which is 12-in. by 6-in. and has no breadth designation has significant digits of 00.

3. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

(DSAP 510/251/5)

RESTRICTED

ANO's 227-228/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
24th May, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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CONTENTS

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SECTION 4—EQUIPMENT, STORES AND SERVICING	
227	Ikara—Defect Reporting Investigation and Repair.
228	Tartar—Defect Reporting Investigation and Repair.

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

227—Ikara—Defect Reporting Investigation and Repair

This order details the procedures to be used for the reporting of Ikara defects, their subsequent investigation and the repair of the defective units.

2. Procedures are grouped as—

- (a) *Missile*—This includes all missile components, wings, fins, tele-senders and explosives.
- (b) *Guidance*—The majority of ship fitted equipments are reported under this group. It includes Guidance, Data Display and Processing, Firing Sequencer, Missile Test Equipments; Stabilizers, Special to type test equipments and System interface defects.
- (c) *Launcher and Handling*—Includes the Launcher Training Control Unit.

3. Missile

- (a) Repair of missiles will not be carried out onboard. A defective item is to be returned to RANAD KINGSWOOD at the first opportunity accompanied by a defect report on Form AS 2022 (GW/AW).
- (b) On receipt at RANAD the item will be retested. Where possible repair of the defective item will be effected at RANAD by replacement of sub-units.
- (c) Non-explosive items other than SVU's that have been certified as defective and are either—
 - (i) Repairable but not within the capability of RANAD.
 - (ii) Non-repairable (e.g., Potted items) but required for defect investigation will be returned to Government Aircraft Factory.
- (d) Explosive items, provided they are safe for handling and transport, will be returned to EFM.
- (e) SVU's will be returned to EMI unless a specific reason exists for their return to GAF.
- (f) In all cases the defective item will be accompanied by a copy of the Defect Report AS 2022 which will include RANAD report detailing the repair and investigation requirements.
- (g) On receipt of copy of AS 2022, SASO will raise a requisition to cover investigation and repair as required in (c), (d) and (e) above. This requisition will refer to the relevant Period Contract, originator's reference number and Form AS 2022.
- (h) A report on the results of the defect investigation will be rendered to The Secretary, Department of the Navy, and the Missile Coordinating Design Authority (GAF).
- (j) Further instructions and reply to AS 2022 originator will then be initiated from Navy Office.

4. Guidance

- (a) A defect repaired within the capacity of ship's staff is to be reported on Form AS 2061Z in the normal manner.
- (b) A defective item/beyond the capability or capacity of ship's staff to repair is to be returned to SNSO or WESO as appropriate together with a copy of Form AS 2061Z. Form AS 2061Z is to be sent to Navy Office in the normal manner.
- (c) On receipt of the defective item in store, SNSO/WESO will raise a requisition for the item to be repaired. Normally the special period contracts raised for this purpose will be used. Details from Form AS 2061Z are to be included on the requisition or a copy of the form attached.
- (d) The ship or establishment in which a defect occurs may raise Form AS 2022 (GW/AW) if the defect is considered to warrant investigation. A copy of the form is to accompany the returned item.
- (e) An item returned to store accompanied by Form AS 2022 (GW/AW) is to be retained in store pending further instructions.
- (f) A preliminary investigation on the submitted AS 2022 (GW/AW) will take place at Navy Office. Instructions on the subsequent disposal of the defective item or a direct reply to the report will then be promulgated.

5. Launcher and Handling

As for GUIDANCE.

APPENDIX

The instructions printed on the cover sheet of AS 2022 (GW/AW) book of forms is to be disregarded and replaced by instructions detailed hereunder.

2. All Ikara defects that fall into one of the following categories are to be reported on Form AS 2022 (GW/AW)—

- (a) Suspected design deficiency or material failure.
- (b) Repetitive component failure.
- (c) Errors in system logic.
- (d) Errors or deficiencies in Installation Design.
- (e) Failures of missiles and SVU on test.
- (f) Unsuccessful practice firings.
- (g) Damage caused by material failure or drill.
- (h) Errors in handbooks (only errors in FINAL HANDBOOKS).

INSTRUCTIONS FOR COMPLETING FORM AS 2022 (GW/AW)**Section 1**

- (a) "Originator"—The ship or establishment in which the defect occurred or was discovered.
- (b) A security classification is to be decided by reference to Confidential Navy Order 28 of 1967 and is to be stamped at the top and foot of each page.

- (c) *Reference No.*—The originator's reference number will be the sole identification of the form and is to be quoted on all later correspondence. The reference will comprise—
- (i) The name of ship or establishment.
 - (ii) The letters IK.
 - (iii) Ship or establishment's serial number is to be continued as a series for the life of the ship.
- (d) Reference to associated AS 2061Z or other correspondence.
- (e) Disposal of equipment under report.

Section 2

- (a) *Weapons System*—GWS Mark F1, 2 or 3 as appropriate.
- (b) *Missile or Equipment*—An equipment is to be described by reference to DW 43965 latest issue.
- (c) *Assembly/Sub-assembly*—To be described by title assigned on drawings to Def. Aust 85A and/or by drawing number.

Section 3—A full description of the defective part.

Section 4—Where explosive items are under report this section is to be used for the description in lieu of Section 3.

Section 5—This section is to detail—

- (i) Modification state.
- (ii) Total running hours.
- (iii) When last tested and type of test.
- (iv) Running hours since last test.
- (v) Other relevant details.

Section 6—The following information should be included in this section which is aimed at establishing the cause and preventing a recurrence—

- (i) Description of how the defect became evident and any effect that it had on equipment or system performance.
- (ii) Actual defect.
- (iii) Probable cause of defect.
- (iv) Reference to previous defects if associated with present report.
- (v) Recommendations to prevent recurrence of the defect.

Section 7—Remarks by ships WEEO or appropriate officer of Establishment raising the form.

Section 8—Details of investigation and subsequent actions.

Disposal of Forms AS 2022 (GW/AW)

(A.) Where Forms AS 2022 (GW/AW) are raised in respect of items of hardware the following distribution shall be made—

Missile

Ship or Establishment forwards: ORIGINAL to RANAD KINGSWOOD
Copy to accompany returned item

After inclusion of results of re-test, INO inspection and the requirements for repair and defect investigation

RANAD forwards

Copies to GAF
SASO (2)
INO (S)
NAVY OFFICE (2)
INO (M)
RETAINED by RANAD

Guidance**Launcher and Handling**

Ship or establishment forwards: ORIGINAL to NAVY OFFICE (DWE)
Copy to accompany returned item

After investigation and inclusion of the requirements for repair and defect investigation

Copies to CDA
SASO/SNSO (2)
ORIGINATOR
INSPECTION AUTHORITY
RETAINED by DWE
ORIGINATOR ADMINISTRATIVE AUTHORITY

DWE forwards

(B.) Forms raised to support other categories of report are to be forwarded in ORIGINAL only to NAVY OFFICE (DWE). Distribution of copies will be dependent on the nature of the report and subsequent required actions.

(DWE 740/252/408)

(Confidential Navy Order 28 of 1967)

RESTRICTED**228—Tartar—Defect Reporting Investigation and Repair**

Until the RAN repair facility for Tartar has been established and further experience has been gained with the missile, ships and depots are to continue to report defects in Tartar missiles direct to US Naval Authorities on NAVWEPS Form 8000/13 and to RAN Authorities on Form AS 2022 (GW/AW). System failures are to be reported in the normal manner on Forms AS 2061Z.

2. Distribution of Forms AS 2022 is to be as follows—

Original .. RANAD, Kingswood
One copy .. Direct to Navy Office, DWE
One copy .. To accompany returned item

After inclusion of results of retest, INO inspection and the requirements for repair and defect investigation, RANAD forwards—

Two copies .. Navy Office
One copy .. Inspector of Naval Ordnance, Sydney
One copy .. Guided Weapon Repair Facility, St. Marys

3. Additional supplies of NAVWEPS Form 8000/13 will be issued to ships and establishments concerned when received from USN sources.

(DNQA 740/252/905)

RESTRICTED

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3

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Department of Defense, Washington, D.C.

1. This document contains information which is classified as RESTRICTED.

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ANO 229/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
26th May, 1967

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 3
OPERATIONAL AND TRAINING

RESTRICTED

229—Instructional Films Held in the RAN Film Library, Sydney

The appendix to this order lists all 16-mm. instructional films available on loan from the RAN Film Library, Sydney. The list will be renewed annually and repromulgated in navy orders.

2. The procedure to be followed in obtaining loans of films from the RAN Film Library, Sydney, is contained in ABR 4 Naval Storekeeping Manual, Chapter 18, Article 1829.

3. Navy Order 471 of 1965 is hereby cancelled.

APPENDIX

16-mm. Instructional Films Held by the RAN Film Library, Sydney,
as at 1st January, 1967

All enquiries should be made by contacting the RAN Film Centre, Potts Point, or contacting Garden Island, Ext. 434 or 482.

ANTI-SUBMARINE WARFARE

Pattern No.	Title	Part Nos. and/or Reels
A150	Asdic Equipment. Care and Maintenance ..	1-4
A151	Cables. Handling and Maintenance ..	—
A453	Hydrophone Effect and Procedure ..	1-2
A521	Type 170 Asdic and the A/S Mortar Mark 10 ..	1-2
A641	Asdic Contact (Confidential) ..	3 Rls.
A672	This-Is-TAS ..	1
A1270	Asdic—Operation Principles ..	3 Rls.
A1401	Asdic—Elementary Theory ..	4 Rls.
A1651	Sonar Type 193—Classification ..	1 Rl.
C5696	Sonobuoy ..	—
MN6561	Anti-submarine—Close Search—Operation Duet ..	—
MN8321A	The Sonobuoy Indicator Group AN-AQA/I ..	—
MN8322A	The Echo Ranging Sonobuoy—Operation, AN-SSQ-15 ..	—
MN8322B	The Echo Ranging Sonobuoy—Preparation for Use ..	—
MN8497	Explosive Echo Ranging ASW "Operation Julie" (Confidential) ..	—
MN8644	HSS-1N, Instrument and Control System ..	—

ATOMIC WARFARE

Pattern No.	Title	Part Nos. and/or Reels
A519	Protection in Atomic Warfare ..	1-2
A1396	Nuclear Defence—Radiological Countermeasures ..	—
BC1089	Atomic Weapons on Troops in the Field ..	3 Rls.
E687	The Atom Bomb—Its Effects and How to Meet Them ..	1 Rl.
E819	The H Bomb ..	—
E924	Operation Buffalo—Explosion Records ..	—
E1445	Radio Active Fallouts ..	1-3
SFR177	Desert Rock ..	3 Rls.
WD1224	Nuclear Fission ..	—
WD1428	Radiological Defence—Protection Residual Effects ..	—
WD1502	Nuclear Fusion ..	—
14L-6835	Special Safety—"The Hazard" ..	Part 1
14L-6835	Special Safety—Fire Fighting Procedures ..	Part 2
L60139	"Operation Buffalo"—Atomic Tests at Maralinga (Confidential)	—

AVIATION

Pattern No.	Title	Part Nos. and/or Reels
A32	Aircraft Recognition Short No. 8 Part No. 147 The F80 ..	1 Rl.
A118(a)	Fighter Tactics Reel 4 Only ..	1 Rl.
A124	Aircraft Gun Maintenance ..	1-6
A163	How an Aircraft Flies ..	—
A246	Carrier Flying (Obsolescent) ..	4 Rls.
A278	Bomb Supply ..	3 Rls.
A323	Naval Air Reconnaissance (Obsolescent) ..	1-2
A460	Embalming of Aircraft (Obsolescent) ..	2 Rls.
A464	Aircraft Handling Ashore ..	3 Rls.
A481	Air Weapon Training Series ..	1-2
A490	Naval A/C Hydraulics—The Dowty Live-line System ..	1-5
A493	Ditching of Aircraft ..	2 Rls.
A526	Use of Oxygen in Flight ..	—
A581	Aircraft Gas Turbine Parts 1 and 3 Only ..	3 Rls.
A643	Incidents in Runaway Control ..	—
A670	Operation of A/S Helicopters (Confidential) ..	1-2
A1057	Maintaining Aircraft—The Right Way ..	—
A1205	Launch and Recover ..	—
A1394	Steam Catapult Components ..	—
C449	Dowty Hydraulic System ..	3 Rls.
C4600	Packing for the RAF ..	6 Rls.
C5594	Atmospheric Pressure and Winds ..	2 Rls.
C5810	Gannet ..	—
C6134	Aircraft Recognition—Bison ..	—
C6136	Aircraft Recognition—Badger ..	—
C6138	Aircraft Recognition—Flora ..	—
C6140	Aircraft Recognition—Fresco ..	—
C6142	Aircraft Recognition—Mystere ..	—
C6144	Aircraft Recognition—Thunder Streak ..	—
C6146	Aircraft Recognition—Scorpion ..	—

AVIATION—continued

Pattern No.	Title	Part Nos. and/or Reels
C6148	Aircraft Recognition—Canuck	—
C6283	Aircraft Recognition—Brittania	—
C6285	Aircraft Recognition—Super Sabre	—
C6287	Aircraft Recognition—B66	—
CN1-167	Sea Hawks RN	—
E634	Air Parade	—
E635	History of the Helicopter	—
E680	Spotlight on the Flying Sailors (Obsolescent)	—
E699	Powered Flight—The Story of the Century	—
E874	High Speed Flight	1
E1105	High Speed Flight	2-3
FN8909	Danger Stacked Deck—"Flight Deck Safety"	—
MN84B	Fighter Combat Tactics	—
MN2731A-C	Loran—Basic Principles—Airborne Operation and Shipboard Operation	—
MN7969	Story of Naval Aviation	—
MN8432A-C	Helicopter ASW Operations	—
MN8645B	Principles of Airborne CIC	—
MN9325A-B and E	Scouting Instructions Detection Theory of Search—Reconnaissance	—
MN9345E	Protective Measures—Tactical Instructions	—
TF46-2997	Helicopter Flight with External Loads	—
14L-314	Daily Inspection of Spitfires	1-5
14L-3476	Lucero—General	—
14L-3480	Lucero—W/ASV Mark 3	—
14L-3484	Lucero—W/A1 Mark 8B	—
14L-3718	Gee Mark II	1-3
14L-3830	AGLT	3 Rls.
14L-5087	Accident—Prevention Flashes Series 1 Set 1	—
14L-5088	Accident—Prevention Flashes Series 1 Set 2	—
14L-5089	Accident—Prevention Flashes Series 1 Set 3	—
14L-5091	Accident—Prevention Flashes Series 1 Set 5	—
L60100	Aircraft Handling—Hand to Hand Power by Lansing and Bagnall Truck	—
L60114	Flying Careers in the RAN	—
L60117	Accident—Prevention Flashes, Taxiing Brake Pressure and Accidents	—
L60118	Accident—Prevention Flashes, Taxiing Brake Pressure and Accidents	—
L60148	RAN Jets	—
L60158	Rescue by Helicopter	—
L60168	Wings Over the Navy	—

CHARACTER GUIDANCE

Pattern No.	Title	Part Nos. and/or Reels
H529	Story of "Abide With Me"	2 Rls.
H530	From Fear to Faith	2 Rls.
H531	Ruth	4 Rls.
H533	God of Creation	—
H534	God of the Atom	—
H535	Voice of the Deep	—
H538	Dust or Destiny	—
H541	Hidden Treasures	—
H542	The Prior Claim	—
H544	Time and Eternity	—
H555	Shield of Faith	—
H564	Bible Background	—
H1112	Glass Eyes That See	—
H1113	Experiences With an Eel	—
H1229	The Mystery of the Three Clocks	—
H1374	Windows of the Soul	1-2
H1416	The Singapore Story	—
H1442	The Orange Tree	—
H1506	The Red River of Life	1-2
H1633	God of the Atom (Revised)	—
MN5321A	For Which We Stand—Men of the World	—
MN5321B	For Which We Stand—Let's Get It Straight	—
MN5321C	For Which We Stand—To be Held in Honour	—
MN5321D	For Which We Stand—Pulling Your Weight	—
MN5321E	For Which We Stand—Religion in the Navy	—
MN5321F	For Which We Stand—You Think It's Luck	—
MN5321G	For Which We Stand—The Golden Moment	—
MN8751A	The Navy Goes to Church—Thine is the Power	—
MN9243	For Which We Stand—The Chaplain Comes Aboard	—
L60113	Facts or Faith	—

COMMUNICATION

Pattern No.	Title	Part Nos. and/or Reels
A233	Ships' Internal Communications	3 Rls.
A235	Beam Telephony	1-2
A452	Practical Visual Signalling	2 Rls.
A624	Introduction to Naval Communications	—
AM1512	Propagation of EM Waves by the IONOSPHERE	—
MN73	Flashing Light Signal	—

DAMAGE CONTROL

Pattern No.	Title	Part Nos. and/or Reels
E800	Float and Fight	—
MN61B	Damage Control—School of Fire Fighting	2 Rls.
MN61F	Damage Control—Elements of Stability	—

DEFENCE

Pattern No.	Title	Part Nos. and/or Reels
A238	Smoke-screening at Sea	1-5
A472	Defence Against Chemical Warfare (Restricted) ..	1-2
A565	A/A Defence on Ships (Restricted)	1-2
A595	Interception Technique	1-5
MN9323A	Surface Screens for a Combatant Force at Sea (Confidential)	—

ELECTRICITY AND ELECTRONICS

Pattern No.	Title	Part Nos. and/or Reels
MN8263A	Signal Presentation and Analysis	—
TF1-213A	Basic Electricity	2 Rls.
US1596	Infra-red	—
L60105	Chemical Effects of Electricity	—
L60145	Primary Cell	—
L60161	The Transistor—Its Principles and Equivalent Circuits	—
L60162	The Junction Transistor in Radio Receivers—Design of AN1F Amplifier	Part 1
L60162	The Junction Transistor in Radio Receivers—The Complete Receiver	Part 2
L60163	Principles of the Transistor	—
L60170	The World of Semi-conductors	—

ENGINEERING, STEAM AND ELECTRICITY—TOOLS AND MACHINE SHOP METHODS

Pattern No.	Title	Part Nos. and/or Reels
A27	Inside Story of Lubrication	1
A89	The Diesel Engine	1-5 Rls.
A116	Boiler Cleaning	—
A119	Browns Hydraulic System of Telemotor and Steering Control	1-4
A122	The Ford V8 Marine Engine Care and Maintenance	2 Rls.
A153	The Lead Acid Battery	1-4
A347	Armature Winding	1-4
A417	Turbine Blading	2 Rls.
A420	Oil Fuel Combustion Part 1	3 Rls.
A454	Centimetric Oscillators	1-3
A637	Four Fives—The ERA Goes to Sea	1-3
A1292	Spray Painting in HMA Ships Part 1	—
A1525	Boiler Cleaning	1-2
BC60	Battery and Dynamo	1-3
C52	Currents of Electricity	2 Rls.
C56	Brakes	2 Rls.
C210	Internal Combustion Engine—Claudel Hobson Carburettor	4 Rls.
C211	IC Engine—Principles of (Ignition)	1 Rl.

ENGINEERING, STEAM AND ELECTRICITY—TOOLS AND MACHINE SHOP METHODS—
continued

Pattern No.	Title	Part Nos. and/or Reels
E620	Truing and Dressing of Grinding Wheels	—
E638	Single Point Fuel Injectors	—
E641	Machining of Metals	2 Rls.
E724	Elementary—Principles of Lubrication	—
E729	Ignition	3 Rls.
E730	How to File	—
E733	The Acid Test	—
E735	Hammers, Chisels, Punches and Drifts	1 Rl.
E736	Files and Filing	—
E737	Spanners, Screwdrivers and Pliers	1 Rl.
E738	Taps, Dies and Reamers	1 Rl.
E739	Hacksaws, Sheers and Vice Clamps	—
E763	Bronze Welding and Cast Iron	2 Rls.
E764	Depositing Stellite with Oxy-acetylene Flame ..	1 Rl.
E765	Fabrication of Steel Parts	—
E766	Oxy-acetylene Welding in Automobile Engineering ..	2 Rls.
E767	Elementary Instruction in Oxy-acetylene Welding ..	4 Rls.
E768	Advanced Oxy-acetylene Welding Techniques ..	4 Rls.
E769	Oxygen in Industry. The High Temperature Flame ..	4 Rls.
E775	CO ₂ and Draught	—
E785	How a Motor Car Works	1-2
E787	The Gas Turbine	—
E817	Principles of Gas Making	—
E1754	The Hydraulic Transmission of Power	—
MN44A	The Diesel Engine	1-2
MN47	Marine Diesel Engine for Power Boats	2 Rls.
MN6732C	Steam Turbines Casualties	Part 3
MN7407A	Marine Gas Turbines—Principles of Operations ..	—
MN9356A-B	De-aerating Feed Tanks—Theory of Operation ..	1-2
OE386	Split-phase Motor Principles	—
OE391	Wound Rotor Controllers	—
USOE-3	Precision Measurement—Fixed Gauges—Positive ..	—
USOE-19	Machine Shop Work (Cutting a Keyway)	—
USOE-20	Machine Shop Work (Machining a Cast Iron Rectangular Block)	—
USOE-21	Machine Shop Work (Machining at Tool Steel "V" Block)	—
USOE-22	Machine Shop Work (Drilling and Tapping Cast Steel)	—
USOE-23	Machine Shop Work (Drilling to a Layout and Spot Facing a Cast Iron Valve Body)	—
USOE-24	Shipbuilding Skills	—
USOE-25	Shipbuilding Skills	—
USOE-30	Shipbuilding Skills	—
USOE-31	Shipbuilding Skills	—
USOE-32	Shipbuilding Skills	—
USOE-33	Shipbuilding Skills	—
USOE-36	Bench Work—Fitting and Scraping Small Bearings ..	—
USOE-40	Machine Shop Work (Laying Out Castings)	—
USOE-44	Shipbuilding Skills	—

ENGINEERING, STEAM AND ELECTRICITY—TOOLS AND MACHINE SHOP METHODS—
continued

Pattern No.	Title	Part Nos. and/or Reels
USOE-46	Machine Shop Work (Drilling a Hole in a Pin)	.. —
USOE363	Principle of Gearing —
USOE-365	Principle of Dry Friction —
USOE-392	DC Motor—Mechanical Overhaul Part 1 —
USOE-393	DC Motor—Mechanical Overhaul Part 2 —
USOE-394	Split-phase Motor—Rewinding —
USOE-395	Three-phase Motor—Preparing to Rewind Part 1 —
USOE-396	Three-phase Motor—Rewinding Part 2 —
USOE-397	Repulsion Induction Motor —
L60120	Diesel Story —
L60121	Dishing of Pressure Vessel End Plates —
L60124	Generation of Metallic Bearing Surfaces —
L60138	Opening up HP and LP Turbines for Inspection —
L60143	Power Unit	1-2
L60159	Testing of Cables —
L60160	Testing of IC Engines —
L60209	Naval Steam Turbine—Manufacture of a Rotor Forging	Part 1
L60209	Naval Steam Turbine—Manufacture and Assembly of a Turbine	Part 2

GENERAL INTEREST

Pattern No.	Title	Part Nos. and/or Reels
A53	Fire Fighting, Shore Establishments	1, 3, 4, 5
A106	Close Combat	1-2 Rls.
A359	Drivers Beware of Aircraft (Safety Precautions)	4 Rls.
A457	Aid to Civil Power	1-3 Rls.
A469	Action—Information—Organisation—Direction (Obsolescent)	1-2
A470	Naval Salutes	2 Rls.
A515	Stabilisation	1-2
A538	Replenishment at Sea	1-4
A588	Rock Climbing	4 Rls.
A589	Cliff Assault	4 Rls.
A593	Spithead Review	2 Rls.
A594	Hints to Instructors	3 Rls.
A596	Coronation Procession —
A625	Ships' Husbandry	1-2
A634	The Commando Rifle Troop in Encounter Battle —
A659	Exercise Sleeping Beauty (Reserve Fleet Preservation) —
A1059	Upkeep of the Fleet —
A1064	Fleet Work Study	1-2
A1164	It's All on the Cards (Work Study) —
A1205	On Patrol —
A1400	His First Draft —
B104	Principles of Height Finding —
BC7464	Alliance for Peace —

GENERAL INTEREST—*continued*

Pattern No.	Title	Part Nos. and/or Reels
C131	Fire Prevention —
C285	We Serve —
C433	House to House Fighting —
C955	The German A4 Rocket —
C1134	Keeping the Peace (Restricted)	1
C1154	Keeping the Peace (Restricted)	3
D535	Desert Victory —
D569	Hong Kong —
D576	The Colonies and Britain —
E674	Rugger Football Training	1-3
E682	The British Monarchy —
E697	The Queen's Navy —
E722	Transfer of Power —
E773	Calling All Motor Cyclists —
E793	The English Criminal Justice —
E796	The Wildecat (Oil Drilling) —
E1489	Six Candles (Road Safety) —
E1497	Kinetics—In Manual Handling of Bags, Barrels, Drums and Boxes	.. —
E1887	The Laws of Rugby Union Football —
FN8801	Co-ordinated Shiphead Allowances —
H98	True Glory	9 Rls.
H108	Burma Victory —
H1416	The Singapore Story —
MA4939	Film Bulletin—Spraying and Proofing for Moisture and Fungi	2 Rls.
MN61L	Loose Waters in Intact Spaces (Stabilisation) —
MN61M	Loose Waters Open to the Sea (Stabilisation) —
MN1027A-C	Hand to Hand Combat	1-3
MN7830	Mobile Support (Supply) —
MN8079	Service to the Fleet —
MN8095	The Davis Taylor Model Basin (Shipbuilding) —
MN8829B	Effective Naval Leadership—Use of Discussion —
MN8969C-F	Digital Computer Techniques —
MN9464	Supply—Overhaul —
TF1-206	Telegraphic Printers—The Printer —
TF1-207	Telegraphic Printers—General Principles —
TF1-208	Telegraphic Printers—Transmitting Mechanism —
TF1-209	Telegraphic Printers—Mechanic —
TF1-210	Telegraphic Printers—Assembly and Installation —
TF19-2749	Geneva—Conventions—Rights and Obligations of Prisoners-of-war	.. —
TF30-2562	Resist (North Korea—Return of POW) —
US1133	Mess—Personnel—Profit and Loss in the Kitchen —
L60102	Background of Tradition (Colour Sect.) —
L60103	Background of Tradition (Black and White and Colour)	.. —
L60104	Call of the Sea (Colour) —
L60106	Coronation Voyage of HMAS SYDNEY —
L60107	Course Set for Tomorrow —

GENERAL INTEREST—continued

Pattern No.	Title	Part Nos. and/or Reels
L60115	The Frogmen	—
L60119	Chilean Navy	—
L60127	It's the Navy	—
L60129	Keeping the Fleet at Sea	—
L60131	Kokoda Trail	—
L60133	Mechanised Patrolling	6 Rls.
L60136	Naval Occasions—Editions 3-14	—
L60149	The RAN College	—
L60150	Ready at Sea	—
L60151	Royal Salute	—
L60153	The Salvage of the RMS Empress of Canada	—
L60155	The Senior Service	—
L60156	Silent Battle	—
L60164	Victory March of Shropshire	—
L60166	Watchdogs of the Pacific	—
L60167	Welcome Aboard	—
L60169	Women in the Navy	—
L60185	English Newsreels	—

GUNNERY AND WEAPONS—DEMOLITIONS

Pattern No.	Title	Part Nos. and/or Reels
A56	Eye Shooting	1-5, 9-13
A123	BOFORS Gun—40-mm. Mark IV	1-3
A126	The Hedgehog Apparatus	1-5
A139	Spreads	2 Rls.
A145	Gyro Gunsight Type 6 Mark 11	3 Rls.
A154	Depth Charge Pistols, Functioning and Safety Tests	2 Rls.
A164	Introduction to Naval Gunnery	1-3, 5-11
A209	Naval Demolitions	1-3
A221	Depth Charge Pistols—The Primer Safety Gear	1 Rl.
A269	Gyro Rate Unit (Obsolescent)	2 Rls.
A272	Hydraulics Part 1	2 Rls.
A307	Depth Charges Part 1	2 Rls.
A425	Attack by ATW—The Approach—Directing the Weapon	1-2
A455	The Torpedo Part 1	2 Rls.
A456	The Squid	1-3
A473	AA Gun Discipline	1-2
A496	Naval Bombardment	1-3
A540	Care of Gunnery Explosives	2 Rls.
A600	Testing and Tuning	1-4
A626	CRBFD and STAAG	—
A633	Anti-surface Ship Torpedo Firing	1-3
A1058	Medium Range System Mark 8	—
A1162	Sea Slug—The System	—
A1163	The Two Range Decca System	—
A1357	The Buccaneer Weapon System	1-2
A1524	Going Great Guns	1 Rl.

GUNNERY AND WEAPONS—DEMOLITIONS—continued

Pattern No.	Title	Part Nos. and/or Reels
A1658	The Sea-cat Weapons (Confidential)	—
C160	Thermionic Valve	4 Rls.
C910	Care and Maintenance Cordage	2 Rls.
E1380	Rockets—How They Work	—
E1382	Earth Satellites	—
MF45-8345	Guided Missiles	—
MN1452	A/S Projector Mark 20 Mousetrap and Ammunition	1-3
MN1452C	A/S Projector Mark 10 (Hedgehog)	—
MN1547A	USN 20-mm. AA Machine Gun	1-2
MN6884	Underwater Demolition Team	—
MN9161B-C	Guided Missiles—Theory of Operation (Confidential)	—
MN9400B	Man and the FBM	—
14L-5028	Browning—Gun	Part 1—2 Rls.
14L-5030	Browning—Gun	Part 2—2 Rls.
L60142	Pistol Bullseyes	2 Rls.
L60165	Vickers GO Gun	1-2

INTELLIGENCE AND SECURITY

Pattern No.	Title	Part Nos. and/or Reels
A128	Jig-saw (Obsolescent)	1-4 Rls.
A237	Design for Murder (Obsolescent)	1-4 Rls.
A516	On Guard	3 Rls.
A608	Somebody's Listening Now (Restricted)	—
A665	The Risks You Run (Confidential)	2 Rls.
A1061	Operation Awkward (Confidential)	—
BC1093	All Informed—Communications—Voice	1
BC1103	All Informed—Communications—Morse (Restricted)	2
C4933	Check on Your Security	—
C5400	Broadcast Control	3 Rls.
E950	The NATO Security Film	—
E1550	It Can't Happen to Me (Restricted)	—
MC1445A-D	The Guy Marine Goes to War	—
L60171	Personna-non-grata	—
L60205	Legal—Resident	—

MEDICAL

Pattern No.	Title	Part Nos. and/or Reels
A338	It's Up To You (Naval Rehabilitation Centre)	1 Rl.
A339	Orthopaedic Rehabilitation	1-2
A602	Treatment of Dental Emergencies by Medical Officer	1, 2, 4
A1521	Emergency Resuscitation	1-4
BC3002	Borne on Two Wings (War against Mosquitos)	2 Rls.
BC3006	Six Little Jungle Boys (War against Mosquitos)	1 Rl.
BC3007	Tommy's Double Trouble (Hygiene in Tropical Area)	1 Rl.
BC3025	Sam's Guardian Angel (Hygiene in Tropical Area)	1 Rl.

MEDICAL—continued

Pattern No.	Title	Part Nos. and/or Reels
C528	First Aid—Gas Carbon Monoxide	2 Rls.
C2466	In Your Interest	2 Rls.
C5598	Nerve Gas	—
MA8402	The Employment of Toxic Chemical Agents	—
MN38	Sex Hygiene	—
MN6466D	Care of the Sick and Injured—Fractures	—
MN8965	Prevention of Heat Casualties	—
PMF5349	Introduction to Respiratory and Cardiac Resuscitation	—
USC200	It's Up To You (VD)	—
L60125	Handling and Care of Patient	—
L60140	Oxygen	—
L60146	Primary Wound Closure	—
L60154	Scabies	—

METEOROLOGY

Pattern No.	Title	Part Nos. and/or Reels
A645	Effects of Weather on Warning Radar	3 Rls.
E670	Ocean Weather Ship	2 Rls.
MN119D	Aerology—Air Masses and Fronts Part 4	3 Rls.
MN119F	Aerology—The Warm Front	—
MN119H	Aerology—Flying the Weather Map	3 Rls.
MN119L	Aerology—Aerology Weather and Radar	—
MN3111A	Aerology—Weather at War	—
MN7304A	Aerology—For Fog and Low Stratus Clouds	—
MN7304C	Aerology—Flight Planning	—
MN7304D	Aerology—Flight Planning Jets	—
MN9728	Meteorology and Oceanography	—
14L-3849	Radar Weather	Part 1
14L-3931	Radar Weather	Part 2

MINES—MINELAYING—MINESWEEPING

Pattern No.	Title	Part Nos. and/or Reels
A73	Magnetic Minesweeping—The LL Sweep	1-4
A108	Depth Charge—Care and Maintenance	3 Rls.
A109	Depth Charges—Release Gear	2 Rls.
A377	Minelaying	1-2
A1523	Mine Hunting System	1-2
MN8914	Magnetic Protection of Mine Warfare Ships	—
OA1391	Mine Investigation (Secret)	—

NAVIGATION AND SEAMANSHIP

Pattern No.	Title	Part Nos. and/or Reels
A110	Gyro Compass	1-4
A121	(Ship Control) Handling Ships	1-10
A176	Silhouettes for Landing Craft Crews	2 Rls.
A433	Relative Velocity	1-2
A463	Charting the Seas	3 Rls.
A471	Surfing in Small Boats	2 Rls.
A474	Mooring Work	3 Rls.
A531	Ship Handling in Ice	—
A539	Coastal Navigation and Pilotage (Revised)	—
A607	Basic Fleet Work (Confidential)	1-2
A614	Boats and Boatwork	1-9
A1170	AGM 6 and Pattern 5005 Compass	1-4
A1217	Duties of the Helmsman	—
A1402	Duties of Lookouts	4 Rls.
A1519	Anchors and Cables	1-3
E825	British Tides	—
E1550	Lets go Sailing. The Racing Rules	—
E1786	Mastery at Sea	—
MH8486	Rigid Inflatable Reconnaissance Boats	—
MN83A	Celestial Navigation—"The Earth"	—
MN202A	Rules of the Nautical Road—"The Halifax Incident"	3 Rls.
MN202C	Rules of the Nautical Road—"Ordinary Running Lights" Part 5	2 Rls.
MN202E	Rules of the Nautical Road—Towing Lights	1 Rl.
MN202F	Rules of the Nautical Road—Lights "Vessels Being Towed"	—
MN202G	Rules of the Nautical Road—Special Lights	1-3
MN202H	Rules of the Nautical Road—Quiz on Lights and Day Signals	2 Rls.
MN202I	Rules of the Nautical Road—Visual Day Signals	4
MN202J	Rules of the Nautical Road—Surveying Vessels	—
MN202J	Rules of the Nautical Road—Whistle Signals, for Approaching Vessels	2 Rls.
MN202K	Rules of the Nautical Road—Meeting Steam Vessels	2 Rls.
MN202M	Rules of the Nautical Road—Meeting at Night	21-22
MN202N	Rules of the Nautical Road—Overtaking Situation	—
MN202Q	Rules of the Nautical Road—Overtaking at Night	27-28
MN202R	Rules of the Nautical Road—Crossing Steam Vessels	—
MN202U	Rules of the Nautical Road—Crossing at Night	33-34
MN202V	Rules of the Nautical Road—Rules in Fog	2 Rls.
MN202X	Rules of the Nautical Road—Special Circumstances	—
MN202Z	Rules of the Nautical Road—Special Steering and Sailing Rules	2 Rls.
MN1792E	The Gyro Compass (Principles of the Gyroscope)	—
MN7465A	The Gyro Compass Earth Rates	—
TF1-204	Celestial Navigation—Position Finding on Earth	—
TF1-290	Celestial Navigation—Location of Points on Celestial Sphere	—
TF1-544	Celestial Navigation—Bearings. Single Line of Position and Fixed	—

NAVIGATION AND SEAMANSHIP—continued

Pattern No.	Title	Part Nos. and/or Reels
TF1-545	Celestial Navigation—Latitude by Polaris	—
TF1-546	Celestial Navigation—Time	—
TF1-547	Celestial Navigation—Star Identification	—
US1228	Naval Control of Shipping (Confidential)	—
L60157	Skilled Hands at Sea	—
L60173	The Restless Sea	1-2

OPERATIONS

Pattern No.	Title	Part Nos. and/or Reels
A133	Landing Crafts	4, 6, 7 and 10
A217	Ship Headquarters	2 Rls.

RADAR

Pattern No.	Title	Part Nos. and/or Reels
A405	Radar 262	3 Rls.
A572	Effects of Electronic Jamming on Radar (Restricted)	—
A573	Warning Radar Displays	1-2
A592	The Effect of Interference on Radar	1 Rl.
A1056	Warning Radar	1-4
A1060	Radio and Electronic Fault Finding	—
A1167	Radar for Navigation	1-2
MN1312	ASG Radar Interpretation	—
MN1540A	Technician Training "Capacitance" Radar	—
MN1540C	Radio Technician Training "RCL"	—
MN2867B	Radex ASB	Part 2
MN6958A-K	IFF Mark 10	—
OA1062	Radar, Type 984 and the Comprehensive Display System (Confidential)	—

RECRUITING

Pattern No.	Title	Part Nos. and/or Reels
A85	One Company	1-4 Rls.
A157	Sailors of Tomorrow	1-3 Rls.
A484	Naval Artificer	5 Rls.
D568	A Sailor is Born	2 Rls.
E628	Vickers Super Marine (Progress of Fighter Aircraft)	2 Rls.
L60116	Gateway to Adventure	—
L60137	Navy in Focus Editions 1-5	—
L60152	Sailors in the Making	—

SALVAGE

Pattern No.	Title	Part Nos. and/or Reels
A487	From the Sea Bed	2 Rls.
A520	Diving	3-4
MN105A	Deep Sea Diving	—

SCIENTIFIC

Pattern No.	Title	Part Nos. and/or Reels
E702	Fundamentals of Acoustics	—
E751	Atomic Physics	1-5
E778	Principles of Ultrasonics	—
E952	Encyclopaedia Britannica Physics Course—Atomic Physics Unit VII	1-9 Lessons
E953	Encyclopaedia Britannica Physics Course—Electronic Unit VIII	1-8 Lessons
MN1192	Physics of Sound Applied to Echo Ranging Devices	—
MN1193	Technique of Echo Ranging	—
L60109	Encyclopaedia Britannica Physics Course—Section E Heat	1-15 Lessons
L60110	Encyclopaedia Britannica Physics Course—Section F Sound	1-11 Lessons
L60111	Encyclopaedia Britannica Physics Course—Section G Light	1-18 Lessons
L60112	Encyclopaedia Britannica Physics Course—Section H Electricity	1-24 Lessons
L60122	Distributing Heat Energy	—

SUBMARINES

Pattern No.	Title	Part Nos. and/or Reels
A141	Submarine on Patrol	1 Rl.
A355	Submarines—Flooding and Pumping through Main Lines	1-2
A503	Submarine Batteries and Propulsion	3 Rls.
A505	Submarine Control	2 Rls.
A616	Submarine Escape Training	—
D570	Up Periscope	3 Rls.
MC9938	Goblin on the Door Step	—
MN7418F	S/M Characteristics	—
MN8024E	Submarine Missions—Characteristics and Capabilities	—
MN8593B	Sonar Systems for Submarine	—

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SURVIVAL

Pattern No.	Title	Part Nos. and/or Reels
A465	Survival	3 Rls.
A635	Survival at Sea	1-2
A1104	Baker Ejection Seat	—
MA2627	Land and Life in the Arctic	6 Rls.
MN1145	Abandon Ship	—

(DNS 519/256/25)

(Navy Order 471 of 1965)

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ANO's 230-240/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
29th May, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

230—Examinations for Permanent Employment in HMA Dockyards and Shore Establishments

Annual examinations are conducted by the Department of the Navy to enable civilian personnel to qualify under the Naval Defence Act for appointment, promotion or transfer as Technician/Senior Technician.

2. In order to encourage sailors who are nearing the end of their engagements to qualify for future employment in dockyards and shore establishments, it has been decided to allow serving personnel to sit for these examinations provided that they are within two years of discharge "Engagement Expired".

3. Examinations will be both written and oral/practical. The arrangements for examinations will be promulgated periodically to all ships and establishments by Circular Memorandum. When service reasons, e.g., absence from Australia, preclude a sailor attending the scheduled oral/practical section of the examination, which is normally held in Sydney, alternative arrangements will be made.

4. Application forms together with details of the examinations and past examination papers will be forwarded to all ships and establishments. Applications are to be forwarded through normal channels to reach Navy Office before the closing date of each examination.

(DMT 311/4/212)

RESTRICTED

231—HMA Ships Accompanying HMAS MELBOURNE— Service in Strategic Reserve

Ships proceeding in support of HMAS MELBOURNE during her annual tour of duty in the Strategic Reserve are to be declared as temporarily attached to the Strategic Reserve.

2. Members serving on ships so attached will qualify for allowances and benefits under the same conditions as members serving on ships allocated for service with the Strategic Reserve.

(HPB 252/201/26)

UNCLASSIFIED

232—Religion—Roman Catholics—Participation in Interdenominational Services

Approval has been obtained from the Churches represented in the Royal Australian Navy for their members to attend at combined prayers and at combined services on special occasions. Agreement has also been reached on the Prayers and forms of Service to be held on those occasions when mixed denominations are present.

2. The rules forbidding the attendance of Roman Catholics at the services of other denominations have recently been relaxed by the Holy See and it is now permissible for them to attend on special occasions. Definite conditions, however, must be fulfilled; briefly these are that—

- (a) the assembly is in a place other than a denominational Church or Chapel;
- (b) the Roman Catholic Chaplain or priest participates in the preparation of such services;
- (c) when the special occasion occurs on a Sunday, facilities should be arranged for Roman Catholics to attend Mass.

3. Divine Service on Sunday will continue to be on a denominational basis, facilities are to be given for Roman Catholics to attend Mass. A form of service approved by the Church will be issued for use on those occasions when a priest is not available to celebrate Mass.

4. Roman Catholics may remain for Ship's Company or Divisional Prayers as long as such prayers are taken from ABR 5078.

5. At the Commissioning of HMA ships, the Service will be according to the form prescribed in ABR 5078.

6. The Revised Standard Version of the Bible is the version to be used at combined services.

7. A book of Prayers and orders of Service for use on occasions when all denominations are to be present has been prepared and will be issued as ABR 5078. This ABR will be a non-accountable publication. In the meantime a copy of the proposed ABR is held by all Chaplains and may now be used.

8. RI 4622 will be amended.

(DPS 133/1/40)

UNCLASSIFIED

233—The Ian MacDonald Memorial Prize

The Ian MacDonald Memorial Prize for 1966 has been awarded to Sub-Lieutenant R. J. BAYLEY, RAN.

(HPB 38/6/6)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

234—HMAS WATSON—School of Cookery—Closure

The new School of Cookery at HMAS CERBERUS was completed in May, 1966. It has been decided that all future promotion training for the Cook Category will be carried out at HMAS CERBERUS, and that the School of Cookery at HMAS WATSON will close in June, 1967.

2. It is recognised that there will be a continuing requirement for some cookery instruction in the Sydney area, and it has been decided that facilities for this will be provided at HMAS KUTTABUL.

3. The main function of these facilities will be to—

- (a) provide short periods of refresher training on an "as required" basis, and specialised training for sailors of the Cook Category from the Fleet and shore establishments in the East Australia Area;
- (b) maintain the present ability to provide demonstrations of Naval Cookery in the East Australia Area, with consequent beneficial publicity; and
- (c) carry out trials and testing of foodstuffs as required.

4. The billets provided for Cookery instruction in the Scheme of Peace Complement for HMAS WATSON (viz.: 1 Cookery Officer and 1 CPO Cook), will be transferred to the Scheme of Peace Complement for HMAS KUTTABUL.

(DMT 311/4/184)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

235—Will Not Be Issued

UNCLASSIFIED

236—Alteration and Addition Item—Galley Equipment HMA Ships

Due to adverse reports received on the existing atmospheric steam ovens at present fitted in the Ship's Company galleys of type 12 DE's and other HMA ships it has been decided that they should be replaced as opportunity permits by the more versatile steam pressure ovens which operate at an internal pressure of 5 pounds per square inch. This latter type overcomes many of the inadequacies of the atmospheric oven in the cooking of vegetables, puddings, meats, etc., and is now standard equipment to be fitted in new construction vessels.

2. All ships presently fitted with atmospheric steam ovens are to raise A and A items for their replacement by steam pressure ovens. Topweight surrender will be required in some cases and this is to be landed before the A and A is undertaken.

(DFSD 1120/52/22)

UNCLASSIFIED

237—Ammunition—Primers—Electric No. 17 Mark 2, Lot No. 2—Withdrawal

(DCI (RN) 131/1967)

Ammunition item	Maker	Lot No.	Filled
Primers, Electric, No. 17, Mark 2.	PL 1939	2	Woolwich 2/40

2. HMA ships and fleet establishments concerned Those holding cartridges fitted with Primers Electric No. 17 and/or loose Primers Electric No. 17 for testing purposes.

3. *Action required* All loose primers, and cartridges fitted with primers, of the above description are to be returned at the earliest opportunity to the nearest RAN armament depot and replacements demanded in lieu.
4. *Royal Australian armament depots* Primers Electric No. 17 in bulk and all ammunition fitted with these primers are to be scrutinised. Any primers found of the above description are to be disposed of.
5. *Reason for action* A primer of the lot quoted split at annual proof and the magazine was detached and blown out of the proof apparatus.
6. *Safety category* NMER (BR 862) Article 1705. Category dd, i.e., dangerous if used. If part or all of the magazine remained in the guns, it could cause the next round to premature.
7. *Publication* Restriction List (A) has been amended.
8. Australian General Message DTG 060421Z MARCH '67 is cancelled.
(DAS 729/56/81)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

238—Form AM 235z—Quarterly Dental Return—Rendition

From the date of this order the following procedure is to be adopted—

2. Form AM 235z—"Quarterly Dental Return"—is to be completed and signed by the Senior/Dental Officer on the last day of the months of March, June, September and December. It is then to be forwarded to the Commanding Officer for perusal, signature and onward transmission to the Medical Director-General.
3. Forms AM 235z are to be rendered to the Medical Director-General as follows—
- (a) *East Australia Area*—Through the Command Dental Surgeon who, on receipt of all Returns in the Command, is to append his comments before onward transmission.
- (b) *HMA Fleet*—Direct, a copy being forwarded concurrently to the Fleet Dental Surgeon who, on receipt of the copies of all Returns in the Fleet, is to forward his comments to the Medical Director-General without delay.
- (c) *Other Establishments*—Direct.
4. Annual Dental Returns are no longer required and Form AM 235z will be amended in due course.

(MDG 327/57/19)

UNCLASSIFIED

239—Forms AS 29A—Cash Account Form—Revision

Two new Cash Account Forms—Forms AS 29A (Inside) (Credit Sheet, Foreign Currency) and Form AS 29A (Inside) (Debit Sheet, Foreign Currency) have been introduced in the RAN and are now available upon demand from SNSO, Sydney.

2. The new forms include additional money columns to assist in accounting for foreign currency transactions in HMA ships' Cash Accounts. They are therefore to be used by Supply Officers in ships which are in areas abroad and carry foreign currency.

(DNA 464/54/350)

UNCLASSIFIED

240—Mail for HMA Ships

The Postmaster-General's Department has provided a schedule showing the arrival and delivery times at Bowen and Townsville for inwards mail from Brisbane, and closing times for outgoing mail from Bowen and Townsville to Brisbane. This schedule is contained in the appendix to this order.

2. Navy Orders 601 of 1966 and 63 and 180 of 1967 are relevant.

APPENDIX
Queensland

		BOWEN		TOWNSVILLE					
A R R I V A L S	BY AIR AT POST OFFICE	S	4.30p	6.30a					S
		M	12.30p	5a	8a	12.10p	3.30p	8p	M
		T	10.30a	11.15a	8a	12.10p	4.25p	8p	T
		W	10.30a	12.30p	8a	11.45a	3.30p	8p	W
		T	10.30a	11.45a	8a	12.10p	3.30p	8p	T
		F	10.30a	4.30p	8a	12.10p	3.30p	8p	F
		S	10.30a	11.15a	8.15a	12.10p	3.30p		S
	READY FOR COLLECTION		10 minutes after arrival Mon.-Sat. Sun. 9 a.m. Mon.		1-2½ hours after arrival				
D E P A R T U R E S	BY SURFACE AT POST OFFICE	S	2.15a	6.30a					S
		M							M
		T	2.15a	6.30a					T
		W	2.15a	6.30a					W
		T	2.15a	6.30a					T
		F	2.15a	6.30a					F
		S	2.15a	6.30a					S

		Tu.-Sun. 9 a.m.		3-3½ hours after arrival				
D E P A R T U R E S	BY AIR MAIL CLOSES AT POST OFFICE	S	10a	11.30a			S	
		M	8.45a	6.30a	1p		M	
		T	12 noon	6.30a	1p		T	
		W	1.30p	6.30a	1p		W	
		T	10.30a	6.30a	1p		T	
		F	12 noon	6.30a	1p		F	
		S	12 noon	6.30a	10a	5p		S
		BY SURFACE MAIL CLOSES	S	10a					S
M	5p		7.30p				M	
T	5p		7.30p				T	
W	5p		7.30p				W	
T	5p		7.30p				T	
F	5p		7.30p				F	
S			1.30p				S	

(AS (NS) 68/201/22)

(Navy Orders 601 of 1966 and 63 and 180 of 1967)



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ANO's 241-251/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
2nd June, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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247 Naval Stores (General)—Class/Group 0472—Inflatable Liferrafts for Instructional Purposes.

248 Naval Stores (General)—Compressed Air Breathing Apparatus—Allowance of Stowage Box.

249 Naval Stores (General)—Introduction—Catalogue No. 4940-66-023-2818—Cleaning Gun, Condenser—Tube.

250 Naval Stores—Introduction of New Type Sea Air Rescue Beacon—0624/5825-99-952-6482 (Short Title SABRE Mark 3).

251 Naval Stores—Navigational Shapes.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

241—Safety—Responsibility for Returning Libertymen

A fatal accident occurred when a libertyman returning to his ship fell from a gangplank which had been rigged between the ship's accommodation ladder and the jetty.

2. It is the responsibility of the Officer-of-the-Watch to ensure that brows, gangways and ladders are kept rigged in a way which permits their safe use in all states of weather and tide. He is also to ensure that a lifebuoy, a lifeline and a short range buoy light, Pattern 0582/16194 is provided near the QM's position in case of accident.

3. Responsibility for the safety of persons boarding and landing also rests with the Captain and Executive Officer of any ship.

4. RI Article 3144 will be amended to include these points.

(CONS 177/1/84)

Section 2

PERSONNEL

UNCLASSIFIED

242—Discipline—Reciprocal Powers of Arrest Amongst Australian Forces in Vietnam

Reciprocal powers of arrest are now vested in the police patrols of all three Australian Services in Vietnam.

2. Powers of arrest are restricted, however, to all officers and sailors of the rank of Leading Seaman and above in the RAN, all non-commissioned officers of the rank of Corporal (Bombardier) and above in the AMF and RAAF.

3. All personnel serving in the Vietnam area are to be advised by their Commanding Officers of the implications of this order.

4. RI Article 2074C will be amended in due course.

(DNLS 465/8/87)

UNCLASSIFIED

243—Eyesight and Colour Perception Standards

Navy Order 47 of 1967 is to be amended as follows—

(a) Section III, Part 1 (f) (ii) Airmen (AV)—Column NCPS delete "1" insert "3 except for ATCO for which NCPS remains 1",

(b) Section III, Part 2 (c)—Delete and substitute—

" Surveying Officer on first posting	2	|	1
	Spectacles are not permitted on duty, but may be worn in offices, etc.		

Navigating Officer on first posting

Distance and reading glasses permitted at all times. Two pairs of distant and/or reading glasses are to be issued to any officer who requires them. One pair of each is to be kept on the officer's person at all times, and the second pair is to be kept in a convenient place on the bridge.

An applicant for specialisation in (N) must therefore possess, as a minimum the visual standard of NES4 and NCPS 1.

Commanding Officers should ensure that a certificate to this effect, signed by the medical officer of the ship or establishment is forwarded with the officer's application.

When an officer has been selected for the next qualifying (N) course he is to be referred to a Naval Ophthalmic Specialist who is to provide the officer with a certificate to the effect that he possesses the visual standard quoted above. This certificate is to be forwarded to the Captain, HMS DRYAD."

(c) Section IV—Delete Paragraphs 2 and 3 and substitute the following—

"2. The following are the minimum standards for the various branches and categories on first allocation, during service and on re-engagement or re-entry—

	Naval Eyesight Standard		Naval Colour Perception Standard
	On Allocation to Branch	Re-engagement or Re-entry	
<i>Seaman—</i>			
QMG, SR, CD, COX, PT ..	2	4	1
UW, RP, UC, FC, WM ..	4	6	1
<i>Communication—</i>			
TO	2	4	1
RO, ROS, DO, LIN.. ..	6	7	3
<i>Naval Airman—</i>			
AH (see Note 1)	2	4	3
SE, Phot, Met	6	7	3
All other branches and apprentices (see Note 2)	6	7	3
Wran Radar Plotter	6	7	3
All other Wrans	7	7	3
MTD	7	7	3

Note 1—Naval Airmen in Colour Perception Standard 3 may be accepted for initial training as Aircraft Handlers.

- (i) On allocation to Branch they will be required to pass a trade test involving the reading of groups of coloured lights in a simulated Flight Deck mock up.
- (ii) Sailors with NCPS3 who pass this test will be recorded as NCPS3(PTT).
- (iii) Those who fail the trade test will be required to train for some other category.
- (iv) Sailors with NCPS3 already trained and employed as Aircraft Handlers may be considered to have passed the test and will not be re-tested unless there is good reason to doubt their efficiency. In such cases they will be required to pass the trade test described above, and should they fail, action in accordance with Paragraph 8 of Section II is to be taken.

Note 2—Sailor recruits for whom Naval Eyesight Standard 6 applies may be entered subject to the following limitations—

- (i) Age not exceeding 16. Myopia in any meridian is not to exceed 1.5 dioptries.
- (ii) Age 16 to 16½. Myopia in any meridian is not to exceed 2.0 dioptries.
- (iii) Age 16½ and over. Myopia in any meridian is not to exceed 3.0 dioptries.

3. Junior Recruits—On Entry—

Unaided Distant Vision	At least 6/9, 6/9
Unaided Near Vision	N5EE
Naval Colour Perception Standard	1

Note—Specially desirable applicants whose distant vision is at least 6/12, 6/18, or whose Naval Colour Perception is 3 may be recommended to Navy Office for acceptance. In either instance the candidate is to be informed of the limited choice of category and Form AF Med. 1 endorsed accordingly."

(d) Section VII, Paragraph 4—Add the following after Ophthalmic Specialist—

" Navigating Officers are to be supplied with two pairs each of either distance or reading glasses, as required."

2. Navy Order 172 of 1967 is hereby cancelled as the contents of this order are included in Section IV, Paragraph 2 above.

3. Navy Order 220 of 1966 is relevant.

(MDG 327/53/143)

(Navy Orders 220 of 1966 and 47 and 172 of 1967)

UNCLASSIFIED

244—Temporary Rental Allowance—Form AD 509Z

Applications for payment of Temporary Rental Allowance (Form AD 509Z) are being received at Navy Office with questions on the form unanswered or insufficiently answered. This is causing unnecessary correspondence and delays in the assessment of claims and authorisation of payments to members.

2. In many instances—

- (i) the question "Was a suitable Service Residence or C/SHA House available at any period during the period of the claim" has not been answered nor have other details in the Certificate by Captain been completed;
- (ii) Part II of the Form, showing details of the search by the member for both unfurnished premises and furnished premises has either not been completed or insufficiently completed. In regard to furnished premises it is necessary to establish that the member would accept unfurnished premises if available. Answers to the three last questions in Part I of the Form are often inadequately or incorrectly answered. Also in regard to unfurnished premises the conditions of NPI 231/43 (4A) must be fulfilled. Several applications of this type have been received lately without supporting information.
- (iii) where the member has stated that a charge for garage, gas, water or electricity is included in the rental, the cost for these charges has not been shown; or
- (iv) the Billeting Officer's Certificate has not been forwarded with the application.

3. Where a lease is taken, a copy of the lease should be forwarded with the application, where practicable, or advice forwarded as to when it will be available for perusal.

4. Form AD 509Z is being revised to facilitate the answering of questions, where possible by a YES/NO system. In the meantime, Commanding Officers are to ensure that all details required on the applications are completed before the Form is forwarded to Navy Office.

(HPB 464/55/151)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

245—Batteries and Cells—Ventilation of Battery Containers

Navy Order 137 of 1967 is to be amended as follows—

Paragraph 4—

Add new paragraph—

"This order is not applicable to submarine batteries."

(PEE 400/2/725)

(Navy Order 137 of 1967)

RESTRICTED

246—Generators and Alternators—Main Generator Trials in HMA Ships

During the course of recent ship Main Generator Trials, damage was caused to valuable electronic equipment by overvoltages on the main supply system.

2. It is always possible for severe overvoltages to occur due to the abnormal conditions existing during generator trials, especially in a.c. ships, and it is therefore essential that all sensitive equipment and apparatus that might be damaged by overvoltage be disconnected from the system during such trials.

3. Ships' staffs and those responsible for arranging and conducting generator trials are to ensure that such apparatus is disconnected and that no other trials take place concurrently which require sensitive equipment to be run.

(PEE 1211/251/129)

UNCLASSIFIED

247—Naval Stores (General)—Class/Group 0472—Inflatable Liferrafts for Instructional Purposes

Inflatable liferafts 20 man have been allowed to the following establishments for instructional purposes—

HMAS ALBATROSS	..	..	2 No.	
HMAS CERBERUS	..	..	4 No.	
HMAS HUON	..	..	1 No.	
HMAS LEEUWIN	..	..	2 No.	
HMAS LONSDALE	..	..	1 No.	
HMAS MORETON	..	..	1 No.	
HMAS NIRIMBA	..	..	1 No.	
HMAS PENGUIN	..	..	2 No.	For Seamanship School
HMAS CRESWELL	..	..	1 No.	
HMAS ENCOUNTER	..	..	1 No.	
HMAS WATSON	..	..	2 No.	
Williamstown Naval Dockyard	..	..	2 No.	} For issue to HMA ships during docking periods, etc.
Fleet Maintenance Party, Garden Island	..	..	2 No.	

2. The liferafts are serviceable for instructional purposes only and are marked "Instructional Purposes Only" in 3-in. block letters each side of the tent of the raft and on each side of the canvas valise.

3. Solar Stills are not fitted to these liferafts as it is considered that they would soon become damaged due to constant handling of the rafts and thus be rendered ineffective. However, Solar Stills for training purposes will be allowed on the basis of 1 No. for each Liferaft for Instructional Purposes, held, except HMAS ALBATROSS to which an allowance of 6 No. has been made.

4. Supply of both Liferrafts and Solar Stills, to complete allowances, will be arranged by the Superintending Naval and Air Store Officer, Sydney, without demand.

(DNS 512/58/166)

UNCLASSIFIED

248—Naval Stores (General)—Compressed Air Breathing Apparatus—Allowance of Stowage Box

With the introduction into Service of Catalogue No. L90019, Cylinders, aluminium in lieu of the steel cylinders, the Catalogue No. L90004, Box, stowage cannot be used for the stowage of Compressed Air Breathing Apparatus.

2. It has therefore been decided to withdraw this stowage box from service. Holdings of these boxes should be returned to the appropriate Storing Authority.

3. A replacement stowage box will not be issued as it is now no longer required.

(DSAP 512/74/12)

UNCLASSIFIED

249—Naval Stores (General)—Introduction—Catalogue No. 4940-66-023-2818—Cleaning Gun, Condenser—Tube

The following item has been introduced for use in the RAN—

Group Class	Catalogue No.	Description	D of Q	Acctg. Status
4940	66-023-2818	Cleaning Gun, Condenser Tube	No.	Permanent

2. *Purpose*—To replace the heavier tool currently in use.

3. *Instructions regarding use, etc.*—The lightweight cleaning Gun, Condenser Tube is for use by all ships. The Cleaning Gun has been designed for connection to No. 1 RAN Canvas Hose (for machinery purposes).

4. *Allowances*—The allowance of the cleaning gun is—

- 1 No. to Ships having one Main Condenser.
- 2 No. to Ships having two or more Main Condensers.
- 1 No. to Diesel Ships (for use on Heat Exchangers).

5. *Supply arrangements*—

(a) Ships in commission should lodge demands with the appropriate Storing Authority in accordance with the scale of allowances set out in Paragraph 4 above.

(b) Supply to ships under construction, modernisation, conversion or extended refit will be made as part of the first outfit of stores.

6. On receipt of the newly introduced cleaning gun the existing condenser jetting equipment should be returned to the appropriate Storing Authority for disposal in accordance with current procedure.

7. The following associated consumable items, if not already held, should also be demanded for each cleaning gun carried—

Catalogue No.	Description	Qty.
0413/401	Tubing IR $\frac{1}{2}$ -in. Dia.	As required
0476/3773	Washer Leather	3 No.
0254/4085	Clips Hose	2 No.
0254/3775	Nut Union for $\frac{1}{2}$ -in. Hose	2 No.
4730-66-023-3144	Tailpiece Union	2 No.

8. The remaining items, although capable of replacement, are not being supplied as a first outfit, but will be available on an "as and when required" basis under the following Catalogue Numbers—

Catalogue No.	Description
4730-66-023-3108	Adaptor, Straight, Pipe to Nose
4940-66-023-2812	End Cover
4940-66-023-2815	Nozzle Cleaning Gun
4940-66-023-3145	Bent Tube Assembly
5330-66-023-3143	Washer, Non-metallic
5340-66-023-3146	Spring, Helical Compression

9. The Cleaning Gun, Condenser Tube should be stowed in its entirety and regarded as complete equipment and should not be used for any other purpose.

(DSAP 506/51/232)

UNCLASSIFIED

250—Naval Stores—Introduction of New Type Sea Air Rescue Beacon—0624/5825-99-952-6482 (Short Title SABRE Mark 3)

Navy Order 677 of 1966 is to be amended as follows—

Paragraph 2 (c)—

Delete first sentence and *substitute*—

"The Type G1339 battery has a shelf life of 12 months temperate and six months tropical."

(DSAP 519/59/846)

(Navy Order 677 of 1966)

UNCLASSIFIED

251—Naval Stores—Navigational Shapes

To permit compliance with the 1960 International Regulations for Preventing Collision at Sea the following navigational shapes are required to be carried by HMA ships—

Group Class	Catalogue No.	Description	Acctg. Status
8345	66-023-2890	SHAPE, DAY, MARITIME, black diamond	Consumable
8345	66-025-9689	SHAPE, DAY, MARITIME, white diamond	Consumable
8345	66-025-9690	SHAPE, DAY, MARITIME, black ball	Consumable
8345	66-025-9691	SHAPE, DAY, MARITIME, red ball	Consumable

RESTRICTED

2. The above shapes are available from the Superintending Naval Store Officer, Sydney, and ships are to demand requirements to complete allowances on the following scale—

SHAPE, DAY, MARITIME, black diamond	..	..	1 No.
SHAPE, DAY, MARITIME, white diamond	..	..	1 No.
SHAPE, DAY, MARITIME, black ball	..	..	3 No.
SHAPE, DAY, MARITIME, red ball	..	..	2 No.

2. Navy Orders 166 and 346 of 1965 are relevant.

(DNS 510/55/44)

(Navy Orders 166 and 346 of 1965)

Registered

ANO 252/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
5th June, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

252—Stores General (Group/Class 0623)—Transfer to NATO Group/Classes and Re-identification—American Airborne Equipment

Items of American Airborne Equipment presently accounted for under Group/Class 0623 have been transferred to applicable NATO Group/Classes; see Appendixes "A" and "B" respectively.

2. Appendix "A" details those items currently held under an abridged Federal Stock Number FSN, that is, the Nation Code "00" is not included which have now been re-identified to the full Federal Stock Number FSN (Nation Code "00" now included).

3. Where it has been possible to establish a FSN for local stock numbered items, the FSN is shown. All other local stock numbered items procured from the USA have been transferred to the applicable NATO Group/Class the Local Stock Number retained and the Nation Code "00" has been inserted. (See Appendix "B".)

4. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/58/265)

APPENDIX "A"

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
1420-514-5211	1420	00-514-5211	Gasket
2950-255-2961	2950	00-255-2961	Suppressor
3010-253-1362	3010	00-253-1352	Coupling
3020-294-5317	3020	00-294-5317	Gear
3020-351-4322	"	00-351-4322	"
3020-881-2191	"	00-881-2191	"
3020-881-5129	"	00-881-5129	"
3110-144-8830	3110	00-144-8830	Bearing
3110-155-9639	"	00-155-9639	"
3120-865-8085	3120	00-865-8085	"
4140-431-5912	4140	00-431-5912	Blade
4140-585-7226	"	00-585-7226	Mounting
4140-588-7226	"	00-588-7226	Blower
4140-633-1435	"	00-633-1435	" Assembly
4450-300-3603	4450	00-300-3603	Fan
4450-331-6828	"	00-331-6828	Blower
5120-198-5398	5120	00-198-5398	Wrench
5120-224-2504	"	00-224-2504	Gasket
5120-240-5300	"	00-240-5300	Wrench
5120-242-7410	"	00-242-7410	Gasket
5120-542-6929	"	00-542-6929	Fliers
5305-151-1492	5305	00-151-1492	Screw
5305-151-1498	"	00-151-1498	"
5305-151-2087	"	00-151-2087	"
5305-206-2050	"	00-206-2050	"
5305-207-1206	"	00-207-1206	"
5305-249-0579	"	00-249-0579	"
5305-281-4168	"	00-281-4168	" Pointer Barthing
5305-305-2611	"	00-305-2611	"
5305-305-2674	"	00-305-2674	Plug

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5305-530-9492	5305	00-530-9492		Screw
5305-634-7841	"	00-634-7841		Clamp Loop
5305-637-6557	"	00-637-6557		Screw
5305-638-3385	"	00-638-3385		"
5305-680-5510	"	00-680-5510		"
5305-680-9158	"	00-680-9158		"
5305-680-9159	"	00-680-9159		"
5305-688-2346	"	00-688-2346		"
5305-705-2538	"	00-705-2538		"
5305-730-0501	"	00-730-0501		"
5310-167-0696	5310	00-167-0696		Washer Lock
5310-167-0874	"	00-167-0874		" "
5310-283-0947	"	00-283-0947		Retainer
5310-674-7629	"	00-674-7629		Clamp Cable
5310-675-2525	"	00-675-2525		Washer
5310-685-3049	"	00-685-3049		"
5310-685-6781	"	00-680-9330		"
5315-854-8999	3315	00-854-8999		Shaft
5315-854-9000	"	00-854-9000		"
5325-171-5723	5325	00-171-5723		Grommet
5325-249-6370	"	00-249-6370		"
5325-276-4221	"	00-276-4221		"
5325-276-4993	"	00-276-4993		"
5325-497-3201	"	00-497-3201		"
5325-616-4859	"	00-616-4859		"
5325-616-5961	"	00-616-5961		"
5330-090-3523	5330	00-090-3523		Gasket
5330-171-8366	"	00-171-8366		Washer
5330-202-3847	"	00-202-3847		"
5380-310-6934	"	00-310-6934		Gasket
5380-515-6238	"	00-515-6238		"
5380-530-2008	"	00-530-2008		Packing

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5330-603-0195	5330	00-603-0195		Packing
5330-812-5630	"	00-812-5630		Washer
5330-819-8728	"	00-819-8728		"
5340-090-6943	5340	00-090-6943		Mount
5340-090-6944	"	00-090-6944		"
5340-268-2283	"	00-268-2283		Spring
5340-282-9284	"	00-282-9284		Clamp
5340-282-9285	"	00-282-9285		"
5840-282-9293	"	00-282-9293		"
5840-283-0799	"	00-283-0799		"
5340-290-0775	"	00-290-0775		"
5340-291-5346	"	00-291-5346		"
5340-356-7203	"	00-356-7203		Mount
5340-576-9761	"	00-576-9761		Clamp
5340-584-3769	"	00-584-3769		Mount
5340-584-9929	"	00-584-9929		Ring Retaining
5340-590-8265	"	00-590-8265		Spacer
5340-618-4863	"	00-205-6519		Ring
5340-664-8168	"	00-664-8168		Clamp
5340-707-5541	"	00-707-5541		Bushing
5340-724-6819	"	00-724-6819		Sleeve
5340-784-7982	"	00-784-7982		Holder
5355-031-1685	5355	00-031-1685		Pointer Assembly
5355-284-5886	"	00-284-5886		Knob
5355-321-5588	"	00-321-5588		Dial
5355-431-9009	"	00-431-9009		"
5355-538-6979	"	00-538-6979		Knob
5355-623-7615	"	00-623-7615		Lock Shaft
5355-642-8017	"	00-642-8017		Dial

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5355-644-1310	5355	00-644-1310	Dial
5355-667-7174	"	00-667-7174	Knob
5355-668-3440	"	00-668-3440	"
5355-883-1601	"	00-883-1601	"
5800-002-4041	5826	00-327-4379	Mount
5820-041-3304	5820	00-041-3304	Tuned Damper Assembly
5820-369-5793	"	00-369-5793	Mounting
5820-812-1970	"	00-812-1970	Washer
5821-036-6273	5821	00-036-6273	Control Box
5821-328-9994	"	00-328-9994	Rod
5821-338-1588	"	00-338-1588	Pick Up
5821-346-4705	"	00-346-4705	Inductor
5821-375-4383	"	00-375-4383	Pick Up
5821-505-2451	"	00-505-2451	Receiver
5821-510-4820	"	00-510-4820	Yoke
5821-550-8660	"	00-550-8660	Spring
5821-560-5871	"	00-560-5871	Arm
5821-575-4738	"	00-575-4738	Shaft
5821-610-5178	"	00-610-5178	Relay
5821-632-9411	"	00-632-9411	Discriminator
5826-026-9448	5826	00-026-9448	Gasket
5826-090-3725	"	00-090-3725	Mounting
5826-100-0129	"	00-100-0129	Cabinet
5826-705-5920	"	00-705-5920	Gasket
5826-431-9492	"	00-431-9492	Switch
5840-026-9717	5840	00-026-9717	Coupling Assembly
5840-026-9720	"	00-026-9720	Crystal Seat Assembly
5840-036-6952	"	00-036-6952	Transceiver

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5840-093-5829	5840	00-093-5829	Mod Kit
5840-312-0186	"	00-312-0186	Contact
5840-313-7197	"	00-313-7197	Coupling Assembly
5840-368-3848	"	00-368-3848	Contact
5840-368-3867	"	00-368-3867	"
5840-369-6425	"	00-369-6425	Maintenance Kit
5840-387-8565	"	00-387-8565	Gasket
5840-431-7185	"	00-431-7185	Cavity Assembly
5840-431-7192	"	00-431-7192	Chart Calibration
5840-432-2256	"	00-432-2256	Gasket
5840-432-3162	5841	00-432-3162	"
5840-642-5877	5840	00-642-5877	Contact
5840-786-9523	"	00-786-9523	Transceiver
5841-026-9715	5841	00-026-9715	Case Assembly
5841-026-9728	"	00-026-9728	Spring
5841-026-9770	"	00-026-9770	Housing
5841-026-9771	"	00-026-9771	Sweep Generator
5841-026-9774	"	00-026-9774	Power Supply
5841-036-6951	"	00-036-6951	Transceiver
5841-041-3298	"	00-041-3298	Sweep Generator
5841-041-3300	"	00-041-3300	Gasket
5841-090-6899	5840	00-090-6899	Coupling
5841-090-6906	5841	00-090-6906	Clamp
5841-090-6907	"	00-090-6907	Cover
5841-090-6914	"	00-090-6914	Retainer
5841-090-6917	"	00-090-6917	Shaft Gear

<u>Old Identification No.</u>	<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No. Item Name</u>
5841-090-6918	5841	00-090-6918 Spring Large Gear
5841-090-6919	"	00-090-6919 Ring Retaining
5841-180-2180	"	00-180-2180 Indicator
5841-212-7526	"	00-212-7526 Modulator
5841-239-0458	"	00-239-0458 Detector Base & Housing
5841-284-6832	"	00-284-6832 Cover
5841-284-6833	"	00-284-6833 Cover Antenna
5841-310-4783	"	00-310-4783 Probe Assembly
5841-310-4784	"	00-310-4784 Pinion
5841-336-2620	"	00-336-2620 Holden Brush & Gear Assembly
5841-339-1693	"	00-339-1693 Chassis Assembly Main
5841-370-3839	"	00-370-3839 Attenuator Line Section
5841-370-3845	"	00-370-3845 Shaft Assembly
5841-370-3850	"	00-370-3850 Coil R.F. Choke
5841-431-9492	"	00-431-9492 Switch
5841-505-2311	"	00-505-2311 Servo Amplifier
5841-505-2785	"	00-505-2785 Reliability Unit
5841-513-3457	"	00-513-3457 Modulator
5841-543-1329	"	00-543-1329 Housing
5841-543-1330	"	00-543-1330 Transceiver
5841-543-1719	"	00-543-1719 Indicator Height
5841-544-0415	"	00-544-0415 Transformer Assembly

<u>Old Identification No.</u>	<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No. Item Name</u>
5841-552-9080	5841	00-552-9080 Mounting
5841-558-2628	"	00-558-2628 Spring Window Retainer
5841-564-8566	"	00-564-8566 Audio Amplifier
5841-585-7248	"	00-585-7248 Packing Perforated
5841-612-6988	"	00-612-6988 Indicator
5841-623-0055	"	00-623-0055 Amplifier
5841-629-8704	"	00-629-8704 Regulator Assembly
5841-630-0301	"	00-630-0301 Filter Assembly
5841-630-0302	"	00-630-0302 Rectifier
5841-630-0305	"	00-630-0305 Computer Assembly
5841-630-0306	"	00-630-0306 Amplifier Assembly
5841-630-5694	"	00-630-5694 Panel
5841-630-5695	"	00-630-5695 "
5841-630-5696	"	00-630-5696 "
5841-630-9382	"	00-630-9382 "
5841-630-9383	"	00-630-9383 "
5841-630-9384	"	00-630-9384 "
5841-631-4002	"	00-631-4002 Board
5841-631-4003	"	00-631-4003 Circuit
5841-631-4004	"	00-631-4004 "
5841-631-4005	"	00-631-4005 "
5841-631-4006	"	00-631-4006 "
5841-631-4008	"	00-631-4008 Antenna
5841-631-4011	"	00-631-4011 Waveguide
5841-631-4015	"	00-631-4015 Circuit
5841-631-4019	"	00-631-4019 "
5841-631-4023	"	00-631-4023 "

Old Identification No.	New Identification No.	
	Group Class	Catalogue No. Item Name
5841-631-4024	5841	00-631-4024 Circuit
5841-631-7046	"	00-631-7046 "
5841-631-7048	"	00-631-7048 Detector
5841-631-7049	"	00-631-7049 Circuit
5841-632-3279	"	00-632-3279 Gasket
5841-632-3920	5845	00-632-3920 Screw
5841-632-4295	5841	00-632-4295 Gasket
5841-651-8885	"	00-651-8885 Servo Unit
5841-652-2758	"	00-652-2758 Window
5841-652-2760	"	00-652-2760 Gear Assembly
5841-652-9163	"	00-652-9163 Pointer "
5841-652-6594	"	00-653-6594 Plate Dial
5841-654-4213	"	00-654-4213 Pin
5841-654-4214	"	00-654-4214 "
5841-658-7382	"	00-623-0055 Amplifier
5841-693-8222	"	00-693-8222 Sweep Generator
5841-694-2081	"	00-694-2081 Suppressor
5841-716-2129	"	00-716-2129 Dial
5841-785-1936	"	00-785-1936 Power Supply
5841-785-1937	"	00-785-1937 Transreceiver
5841-787-1239	"	00-787-1239 Contact Assembly
5841-884-2933	"	00-884-2933 Knob
5845-632-3920	5845	00-632-3920 Screw Antenna
5845-722-0173	"	00-722-0173 Indicator Cable Length
5895-031-1150	5895	00-031-1150 Contact
5895-238-2681	"	00-238-2681 Control Unit
5895-238-2683	"	00-238-2683 " "
5895-325-8302	"	00-325-8302 Contact
5895-338-4022	"	00-338-4022 I.F. Unit

Old Identification No.	New Identification No.	
	Group Class	Catalogue No. Item Name
5895-433-6458	5895	00-433-6458 I.F. Unit
5895-473-8707	"	00-473-8707 Cover
5895-544-5180	"	00-544-5180 Mounting Base
5895-807-4094	"	00-807-4094 Control Unit
5895-808-9084	"	00-808-9084 Transmitter
5895-808-9088	"	00-808-9088 Coder
5905-212-7405	5905	00-212-7405 Plunger
5905-212-7525	"	00-212-7525 Clamp
5905-351-3497	"	00-351-3497 Attenuator
5910-129-6136	5910	00-129-6136 Retainer
5910-581-2189	"	00-581-2189 Clamp Capacitor
5910-686-8948	5310	00-686-8948 Washer
5915-090-3742	5915	00-090-3742 Network
5915-090-3961	"	00-090-3961 Coil
5915-091-5242	"	00-091-5242 Suppressor
5915-256-0029	"	00-256-0029 Filter
5915-327-4788	"	00-327-4788 Reactor
5915-345-8375	5950	00-532-6909 Transformer
5915-370-3843	5915	00-996-7763 Filter Crystal
5915-376-1261	"	00-376-1261 Network
5915-376-1272	"	00-376-1272 Filter
5915-376-9022	"	00-376-9022 Suppressor
5915-382-9777	"	00-382-9777 Network
5915-501-3651	"	00-501-3651 Coil
5915-501-4038	"	00-501-4038 Filter
5915-546-0451	"	00-546-0451 "
5915-694-6304	"	00-694-6304 Network
5915-840-0599	"	00-840-0599 Filter
5915-849-5825	"	00-849-5825 "
5915-996-7763	"	00-996-7763 "

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5920-142-4795	5920	00-142-4795	Fuse 5.2A
5920-142-6039	"	00-142-6039	" Cart 1.5A 250V
5920-142-7432	"	00-142-7432	" "
5920-199-9484	"	00-199-9484	Fuseholder
5920-229-1309	"	00-229-1309	Fuse Cart
5920-247-3780	"	00-247-3780	Fuse Holder
5920-280-3528	"	00-280-3528	Fuse
5920-280-4465	"	00-280-4465	"
5920-280-5031	"	00-280-5031	"
5920-280-8594	"	00-280-8594	Fuseholder
5920-281-0208	"	00-281-0208	Fuse 1A
5920-281-0209	"	00-281-0209	" Cart. 3A 250V
5920-281-0224	"	00-281-0224	Fuse Time Delay 5A 250V
5920-284-4156	"	00-284-4156	Fuse
5920-284-7144	"	00-284-7144	Fuseholder
5920-501-1658	"	00-501-1658	Fuse 2A
5920-295-9702	"	00-295-9702	"
5920-503-3572	"	00-503-3572	"
5920-510-5428	"	00-510-5428	"
5920-517-6024	"	00-517-6024	"
5920-604-2537	"	00-604-2537	"
5920-608-8974	"	00-608-8974	"
5920-846-5725	"	00-846-5725	"
5920-879-3570	"	00-879-3570	"
5921-250-1805	5921	00-250-1805	Terminal Antenna
5930-028-0065	5930	00-028-0065	Switch Micro Actuator
5930-049-9764	5930	00-049-9764	Switch
5930-050-2709	"	00-050-2709	"
5930-090-4181	"	00-090-4181	Boot

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5930-108-6811	5930	00-108-6811	Switch
5930-217-2975	"	00-217-2975	Cam
5930-230-2561	"	00-230-2561	Switch
5930-243-1046	"	00-243-1046	Detent
5930-255-5779	"	00-255-5779	Switch
5930-296-4930	"	00-296-4930	"
5930-296-7115	"	00-544-8281	"
5930-303-8117	"	00-303-8117	Boot, Toggle
5930-315-3896	"	00-315-3896	Cover for Switch
5930-351-3904	"	00-351-3904	Cover
5930-351-3947	"	00-351-3947	Detent
5930-351-7178	"	00-351-7178	Switch
5930-369-8514	"	00-369-8514	"
5930-369-8549	"	00-369-8549	"
5930-369-8550	"	00-369-8550	"
5930-369-8551	"	00-369-8551	"
5930-432-2599	"	00-432-2599	"
5930-472-1932	"	00-472-1932	"
5930-498-7049	"	00-498-7049	"
5930-508-5944	"	00-508-344	"
5930-519-9207	"	00-519-9207	"
5930-548-3176	"	00-548-3176	"
5930-548-4603	"	00-548-4603	"
5930-548-8082	"	00-548-8082	"
5930-548-8086	"	00-548-8086	"
5930-548-8777	"	00-548-8777	Boot
5930-548-8955	"	00-548-8955	Switch
5930-548-9344	"	00-548-9344	Spring
5930-557-6151	"	00-557-6151	Thermostat
5930-589-7628	"	00-589-7628	Switch Wafer
5930-617-5271	"	00-617-5271	" Toggle

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5930-646-4619	5930	00-646-4619	Switch Toggle
5930-652-1788	"	00-652-1788	" "
5930-655-1508	"	00-655-1508	"
5930-655-1513	"	00-655-1513	"
5930-655-1514	"	00-655-1514	"
5930-655-1575	"	00-655-1575	" "
5930-655-1582	"	00-655-1582	"
5930-669-7907	"	00-669-7907	Switch Haseltine
5930-669-7968	"	00-669-7968	"
5930-729-7295	"	00-729-7295	" Sensitive
5930-978-2754	"	00-978-2754	"
5935-028-3612	5935	00-028-3612	Adaptor
5935-090-6591	"	00-090-6591	Contact
5935-148-9378	"	00-148-9378	Plug
5935-149-3427	"	00-149-3427	Receptacle
5935-149-3534	"	00-149-3534	Adaptor Straight
5935-149-3555	"	00-149-3555	"
5935-149-4055	"	00-258-7410	Plug
5935-149-4066	"	00-539-0194	Connector
5935-149-4236	"	00-149-4236	Socket
5935-149-5358	"	00-149-5358	Plug
5935-160-1365	"	00-160-1365	Socket Tube
5935-170-5323	"	00-170-5323	Receptacle
5935-171-3016	"	00-171-3016	Adaptor
5935-173-5908	"	00-173-5908	Plug
5935-187-4291	"	00-187-4291	Cap
5935-187-5225	"	00-187-5225	Receptacle
5935-192-1398	"	00-192-1398	Plug
5935-192-4729	"	00-192-4729	Jack
5935-193-2960	"	00-193-2960	Plug
5935-193-3080	"	00-666-1334	Connector

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5935-193-3550	5935	00-193-3550	Receptacle
5935-193-3551	"	00-193-3551	Connector
5935-195-9024	"	00-195-9024	Socket
5935-195-9139	"	00-195-9139	Plug
5935-196-2234	"	00-196-2234	"
5935-197-0600	"	00-197-0600	Resistor
5935-197-3939	"	00-197-3939	Socket
5935-198-9635	"	00-198-9635	"
5935-199-6204	"	00-199-6204	Cap
5935-201-3127	"	00-201-3127	Receptacle
5935-201-3511	"	00-201-3511	"
5935-201-4783	"	00-201-4785	Socket
5935-201-5983	"	00-201-5983	Receptacle
5935-201-8072	"	00-201-8072	"
5935-201-9490	"	00-201-9490	Jack Tip
5935-204-5825	"	00-204-5825	Receptacle
5935-204-6385	"	00-204-6385	Plug
5935-204-9224	"	00-204-9224	Connector
5935-222-7420	"	00-222-7420	"
5935-222-9828	"	00-222-9828	Socket
5935-222-9921	"	00-222-9921	"
5935-223-0572	"	00-223-0572	Clamp
5935-223-0573	"	00-223-0573	"
5935-223-0579	"	00-223-0579	"
5935-223-0580	"	00-223-0580	"
5935-224-1012	"	00-224-1012	Socket
5935-227-8407	"	00-227-8407	"
5935-231-5898	"	00-231-5898	Adaptor
5935-232-3758	"	00-232-3758	Socket
5935-236-4640	"	00-236-4640	Connector
5935-237-4632	"	00-237-4632	"
5935-237-4637	"	00-237-4637	"
5935-240-0173	"	00-240-0173	Adaptor

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-241-4075	5935	00-241-4075	Connector
5935-241-9514	"	00-241-9514	Receptacle
5935-243-0458	"	00-243-0458	"
5935-244-5728	"	00-602-8813	Connector
5935-248-5838	"	00-248-5838	"
5935-249-3303	"	00-249-3303	Shell
5935-252-2739	"	00-252-2739	Adaptor
5935-252-2742	"	00-252-2742	"
5935-256-8693	"	00-256-8693	Socket
5935-257-7159	"	00-257-7159	"
5935-257-7324	"	00-257-7324	Connector
5935-257-8683	"	00-257-8683	"
5935-257-8996	"	00-257-8996	"
5935-258-3837	"	00-258-3837	"
5935-258-7410	"	00-258-7410	Plug
5935-258-7429	"	00-258-7429	Adaptor
5935-258-8865	"	00-258-8865	Socket
5935-258-8994	"	00-258-8994	Plug
5935-259-0015	"	00-259-0015	Jack Tip
5935-259-0071	"	00-259-0071	Plug
5935-259-0594	"	00-259-0594	Jack
5935-259-2563	"	00-259-2563	Cap
5935-259-4092	"	00-259-4092	Receptacle
5935-259-4690	"	00-259-4690	Connector
5935-259-5972	"	00-259-5972	Plug
5935-259-6257	"	00-259-6257	Connector
5935-259-7379	"	00-259-7379	Terminal
5935-259-7522	"	00-259-7522	Receptacle
5935-259-9186	"	00-259-9186	Connector
5935-260-0156	"	00-260-0156	Socket Tube
5935-260-0516	"	00-260-0516	" "
5935-262-9341	"	00-262-9341	Connector

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-274-5745	5935	00-274-5745	Plug
5935-274-6917	"	00-274-6917	Connector
5935-274-7293	"	00-274-7293	Plug
5935-274-7295	"	00-274-7295	"
5935-274-7313	"	00-274-7313	"
5935-276-9404	"	00-276-9404	"
5935-280-1535	"	00-280-1935	Clamp
5935-280-1944	"	00-280-1944	Cap
5935-280-2192	"	00-280-2192	Adaptor
5935-280-2195	"	00-280-2195	"
5935-280-2264	"	00-280-2264	Connector
5935-280-2269	"	00-280-2269	"
5935-280-2352	"	00-280-2352	Adaptor
5935-283-1269	"	00-283-1269	Jack
5935-283-2887	"	00-283-2887	Connector
5935-284-3992	"	00-284-3992	Socket
5935-295-4840	"	00-295-4840	Cap
5935-323-1867	"	00-323-1867	Receptacle
5935-332-8556	"	00-332-8556	Jack
5935-500-5635	"	00-500-5635	Plug
5935-502-3148	"	00-502-3148	Receptacle
5935-539-0194	"	00-539-0194	Plug
5935-552-3607	"	00-552-3607	Socket
5935-556-7486	"	00-556-7486	"
5935-557-4758	"	00-557-4758	Plug
5935-557-0313	"	00-557-0313	"
5935-557-2281	"	00-557-2281	Receptacle
5935-578-4027	"	00-578-4027	Plug
5935-578-4028	"	00-578-4028	Receptacle
5935-578-9510	"	00-578-9510	"
5935-611-2536	"	00-611-2536	"
5935-617-2078	"	00-617-2078	"
5935-617-6855	"	00-617-6855	Receptacle

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-633-1434	5935	00-633-1434	Receptacle
5935-633-7066	"	00-633-7066	"
5935-636-6615	"	00-636-6615	Socket
5935-643-6718	"	00-643-6718	Connector
5935-643-7095	"	00-643-7095	Adaptor
5935-655-3520	"	00-655-3520	Connector
5935-665-4055	"	00-665-4055	"
5935-665-8031	"	00-665-8031	Receptacle
5935-666-4338	"	00-666-4338	Socket
5935-666-4849	"	00-666-4849	Clamp
5935-681-4905	"	00-681-4905	Receptacle
5935-681-5789	"	00-681-5789	"
5935-681-5794	"	00-681-5794	"
5935-721-0490	"	00-721-0490	"
5935-754-5617	"	00-754-5617	"
5935-755-3062	"	00-755-3062	Plug
5935-755-3144	"	00-755-3144	"
5935-800-9858	"	00-800-9858	Connector
5935-801-6621	"	00-801-6621	Receptacle
5935-823-0487	"	00-823-0487	Plug
5935-821-0345	"	00-821-0345	Connector
5935-821-3445	"	00-821-3445	"
5935-878-3573	"	00-878-3573	"
5940-156-7430	5940	00-156-7430	Terminal Lug
5940-180-2808	"	00-180-2808	Clip
5940-229-7553	"	00-229-7553	Terminal Lug
5940-234-0045	"	00-234-0045	Board Terminal
5940-243-0385	"	00-243-0385	Terminal
5940-245-7252	"	00-245-7252	Clip
5940-258-5319	"	00-258-5319	Terminal Pinnet
5940-279-5349	"	00-279-5349	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5940-280-0601	5940	00-280-0601	Terminal
5940-502-3732	"	00-502-3732	" Lug
5940-536-5314	"	00-536-5314	" "
5940-539-0849	"	00-539-0849	Terminal Antenna
5945-180-8053	5945	00-180-8053	Relay
5945-184-5923	"	00-184-5923	"
5945-189-3107	"	00-189-3107	"
5945-189-8624	"	00-189-8624	"
5945-189-8642	"	00-189-8642	"
5945-189-8644	"	00-189-8644	"
5945-201-8623	"	00-201-8623	"
5945-227-6995	"	00-227-6995	"
5945-232-5858	"	00-232-5858	"
5945-237-1345	"	00-237-1345	"
5945-250-8661	"	00-250-8661	"
5945-257-0317	"	00-257-0317	"
5945-260-2798	"	00-260-2798	"
5945-283-6537	"	00-283-6537	" Thermal
5945-283-6541	"	00-283-6541	" Armature
5945-309-3797	"	00-309-3797	Contact
5945-432-6586	"	00-432-6586	Relay
5945-501-5459	"	00-501-5459	"
5945-546-8815	"	00-546-8815	"
5945-549-9684	"	00-260-2798	"
5945-553-9740	"	00-553-9740	"
5945-577-7273	"	00-883-2965	"
5945-578-8284	"	00-578-8284	"
5945-615-2289	"	00-615-2289	"
5945-599-9304	"	00-599-9304	Coil
5945-615-3211	"	00-615-3211	Relay
5945-617-7072	"	00-617-7072	"
5945-617-7073	"	00-617-7073	"

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5945-617-7804	5945	00-617-7804	Relay
5945-644-5183	"	00-644-5183	Relay Armature
5945-660-6415	"	00-660-6415	"
5945-673-5666	"	00-673-5666	" Thermal
5945-803-4706	"	00-803-4706	"
5945-805-8053	"	00-805-8053	"
5945-812-2436	"	00-812-2436	"
5945-850-6533	"	00-850-6533	"
5945-850-8422	"	00-850-8422	"
5945-884-3464	"	00-884-3464	Chopper
5950-026-9734	5950	00-026-9734	Reactor Filter 0.6H
5950-028-0067	"	00-028-0067	Transformer
5950-031-1063	"	00-031-1063	Coil
5950-031-1064	"	00-031-1064	"
5950-031-1065	"	00-031-1065	"
5950-031-1066	"	00-031-1066	"
5950-031-1067	"	00-031-1067	"
5950-090-0211	"	00-090-0211	Transformer
5950-093-7157	"	00-093-7157	"
5950-093-7158	"	00-093-7158	"
5950-093-7159	"	00-093-7159	"
5950-151-7417	"	00-151-7417	"
5950-151-7497	"	00-151-7497	"
5950-189-3635	"	00-189-3635	Coil
5950-199-2518	"	00-199-2518	Reactor
5950-199-2521	"	00-199-2521	"
5950-223-3953	"	00-223-3953	Coil
5950-224-4445	"	00-224-4445	"
5950-228-1760	"	00-228-1760	Reactor
5950-228-7168	"	00-228-7168	Coil
5950-228-7206	"	00-228-7206	"

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5950-228-7625	5950	00-228-7625	Coil
5950-229-6876	"	00-229-6876	Transformer IP
5950-229-6888	"	00-229-6888	"
5950-235-7065	"	00-235-7065	Reactor
5950-236-8142	"	00-236-8142	Coil
5950-237-1517	"	00-237-1517	"
5950-237-1518	"	00-237-1518	"
5950-241-3465	"	00-241-3465	"
5950-250-7548	"	00-250-7548	Transformer
5950-250-7588	"	00-250-7588	"
5950-255-3500	"	00-255-3500	"
5950-265-5588	"	00-265-5588	Coil
5950-280-4219	"	00-280-4219	Reactor
5950-280-4609	"	00-280-4609	Transformer
5950-280-4668	"	00-280-4668	Transformer Input
5950-280-4662	"	00-280-4662	Transformer Audio Input
5950-337-9563	"	00-337-9563	Transformer Plate
5950-338-4172	"	00-338-4172	Core
5950-351-5511	"	00-351-5511	Coil
5950-351-7346	"	00-351-7346	Suppressor
5950-370-3852	"	00-617-3188	Coil R.P.
5950-378-3294	"	00-378-3294	Transformer
5950-387-1497	"	00-387-1497	"
5950-431-7596	"	00-431-7596	Coil
5950-432-3513	"	00-432-3513	Transforme.
5950-432-3557	"	00-432-3557	"
5950-473-8677	"	00-473-8677	Network
5950-473-8678	"	00-473-8678	"
5950-473-8679	"	00-473-8679	"
5950-547-9749	"	00-547-9749	Insulator

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5950-610-5713	5950	00-610-5713	Coil
5950-611-6562	"	00-611-6562	Transformer
5950-617-3188	"	00-648-3191	Coil
5950-617-3189	"	00-617-3189	"
5950-633-0470	"	00-633-0470	Reactor Power
5950-633-0471	"	00-633-0471	Transformer Power
5950-633-0472	"	00-633-0472	"
5950-633-0473	"	00-633-0473	"
5950-633-0474	"	00-633-0474	Reactor
5950-633-0475	"	00-633-0475	Transformer
5950-633-0476	"	00-633-0476	Reactor
5950-633-0477	"	00-633-0477	Transformer
5950-633-0478	"	00-633-0478	Reactor
5950-633-0479	"	00-L53870	Transformer Power
5950-633-0480	"	00-633-0480	Transformer Audio
5950-633-1436	"	00-633-1436	Transformer Power
5950-645-3637	"	00-645-4998	Coil
5950-645-4041	"	00-645-4091	"
5950-645-4206	"	00-041-2143	"
5950-645-7002	"	00-645-7002	Core
5950-645-7005	"	00-645-7005	"
5950-645-7177	"	00-645-7177	Transformer
5950-645-7228	"	00-645-7228	Coil
5950-645-7343	"	00-645-7343	Transformer
5950-645-7777	"	00-645-7757	"
5950-646-3478	"	00-646-3478	Coil
5950-647-5078	"	00-647-5078	Transformer
5950-648-1238	"	00-648-1238	Coil
5950-648-1906	"	00-648-1906	Reactor Filter

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5950-648-2008	5950	00-648-2808	Reactor
5950-648-2959	"	00-648-2959	"
5950-648-3191	"	00-300-3603	Coil
5950-653-6623	"	00-653-6623	Transformer
5950-681-7242	"	00-681-7242	Coil
5950-717-3189	"	00-717-3189	"
5950-789-2328	"	00-789-2328	Transformer
5950-846-0601	"	00-846-0601	"
5950-847-2301	"	00-847-2301	"
5950-847-2302	"	00-847-2302	"
5950-847-2303	"	00-847-2303	"
5950-850-6791	"	00-850-6791	"
5950-850-6792	"	00-060-8663	"
5950-850-7810	"	00-850-7810	"
5950-850-7811	"	00-850-7811	"
5950-850-7812	"	00-850-7812	"
5950-851-6057	"	00-851-6057	"
5950-852-2395	"	00-852-2395	"
5950-852-5529	"	00-852-5529	"
5950-852-7428	"	00-852-7428	"
5950-854-8973	"	00-854-8973	"
5950-864-3724	"	00-864-3724	"
5950-881-1547	"	00-881-1547	"
5955-644-2457	5955	00-644-2457	Knob
5960-151-7568	5960	00-151-7568	Clamp Valve Base
5960-161-0723	"	00-161-0723	Shield
5960-220-9743	"	00-220-9743	Clip
5960-262-0015	"	00-262-0015	Shield
5960-262-0347	"	00-262-0347	"
5960-264-3004	"	00-264-3004	"
5960-272-7453	"	00-272-7453	Contact
5960-272-9092	"	00-272-9092	Shield
5960-272-9094	"	00-272-9094	"

<u>Old Identification No.</u>			<u>New Identification No.</u>
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5960-273-3039	5960	00-273-3039	Clamp Electron Tube
5960-284-4352	"	00-284-4352	Shield
5960-295-9369	"	00-295-9369	"
5960 296-0631	"	00-296-0631	"
5960-324-7291	"	00-324-7291	" Tube
5960-372-3407	"	00-372-3407	Holder
5960-372-3413	"	00-372-3413	"
5960-390-5808	"	00-390-5808	Clip
5960-390-9776	"	00-390-9776	Shield
5960-390-9788	"	00-390-9788	Retainer Kit Tube
5960-390-9789	"	00-390-9789	" " "
5960-538-1278	"	00-538-1278	Can Screening Ventilated
5960-632-3283	"	00-632-3283	Spring
5960-686-8087	"	00-686-8087	Shield
5960-686-8119	"	00-686-8119	"
5960-688-6924	"	00-688-6924	"
5960-729-8150	"	00-729-8150	"
5970-117-5197	5970	00-117-5197	Insulator Stand Off
5970-118-1152	"	00-118-1152	" " "
5970-222-6604	"	00-222-6604	"
5970-280-4862	"	00-280-4862	" " "
5970-307-0749	"	00-307-0749	"
5970-313-8193	"	00-313-8193	"
5970-318-1579	"	00-318-1579	Panel
5970-318-7124	"	00-318-7124	Connector
5970-561-6766	"	00-561-6766	Insulator
5970-562-4103	"	00-562-4103	Insulator Choke Frame
5970-632-3281	"	00-632-3281	"
5970-632-3282	"	00-632-3282	"
5970-632-2733	"	00-284-8726	"
5975-031-1703	5975	00-031-1703	Spring Brush
5975-615-5369	"	00-615-5369	Nut

<u>Old Identification No.</u>			<u>New Identification No.</u>
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5975-644-3176	5975	00-644-3176	Seal
5977-165-0737	5977	00-165-0737	Brush
5977-178-8135	"	00-178-8135	"
5977-238-6852	"	00-238-6852	"
5985-092-8740	5985	00-092-8740	Switch
5985-240-3975	"	00-240-3975	Load Dummy
5985-258-6634	"	00-258-6634	Terminal
5985-284-6832	5841	00-284-6832	Cover Antenna
5985-296-0643	5985	00-296-0643	Aerial
5985-548-9567	"	00-548-9567	Coupler
5985-548-9629	"	00-548-9629	Antenna
5985-568-0795	"	00-568-0795	Shield
5990-631-4703	5990	00-631-4703	Synchro
5990-634-7128	"	00-634-7128	Spring Micro Switch
5990-677-6473	"	00-677-6473	Synchro
5995-519-1342	5995	00-519-1342	Cord Cable
5995-519-1353	"	00-519-1353	" "
6105-031-1681	6105	00-031-1681	Clamp Motor
6105-031-1682	6105	00-031-1682	"
6105-237-3682	"	00-237-3682	Motor
6105-325-9356	"	00-325-9356	" Blower
6105-513-1537	"	00-513-1537	"
6105-804-7208	"	00-804-7208	"
6105-849-7817	"	00-849-7817	"
6110-305-7718	6110	00-305-7718	Regulator
6125-325-9053	6125	00-325-9053	Dynamotor
6125-406-0641	"	00-406-0641	Base
6125-496-9988	"	00-496-9988	Dynamotor
6125-589-4995	"	00-589-4995	"
6130-031-2711	6130	00-031-2711	Spring
6130-548-0816	"	00-548-0816	Rectifier
6130-635-6126	"	00-635-6126	" Metallic
6210-233-5333	6210	00-223-5333	Light
6210-299-4100	"	00-299-4100	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
6210-299-4558	6210	00-299-4558	Light
6210-299-5266	"	00-299-5266	"
6210-501-8433	"	00-299-8433	Cap
6210-635-3354	"	00-635-3354	Light Indicator
6210-652-3430	"	00-652-3430	"
6220-243-8138	6220	00-243-8138	" " Shielded
6240-012-7934	6240	00-012-7934	Lamp
6240-155-7836	"	00-155-7836	"
6240-179-1811	"	00-179-1811	"
6240-223-9100	"	00-223-9100	"
6250-283-9746	6250	00-283-9746	Lampholder
6610-416-9129	6610	00-416-9129	Pin
6615-031-1688	6615	00-031-1688	Yoke Assembly
6625-025-7110	6625	00-025-7110	Meter
6625-031-0408	"	00-031-0408	Oscilloscope
6625-031-1061	"	00-031-1061	Tube Support
6625-031-1697	"	00-031-1697	Panel
6625-090-6539	"	00-090-6539	Tripler
6625-229-0392	"	00-229-0392	Meter
6625-241-0842	"	00-241-0842	"
6625-284-0264	"	00-284-0264	Indicator Line Voltage
6625-304-7270	"	00-304-7270	Gear
6625-304-7271	"	00-304-7271	Contact
6625-308-5044	"	00-308-5044	Gear
6625-308-5045	"	00-308-5045	Drive
6625-309-5252	"	00-309-5252	Gasket
6625-321-5607	"	00-321-5607	Gear
6625-338-4200	"	00-338-4200	Oscillator
6625-340-2107	"	00-340-2107	Gasket
6625-343-9617	"	00-343-9617	Housing
6625-351-4335	"	00-351-4335	Gear
6625-373-1897	"	00-373-1897	Cable

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
6625-373-1900	6625	00-273-1900	Case
6625-373-3163	"	00-276-3163	Cable
6625-375-2381	"	00-275-2381	Tuning Unit
6625-376-4912	"	00-276-4912	Case
6625-382-9777	"	00-382-9777	Oscillator
6625-390-5770	"	00-390-5770	Vacuum Tube
6625-390-5771	"	00-390-5771	Oscillator
6625-535-9542	"	00-535-9542	Mounting Plate
6625-548-0678	"	00-548-0678	Test Set
6625-561-2072	"	00-561-2072	Delay Line
6625-568-1754	"	00-568-1754	Probe
6625-580-0561	"	00-580-0561	Multimeter
6625-590-3609	"	00-590-3609	Test Set
6625-610-2078	"	00-610-2078	" "
6625-627-1835	"	00-627-1835	" "
6625-643-2272	"	00-643-2272	Meter
6625-657-1578	"	00-657-1578	Attenuator
6625-662-9241	"	00-662-9241	Meter
6625-663-9241	"	00-663-9241	"
6625-668-9241	"	00-668-9241	"
6625-715-9672	"	00-061-3602	"
6625-717-6652	"	00-717-6652	Calibrator Radio Altimeter
6625-717-6680	"	00-717-6680	Test Kit
6625-752-7680	"	00-752-7680	" Set
6680-249-0931	"	00-249-0931	Counter Mechanical
6680-268-7216	"	00-268-7216	"
6680-874-5473	"	00-874-5473	Wheel Counter
6680-874-5474	"	00-874-5474	" "
6680-599-5241	"	00-599-5241	Dehydrator
1560-333-7797	"	00-333-7797	Gasket
1560-572-0826	"	00-572-0826	Fitter Assembly
1560-797-8911	"	00-797-8911	Vertical Stabilizer

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>New Identification No.</u>	<u>Item Name</u>
4330-024-9665	4330	00-024-9665		Fitter
4730-200-0535	4730	00-200-0535		Clamp Hose
5305-207-3197	5305	00-207-3197		Screw
5305-208-8311	"	00-208-8311		"
5305-819-7087	"	00-819-7087		"
5306-145-7718	5306	00-145-7718		Bolt
5310-286-8440	5310	00-286-8440		Washer
5310-811-7462	"	00-811-7462		Shim
5330-222-2767	5330	00-222-2767		Packing Preformed
5340-205-6519	5340	00-205-6519		Ring Retaining
5340-205-6229	"	00-205-6229		Clamp Loop
5340-285-7729	"	00-285-7729		" "
5340-526-3993	"	00-526-3993		Mount Resilient
5340-704-6687	"	00-704-6687		Holder
5340-721-4845	"	00-721-4845		"
5355-644-2457	5355	00-644-2457		Knob
5355-667-7456	"	00-667-7456		Pointer
5355-816-3539	"	00-816-3539		Screw
5820-041-3297	5820	00-041-3297		Reliability Chassis
5820-671-1027	"	00-671-1027		Post
5820-973-3581	"	00-973-3581		Transmitter
5821-338-1588	5821	00-338-1588		Pickup Red
5821-757-2028	"	00-757-2028		Antenna
5825-771-5092	5825	00-771-5092		Button
5826-505-3094	5826	00-505-3094		Indicator
5840-026-9717	5840	00-026-9717		Coupling Assembly
5841-026-9392	5841	00-026-9392		Waveguide
5841-031-1683	"	00-031-1683		Pinion Gear
5841-342-2114	"	00-342-2114		Chassis Assembly Reliability
5841-432-3162	"	00-432-3162		Gasket Berry Copper
5841-631-4020	"	00-631-4020		Board Wiring
5841-631-4021	"	00-631-4021		" "

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>New Identification No.</u>	<u>Item Name</u>
5841-652-2761	5841	00-652-2761		Commutator
5895-045-4690	5895	00-045-4690		Gasket
5895-070-7076	"	00-070-7076		"
5895-432-3558	"	00-432-3558		Transformer
5895-776-6079	"	00-776-6079		Network Oscillator Tuning
5895-877-2446	"	00-877-2446		Resistor
5895-951-8901	"	00-951-8901		Antenna Rod-Vertical Stabiliser
5905-513-2933	5905	00-513-2933		Rheostat
5905-708-3660	"	00-708-3660		"
5915-055-6067	5915	00-055-6067		Filter
5915-068-9110	"	00-068-9110		Filter Band Pass
5915-068-9116	"	00-068-9116		" " "
5915-269-3749	"	00-269-3749		" " "
5915-370-3843	"	00-370-3843		" Crystal
5915-631-7052	"	00-631-7052		Wiring Board
5915-828-4813	"	00-828-4813		Parasitic Suppressor
5915-828-4814	"	00-828-4814		" "
5920-229-1341	5920	00-229-1341		Fuse
5920-280-5024	"	00-280-5024		"
5920-553-4324	"	00-553-4324		Fuseholder
5925-308-5118	5925	00-308-5118		Bridge
5925-374-4852	"	00-374-4852		Electrical Cut Out
5925-837-1896	"	00-837-1896		Circuit Breaker
5935-019-5878	5935	00-019-5878		Connector Receptacle
5935-059-9987	"	00-059-9987		"
5935-059-9988	"	00-059-9988		"
5935-061-2476	"	00-061-2476		" "
5935-061-7744	"	00-061-7744		Jack Tip
5935-080-6959	"	00-080-6959		Connector
5935-149-2901	"	00-149-2901		"
5935-149-3381	"	00-149-3381		"
5935-196-2197	"	00-201-3157		"

<u>Old Identification No.</u>	<u>New Identification No.</u>		<u>Item Name</u>
	<u>Group Class</u>	<u>Catalogue No.</u>	
5935-201-7456	5935	00-201-7456	Hood Right Angle
5935-201-7969	"	00-201-7969	Plug
5935-201-7973	"	00-201-7973	"
5935-201-8476	"	00-201-8476	Connector
5935-201-8532	"	00-201-8532	Socket Elec Tube
5935-222-7852	"	00-222-7852	Plug
5935-231-8158	"	00-231-8158	Connector
5935-232-5553	"	00-232-5553	Receptacle
5935-237-6568	"	00-237-6568	"
5935-237-6622	"	00-237-6622	Socket
5935-238-9459	"	00-238-9459	Connector Plug
5935-255-0977	"	00-255-0977	" "
5935-258-0157	"	00-258-0157	Socket
5935-258-1569	"	00-258-1569	Plug
5935-258-4666	"	00-258-4666	Receptacle
5935-280-1873	"	00-280-1873	Connector
5935-280-2460	"	00-280-2460	Plug
5935-295-5360	"	00-295-5360	Connector
5935-296-8004	"	00-296-8004	Plug
5935-310-4275	"	00-310-4275	Receptacle
5935-392-6274	"	00-392-6274	Connector
5935-439-8900	"	00-439-8900	Receptacle
5935-500-5018	"	00-500-5018	Cover
5935-500-9888	"	00-500-9888	Plug
5935-501-5747	"	00-501-5747	Socket
5935-502-7660	"	00-502-7660	Connector
5935-502-9251	"	00-502-9251	"
5935-503-9458	"	00-503-9458	Socket
5935-504-3684	"	00-504-3684	Connector
5935-504-4028	"	00-504-4028	Receptacle
5935-518-9344	"	00-518-9344	Connector
5935-521-0034	"	00-521-0034	Adaptor

<u>Old Identification No.</u>	<u>New Identification No.</u>		<u>Item Name</u>
	<u>Group Class</u>	<u>Catalogue No.</u>	
5935-534-7891	5935	00-534-7891	Receptacle
5935-539-0203	"	00-539-0203	Connector
5935-539-0259	"	00-539-0259	"
5935-539-2650	"	00-539-2650	Plug
5935-539-5928	"	00-539-5928	Hood Connector
5935-542-8160	"	00-542-8160	Connector
5935-542-8161	"	00-542-8161	"
5935-549-1699	"	00-549-1699	"
5935-549-4212	"	00-549-4212	"
5935-552-2384	"	00-552-2384	Plug
5935-552-2668	"	00-552-2668	"
5935-552-7921	"	00-552-7921	Connector
5935-553-3283	"	00-553-3283	Plug
5935-557-1626	"	00-557-1626	Electrical Cap
5935-557-1761	"	00-557-1761	Connector
5935-557-1815	"	00-557-1815	Adaptor
5935-560-5877	"	00-560-5877	Cap
5935-577-0396	"	00-577-0396	Socket
5935-577-2220	"	00-577-2220	Connector
5935-578-9206	"	00-578-9206	Receptacle
5935-581-6757	"	00-581-6757	Connector D.C. Output
5935-581-7837	"	00-581-7837	"
5935-581-7838	"	00-581-7838	"
5935-581-9543	"	00-581-9543	"
5935-583-5504	"	00-583-5504	"
5935-590-3865	"	00-590-3865	"
5935-600-1890	"	00-600-1890	Plug
5935-602-8813	"	00-602-8813	Connector
5935-607-0255	"	00-607-0255	"
5935-614-0533	"	00-614-0533	"
5935-614-0534	"	00-614-0534	Receptacle
5935-615-1451	"	00-615-1451	Connector
5935-615-3026	"	00-615-3026	"

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-615-3777	5935	00-615-3777	Connector
5935-615-6268	"	00-615-6268	Plug
5935-615-6732	"	00-615-6732	Hood
5935-615-6784	"	00-615-6784	Jack Orange
5935-615-9130	"	00-615-9130	" Green
5935-618-9564	"	00-618-9564	Connector Plug
5935-636-8290	"	00-636-8290	Receptacle
5935-642-0979	"	00-642-0979	Shield
5935-642-5387	"	00-642-5387	Connector
5935-643-5391	"	00-643-5391	Plug
5935-643-6904	"	00-643-6904	Connector
5935-646-5949	"	00-646-5949	Cover
5935-660-4296	"	00-660-4296	Connector Plug
5935-660-4302	"	00-660-4302	" "
5935-660-5472	"	00-660-5472	" "
5935-660-6005	"	00-660-6005	"
5935-665-4890	"	00-665-4890	Socket
5935-665-5125	"	00-665-5125	Jack. Telephone
5935-665-9015	"	00-665-9015	Connector
5935-666-1334	"	00-666-1334	"
5935-666-1649	"	00-666-1649	"
5935-666-3003	"	00-666-3003	Receptacle
5935-680-9970	"	00-680-9970	Jack. Red.
5935-681-3371	"	00-681-3371	Socket Electron
5935-681-3638	"	00-681-3638	Plug
5935-681-6685	"	00-681-6685	Connector
5935-682-0477	"	00-682-0477	"
5935-682-0478	"	00-682-0478	"
5935-682-0479	"	00-682-0479	"
5935-683-4979	"	00-683-4979	Adaptor
5935-683-7648	"	00-683-7648	Jack-Tip
5935-683-7649	"	00-683-7649	" Yellow

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-683-7657	5935	00-683-7657	Jack Blue
5935-686-0447	"	00-686-0447	Connector
5935-686-9539	"	00-686-9539	"
5935-686-9540	"	00-686-9540	"
5935-704-5994	"	00-704-5994	Plug
5935-713-8388	"	00-713-8388	"
5935-716-6498	"	00-716-6498	Connector
5935-725-4583	"	00-725-4583	Connector Plug
5935-725-4597	"	00-725-4597	Plug
5935-725-4638	"	00-725-4638	Connector
5935-725-6622	"	00-725-6622	Plug
5935-726-0678	"	00-726-0678	"
5935-726-6138	"	00-726-6138	Connector
5935-727-3875	"	00-727-3875	Plug
5935-729-5251	"	00-729-5251	Jack Brown
5935-736-7879	"	00-736-7879	Connector
5935-752-2793	"	00-752-2793	Plug
5935-752-2992	"	00-752-2992	Socket
5935-754-8711	"	00-754-8711	Plug
5935-755-3144	"	00-755-3144	"
5935-755-3428	"	00-755-3428	Jack Tip
5935-755-3624	"	00-755-3624	Connector
5935-755-3804	"	00-755-3804	Plug
5935-778-2317	"	00-778-2317	Receptacle
5935-787-7382	"	00-787-7382	Plug
5935-800-9858	"	00-800-9858	Connector
5935-801-6618	"	00-801-6618	Receptacle
5935-801-6620	"	00-801-6620	Connector
5935-801-6622	"	00-801-6622	"
5935-805-4991	"	00-805-4991	"
5935-806-2638	"	00-806-2638	Jack Brown
5935-807-8920	"	00-807-8920	Connector
5935-808-2356	"	00-808-2356	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-809-2115	5935	00-809-2115	Insert Co-Axial
5935-810-9409	"	00-810-9409	Connector
5935-811-1381	"	00-811-1381	"
5935-811-3234	"	00-811-3234	Jack, Red
5935-811-5676	"	00-811-5676	Connector
5935-812-3268	"	00-812-3268	Plug
5935-813-4716	"	00-813-4716	Connector
5935-813-4717	"	00-813-4717	"
5935-814-4120	"	00-814-4120	"
5935-814-9781	"	00-814-9781	Plug
5935-815-0514	"	00-815-0514	Connector
5935-818-3448	"	00-818-3448	Connector Plug
5935-818-4325	"	00-818-4325	Connector
5935-820-0555	"	00-820-0555	Plug
5935-820-3114	"	00-820-3114	Cover
5935-822-1772	"	00-822-1772	Connector
5935-825-7405	"	00-825-7405	" Plug
5935-826-8559	"	00-826-8559	Retainer Electron Tube
5935-828-1342	"	00-828-1342	Hood
5935-829-3154	"	00-829-3154	Tip, Jack.
5935-833-2004	"	00-833-2004	"
5935-834-2008	"	00-834-2008	Connector
5935-835-4338	"	00-835-4338	Plug
5935-835-4987	"	00-835-4937	Connector
5935-836-1417	"	00-836-1417	Plug
5935-842-3100	"	00-842-3100	Connector
5935-842-9342	"	00-842-9342	"
5935-843-9008	"	00-843-9008	"
5935-846-2177	"	00-846-2177	"
5935-846-2329	"	00-846-2329	"
5935-849-4268	"	00-849-4268	Plug
5935-849-7171	"	00-849-7171	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5935-849-7188	5935	00-849-7188	Receptacle
5935-849-7189	"	00-849-7189	"
5935-856-5685	"	00-856-5685	Connector
5935-860-3375	"	00-860-3375	Connector Contact Assembly
5935-878-5348	"	00-878-5348	"
5935-878-5757	"	00-878-5757	Plug
5935-892-9040	"	00-892-9040	Electric Wiring
5935-892-6998	"	00-892-6998	Receptacle
5935-896-6357	"	00-896-6357	Plug
5940-051-7284	5940	00-051-7284	Capacitor Strap
5940-188-2219	"	00-188-2219	Clip
5940-615-1935	"	00-615-1935	Terminal Stud
5940-812-1316	"	00-812-1316	Post Terminal No. 6
5940-824-2302	"	00-824-2302	Thermistor Washer
5940-889-4844	"	00-889-4844	Board Component No. 1
5945-257-7853	"	00-257-7853	Relay Armature
5945-259-5501	"	00-259-5501	" "
5945-283-6541	"	00-283-6541	" "
5945-366-7467	"	00-366-7467	Contact
5945-474-4125	"	00-474-4125	"
5945-483-8999	"	00-483-8999	Relay
5945-487-7966	"	00-487-7966	"
5945-547-9729	"	00-547-9729	Coil
5945-549-9684	"	00-549-9684	Relay
5945-557-2742	"	00-557-2742	"
5945-571-5779	"	00-571-5779	"
5945-660-9315	"	00-660-9315	"
5945-718-6862	"	00-718-6862	Solenoid
5945-752-0281	"	00-752-0281	Relay
5945-768-2781	"	00-768-2781	Solenoid
5945-850-7325	"	00-850-7325	Relay Armature
5950-230-6207	5950	00-230-6207	Transformer
5950-331-0624	"	00-331-0624	Coil

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
5950-487-7911	5950	00-487-7911	Reactor
5950-487-7915	"	00-487-7915	Transformer
5950-532-6909	"	00-532-6909	"
5950-581-5595	"	00-581-5595	"
5950-608-6190	"	00-608-6190	"
5950-648-6737	"	00-648-6737	"
5950-648-6842	"	00-648-6842	Coil
5950-649-8326	"	00-649-8326	"
5950-649-8327	"	00-649-8327	"
5955-019-6234	5999	00-019-6234	Printed Circuit Board
5960-620-6388	5960	00-620-6388	Klystron Assembly
5960-633-0481	"	00-633-0481	Shield
5960-633-0482	"	00-633-0482	Retainer
5960-822-2156	"	00-822-2156	Electron Tube Shield
5970-828-1446	5970	00-828-1446	Transistor Base Insulator
5970-828-2353	"	00-828-2353	Insulator Washer
5985-090-0013	5985	00-090-0013	Terminal Coil
5985-296-2299	"	00-296-2299	Switch, R.F.
5999-019-6229	5999	00-019-6229	Printed Circuit Board
5999-019-6232	"	00-019-6232	" " "
5999-019-6236	"	00-019-6236	" " "
5999-019-6237	"	00-019-6237	" " "
5999-019-6251	"	00-019-6251	" " "
5999-019-6253	"	00-019-6253	" " "
5999-019-6257	"	00-019-6257	" " "
5999-019-6258	"	00-019-6258	" " "
5999-019-6288	"	00-019-6288	" " "
5999-019-6289	"	00-019-6289	" " "
5999-387-8565	"	00-387-8565	Gasket
6105-031-1682	"	00-031-1682	Clamp
6145-161-0909	"	00-161-0909	Cable

<u>Old Identification No.</u>	<u>New Identification No.</u>		
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
6145-184-1112	6145	00-184-1112	Cable
6145-260-8795	"	00-260-8795	"
6145-643-0647	"	00-643-0647	"
6145-643-2175	"	00-643-2175	"
6240-057-2887	6240	00-057-2887	Lamp
6240-155-8706	"	00-155-8706	"
6240-295-1368	"	00-295-1368	"
6625-060-2880	6625	00-060-2880	Meter
6625-061-3602	"	00-061-3602	"
6625-530-3771	"	00-530-3771	Radar Test Set
6625-729-4133	"	00-729-4133	Ammeter
6660-341-1280	6660	00-341-1280	Bearing
6680-805-6232	6680	00-805-6232	Straight Shaft MC.
6680-874-5475	"	00-874-5475	Wheel Counter No. 5
6685-359-5558	6685	00-359-5558	Gauge
6685-443-3165	"	00-443-3165	Strap Sealing
6710-291-8800	6710	00-291-8800	Spring

APPENDIX "B"

<u>Old Identification No.</u>		<u>Group Class Catalogue No.</u>	<u>New Identification No.</u>	<u>Item Name</u>
L10381	5930	00-369-8551		Switch
L10383	6625	00-L10383		Blade
L10412	5935	00-674-6529		Adaptor
L15169	5995	00-L15169		Cable
L15182	5950	00-L15182		Coil
L15390	6625	00-L15390		Gear
L15394	6625	00-L15394		Shaft
L15397	6625	00-L15397		Wrench
L15398	6625	00-L15398		"
L15399	6625	00-15399		"
L15404	4140	00-585-7226		Mounting
L15406	6625	00-L15406		Pin
L15419	5935	00-L15419		Connector
L22271	6625	00-L22271		Contact
L22272	6625	00-L22272		"
L22274	6625	00-L22274		Core
L22897	5920	00-L22897		Fuseholder
L23776	5120	00-224-2504		Gasket
L23779	5120	00-242-7410		"
L23780	6625	00-L23780		"
L23781	6625	00-L23781		"
L23782	6625	00-L23782		Gasket Hazeltine
L24565	6625	00-L24565		Glass Window
L29032	5841	00-L29032		Serve Unit Test Set
L29033	5841	00-L29033		Gear & Ring Pliers
L29035	"	00-L29035		Puller Clock Hand
L29049	"	00-L29049		Serve Indicator
L29050	"	00-L29050		Spring Contact
L29051	"	00-L29051		Resistor Cord
L29052	"	00-L29052		Spring Brush
L29053	"	00-L29053		" Contact

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L29054	6625	00-735-9647		Circuit Board Test Set
L29055	5841			Test Bench Harness
L29056	5120	00-767-9113		Circuit Board
L29057	5841	00-L29057		Support ASSEMBLY
L29058	"	00-L29058		Buckle Assembly
L29059	"	00-L29059		Strip "
L29670	"	00-785-1937		Receiver Transmitter
L29671	"	00-785-1935		Power Supply Signal Data Converter
L29672	"	00-612-6988		Directional Velocity Indicator
L31174	6625	00-L31174		Portable Potentiometer
L31205	5915	00-376-9022		Suppressor
L31205	5950	00-280-4219		Coil
L31211	5935	00-258-8994		Plug
L31213	6625	00-L31213		Probe
L31242	5895	00-808-9084		Transmitter
L31243	"	00-808-9088		Coder
L31244	"	00-807-4094		Control
L31245	"	00-L31245		Case
L31246	"	00-180-8053		Relay
L31257	6625	00-L31257		Signal Generator
L31258	"	00-L31258		Wattmeter Model 43 - Thru-line
L32345	5841	00-L32345		6 cm. Broad. Band Absorber
L32346	5935	00-L32346		Connector
L33130	"	00-L33130		Receptacle
L33133	"	00-L33133		Connector
L33145	6625	00-L33145		Test Stand
L33147	5935	00-L33147		Plug, Shorting
L33148	"	00-L33148		Adaptor
L33150	6625	00-373-3163		Test Stand
L33151	"	00-152-7680		Test Set
L33154	5995	00-L33154		Power Cable

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L33155	5995	00-L33155		Video Cable
L33156	"	00-L33156		R.f. Cable
L33159	5920	00-L33159		Fuse Holder
L33190	5935	00-L33190		Connector
L42532	5995	00-L42532		Cable Assembly
L42533	5935	00-L42533		Shell
L42535	5840	00-L42535		Spring
L42538	5935	00-L42538		Socket Tube
L42543	6625	00-L42543		Test Harness
L42544	"	00-L42544		Maintenance Kit
L42545	"	00-L42545		Function Test Set
L45832	"	00-735-9645		Test Adaptor
L45833	"	00-735-9564		System Test Set
L45834	5841	00-735-9644		Elect. Dummy Load
L45835	6625	00-735-9646		Terminal Strip Box
L45864	5995	00-L45864		Connector
L45865	"	00-45865		Power Connector
L45897	"	00-L45897		Cable Assembly
L49061	5905	00-583-8793		Rectifier
L49607	5821	00-L49607		Transreceiver
L49608	"	00-L49608		Shock Mount
L49609	"	00-49609		Control Unit
L49610	"	00-L49610		Antenna
L49611	"	00-L49611		Shockmount
L49616	6625	00-L49616		Ramp Test Set
L53000	5821	00-845-8915		Amplifier AM/Audio
L53001	"	00-845-8990		" Power
L53002	"	00-L53002		" Servo
L53003	"	00-845-8334		" "
L53004	"	00-560-5871		Arm RF. Contact
L53005	"	00-L53005		" Lever
L53006	5905	00-985-5925		Attenuator

APPENDIX "B"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53007	5821	00-592-1929	Yoke Bar
L53008	5950	00-056-3746	Bar Coil No.1
L53009	"	00-056-3747	" " No.2
L53010	"	00-056-3745	" " No.3
L53011	5821	00-L53011	Base
L53012	5960	00-060-0706	Base Transistor
L53013	3120	00-865-8085	Bearing
L53014	5821	00-L53014	Bearing
L53015	"	00-L53015	"
L53016	"	00-L53016	"
L53017	"	00-L53017	"
L53018	3110	00-447-4775	"
L53019	3120	00-819-5532	Bearing
L53020	3110	00-807-1711	"
L53021	3110	00-850-4289	Bearing
L53022	3120	00-866-5499	"
L53023	"	00-061-8222	"
L53024	"	00-084-3422	"
L53025	5820	00-056-3700	" Roller Coil
L53026	5821	00-L53026	Block
L53027	5821	00-L53027	Block Screw Mounting
L53028	4140	00-855-6560	Blower Assembly
L53029	5821	00-L53029	Board
L53030	5999	00-019-6254	" No.1
L53031	"	00-019-6255	" No.2
L53032	"	00-019-6256	" No.3
L53033	5821	00-L53033	" No.4
L53034	"	00-813-6876	Board I.F. Signal Lamp
L53035	"	00-828-0840	Board Assembly R.F. osc
L53036	"	00-L53036	" " Transistor
L53037	"	00-L53037	" A.D.G.
L53038	"	00-L53038	" Bias.
L53039	"	00-L5039	" "
L53040	5999	00-816-9752	" Capacitor

APPENDIX "B"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53041	5821	00-L53041	Board Cord
L53042	"	00-L53042	" Circuit No.1
L53043	"	00-453043	" " No.5
L53044	5999	00-019-6257	" " Printed
L53045	5821	00-L53045	" " No.4
L53046	"	00-L53046	" " No.6
L53047	"	00-L53047	" " No.7
L53048	"	00-L53048	" " No.8
L53049	"	00-815-3656	" Discr.
L53050	"	00-L53050	" Mounting
L53051	"	00-L53051	" Circuit Printed
L53052	"	00-L53052	" " "
L53053	"	00-L53053	" " "
L53054	"	00-L53054	" " "
L53055	5999	00-019-6288	" " "
L53056	"	00-019-6287	" " "
L53057	"	00-019-6289	" " "
L53058	"	00-019-6234	" " "
L53059	"	00-019-6236	" " "
L53060	"	00-019-6237	" " "
L53061	"	00-019-6251	" " " No.1
L53062	"	00-019-6230	" " "
L53063	"	00-019-6232	" " " No.2
L53064	"	00-019-6253	" " " No.3
L53065	"	00-019-6229	" " " No.3
L53066	5821	00-801-9337	" Coil
L53067	5950	00-889-4843	Board Component No.2
L53068	5940	00-889-4844	" " No.1
L53069	5821	00-L53069	" " No.5
L53070	"	00-L53070	" Printed
L53071	"	00-L53071	" Rect. No.2
L53072	"	00-L53072	" Rect. No.1
L53073	"	00-L53073	" Resistor

APPENDIX "B"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53074	5821	00-L53074	Board Terminal
L53075	"	00-L53075	" "
L53076	"	00-L53076	" "
L53077	"	00-L53077	" "
L53078	"	00-L53078	" "
L53079	5940	00-186-2530	" "
L53080	5821	00-L53080	" "
L53081	"	00-L53081	" "
L53082	"	00-L53082	" "
L53083	"	00-L53083	" "
L53084	"	00-L53084	" "
L53085	"	00-L53085	" " Front Relay
L53086	"	00-L53086	Bracket
L53087	"	00-019-6298	" Shock Mounting
L53088	"	00-L53088	Board Circuit No.5
L53089	"	00-L53089	Bumper Right Power AMP
L53090	"	00-L53090	" Left " "
L53091	"	00-L53091	" Rubber
L53092	5340	00-707-5541	Bushing
L53093	5821	00-L53093	"
L53094	5995	00-985-7888	Cable Coaxial
L53095	6220	00-813-2725	C.A.P.
L53096	5935	00-560-5877	"
L53097	5826	00-828-8282	" Transistor Base
L53098	5950	00-228-8640	Choke
L53099	"	00-647-9409	"
L53100	"	00-647-9291	"
L53101	"	00-647-8407	"
L53102	"	00-645-0358	"
L53103	"	00-309-4560	"
L53104	"	00-706-9463	"
L53105	"	00-581-9784	"
L53106	"	00-821-9497	"

APPENDIX "B"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53107	5950	00-713-6806	Choke
L53108	"	00-594-1217	"
L53109	"	00-061-2192	"
L53110	"	00-061-2194	"
L53111	"	00-061-2195	"
L53112	"	00-812-4443	"
L53113	"	00-060-6389	"
L53114	"	00-060-8656	"
L53115	"	00-774-5201	"
L53116	"	00-L53116	"
L53117	"	00-L53117	"
L53118	"	00-810-5470	"
L53119	"	00-L53119	"
L53120	"	00-086-8730	"
L53121	"	00-812-4431	"
L53122	"	00-L53122	"
L53123	"	00-060-9142	"
L53124	"	00-L53124	"
L53125	"	00-812-4422	"
L53126	"	00-842-2247	"
L53127	"	00-L53127	"
L53128	"	00-060-9188	"
L53129	"	00-796-3120	"
L53130	"	00-807-3425	"
L53131	"	00-080-9882	"
L53132	"	00-809-0744	"
L53133	"	00-L53133	"
L53134	"	00-809-4535	"
L53135	"	00-L53135	" R.F.
L53136	"	00-L53136	" "
L53137	"	00-L53137	" "
L53138	5945	00-201-4332	Chopper
L53139	"	00-086-8726	"

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L53140	5821	00-153140	Clamp
L53141	5340	00-200-2755	"
L53142	5821	00-153142	"
L53143	5340	00-598-0296	"
L53144	5821	00-623-3161	"
L53145	5821	00-153145	"
L53146	"	00-153146	"
L53147	"	00-153147	"
L53148	"	00-153148	"
L53149	"	00-396-3116	"
L53150	5310	00-674-7629	" Cable
L53151	5950	00-153151	Coil
L53152	"	00-646-4998	"
L53153	"	00-041-2143	"
L53154	"	00-645-4253	"
L53155	"	00-801-1525	"
L53156	"	00-645-6060	"
L53157	"	00-837-8157	"
L53158	"	00-060-0754	"
L53159	"	00-060-1392	"
L53160	"	00-060-8094	"
L53161	"	00-020-6215	"
L53162	"	00-153162	"
L53163	"	00-153163	"
L53164	"	00-153164	"
L53165	"	00-153165	"
L53166	"	00-153166	"
L53167	"	00-153167	"
L53168	"	00-153168	"
L53169	"	00-153169	"
L53170	"	00-153170	"
L53171	"	00-153171	"
L53172	"	00-153172	"

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L53173	5950	00-153173	Coil
L53174	"	00-153174	"
L53175	"	00-648-2294	"
L53176	"	00-153176	"
L53177	"	00-153177	"
L53178	"	00-153178	"
L53179	"	00-599-9304	"
L53180	"	00-858-1213	"
L53181	"	00-858-1212	"
L53182	"	00-811-9476	"
L53183	"	00-060-6833	" Assy.
L53184	"	00-060-9746	" "
L53185	"	00-153185	" "
L53186	"	00-060-8091	" "
L53187	"	00-828-8344	" Load
L53188	"	00-828-5333	Coil Coupling
L53189	"	00-153189	" "
L53190	"	00-153190	" "
L53191	"	00-060-1794	" Low Frequency
L53192	"	00-153192	" No.2.
L53193	"	00-819-1041	" R.F.
L53194	"	00-813-2523	" "
L53195	"	00-060-3087	" "
L53196	"	00-858-1211	" "
L53197	"	00-818-3507	" "
L53198	"	00-818-3736	" Coupling
L53199	"	00-818-3509	"
L53200	"	00-153200	" Plate
L53201	"	00-809-4004	" Shunt
L53202	"	00-153202	" Trans.
L53203	"	00-153203	" Trim.
L53204	5955	00-666-1334	Connector

<u>Old Identification No.</u>		<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53205	5935	00-602-8813	Connector
L53206	"	00-549-1699	"
L53207	"	00-843-9508	"
L53208	"	00-729-7300	"
L53209	"	00-729-7305	"
L53210	"	00-681-6685	"
L53211	"	00-L53211	"
L53212	"	00-810-9409	"
L53213	"	00-280-2264	"
L53214	"	00-808-2356	"
L53215	"	00-822-1772	"
L53216	"	00-L53216	"
L53217	"	00-577-2220	"
L53218	"	00-577-8715	"
L53219	"	00-583-8049	"
L53220	"	00-660-6005	"
L53221	"	00-080-6959	"
L53222	"	00-L53222	"
L53223	"	00-059-9987	"
L53224	"	00-059-9988	"
L53225	"	00-811-1381	"
L53226	"	00-685-9959	"
L53227	"	00-878-5348	"
L53228	"	00-259-9186	"
L53229	"	00-149-3483	" UG58 A/U
L53230	5995	00-067-5693	" ASSY.
L53231	"	00-581-6757	" D.C. Out Put
L53232	5821	00-081-5971	Pin Connector
L53233	"	00-L53233	Contact
L53234	"	00-818-3805	"
L53235	"	00-828-5119	"
L53236	5995	00-067-5693	" Assy. Elec. No.1
L53237	5821	00-L53237	" " " No.2

<u>Old Identification No.</u>		<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53238	5821	00-L53238	Contact Assy. Elec.
L53239	"	00-021-2118	" Coax
L53240	"	00-885-6508	" "
L53241	"	00-553-3148	" Terminal
L53242	5950	00-L53242	Core
L53243	"	00-828-7591	"
L53244	"	00-L53244	" Transformer
L53245	5820	00-076-3518	Deflector Air
L53246	5930	00-820-5450	Detect Switch
L53247	5821	00-632-9412	Disc. Soldered
L53226	5935	00-685-9959	Connector
L53227	"	00-878-5348	"
L53228	"	00-259-9186	"
L53229	"	00-149-3483	" UG58 A/U
L53230	5995	00-067-5693	" Assy.
L53231	5935	00-581-6757	" D.C. Out Put
L53232	5821	00-081-5971	Pin Connector
L53233	"	00-L53233	Contact
L53234	"	00-818-3805	"
L53235	"	00-828-5119	"
L53236	5995	00-067-5693	Contact Assy. Elec.No.1
L53237	5821	00-L53237	Contact Assy. Elec.No.2
L53238	"	00-L53238	" " "
L53239	"	00-021-2118	" Coax
L53240	"	00-885-6508	" "
L53241	"	00-553-3148	" Terminal
L53242	5950	00-L53242	Core
L53243	"	00-828-7591	"
L53244	"	00-L53244	" Transformer
L53245	5820	00-076-3518	Deflector Air
L53246	5930	00-820-5450	Detect Switch
L53247	5821	00-632-9412	Disc Soldered

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53248	5821	00-632-9411	Discriminator
L53249	"	00-845-7842	Frequency Divider
L53250	3020	00-881-2191	Dial Drive Gear
L53251	"	00-881-5129	" " "
L53252	5821	00-L53252	Exchange Heat
L53253	4310	00-019-8516	Filter
L53254	5915	00-L53254	"
L53255	"	00-849-5825	"
L53256	"	00-546-0451	"
L53257	"	00-840-0599	"
L53258	"	00-846-0449	" Band Pass
L53259	5950	00-560-5876	Form Coil
L53260	5821	00-806-8535	Gasket
L53261	5820	00-952-8653	Gasket Coil Form No.1
L53262	5820	00-952-8652	Gasket Coil Form No.2
L53263	5821	00-591-9629	Gear
L53264	"	00-287-7580	"
L53265	"	00-813-7181	"
L53266	"	00-L53266	"
L53267	"	00-L53267	"
L53268	"	00-560-5873	"
L53269	"	00-813-7179	"
L53270	"	00-591-9630	"
L53271	"	00-560-5874	"
L53272	"	00-591-9628	"
L53273	"	00-L53273	"
L53274	"	00-815-8899	"
L53275	"	00-L53275	"
L53276	"	00-560-5863	"
L53277	"	00-560-5865	"
L53278	"	00-L53278	"
L53279	"	00-610-5174	"
L53280	3020	00-882-4926	Gear Helical
L53281	5821	00-541-0993	" Idler

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53282	5821	00-591-9627	Gear Helical
L53283	"	00-L53283	" Rolled
L53284	"	00-560-5961	" Pressed
L53285	"	00-560-5981	" "
L53286	"	00-L53286	" Spur
L53287	"	00-529-0222	" "
L53288	3020	00-882-4927	" "
L53289	"	00-883-3687	" "
L53290	"	00-882-4928	" "
L53291	5821	00-816-9740	" "
L53292	"	00-801-9325	" "
L53293	"	00-L53293	" "
L53294	"	00-816-9741	" "
L53295	"	00-816-9759	" "
L53296	5325	00-515-7543	Grommet
L53297	"	00-545-4662	"
L53298	"	00-262-7822	"
L53299	"	00-L53299	"
L53300	"	00-616-5961	"
L53301	"	00-249-6340	"
L53302	"	00-L53302	"
L53303	"	00-L53303	"
L53304	"	00-L53304	"
L53306	5821	00-L53306	Wood
L53307	5935	00-828-1342	"
L53308	"	00-539-5928	" Connector
L53309	"	00-201-7456	" Rt. Angle
L53310	5821	00-L53310	" Tee.
L53311	"	00-346-4705	Inductor Re. Var.
L53312	5935	00-809-2115	Insert Co-Ax.
L53313	5970	00-L53313	Insulator
L53314	"	00-L53314	" Stand Off
L53315	"	00-L53315	Washer Insulator

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53316	5970	00-153316		Insulator Terminal
L53317	"	00-153317		" Bushing
L53318	"	00-828-1446		" Disc.
L53319	"	00-153319		" Bushing
L53320	"	00-153320		Isolator (Front)
L53321	"	00-153321		" (Rear)
L53322	5935	00-833-2004		Jack
L53323	"	00-061-7744		"
L53324	"	00-502-7660		Connector
L53325	5325	00-276-4993		Grommet
L53326	"	00-276-4221		"
L53327	"	00-276-6057		"
L53328	5935	00-729-5251		Jack Brown
L53329	"	00-806-2638		" "
L53330	"	00-683-7657		" Blue
L53331	"	00-812-6413		Jack
L53332	"	00-153332		"
L53333	"	00-812-7323		"
L53334	"	00-081-6290		"
L53335	"	00-615-6784		" Orange
L53336	"	00-680-9970		" Red
L53337	"	00-811-3234		" "
L53338	"	00-283-1269		" Phone
L53339	5935	00-153339		Jack Terminal
L53340	"	00-683-7648		" Tip
L53341	"	00-829-3154		" "
L53342	"	00-153342		" "
L53343	"	00-683-7649		" Yellow
L53344	5355	00-865-3144		Knob Counter
L53345	"	00-803-1601		" Function Switch
L53347	"	00-828-5433		" R.F. Gain
L53348	"	00-538-6979		" Wing

<u>Old Identification No.</u>	<u>Group Class</u>	<u>New Identification No.</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53349	6240	00-153349		Lamp
L53350	5940	00-153350		Lag Terminal No.2
L53351	"	00-685-8974		" " No.8
L53352	6625	00-025-7110		Meter
L53353	"	00-061-3602		"
L53354	5340	00-153354		Mount Vibration
L53355	"	00-153355		" "
L53356	6105	00-556-8888		Motor
L53357	"	00-153357		"
L53358	"	00-153358		"
L53359	5821	00-153359		" Assy.
L53360	6105	00-849-5458		" D.C.
L53361	5950	00-387-0489		Coil Motor R.F.
L53362	6105	00-849-7817		Motor Servo
L53363	5310	00-176-8095		Nut
L53364	"	00-266-0516		"
L53365	"	00-167-1376		"
L53366	"	00-153366		"
L53367	"	00-153367		"
L53368	"	00-153368		"
L53369	"	00-153369		"
L53370	"	00-153370		"
L53371	"	00-153371		"
L53372	"	00-153372		"
L53373	"	00-680-6137		"
L53374	"	00-153374		"
L53375	"	00-153375		"
L53376	"	00-153376		"
L53377	"	00-153377		Nut
L53378	"	00-153378		"
L53379	"	00-153379		"
L53380	"	00-153380		"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53381	5821	00-847-6424	Oscillator
L53382	"	00-L53382	Pad
L53383	"	00-L53383	"
L53384	"	00-L53384	"
L53385	"	00-L53385	"
L53386	"	00-375-4363	Pick Up Red
L53387	"	00-510-4819	" " "
L53388	"	00-L53388	Pin
L53389	"	00-L53389	"
L53390	"	00-L53390	"
L53391	"	00-L53391	"
L53392	6610	00-416-9129	"
L53393	5821	00-L53393	"
L53394	"	00-L53394	Plate
L53395	"	00-801-9334	Insulator Top
L53396	"	00-816-8736	" Bottom
L53397	5935	00-L53397	Plug
L53398	5821	00-L53398	Post
L53399	"	00-L53399	"
L53400	"	00-L53400	"
L53401	5820	00-086-8724	"
L53402	5821	00-L53402	"
L53403	"	00-L53403	"
L53404	"	00-L53404	"
L53405	"	00-L53405	"
L53406	"	00-L53406	"
L53407	"	00-L53407	"
L53408	"	00-L53408	"
L53409	"	00-L53409	"
L53410	"	00-L53410	"
L53411	"	00-L53411	"
L53412	"	00-L53412	"
L53413	"	00-L53413	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53414	5821	00-L53414	Post
L53415	5821	00-L53415	"
L53416	"	00-L53416	"
L53417	"	00-L53417	"
L53418	"	00-L53418	"
L53419	"	00-L53419	"
L53420	"	00-L53420	"
L53421	"	00-L53421	"
L53422	"	00-L53422	"
L53423	"	00-L53423	"
L53424	5940	00-547-9733	"
L53425	5821	00-L53425	"
L53426	"	00-L53426	"
L53427	"	00-L53427	"
L53428	5905	00-959-5370	Potentiometer
L53429	5821	00-L53429	Power Supply L.V.
L53430	"	00-L53430	" " H.V.
L53431	"	00-019-6290	Puller Module
L53432	"	00-L53432	Pulley
L53433	"	00-L53433	"
L53434	5950	00-L53434	Regator
L53435	5935	00-237-6568	Receptacle
L53436	"	00-534-7891	"
L53437	"	00-310-4275	"
L53438	5945	00-L53438	Relay
L53439	"	00-615-3211	"
L53440	"	00-810-5481	"
L53441	"	00-812-2436	"
L53442	"	00-850-8422	"
L53443	"	00-811-2821	"
L53444	"	00-L53444	"
L53445	"	00-809-7163	"
L53446	"	00-L53446	"
L53447	"	00-L53447	"

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>	
L53448	5945	00-578-8284	Relay
L53449	"	00-L53449	"
L53450	"	00-660-6415	"
L53451	"	00-883-2965	"
L53452	"	00-L53452	"
L53453	"	00-851-8889	"
L53454	"	00-810-5982	"
L53455	"	00-810-5482	"
L53456	"	00-828-8889	"
L53457	"	00-850-6533	"
L53458	"	00-615-2289	"
L53459	"	00-L53459	"
L53460	"	00-L53460	" Assy.
L53461	5821	00-610-5178	"
L53462	5340	00-510-9013	Retainer Front
L53463	5821	00-L53463	Ribbon Silver
L53464	"	00-L53464	Ring Mounting
L53465	"	00-L53465	" Retaining
L53466	5340	00-618-4863	" "
L53467	5821	00-806-8526	Rod Adjustment
L53468	"	00-328-9944	" Pivot
L53469	5340	00-991-8669	Spring Leaf Roller
L53470	5820	00-991-7114	Rotor Assy.
L53471	5821	00-807-4286	Screen Exhaust
L53472	5305	00-L53472	Screw
L53473	"	00-059-7188	"
L53474	"	00-L53474	"
L53475	"	00-L53475	"
L53476	"	00-L53476	"
L53477	"	00-059-7176	"
L53478	"	00-856-6661	"
L53479	"	00-L53479	"
L53480	"	00-L53480	"

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>	
L53481	5305	00-L53481	Screw
L53482	"	00-L53452	"
L53483	"	00-059-8437	"
L53484	"	00-L53484	"
L53485	"	00-680-9158	"
L53486	"	00-680-9159	"
L53487	"	00-L53487	"
L53488	"	00-059-8450	"
L53489	"	00-L53489	"
L53490	"	00-808-8034	"
L53491	"	00-530-9492	"
L53492	"	00-#05-2538	"
L53493	5395	00-305-2672	Thumb Screw Assy.
L53494	5821	00-815-8908	Screw Mounting
L53495	"	00-L53495	"
L53496	"	00-L53496	Set Screw
L53497	"	00-L53497	" "
L53498	"	00-L53498	" "
L53499	5305	00-705-9528	Screw Special
L53500	5955	00-L53500	Plug Assy.
L53501	5841	00-630-5696	Panel
L53502	5821	00-L53502	Shaft
L53503	5820	00-807-4371	"
L53504	5821	00-L53504	"
L53505	"	00-L53505	"
L53506	"	00-801-9336	"
L53507	"	00-816-9765	"
L53508	"	00-L53508	" Assy.
L53509	"	00-575-4738	" Contact
L53510	3010	00-066-3985	" Coupler
L53511	5895	00-564-6048	Shaft Helical Gear Left
L53512	5895	00-562-7189	" " Gear Right
L53513	5315	00-854-8999	" Left Shouldered

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53514	5315	00-854-9000	Shaft Right Shouldered
L53515	6680	00-805-6232	" Straight "
L53516	5930	00-053-3737	" Switch
L53517	5315	00-889-7577	" Transfer Pinion
L53518	5935	00-L53518	Shell Insert
L53519	5821	00-244-0149	" Switch
L53520	5310	00-811-7462	Shim
L53521	5821	00-579-8007	"
L53522	"	00-L53522	"
L53523	5310	00-584-9760	Sleeve
L53524	5821	00-L53524	" Spacer
L53525	5340	00-729-6819	" Spacing
L53526	5935	00-257-7159	Socket
L53527	"	00-501-5747	"
L53528	"	00-577-0396	"
L53529	"	00-665-4890	"
L53530	"	00-503-9458	"
L53531	"	00-703-1980	"
L53532	"	00-703-2009	"
L53533	5821	00-801-9332	" Tube
L53534	5340	00-590-8265	Spacer
L53535	5821	00-L53535	"
L53536	"	00-L53536	"
L53537	"	00-L53537	"
L53538	"	00-L53538	Spring
L53539	"	00-550-8660	"
L53540	"	00-L53540	"
L53541	"	00-L53541	"
L53542	"	00-L53542	" Assembly
L53543	5325	00-282-0629	" "
L53544	5821	00-589-5201	" CAM.
L53545	"	00-L53545	" Contact No.2
L53546	"	00-L53546	" " No.3

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53547	5821	00-L53547	Spring Contact Soldered
L53548	"	00-L53548	" Holdown
L53549	"	00-090-4035	" Locking
L53550	"	00-751-9473	Stabiliser M.C.
L53551	"	00-751-9470	" " "
L53552	"	00-L53552	Strap Ground
L53553	6150	00-985-7591	" Hook up
L53554	"	00-985-7592	" " No.2
L53555	5995	00-703-6221	" " No.3
L53556	6150	00-985-7594	" " No.5
L53557	"	00-985-7597	" " No.6
L53558	5821	00-818-3815	Support Coax.
L53559	5915	00-828-4814	Suppressor Parasitic
L53560	"	00-828-4815	" "
L53561	"	00-828-4813	" "
L53562	5930	00-L53562	Switch
L53563	"	00-L53563	"
L53564	"	00-L53564	"
L53565	"	00-L53565	"
L53566	"	00-L53566	"
L53567	"	00-L53567	"
L53568	"	00-L53568	"
L53569	"	00-L53569	"
L53570	"	00-L53570	"
L53571	"	00-L53571	"
L53572	"	00-L53572	"
L53573	"	00-L53573	"
L53574	"	00-L53574	"
L53575	"	00-L53575	"
L53576	"	00-L53576	"
L53577	"	00-L53577	"
L53578	"	00-083-6161	"
L53579	"	00-083-6139	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53580	5930	00-083-6160	Switch
L53581	"	00-034-2322	"
L53582	"	00-083-6163	"
L53583	"	00-020-9554	"
L53584	"	00-L53584	"
L53585	5821	00-L53585	Terminal
L53586	5940	00-259-8457	"
L53587	"	00-845-9918	"
L53588	"	00-L53588	" Antenna
L53589	5821	00-258-1805	" "
L53590	5985	00-090-0013	" Coil
L53591	5940	00-061-0050	" Post No.4
L53592	"	00-812-1316	" " No.6
L53593	5985	00-258-6634	Terminal Receiver
L53594	5935	00-259-7379	" "
L53595	5905	00-865-8081	Thermistor
L53596	"	00-080-6833	"
L53597	5930	00-557-6151	Thermostat
L53598	5821	00-L53598	Torroid
L53599	5950	00-845-8973	Transformer
L53600	"	00-881-1547	"
L53601	"	00-881-1548	"
L53602	"	00-061-2235	"
L53603	"	00-850-5485	"
L53604	"	00-850-5480	"
L53605	"	00-L53605	"
L53606	"	00-852-7428	"
L53607	"	00-809-0743	"
L53608	"	00-811-0525	"
L53609	"	00-L53609	"
L53610	"	00-090-0211	"
L53611	"	00-852-5529	"
L53612	"	00-968-4569	"

<u>Old Identification No.</u>	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53613	5950	00-858-5262	Transformer
L53614	"	00-850-7811	"
L53615	"	00-504-7757	"
L53616	"	00-852-2395	"
L53617	"	00-850-7810	"
L53618	"	00-L53618	"
L53619	"	00-L53619	" GWS RF
L53620	"	00-532-6909	"
L53621	"	00-846-0601	"
L53622	"	00-847-2303	" R.F.
L53623	"	00-L53623	" "
L53624	"	00-L53624	" "
L53625	5821	00-L53625	Translator H.F.
L53626	"	00-751-9471	" I.F.
L53627	5950	00-060-8663	"
L53628	5310	00-L53628	Washer
L53629	5935	00-201-9490	"
L53630	5310	00-632-6721	"
L53631	"	00-L53631	"
L53632	"	00-680-5500	"
L53633	"	00-L53633	"
L53634	"	00-262-3594	"
L53635	"	00-058-3829	"
L53636	"	00-042-9609	"
L53637	"	00-L53637	"
L53638	"	00-680-6743	"
L53639	"	00-L53639	"
L53640	"	00-L53640	"
L53641	"	00-685-6781	"
L53642	"	00-596-8646	"
L53643	"	00-877-9669	"
L53644	"	00-686-8948	"
L53645	5820	00-812-1970	"

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L53646	5310	00-L53646	Washer
L53647	"	00-L53647	"
L53648	"	00-L53648	"
L53649	"	00-L53649	"
L53650	"	00-L53650	"
L53651	"	00-L53651	"
L53652	5330	00-851-5949	"
L53653	5310	00-712-8134	"
L53654	"	00-L53654	"
L53655	5821	00-L53655	" Clutch
L53656	5330	00-542-1977	" Copper
L53657	5310	00-680-9330	" Plat
L53658	5330	00-246-7407	" "
L53659	"	00-246-7394	" "
L53660	"	00-641-5852	" "
L53661	5310	00-L53661	"
L53662	"	00-675-2525	"
L53663	5970	00-828-2353	" Insulating
L53664	5330	00-542-1977	" Teflon
L53665	5940	00-824-2302	" Thermistor
L53666	6680	00-874-5473	Wheel Counter No.2
L53667	"	00-874-5474	" " No.4
L53668	"	00-874-5475	" " No.5
L53669	"	00-L53669	" " No.13
L53670	5821	00-510-4820	Yoke Rivetted
L53671	5935	00-615-9130	Jack Green
L53672	"	00-192-4729	" Mic
L53674	5821	00-L53674	Shaft
L53680	5935	00-L53680	Plug Assembly P501
L53681	5821	00-L53681	Support
L53682	5935	00-L53682	Plug Channel
L53683	5841	00-630-9387	Panel A401
L53684	5841	00-630-9386	Panel A402

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L53685	5935	00-L53685	Plug Button
L53688	6240	00-L53688	Cover Lamp
L53690	5970	00-L53690	Insulator Terminal
L53691	"	00-L53691	"
L53693	5841	00-L53693	Ring Retaining
L53694	"	00-L53694	Rod Motor Brush
L53695	5305	00-207-3197	Screw
L53696	"	00-249-0579	"
L53697	5841	00-L53697	Shaft Pinion
L53698	5930	00-L53698	Spring Micro Switch
L53699	5995	00-L53699	Cable Assembly
L53700	5340	00-290-0775	Clamp Cable
L53702	5841	00-L53702	Panel A2002
L53703	"	00-L53703	" A2001
L53705	6145	00-643-0647	Cable Special Raytheon
L53706	5841	00-L53706	Grommet Strip
L53707	"	00-L53707	Gasket
L53708	"	00-L53708	Harness Assembly Wiring Klystron
L53709	5995	00-798-2331	Cable Assembly
L53710	"	00-798-2332	" "
L53711	"	00-798-2333	" "
L53712	"	00-799-2068	" " R.F.
L53713	5995	00-798-2330	" "
L53714	5841	00-476-1497	Elbow Tube to Hose
L53715	"	00-L53715	Indicator Direction Velocity
L53716	"	00-L53716	Chassis Assembly Power Supply
L53718	5950	00-798-2329	Reactor 28 VDC
L53719	5841	00-L53719	Chassis Assembly Signal Data Converter Power Supply
L53720	5841	00-L53720	Lead Assembly Forward

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group</u>	<u>Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53721	5841	00-L53721	Lead Assembly Aft.
L53722	"	00-L53722	Circuit Assembly Secondary
L53723	"	00-L53725	" " Modulator
L53724	"	00-797-3954	Power Supply Assembly Low Voltage
L53725	"	00-L53725	Circuit Assembly Power Supply Low Voltage
L53726	"	00-795-2865	Circuit Assembly Power Supply Low Voltage
L53727	"	00-795-2867	Circuit Assembly Power Supply Low Voltage
L53728	"	00-L53728	Circuit Assembly Rectifier High Voltage
L53729	"	00-L53729	Gasket Circuit Board
L53730	"	00-L53730	Circuit Assembly Filter
L53731	"	00-L53731	Circuit Assembly Filter High Voltage
L53732	"	00-L53732	Circuit Assembly Regulator High Voltage
L53733	"	00-797-6187	Filament Supply Assembly High Voltage
L53734	"	00-L53734	Circuit Assembly Filament Supply
L53735	5950	795-7211	Transformer Reactor Assembly
L53736	"	795-7212	Inductor Filament
L53737	5841	00-L53737	Circuit Assembly Filament Supply
L53738	5935	00-617-6858	Connector Receptacle
L53739	5841	00-795-2622	Converter Assembly Doppler Signal
L53740	5841	00-L53740	Circuit Assembly Converter

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group</u>	<u>Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L53741	5841	00-795-5795	Circuit Assembly Secondary No.1
L53742	"	00-795-7007	Modulator Assembly
L53743	"	00-L53743	Circuit Assembly Modulator
L53744	"	00-795-5796	" " "
L53745	"	00-795-3822	" " "
L53746	"	00-L53746	" Primary
L53747	"	00-L53747	" Assembly Secondary
L53748	"	00-L53748	" Resolver Board
L53749	5950	00-830-2922	Transformer Audio
L53750	"	00-L53750	Transformer
L53751	5841	00-L53751	Circuit Divider High Voltage
L53752	5930	00-L53752	Switch Assembly
L53753	5930	00-L53753	" Rotary
L53754	"	00-L53754	" Assembly
L53755	"	00-L53755	" Rotary
L53756	"	00-L53756	" Assembly
L53757	5950	00-L53757	Transformer
L53758	"	00-831-0423	" Audio
L53759	5841	00-L53759	Circuit
L53760	"	00-L55760	"
L53761	"	00-L53761	"
L53762	"	00-L53762	" Secondary
L53763	"	00-L53763	"
L53764	5935	00-L53764	Socket
L53765	5930	00-L53765	Switch Assembly
L53766	"	00-L53766	" Rotary
L53767	"	00-L53767	" Assembly
L53768	"	00-L53768	" Rotary
L53769	5920	00-L53769	Fuse
L53770	6240	00-L53770	Lamp

<u>Old Identification No.</u>		<u>New Identification No.</u>	<u>Item Name</u>
<u>Group Class</u>		<u>Catalogue No.</u>	
L53771	6210	00-635-3354	Light Indicator
L53772	6625	00-L53772	Meter U.I.M.A.
L53773	5935	00-740-7909	Connector Plug
L53774	"	00-L53774	" "
L53775	"	00-L53775	" "
L53776	"	00-L53776	" "
L53777	"	00-L53777	" "
L53778	"	00-L53778	" "
L53779	"	00-824-9968	" "
L53780	"	00-818-9563	" "
L53781	"	00-876-5883	" "
L53782	"	00-L53782	" "
L53783	"	00-L53783	" "
L53784	"	00-685-9348	" "
L53785	"	00-L53785	" Receptacle
L53786	"	00-L53786	" "
L53787	"	00-810-9689	" "
L53788	"	00-L53788	" "
L53789	"	00-878-5885	" "
L53790	"	00-856-3307	" "
L53791	"	00-836-3528	" "
L53792	"	00-L53792	" "
L53793	"	00-L53793	" "
L53794	"	00-754-5617	" "
L53795	"	00-820-3326	" "
L53796	"	00-L53796	Jack Tip
L53797	6210	00-841-5498	Lamp Neon
L53798	5950	00-321-0115	Modulator Magnetic 4V 4000PS
L53799	5925	00-L53799	Jack Tip
L53800	5945	00-820-5724	Relay Armature
L53801	5930	00-L53801	Switch Rotary

<u>Old Identification No.</u>		<u>New Identification No.</u>	<u>Item Name</u>
<u>Group Class</u>		<u>Catalogue No.</u>	
L53802	5999	00-821-3590	Gasket Shield
L53803	5935	00-L53803	Socket
L53804	5930	00-L53804	Switch Rotary
L53805	"	00-885-6206	" "
L53806	"	00-L53806	" "
L53807	"	00-L53807	" "
L53808	5940	00-L53808	Terminal Lug
L53809	"	00-L53809	" "
L53810	"	00-L53810	" "
L53811	"	00-L53811	" Stud
L53812	"	00-501-5513	" "
L53813	6625	00-L53813	Meter 0.15V
L53814	5330	00-L53814	Packing with Retainer Compression Type
L53815	"	00-531-5278	Packing with Retainer Ring Flat
L53816	5920	00-280-5031	Fuse $\frac{1}{2}$ Amp
L53817	"	00-L53817	" 1 Amp
L53819	5935	00-L53819	Jack Phone
L53820	6240	00-L53820	Lamp
L53821	5841	00-L53821	Jack Binding
L53822	"	00-L53822	" "
L53823	5930	00-615-9376	Switch Toggle
L53824	"	00-655-1575	" "
L53825	"	00-L53825	" "
L53826	5940	00-L53826	Terminal Lug
L53827	"	00-L53827	" "
L53828	"	00-557-4398	" "
L53829	5941	00-L53829	Handle
L53830	"	00-L53830	Blade

Old Identification No.		New Identification No.	
Group Class	Catalogue No.	Item Name	
L53831	5941	00-L53831	Circuit Primary
L53849	5915	00-L53849	Filter
L53850	"	00-L53850	"
L53851	"	00-L53851	"
L53853	5910	00-L53853	Capacitor Clamp
L53854	5940	00-051-7284	" Strap
L53868	5841	00-L5386	Pen Guide
L53870	5950	00-L53870	Transformer Power
L53871	6625	00-060-2880	Meter
L53872	5935	00-L53872	Connector
L53873	5935	00-878-3573	"
L53874	"	00-L53874	"
L53875	"	00-821-3445	"
L53881	6625	00-L53881	Detector Mount Type 440A
L53883	"	00-L53883	Transfer Oscillator Cabinet
L53885	5995	00-L53885	Cable Assembly
L53886	6625	00-L53886	Time Interval Unit
L53887	"	00-L53887	Spectrum Analyser
L53891	5340	00-L53891	Bushing Isolator
L53892	5305	00-688-2346	Screw Machine
L53893	"	00-206-3050	Set Screw
L53894	5821	00-L53894	Spring Pin
L53900	5995	00-L53900	Cable Assembly
L53906	5821	00-L53906	Adaptor for 100Z 3201-1 Circuit Board
L53916	5935	00-L53916	Plug
L53926	5821	00-L53926	Mod Kit
L53935	5930	00-L53935	Switch
L53936	"	00-L53936	"
L53937	"	00-L53937	"

Old Identification No.		New Identification No.	
Group Class	Catalogue No.	Item Name	
L53942	5821	00-L53942	Oscillator Permeability Tuned R.F.
L53985	5970	00-L53985	Insulation Sleeving
6625-071-1664	6625	00-071-1664	Frequency Counter
6625-897-6886	"	00-897-6886	Spectrum Analyser
L42520	"	00-L42520	Oscilloscope Type 765 Dumont
L42523	"	00-L42523	Generator Pulse Dumont 404B
L53882	"	00-504-2449	Cable Assy 10503A
L53884	5995	00-686-4683	" " 11500A
L53941	6625	00-L53941	Meter Grid Dip Model 59
L57078	"	00-L57078	Calibrator Range
L57079	"	00-049-8272	Motor Power
L57080	"	00-L57080	Load Dummy
L57081	"	00-L57081	Set Test
L57082	"	00-L57082	Tester Tube Type 539C
L57083	"	00-L57083	Vibrator Analyser I.E.D. Model 314 C/W Standard Accessories
L57085	"	00-886-1962	Noise Source VHF Type 349A
L57086	"	00-753-1344	" " VHF Type 343A
L57087	"	00-690-5379	Cable Assy 10501A
L57088	"	00-716-4031	Noise Source Type X347A
L57089	"	00-887-7783	" " " G347A
L57090	"	00-045-9663	" " " S347A
L57091	"	00-821-2685	Digital Delay Rack MT Type 218AR
L57092	"	00-972-0538	Unit Dual Pulse Type 219B
L57093	"	00-972-0537	" Digital Pulse Duration Type 219C

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L57094	6625	00-L57094	Battery Kit for 431B Type 431B-95A Microwave, Power Supply
L57095	"	00-L57095	Wave Guide Thermistor Mount Type X486A
L57096	"	00-519-1755	Standing Wave Indicator Cabinet Type 415B
L57097	6625	00-885-1955	Co-Axial Thermistor Mount Type 478A
L57098	"	00-886-1954	Microwave Power Supply Submodule Type 431B
L57099	"	00-648-8340	Square Wave Generator Cabinet Type 211A
L57100	5995	00-968-3323	Cable Assy Type 1000A
L57101	6625	00-724-9599	" " " 1101A
L57102	"	00-L57102	Oscilloscope Type H02-160B
L57103	"	00-L57103	Auxiliary Plug-In Type H02-166A
L57104	"	00-678-0343	Dual Trace Vertical Amplifier Type H02-162B
L57105	"	00-L57105	Oscilloscope Type 175A
L57106	"	00-L57106	Dual Trace Vertical Amplifier Type 1750A
L57107	5905	00-957-1860	Attenuator Type 355D
L57108	6625	00-045-9665	" " 355C
L57109	5905	00-986-3945	Attenuator Sub/Module Type 350C
L57110	6625	00-585-1652	Distortion Analyser Type 330D

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L57111	6625	00-857-8261	Voltmeter High Accuracy Vacuum Tube Type 400H
L57112	"	00-360-2493	Cabinet Vacuum Tube Voltmeter Type 410B
L57113	"	00-996-7561	Probe Co-Axial Type 11042A
L57114	"	00-600-9901	Detector Crystal Wide Band Type 420A
L57115	"	00-953-9128	Termination Low Power Type S910A
L57116	"	00-967-0460	Unit Time Interval Type 5262A
L57117	"	00-L57117	Converter Frequency Type 5253B
L57118	"	00-973-4837	Module Electronic Counter Full Type 5245L
L57119	"	00-L57119	Cable Assy Type 10506B
L57120	"	00-L57120	Module Electronic Counter
L57121	"	00-055-3018	Meter Noise Figure
L57122	"	00-793-1345	Noise Source I.F.
L57123	"	00-553-6082	Waveguide to Co-Axial Adaptor
L57124	5985	00-L57124	" " "
L57125	6625	00-296-1867	" " "
L57126	"	00-L57126	Signal Generator
L57127	"	00-L57127	" "
L57128	"	00-539-5674	Cabinet VHF Signal Generator
L57129	"	00-819-0472	Signal Generator
L57130	"	00-538-9879	" "

<u>Old Identification</u>		<u>New Identification No.</u>	
<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>	
L57131	6625	00-020-6882	Termination Output
L57132	"	00-L57132	Generator Plug-In
L57133	"	00-L57133	Amplifier Four Channel
L57134	"	00-L57134	" Past Rise Vertical
L57136	"	00-788-3780	Cabinet Transfer Oscillator
L57137	"	00-L57137	Plug-In Auxiliary
L57138	"	00-065-4434	Cabinet Test Oscillator
L57139	"	00-L57139	" Wide Range "
L57140	"	00-553-1465	" Signal Generator
L57141	"	00-816-3099	" " "
L57142	5820	00-809-5399	Stabilised Lab Amplifier
L57143	6625	00-526-5230	Cabinet Electronic
L57144	"	00-643-1568	Oscillator
L57145	"	00-L57145	Sub-Module Test Oscillator
L57146	"	00-L57146	Tester Insulation
L57147	"	00-L57147	Cable 1060322
L57148	5935	00-L57148	Plug F101-2000
L57149	"	00-L57149	Receptacle F101-1000
L57150	6625	00-L57150	Hydrophone OT-65B
L57151	"	00-L57151	Transducer Element
L57152	"	00-L57152	Standard Air Capacitor
L57153	"	00-L57153	Standard Air Capacitor
L57154	"	00-L57154	Universal Eput and Timer
L57155	"	00-L57155	Triplet 630 Multimeter
L57156	5905	00-L57156	Attenuator AV 75N
L57157	"	00-L57157	" AV 50B
L57158	6625	00-L57158	Frequency Generator 900-A-8B
L57159	5985	00-714-3247	Narda Model 3004-20 Coupler
L57160	6625	00-977-2820	Meter Field Intensity

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>	
L57161	5985	00-L57161	Horn Antenna Band
L57162	"	00-L57162	" " "
L57163	"	00-L57163	" " "
L57164	"	00-L57164	" " "
L57165	"	00-L57165	Mounting Adaptor for Band
L57166	"	00-L57166	Antenna Reflector
L57167	"	00-L57167	Discone Antenna
L57168	"	00-L57168	Tripod and Fan
L57169	6625	00-L57169	R.F. Cable
L57170	"	00-L57170	A.C. Power Cable
L57171	"	00-L57171	MicroLab
L57172	"	00-973-0749	Action Type 310-BZ Angle Meter
L57173	"	00-L57173	Fairchild Dumont
L57174	"	00-L57174	" "
L57175	"	00-L57175	" "
L57176	"	00-L57176	" "
L57177	"	00-863-6837	Model 242 Resistance Measuring System
L57178	"	00-L57178	Model 700B Capacitance Measuring System
L57179	"	00-990-0970	Model 9C 1000 Capacitance Standard
L57180	5985	00-626-4370	Weinschel 50-20 Attenuator
L57181	"	00-655-7589	" 50-10 "
L57182	6625	00-L57182	Model EM236 Precision Power Supply
L57183	"	00-L57183	Model PV 36-15 Precision Power Supply

<u>Old Identification No.</u>		<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L57184	6625	00-L57184	Dummy Load
L57185	"	00-827-3959	Daven Power Output Meter
L57186	"	00-973-4431	Model 3010 Digital Voltmeter
L57187	"	00-862-5183	" 1203 Converter AC/DC
L57188	"	00-972-0538	" 219B Transistor Test Set
L57189	"	00-856-5452	Wattmeter
L57190	"	00-L57190	Frequency Selective Voltmeter
L57191	"	00-L57191	Multimeter Simpson 260
L57192	"	00-888-1495	Potentionmeter Model 7553-5
L57193	"	00-L57193	Fluke Model 803B/AG Unit
L57194	"	00-L57194	Spectrum Analyser
L57195	"	00-L57195	Voltmeter Ballantine No. 300
L57196	"	00-L57196	Signal Generator
L57197	5915	00-L57197	Filter Variable Band Pass
L57214	6625	00-L57214	Single Side Band Spectrum Analyser
L57234	"	00-L57234	Vector Admittance Bridge
L57235	"	00-L57235	" Plotter
L57367	"	00-L57367	Delay Line Standard
L57368	"	00-L57368	Control Box
L57396	"	00-L57396	Oscilloscope
L57414	"	00-L57414	Spectrum Analyser
L57415	"	00-L57415	" "
L57416	"	00-L57416	Dual Trace Vertical Amplifier
L57417	"	00-L57417	Multihole Coupler

<u>Old Identification No.</u>		<u>New Identification No.</u>	
	<u>Group Class</u>	<u>Catalogue No.</u>	<u>Item Name</u>
L57418	5985	00-L57418	Precision Variable Waveguide Attenuator
L57419	6625	00-L57419	Microwave Power Meter Cabinet
L57472	5985	00-L57472	Waveguide Tuner Slide Screw
L57473	"	00-L57473	Waveguide Termination Low Power
L57474	6625	00-L57474	Multihole Coupler
L57475	"	00-L57475	Low Frequency Function
L57476	"	00-L57476	Co-Axial Thermistor, Mount
L51807	5905	00-L51807	Resistor
L53889	5935	00-L53889	Tube Socket
L53946	5340	00-L53946	Cirolip - Special
L53948	5821	00-L53948	Transmitter Receiver
L53960	6625	00-L53960	Gyro Unit Test
L53986	4020	00-L53986	Tape Lacing
L53987	6145	00-686-4451	Wire Electron 26AWG
L53988	5950	00-L53988	Transformer
L53990	5920	00-L53990	Fuse Cartridge
L53991	5960	00-L53991	Retainer Tube
L53992	"	00-L53992	" "
L53994	5935	00-L53994	Connector
L53995	5975	00-L53995	Coupling Metal Bellows
L53996	5920	00-L53996	Fuse Cartridge
L53997	"	00-348-0494	Transformer Pulse
L53998	5960	00-L53998	Retainer Electron Tube

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L53999	5960	00-L53999	Retainer Electron Tube
L57000	5935	00-201-7969	Plug
L57001	"	00-230-1554	"
L57002	"	00-L57002	"
L57003	"	00-814-9781	Connector
L57004	"	00-L57004	Plug
L57005	"	00-149-2901	"
L57006	"	00-L57006	"
L57007	"	00-823-0890	Connector
L57008	"	00-L57008	"
L57009	"	00-818-4325	"
L57010	"	00-L57010	"
L57011	"	00-L57011	Receptacle
L57012	"	00-L57012	"
L57013	"	00-686-9540	"
L57014	"	00-280-2195	Adaptor
L57015	"	00-L57015	Hood
L57016	"	00-614-0533	Connector
L57017	"	00-L57017	Receptacle
L57021	"	00-716-6498	Connector
L57022	"	00-L57022	Junction Shell
L57023	"	00-L57023	Plug
L57024	"	00-L57024	Connector
L57025	"	00-L57025	Receptacle
L57026	"	00-L57026	Plug
L57028	"	00-L57028	Adaptor
L57029	"	00-L57029	Receptacle
L57030	"	00-L57030	"
L57031	"	00-L57031	Adaptor
L57032	"	00-L57032	Male Lock Assy

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L57033	5935	00-L57033	Connector
L57034	"	00-L57034	"
L57035	"	00-L57035	"
L57036	"	00-642-0482	"
L57037	"	00-666-1656	"
L57038	"	00-L57038	"
L57039	"	00-L57039	"
L57040	"	00-L57040	Receptacle Assy
L57041	"	00-804-0802	Connector
L57042	"	00-L57042	"
L57046	"	00-L57046	Plug
L57049	5841	00-L57049	Case
L57051	"	00-L57051	Receiver-Decoder Set
L57054	"	00-L57054	Antenna
L57055	"	00-L57055	Cable Assy
L57056	"	00-L57056	" "
L57057	"	00-L57057	" "
L57058	"	00-L57058	" "
L57059	"	00-L57059	" "
L57060	"	00-L57060	Kit Modification
L57068	5935	00-149-3381	Receptacle
L57069	5841	00-L57069	Transmitter-Counter Measure
L57070	"	00-L57070	Cooler-Liquid Electron Tube
L57071	"	00-L57071	Control Indicator
L57072	7610	00-L57072	Handbook for Alt - 21A
L57073	5841	00-L57073	Oscillator R.F.
L57074	"	00-L57074	Board 8BWD
L57075	"	00-L57075	Bench Harness

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L57076	5841	00-L57076	Case Electrical Eqipt.
L57198	"	00-L57198	Window
L57199	"	00-L57199	Contact Adjusting
L57204	5355	00-747-9969	Knob
L57205	5841	00-L57205	Cable Assy
L57206	"	00-L57206	" "
L57207	"	00-L57207	" "
L57208	"	00-L5720 8	" "
L57209	"	00-L57209	Shockmounts
L57210	"	00-L57210	" "
L57213	"	00-L57213	Receptacle
L57215	"	00-L57215	Amplifier
L57216	"	00-L57216	Horn Waveguide
L57226	"	00-L57226	Connector
L57227	"	00-L57227	Wire
L57228	"	00-L57228	Mod Kit CSB No. 13
L57229	"	00-L57229	" " " " 14
L57231	"	00-L57231	Tray Mounting for Trans- mitter
L57232	"	00-L57232	Tray Mounting for Coder
L57236	"	00-L57236	Mod Kit CSB No. 15
L57361	5930	00-L57361	Switch Rotary
L57369	5355	00-L57369	Knob
L57370	5841	00-L57370	Strip Solder
L57371	"	00-L57371	" Tear
L57372	"	00-L57372	Glass Scale
L57373	"	00-L57373	Screw
L57374	"	00-L57374	Mechanism Assy Horizontal
L57375	"	00-L57375	" Assy Vertical
L57376	6610	00-740-7218	" " Arrow

<u>Old Identification No.</u>		<u>New Identification No.</u>	
<u>Group Class</u>		<u>Catalogue No.</u>	<u>Item Name</u>
L57377	6610	00-740-7216	Mechanism Assy Flag
L57378	5930	00-L57378	Switch
L57379	5841	00-797-5025	Tube Sealing
L57380	"	00-L57380	Bellows Assy
L57381	"	00-L57381	Housing Hemeflex
L57382	"	00-L57382	Board Assy
L57383	"	00-L57383	Window
L57384	5940	00-L57384	Terminal Board
L57385	6240	00-L57385	Light Red
L57386	5355	00-L57386	Knob
L57387	5930	00-L57387	Switch
L57388	5841	00-L57388	Clamp
L57390	"	00-L57390	Nut
L57389	5970	00-L57389	Insulator
L57391	5841	00-L57391	Terminal Stud
L57392	5920	00-L57392	Fuse Holder
L57393	5841	00-L57393	Lead Assy
L57394	"	00-L57394	Cable "
L57395	"	00-L57395	Adaptor
L57464	"	00-L57464	Receptacle
L57465	"	00-L57465	Casting
L57466	6625	00-871-2528	Portable Inductor Randomiser Test Set
L57471	5841	00-L57471	Transformer
L57495	"	00-L57495	Packing
L57510	"	00-L57510	Antenna Assy
L57515	"	00-L57515	Spacer
L57516	"	00-L57516	Washer Flat
L57517	"	00-L57517	Screw Machine

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Registrar

ANO 253/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
5th June, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

J. Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

253—Stores General (Group/Class 0623)—Transfer to NATO Group/Classes and Re-identification—American W/T

Items of American W/T presently accounted for under Group/Class 0623 have been transferred to applicable NATO Group/Classes, Appendixes "A" and "B" respectively.

2. Appendix "A" details those items currently held under an abridged FSN, i.e., the Nation Code is not included, which have now been re-identified to the full FSN (Nation Code now included).

3. Appendix "B" details those items currently held under local stock numbers, and where it has been possible to establish an FSN, the FSN is shown. All other local stock numbered items procured from the USA have been transferred to the applicable NATO Group/Class, the Local Stock Number retained and the Nation Code inserted.

4. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/58/264)

APPENDIX "A"

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
2940-312-0640	4130	00-312-0640	Cleanser Air
3010-294-5174	3010	00-294-5174	Coupling, Shaft rigid.
" - " -5749	3010	00-294-5749	Coupling, flexible.
" - " -5919	3010	00-294-5919	" "
" -310-3414	3010	00-310-3414	Gear assembly.
" -316-9370.	3010	00-316-9370	" "
3020-049-8490	3020	00-049-8490	" spur.
" - " -8491	3020	00-049-8491	" " type.
" - " -8492	3020	00-049-8492	" " "
" - " -8496	3020	00-049-8496	" " "
" - " -8498	3020	00-049-8498	" bevel type.
" - " -8500	3020	00-049-8500	"
" - " -8535	3020	00-049-8535	" Shaft Auxillary.
" - " -8547	3020	00-049-8547	" Spur type.
" - " -8548	3020	00-049-8548	Gear main O-404-GSM.
" -204-3064	3020	00-204-3064	" Spur type.
" -204-3067	3020	00-204-3067	"
" -204-4693	3020	00-204-4693	" Spur.
" -270-3580	3020	00-270-3580	"
" -287-7198	3020	00-287-7198	" " type.
" -288-0120	3020	00-288-0120	" " "
" - " -1439	3020	00-288-1439	Pinion Servo. 045 GSM.
" - " -3105	3020	00-288-3105	Gear, spur. type.
" - " -5039	3020	00-288-5039	" " "
" - " -5042	3020	00-288-5042	Pinion, servo. O-520 GSM.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
3020-289-7225	3020	00-289-7225	Gear spur type.
" - " -7794	3020	00-289-7794	" 0-516 GSM.
" - " -7947	3020	00-289-7947	" Spur type steel.
" -294-4498	3020	00-294-4498	" bevel type.
3020-294-4512	3020	00-294-4512	" bevel type.
" - " -4514	3020	00-294-4514	" " "
" - " -4515	3020	00-294-4515	" " "
" - " -4543	3020	00-294-4543	" " "
" - " -4629	3020	00-294-4629	" spur "
" - " -4644	3020	00-294-4644	" " "
" - " -4651	3020	00-294-4651	" " "
" - " -4780	3020	00-294-4780	" " "
" - " -4811	3020	00-294-4811	" " "
" - " -4816	3020	00-294-4816	" " " aluminium
" - " -4819	3020	00-294-4819	" " "
" - " -4829	3020	00-294-4829	" pinion
" - " -4972	3020	00-294-4972	" aluminium
" - " -4974	3020	00-294-4974	" s/s.
" - " -5147	3020	00-294-5147	" spur type.
" - " -5156	3020	00-294-5156	" " "
" - " -5301	3020	00-294-5301	" nylon
" - " -5481	3020	00-294-5481	" bevel type.
" - " -5502	3020	00-294-5502	" spur "
" - " -5563	3020	00-294-5563	" bevel "
" - " -5579	3020	00-294-5579	" spur "

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
3020-294-5610	3020	00-294-5610	Gear bevel type.
" - " -5841	3020	00-294-5841	" " "
" - " -5843	3020	00-294-5843	" worm "
" - " -5999	3020	00-294-5999	" spur "
" - " -6142	3020	00-294-6142	" " "
" - " -7265	3020	00-294-7265	" and hub assembly.
" - " -7266	3020	00-294-7266	" " " "
" - " -7302	3020	00-294-7302	" spur type.
" - " -7306	3020	00-294-7306	" bevel type.
" - " -8062	3020	00-294-8062	" hub assembly.
" - " -9167	3020	00-294-9167	" bevel type.
" -310-3345	3020	00-310-3345	" spur type.
" -310-3359	3020	00-310-3359	" " "
" -310-3373	3020	00-310-3373	" " "
" -310-3416	3020	00-310-3416	" " "
" -310-3431	3020	00-310-3431	" " "
" -310-3436	3020	00-310-3436	" spur.
3020-310-3437	3020	00-310-3437	Gear
" - " -3438	3020	00-310-3438	" spur.
" - " -3455	3020	00-310-3455	" assembly.
" -316-9369	3020	00-316-9369	" " "
" -325-8456	3020	00-325-8456	" s/s.
" -517-2292	3020	00-517-2292	" " "
" -517-2293	3020	00-517-2293	Gear and hub assembly.
" - " -2295	3020	00-517-2295	Gear. " " "
" - " -2655	3020	00-517-2655	Hub.
" - " -3092	3020	00-517-3092	Gear. " " "

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
3020-517-3093	3020	00-517-3093	Gear and hub assembly.
3020-698-8391	3020	00-698-3391	" bevel.
3020-049-8548	3020	00-049-8548	" shaft main.
3040-313-2878	3020	00-313-2878	Shaft assembly.
" -333-9416	3040	00-333-9416	" " , flexible.
3110-144-8489	3110	00-144-8489	Bearing, ball.
" - " -8490	3110	00-144-8490	" "
" -155-6197	3110	00-155-6197	" "
" - " -6201	3110	00-155-6201	" "
" - " -6240	3110	00-155-6240	" ball, single row.
" - " -9602	3110	00-155-9602	" "
" - " -9630	3110	00-155-9630	" "
" -198-0607	3110	00-198-0607	" "
" -227-2648	3110	00-227-2648	" "
" - " -4329	3110	00-227-4329	" Pafner
" -293-9588	3110	00-293-9588	" (0503)
3120-325-7934	3120	00-325-7934	Sleeve, spacer.
4130-640-0506	4130	00-640-0506	Cleaner, air.
" -988-0858	4130	00-988-0858	Filter, air.
4140-289-4297	4140	00-289-4297	Blower, reverse air flow.
4140-541-4091	6105	00-541-4091	Pan, vent prop.
4140-560-8012	4140	00-560-8012	Cleaner, air cartridge type.
4540-287-3178	4540	00-287-3178	Heater H.R.-401 GSM.
4730-316-9512	4730	00-316-9512	Connector plug single R.F. probe.

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
4730-483-2664	4730	00-483-2664	Nut, lock.
5120-223-6995	5120	00-223-6995	Wrench.
" -224-2482	5120	00-224-2482	"
" -240-5292	5120	00-240-5292	Wrench, hex 4/32 across flats.
" -249-9670	5120	00-249-9670	"
" -277-8300	5120	00-277-8300	" open end 11/16" and 13/16".
" -293-0195	5120	00-293-0195	Wrench
" -323-1063	5120	00-323-1063	Tool, special.
" -696-9327	5120	00-696-9327	Wrench Set Screw Hex 7/32" across flats.
5210-325-3154	5210	00-325-3154	Light indicator.
5305-030-7894	5305	00-030-7894	Screw, lock.
5305-031-0721	5305	00-031-0721	" , thumb.
" -206-3311	5305	00-206-3311	" , captive.
" -271-2472	5305	00-271-2472	"
" -292-5321	5305	00-292-5321	" captive.
" -306-8005	5305	00-306-8005	" adjacent.
" -311-7456	5305	00-311-7456	" "
" -313-7923	5305	00-313-7923	" "
5310-042-6217	5310	00-042-6217	Washers, lock.
" -215-7871	5310	00-215-7871	"
" -595-6274	5310	00-595-6274	Nut, Hexagonal.
5315-198-6110	5310	00-198-6110	Pin, taper.
" -273-7977	5315	00-273-7977	" , grooved as type.
" -286-4173	5315	00-286-4173	" , locating.
" -694-5499	5315	00-694-5499	" , grooved as s.s. type.
5325-285-2014	5325	00-285-2014	Fastener (Cir. Ref. H 108).

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5330-090-0705	5330	00-090-0705	Ring 'O'.
" -194-3713	5330	00-194-3713	Gasket neoprene
" -194-3730	5330	00-194-3730	" synthetic
" -196-5337	5330	00-196-5337	"
" -198-6204	5330	00-198-6204	"
" -202-4381	5330	00-202-4381	Insulator.
" -202-4382	5330	00-202-4382	"
" -202-4383	5330	00-202-4383	"
" -291-7140	5330	00-291-7140	Seal, oil.
" - " -9560	5330	00-291-9560	Gasket O303 GSM
" -292-4005	5330	00-292-4005	Seal Oil.
" - " -4006	5330	00-292-4006	" "
5330-312-2650	5330	00-312-2658	Insulator.
" " -2670	5330	00-312-2670	"
" " -2677	5330	00-312-2677	"
" " -2688	5330	00-312-2688	"
5330-325-7947	5330	00-325-7947	Seal, Grease
5330-512-5636	5330	00-512-5636	Ring 'O'.
5330-582-2130	5330	00-582-2130	Gasket.
5330-599-0281	5330	00-599-0281	Insulator.
5330- " -0282	5330	00-599-0282	"
" - " -0283	5330	00-599-0283	"
" - " -0290	5330	00-599-0290	"
" - " -0291	5330	00-599-0291	"
" - " -9482	5330	00-599-9482	"
" -607-0064	5330	00-607-0064	Seal, Grease.
5340-200-3677	5340	00-200-3677	Ring, Retainer.
" -200-3982	5340	00-200-3982	Mount, Shock.

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5340-200-5529	5340	00-200-5529	Ring, Retaining
" - " -7306	5340	00-200-7306	Spring
" - " -7422	5340	00-200-7422	Spring
" - " -8914	5340	00-200-8914	Spring, Magnet, Coil (Upper set)
" -216-6748	5340	00-216-6748	Mount, vibration.
" -260-6513	5340	00-260-6513	Spring, Plunger 230 v. DC.
" -268-2232	5340	00-268-2232	" , Contact
" -282-7149	5340	00-282-7149	Ring, Retaining.
" -285-7987	5340	00-285-7987	" "
" -309-0512	5340	00-309-0512	Washer, Extruded.
" -310-7205	5340	00-310-7205	Lock RH Case Lock.
" -312-1766	5340	00-312-1766	Spring Arm E444 GSM.
" - " -6499	5340	00-312-6499	Mounting Vibration.
" -313-2925	5340	00-313-2925	Spring.
" -313-2928	5340	00-313-2928	"
" -313-2929	5340	00-313-2929	"
" -313-2931	5340	00-313-2931	" , Flat
" -313-2970	5340	00-313-2970	" "
" -318-5448	5340	00-318-5448	" Arm E507 GSM
" -325-7934	5340	00-325-7934	Sleeve, Spacer.
" -393-1391	5340	00-393-1391	Mount Vibration
" -568-0983	5340	00-568-0983	" "
5340-568-2540	5340	00-568-2540	Mount Vibration
" -597-0147	5340	00-597-0147	Clamp Cable
" - " -3456	5340	00-597-3456	Spring Helical
" - " -6844	5340	00-597-6844	Mount Shock
" -598-0216	5340	00-598-0216	Clamp
" -664-4303	5340	00-664-4303	Spring Lever 230 v DC.

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8.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5340-721-8187	5340	00-721-8187	Ring
" -803-7301	5340	00-803-7301	" Retaining.
5355-026-0209	5355	00-026-0209	Knob.
" - " -0210	5355	00-026-0210	"
" - 031-1579	5355	00-031-1579	"
" -049-8473	5355	00-049-8473	Dial, Pulse Duration
" - " - 8812	5355	00-049-8812	Dial
" - 160-5964	5355	00-160-5964	Knob, Black Moulded.
" - 284-4575	5355	00-284-4575	"
" - " -5583	5355	00-284-5583	" , Control
" - " -5610	5355	00-284-5610	" , Pointer
" - " -5649	5355	00-284-5649	" , Plastic Black
" - " -7559	5355	00-325-7559	Plate, Cam Selector.
" -334-9616	5355	00-334-9616	Knob, Control.
" -369-1144	5355	00-369-1144	Shaft Lock.
" -503-1553	5355	00-503-1553	Knob, Round Aluminium
" -504-6439	5355	00-504-6439	" , Dial Connector.
" -504-9147	5355	00-594-9147	" , Round
" -552-9043	5355	00-552-9043	"
" -556-0145	5355	00-556-0145	" , Control.
" -556-0151	5355	00-556-0151	" "
" -559-5157	5355	00-559-5157	" , Pointer.
" -567-8566	5355	00-567-8566	Window Non-Shatterable. Glass, 2-Ply Glass, 1 Fly Celluloid 0.030" Thick.
5355-576-8756	5355	00-576-8756	Knob, Round, Aluminium.
" -579-6196	5355	00-579-6196	" " "
" -579-6382	5355	00-579-6382	" , Black, Moulded.
" -579-7474	5355	00-579-7474	Control, Dial.

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9.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5355-584-4243	5355	00-584-4243	Knob, Bakelite.
" -607-1398	5355	00-607-1398	" "
" -624-1298	5355	00-624-1298	" , Round.
5355-644-1116	5355	00-644-1116	Knob, Round, Aluminium.
" - " -1362	5355	00-644-1362	"
" - " -1737	5355	00-644-1737	Dial, Vernier.
" - " -2139	5355	00-644-2139	Knob, Round, Aluminium.
" - " -2174	5355	00-644-2174	Knob.
" - " -2392	5355	00-644-2392	"
" - " -2468	5355	00-644-2468	" , Plastic, Black.
" - " - 4161	5355	00-644-4161	"
" - " -4199	5355	00-644-4199	Crank, Hand.
" -667-9555	5355	00-667-9555	Knob, Bar.
" -668-5519	5355	00-668-5519	"
" " -6126	5355	00-668-6126	"
" -669-2709	5355	00-669-2709	"
" -784-7003	5355	00-784-7003	" , Black.
" -802-7064	5355	00-802-7064	" , "
" -809-9329	5355	00-809-9329	" , "
" -809-9333	5355	00-809-9333	" , Red
" -812-7918	5355	00-812-7918	" , "
5820-296-1358	5820	00-296-1358	Adaption Co-Axial.
" -309-5618	5820	00-309-5618	Socket, Cap Tube.
" -309-5620	5820	00-309-5620	Cam, Oscillator.
" -309-5622	5820	00-309-5622	"
" -309-7619	5820	00-309-7619	Clamp

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Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5820-310-0480	5820	00-310-0480	Fitting
" - " -0481	5820	00-310-0481	"
" - " -0482	5820	00-310-0482	"
" - " -3435	5820	00-310-3435	Gear, Spur
" - " -3444	5820	00-310-3444	" Assembly.
" -312-0635	5820	00-312-0635	Compensator
" - " -0636	5820	00-312-0636	Collett.
" - " -1360	5820	00-312-1360	Gear Assembly.
" -313-2948	5820	00-313-2948	Shaft Assembly.
" - " -2963	5820	00-313-2963	" "
" -329-9069	5820	00-329-9069	Induction Generator G401 GSM.
" -604-0739	5820	00-604-0739	Choke.
" -644-4943	5820	00-644-4943	Tuner HF. Pre-Selection 90-180 MGS.
" -665-0027	5820	00-665-0027	Preamplifier If. 160 MGS.
" - " -0781	5820	00-665-0781	Cavity Tuned.
" - " -3091	5820	00-665-3091	Drive Attenuator.
" - " -3371	5820	00-665-3371	Oscillator Frequency.
5825-305-8526	5825	00-305-8526	Support Consisting of Mycalox Block and 4 Brass Rods
" -313-7897	5825	00-313-7897	Antenna Drive Tube 30 Feet.
5830-665-2182	5830	00-665-2182	Contact Assembly.
5840-257-6369	5840	00-257-6369	Connection.
" -310-0478	5840	00-310-0478	Filter Low Pass 545-1105
" -312-7244	5840	00-312-7244	Cam Selectors.
" -313-8062	5840	00-313-8062	Connector.
" -318-7040	5840	00-318-7040	Collector Radio Frequency.

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5840-338-1736	5840	00-338-1736	Contact Assembly.
" -507-2554	5840	00-507-2554	Plate.
" -538-4925	5840	00-538-4925	Tuner R-F.
" - " -4926	5840	00-538-4926	" "
" - " -4927	5840	00-538-4927	" "
" -548-7576	5840	00-548-7576	" "
" -552-9136	5840	00-552-9136	" "
" - " -9137	5840	00-552-9137	" "
" - " -9138	5840	00-552-9138	" "
" - " -9139	5840	00-552-9139	" "
" - " -9140	5840	00-552-9140	" "
" -556-0192	5840	00-556-0192	" "
" -643-3413	5840	00-643-3413	Power Supply.
" - " -7997	5840	00-643-7997	Cap.
" -644-4284	5840	00-644-4284	Scale for G.R.T.
" - " -4285	5840	00-644-4285	Scale Oscilloscope
" -665-0024	5840	00-665-0024	Amplifier If.
" - " -0032	5840	00-665-0032	Preamplifier If. 160 MGS.
" -257-6369	5840	00-257-6369	Connector.
" -695-0185	5840	00-695-0185	Cavity Tuned.
5841-532-7015	5841	00-532-7015	Compensator.
5845-309-2532	5845	00-309-2532	Shaft Assembly.
5850-665-1554	5850	00-665-1554	Lens, White 2 Ply Glass 1 Ply Cellulose Acetate.
5850-665-1555	5850	00-665-1555	Lens, Yellow 2 Ply Glass 1 Ply Cellulose Acetate.
5895-049-8929	5895	00-049-89-29	Switch Co-Axial 5-401 GSM.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5895-257-6369	5895	00-257-6369	Connector.
" -295-7001	5895	00-295-7001	Cabinet CY/1272/ULR.
" -295-7109	5895	00-295-7109	Switching Group Radio. Frequency.
5895-296-2031	5895	00-296-2031	Preamplifier I.f. 160 MOS.
" - " -2034	5895	00-296-2034	Horn Assembly Co-Axial.
" - " -2299	5895	00-296-2299	Relay Rotary
" - " -5508	5895	00-296-5508	Indicator Control.
" -301-0911	5895	00-301-0911	R.F. Tuner.
" - " -0912	5895	00-301-0912	" "
" - " -0913	5895	00-301-0913	" "
" - " -7520	5895	00-301-7520	Mixer Amplifier.
" -305-8003	5895	00-305-8003	Joint Lower Co-Axial
" -308-4595	5895	00-308-4595	Arm
" - " -4615	5895	00-308-4615	Lead Screw Assembly
" - " -4771	5895	00-308-4771	Cam Oscillator.
" - " -5016	5895	00-308-5016	Shaft Assembly.
" - " -5018	5895	00-308-5018	" "
" - " -5019	5895	00-308-5019	" "
" - " -7354	5895	00-308-7354	Cam.
" -309-7354	5895	00-309-7354	"
" -310-0486	5895	00-310-0486	Fitting.
" - " -3442	5895	00-310-3442	Gear Assembly.
" -312-0471	5895	00-312-0471	Coupling Flexible.
" -312-0642	5895	00-312-0642	Pc Amplifier
" - " -8311	5895	00-312-8311	Contact Case Adjacent.
" -313-3032	5895	00-313-3032	Shaft Assembly.
" -315-2378	5895	00-315-2378	Plate Cam Selector.

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5895-316-1128	5895	00-316-1128	Plate Cam Selector.
" -318-7128	5895	00-318-7128	Connector
" -318-7129	5895	00-318-7129	" Plug.
" -325-6372	5895	00-325-6372	R.F. Tuner.
" -325-6856	5895	00-325-6856	Cam
" -325-7272	5895	00-325-7272	Shaft Assembly.
" -325-8229	5895	00-325-8229	Shaft Assembly.
" - " -8230	5895	00-325-8230	" "
" - " -8360	5895	00-325-8360	Collett
" - " -8387	5895	00-325-8387	Cam.
" - " -8674	5895	00-325-8674	Spring
" - " -8783	5895	00-325-8783	Shaft for Idler Gear.
" -328-9401	5895	00-328-9401	Amplifier
" -330-4861	5895	00-330-4861	Hub.
" -330-5004	5895	00-330-5004	Shaft Cam s.s. type.
" -330-8892	5895	00-330-8892	Cavity Tuned
" -330-9013	5895	00-330-9013	Shaft Stop Gear
" -332-1965	5895	00-332-1965	Shaft Assembly
" -338-9018	5895	00-338-9018	Compensator
" -548-7566	5895	00-548-7566	Tuned R.F.
" -578-3303	5895	00-578-3303	Unit Control.
" -628-6355	5895	00-628-6355	Receiving Set, Counter Measures AM/WLR3 Comprising: - RFB1/WLR3 Detector Switching Unit AM 1936/WLR 3 Amplifier Control.
5895-642-6892	5895	00-642-6892	Oscillator.
" -642-6893	5895	00-642-6893	" , RF 220-380 MOS.

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Old Identification No. New Identification No.

	Group Class	Catalogue No.	Item Name
5895-642-8131	5895	00-642-8131	Electrical Equipment Cabinet (Houses)
" -642-8166	5895	00-642-8166	Cavity Tuned.
" -643-7681	5895	00-643-7681	Connector
" -643-7994	5895	00-643-7994	Cap Crystal
" -643-7997	5895	00-643-7997	Cap
" -665-0028	5895	00-665-0028	Pre-Amplifier
" - " -0029	5895	00-665-0029	" "
" - " -0052	5895	00-665-0052	Cavity Tuned
" - " -0054	5895	00-665-0054	" "
" - " -2385	5895	00-665-2385	Contact Assembly
" - " -2410	5895	00-665-2410	Arm
" - " -2746	5895	00-665-2746	Oscillator R.F.
5910-670-5412	5910	00-670-5412	Coupling Capacitor Shaft.
5915-156-2038	5915	00-156-2038	Filter
" -228-5406	5915	00-228-5406	" Low Pass.
" -284-5425	5915	00-284-5425	Gear Spur Type.
" -284-5429	5915	00-284-5429	Filter Suppressor.
" -296-0842	5915	00-296-0842	" Low Pass 295-610 MCS.
" -296-2025	5915	00-296-2025	Suppressor Parasitic
" -325-6857	5915	00-325-6857	Tuner R.F. Preselector 160-320 MCS
" -325-7561	5915	00-325-7361	Tuner R.F.
" -331-4389	5915	00-331-4389	Compensator
" -376-8920	5915	00-376-8920	Suppressor Electrical
" -394-1336	5915	00-394-1336	Connector Filter.
" -501-0634	5915	00-501-0634	Suppressor Parasitic.
" -501-4018	5915	00-501-4018	" "
" -513-9611	5915	00-513-9611	Filter Low Pass 100 MCS Out Off.

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Old Identification No. New Identification No.

	Group Class	Catalogue No.	Item Name
5915-513-9701	5915	00-513-9701	Filter Low Pass 540-1110 MCS.
" -552-0118	5915	00-552-0118	Filter Network Assembly.
" - " -0119	5915	00-552-0119	Filter Network Assembly
" - " -0120	5915	00-552-0120	Filter Network Assembly
" - " -0121	5915	00-552-0121	Filter Network Assembly
" - " -0122	5915	00-552-0122	Filter Network Assembly
" - " -0123	5915	00-552-0123	Filter Network Assembly
" - " -0124	5915	00-552-0124	Filter Network Assembly
" - " -0926	5915	00-552-0926	Filter Network Assembly
" - " -0927	5915	00-552-0927	Filter Network Assembly
" - " -1080	5915	00-552-1080	Filter Network Assembly
" -556-2189	5915	00-556-2189	Filter, Radio Interference
" -561-6173	5915	00-561-6173	Impedance Matching Network.
" -602-9921	5915	00-602-9921	Filter Low Pass
" -636-0629	5915	00-636-0629	" " "
" -636-0657	5915	00-636-0657	" " "
" -643-8238	5915	00-643-8238	" , PL201
" -643-8263	5915	00-643-8263	" , Low Pass 85-190 MCS.
" -643-8368	5915	00-643-8368	Suppressor, Parasitic.
" -643-8387	5915	00-643-8387	" "

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5915-643-8388	5915	00-643-8388	Suppressor, Parasitic.
5915-643-8485	5915	00-643-8485	Suppressor, (FL 1601)
" -643-8451	5915	00-643-8451	"
" -665-2328	5915	00-665-2328	Filter, Low Pass, 545-1105 MGS.
" -809-9638	5915	00-809-9638	Filter, Line.
" -894-0853	5915	00-894-0853	Filter, Assembly.
5920-142-4838	5920	00-142-4838	Filter Cartridge
" -156-9233	5920	00-156-9233	" Holder.
" -221-4519	5920	00-221-4519	" , F02.
" -243-3787	5920	00-243-3787	" , 10 AMP.
" -243-3788	5920	00-243-3788	" Cartridge.
" -247-2676	5920	00-247-2676	Holder Fuse Block Type.
" -247-3809	5920	00-247-3809	Fuse Holder.
" -280-4009	5920	00-280-4009	Fuse Indicating Lamp.
" -280-4010	5920	00-280-4010	Fuse Cartridge.
" -280-4099	5920	00-280-4099	Fuse Holder.
" -280-4155	5920	00-280-4155	Holder Fuse Extractor.
" -280-4252	5920	00-280-4252	Fuse Holder Busman
" -280-4465	5920	00-280-4465	Fuse Cartridge 1.250v.
" -280-5091	5920	00-280-5091	"
" -280-9329	5920	00-280-9329	" 10 AMP. Little Fuse.
" -281-0209	5920	00-281-0209	Fuse Cartridge 3 AMP.
" -281-0210	5920	00-281-0210	" "
" -281-0224	5920	00-281-0224	" 8 AMP.
" -281-0225	5920	00-281-0225	" Cartridge.
" -283-7178	5920	00-283-7178	Cap Extractor Post Fuse Holder.

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5920-284-6785	5920	00-284-6785	Fuse Cartridge
" -284-9494	5920	00-284-9494	"
" -295-7787	5920	00-295-7787	"
" -473-5912	5920	00-473-5912	"
" -501-1658	5920	00-501-1658	" Cartridge 2A 250 v.
" -503-0302	5920	00-503-0302	Body Extractor Post Fuse Holder.
" -518-1793	5920	00-518-1793	Fuse
" -519-7733	5920	00-519-7733	" 8 AMP.
" -552-9145	5920	00-552-9145	Arrestor Surge.
" -553-4843	5920	00-553-4843	Fuse Holder Extractor. Post
" -566-0144	5920	00-566-0144	Fuse Holder FHN 206.
5920-636-4554	5920	00-636-4554	Fuse Holder Miniature
" -683-4915	5920	00-683-4915	Fuse Holder Panel Mounted Transparent Knob.
5920-846-5724	5920	00-846-5724	Fuse.
" -846-5726	5920	00-846-5726	" 10 AMP.
" -850-6091	5920	00-850-6091	"
5925-173-6440	5925	00-173-6440	Spring Contact.
5930-050-2627	5930	00-050-2627	Switch Toggle Spst.
5930-050-2635	5930	00-050-2635	" " Dpst.
" -050-2638	5930	00-050-2638	" " Dpst.
" -050-2704	5930	00-050-2704	" " Dpst. 30 AMP.
" -112-5126	5930	00-112-5126	Switch.
" -201-2570	5930	00-201-2570	" , Rotary.

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Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5930-201-2593	5930	00-201-2593	Switch, Section.
" -201-2594	5930	00-201-2594	" "
" -201-4704	5930	00-201-4704	Adaptor Switch Actuator.
" -204-9559	5930	00-204-9559	Assembly, E501D Contact Consisting of Aluminium Screw and Tungsten Switch Contact.
5930-230-2561	5930	00-230-2561	Switch Sensitive Spdt. Micro 15 AMP K5VAC Push Button.
5930-230-2582	5930	00-230-2582	Switch Sensitive.
" -233-4960	5930	00-233-4960	Assembly 0501 Steady Bearing.
" -233-4968	5930	00-233-4968	Contact.
" -238-7778	5930	00-238-7778	Switch Blower Interlock Spdt.
" -239-0063	5930	00-239-0063	Switch, Rotary.
" -240-4239	5930	00-240-4239	"
" -241-4163	5930	00-241-4163	Contact Tungsten Tipped 604 0.557" Long.
" -241-4165	5930	00-241-4165	Assembly E501E Contact.
" -247-4919	5930	00-247-4919	Switch
" -247-8269	5930	00-247-8269	" , Rotary 2 Pole, 4 Position
" -250-3837	5930	00-250-3837	Switch, Rotary, Complex Contact Layout.
5930-253-0529	5930	00-253-0529	Thermostat.
" -253-8796	5930	00-253-8796	Switch Sensitive Micro
" -257-0960	5930	00-257-0960	" Push.
" -258-4861	5930	00-258-4861	" , Spdt.

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5930-258-5256	5930	00-258-5256	Switch, Spdt. 25 AMP.
" -258-5267	5930	00-258-5267	" , Sensitive.
" -258-5296	5930	00-258-5296	" , Spdt. 25 AMP.
" -259-7207	5930	00-259-7207	" , Rotary 3 Pole 4 Position.
" -259-8792	5930	00-259-8792	Switch, Rotary 2 Pole 2 Position.
" -259-9423	5930	00-259-9423	Switch, Toggle 30 AMP 4 Position
" -268-1553	5930	00-268-1553	Switch, Rotary Complex Contact Layout.
" -296-5192	5930	00-296-5192	Switch, Thermostat Spdt.
" -296-5792	5930	00-296-5792	Switch, S302 GSM.
" -296-6971	5930	00-296-6971	" , Push Dpst. 30 AMP.
" -303-6925	5930	00-303-6925	Switch Assembly
" -308-4615	5930	00-308-4615	Lead Screw Assembly
" -312-0458	5930	00-312-0458	Actuator Assembly
" -312-2804	5930	00-313-2804	Lever R.H. Moulded Nylon.
" -313-2935	5930	00-313-2935	Switch Rotary.
" -313-2936	5930	00-313-2936	" "
" -313-2938	5930	00-313-2938	" "
" -335-9445	5930	00-335-9445	" , Sensitive. S-603 GSM.
" -504-6855	5930	00-504-6855	Switch
" -548-3369	5930	00-548-3369	"
" -548-6636	5930	00-548-6636	" , Rotary
" -548-6641	5930	00-548-6641	" "
" -548-7764	5930	00-548-7764	" , Sensitive.

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5930-548-9025	5930	00-548-9025	Switch, Rotary.
" -549-0238	5930	00-549-0288	" , Tilt
" -552-1129	5930	00-552-1129	" , Rotary.
" -552-8935	5930	00-552-8935	" "
" -552-9049	5930	00-552-9049	" "
" -553-3774	5930	00-553-3774	" "
" -553-5382	5930	00-553-5382	" "
" -556-2192	5930	00-556-2192	" "
" -556-2193	5930	00-556-2193	" "
" -556-2897	5930	00-556-2897	" Toggle 4 P.S.F
" -566-8809	5930	00-566-8809	" Assembly.
" -578-9818	5930	00-578-9818	" Rotary
" -615-1726	5930	00-615-1726	" , Thermostat S402 GSM.
" -630-1495	5930	00-630-1495	Switch
" -636-0036	5930	00-636-0036	" , S.P.D.T.
" -636-1584	5930	00-636-1584	" , Push.
" -636-2286	5930	00-636-2286	" , Toggle.
" -636-3179	5930	00-636-3179	" , Limit 5-606 GSM.
" -644-3222	5930	00-644-3222	" , Assembly.
" -644-7748	5930	00-644-7748	" , Type 20R5.
" -655-1508	5930	00-655-1508	" , Toggle.
" -655-1514	5930	00-655-1514	" "
" -655-1522	5930	00-655-1522	" , Toggle.
" -655-1575	5930	00-655-1575	" , Rotary.
" -655-1582	5930	00-655-1582	" , Toggle
" -655-1923	5930	00-655-1923	" "
" -666-0940	5930	00-666-0940	Thermostat S-502 GSM.

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5930-669-6867	5930	00-669-6867	Switch Rotary
" -733-5890	5930	00-733-5890	Insulator Bead
" -784-4379	5930	00-784-4379	Switch Rotary
" -790-4889	5930	00-790-4889	" Thermostatic
" -877-3181	5930	00-877-3181	" "
5935-049-8651	5935	00-049-8651	Socket Valve 14 Contact
" -049-8763	5935	00-049-8763	Contact Pin E454 G.S.M.
" -057-3068	5935	00-057-3068	Connector Female
" -091-9547	5935	00-091-9547	" Sheet
" -129-3081	5935	00-129-3081	Socket Valve 4 Contact
" -149-3245	5935	00-149-3245	Connector Female Contact
" -149-3483	5935	00-149-3483	" Receptacle
" -149-3885	5935	00-149-3885	Connector UG23B/U
" -149-3914	5935	00-149-3914	Adaptor Connector UG255/U
" -149-4066	5935	00-149-4066	Connector Plug
" -160-1364	5935	00-160-1364	Socket Tube
" -160-1365	5935	00-160-1365	" "
" -161-8690	5935	00-161-8690	" " Octal
" -161-8698	5935	00-161-8698	" " "
" -161-7986	5935	00-161-7986	Connector Power
" -171-3016	5935	00-171-3016	Adaptor UG306/U
" -171-3017	5935	00-171-3017	" UG202/U
" -173-5895	5935	00-173-5895	Connector Plug
" -173-5908	5935	00-173-5908	" "
" -173-7811	5935	00-173-7811	" Receptacle
" -189-2962	5935	00-189-2962	" "
" -189-4908	5935	00-189-4908	Cap and Chain
" -189-5222	5935	00-189-5222	Connector
" -189-6245	5935	00-189-6245	" "

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5935-192-4529	5935	00-192-4529 Connector, Brass
" -192-4789	5935	00-192-4789 Jack Telephone
" -201-2353	5935	00-201-2353 Connector Receptacle
" -201-2630	5935	00-201-2630 Socket, Valve, Octal
" -201-2725	5935	00-201-2725 Connector
" -201-2774	5935	00-201-2774 "
" -201-3198	5935	00-201-3198 Socket
" -201-3216	5935	00-201-3216 Plug
" -201-3511	5935	00-201-3511 Connector
" -201-3942	5935	00-201-3942 " Electrical
" -201-4059	5935	00-201-4059 "
" -201-4069	5935	00-201-4069 "
" -201-5983	5935	00-201-5983 "
" -201-6013	5935	00-201-6013 Socket
" -201-6511	5935	00-201-6511 Connector
" -201-6655	5935	00-201-6655 "
" -201-7043	5935	00-201-7043 "
" -201-7044	5935	00-201-7044 "
" -201-8476	5935	00-201-8476 Cover
" -201-8529	5935	00-201-8529 Socket
" -204-5831	5935	00-204-5831 Connector
" -204-6089	5935	00-204-6089 "
" -204-7417	5935	00-204-7417 Holder
" -204-7418	5935	00-204-7418 Mounting
" -204-8382	5935	00-204-8382 Angle Adaptor
" -220-9837	5935	00-220-9837 Socket Valve
" -222-6433	5935	00-222-6433 "
" -222-9741	5935	00-222-9741 " "
" -222-9823	5935	00-222-9823 "
" -222-9828	5935	00-222-9828 "

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5935-222-9932	5935	00-222-9932 SOCKET
" -222-9938	5935	00-222-9938 "
" -224-0920	5935	00-222-0920 Connector
" -227-7755	5935	00-227-7755 Socket
" -231-5054	5935	00-231-5054 Plug
" -232-3719	5935	00-232-3719 Socket
" -232-3758	5935	00-232-3758 "
" -236-9427	5935	00-236-9427 Jack Telephone
" -237-6444	5935	00-237-6444 Socket
" -241-1979	5935	00-241-1979 Connector
" -244-5728	5935	00-244-5728 "
" -248-2375	5935	00-248-2375 Cable Clamp
" -254-9192	5935	00-254-9192 Jack Telephone
" -257-7044	5935	00-257-7044 " Tip
" -257-7046	5935	00-257-7046 " "
" -257-7324	5935	00-257-7324 Connector
" -257-9397	5935	00-257-9397 "
" -258-0373	5935	00-258-0373 Socket
" -258-0604	5935	00-258-0604 Clamp
" -258-1470	5935	00-258-1470 Socket
" -258-1763	5935	00-258-1763 Adaptor
" -258-4422	5935	00-258-4422 Connector
" -258-4598	5935	00-258-4598 "
" -258-5811	5935	00-258-5811 "
" -258-8129	5935	00-258-8129 "
" -259-0594	5935	00-259-0594 "
" -259-0802	5935	00-259-0802 "
" -259-1756	5935	00-259-1756 Jack Tip
" -259-1944	5935	00-259-1944 Socket Valve
" -259-1995	5935	00-259-1995 Connector

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5935-259-2563	5935	00-259-2563 Cap and Chain Assembly
" -259-2748	5935	00-259-2748 Connector
" -259-3151	5935	00-259-3151 "
" -259-3318	5935	00-259-3318 "
" -259-3948	5935	00-259-3948 "
" -259-3995	5935	00-259-3995 Socket
" -259-5991	5935	00-259-5991 Connector
" -259-5996	5935	00-259-5996 "
" -280-1935	5935	00-280-1935 Clamp Cable
" -280-2200	5935	00-280-2200 " "
" -280-2778	5935	00-280-2778 Socket
" -280-2852	5935	00-280-2852 "
" -280-2957	5935	00-280-2957 Connector
" -283-3402	5935	00-283-3402 Clamp
" -283-1269	5935	00-283-1269 Jack Telephone
" -283-3826	5935	00-283-3826 Connector
" -283-7076	5935	00-283-7076 Cover
" -295-5006	5935	00-295-5006 Connector
" -295-6556	5935	00-295-6556 "
" -295-6950	5935	00-295-6950 "
" -296-8830	5935	00-296-8830 Socket
" -299-7815	5935	00-299-7815 Connector
" -312-0048	5935	00-312-0048 "
" -312-0633	5935	00-312-0633 Contact Assembly
" -312-0634	5935	00-312-0634 Connector
" -312-0641	5935	00-312-0641 "
" -313-8690	5935	00-313-8690 Socket
" -316-9511	5935	00-316-9511 Connector
" -341-3128	5935	00-341-3128 "

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5935-504-4056	5935	00-504-4056 Adaptor
" -505-4222	5935	00-505-4222 Connector
" -526-0539	5935	00-526-0539 "
" -539-0851	5935	00-539-0851 "
" -539-2650	5935	00-539-2650 "
" -549-1699	5935	00-549-1699 "
" -549-2983	5935	00-549-2983 Cover
" -549-3316	5935	00-549-3316 Socket
" -549-6306	5935	00-549-6306 Connector
" -549-9901	5935	00-549-9901 Socket
" -552-7613	5935	00-552-7613 Jack Tip
" -552-7660	5935	00-552-7660 Connector
" -553-2905	5935	00-553-2905 Socket
" -553-3092	5935	00-553-3092 Connector
" -553-3093	5935	00-553-3093 "
" -553-3362	5935	00-553-3362 "
" -557-1282	5935	00-557-1282 "
" -568-1047	5935	00-568-1047 Cover
" -577-0314	5935	00-577-0314 Connector
" -577-8734	5935	00-577-8734 "
" -577-8779	5935	00-577-8779 "
" -578-2957	5935	00-578-2957 "
" -578-3068	5935	00-578-3068 "
" -578-3721	5935	00-578-3721 "
" -581-6400	5935	00-581-6400 Socket Valve
" -581-7962	5935	00-581-7962 Connector
" -583-6952	5935	00-583-6952 Clamp Cable
" -602-8978	5935	00-602-8978 Connector
" -615-1720	5935	00-615-1720 Jack, Telephone
" -615-7017	5935	00-615-7017 Connector

Old Identification No. New Identification No.

Old Identification No.	Group Class	Catalogue No.	Item Name
5935-636-5804	5935	00-636-5804	Connector
" -636-7145	5935	00-636-7145	"
" -636-8290	5935	00-636-8290	"
" -636-8328	5935	00-636-8328	"
" -643-6352	5935	00-643-6352	Covar
" -643-9238	5935	00-643-9238	Socket Valve
" -644-6616	5935	00-644-6616	Connector
" -644-7063	5935	00-644-7063	"
" -665-4681	5935	00-665-4681	"
" -665-6542	5935	00-665-6542	Power Cable
" -666-1334	5935	00-666-1334	Connector
" -666-1536	5935	00-666-1536	"
" -666-1580	5935	00-666-1580	Socket Valve
" -666-1590	5935	00-666-1590	Crystal
" -666-1649	5935	00-666-1649	Adaptor
" -676-3445	5935	00-676-3445	Assembly Cable
" -681-5685	5935	00-681-5685	Connector
" -682-0589	5935	00-682-0589	Connector
" -683-2402	5935	00-683-2402	"
" -683-2746	5935	00-683-2746	Jack Telephone
" -683-7002	5935	00-683-7892	Adaptor
" -686-0361	5935	00-686-0361	Connector
" -686-0439	5935	00-686-0439	"
" -693-1166	5935	00-693-1166	"
" -693-5804	5935	00-693-5804	"
" -726-0708	5935	00-727-0708	"
" -752-2792	5935	00-752-2792	"
" -752-2824	5935	00-752-2824	"
" -755-3688	5935	00-755-3688	"
" -784-0922	5935	00-784-0922	Socket Tube

OLD IDENTIFICATION NO. NEW IDENTIFICATION NO.

Old Identification No.	Group Class	Catalogue No.	Item Name
5935-784-3146	5935	00-784-3146	Socket Tube
" -803-7660	5935	00-803-7660	" "
" -805-3286	5935	00-805-3286	Connector
" -807-3895	5935	00-807-3895	Adaptor
" -821-0345	5935	00-821-0345	Connector
" -823-0213	5935	00-823-0213	"
" -823-0487	5935	00-823-0487	"
" -834-2577	5935	00-834-2577	"
" -841-7102	5935	00-841-7102	Socket Tube
" -843-7362	5935	00-843-7362	Connector
" -847-2600	5935	00-847-2600	Adaptor
" -848-7362	5935	00-848-7362	Connector
" -940-1095	5935	00-940-1095	"
" -951-1441	5935	00-951-1441	Socket Tube
5940-049-8896	5940	00-049-8896	Post Binding
" -109-2597	5940	00-109-2597	Board Terminal
" -151-4028	5940	00-151-4028	Clip Electron Tube
" -159-0209	5940	00-159-0209	Terminal Stud
" -151-4031	5940	00-151-4031	Slip Electron Tube
" -159-0223	5940	00-159-0223	Terminal Lug
" -171-0177	5940	00-171-0177	Board Terminal
" -171-0395	5940	00-171-0395	" "
" -171-0461	5940	00-171-0461	" "
" -171-0463	5940	00-171-0463	" "
" -171-0580	5940	00-171-0580	" "
" -171-0914	5940	00-171-0914	" "
" -177-1791	5940	00-177-1791	Clip Electrical
" -178-0257	5940	00-178-0257	Board Terminal
" -186-8951	5940	00-186-8951	Clip
" -204-6916	5940	00-204-6916	Terminal Board

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5940-204-6921	5940	00-204-6921	Terminal Board
" -204-6924	5940	00-204-6924	" "
" -204-7973	5940	00-204-7973	" "
" -223-4216	5940	00-223-4216	Cap Fuseholder
" -223-4822	5940	00-223-4822	Terminal Board
" -224-5629	5940	00-224-5629	" "
" -233-7152	5940	00-233-7152	" "
" -234-5735	5940	00-234-5735	" "
" -242-8479	5940	00-242-8479	Cap
" -242-8511	5940	00-242-8511	"
" -258-5187	5940	00-258-5187	Terminal
" -259-4874	5940	00-259-4874	" Board
" -259-9051	5940	00-259-9051	Socket
" -269-8064	5940	00-269-8064	Terminal
" -272-4413	5940	00-272-4413	"
" -272-4429	5940	00-272-4429	" Board
" -272-4430	5940	00-272-4430	" "
" -272-4434	5940	00-272-4434	"
" -283-3455	5940	00-283-3455	" "
" -311-9439	5940	00-311-9439	" "
" -549-2905	5940	00-549-2905	Insulator
" -549-6215	5940	00-549-6215	Terminal
" -642-2640	5940	00-642-2640	"
" -643-5007	5940	00-643-5007	"
" -645-1946	5940	00-645-1946	"
" -666-0865	5940	00-666-0865	" Board
" -666-0873	5940	00-666-0873	" "
5945-201-6294	5945	00-201-6294	Relay
" -201-7198	5945	00-201-7198	"
" -204-6658	5945	00-204-6658	"

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5945-204-9767	5945	00-204-9767	Relay
" -204-9783	5945	00-204-9783	"
" -239-2413	5945	00-239-2413	"
" -252-5627	5945	00-252-5627	"
" -252-5629	5945	00-252-5629	"
" -258-0209	5945	00-258-0209	"
" -258-7282	5945	00-258-7282	"
" -259-0306	5945	00-259-0306	" Telephone
" -259-6644	5945	00-259-6644	"
" -295-6422	5945	00-295-6422	"
" -556-5932	5945	00-556-5932	"
" -606-2903	5945	00-606-2903	"
" -636-9179	5945	00-636-9179	"
" -642-5309	5945	00-642-5309	"
" -642-5310	5945	00-642-5310	"
" -643-9744	5945	00-643-9744	"
" -643-9751	5945	00-643-9751	"
" -643-9754	5945	00-643-9754	"
" -644-9270	5945	00-644-9270	"
" -666-1498	5945	00-666-1498	"
" -666-1504	5945	00-666-1504	"
" -788-3138	5945	00-788-3138	"
5950-049-8416	5950	00-049-8416	Coil RF.
" -049-8427	5950	00-049-8427	" "
" -049-8428	5950	00-049-8428	" "
" -049-8429	5950	00-049-8429	" "
" -049-8488	5950	00-049-8488	" "
" -049-8949	5950	00-049-8949	Transformer
" -049-8983	5950	00-049-8983	" Power
" -155-9473	5950	00-155-9473	Reactor Filter Choke

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5950-156-2142	5950	00-156-2142 Reactor Filter Choke
" -167-4015	5950	00-167-4015 Transformer Power
" -187-2674	5950	00-187-2674 " "
" -222-6314	5950	00-222-6314 " "
" -228-4773	5950	00-228-4773 Coil
" -228-4813	5950	00-228-4813 " "
" -228-7339	5950	00-228-7339 " "
" -228-7543	5950	00-228-7543 " "
" -228-8720	5950	00-228-8720 " "
" -229-5129	5950	00-229-5129 Transformer
" -245-0780	5950	00-245-0780 Coil
" -245-2780	5950	00-245-2780 " "
" -249-2566	5950	00-249-2566 Choke Coil
" -253-7327	5950	00-253-7327 Network
" -280-5564	5950	00-280-5564 Reactor
" -280-5572	5950	00-280-5572 Transformer
" -295-7337	5950	00-295-7337 " "
" -295-8200	5950	00-295-8200 Coil
" -295-8406	5950	00-295-8406 " "
" -295-8529	5950	00-295-8529 " "
" -295-1310	5950	00-295-1310 Choke
" -296-5505	5950	00-296-5505 Reactor
" -309-5640	5950	00-309-5640 Core Adjustable
" -312-0638	5950	00-312-0638 " "
" -312-0645	5950	00-312-0645 " "
" -324-2038	5950	00-324-2038 Mounting
" -337-9607	5950	00-337-9607 Transformer
" -339-2017	5950	00-339-2017 Core Adjustable
" -339-2021	5950	00-339-2021 " "

Old Identification No. New Identification No.

Group Class	Catalogue No.	Item Name
5950-345-8257	5950	00-345-8257 Coil
" -387-0489	5950	00-387-0489 " RF.
" -387-1566	5950	00-387-1566 " "
" -504-6321	5950	00-504-6321 " "
" -504-6500	5950	00-504-6500 Indicator
" -504-6505	5950	00-504-6505 Transformer
" -504-6510	5950	00-504-6510 Coil RF.
" -508-1874	5950	00-508-1874 " "
" -510-9835	5950	00-510-9835 " "
" -519-4076	5950	00-519-4076 Transformer
" -519-8769	5950	00-519-8769 Coil
" -519-9845	5950	00-519-9845 Transformer
" -520-6636	5950	00-520-6636 Assembly
" -538-2935	5950	00-538-2935 Indicator Power
" -543-0102	5950	00-543-0102 Reactor
" -544-3558	5950	00-544-3558 Coil Assembly
" -544-3559	5950	00-544-3559 " "
" -544-3560	5950	00-544-3560 " "
" -552-0125	5950	00-552-0125 " Tuning
" -552-0126	5950	00-552-0126 " "
" -552-0127	5950	00-552-0127 " "
" -552-0923	5950	00-552-0923 " "
" -552-0924	5950	00-552-0924 " "
" -552-9147	5950	00-552-9147 Transformer
" -552-9148	5950	00-552-9148 " "
" -556-2185	5950	00-556-2185 Reactor
" -557-6821	5950	00-557-6821 Transformer
" -557-6822	5950	00-557-6822 " "
" -557-6847	5950	00-557-6847 Reactor
" -566-4802	5950	00-566-4802 Coil Blocking

Old Identification No. New Identification No.

Old Identification No.	Group Class	Catalogue No.	Item Name
5950-568-1545	5950	00-568-1545	Coil RF.
" -568-2099	5950	00-568-2099	Transformer
" -569-0463	5950	00-569-0463	Coil
" -578-1060	5950	00-578-1060	"
" -578-1999	5950	00-578-1999	"
" -578-5717	5950	00-578-5717	Transformer
" -578-8000	5950	00-578-8000	Coil
" -578-8006	5950	00-578-8006	"
" -615-4252	5950	00-615-4252	Reactor
" -630-3607	5950	00-630-3607	Transformer
" -645-0004	5950	00-645-0004	"
" -645-0005	5950	00-645-0005	"
" -645-0108	5950	00-645-0108	Coil RF.
" -645-0127	5950	00-645-0127	Transformer
" -645-0231	5950	00-645-0231	"
" -645-0179	5950	00-645-0179	Coil RF.
" -645-0243	5950	00-645-0243	Transformer
" -645-0307	5950	00-645-0307	Coil RF.
" -645-0308	5950	00-645-0308	" "
" -645-0316	5950	00-645-0316	" "
" -645-0341	5950	00-645-0341	" "
" -645-0422	5950	00-645-0422	" "
" -645-0423	5950	00-645-0423	" "
" -645-0429	5950	00-645-0429	" "
" -645-0432	5950	00-645-0432	" "
" -645-0463	5950	00-645-0463	Core
" -645-0647	5950	00-645-0647	Transformer
" -645-0675	5950	00-645-0675	"
" -645-0892	5950	00-645-0892	"

Old Identification No. New Identification No.

Old Identification No.	Group Class	Catalogue No.	Item Name
5950-645-1070	5950	00-645-1070	Transformer
" -645-1071	5950	00-645-1071	"
" -645-1261	5950	00-645-1261	Coil
" -645-1557	5950	00-645-1557	Transformer
" -645-1567	5950	00-645-1567	"
" -645-1849	5950	00-645-1849	"
" -645-1871	5950	00-645-1871	"
" -645-1926	5950	00-645-1926	"
" -645-1946	5950	00-645-1946	"
" -645-2398	5950	00-645-2398	Coil RF.
" -645-2463	5950	00-645-2463	" "
" -645-2480	5950	00-645-2480	" "
" -645-2532	5950	00-645-2532	" "
" -645-2540	5950	00-645-2540	" "
" -645-2569	5950	00-645-2569	" "
" -645-2599	5950	00-645-2599	" "
" -645-2658	5950	00-645-2658	" "
" -645-3013	5950	00-645-3013	" "
" -645-3941	5950	00-645-3941	Transformer
" -645-4423	5950	00-645-4423	Coil
" -645-4806	5950	00-645-4806	" RF.
" -645-6462	5950	00-645-6462	" "
" -645-7216	5950	00-645-7216	Transformer
" -645-7561	5950	00-645-7561	Coil RF.
" -645-7766	5950	00-645-7766	Transformer
" -645-9192	5950	00-645-9192	Coil RF.
" -647-5040	5950	00-647-5040	Transformer
" -647-5048	5950	00-647-5048	"
" -647-5114	5950	00-647-5114	Coil RF.

Old Identification No.

New Identification No.

Old Identification No.	New Identification No.	Group Class Catalogue No.	Item Name
5950-647-5259	5950	00-647-5259	Transformer
" -647-5548	5950	00-647-5548	Coil
" -647-5825	5950	00-647-5825	Transformer
" -647-6428	5950	00-647-6428	Choke
" -647-6539	5950	00-647-6539	Reactor
" -647-6612	5950	00-647-6612	Choke
" -647-6660	5950	00-647-6660	"
" -647-6690	5950	00-647-6690	Transformer
" -647-6716	5950	00-647-6716	"
" -647-6749	5950	00-647-6749	"
" -647-6758	5950	00-647-6758	"
" -647-6998	5950	00-647-6998	"
" -647-7238	5950	00-647-7238	Transformer
" -647-7899	5950	00-647-7899	"
" -647-8372	5950	00-647-8372	"
" -647-8375	5950	00-647-8375	"
" -647-8401	5950	00-647-8401	Core
" -647-8542	5950	00-647-8542	Transformer
" -647-8954	5950	00-647-8954	Filter
" -647-8967	5950	00-647-8967	Coil
" -647-8974	5950	00-647-8974	"
" -647-9008	5950	00-647-9008	"
" -647-9149	5950	00-647-9149	"
" -647-9150	5950	00-647-9150	"
" -647-9185	5950	00-647-9185	"
" -647-9259	5950	00-647-9259	"
" -647-9260	5950	00-647-9260	"
" -647-9261	5950	00-647-9261	"
" -647-9288	5950	00-647-9288	"
" -647-9291	5950	00-647-9291	"

Old Identification No.

New Identification No.

Old Identification No.	New Identification No.	Group Class Catalogue No.	Item Name
5950-647-9493	5950	00-647-9493	Transformer
" -647-9515	5950	00-647-9515	Coil
" -647-9576	5950	00-647-9576	"
" -647-9577	5950	00-647-9577	"
" -647-9609	5950	00-647-9609	"
" -647-9629	5950	00-647-9629	"
" -647-9713	5950	00-647-9713	"
" -647-9858	5950	00-647-9858	"
" -647-9897	5950	00-647-9897	"
" -647-9904	5950	00-647-9904	"
" -647-9928	5950	00-647-9928	"
" -647-9938	5950	00-647-9938	"
" -648-0065	5950	00-648-0065	"
" -648-0464	5950	00-648-0464	"
" -648-0706	5950	00-648-0706	"
" -648-0716	5950	00-648-0716	"
" -648-0921	5950	00-648-0921	Tuner
" -648-1238	5950	00-648-1238	Coil
" -648-1276	5950	00-648-1276	Transformer
" -648-2671	5950	00-648-2671	Coil
" -648-2672	5950	00-648-2672	Coil
" -648-2673	5950	00-648-2673	"
" -648-4462	5950	00-648-4462	"
" -677-4151	5950	00-677-4151	Transformer
" -681-6636	5950	00-681-6636	Coil
" -688-6048	5950	00-688-6048	"
" -692-7286	5950	00-692-7286	"
" -696-9109	5950	00-696-9109	Core
" -699-6018	5950	00-699-6018	Coil

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5950-699-6021	5950	00-699-6021	Coil
" -804-2764	5950	00-804-2764	Transformer
" -809-4071	5950	00-809-4071	Coil RF/
" -809-4072	5950	00-809-4072	" "
" -809-4075	5950	00-809-4075	" "
" -809-4076	5950	00-809-4076	" "
" -809-4077	5950	00-809-4077	" "
" -809-4459	5950	00-809-4459	" "
" -809-4797	5950	00-809-4797	Reactor
" -809-9354	5950	00-809-9354	"
" -810-0824	5950	00-810-0824	"
" -812-7923	5950	00-812-7923	Transformer
" -823-1209	5950	00-823-1209	Coil
" -824-7049	5950	00-824-7049	"
" -849-2794	5950	00-849-2794	Socket
" -894-0887	5950	00-894-0887	Transformer
5955-248-1591	5955	00-248-1591	Switch
5960-151-7562	5960	00-151-7562	Clamp
" -151-7568	5960	00-151-7568	Clip
" -151-7574	5960	00-151-7574	Clamp
" -151-7576	5960	00-151-7576	Tube
" -161-9346	5960	00-161-9346	Shield
" -188-1541	5960	00-188-1541	"
" -223-5970	5960	00-223-5970	Hat Retainer (No. 3)
" -249-4973	5960	00-249-4973	Clip Tube
" -262-0015	5960	00-262-0015	Shield Valve
" -262-0345	5960	00-262-0345	" "
" -262-0347	5960	00-262-0347	" Tube
" -264-3004	5960	00-264-3004	" Valve

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5960-265-7574	5960	00-265-7574	Hat Retainer (No. 1)
" -268-3200	5960	00-268-3200	" " (No. 5)
" -272-9094	5960	00-272-9094	Shield
" -273-2434	5960	00-273-2434	Hat Retainer (No. 2)
" -273-2450	5960	00-273-2450	Tube
" -284-4352	5960	00-284-4352	Shield
" -284-4831	5960	00-284-4831	"
" -284-7505	5960	00-284-7505	"
" -295-7652	5960	00-295-7652	"
" -295-7683	5960	00-295-7683	Tube
" -296-1214	5960	00-296-1214	Shield
" -296-3831	5960	00-296-3831	"
" -323-0019	5960	00-323-0019	Mounting
" -324-2038	5960	00-324-2038	"
" -325-3076	5960	00-325-3076	Retainer
" -340-2742	5960	00-340-2742	Shield
" -340-2744	5960	00-340-2744	"
" -340-2745	5960	00-340-2745	"
" -340-2746	5960	00-340-2746	"
" -340-2747	5960	00-340-2747	"
" -387-6212	5960	00-387-6212	Tube
" -521-9554	5960	00-521-9554	"
" -644-7892	5960	00-644-7892	Cap
" -669-8808	5960	00-669-8808	Shield
" -813-6762	5960	00-813-6762	Clamp Tube
" -978-7660	5960	00-978-7660	Rectifier
5965-242-4946	5965	00-242-4946	Head Set
5970-117-5220	5970	00-117-5220	Bushing
" -131-9155	5970	00-131-9155	Insulator
" -158-6386	5970	00-158-6386	Strip Mycalex $\frac{1}{4}$ "

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5970-280-9442	5970	00-280-9442	Insulator
" -296-3194	5970	00-296-3194	"
" -308-5305	5970	00-308-5305	"
" -318-7157	5970	00-318-7157	"
" -318-7158	5970	00-318-7158	"
" -501-1069	5970	00-501-1069	"
" -508-1743	5970	00-508-1743	"
" -636-2256	5970	00-636-2256	"
" -693-7427	5970	00-693-7427	"
" -894-4824	5970	00-894-4824	Shield
5975-040-2915	5975	00-040-2915	Contact
" -284-6507	5975	00-284-6507	Electrical Equipment
" -295-7001	5975	00-295-7001	" "
" -296-2273	5975	00-296-2273	Switch Boot
5977-173-6878	5977	00-173-6878	Assembly
" -284-6887	5977	00-284-6887	Brush and Arm Assembly
" -285-0431	5977	00-285-0431	Arm Brush
" -296-5938	5977	00-296-5938	Ground Brush
" -296-9868	5977	00-296-9868	Spring Contact
5985-049-8534	5977	00-049-8534	Pinion Generator
" -049-8546	5985	00-049-8546	" "
" -049-8662	5985	00-049-8662	Assembly Tube
" -161-5124	5985	00-161-5124	Adaptor
" -242-4567	5985	00-242-4567	"
" -257-5805	5985	00-257-5805	Attenuator
" -270-3151	5985	00-270-3151	Waveguide
" -289-1885	5985	00-289-1885	Heaten (UR-501)
" -295-8684	5985	00-295-8684	Antenna

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5985-295-8685	5985	00-295-8685	Antenna
" -296-1270	5985	00-296-1270	Adaptor
" -296-1383	5985	00-296-1383	Antenna
" -296-1748	5985	00-296-1748	Waveguide
" -296-1758	5985	00-296-1758	Assembly, Tube
" -296-2299	5985	00-296-2299	Relay Rotary
" -296-5569	5985	00-296-5569	Contact Assembly
" -308-5814	5985	00-308-5814	Shaft "
" -319-1184	5985	00-319-1184	" "
" -325-8674	5985	00-325-8674	Spring
" -329-8926	5985	00-329-8926	Amplifier
" -338-2915	5985	00-338-2915	Connector
" -369-5605	5985	00-369-5605	Antenna
" -501-4837	5985	00-501-4837	Fitting
" -507-9557	5985	00-507-9557	Antenna
" -508-5644	5985	00-508-5644	Feed Horn Assembly
" -510-0535	5985	00-510-0535	Ring "O"
" -519-4018	5985	00-519-4018	Electrical Dummy Load
" -543-1478	5985	00-543-1478	Field Change Kit
" -549-0374	5985	00-549-0374	Reflector Antenna
" -557-4547	5985	00-557-4547	Fixed Attenuator
" -636-4690	5985	00-636-4690	Dipole Assembly (E-401)
" -656-2369	5985	00-656-2369	Antenna
" -669-7375	5985	00-669-7375	Dipole Assembly
5990-049-8949	5990	00-049-8949	Transformer
" -268-9071	5990	00-268-9071	Synchro Control Transformer
" -314-3629	5990	00-314-3629	Hub
" -314-3630	5990	00-314-3630	" Shaft Assembly

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5990-501-0893	5990	00-50/-0893	Servo Motor (B401)
" -501-4326	5990	00-501-4326	Amplifier
" -507-1629	5990	00-507-1629	"
" -636-4122	5990	00-636-4122	Transmitter
" -636-4151	5990	00-636-4151	"
" -636-4152	5990	00-636-4152	"
" -644-3273	5990	00-644-3273	Goniometer
" -648-2910	5990	00-648-2910	Motor Synchro
" -669-8713	5990	00-669-8713	Resolver
5995-242-8507	5995	00-242-8507	Clip Electrical
" -568-2434	5995	00-568-2434	Conductor
" -636-1385	5995	00-636-1385	Coaxial Cable Assembly
" -636-1386	5995	00-636-1386	" " "
" -636-1387	5995	00-636-1387	" " "
" -636-1388	5995	00-636-1388	" " "
" -636-1389	5995	00-636-1389	" " "
" -636-1415	5995	00-636-1415	" " "
" -636-1416	5995	00-636-1416	" " "
" -636-1417	5995	00-636-1417	"
" -636-1560	5995	00-636-1560	"
" -636-1561	5995	00-636-1561	"
" -636-1562	5995	00-636-1562	"
" -636-2187	5995	00-636-2187	"
" -636-2188	5995	00-636-2188	"
" -636-3930	5995	00-636-3930	"
" -721-4524	5995	00-721-4524	Cable Assembly
5999-223-5928	5999	00-223-5928	Filter RF.
" -569-0050	5999	00-569-0050	Choke
" -752-3269	5999	00-752-3269	Coil RF.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5999-809-8580	5999	00-809-8580	Bead Manganese
6015-233-3150	6105	00-233-3150	Motor, AC, Reversible
" -252-3205	6105	00-252-3205	Coil, Main Pole (N30446)
" -307-1369	6105	00-307-1369	Motor, AC, Capacitor
" -312-3825	6105	00-312-3825	" " 1000 RFL
" -329-3108	6105	00-329-3108	" " Capacitor (Approx. 300 RPM)
" -349-6896	6105	00-349-6896	Motor, 60 o/a
" -541-4091	6105	00-541-4091	Fan, Vent, Prop.
" -542-6061	6105	00-542-6061	Blower
" -635-6821	6105	00-635-6821	Servo Motor (B501)
" -643-3744	6105	00-643-3744	Motor (B101)
" -694-5457	6105	00-694-5457	" (B301)
" -778-9967	6105	00-778-9967	Synchro Drive Assembly
6115-635-3655	6105	00-635-3655	Generator AC
" -643-1415	6105	00-643-1415	Inductron Generator (G502)
6130-049-8201	6105	00-049-8201	Power Supply
" -295-2221	6130	00-295-2221	Selenium Rectifier
" -312-8351	6130	00-312-8351	Rectifier
" -313-8299	6130	00-313-8299	" Metallic
" -500-3383	6130	00-500-3383	"
" -630-1494	6130	00-630-1494	"
" -635-8177	6130	00-635-8177	" Selenium
" -643-3537	6130	00-643-3537	" (CR-101)
" -643-3109	6130	00-643-3109	" (CR-105)
6145-161-0904	6145	00-161-0904	Cable RF
" -161-0909	6145	00-161-0909	" "
" -191-3659	6145	00-191-3659	" Electrical
6210-155-7857	6210	00-155-7857	Lamp, 6V, 0.2A
" -232-1468	6210	00-232-1468	Receptacle Pilot Lamp
6210-232-3610	6210	00-232-3610	Lamp Indicator
6210-233-5337	6210	00-233-5337	Indicator Assembly
6210-233-5321	6210	00-233-5321	Lampholder, Indicator
" -243-0056	6210	00-243-0056	Lens Indicator
" -247-1778	6210	00-247-1778	" "
" -270-9963	6210	00-270-9963	Cap for Indicator Light
" -295-1958	6210	00-295-1958	Pilot Lamp
" -299-4068	6210	00-299-4068	Socket Light

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
6210-299-4828	6210	00-299-4828	Lens Red
" - " -5448	6210	00-299-5448	Lamp Holder
" - " -6905	6210	00-299-6905	Light Indicator
" - " -7472	6210	00-299-7472	Retainer Lamp RH
" -325-3154	6210	00-325-3154	Light Indicator
" -351-4528	6210	00-351-4528	Socket Light
" -513-2593	6210	00-513-2593	Light Indicator
" - " -2603	6210	00-513-2603	" "
" -519-2541	6210	00-519-2541	Lens Indicator White
" -548-0072	6210	00-548-0072	Lamp, Holder
" - " -0123	6210	00-548-0123	" "
" -602-8882	6210	00-602-8882	Lens Light Indicator
" -694-1645	6210	00-694-1645	Socket
" -753-2270	6210	00-753-2270	Light
" " -2834	6210	00-753-2834	Lens
" -836-2564	6210	00-836-2564	Indicator Holder
" -837-8663	6210	00-836-8663	Socket Lampholder
6220-672-4190	6220	00-672-4190	Light Indicator
6240-155-7806	6240	00-155-7806	" Pilot 6.8V, 0-16A
" " -7836	6240	00-155-7836	Lamp 28V, 0-0.4 AMPS
" " 7847	6240	00-155-7847	" 6V, 0.12A
" " -7857	6240	00-155-7857	" " "
" " -8706	6240	00-155-8706	Lamp Indicator
" -179-1814	6240	00-179-1814	Lamp
" -223-9100	6240	00-253-9100	" Glow (HE51)
" -248-6506	6240	00-248-6506	"
" -295-1368	6240	00-295-1368	"
" -581-1598	6240	00-581-1598	" "
6250-179-1797	6250	00-179-1797	" Holder
" -299-4217	6250	00-299-4217	Socket Lamp Holder
" -324-2439	6250	00-324-2439	Retainer Clamp IH
6350-894-0891	6350	00-894-0891	Buzzer
6625-026-0216	6625	00-026-0216	Shield Cylinder
6625-031-0711	6625	00-031-0711	Contact
" - " -0712	6625	00-031-0712	"
" - " -0713	6625	00-031-0713	"
" - " -0717	6625	00-031-0717	Probe RF, Bolometer
" - " -0718	6625	00-031-0718	Cam Subassembly
" - " -0719	6625	00-031-0719	Contact Cavity Inner
" - " -0720	6625	00-031-0720	" " Outer
6240-299-5874	6240	00-299-5874	Lamp Glow .../43

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
6625-049-8890	6625	00-049-8890	Meter, 0-500
" -093-5909	6625	00-093-5909	Signal Generator
" -098-5560	6625	00-098-5560	Connector
" -166-1018	6625	00-166-1018	Probe, RF
" - " -1019	6625	00-166-1019	"
" -184-4366	6625	00-184-4366	Cable Assembly
" -188-5851	6625	00-188-5851	Crystal Rectifier
" -212-7397	6625	00-212-7397	Attenuator Assembly
" -233-4610	6625	00-233-4610	Meter Range
" -242-7822	6625	00-242-7822	Milliammeter
" -252-2713	6625	00-252-2713	Meter
" -304-7298	6625	00-304-7298	Drive, Power Set Control
" -305-2373	6625	00-305-2373	Sub Assembly
" -308-4644	6625	00-308-4644	R.F. Attenuator Subassembly
" -308-4645	6625	00-308-4645	Blow Centerfugal
" - " -4646	6625	00-308-4646	Sub Assembly
" - 309-3964	6625	00-309-3964	Case Cylindrical
" - 310-3882	6625	00-310-3882	Monitor Subassembly
" - 325-7579	6625	00-325-7579	Pin Probe
" - 332-6335	6625	00-332-6235	Contact Cavity
" - 334-8771	6625	00-334-8771	Eccentric Assembly
" - 444-5943	6625	00-444-5943	Dial Assembly
" - 501-1818	6625	00-501-1818	Test Adaptor
" - 503-6897	6625	00-503-6897	Power Cable
" - 504-1667	6625	00-504-1667	Test Prod
" -512-9624	6625	00-512-9624	Sub Assembly Tube Socket & Choke
" " -9975	6625	00-512-9975	Choke
" 519-7521	6625	00-519-7521	RF Couplet Detector
" 539-8614	6625	00-539-8614	Meter Panel
" " -9030	6625	00-539-9030	Sweep Generator
" 542-6376	6625	00-542-6376	Signal
" 644-3593	6625	00-544-3593	Attenuator Assembly
" 544-3604	6625	00-544-3604	Transducer "
" 553-0671	6625	000-553-0671	Gear Drive Assembly
" " -7382	6625	00-553-7382	Signal Generator
" " -7386	6625	00-553-7386	" "
6625-548-0422	6625	00-548-0422	Transducer Assembly .../44

Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
6625-556-2587	6625	00-556-2587	Signal Generator
" 556-1916	6625	00-556-1916	Frequency Meter
" 578-5748	6625	00-578-5748	Meter Micrometer
" 592-5742	6625	00-592-5742	Signal Generator
" 610-2060	6625	00-610-2060	" "
" 610-2233	6625	00-610-2233	" "
" 616-2380	6625	00-616-2380	" "
" 635-4134	6625	00-635-4134	Meter Ammeter
" 636-1628	6625	00-636-1628	Fitter Light
" 642-5589	6625	00-642-5589	Contact Assembly
" 643-0584	6625	00-643-0584	Voltmeter
" " -2927	6625	00-643-2927	Meter Micrometer
" " -8520	6625	00-643-8520	Cavity Assembly
" " -8564	6625	00-643-8564	Test Set w/ Case
" 649-1632	6625	00-649-1632	Meter Ammeter
" 649-3074	6625	00-649-3074	Meter Power Level
" 652-1233	6625	00-652-1233	Knob for Switches
" 665-2587	6625	00-665-2587	Syndal Generator
" 669-1215	6625	00-669-1215	Crystal Rectifier Test Set
1560-156-9160	1560	00-156-9160	Bracket
3010-294-5782	3010	00-294-5782	Coupling Flexible
5305-324-9324	5305	00-324-9324	Screw
5306-209-4226	5306	00-209-4226	" Thumb
5313-390-7935	5313	00-390-7935	Pin
5330-171-9953	5330	00-171-9953	Gasket
5340-291-6160	5340	00-291-6160	Mount Vibration
5340-305-7662	5340	00-305-7662	Insulator Bushing
5340-313-2927	5340	00-313-2927	Spring
5340-596-7512	5340	00-598-7512	Ring Retainer
5355-644-1499	5355	00-644-1499	Knob
5805-073-6015	5805	00-073-6105	Comparator Signal
" -226-2918	5805	00-226-2918	Demultiplexer
" " 4674	5805	00-226-4674	Keyer Frequency
" 689-6063	5805	00-689-6063	Amplifier Audio Frequency
5805-689-6067	5805	00-689-6067	Power Supply
5805-781-7490	5805	00-781-7490	Converter Frequency Shaft
5805-863-9653	5805	00-863-9653	Multiplexer

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Old Identification No.	New Identification No.		
	Group Class	Catalogue No.	Item Name
5815-312-0918	5815	00-312-0918	Clamp Assembly
5820-964-9675	5820	00-964-9675	Receiver Radio
5825-803-3187	5825	00-803-3187	" Loran
5895-319-1184	5895	00-319-1184	Shaft Assembly
5910-568-1688	5910	00-568-1688	Clamp Electrolytic
5915-042-7030	5915	00-042-7030	Filter
" -084-6103	5915	00-084-6103	Network
" -084-9170	5915	00-084-9170	Network
" -156-1966	5915	00-156-1966	Filter
" -563-7040	5915	00-563-7040	Network
" " -7042	5915	00-563-7042	"
" " -7046	5915	00-563-7046	"
" " -7054	5915	00-563-7054	"
" " -7056	5915	00-563-7056	"
" " -7058	5915	00-563-7058	"
" -572-2153	5915	00-572-2153	"
" " -2162	5915	00-572-2162	"
" " -2165	5915	00-572-2165	"
" " -2169	5915	00-572-2169	"
" " -2174	5915	00-572-2174	"
" " -2179	5915	00-572-2179	"
" " -2183	5915	00-572-2183	"
" " -2185	5915	00-572-2185	"
" " -2190	5915	00-572-2190	"
" -573-1603	5915	00-573-1603	"
" " 1605	5915	00-573-1605	"
" " 1608	5915	00-573-1608	"
" " 1609	5915	00-573-1609	"
" " 1610	5915	00-573-1610	"
" " 6019	5915	00-573-6019	"
" " 6064	5915	00-573-6064	"
" " 6110	5915	00-573-6110	"
" " 6113	5915	00-573-6113	"
" 645-8451	5915	00-645-8451	Suppressor
" 706-8243	5915	00-706-8243	Network
" 713-4801	5915	00-713-4801	Filter
" " -4835	5915	00-713-4835	"
" " -4845	5915	00-713-4845	"

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46.

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5915-713-4867	5915	00-713-4867	Filter
" " -4874	5915	00-713-4874	"
" " -4878	5915	00-713-4878	"
" " -4884	5915	00-713-4884	"
" " -4889	5915	00-713-4889	"
" " -4891	5915	00-713-4891	"
" " -4892	5915	00-713-4892	"
" " -4921	5915	00-713-4921	"
" " -4983	5915	00-713-4983	"
" " -4984	5915	00-713-4984	"
" 838-2418	5915	00-838-2418	"
" " -2419	5915	00-838-2419	"
" " -2420	5915	00-838-2420	"
" " -2422	5915	00-838-2422	"
" " -2424	5915	00-838-2424	"
" " -2425	5915	00-838-2425	"
" " -2426	5915	00-838-2426	"
" " -2427	5915	00-838-2427	"
" " -2428	5915	00-838-2428	"
" " -2429	5915	00-838-2429	"
" " -3070	5915	00-838-3070	"
" " -5919	5915	00-838-5919	"
" 954-5959	5915	00-954-5959	"
5920-296-0451	5920	00-296-0451	Fuse Cartridge
" -660-6705	5920	00-660-6705	Fuse Holder
" -855-4260	5920	00-855-4260	" Cartridge
5930-188-1060	5930	00-188-1060	Switch
" 548-9059	5930	00-548-9059	" Assembly
" 556-9352	5930	00-556-9352	" Rotary
" 604-7899	5930	00-604-7899	" Wafer
" 615-7896	5930	00-615-7896	" Toggle
" 617-9935	5930	00-617-9935	" "
" 655-1507	5930	00-655-1507	" "
" 681-6699	5930	00-681-6699	" Wafer
" 829-8722	5930	00-829-8722	" Rotary
5935-160-1361	5935	00-160-1361	Socket Crystal
" 161-8684	5935	00-161-8684	" "
" 187-5225	5935	00-187-5225	Connector
" 201-9490	5935	00-201-9490	Pin Jack
" 204-6078	5935	00-204-6078	" "

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47.

Old Identification	New Identification No.		Item Name
	Group Class	Catalogue No.	
5935-223-0574	5935	00-223-0574	Socket Clamp
" 234-2086	5935	00-234-2086	Jack, Telephone
" 237-3964	5935	00-257-3964	Connector, Receptacle
" 242-4988	5935	00-242-4988	Socket
" 248-9496	5935	00-248-9496	Adaptor Coaxial
" 256-8693	5935	00-256-8693	Socket Crystal
" 259-0238	5935	00-259-0238	Cap Connector
" 280-1937	5935	00-280-1937	Socket Clamp
" 280-2353	5935	00-280-2353	Clamp Electric
" 283-2908	5935	00-283-2908	Connector
" 292-3123	5935	00-292-3123	Gasket
" 312-7985	5935	00-312-7985	Connector
" 552-6842	5935	00-552-6842	Jack Tip
" 553-2482	5935	00-553-2482	Connector
" 577-2336	5935	00-577-2336	"
" 578-3381	5935	00-578-3381	"
" 581-4558	5935	00-581-4558	Cap and Chain
" 581-6941	5935	00-581-6941	Socket
" 664-6741	5935	00-664-6741	Connection
" 665-4005	5935	00-665-4005	Connector
" " 4406	5935	00-665-4406	"
" " 4931	5935	00-665-4931	Cover
" 683-6026	5935	00-683-6026	Connector
" 685-9396	5935	00-685-9396	Jack Tip
" 687-0848	5935	00-687-0848	Connector
" " -0856	5935	00-687-0856	Connector Receptacle
" 724-3775	5935	00-724-3775	"
" 810-3767	5935	00-810-3767	" "
" 816-7795	5935	00-816-7795	"
" 818-5665	5935	00-818-5665	"
" 823-0057	5935	00-823-0057	"
" 823-0123	5935	00-823-0123	"
" 825-2906	5935	00-825-2906	" Plug
" 850-2247	5935	00-850-2247	Pin Jack
" 892-8804	5935	00-892-8804	Tip Jack
5940-159-0249	5940	00-159-0249	Terminal Stud
" " 0250	5940	00-159-0250	" "
" " 0251	5940	00-159-0251	" "
5940-178-0894	5940	00-178-0894	Clip Fuse
" 518-9611	5940	00-518-9611	Terminal Board

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Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5935-539-2172	5940	00-539-2172	Terminal Stud
" 553-2471	5940	00-553-2471	" "
" 578-3484	5940	00-578-3484	" "
" 581-6401	5940	00-581-6401	Terminal Feed Through
" 983-6105	5940	00-983-6105	Terminal Board
5945-823-2701	5940	00-823-2701	Relay
" 843-4479	5945	00-843-4479	" Arm
" 865-3693	5945	00-865-3693	" Sigma
5950-051-3862	5950	00-051-3862	Transformer
" 508-1864	5950	00-508-1864	Coil Choke Filter
" 556-0611	5950	00-556-0611	Transformer
" 581-8933	5950	00-581-8933	Coil
" 645-1943	5950	00-645-1943	Transformer A.F.
" 648-1278	5950	00-648-1278	"
" 657-8167	5950	00-657-8167	Coil R.F.
" 702-4465	5950	00-702-4465	Transformer HSM230
" 771-4882	5950	00-771-4882	Coil RF 1537-24
" 783-1418	5950	00-788-1418	" " " 34
" 807-3424	5950	00-807-3424	" " " 10
" " 6050	5950	00-807-6050	" " " 38
" 835-1513	5950	00-835-1513	" " " 16
" 837-6029	5950	00-837-6029	" " " 28
" 893-0434	5950	00-893-0434	" " " 76
5960-194-9408	5960	00-194-9408	Crystal Unit
" 686-8087	5960	00-686-8087	Shield Tube
5950-606-5816	5950	00-606-5816	Transformer Power
" " 5817	5950	00-606-5817	" "
" " 9402	5950	00-606-9402	Inductor
" 680-4614	5950	00-660-4614	Transformer
" 721-1895	5950	00-721-1895	Inductor
" 767-8236	5950-	00-767-8236	Transformer
" 836-3348	5950	00-836-3348	"
" " -3349	5950	00-836-3349	"
" " -7297	5950	00-836-7297	"
5960-686-8119	5960	00-686-8119	Shield Tube
" 729-8150	5960	00-729-8150	" "
" 849-4335	5960	00-849-4335	Shield
5970-265-6155	5970	00-265-6155	Washer Insulation

Old Identification No.	New Identification No.		Item Name
	Group Class	Catalogue No.	
5970-280-4981	5970	00-280-4981	Washer
5985-295-7108	5985	00-295-7108	Transformer Assembly
" 504-8506	5985	00-504-8506	Switch
" 505-4163	5985	00-505-4163	Transformer "
5990-557-3672	5990	00-557-3672	Goniometer
" 644-3364	5990	00-644-3364	"
6125-049-8813	6125	00-049-8813	Gear
6130-311-5696	6130	00-311-5696	Rectifier Metallo
6145-161-4601	6145	00-161-4601	Cable
" -299-7023	6145	00-299-7023	"
" -661-0191	6145	00-661-0191	"
6210-231-4652	6210	00-231-4652	Lampholder
" -264-7015	6210	00-264-7015	"
" -299-4788	6210	00-299-4788	Light Indicator
" -553-1711	6210	00-553-1711	" Panel
" -583-3329	6210	00-583-3329	Neon Holder
" -617-0691	6210	00-617-0691	Socket Pilot Light
" -686-4275	6210	00-686-4275	" " "
" -696-5022	6210	00-696-5022	Light
6240-057-2887	6240	00-057-2887	Lamp
6625-269-2646	6625	00-269-2646	Meter
" " 2647	6625	00-269-2647	"
" " 3434	6625	00-269-3434	"
" 304-7290	6625	00-304-7290	Shield
" 544-3578	6625	00-544-3578	Contact
" 578-5748	6625	00-578-5748	Meter
" 608-6254	6625	00-608-6254	Plate Capacitor
" 879-9406	6625	00-879-9406	Meter
6720-337-9990	6720	00-337-9990	Card Data
" 543-7793	6720	00-543-7793	Camera

APPENDIX 'B'

Old Identification 0623	New Identification		
	Group Class	Catalogue No.	Item Name
L.11020	5825	00-L.11020	Cable Assembly
L.11021		00-L.11021	Insulator "
L.11022		00-L.11022	Cable Loop "
L.11023		00-L.11023	Loop Cam "
L.11024		00-L.11024	Oscillator Cam "
L.11025		00-L.11025	Aerial Loop
L.11028		00-L.11028	Antenna "
L.11029		00-L.11029	Ground Plane Antenna
L.11058	5985	00-L.11058	Aerial Assembly
L.11059		00-L.11059	Contact Arm "
L.11067	5820	00-L.11067	Mixer "
L.11068	5930	00-L.11068	Switch "
L.11069	5820	00-L.11069	Transformer "
L.11070		00-L.11070	Crystal Filter "
L.11071		00-L.11071	Transformer "
L.11072		00-L.11072	Oscillator Beat Frequency Assembly
L.11073		00-L.11073	R.F. Input "
L.11074		00-L.11074	Oscillator "
L.11075	00-L.1107	00-L.11075	R.F. Input "
L.11076		00-L.11076	" " "
L.11077		00-L.11077	" " "
L.11078		00-L.11078	" " "
L.11079		00-L.11079	" " "
L.11080		00-L.11080	R.F. Transformer Assembly
L.11081		00-L.11081	" " "
L.11082		00-L.11082	" " "
L.11083		00-L.11083	" " "
L.11084		00-L.11084	" " "
L.11085		00-L.11085	" " "
L.11086		00-L.11086	H.F. Oscillator "
L.11087		00-L.11087	" " "
L.11088		00-L.11088	" " "
L.11089		00-L.11089	" " "
L.11090		00-L.11090	" " "
L.11091		00-L.11091	" " "
L.11092		00-L.11092	Crystal Control "
L.11093	5895	00-L.11093	Arm (0.316)

Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.11094		00-L.11094	Arm (0.608)
L.11095		00-L.11095	" (0.507)
L.11096		00-L.11096	" (0.508)
L.11097		00-L.11097	" (0.706)
L.11099	6625	00-L.11099	Attenuated Model 10.6
L.11100	5985	00-L.11100	Antenna AS-45A/APR6
L.11101		00-L.11101	" 66132
L.11102		00-L.11102	Cable Plug Assembly
L.11103	5825	00-L.11103	Amplifier "
L.11104	5935	00-L.11104	Adaptor "
L.11105	6625	00-L.11105	Drive Attenuator "
L.11106		00-395-9861	Attenuator Sub "
L.13260	5940	00-L.13260	Board, Tag
L.13261		00-L.13261	" "
L.13262		00-L.13262	" "
L.13263		00-L.13263	" "
L.13264		00-L.13264	" "
L.13265		00-L.13265	" "
L.13266		00-L.13266	" "
L.13267		00-L.13267	" "
L.13268		00-L.13268	" "
L.13269		00-L.13269	" "
L.13270		00-L.13270	" "
L.13271		00-L.13271	" "
L.13272	5825	00-L.13272	Box Stowage
L.13273		00-L.13273	Bracket Tube Clamp
L.13274		00-L.13274	" Picture Tube
L.13275		00-L.13275	Box, Junction AL71095- 2 MS14B
L.13293	5895	00-L.13293	Bag or envelope containing 1 Shell Plug, 1 Cap, Plug Shell
L.13294	3110	00-289-6605	Bearing Needle 0504B
L.13295	5895	00-L.13295	Box, Stowage No. 1 (YG1 Spares)
L.13296		00-L.13296	Box, Stowage No. 2 (YG1 Spares)
L.13298		00-387-2666	Bushing Brass
L.13301	6625	00-L.13301	Blade Fan
L.13303		00-L.13303	Belt Timing

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.13304	5895	00-L.13304	Bushing (0.904)
L.13305		00-L.13305	Block Bearing (0.1717)
L.13306		00-L.13306	" " (0.178)
L.13307		00-L.13307	" " (0.2570)
L.13308		00-L.13308	Bushing (0.1728)
L.13309	6650	00-L.13309	Besse Camera Adaptor
L.13310	5895	00-L.13310	Bearing Ball.
L.13311		00-L.13311	" "
L.13312		00-L.13312	Brush
L.13313		00-L.13313	" Set
L.13314	5985	00-L.13314	E. Bends Plane in Waveguide RG/48V
L.13327	5977	00-L.13327	Brushes for Fan Motor
L.13328	6625	00-L.13328	Base
L.17120	5895	00-L.17120	Coil Antenna
L.17121		00-L.17121	Connector Antenna Assembly
L.17122	5935	00-195-8987	Connector (Power) Input
L.17123	5950	00-241-3436	Choke Diode
L.17124		00-228-7580	" R/F 70 MH
L.17125	5960	00-665-3154	Clamp, Tube, Glass
L.17126	5825	00-L.17126	" " Metal
L.17127	5960	00-379-4466	" "
L.17128	5825	00-L.17128	" Crystal
L.17129		00-L.17129	" Cable
L.17130		00-L.17130	" Tube
L.17131	5920	00-L.17131	Clip, Fuse
L.17132	5950	00-228-4674	Coil Oscillator
L.17133		00-L.17133	"
L.17134		00-228-7189	"
L.17135		00-228-4192	" P.P.217HY
L.17136		00-254-9762	" Compensator Video
L.17137		00-645-3288	" Oscillator Choke 1.33 OHMS
L.17138	5826	00-250-5562	Compass, Radio
L.1789	5825	00-L.1739	Crank Drive
L.17140		00-L.1740	Contacts, Slip Ring
L.17143	5935	00-280-2200	Clamp Electrical
L.17144	5895	00-17144	Compound Anti Seize

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Old Identification

New Identification

Old Identification	Group Class	Catalogue No.	Item Name
0623			4 oz. Can
L.17176		00-L.17176	Control Unit Aerial
L.17177		00-L.17177	Insulation Cap
L.17178		00-L.17178	Contact
L.17179		00-L.17179	"
L.17180		00-L.17180	Compound Antizealge
			4 oz Can
L.17190	6625	00-L.17190	Cables
L.17192		00-L.17192	Counter Electronic
L.17193	5935	00-201-2353	Connector
L.17194		00-L.17194	"
L.17195	6625	00-L.17195	Counter, Decade Model
			AC-4A
L.17196	5950	00-L.17196	Choke, R.F.
L.17197		00-L.17197	" "
L.17198		00-L.17198	" "
L.17199		00-L.17199	" "
L.17200		00-L.17200	" "
L.17201		00-L.17201	" "
L.17202		00-L.17202	" "
L.17203		00-L.17203	" "
L.17204		00-L.17204	" "
L.17205		00-L.17205	" 1st Filter
L.17206		00-L.17206	" 2nd "
L.17207	5935	00-L.17207	Connection Antenna
			Adaptor
L.17208	5820	00-L.17208	Chart Frequency Control
L.17209	5920	00-L.17209	Cover, Fuse
L.17210	6940	00-L.17210	Chart
L.17211	6940	00-L.17211	"
L.17212	5950	00-L.17212	Coil R.F.
L.17213		00-L.17213	" "
L.17214		00-L.17214	" "
L.17215		00-L.17215	" "
L.17216		00-L.17216	" "
L.17217	6680	00-L.17217	Counter Mechanical
L.17218		00-L.17218	" "
L.17219	5895	00-L.17219	Clamp
L.17220		00-L.17220	Coupling Rigid
L.17221		00-L.17221	Contact Case
L.17222		00-L.17222	" "
L.17223	5950	00-L.17223	Coil R.F.

Old Identification

New Identification

Old Identification	Group Class	Catalogue No.	Item Name
0623			
L.17224		00-L.17224	Coil R.F.
L.17225		00-L.17225	" "
L.17226	6680	00-L.17226	Counter Mechanical
L.17227		00-L.17227	Counter Rotating
			Fixed Mounting
L.17228	5895	00-L.17228	Clamp
L.17229		00-L.17229	"
L.17230	3010	00-L.17230	Coupling Rigid
L.17231	5950	00-L.17231	Coil R.F.
L.17257	5895	00-L.17257	Cabinet
L.17258		00-L.17258	"
L.17259		00-L.17259	"
L.17260	5995	00-670-3805	Cable, Servicing
L.17261		00-670-3806	" "
L.17262	5995	00-670-3807	" "
L.17263	5935	00-L.17263	Connector
L.17264		00-L.17264	"
L.17265		00-L.17265	"
L.17266		00-L.17266	"
L.17267		00-L.17267	"
L.17268		00-680-4026	Clamp
L.17269	5935	00-L.17269	Cable
L.17270	3010	00-816-4308	Coupling
L.17271		00-L.17271	" Flexible
L.17281	5895	00-L.17281	Cam. Oscillator
L.17282		00-L.17282	"
L.17283		00-L.17283	Compensator
L.17284		00-L.17284	Contact Assembly
L.17285		00-L.17285	" "
L.17286		00-L.17286	" "
L.17287	5975	00-L.17287	" Case Sleeve
L.17288	5950	00-L.17288	Core Adjacent
L.17289	5995	00-L.17289	Cable Assembly
L.17290		00-L.17290	"
L.17291	5825	00-L.17291	Cabinet, Loran
			Receiving Set
L.17292	5985	00-L.17292	Coupler, Antenna
L.17306	5995	00-L.17306	Cable Assembly
L.17307		00-L.17307	" "
L.17309		00-L.17309	" "

Old Identification
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New Identification

Old Identification	Group Class	Catalogue No.	Item Name
L.17310		00-L.17310	Cable Assembly
L.17311	6625	00-L.17311	Control Assembly
L.17312	5995	00-L.17312	Cable Delay
L.17313		00-L.17313	"
L.17314		00-L.17314	"
L.17315		00-L.17315	" Extension
L.17316		00-L.17316	" Assembly
L.17317	6625	90-L.1317	Contact
L.17318	6680	00-L.1318	Counter
L.17319	6625	00-L.17319	Contact Assembly
L.21920	5825	00-L.21920	Drive Double Worm For Aerials
L.21921	6115	00-L.21921	Dynamotom 28V Bendex
L.21923	5895	00-L.21923	Discs Signal
L.21924		00-L.21924	" "
L.21925		00-L.21925	" "
L.21927	6625	00-836-6438	Discriminator
L.21928		00-L.21928	Divider Decade
L.21929	5820	00-L.21929	Dial
L.21930	6250	00-L.21930	"
L.21931	5355	00-L.21931	"
L.21932		00-L.21932	"
L.21933		00-L.21933	"
L.21934	6625	00-725-8173	Delay Line
L.21935	5355	00-L.21935	Dial
L.21939		00-L.21939	"
L.22340	6625	00-L.22340	Eccentric Assembly
L.22341		00-L.22341	" "
L.22342		00-L.22342	" "
L.23160	5920	00-L.23160	Fuse 2 Amp
L.23161		00-L.23161	" 3 "
L.23162		00-L.23162	Fuse 5 Amp
L.23170		00-L.23170	" 10 Amp
L.23171		00-L.23171	" 1 "
L.23172		00-L.23172	" 6.25 Amp
L.23173		00-L.23173	is" 1.6 "
L.23174		00-L.23174	" 2 "
L.23175	4130	00-L.23175	Filter, Air
L.23176	5915	00-322-5505	" R/P
L.23177		00-L.23177	" 50 Amp

Old Identification
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New Identification

Old Identification	Group Class	Catalogue No.	Item Name
L.23179	5985	00-538-1669	Flange
L.23180		00-L.23180	"
L.23181		00-L.23181	Ferrull Handle
L.23182	5325	00-L.23182	Pastener
L.23953	5330	00-L.23953	Gasket
L.23954		00-L.23954	"
L.23955		00-L.23955	"
L.23956		00-L.23956	"
L.23957		00-L.23957	"
L.23958		00-L.23958	"
L.23959		00-L.23959	"
L.23961		00-L.23961	"
L.23962		00-L.23962	"
L.23963		00-L.23963	"
L.23964		00-L.23964	"
L.23965		00-L.23965	"
L.23966	5895	00-L.23966	Gear Assembly
L.23967		00-L.23967	" "
L.23968		00-L.23968	" "
L.23969		00-L.23969	" "
L.23970		00-L.23970	" "
L.23971		00-L.23971	" "
L.23972		00-L.23972	" "
L.23973		00-L.23973	" "
L.23974		00-L.23974	" "
L.23975		00-L.23975	" "
L.23976		00-L.23976	" "
L.23977	6625	00-L.23977	Generator
L.23978	5895	00-L.23978	Gaskets
L.23980	5895	00-L.23980	Gasket Scintella
L.23981		00-L.23981	Gear Aluminium
L.23982		00-L.23982	Gasket
L.23983		00-L.23983	"
L.23984	5985	00-L.23984	Gear Clamp
L.23985		00-L.23985	" & Hub Assembly
L.23986		00-L.23986	" " " "
L.23988	5895	00-L.23988	" Collins
L.23994	6625	00-L.23994	Generator Interference
L.23997	5825	00-L.23997	Gasket

Old Identification 0623	New Identification	
	Group Class	Catalogue No. Item Name
L.23998		00-L.23998 Gear
L.23999		00-L.23999 "
L.24000		00-L.24000 "
L.24001		00-L.24001 "
L.24002		00-L.24002 "
L.24003		00-L.24003 " Box
L.24832	6625	00-L.24832 Handle
L.24844	5920	00-L.24844 Fuse Holder
L.24845	5960	00-270-3324 Holder Tube
L.24846	5825	00-L.24846 Hood
L.24883	5895	00-L.24883 Handle
L.24884		00-L.24884 Hub
L.24885		00-L.24885 Hinge
L.25900	5826	00-534-4150 Azimuth, Indicator
L.25901	5825	00-L.25901 Left Right Indicator
L.25902	5950	00-L.25902 Inductor
L.25903		00-L.25903 "
L.25904		00-L.25904 "
L.25905		00-L.25905 "
L.25906		00-L.25906 "
L.25907		00-L.25907 "
L.25921		00-L.25921 Inductance
L.25922		00-L.25922 "
L.25923		00-L.25923 "
L.25924		00-L.25924 "
L.25925	5970	00-L.25925 Insulator Ceramic
L.25931	5950	00-L.25931 Inductor
L.25935	4140	00-L.25935 Impeller Fan
L.25936	5970	00-L.25936 Insulator
L.25937	5355	00-L.25937 Indicator Dial
L.25940	5970	00-L.25940 Insulator Bushing
L.25941	5825	00-L.25941 Indicator
L.26676		00-L.26676 Bonding Jumper
L.26677	5935	00-L.26677 Jack
L.26680		00-L.26680 Phone Jack
L.26681		00-L.26681 Jack Tip
L.27076	5355	00-L.27076 Knob Attenuator
L.27103		00-L.27103 " & Dial
L.27104		00-L.27104 " " "
L.27105		00-L.27105 " " "
L.27106		00-L.27106 " " "

Old Identification 0623	New Identification	
	Group Class	Catalogue No. Item Name
L.27107		00-L.27107 Knob & Dial
L.27108		00-L.27108 " " Skirt
L.27109		00-L.27109 " Frequency Control
L.27110		00-L.27110 " Tuning Lock
L.27111		00-L.27111 "
L.27112		00-L.27112 "
L.27113		00-L.27113 "
L.27114		00-L.27114 "
L.27115		00-L.27115 "
L.27116		00-L.27116 "
L.27117		00-L.27117 "
L.27118		00-L.27118 "
L.27119		00-L.27119 "
L.27120		00-L.27120 " Plastic Black
L.27121		00-L.27121 Kit
L.27122		00-L.27122 Knob
L.27123		00-L.27123 "
L.27124		00-L.27124 "
L.27125		00-L.27125 "
L.27126		00-L.27126 " Crank Handle
L.27127		00-L.27127 " Bakelite
L.27128		00-L.27128 " Black
L.28460	5826	00-155-8297 Lamp
L.28461	5825	00-L.28461 Loop Rotatable
L.28462		00-L.28462 " "
L.28477	6240	00-L.28477 Lamp
L.28478	6210	00-L.28478 Lens
L.28479		00-L.28479 "
L.28480	5895	00-L.28480 Lubricant
L.28481	6240	00-223-9100 Lamp
L.28482		00-155-8706 "
L.28483		00-L.28483 "
L.28484	6210	00-L.28484 "
L.28485	6240	00-L.28485 "
L.28486	5895	00-L.28486 Line Delay
L.28487		00-L.28487 Lever
L.28488	6210	00-L.28488 Light Indicator
L.28491		00-L.28491 Lens
L.28492		00-L.28492 "

Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.28493		00-L.28493	Indicator Light
L.28495	5895	00-L.28495	Line R.F.
L.28496	6240	00-542-6571	Lamp, Pilot
L.28497		00-076-6113	" Neon
L.28498	6625	00-L.28498	Head Test
L.293200	5340	00-333-3384	Mount
L.29321	5825	00-L.29321	Base Mounting
L.29322	6105	00-L.29322	Motor, Band Charge
L.29342	5895	00-L.29342	Meter, Frequency
L.29343	6625	00-L.29343	Meter
L.29345		00-L.29345	"
L.29346		00-L.29346	Voltmeter
L.29347		00-L.29347	"
L.29348	6105	00-L.29348	Motor Electric
L.29350	6625	00-L.29350	Meter
L.29351	6105	00-393-1748	Motor, Fan
L.29352		00-L.29352	"
L.29353	6625	00-B.29353	Meter Tuning
L.29364	5895	00-L.29364	Mounting
L.29365		00-L.29365	Mixer Amplifier
L.29366	6105	00-L.29366	Motor
L.29367	5340	00-L.29367	Mount Shock Chassis
L.29368		00-L.29368	" "
L.29741	5310	00-L.29741	Nut Bronze
L.29742		00-L.29742	"
L.29743		00-L.29743	" Hexagonal
L.29744	5310	00-208-2777	"
L.29900	6625	00-L.29900	Oil Soluble
L.29901		00-L.29901	Oven Crystal
L.31660	6240	00-299-4023	Panel
L.31661	5935	00-259-3139	Plugs
L.31662		00-259-3137	Plug
L.31663		00-259-4450	"
L.31664		00-L.31664	"
L.31668	5315	00-L.31668	Cotterpin Brass
L.31669		00-L.31669	" " "
L.31670	5895	00-L.31670	Packing
L.31671	5330	00-L.31671	"
L.31672		00-L.31672	"
L.31673		00-291-9582	"

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.31674		00-L.31674	Packing
L.31678	5935	00-L.31678	Plug
L.31679		00-295-5449	"
L.31680		00-L.31680	"
L.31683	5940	00-L.31683	Post Binding
L.31684		00-L.31684	Pin (H302)
L.31685		00-L.31685	Post Spacing (H-102)
L.31686		00-L.31686	" " (H-105)
L.31687		00-L.31687	" " (H-308)
L.31688		00-L.31688	" " (H-101)
L.31689		00-L.31689	Pin (H-104)
L.31690		00-L.31690	Post (H-305)
L.31691		00-L.31691	" (H-309)
L.31692		00-L.31692	" (H-105)
L.31693	5895	00-L.31693	Pulse Blanking Unit
L.31694	5935	00-L.31694	Plug
L.31695	5895	00-L.31695	Pin Straight Roll
L.31696		00-L.31696	" " "
L.31697	5935	00-L.31697	Plug Assembly
L.31701	5895	00-L.31701	Pin Grooved
L.31702		00-L.31702	" "
L.31703		00-L.31703	" Locating
L.31704		00-L.31704	Plate Cam Pre Selection
L.31705		00-L.31705	" " " "
L.31706	6625	00-L.31706	Power Supply
L.31708		00-L.31708	Plate Lock
L.33570	5825	00-L.33570	Receiver Indicator
L.33571		00-L.33571	" "
L.33572		00-L.33572	Reck Mounting
L.33573	5915	00-L.33573	Reactor Filter
L.33574	5935	00-L.33574	Connector Receptacle
L.33575		00-L.33575	" "
L.33576		00-L.33576	Receptacle
L.33577		00-L.33577	"
L.33578		00-L.33578	"
L.33579	5895	00-L.33579	Ribbon Soft Copier
L.33580	5985	00-L.33580	Ring Retaining
L.33581		00-L.33581	" "
L.33582	5915	00-722-2875	Reactor
L.33583		00-722-2876	"
L.33584		00-722-2878	"

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.33585		00-722-2879	Reactor
L.33586		00-501-4430	"
L.33587		00-722-1814	"
L.33588		00-L.33588	"
L.33589		00-722-2877	"
L.33590		00-L.33590	"
L.33591	5950	00-798-5722	"
L.33592		00-710-5775	"
L.33593		00-723-2565	"
L.33594		00-615-4889	"
L.33595		00-799-0044	"
L.33596		00-448-6033	"
L.33597		00-L.33597	"
L.33598		00-723-2563	"
L.33599		00-615-4888	"
L.33601	5935	00-L.33601	Receptacle Power
L.33603	5945	00-L.33603	Relay Rotary
L.33604	5960	00-L.33604	Retainer Tube (0.733)
L.33605		00-L.33605	" (0.449)
L.33606	5985	00-L.33606	Radome
L.33608	5935	00-L.33608	Ring "E" Retaining
L.33613	5945	00-L.33613	Relay Board Assembly
L.33614	5985	00-L.33614	Ring Clamping
L.33615	6940	00-L.33615	Rectifier
L.33617	5895	00-L.33617	Ring Retaining
L.43900	5825	00-L.43900	Tip Shaft
L.43901		00-L.43901	Shield Hi-Voltage
L.43902	5960	00-L.43902	" CRT Mu-Metal
L.43903	5935	00-L.43903	Socket Tube Navy 49395
L.43904		00-L.43904	" " *49400
L.43905		00-L.43905	" " *49392
L.43906		00-L.43906	Socket Navy No. 49436
L.43907		00-L.43907	" 3 Prong
L.43908		00-L.43908	" 4 "
L.43909		00-L.43909	" 14 "
L.43910	5970	00-L.43910	Standoffs Ceramic
L.43911		00-L.43911	" " "

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.43912	5930	00-296-3904	Switch
L.43913		00-548-4749	"
L.43914		00-L.43914	"
L.43915		00-248-5529	"
L.43916		00-112-5190	"
L.43917	5930	00-L.43917	"
L.43918		00-L.43918	"
L.43919		00-L.43919	"
L.43920		00-L.43920	"
L.43921	5825	00-L.43921	Shaft Tuning
L.43922		00-L.43922	" "
L.43924		00-L.43924	" "
L.43925		00-L.43925	" "
L.43966	5330	00-L.43966	Seal
L.43970	5930	00-L.43970	Switch
L.43979		00-L.43979	"
L.43980	6625	00-L.43980	Spring Belt
L.43981		00-L.43981	Strip Focusing
L.43982	5935	00-L.43982	Socket Input
L.43983		00-L.43983	" If Output
L.43984	5930	00-L.43984	Switch Crystal Selector
L.43985		00-L.43985	Switch "
L.43986		00-L.43986	" Conversion
L.43987		00-L.43987	" Selectivity
L.43988		00-L.43988	" Toggle
L.43989		00-L.43989	" "
L.43990		00-L.43990	" "
L.43991		00-L.43991	" Spring
L.43992	5935	00-L.43992	Socket Tube Miniature
L.43993		00-L.43993	" " Octal
L.43994		00-L.43994	" " Miniature
L.43995		00-L.43995	Socket Tube
L.43996		00-L.43996	" "
L.43997		00-L.43997	" Crystal
L.43998	3010	00-L.43998	Shaft Coupling
L.43999		00-L.43999	" "
L.44000	3010	00-L.44000	" "
L.44001	5820	00-L.44001	Spring

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.44002		00-I44002	Spring
L.44003		00-L.44003	"
L.44004		00-L.44004	"
L.44005		00-L.44005	"
L.44006		00-L.44006	"
L.44007		00-L.44007	"
L.44008		00-L.44008	"
L.44009	5990	00-L.44009	Synchro (B101)
L.44010	5895	00-L.44010	Shaft (0.339)
L.44011		00-L.44011	Spring (0.340)
L.44012		00-L.44012	" (0.545)
L.44013		00-L.44013	Screw (#.718)
L.44014		00-L.44014	Spring (0.735)
L.44015		00-L.44015	Shaft (0.1701)
L.44016		00-L.44016	" Assembly (0.2569)
L.44017		00-L.44017	Screw Adjustment (H.112)
L.44018		00-L.44018	" (H.412)
L.44019		00-L.44019	Spring (0.459)
L.44020		00-L.44020	" (0.536)
L.44021		00-L.44021	Screw, Thumb (H.1704)
L.44022		00-L.44022	Spring (0.1704)
L.44023		00-L.44023	Shaft (0.1731)
L.44024		00-L.44024	" (0.1735)
L.44025		00-L.44025	" (0.1778)
L.44026		00-L.44026	" (0.2004)
L.44027		00-L.44027	Stretchor Pulse (S.1801)
L.44028		00-L.44028	Shaft (0.2003)
L.44029		00-L.44029	Screw (0.2502)
L.44030	3040	00-699-4327	Spring (0.2530)
L.44031	5895	00-L.44031	Shaft Assembly (0.2574)
L.44032		00-L.44032	" " (0.231)
L.44033		00-L.44033	Spring (0.341)
L.44034		00-L.44034	" (0.458)
L.44035	5990	00-L.44035	Synchro (B.501)
L.44036	5895	00-L.44036	Spring (0.502)
L.44037		00-L.44037	" (0.519)
L.44038		00-L.44038	" (0.636)

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.44039		00-L.44039	Spring (0.736)
L.44040	5960	00-L.44040	Screw Thumb (H.1601)
L.44041		00-L.44041	Shield (E.1805)
L.44042	5875	00-L.44042	Screw Captive (H.2506)
L.44043	5895	00-L.44043	Shaft (0.2509)
L.44044		00-L.44044	" (0.2563)
L.44045		00-L.44045	" Assembly (0.2578)
L.44046		00-L.44046	Screw Captive (H.26011)
L.44047		00-L.44047	Spring (0.3109)
L.44048	5960	00-L.44048	Shield (E.917)
L.44049	5895	00-L.44049	Spring (0.1719)
L.44050		00-L.44050	Shaft (0.1736)
L.44051		00-L.44051	Screw Captive (H.1801)
L.44052		00-L.44052	" (H.1901)
L.44053		00-L.44053	" (H.2101)
L.44054		00-L.44054	Knurled Thumb Screw
L.44055		00-L.44055	Spring (0747)
L.44056		00-L.44056	" (0750)
L.44057		00-L.44057	" (0836)
L.44058	6625	00-L.44058	Scale Oscillosc- ope
L.44059	5895	00-L.44059	Seal, Rubber
L.44060	5930	00-L.44060	Switch Push
L.44061		00-L.44061	" Toggle DPDT
L.44064		00-L.44064	Switch Rotary
L.44065	5960	00-L.44065	Shield
L.44066	5895	00-L.44066	Shaft
L.44067		00-L.44067	"
L.44068		00-L.44068	"
L.44080	6250	00-L.44080	Socket
L.44082	5935	00-L.44082	"
L.44083	5930	00-L.44083	Switch Rotary
L.44084		00-L.44084	" "
L.44085		00-L.44085	" "

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Old Identification 0623	New Identification		
	Group Class	Catalogue No.	Item Name
L.44086		00-L.44086	Switch Rotary
L.44087		00-L.44087	" "
L.44088		00-L.44088	" "
L.44089		00-L.44089	" "
L.44090		00-L.44090	" "
L.44091		00-L.44091	" "
L.44092		00-L.44092	" "
L.44094		00-L.44094	" Rotary
L.44095	6625	00-L.44095	Shaft Drive
L.46630	5950	00- 250-7568	Transformer
L.46631		00-L.46631	"
L.46633		00-197-4598	"
L.46634		00-L.46634	"
L.46635		00-L.46635	I.P. "
L.46636		00-L.46636	"
L.46637		00-L.46637	"
L.46638		00-L.46638	"
L.46639		00-L.46639	"
L.46640		00-L.46640	"
L.46641		00-L.46641	"
L.46642		00-L.46642	"
L.46655	5895	00-L.46655	Trainer
L.46656	5950	00-L.46656	Transformer E.2
L.46657	5895	00-L.46657	"
L.46658	5950	00-L.46658	"
L.46659		00-L.46659	"
L.46660		00-L.46660	"
L.46661		00-L.46661	"
L.46662		00-L.46662	"
L.46663		00-L.46663	"
L.46664		00-L.46664	"
L.46669	6685	00-711-6352	Thermometer
L.46670	5950	00-715-1270	Transformer Power
L.46671		00-578-1717	" "
L.46672		00-348-0494	" Pulse
L.46674		00-L.46674	"
L.46675		00-L.46675	" Power
L.46676		00-L.46676	"
L.46677	5895	00-L.46677	Tool
L.46678	5940	00-L.46678	Terminal (E.1744)

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Old Identification 0623	New Identification		
	Group Class	Catalogue No.	Item Name
L.46679	5895	00-L.46679	Tool
L.46680		00-L.46680	"
L.46681		00-L.46681	"
L.46683		00-L.46683	Tuner
L.46684		00-L.46684	"
L.46685		00-L.46685	"
L.46686		00-L.46686	"
L.46687	5940	00-L.46687	Terminal
L.46692		00-L.46692	"
L.46693	5950	00-L.46693	Transformer R.F.
L.48070	5825	00-L.48070	Unit Remote Control
L.49700		00-L.49700	Wrench
L.49704		00-L.49704	Window
L.49720	5895	00-L.49720	Washer
L.49721	5120	00-L.49721	Wrench
L.49723		00-L.49723	"
L.49729	5895	00-L.49729	Window
L.49731		00-L.49731	Washer
L.49732		00-L.49732	"
L.49733		00-L.49733	" (H.504)
L.49734		00-L.49734	" (H.505)
L.49735		00-L.49735	"
L.49736		00-L.49736	"
L.49737		00-L.49737	"
L.49738		00-L.49738	"
L.49739		00-L.49739	"
L.49740		00-L.49740	"
L.49741		00-L.49741	"
L.49742	5930	00-L.49742	Wafer
L.49743	5895	00-L.49743	Washer
L.49744		00-L.49744	"
L.49745		00-L.49745	"
L.49746		00-L.49746	"
L.49747		00-L.49747	"
L.49748		00-L.49748	"
L.49749	5840	00-L.49749	Waveguide
L.43495	5340	00-L.43495	Bushing
L.43496	5995	00-L.43496	Cable Assembly RF
L.43497		00-L.43497	" " "
L.43498		00-L.43498	" " "

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Old Identification 0623	New Identification	
	Group Class	Catalogue No. Item Name
L.43499		00-L.43499 Cable Assembly R.F.
L.43500	5820	00-015-3690 " " "
L.43501	5995	00-L.43501 " "
L.43502	5975	00-768-2975 Cap Receiver
L.43502		00-L.43502 " Transmitter
L.43504	5950	00-042-9443 Choke
L.43505		00-L.43505 " R.F.
L.43506		00-L.43506 " "
L.43507		00-L.43507 Coil Air Wound
L.43508		00-L.43508 " " "
L.43509		00-L.43509 " " "
L.43510		00-L.43510 " " "
L.43511		00-L.43511 " " "
L.43512		00-L.43512 " " "
L.43513		00-L.43513 " " "
L.43514		00-015-7352 " R.F.
L.43515		00-L.43515 " "
L.43516		00-015-3636 " "
L.43517		00-L.43517 " "
L.43518	5820	00-L.43518 Compressor Assembly
L.43519	5935	00-L.43519 Connector
L.43520		00-L.43520 " "
L.43521		00-L.43521 " "
L.43522		00-L.43522 " "
L.43523		00-L.43523 " "
L.43524		00-L.43524 " "
L.43525		00-L.43525 " "
L.43526		00-L.43526 " "
L.43527		00-L.43527 " "
L.43528		00-L.43528 " "
L.43529		00-L.43529 " "
L.43530		00-L.43530 " "
L.43531		00-L.43531 " "
L.43532		00-L.43532 " "
L.43533		00-L.43533 " "
L.43534		00-L.43534 " "
L.43535		00-L.43535 " "
L.43536		00-L.43536 " "
L.43537		00-L.43537 " "
L.43538		00-883-2402 " "

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Old Identification 0623	New Identification	
	Group Class	Catalogue No. Item Name
L.43539	5820	00-L.43539 Contact
L.43540		00-L.43540 " "
L.43541		00-L.43541 " "
L.43542	6135	00-727-8787 " Battery
L.43543	5820	00-L.43543 " "
L.43544	5995	00-869-5256 Cord
L.43545	5820	00-015-3692 Cover
L.43546		00-015-3693 " "
L.43547	6135	00-L.43547 " "
L.43548	5820	00-L.43548 Cradle
L.43549		00-L.43549 Cushion
L.43550	5965	00-079-0928 Earphone
L.43551		00-722-7574 Diaphragm
L.43552	5820	00-739-6706 Eggcrate Assembly
L.43553	5820	00-L.43553 Eggcrate Assembly
L.43554	5325	00-L.43554 Fastener, Stud
L.43555		00-L.43555 " "
L.43556	5915	00-L.43556 Filter
L.43557	5920	00-190-9498 Fuse
L.43558		00-L.43558 Fuse Holder
L.43559	5965	00-L.43559 Hand Set
L.43560		00-L.43560 Head Band
L.43561	5950	00-015-7411 Inductor
L.43562		00-015-7412 " "
L.43563	5970	00-L.43563 Insulator
L.43564		00-051-0822 " Jack
L.43565		00-L.43565 " "
L.43566	5935	00-L.43566 Test Jack
L.43567	5820	00-L.43567 Kit Insulator
L.43568	5355	00-619-3835 Knob
L.43569		00-L.43569 " "
L.43570	5820	00-015-3694 " "
L.43571	6240	00-155-8707 Lamp
L.43572		00-L.43572 " "
L.43573	6250	00-L.43573 Lampholder
L.43574	6220	00-L.43574 Lens
L.43575		00-L.43575 " Green
L.43576		00-L.43576 " Amber
L.43577		00-L.43577 " Red
L.43578	5965	00-L.43578 Loudspeaker
L.43579	6625	00-L.43579 Meter
L.43580	5965	00-L.43580 Microphone

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Old Identification 0623	New Identification		
	Group Class	Catalogue No.	Item Name
L.43581	5840	00-015-3642	Modula
L.43582	5820	00-015-3643	"
L.43583	5840	00-015-3644	"
L.43584	5820	00-015-3645	"
L.43585	5840	00-015-7355	"
L.43586		00-015-3646	"
L.43587		00-015-3647	"
L.43588	5820	00-015-3648	"
L.43589	5840	00-015-3649	"
L.43590	5820	00-015-3650	"
L.43591		00-015-3651	"
L.43592	5840	00-015-7364	"
L.43593	5820	00-015-3652	"
L.43594	5840	00-015-3653	"
L.43595	5820	00-015-3654	"
L.43596		00-015-3655	"
L.43597		00-015-3635	"
L.43598		00-015-3696	"
L.43599		00-015-3697	"
L.43600		00-015-3700	"
L.43601		00-015-3701	"
L.43602		00-L.43602	"
L.43603		00-015-3703	"
L.43604		00-L.43604	Nut Special
L.43605		00-L.43605	Nut Adjusting
L.43606	4520	00-L.43606	Radiator Heat
L.43607	5950	00-L.43607	Reactor
L.43608		00-L.43608	"
L.43609		00-042-9396	"
L.43610	5820	00-L.43610	Receiver Assembly
L.43611		00-L.43611	"
L.43612	5945	00-L.43612	Relay
L.43613		00-L.43613	"
L.43614	5820	00-L.43614	Screw Captive
L.43615		00-L.43615	" Thumb
L.43616	5330	00-806-8769	Seal Bushing
L.43617	5935	00-043-0444	Socket
L.43618	5960	00-015-3639	"
L.43619		00-015-3640	"
L.43620	5935	00-015-3641	"

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Old Identification 0623	New Identification		
	Group Class	Catalogue No.	Item Name
L.43621		00-L.43621	Socket
L.43622		00-L.43622	"
L.43623	5340	00-015-7410	Spring
L.43624		00-043-0428	"
L.43625	5940	00-L.43625	Stud
L.43626		00-L.43626	"
L.43627		00-L.43627	"
L.43628		00-L.43628	" Knurled
L.43629		00-L.43629	" "
L.43630		00-L.43630	"
L.43631		00-L.43631	"
L.43632		00-L.43632	" Terminal
L.43633		00-L.43633	" "
L.43634		00-L.43634	" "
L.43635		00-L.43635	" "
L.43636		00-L.43636	" "
L.43637		00-L.43637	" "
L.43638		00-L.43638	" "
L.43639		00-L.43639	Terminal
L.43640		00-L.43640	" Board
L.43641	5930	00-043-0484	Switch Toggle
L.43642		00-L.43642	" "
L.43643		00-L.43643	" "
L.43644		00-L.43644	"
L.43645	5950	00-042-9390	Transformer
L.43646		00-042-9389	"
L.43647		00-043-0419	"
L.43648		00-015-3637	"
L.43649		00-015-7353	"
L.43650		00-015-3638	"
L.43651		00-L.43651	"
L.43652		00-L.43652	"
L.43653		00-L.43653	"
L.43654		00-L.43654	"
L.43655		00-015-3656	"
L.43656		00-L.43656	"
L.43657		00-042-9387	"
L.43658		00-043-9386	"
L.43659		00-L.43659	"
L.43660		00-043-0420	"
L.43661		00-015-7413	"

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.43662		00-L.43662	Transformer
L.43663		00-L.43663	"
L.43664	5820	00-L.43664	Transmitter
L.43665		00-L.43665	"
L.43666		00-L.43666	Radio Receiver
L.43667	5820	00-L.43667	Control Amplifier
L.43668	5965	00-L.43668	Loud Speaker
L.43669		00-L.43669	Electrical Handset
L.43670	5985	00-L.43670	Antenna
L.43671	6130	00-L.43671	Battery Charger
L.43672	5820	00-L.43672	Radio Set
L.43673	7610	00-L.43673	Navships Pom See Book
L.43674		00-L.43674	Pamphlet on Personal Care of Helmet Radio
L.43675		00-L.43675	Navships 95762 Technical Manual
L.43676	5950	00-L.43676	Triad N67A Transformer
L.43677	5905	00-L.43677	Cable Assembly RF
L.43678	5915	00-L.43678	Filter Bandpass
L.43679	5820	00-L.43679	Field Modification Kit
L.43964	5120	00-L.43964	Screwdrivers
L.43965		00-L.43965	" "
L.44100	5920	00-L.44100	Fuse
L.44101	6240	00-L.44101	Pilot Light
L.44102	5935	00-L.44102	Connector
L.44103		00-L.44103	"
L.44104	5930	00-L.44104	Switch Toggle
L.44105	5950	00-L.44105	Transformer
L.44016	5935	00-L.44106	Socket
L.44107		00-L.44107	"
L.44108	5950	00-L.44108	Coil
L.44109	6625	00-L.44109	Tuning Nib
L.44110		00-L.44110	" Shaft
L.44111		00-L.44111	Wobulator
L.44112	5915	00-L.44112	Filter Low Pass
L.44113	6625	00-L.44113	Tuning Line Assembly
L.44114		00-L.44114	Turret Attenuator

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Old Identification	New Identification		
0623	Group Class	Catalogue No.	Item Name
L.44115		00-L.44115	Sweep Assembly
L.46700	5805	00-L.46700	Unit Transistor
L.46703	5935	00-L.46703	Connector
L.46704	5915	00-L.46704	Filter
L.46705		00-L.46705	"
L.46706	5930	00-L.46706	Switch
L.46707		00-L.46707	"
L.46708		00-L.46708	"
L.46709		00-L.46709	"
L.46710		00-L.46710	"
L.46711	5805	00-L.46711	Line Amplifier
L.46712	5920	00-L.46712	Fuse Extractor
L.46713	6240	00-L.46713	Lamp Neon
L.46714	5935	00-L.46714	Socket
L.46715	5915	00-838-2417	Filter
L.46716		00-L.46716	Network
L.46717		00-838-3071	Filter
L.46718		00-L.46718	Network
L.46719		00-838-2423	Filter
L.46720		00-L.46720	Network
L.46721		00-713-4858	Filter
L.46722		00-L.46722	Network
L.46723		00-713-4906	Filter
L.46724		00-L.46724	Network
L.46725	5935	00-L.46725	Pin Jack (Red)
L.48073	6625	00-L.48073	Frequency Connector Unit
L.48076		00-L.48076	Plug in Trigger Unit
L.49702	5895	00-L.49702	Waveguide
L.46701	5950	00-838-4355	Transformer Audio
L.46702		00-823-3155	Transformer Audio

Item No.	Description	Quantity	Unit Price	Total Price
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RESTRICTED

ANO 254/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
6th June, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

RESTRICTED

254—Ikara Weapon System—Post Design Services

Introduction

This order has been prepared for information within the Department of the Navy and the Department of Supply. It describes the general administrative arrangements for post design services and the details of arrangements for the processing of modifications. A separate order will be issued to cover the reporting and repair of defects.

Applicability

2. The procedures detailed in Sections 2 to 5 inclusive apply only to those items accepted by the RAN and for which the Research and Development (R & D) phase is considered to be complete. The date of transfer from R & D will be promulgated for each Master Record of Indexes (MRI) Group. Special arrangements to apply to items which are in service with the RAN but for which development is not considered to be complete are detailed in the appropriate sections.

SECTION 1—DEFINITIONS

Approving Authority (ACNB)

The approving authority is the Australian Commonwealth Naval Board who approve all changes to a system.

2. Department of Supply Responsibilities

- (a) The Secretary, Department of Supply, is responsible for all aspects of the programme which are the responsibility of the Department of Supply.
- (b) The Secretary, Department of Supply, has delegated the following responsibilities—
 - (i) To the Controller, Research and Development—Completion of the development of ships' systems and tasks common to all systems.
 - (ii) To the Controller, Air and Guided Weapon Systems—Production of systems and individual equipments for RAN ships and establishments.

3. Co-ordinating System R & D Authority

- (a) The Co-ordinating System R & D Authority is responsible for co-ordination of the activities of the Co-ordinating R & D Authorities on a weapon system basis.
- (b) This responsibility has been assigned to the Controller, R & D, Department of Supply.

4. Co-ordinating R & D Authority

- (a) Where several R & D Authorities are concerned in respect of one major item and its associated equipment one R & D Authority is given co-ordinating responsibility and is nominated as the Co-ordinating R & D Authority for that group of equipments.

- (b) R & D Authorities are responsible to the Controller, R & D, in their respective fields for ensuring that proposed modifications do not degrade system performance from that specified in the Agreed Characteristics.
- (c) Co-ordinating R & D Authorities for the Ikara project have been nominated by the Controller, R & D, as follows—
 - (i) *Missile*—Chief Superintendent, Aeronautical Research Laboratories.
 - (ii) *System Performance*—Chief Superintendent, Aeronautical Research Laboratories.
 - (iii) *Guidance*—Deputy Director, WR & D Wing, Weapon Research Establishment.
- (d) Co-ordinating R & D Authority for the launcher and handling system is a Department of the Navy responsibility and is delegated to the Director of Weapons and Electrical Engineering (DWE) who liaises as necessary with the Co-ordinating System R & D Authority.

5. Production Authority

- (a) The Production Authority is responsible for planning production, for agreeing the delivery programme with the Department of the Navy and for progressing deliveries.
- (b) The Production Authority is also responsible for—
 - (i) Advising the Design and R & D Authorities on the produceability of designs.
 - (ii) Examination of capital assistance schemes.
 - (iii) Authorising the scale and scope of tooling.
 - (iv) Authorising the extent and timing of each stage in the production plan until the Department of the Navy has formally accepted the Approved Design.
 - (v) Authorising manufacture for delivery to the Department of the Navy in accordance with drawings frozen by the Co-ordinating R & D Authorities, for this purpose.
 - (vi) Ensuring production methods are maintained to a defined standard.
 - (vii) Preparation of production costs and provision of production cost plans for Department of the Navy requirements.
 - (viii) Monitoring production costs and procedures by value analysis investigations.
 - (ix) Advising the Co-ordinating R & D Authorities on the production capability of contractors proposed for design and development tasks.

6. System Design Authority

- (a) The System Design Authority is responsible to the Approving Authority for the control and direction of the separate Co-ordinating Design Authorities.

- (b) This authority is delegated to DWE who is also responsible for the following activities within the Department of the Navy—
- (i) Overall Weapon Project Management.
 - (ii) Advice to Supply Directorates.
 - (iii) Advice to Training Directorates.
 - (iv) Naval component of System documentation.
 - (v) Modification of computer programmes.

7. Co-ordinating Design Authority

- (a) Where several Design Authorities are concerned in the design of one major item, the principal Design Authority concerned is given co-ordinating responsibility and is nominated by the Department of Supply as the Co-ordinating Design Authority for that major item. (Fig. 1 in Section 1.)
- (b) The Co-ordinating Design Authority is entirely responsible for ensuring that the design work carried out by the Design Authorities is fully compatible both physically and functionally with items produced by other Design Authorities and with the major item. The appointment of a Co-ordinating Design Authority does not remove the responsibility for detailed design from the various Design Authorities.
- (c) There may be more than one Co-ordinating Design Authority when considering the system as a whole, and the activities of the Co-ordinating Design Authorities are co-ordinated by the System Design Authority.
- (d) All service faults reported on Form AS 2022 will be reported to the responsible Co-ordinating Design Authority who will then pass those requiring investigation to the appropriate Design Authority/s for study and subsequent raising of a report of modification proposal.

8. Design Authorities

- (a) Design Authorities are nominated by the Co-ordinating R & D Authorities for individual system equipments or units. The Design Authority is responsible through the appropriate Co-ordinating Design Authority for the following Post Design Services—
- (i) *Maintenance of Documentation*—i.e., care and custody of all master drawings and MRI's describing the equipment for which they are responsible, updating documentation as modifications are introduced and for the preparation of Modification Leaflets and draft handbook amendments.
 - (ii) *Defect Investigation*—Design Authorities will carry out defect investigation as required by the Co-ordinating Design Authority.
 - (iii) *Modification Investigation and Trial Installation*—Where it is apparent that a modification is necessary the Design Authority will investigate the matter and prepare the

necessary information for submission to the Local Modification Committee. Design Authorities may raise in their own right modification proposal for consideration by the Local Modification Committee. In certain cases the Local Modification Committee may recommend the modification to be proved by a Trial Installation.

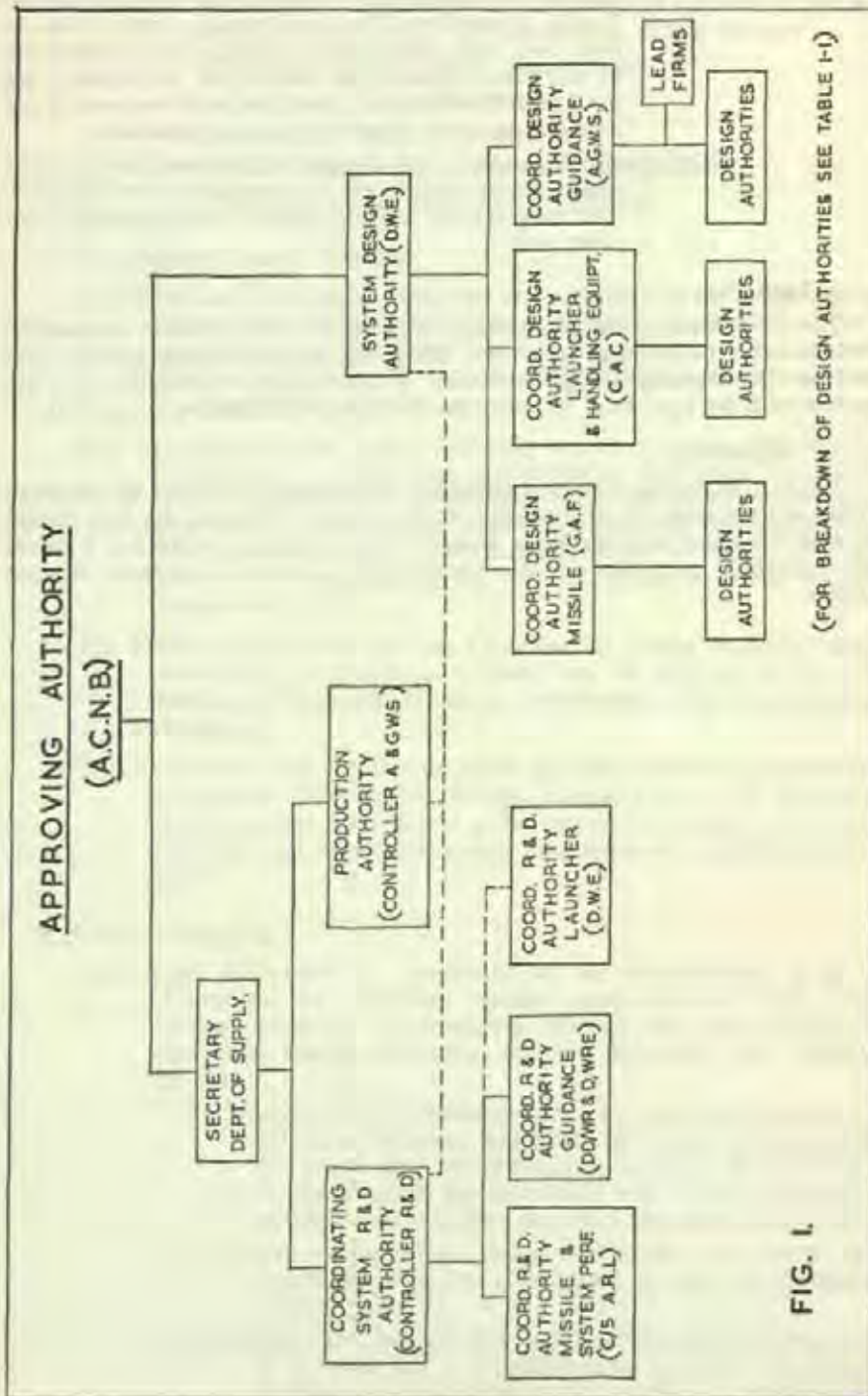
- (iv) *Technical Support*—The Design Authority will supply technical support, advice, etc., to the Service as requested. This may include training, repair, field engineering services, etc.

9. Lead Firm

The Co-ordinating Design Authority may appoint one or more commercial contractors as Lead Firms which will carry out, under contract, specific tasks for the Co-ordinating Design Authority. Various Design Authorities will co-operate with the Lead Firm in provision of technical information as required.

10. Organisation

Figure 1 in Section 1 is an organisation chart showing the lines of communication and the areas of responsibility, of the various authorities, for Post Design Services associated with the Ikara Weapon System. Table 1 in Section 4 details the responsible authorities for the various MRI groups of the Ikara Weapon System.



SECTION 2—MODIFICATIONS—CLASSIFICATION

Definitions

(a) *Modification*—A design change is classed as a modification when it affects one or more of the following—

- (i) Safety, operational use, reliability or other specified requirements.
- (ii) Cost.
- (iii) Delivery date.
- (iv) The service identification of any item already being manufactured or which has been delivered.
- (v) Interchangeability.
- (vi) Special tools or "special to type" support equipment.
- (vii) Equipments already delivered or which will be delivered before the proposed design change takes effect in manufacture (i.e., involves retrospective embodiment in such equipments).

(b) *Amendment*—A change to a drawing or specification is classed as an amendment when its purpose may be classified under one or more of the following headings—

- (i) Eliminate drawing or typing errors.
- (ii) Make minor manufacturing changes.
- (iii) Bring design data into line with manufacturing practices provided that, none of the criteria of Section 2, Paragraph 1, above also apply.

Note—When a design authority is uncertain as to whether a proposed design change should be classified as an amendment or a modification the matter should be referred to the Local Modification Committee for decision.

2. Classification of Modifications

All modifications must be allocated a modification classification by the Local Modification Committee before passing to the Central Modification Committee. This classification will consist of a letter (A, B, C or D) indicating the action to be taken by the Production Contractor and a number (1, 2, 3 or 4) indicating the priority of action to be taken by the RAN.

3. Contractor Application

These classifications relate to equipments held by a contractor and apply to the production, reconditioning and repair lines at a contractor's works.

CLASS A—These are essential modifications whose absence involves safety, ability to assemble or function correctly, or grave performance or other operational limitation; such modifications must be embodied irrespective of the delay in delivery or scrap involved.

CLASS B—These are high priority modifications whose absence involves serious performance or other operational limitations. Parts are to be made available as soon as practicable and embodied forthwith; scrap and delay in delivery are permissible when authorised by the Central Modification Committee.

CLASS C—These modifications are important improvements for technical and operational reasons, and are required to be embodied in production as soon as parts can be made available. Such modifications are also to be embodied during reconditioning and/or repair; in the case of repair only, embodiment is limited to those modifications which can be embodied without further stripping. Scrap is permissible when authorised by the Central Modification Committee.

CLASS D—These modifications are improvements of lesser importance, which are to be embodied in new production, provided no scrap or delay is involved. Embodiment on reconditioning and/or repair should only take place when stocks of unmodified spares are exhausted.

4. RAN Application

The classifications in this section relate to equipments already delivered by a production contractor. Use of any of the four classes listed below implies that the equipments have been delivered to, and are held by, another Contractor who is responsible for major assembly, or are held by the RAN.

CLASS 1—These are essential modifications whose absence involves safety, ability to assemble or function correctly, or grave performance or other operational limitation. Embodiment is compulsory, and of immediate importance, and all spares must be modified immediately or scrapped if they cannot be modified.

CLASS 2—These are high priority modifications whose absence involves serious performance or other operational limitations. Embodiment is compulsory to the extent decided by the Central Modification Committee and set out in the appropriate Modification Leaflet.

CLASS 3—These are modifications of lesser importance than Class 2, but are such that the gain through incorporating them is judged by the Central Modification Committee to outweigh the cost and effort of retrospective embodiment. Embodiment is compulsory to the extent determined by the Central Modification Committee and set out in the appropriate Modification Leaflet.

CLASS 4—These modifications are non-retrospective and do not affect the interchangeability of spares. They will be applied in due course to all spares manufactured in the future. Scrap of old type spares is permitted when authorised by the Central Modification Committee. Such cases will be indicated by the term "on replacement".

5. Pre-release Application

CLASS AA—These modifications are those whose incorporation is essential before release to the RAN can be made. Such modifications must be embodied under contract in all equipments prior to delivery.

Note—This class cannot apply once equipment of the type or mark concerned has been delivered to the RAN and has therefore, limited applicability to PDS tasks.

6. Special Order Modifications

These are modifications to satisfy a limited operational need. The extent of embodiment will be determined by the Central Modification Committee.

SECTION 3—MODIFICATION COMMITTEES

There will be four Local Modification Committees established under Department of the Navy chairmanship whose function will be to consider proposed modifications in technical detail and make recommendations to a Central Modification Committee which will be the sole authority for adoption of modifications. Figure 2 in Section 4 is a flow chart showing the machinery for processing modifications. It should be noted in particular that modifications should normally only come before the Local Modification Committee once. The Co-ordinating Design Authority should ensure adequate technical representation by the Design Authorities concerned with modifications to be discussed at a meeting of a Local Modification Committee.

2. Local Modification Committees

(a) There are four Local Modification Committees—

- (i) Propulsion.
- (ii) Missile.
- (iii) Launcher and Handling Equipment.
- (iv) Guidance.

(b) A detailed summary of the equipments for which the respective LMC's are responsible is shown in Table 1 in Section 4.

(c) *Composition of Local Modification Committees*—

(i) Chairman as appointed by DWE except Propulsion LMC where the chairman will be INO Melbourne.

(ii) *Permanent Members*—

- Co-ordinating Design Authority Representative.
- Production Authority Representative.
- DNQA Representative
- DAS (Missile LMC only).
- Minute Secretary (appointed by Co-ordinating Design Authority).

(iii) *Non-permanent Members*—The Chairman may request attendance of representatives of the following organisations—

- DAS (except Missile LMC).
- DNS.
- Design Authorities.
- Co-ordinating R & D Authority.
- Other interested parties.

(d) *Functions of Local Modification Committees*—

- (i) Consider all proposals for modifications.
- (ii) Make recommendations to the Central Modification Committee on—
 - (1) The proposed application of each modification.
 - (2) Cost estimates submitted by Design Authorities.
 - (3) Retrospective modification or the point in the production line at which each modification should be embodied.

(iii) After approval of a modification by the Central Modification Committee—

(1) Ensure that all documentation and handbook amendments, modification leaflets, etc., are prepared for issue.

(2) Continually review the preparation of modifications.

(iv) Recommend reference to the R & D Authority when a proposed modification may affect system performance as specified by the Agreed Characteristics.

3. Central Modification Committee

(a) Composition—

(i) Permanent Members—

Chairman (appointed by DWE).

Production Authority (Department of Supply) Representative.

DAS Representative.

DNS Representative.

CINO Representative.

Local Modification Committee Chairman (as concerned).

Secretary (appointed by DWE).

(ii) *Non-permanent Members*—The Chairman may request attendance from time to time of representatives of the following organisations—

DTWP.

PEE.

PNA

Co-ordinating Design Authority.

Co-ordinating R & D Authority.

Other interested parties.

(b) Functions of the Central Modification Committee—

(i) To consider all modification proposals forwarded from Local Modification Committees.

(ii) To ensure system compatibility of all proposed modifications.

(iii) To decide on and refer to the A & A Committee all A & A (Alteration & Addition) actions arising from the proposed modifications.

(iv) To authorise funds through the appropriate Naval Supply Directorates for all approved modifications.

(v) To decide whether retrospective embodiment is necessary.

(vi) To consider and recommend to the Approving Authority on the introduction of new marks or models arising from the introduction of modifications.

(vii) To authorise Local Modification Committees to proceed with the introduction of approved modifications.

(viii) To refer to the Co-ordinating R & D Authority any proposed modifications which may affect system performance as specified in the Agreed Characteristics.

4. Urgent Modifications

When the Chairman of a Local Modification Committee considers that a proposed modification is of an urgent nature he may approve a modification to proceed pending ratification at the next meeting of the Central Modification Committee.

5. Equipments Not Transferred From R & D

Modification proposals for equipments or MRI groups which are an R & D responsibility will be raised by the appropriate R & D Authority and submitted to the Local Modification Committee. On request the Chairman of the Local Modification Committee will allocate a distinguishing block of modification numbers to the R & D Authority for this purpose.

SECTION 4—MODIFICATION PROCEDURES

Proposing and Raising Modifications

(a) Modifications proposed by Naval Authorities and not covered by Form AS 2022 are to be submitted by letter to DWE headed "Ikara Modification Proposal—Missile, Launcher and Handling or Guidance" as appropriate.

(b) Where a proposal is considered of merit, details of the proposal will be forwarded by letter to the appropriate Co-ordinating Design Authority. After allocation of a modification proposal number this authority will detail the appropriate Design Authority/s to proceed with the modification proposal investigation.

(c) Design Authorities are also empowered to raise modification proposals. These must be submitted by letter to the Co-ordinating Design Authority. In such a case the Co-ordinating DA must critically examine the merit of the proposal and if considered of merit allocate a proposal number and authorise investigation.

(d) Items returned for repair are accompanied either by a Form AS 2022 and/or AS 2061Z. Initiation of modification action as a result of items returned under the Form AS 2022 will be the responsibility of DWE or DAS as appropriate.

2. Modification Proposal Investigation

(a) All proposed modifications will be discussed by the Local Modification Committee. The appropriate Design Authority shall be prepared to discuss the technical implications of a modification in detail and support all Forms DW 300 with appropriate drawings and circuit diagrams.

(b) The modification proposal must clearly indicate the implications of the modification. For example, a modification may require a concurrent modification to be raised via another Co-ordinating Design Authority.

(c) In cases where more than one Design Authority or Co-ordinating Design Authority is involved as a result of a single modification proposal then the Co-ordinating Design Authority responsible for the original proposal is the designated co-ordinator. When the modification is considered at LMC level details of associated modifications must also be available.

(d) Urgent and mandatory modifications may be approved out of session by the LMC Chairman. Advice of such approvals is to be signalled to DWE for the Central Modification Committee and subsequently presented in the normal form for ratification.

(e) The LMC will—

- (i) Accept or reject the DA recommendations concerning modifications.
- (ii) If, after discussion a proposed modification is recommended, Forms DW 300 (or similar form) is signed by the Chairman of the LMC. The tracing and three prints of this form are forwarded to DWE for the Central Modification Committee.
- (iii) In cases where concurrent modifications are required then DW 300 is to be accompanied by a summary of such modifications.

3. Modification Implementation

- (a) All modifications submitted to the Central Modification Committee as recommended modifications will be either—
 - (i) *Rejected*—DW 300 will be returned to Secretary of LMC with summary of reasons for rejection.
 - (ii) *Approved*—DW 300 tracing will be returned to LMC signed by finance authority. Two prints are retained by finance authority and one by DWE.
- (b) The return of DW 300 gives advance notice that an official order is being raised for the production implementation of the modification and the manufacture of modification kits, etc.
- (c) The Secretary of the LMC will direct copies of DW 300 to the Production Authority as advance notice for the incorporation of modifications in production, and for production of modification kits, etc., and to the Design Authority as advance notice of the need for a modification leaflet and a draft handbook amendment. Details of modification leaflets are promulgated in Section 5.
- (d) The official orders in support of the approved modification shall be forwarded to the appropriate Co-ordinating Design Authority who will then process the order.
- (e) Modification kits are to be delivered to the store of Weapon Equipment Stores Officer, Sydney or Maribyrnong, or Superintending Naval Stores Officer, Sydney, as appropriate. Availability of modification kits is to be communicated to DWE by the CDA as regular progress summaries.
- (f) Instructions for retrofit incorporation will be issued by DWE (advised by DAS in the case of missile modifications).
- (g) Modification kits delivered to Naval Storing Authorities must include the modification number and order number on the package label.

4. Modification Recording

- (a) The updating of drawings subsequent of modification action is detailed by DW 7915.
- (b) Draft handbook amendments resulting from a modification are to be produced by the Design Authority. Actual handbook amendment publication will be the responsibility of DWE.
- (c) Strike numbers must be recorded on all Forms DW 300 submitted to the Central Modification Committee. If proposal is rejected strike number may be used again.

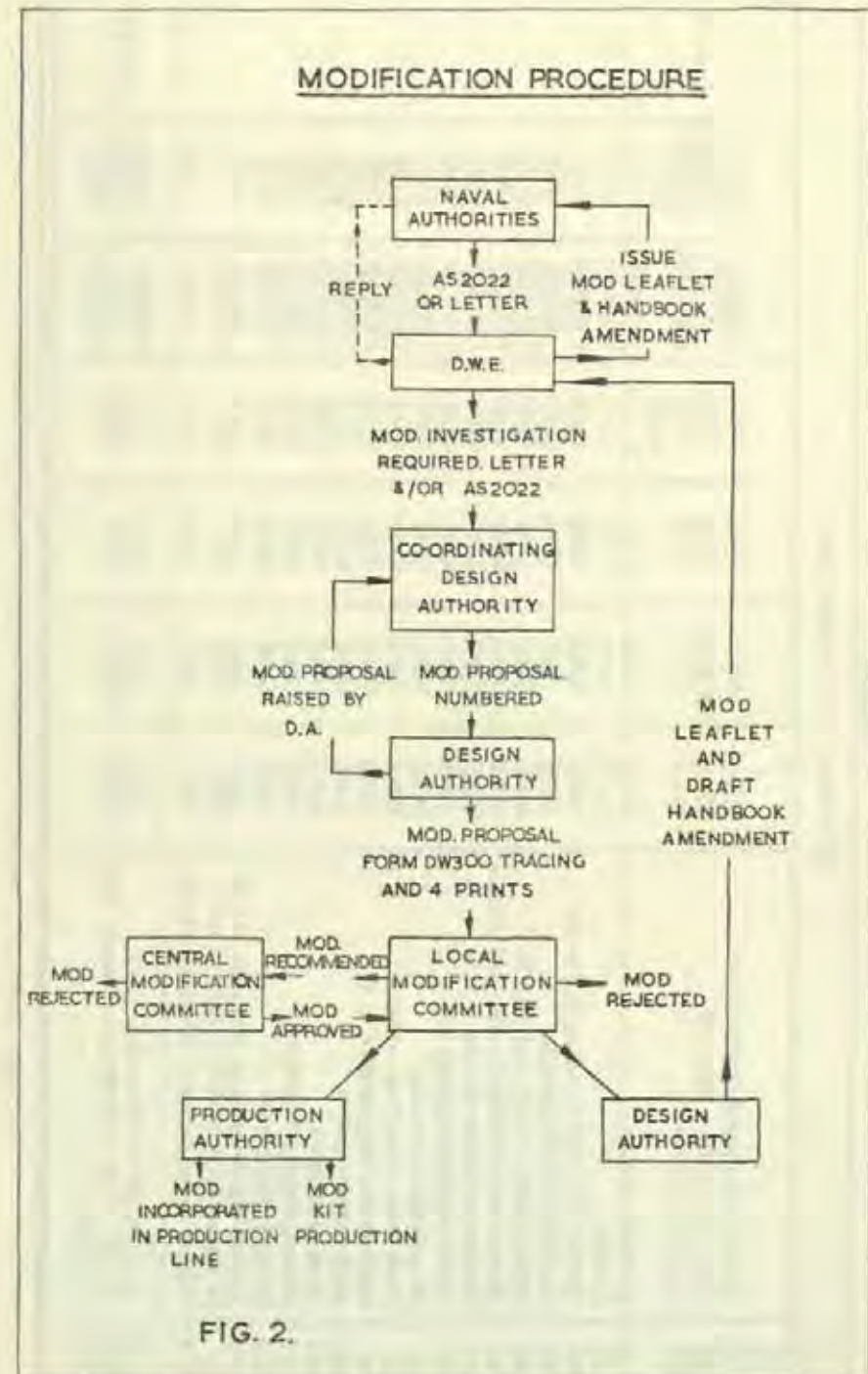


TABLE 1
MRI Group "D"—Special Tools

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
D1	Special Tools and Handling Equipment ..	ARL	ARL	GAF	GAF	Missile	—	
D2	Handling Trolley—Missile	ARL	ARL	GAF	GAF	Missile	GAF	
D3	Lifting Device Trolley and Missile ..	ARL	ARL	GAF	GAF	Missile	GAF	
D4	Towbar for Handling Trolley and Missile	ARL	ARL	GAF	GAF	Missile	GAF	
D5	Protective Covers—Missile	ARL	ARL	GAF	GAF	Missile	GAF	
D6	Store—Missile Balancing Rig	ARL	ARL	GAF	GAF	Missile	GAF	
D7	Sling—Missile, Vertical	ARL	ARL	GAF	GAF	Missile	GAF	
D8	Vertical Handling Tool—Missile ..	ARL	ARL	GAF	GAF	Missile	GAF	
D9	Vertical Handling Tool—C o. G ..	ARL	ARL	GAF	GAF	Missile	GAF	
D10	Sling Motor	ARL	ARL	GAF	GAF	Missile	GAF	
D11	Dummy Wing	ARL	ARL	GAF	GAF	Missile	GAF	
D12	Dummy VSU	ARL	ARL	GAF	GAF	Missile	GAF	
D13	Dummy VSL	ARL	ARL	GAF	GAF	Missile	GAF	
D14	Elevon Travel Indicator (Drawing M3-90-381)	ARL	ARL	GAF	GAF	Missile	GAF	
D15	Elevon Travel Indicator (Drawing M3-90-382)	ARL	ARL	GAF	GAF	Missile	GAF	
D16	Standard Missile Balancing	ARL	ARL	GAF	GAF	Missile	GAF	
D17	Special Tools and Gauge—Cannon Plug Assembly	ARL	ARL	GAF	GAF	Missile	GAF	

MRI Group "L"—Launcher, Magazine and Shipboard Handling Equipment

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
L1	Launcher, Magazine and Shipboard Handling Equipment	DWE	DWE	CAC	CAC	Launcher	—	
L2	Launcher Installation	DWE	DWE	CAC	CAC	Launcher	CAC	
L3	MQO's Station Installation	DWE	DWE	CAC	CAC	Launcher	CAC	
L4	MAR Installation	DWE	DWE	CAC	CAC	Launcher	CAC	
L5	Magazine Installation	DWE	DWE	CAC	CAC	Launcher	CAC	
L6	Pump Room Installation	DWE	DWE	CAC	CAC	Launcher	CAC	
L7	Relay Panel	DWE	DWE	CAC	CAC	Launcher	CAC	
L8	Fuse Panel	DWE	DWE	CAC	CAC	Launcher	CAC	
L9	Detection Control Panel	DWE	DWE	CAC	CAC	Launcher	CAC	
L10	Heater Control Panel	DWE	DWE	CAC	CAC	Launcher	CAC	
L11	Embarkation Provisions	DWE	DWE	CAC	CAC	Launcher	CAC	
L12	Special Tools	DWE	DWE	CAC	CAC	Launcher	CAC	
L13	Emergency Firing Panel	DWE	ARL	GAF	GAF	Missile	GAF	
L14	Trolley	DWE	DWE	CAC	CAC	Launcher	CAC	
L15	Carriage	DWE	DWE	CAC	CAC	Launcher	CAC	
L16	Training Control	DWE	DWE	CAC	D & W WRE	Launcher	D & W WRE	
L17	Umbelical Connector	DWE	ARL	GAF	GAF	Launcher	Dunlop	
L18	Firing Transformer Assembly	DWE	ARL	GAF	GAF	Missile	GAF	
L19	Firing Circuit Interconnecting Box ..	DWE	ARL	GAF	GAF	Missile	GAF	
L20								
L21								
L22								

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
L23								
L24								
L25								
L26								
L27								
L28								
L29								
L30								

MRI Group "M"—Missile

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
M1	Missile GA (as on Launcher)	ARL	ARL	GAF	—	Missile	—	
M2	Missile (less Wings and SVU)	ARL	ARL	GAF	GAF	Missile	—	
M3	Missile (less SVL)	ARL	ARL	GAF	GAF	Missile	—	
M4	Body Guided Missile	ARL	ARL	GAF	GAF	Missile	—	
M5	Pack Parachute Torpedo	ARL	ARL	GAF	ARL	Missile	GAF	
M7	Motor and Attachments	ARL	WPD	GAF	EFM	Missile	EFM	
M8	Auto-pilot—Guided Missile	ARL	ARL	GAF	GAF	Missile	GAF	
M9	Gyroscope Displacement	ARL	ARL	GAF	ARL	Missile	NIC	
M10	Battery Power Supply	ARL	ARL	GAF	ARL	Missile	MSE	

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M11	Power Supply (DC-DC Converter)	ARL	ARL	GAF	ARL	Missile	Trimax	
M12	Electronic Pack Control	ARL	ARL	GAF	GAF	Missile	AFF	
M13	Amplifier Direct Current	ARL	ARL	GAF	GAF	Missile	GAF	
M14	Stabiliser Vertical Upper	ARL	ARL	A & GWS	WPD	Guidance	EMI	
M15	Altitude Control	ARL	ARL	GAF	ARL	Missile	NIC	
M16	Actuator Control Surface	ARL	ARL	GAF	GAF	Missile	FACA	
M17	Electrical Cable Installation	ARL	ARL	GAF	GAF	Missile	GAF	
M18	Torpedo and Parachute Assembly	ARL	ARL	GAF	ARL	Missile	RAN	
M19	Chassis Electrical Auto-pilot Support	ARL	ARL	GAF	GAF	Missile	GAF	
M20	SVU Structure	ARL	ARL	GAF	ARL	Missile	GAF	
M21	Body Section Fitted	ARL	ARL	GAF	GAF	Missile	GAF	
M22	Release Unit	ARL	ARL	GAF	GAF	Missile	GAF	
M23	Inertia Generator	ARL	ARL	GAF	GAF	Missile	GAF	
M24	Wing	ARL	ARL	GAF	GAF	Missile	GAF	
M25	SVL	ARL	ARL	GAF	GAF	Missile	GAF	
M26	Deflector Jet	ARL	ARL	GAF	ARL	Missile	GAF	
M27	Detonator Expansion Bolt Hinged Fairing	ARL	DSL	GAF	DSL	Missile	EFM	
M28	Detonator Expansion Bolt Band Release	ARL	DSL	GAF	DSL	Missile	EFM	
M29	Cartridge Torpedo Ejection	ARL	DSL	GAF	DSL	Missile	EFM	
M30	Fairing and Stabiliser Support Break-off Assembly	ARL	ARL	GAF	GAF	Missile	GAF	
M31	Transformer Split	ARL	ARL	GAF	GAF	Missile	GAF	
M32	Fairing Rocket Motor	ARL	ARL	GAF	GAF	Missile	GAF	
M33	Fairing Equipment Bay	ARL	ARL	GAF	GAF	Missile	GAF	
M36	Nose Cone	ARL	ARL	GAF	GAF	Missile	GAF	
M37	Body Section Structure	ARL	ARL	GAF	GAF	Missile	GAF	
M38	Shaft Assembly Actuator	ARL	ARL	GAF	GAF	Missile	FACA	
M39	SVU Structure Assembly	ARL	ARL	GAF	ARL	Missile	GAF	
M40	Microwave Aerial and Fairing	ARL	WPD	GAF	ARL	Missile	GAF	
M41	Microwave Aerial	ARL	WPD	A & GWS	WPD	Guidance	EMI	
M42	Aerial and Fairing Assembly	ARL	WPD	A & GWS	WPD	Guidance	GAF	
M43	Fairing Sub-assembly	ARL	WPD	GAF	ARL	Missile	GAF	

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
M44	IF Amplifier	ARL	WPD	A & GWS	WPD	Guidance	EMI	
M45	Modulator	ARL	WPD	A & GWS	WPD	Guidance	EMI	
M46	EHJ Converter	ARL	WPD	A & GWS	WPD	Guidance	EMI	
M47	Delay Line Unit	—	WPD	A & GWS	WPD	Guidance	EMI	
M48	UHF Receiver	—	WPD	A & GWS	WPD	Guidance	EMI	
M49	Guided Missile—Main Assemblage (Practice Missile—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M50	Guided Missile—Anti-submarine (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M51	Cartridge Parachute Ejection	ARL	DSL	GAF	GAF	Missile	EFM	
M52	Guided Missile—Main Assembly less SVL (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M53	Body—Guided Missile (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M54	Torpedo and Parachute Assembly (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	—	
M55	Telemetry Sender (Recoverable and Non-recoverable)	ARL	ARL	GAF	GAF	Missile	EMI	
M56	Antenna Assembly Port (Recoverable and Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M57	Body Section—Guided Missile (Practice—Non-recoverable and Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M58	Electrical Installation Cable Run and Clipping (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M59	Electrical Installation Cable Run and Clipping (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M60	Guided Missile—Anti-submarine (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	

M61	Guided Missile—Main Assembly (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M62	Guided Missile—Main Assembly less SVL (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M63	Body—Guided Missile (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M64	Body Section—Guided Missile (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M65	Automatic Pilot—Guided Missile (Practice—Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M67	Electronic Pack Control (Practice) ..	ARL	ARL	GAF	GAF	Missile	WRE	
M68	Nose Section Parachute (Practice—Recoverable)	ARL	ARL	GAF	ARL	Missile	GAF	
M69	Nose Cone Assembly (Practice—Recoverable)	ARL	ARL	GAF	ARL	Missile	GAF	
M70	Automatic Pilot—Guided Missile (Practice—Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M71	SVL (with Ballast) (Practice—Recoverable and Non-recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	
M72	Antenna Assembly Starboard (Practice—Non-recoverable and Recoverable)	ARL	ARL	GAF	GAF	Missile	GAF	

MRI Group "P"—Packaging and Transport Fixtures

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MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
P1	Packaging and Transport Fixtures ..	—	—	GAF	—	Missile	—	
P2	Airframe Unboosted—Transport Fittings ..	—	ARL	GAF	GAF	Missile	GAF	
P3	Transport Container with Furnishings (Box N(A)1 Mark 1)	—	RAN	GAF	GAF	Missile	GAF	
P4	Dummy Torpedo	—	RAN	RAN	RAN	Missile	NA	
P5	Dummy Motor Fittings	—	GAF	GAF	GAF	Missile	GAF	
P6	Motor Container (Box N(A)2 Mark 1) ..	—	WPD	GAF	EFM	Missile	OFM	
P7	Torpedo Container	—	RAN	RAN	RAN	Missile	NA	
P8	Wing and Stabilisers Container	—	ARL	GAF	GAF	Missile	GAF	
P9	Box—Wing Storage and Furnishings ..	—	ARL	GAF	GAF	Missile	GAF	
P10	Box—SVU and Furnishings	—	ARL	GAF	GAF	Missile	GAF	
P11	Box—SLL and Furnishings	—	ARL	GAF	GAF	Missile	GAF	
P12	Warhead Container	—	RAN	RAN	RAN	Missile	NA	
P13	Cartridge Torpedo Ejection Container ..	—	DSL	RAN	DSL	Missile	NA	
P14	Detonator Container	—	DSL	RAN	DSL	Missile	NA	
P15	Band Release Detonator Fittings	—	DSL	RAN	DSL	Missile	D of S	
P16	Rear Fairing Detonator Fittings	—	DSL	RAN	DSL	Missile	D of S	
P17	Torpedo Parapack Container	—	ARL	GAF	GAF	Missile	GAF	
P18	Torpedo Straps Container	—	ARL	GAF	GAF	Missile	—	
P19	Missile Parapack Container (Practice Missile—Recoverable)	—	ARL	GAF	GAF	Missile	—	
P20	Auto-pilot and Actuator Container ..	—	ARL	GAF	GAF	Missile	GAF	
P21	Box—Auto-pilot and Furnishings	—	ARL	GAF	GAF	Missile	GAF	
P22	Box—Actuator and Furnishings	—	ARL	GAF	GAF	Missile	GAF	
P23	Gyro Container	—	ARL	GAF	GAF	Missile	GAF	

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P24	DC-DC Converter Container	—	ARL	GAF	GAF	Missile	GAF	
P25	Ne-work Pack Container	—	ARL	GAF	GAF	Missile	GAF	
P26	Thermal Battery Container	—	ARL	GAF	GAF	Missile	GAF	
P27	Power Amplifier Container	—	ARL	GAF	GAF	Missile	GAF	
P28	Support Chassis Container	—	ARL	GAF	GAF	Missile	GAF	
P29	Cartridge Parapack Ejection Container ..	—	DSL	RAN	EFM	Missile	EFM	
P33	Torpedo Nose Cone Container	—	ARL	GAF	GAF	Missile	GAF	
P34	Inertia Generator Container	—	ARL	GAF	GAF	Missile	GAF	
P35	Release Unit Container	—	ARL	GAF	GAF	Missile	GAF	
P36	Transformer Hale Igniter Container	—	ARL	GAF	GAF	Missile	GAF	
P37	Receiver and Aerial Assembly Container ..	—	ARL	GAF	GAF	Missile	GAF	
P38	Telemetry Sender Container	—	ARL	GAF	GAF	Missile	GAF	

MRI Group "S"—Shipboard Guidance

MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
S1	Shipboard Guidance	WPD	WPD	A & GWS	Lead Firm	Guidance	—	
S2	Command Transmitter	WPD	WPD	A & GWS	STC	Guidance	STC	
S3	Command Aerial	WPD	WPD	A & GWS	STC	Guidance	STC	
S4	Indexing Link	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S5	Analogue Computer CAB 1	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S6	Analogue Computer CAB 2	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S7	Attack Console Mark 1	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S8	Switch and Fuse CAB	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S9	Mains Stabiliser 3 PH	WPD	WPD	A & GWS	Stabilac	Guidance	Stabilac	

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MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
S10	Tracking Aerial Outfit	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S11	Tracking Receiver CAB A1	WPD	WPD	A & GWS	AWA	Guidance	AWA	
S12	Tracking Receiver CAB A2	WPD	WPD	A & GWS	AWA	Guidance	AWA	
S13	Guidance Equipment Console	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S14	Tracking Test Signal Source	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S15	AFC Equipment	WPD	WPD	A & GWS	AWA	Guidance	WRE	
S16	Bearing Channel Switch	WPD	WPD	A & GWS	D & W	Guidance	PEI	
S17	Firing Sequence Equipment	ARL	ARL	GAF	GAF	Missile	GAF	
S18	—	—	—	—	—	—	—	
S19	Digital Encoding System	ARL	ARL	A & GWS	D & W	Guidance	D & W	
S20	Telemetry Receiver Mark 1	ARL	ARL	GAF	ARL	Missile	EMI	
S21	Radome	WPD	WPD	A & GWS	GAF	Guidance	GAF	
S22	Input Selector and SCR Servo Amplifier	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S23	Attack Console Marks 2 and 3	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S24	Indexing Link Launcher Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S25	Indexing Link Parabolic Aerial	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S26	Indexing Link Circular Parabolic Aerial	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S27	Tracking Test Aerial	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S28	Mains Stabiliser Twin 1 Phase	WPD	WPD	A & GWS	Stabilac	Guidance	Stabilac	
S29	Compass Comparator and Damping Unit	WPD	WPD	A & GWS	WPD	Guidance	WRE	
S30	Input/Output CAB BR 155	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S31	Exdak CAB BR 166	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S32	Exdak Transmitter Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S33	Exdak Receiver Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S34	Exdak Aerial Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S35	Remote Services Cabinet	WPD	WPD	A & GWS	H & HD	Guidance	H & HD	
S36	Captain's Safety Switch	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S37	Helicopter Controller's Panel	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S38	Cut Down Switch	WPD	WPD	A & GWS	D & W	Guidance	WRE	
S39	Digital Computer BR 133	WPD	WPD	A & GWS	EMI	Guidance	WRE	
S40	Magnetic Tape Controller BR 144	WPD	WPD	A & GWS	EMI	Guidance	WRE	
S41	Exdak Helicopter Transmitter	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S42	Exdak Helicopter Transmit Coder	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S43	Exdak Helicopter Aerial Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S44	Keyboard Printer	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S45	Tracking Receiver Mark 2 (IF CAB)	WPD	WPD	A & GWS	AWA	Guidance	AWA	
S46	Tracking Receiver Mark 2 (AFC CAB)	WPD	WPD	A & GWS	AWA	Guidance	AWA	
S47	WAS/1 Control Unit	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S48	Spares Stowage for CAB A8	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S49	Synchro to Digital Converter	WPD	WPD	A & GWS	EMI	Guidance	EMI	
S50	Exdak Helicopter Aerial Type 3 Outfit	WPD	WPD	A & GWS	EMI	Guidance	EMI	

MRI Group "T"—Test Equipment

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MRI No.	Title	CRDA	R & DA	CDA	DA	Modification Committee	Current Production Contractor	Remarks
T1	Test Equipment	ARL	—	—	—	—	—	
T2	SVU Test Equipment	ARL	WPD	A & GWS	H & HD	Guidance	H & HD	
T3	Distribution Box	ARL	WPD	A & GWS	H & HD	Guidance	H & HD	
T4	CSTE	ARL	ARL	GAF	GAF	Missile	GAF	
T5	Depot Sub-module Test Equipment	ARL	ARL	GAF	GAF	Missile	GAF	
T6	Depot CSTE	ARL	ARL	GAF	GAF	Missile	GAF	
T7	SVU Test Outfit	ARL	WPD	A & GWS	H & HD	Guidance	H & HD	
T8	Deleted							
T9	Instrument CAB D1	ARL	WPD	A & GWS	H & HD	Guidance	EMI	
T10	Shipborne Missile Test Fixture	ARL	ARL	GAF	GAF	Missile	GAF	
T11	Depot Missile Test Fixture	ARL	ARL	GAF	GAF	Missile	GAF	
T12	Missile Mechanical Test Equipment	ARL	ARL	GAF	GAF	Missile	GAF	
T13	Test Missile (on Launcher)	ARL	ARL	GAF	GAF	Missile	GAF	
T14	Test Missile (in Magazine)	ARL	ARL	GAF	GAF	Missile	GAF	
T15	Test Missile (ex Depot)	ARL	ARL	GAF	GAF	Missile	GAF	
T16	Test Missile (ex Factory)	ARL	ARL	GAF	GAF	Missile	GAF	
T17	Inert Motor	ARL	WPD	GAF	GAF	Missile	OFM	
T18	Test Missile Body	ARL	ARL	GAF	GAF	Missile	GAF	
T19	Test Missile Body (Fitted)	ARL	ARL	GAF	GAF	Missile	GAF	
T20	Special Store	ARL	ARL	GAF	GAF	Missile	GAF	
T21	Test Missile Electrical Cable Installation	ARL	ARL	GAF	GAF	Missile	GAF	
T22	Text-box Cable Break Out	ARL	ARL	GAF	GAF	Missile	GAF	
T23	Detector Firing Pulse	ARL	ARL	GAF	GAF	Missile	GAF	
T24	Depth Setter Torpedo	ARL	ARL	GAF	GAF	Missile	GAF	
T25	Special Store Structure	ARL	ARL	GAF	GAF	Missile	GAF	

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6538/67-3	T26	Panel Indicator	ARL	ARL	GAF	GAF	Missile	GAF
	T27	Fairing and Stabiliser Break-off Assembly	ARL	ARL	GAF	GAF	Missile	GAF
	T28	Test Missile Body Section Structure	ARL	ARL	GAF	GAF	Missile	GAF
	T29	Cable Stowage Torpedo Ejection	ARL	ARL	GAF	GAF	Missile	GAF
	T30	Test Missile Electrical Cable Run	ARL	ARL	GAF	GAF	Missile	GAF
	T31	Test Missile Auto-pilot	ARL	ARL	GAF	GAF	Missile	GAF
	T32	Dummy Gyro Load Electrical	ARL	ARL	GAF	GAF	Missile	GAF
	T33	Power Supply Test Missile	ARL	ARL	GAF	GAF	Missile	GAF
	T34	FSE Load Simulator	ARL	ARL	ARL	GAF	Missile	GAF
	T35	Alignment Aerial	ARL	WPD	WPD	WPD	Guidance	EMI
	T36	Local Oscillator Test Unit	ARL	WPD	WPD	WPD	Guidance	—

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SECTION 5—MODIFICATION LEAFLETS

There are three separate formats of modification leaflets—

- (a) The Missile.
- (b) The Launcher and Handling System.
- (c) All other equipments.

2. As a general rule a modification leaflet is required for every approved modification.

3. The Launcher and Handling System Leaflet has been in use for some time and is basically designed for the more mechanical aspects of this area. This will continue to be used for modification of all equipments under the jurisdiction of the Launcher and Handling LMC.

4. A pro forma of the leaflet applicable to equipments grouped under Paragraph 1 (c) is shown at Appendix A. Required paragraph headings are shown, together with the authority considered responsible for their compilation. A short explanation of the required contents of each paragraph is also given.

5. Actual publication of the leaflets will be the responsibility of DWE. Leaflets provided by the Design Authorities are to be on tracing paper. They are to be of page size 11-in. by 8½-in. with a left hand binding margin of 1¼-in.

6. A sample of the leaflet pro forma to be used for missile modifications is shown as Appendix B.

APPENDIX A

FORM DW 322

CLASSIFICATION
(To be decided at LMC)

Ikara Weapon System

Mod. No.: SM 9999
MRI No.: S 2

Recommended by: Guidance LMC No.: 60
Chairman: J. Smith Date: 10.6.67

Approved for Issue

DWE: B. Brown
Date: 1.7.67

Reason for Modification (DA)

Short description as to why the modification was raised.

Part of Equipment Affected (DA)

Details of all equipments/units, etc., requiring modification are to be listed and identified by both titles shown in DW 43965 and by the Naval Stores Ref. No. or equivalent Manufacturer's Part No.

Applicability of Modification (DA)

Equipments/Units, etc., for which the modification is applicable should be identified by Serial Number and present location of items. This is also applicable to spares.

Responsibility for Incorporation (DA) (DWE)

Stating a recommendation whether incorporation of modification should or must be done by Contractor. Decision as to when and where the modification will be incorporated.

Leave blank space 5-in. for use by DWE

Related Modifications (DA)

This information should be provided to the DA by all Co-ordinating DA. The detailed requirements for the related modifications will be shown in their respective modification leaflets.

Action in Respect of Spares (DA) (DWE)

This section should provide information as to the effect of this modification on spares, whether electrical and physical characteristics are affected and general recommendations as to the effect of the modification on spares holdings. DWE will include the actions as a result of these recommendations.

Leave blank space 2-in. for use by DWE

Approximate Time Required for Modification Incorporation (DA)

This is more applicable to modifications to be carried out in situ. It does, however, find application on all modifications as a guide to when units can be spared from ships for modification at the manufacturers' works.

Changes to Handbooks (DA)

A draft of amendments to handbooks is required for every modification. In some cases these amendments may be possibly included under this sub-heading, in others an attachment to the modification leaflet will be necessary.

Drawings Required (DA)

A list of tools other than those normally held for general maintenance work.

Modification Parts List (DA)

This is virtually a detailed list of the components of a modification kit.

Redundant Parts List (DA) (DWE)

This lists units/components removed as a result of the modification. A recommendation should be made as the disposal of expensive items.

Leave blank space 2-in. for use by DWE

Change of Mark, Reference, Part Assembly Numbers (DA)

Should the modification mean a change to part identification such details are to be listed.

Method of Incorporation (DA)

Detailed statement of the operation of incorporating the modification.

Tests After Incorporation (DA)

Tests required to prove performance after completion of modification. In some cases a Test Specification can be quoted.

Effect on Equipment Operation, Handling and Drill (DA)

Changes to performance figures as would be expected to be taken during Planned Maintenance Performance checking. The recording adequately defines the other information required.

Recording (DA)

Details of required strike action.

Strike

- Cabinet or Outfit.
- Unit.
- Sub-unit.
- Card, etc.

Completion Record (DWE/Ship)

- Mod. Kit Received.
- Mod. Incorporated.
- Handbooks Amended.
- AS 2061Z Dispatched.
- PM Documents Amended.
- Item Dispatched.
- Item Returned.

APPENDIX B

FORM ML (IK) 3

*Security Classification (DA)***Modification Leaflet for Ikara Weapons System—Missile, Depot Test Equipment, Depot Handling Equipment, Gauges and Special Tools**

e.g. *Body Guided Missile M3-00-60.*

(Heading to be stated by DA).

Modification Number: e.g., M3DC59.

(To be allocated by CDA).

MRI Number: (To be stated by DA).

Part(s) Affected: (To be stated by DA).

e.g. Safety Interlock Micro Switches (Canopy Switch).

APPENDIX B—continued

Recommended by:

Technically Approved for Submission: (Signed by LMC (M) Chairman).

Date:

Approved for Issue: (DWE).

Date:

Safety Affected: Yes/No (To be decided by DWE/NEESC).

Classification (See Modification Procedures).

Applicability: (The general applicability to be stated by DA. However, in the case of missiles some of the class affected may have been fired and therefore the actual missile serial numbers are to be determined by DWE/DAS).

Reason for Modification: (To be stated by DA).

Related Modifications: (To be stated by DA).

Responsibility for Incorporation: (RAN Armament Depot, Kingswood; By contractor during production; or By Manufacturers' Working Party or in special cases by Ships' Staff)—(Inserted by DWE/DAS).

When to be Incorporated: (DWE/DAS).

Special Instructions: (In cases it may be necessary to issue instructions to ships, etc., particularly when safety is affected or for other reasons (to be determined by DWE or Naval Electrical Explosives Safety Committee)).

Action Regarding Spares: (To be stated by DA).

Modification Kit:

<i>PART Number</i>	<i>Designation</i>	<i>Quantity</i>
--------------------	--------------------	-----------------

(To be stated by DA)

Special Tools and Test Equipment Required:

(To be stated by DA).

Applicable Drawings:

(To be stated by DA).

Amendments to Handbooks, TIADS, Test Specifications, Test Sheets, etc.

(To be determined by DWE/DAS).

Redundant Parts:

<i>Part Number</i>	<i>Designation</i>	<i>Quantity</i>
--------------------	--------------------	-----------------

(To be stated by Design Authority).

Disposal of Redundant Parts:

(To be determined by DWE/DAS).

Changes of Part(s) Identification.

(To be stated by DA).

Estimated Time of Completion:

(To be supplied by DA).

APPENDIX B—*continued*

- e.g. (a) Stripping.
(b) Embodiment.
(c) Re-assembly.
(d) Test.

Strike Action (if any): (DA).

Method of Incorporation:

(To be stated by DA).

Tests to be carried out after Incorporation:

(To be Stated by DA).

Recording:

(To be recorded in the appropriate Log Books, Part Sheets, Change Numbers to Specifications, TIADS, etc.). All results of tests to be recorded in the relevant test sheets when applicable. (To be determined by DWE/DAS/NEESC).

2. Navy Order 227 of 1967 is relevant.

(DWE 740/252/700)

(*Navy Order 227 of 1967*)

ANO's 255-263/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
6th June, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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**Section 2
PERSONNEL**

UNCLASSIFIED

255—Aircrew—Abolition of (F) Category

It has been decided that there is no longer a requirement for the (F) Aircrew Category.

2. In future an Aircrew Officer who has qualified as both pilot and observer will be posted (P) or (O) according to the flying duties he is required to perform.

3. Where it is necessary to indicate that the officer is qualified in both categories, he will be shown as OP or PO in the order in which he gained these qualifications.

(DOA 303/2/35)

UNCLASSIFIED

256—Award of Engineroom Watchkeeping Certificate to POME's—No Longer Required

The Naval Board desire to bring to the attention of all concerned that because of the increasing number of qualified ERA's and Mechanics available for posting to ships there is no longer a need for LME's and POME's to be trained for Engineroom Watchkeeping Certificate.

2. Payment of the allowance in accordance with Paragraph 4 of Navy Order 273 of 1965 will continue, but those LME's and POME's who have completed the EW Course and who fail to be awarded the EWC within two years of completion of their course are to have their service documents noted as no longer qualified for the award of the ten cents per day allowance and the allowance is to be discontinued from that date.

3. This order will be reprinted for posting on notice boards.

(DMT 303/21/101)

(Navy Order 273 of 1965)

UNCLASSIFIED

257—Early Issue of Trade Certificates

Partially completed Trade Certificates will be forwarded to ships and establishments for completion and issue approximately six weeks prior to discharge.

2. Where earlier issue of a Trade Certificate is required in order to assist the sailor in obtaining civilian employment, the certificate will be forwarded upon receipt of a request in Navy Office.

(HPB 464/54/434)

UNCLASSIFIED

258—Fees Payable to Medical Practitioners, Radiologists, Radiographers, Speech Therapists, Physiotherapists, Occupational Therapists, Chiropodists and Orthoptists

Navy Order 777 of 1965 is to be amended as follows—

Appendix A—

Item 10—Column " Fee "—

Delete existing sessional fees in (a) and (b) insert the following—

Senior Specialist

First hour	\$12.00
Subsequent half-hours	\$5.00

Junior Specialists

First hour	\$9.00
Subsequent half-hours	\$3.50

2. The above fees are applicable as from 14th April, 1967.

(MDG 327/61/37)

(Navy Order 777 of 1965)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

259—Diving—Reports of Accidents and Unusual Incidents

Navy Order 192 of 1967 is to be amended as follows—

Appendix—

Line 9—

Amend " ANO 332/1966 " to read " ANO 192/1967 ".

(DTWP 177/1/87)

(Navy Order 192 of 1967)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

260—Ammunition—Demolition Stores—637120 Detonators Electric, No. 82 Mark N2—Lots Filled 1954 and Earlier—Withdrawal

(DCI (RN) 156 of 1967)

Information In view of unsatisfactory results of annual inspection/proof and reports of failures by HM ships, all lots of the above detonators filled 1954 and earlier are to be withdrawn from service.

2. Action by HMA ships Return to nearest RAN armament depot for exchange at first opportunity.
3. Safety category .. NMER (BR 862) Article 1705 (1), Category (ff), not dangerous but may have a percentage of failures to function.

(DAS 715/51/329)

UNCLASSIFIED

261—Fixed Issuing Prices for Provisions and Victualling Allowances as from 1st April, 1967

The price list for fresh fruit and vegetables which has operated since 1st January, 1967, has been amended.

2. A revised price list, operative from 1st April, 1967, has been distributed to all HMA ships and establishments.

3. Consequent upon the revision of these prices, the following rates of Victualling Allowances per head per day, will apply as from 1st April, 1967—

	Ashore	Afloat
	\$	\$
Messes of 50 or less victualled from a separate galley ..	0.76	0.78
All other messes of 300 or less	0.75	0.76
Messes of more than 300	0.73	0.75
Additional for ships of the Strategic Reserve ..	—	0.04
Supplementary "Broadside" messing allowance for HMA ships ANZAC, DIAMANTINA, DUCHESS and QUEENBOROUGH	—	0.02
HMAS MELVILLE	0.78	—
HMAS TARANGAU	0.80	—
Cadet Midshipmen at RANC	0.84	See Paragraph 4
Junior Recruits at Training Establishments		
Apprentices at RANATE		
Australian Sea Cadets attending camps and courses ..		

4. The allowance of 84 cents per day for Cadet Midshipmen, Junior Recruits, Apprentices and Australian Sea Cadets is increased to 86 cents per day when victualled on board ships undergoing training and messed separately.

5. Navy Order 72 of 1967 is hereby cancelled.

(D of V 903/51/137)

(Navy Order 72 of 1967)

UNCLASSIFIED

262—Pipes—Steam Feed FFO Systems, Etc.—Small Bore Branch Welds—Failures

RAN Daring Class Destroyers and Type 12 Frigates

Reports have been received of branch weld failures on small bore pipe connections in some RN ships of the following classes—

Type 12 Class Frigates

- (a) FFO sprayer manifold— $\frac{1}{4}$ -in. bore stub to pressure gauge shut-off valve.
- (b) $\frac{1}{4}$ -in. HP Air supply branch to $1\frac{1}{2}$ -in. bore auxiliary HP Sat steam supply to auxiliary feed pump.
- (c) 5-in. bore Main Steam pipe— $\frac{1}{4}$ -in. bore pressure gauge connection.

Daring Class

Stub pipe to dosing pot off feed discharge pipe on economiser side of main feed check.

2. Investigations indicate faulty design in that the connections besides being thin walled are "set-on" with fillet welds. In addition, attached valves have been left unsupported. Unacceptably high stresses have thus been set up in a position of inadequate section and strength, resulting in early weld failure.

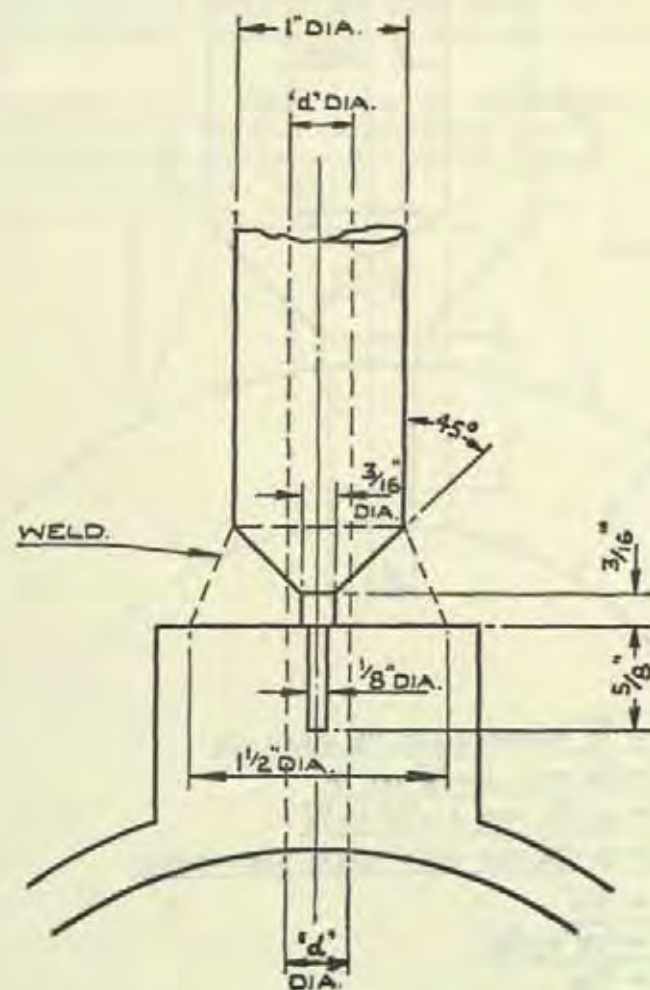
3. The only acceptable and satisfactory designs of small bore connections are shown in Annexes A and B to this order. These pintle type connections provide an increased thickness of branch and ensure full fusion welds.

4. When on examination, it is suspected that the small bore connections are not in accordance with the foregoing requirements, an item is to be included in the ship's main defect list for modification at an early date.

5. MOD (Navy) has advised that BR 3001 (Marine Engineering Technical Instructions) will be amended.

(ACDC 400/1/279)

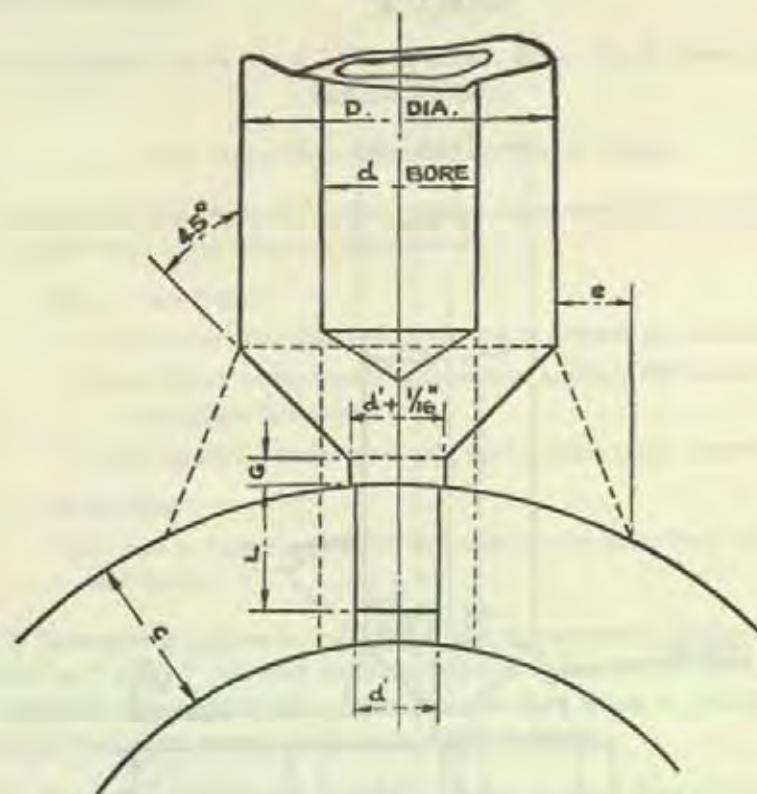
ANNEX A



d' = BORES UNDER 1/2"

NOTE: BORE d' TO BE CONTINUED THROUGH ON COMPLETION OF WELDING.

ANNEX B



$$d = \frac{1}{2} \text{ MINIMUM AND } 1\frac{1}{2} \text{ MAXIMUM}$$

$$d' \begin{cases} = \frac{1}{4} \text{ FOR } d = \frac{1}{2} \text{ TO } \frac{5}{8} \\ = d - \frac{3}{8} \text{ FOR } d = \frac{5}{8} \text{ TO } \frac{7}{8} \\ = d - \frac{1}{2} \text{ FOR } d = 1 \text{ DIAM, AND ABOVE} \end{cases}$$

$$G = \frac{3}{16}$$

$$L = \frac{3}{8} \text{ TO } \frac{5}{8}$$

$$e = \frac{1}{4}$$

NOTE:-

1. BORE d TO BE CONTINUED THROUGH ON COMPLETION OF WELDING
2. WHERE t IS GREATER THAN 1" THE COLLAR DIAMETER OF G SHOULD BE EQUAL TO d' .

UNCLASSIFIED

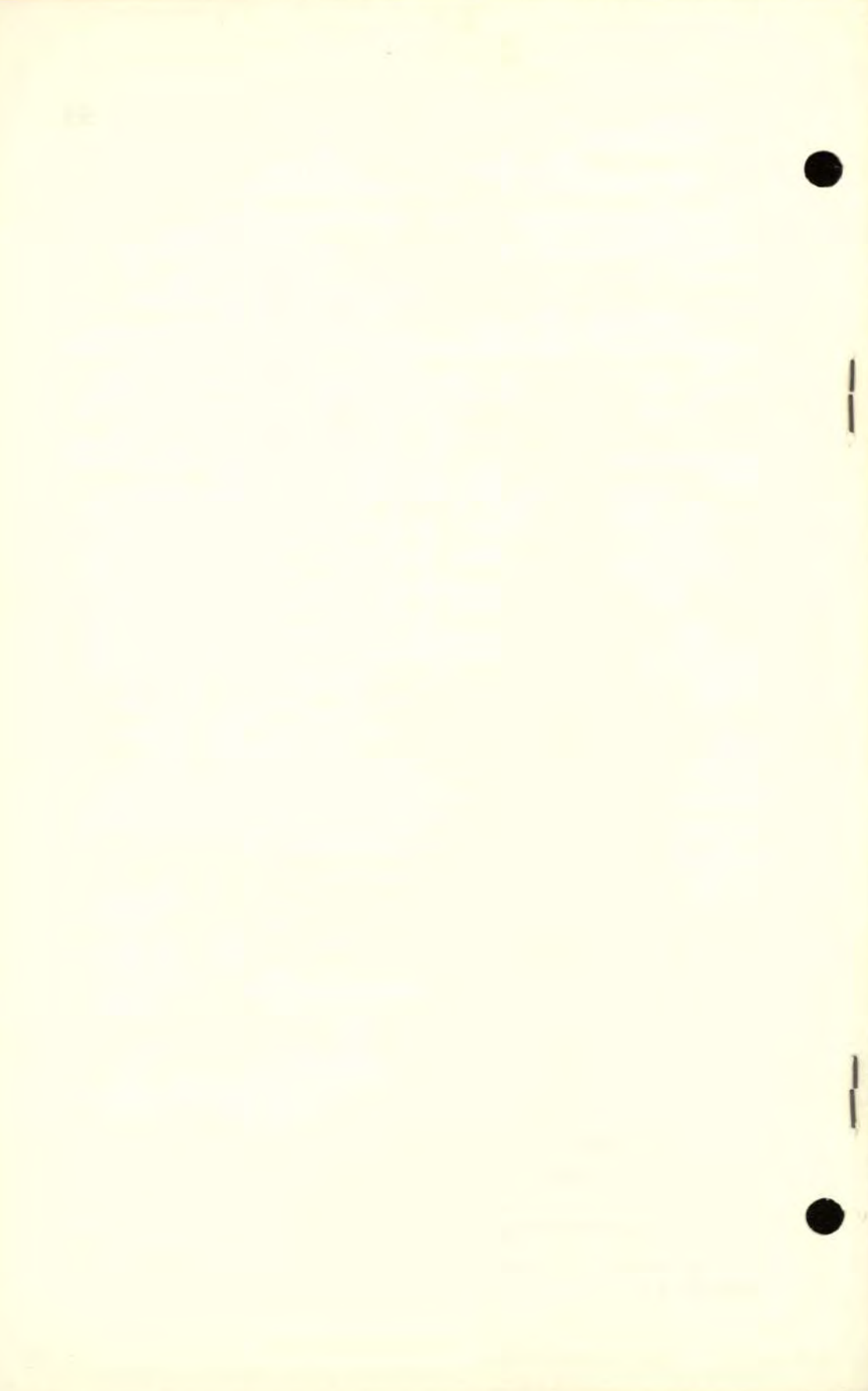
263—Pumps—Worthington-Simpson Portable Salvage Pump

(DCI (RN) 317 of 1966)

Care and discretion must be exercised in the use of 40 tons per hour portable submersible pumps if the present excessive failure rate in service is to be reduced. It is essential that they be operated strictly in accordance with the instructions in BR 3412.

2. In particular it is emphasised that they are intended as salvage pumps, and should not normally be used for hot water, oil, oily or dirty bilge water, etc. They must not be allowed to run dry and after use must invariably be tested for seal leakage by removal of both drain plugs (see Page (6).3.1 of BR 3412). As far as possible the unit should be kept vertical with the motor above the pump when in use.

(PME 400/2/734)





AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
7th June, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

S. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

264—Vaccination and Immunisation

The following order is subject to the provisions of RJ Chapter 44, Section V, Articles 4475-4477. Where requirements relating to civilians are given hereunder it is to be understood that these are included for guidance only and do not imply any responsibility of this department for vaccinations, immunisations, X-rays or Mantoux tests at public expense. Dependants of Naval personnel proceeding outside Australia at departmental expense may, subject to the provisions of this order, be vaccinated, immunised, have a chest X-ray, a Mantoux test and, if necessary, BCG vaccination free of charge at a Naval Medical Establishment, and certificates issued. If preferred, the chest X-ray and Mantoux test may be carried out by the State Health Department Chest Clinics, and immunisations by a civilian medical practitioner at the expense of the dependant (see Paragraph 10). The attention of accompanied married personnel is also drawn to NPI 105/130 Paragraphs 16-19.

2. As it is not practicable to promulgate by navy orders the frequent changes in international regulations for air travel, travellers leaving Australia by air will be informed of their requirements in passage instructions issued by the Naval authorities sponsoring the flight.

RAN Certificates of Vaccination and Immunisation

RAN Personnel—International Certificates

3. In conformity with the regulations of the World Health Organisation, International Certificates are required when travelling by air and may be required by personnel travelling overland or by sea in other than HMA ships. They require stamping with the approved stamp authorised for vaccinations performed by Medical Officers of the Defence Forces acting in their official capacity and the use of this stamp is to be confined to this purpose. Vaccination Certificates are to be signed by a Medical Officer only, never by Sick Berth Staff or other unqualified persons. The correct type of International Certificate is to be used as any other type will not receive international recognition and may cause difficulty between the traveller and foreign officials. A new form of International Certificate was introduced by the World Health Organisation on 1st January, 1967, and all subsequent issues are to be of the new pattern.

As from 1st January, 1967, International Certificates of Vaccination against smallpox must conform with the new format adopted by the World Health Organisation. In this new format there is an addition that the vaccination or re-vaccination has been performed "with a freeze dried or liquid vaccine certified to fulfil the recommended requirements of the World Health Organisation". In addition, space on the certificate has been reserved for the inclusion of the origin and batch number of smallpox vaccine. These requirements must now be met for international travel.

The smallpox vaccine produced by the Commonwealth Serum Laboratories has been officially recognised by the Department of Health as fulfilling the recommended requirements of the World Health Organisation.

For the purposes of Quarantine Clearances Certificates which have been issued prior to 1st January, 1967, and which are satisfactory in all other respects will continue to be valid for the period for which they were previously valid, although these new

amendments may not appear on the certificates. That is to say, certificates issued prior to 1st January, 1967, and in the old format, will be acceptable for the usual period of validity.

For vaccination or re-vaccination performed after 1st January, 1967, the approved stamp may be applied only on certificates in the new format.

New Entry Personnel

4. All new entries are to be given an International Certificate of Vaccination, signed and authenticated as provided for in Paragraph 3, on receiving their first routine vaccination or immunisation. They are to retain the certificate in their possession, and to present it for completion on each subsequent occasion of vaccination or re-vaccination. When the certificate is first issued, the recipient should be informed of his responsibility to take care of it, and warned that failure to produce it when required to do so may involve repetition of some or all of his previous vaccinations.

Serving Personnel

5. Serving personnel who have not already received an International Certificate are to be issued with one at the next opportunity. However, it is to be noted that entries relating to previous immunisations cannot be transferred from the records to an International Certificate unless the Medical Officer who originally performed the immunisation is available to sign the entry.

Replacement of Certificates When Full

6. When the number of spaces allotted to any particular form of vaccination are full, a new certificate is to be issued for subsequent entries, but the old certificate is to be retained as long as any of the entries in it remain valid under the regulations contained in this order. Entries are not to be transferred from the old certificate to the new, as World Health Organisation requirements are that each entry should be signed only by the Medical Officer who actually carried out the vaccination.

Replacement of Lost Certificates

7. An International Certificate which is lost, inadvertently destroyed, or damaged sufficiently to render the valid entries illegible, may be replaced by a new one; but entries are not to be re-created from other records such as vaccination registers or AF Med. 4, unless the Medical Officer who carried out each previous vaccination is available to sign the entry referring to it. Records of previous vaccinations on AF Med. 4 will be accepted, in lieu of International Certificate entries, for Service purposes only. If the new International Certificate is required for overseas travel, re-vaccination will be necessary according to destination and current International requirements.

8. Supplies of the International Certificates of Vaccination are to be obtained from the Medical and Dental Store Officer, Randwick. Dependants who elect to be immunised by a civilian practitioner, at their own expense, may procure their International Certificate in each capital city, through the office of the Department of Health in the State concerned.

Wives and Families of Naval Personnel, Naval Civilian Employees, Their Wives and Families

9. Individual International Certificates are to be completed for each vaccination for dependants proceeding outside Australia.

Counter-stamping and Counter-signing

10. All International Certificates issued by other than Service Medical Officers require to be counter-stamped and counter-signed at the Commonwealth Department of Health in the State concerned. As Yellow Fever Certificates are issued only by recognised centres they do not require such counter signature—see Paragraph 76.

Method of Dating

11. When completing or authenticating International Certificates of Vaccination, the following method of recording the date is to be adopted. The day is written in arabic numerals and appears first; the month is in roman numerals and appears second; and the year is in arabic numerals and appears last. For example, the tenth of August, 1965, should appear as 10.VIII.1965. Failure to conform with this method of dating may invalidate the certificate.

Corrections, Blotches on International Certificates

12. It is of paramount importance that blotches, corrections, etc., on International Certificates be avoided, as these blemishes may be regarded as forgeries by some foreign officials and may result in delay and inconvenience to travellers.

13. All vaccinations and immunisations are to be recorded on the medical envelope, AF Med. 4, as well as in the International Certificate, at the time of vaccination, using the method of dating laid down in Paragraph 11. Personnel being vaccinated are advised to request confirmation from the medical authority performing the vaccination that this has been done. A valid International Certificate of Vaccination is the only documentary evidence that will be accepted for internal service purposes if there is no entry on AF Med. 4.

14. All ships and establishments will, in addition, keep a register in which details of all vaccinations and immunisations will be entered. (Hitherto required for smallpox vaccination only.) If the Medical History Documents of the person vaccinated are not held at the time of vaccination, the details are to be transcribed on to the AF Med. 4 from the vaccination register at the first opportunity.

15. Strict adherence to the intervals between doses of TAB, TABT, TPT and cholera vaccine is to be observed whenever possible. Only in very exceptional circumstances are these intervals to be shortened; they may be increased slightly if necessary. To ensure continuity when sailors are posted before completion of a course of immunisation, RI Article 4475 must be complied with conscientiously.

Smallpox (Compulsory at all Locations)

16. All officers and sailors entering the service are to be vaccinated, or re-vaccinated, using the technique set out below. Further re-vaccination of Active Service Personnel is to be carried out every three years, or more often if circumstances demand. Passengers to or through areas with a high incidence of smallpox should have been vaccinated within the preceding twelve months; such areas will be promulgated from time to time.

Method of Vaccination

17. The area to be vaccinated should be well cleansed with soap and water and must be thoroughly dry before the lymph is applied. Care should be taken not to rub the skin so vigorously as to damage the epidermis and thus encourage the development of secondary vesicle. Methylated spirit, alcohol or other agents should not be applied.

18. The capillary tube containing the vaccine lymph is broken at each end and the lymph shaken down to the broken end. If the end is now touched to the skin at the prepared site, a drop of lymph will be drawn out by capillary attraction; it must not be blown out by applying the lips to the other end of the tube. The lymph should cover an area of about $\frac{1}{4}$ of an inch in diameter. If the capillary tube is broken into several short lengths, each containing lymph, two or more patients can be vaccinated economically from a single tube. A flat-sided needle—straight Hagedorn—which

should be of relatively large size, in good condition, sharp and sterile, is held parallel or tangential to the arm with the fore-finger and middle finger above and the thumb below. The side of the needle point is then pressed firmly and rapidly into the drop for the required number of pressures (see below); the needle is lifted clear of the skin each time and the up and down motion is in a plane perpendicular to the skin. The needle point is not driven into the skin but at each pressure the elasticity of the skin pulls a little of the epidermis over the point of the needle so that the lymph is carried into the deeper epidermal layers. If the skin has not been unduly irritated by a preliminary cleansing procedure and the needle has been properly aligned, no pain or bleeding should occur. As soon as the pressures have been completed, the excess lymph should be wiped off with cotton wool. The immediate application of a dressing is unnecessary. At the stage of maximum reaction, however, a piece of sterile gauze may be placed over the lesion if considered desirable.

19. First vaccination after entry should be done by means of an insertion about $\frac{1}{4}$ of an inch in diameter. If there is a definite scar of previous vaccination, 30 pressures are to be employed in making this insertion. If there is no evidence of previous vaccination, ten pressures only need be employed.

20. Routine re-vaccination is to be done by an insertion with 30 pressures.

21. When re-vaccination is undertaken in the presence of an epidemic or undue prevalence of smallpox, there should be at least two separate areas of insertion with 30 pressures in each.

22. When primary vaccination is performed on infants, 30 pressures should be employed. The best age for vaccination in a thriving infant is from three to four months.

Assessment of Results

23. Accurate reading of the results of vaccination depends both on the period of time after insertion at which the maximum local reaction occurs and on the degree of reaction. Maximum reaction may occur at any time within 2-10 days after vaccination. Inspection should be carried out on the sixth day, to assess the result which is to be recorded as follows—

- (a) Where vesicle formation is absent, a second attempt is to be made. If a similar result is obtained, it is to be recorded as "Reaction of Immunity" (RIV). Immunity is not to be regarded as a life-long categorisation, and such persons are to be re-vaccinated at the usual intervals. The terms "Insusceptible to Vaccination" (ITV) and "no reaction" are no longer to be used.
- (b) Where vesicle formation is present—
 - (i) Where vesicle formation is moderate and is judged to have reached or passed its maximum at the time of inspection (on the sixth day) it should be recorded as "Accelerated Reaction (Vaccinoid)" (AR(V)).
 - (ii) Where vesicle formation is more marked than in (i) and is still developing it should be recorded as "Typical Primary Vaccina" (TPV).
 - (iii) If in doubt whether the reaction has reached its maximum at the sixth day, a further inspection is to be made two days later.

In the International Certificate, the vaccination is recorded only as "Successful" (AR(V) for TPV) or "Unsuccessful" (RIV).

Contra-indications to Smallpox Vaccination

24. Vaccination of pregnant women should be avoided as far as possible, especially during the first three months, when it should be performed only in urgent circumstances. Persons suffering from extensive dermatitis or eczema in an active phase should not be vaccinated except when absolutely necessary and with the concurrence of a skin specialist.

Precautions With Regard to Simultaneous Use of Other Immunising Agents

25. If yellow fever immunisation is necessary, it should precede primary vaccination against smallpox, a period of four days intervening.

26. If circumstances demand that primary vaccination against smallpox be done first, there should be an interval of 21 days from the date of vaccination before the yellow fever immunisation is given.

27. When infants under the age of nine months are to be vaccinated against both yellow fever and smallpox, there should be an interval of 21 days between the two vaccinations, no matter which is performed first. Under no circumstances is the interval to be shortened.

28. Where there is evidence of previous successful vaccination against smallpox yellow fever immunisation and re-vaccination against smallpox may be carried out at the same session but if time permits yellow fever immunisation should always precede re-vaccination by at least four days.

29. Immunisation for other than yellow fever may be given at the same time as vaccination but in the other arm.

Storage of Vaccine Lymph

30. Lymph should be stored in the freezing chamber of a refrigerator, when it will keep for up to twelve months, provided it is not allowed at any time to thaw out. Between 0°-10° C. it will keep only fourteen days, and between 10°-20° C. for no more than seven days. If no reaction is observed on primary vaccination, the lymph may be assumed to have lost its potency, and a second attempt should be made with fresh lymph of a new batch.

International Requirements

31. All Naval personnel and Naval civilian employees and their wives and families, require an International Certificate of Vaccination before leaving Australia.

Certificates

32. Certificates are valid for three years from the eighth day after a successful primary vaccination, or in the event of a re-vaccination, on the date of that re-vaccination. Certificates on the current form, issued up to 1st January, 1966, will remain valid for the normal period. On re-vaccination after that date, however, a fresh certificate of the new pattern is to be issued. The old certificate should be retained until the validity of all other entries has expired—see Paragraph 6. It is to be noted that the new pattern of International Certificate will require the origin and batch number of the vaccine to be inserted, and it will be invalid without such records.

Age of Person Vaccinated

33. Three months and over; in face of special risk may be done at any age.

Typhoid Group of Fevers (Compulsory at all Locations)

34. All officers and sailors are to be immunised on entry against the enteric group of fevers, and re-immunised every three years up to the age of 35. Personnel over the age of 35 need not be re-immunised unless a Medical Officer considers that there is a special risk. Nevertheless, a person over the age of 35 is not to be refused TAB immunisation if he requests it. Except as specified above, all officers and sailors are to be immunised before they join one of HMA ships or proceed outside Australia by any means.

35. The following preparations are to be used in the circumstances stated—

(a) *Intradermal TABT (Typhoid paratyphoid and tetanus combined vaccine).*

For the primary immunisation course on entry—three doses each of 0.1 ml. *intradermally*, with intervals of 4-6 weeks between the first and second, 6-12 months between the second and third injections. This preparation should not be used for subsequent re-immunisations, unless typhoid and tetanus boosters are required at the same time. It is not suitable for children under twelve, who should be immunised against typhoid with the *subcutaneous* vaccine as detailed below.

(b) *Intradermal TAB vaccine.* For re-immunisation as required in Paragraphs 34 and 36 (when tetanus re-immunisation is not required at the same time); as a single intradermal injection of 0.1 ml.

(c) *TAB vaccine BP (subcutaneous).* For primary immunisation and re-immunisation of dependants under twelve years of age. The following two-dose schedule is effective and offers a saving of time and trauma over the three-dose schedule given in the manufacturer's leaflet—

Age	1st Dose	2nd Dose
Below 1 year	Immunisation not advised.
1-5 years	0.1 ml. 0.25 ml.
5-7 years	0.25 ml. 0.25 ml.
8-12 years	0.25 ml. 0.5 ml.

In all cases the interval between injections to be 21-28 days and in no circumstances less than 21 days. It is important that this preparation be injected *subcutaneously*.

36. On foreign stations, where enteric fevers are prevalent, a booster dose of 0.1 ml. *intradermal* TAB or 0.5 ml. *subcutaneous* TAB should be given to all persons on arrival, irrespective of their previous immunisation history. Re-immunisation should then be repeated annually while the subject remains in the endemic area.

37. The immunogenic properties of bacterial vaccine are best preserved at or just below 39° F. (4° C.) and such vaccines deteriorate in protective power when kept for long periods at or above "room" temperatures. All bacterial vaccines should, when possible, be kept in a cool room or refrigerator but should not actually be frozen.

38. Intradermal TAB and TABT are to be given only by Medical Officers. A dangerous reaction could occur if either preparation is injected inadvertently into the subcutaneous or deeper tissues and care must be taken to avoid confusion between the intradermal and subcutaneous preparations of TAB. A tuberculin syringe is always to be used for intradermal injections. Similarly, care is to be taken not to inject the subcutaneous preparation of TAB intramuscularly or intravenously.

39. It is considered undesirable to exercise the injected arm unduly after immunisation with TAB.

International Requirement

40. No international requirement exists at present, but all Naval personnel and Naval civilian employees and their wives and families are to have TAB vaccinations carried out before leaving Australia.

Certificates

41. Certificates are valid immediately on completion of vaccination for a period of three years.

Tetanus (Compulsory at all Locations)

42. All officers and sailors are to be immunised on entry against tetanus using the combined intradermal TABT vaccine as detailed in Paragraph 35. Re-immunisation is required every five years, and is to consist of a *subcutaneous* injection of 0.5 ml. of Tetanus Prophylactic Toxoid (TPT), unless typhoid re-immunisation is due at the same time, when an *intradermal* injection of 0.1 ml. TABT may be used. For children under the age of twelve only the subcutaneous TPT should be given, 0.5 ml. dose for all ages. Personnel of Dominion and foreign navies serving with the RAN, who have not already been immunised, should be encouraged voluntarily to undergo immunisation.

43. When injuries are sustained before completion of the primary immunisation course against tetanus, consideration may have to be given to the administration of Tetanus Anti-toxin, bearing in mind the danger of an anaphylactic reaction to horse-serum. Persons injured after completion of active immunisation should receive an immediate booster dose of 0.5 ml. TPT subcutaneously. Allergic reaction to TPT is uncommon, but if it occurs the patient should be referred to a medical specialist for advice on de-sensitisation.

Warning. TPT is not at any time to be admixed with other prophylactic agents for administration and must only be injected subcutaneously.

International Requirement

44. No international requirement exists at present.

Certificates

45. Certificates are not required, but are valid for five years if given one month after the third injection of TPT.

Anti-poliomyelitis Vaccination (Compulsory at all Locations)

46. From the receipt of this order the following is to be instituted—

The routine use of Inactivated Salk type vaccine is to be discontinued, and "POLIO VIRUS VACCINE, LIVE, ORAL, Sabin type", trivalent is to be used.

47. All personnel are to be immunised as soon as possible after entry. Serving members are to be immunised with the sabin vaccine irrespective of whether they have previously received a course of Salk vaccine.

Primary Immunisation—

1st dose	..	..	..	..	0.2 ml.
2nd dose	..	..	..	..	0.2 ml. 8 weeks later

Method of Administration

48. There are two methods—

- Using the calibrated dropper provided with the Vaccine 0.2 ml. may be placed in a disposable paper cup and the cup half filled with DISTILLED or DEIONISED water before administration. The dose is then drunk by the individual; or
- Using the calibrated dropper provided with the Vaccine the 0.2 ml. of the vaccine may be placed on a sugar cube. The dose is then eaten by the individual.

49. Paper cups are available on indent in the same way as other medical stores. The Catalogue Number is as shown below and should be quoted on demands—

6530-66-026-1158 Medicine cup, paper, disposable, graduated 5 ml. to 30 ml. in 5 ml. graduations.

Re-immunisation (Booster)

50. This will not normally be a requirement except under epidemic or special risk conditions when a single oral dose of 0.2 ml. will be given, Epidemic and special risk conditions will be declared when necessary.

Source of Supply of Vaccine

51. Is available on normal indent as—

6505-60-026-2823	POLIO VIRUS VACCINE, LIVE, ORAL, Sabin type, trivalent.	10 dose
6505-60-026-2824	POLIO VIRUS VACCINE, LIVE, ORAL, Sabin type, trivalent.	100 dose

Precautions

52. Oral poliomyelitis vaccine is not to be given to the following—

- persons suffering from an illness in which there may be failure of immunological response, e.g., Leukaemia;
- persons suffering from Neurological diseases or muscular dystrophies;
- persons who are being treated with immunosuppressive agents, or who have been so treated within the previous month. Such agents include systemic corticosteroids, deep X-ray therapy, alkylating agents and cytotoxic drugs.

53. In the following instances the vaccine should be withheld until the person concerned has made a complete recovery—

- persons with acute systemic infection;
- persons with diarrhoea or a gastro-intestinal illness.

The Medical Officer should ensure that all personnel to be immunised are not suffering from these, or any other adverse conditions.

54. It may be found that some members have already been immunised by the SABIN vaccine before joining the Royal Australian Navy. If this claim is supported by documentary evidence such information may be entered on Table 7 of Form AF Med. 4 and any subsequent necessary completing dose given and recorded. Where documentary evidence is not available a written statement from a parent or guardian or by a member eighteen years of age, or more, may be accepted.

International Requirements

55. There are no international requirements.

Certificates

56. Certificates are not normally required unless requested by the recipient. No entry should be made in the International Certificate.

Tuberculosis-Mantoux Testing and BCG Vaccination (Compulsory at all Locations)

57. All personnel as soon as practicable after entry, are to be skin-tested by the Mantoux test and non-reactors vaccinated with BCG (Bacillus Calmette Guerin) vaccine. Every effort is to be made to have this procedure completed before any officer or sailor joins a sea-going ship or proceeds outside Australia by any means. Dependants of Naval personnel proceeding outside Australia at departmental expense, are required to complete this procedure (and to have a chest X-ray) before embarkation.

58. Arrangements that have already been made with State Directors of Tuberculosis for testing and vaccination of new entries are to stand. In addition, however, it will be necessary for Naval Medical Officers to perform the procedure as convenient on serving members and on dependants proceeding outside Australia. BCG vaccine is to be obtained from the State Division of Tuberculosis concerned, according to the location of the ship or establishment—it is a requirement before BCG vaccine can be issued that the Medical Officer who is to perform the procedure has had some training or experience in it. Medical Officers-in-Charge are to ensure that at least one Medical Officer under their command has the necessary experience, if necessary attending a State Chest Clinic for the purpose, and that thereafter all other Medical Officers attend testing and vaccination sessions in order to obtain such experience.

59. Persons who are particularly likely to be exposed to infection, e.g., medical and dental officers, nursing sisters, sick berth staff and dental attendants, should be priority tested and if negative, vaccinated as soon as possible after entry.

Recording of Test Results and Vaccinations

60. Records are to be made as follows—

- (a) If the initial Mantoux test is POSITIVE, an entry to that effect is to be made in Table 9 of the member's AF Med. 4.
- (b) If the initial test is NEGATIVE, BCG vaccination should be carried out forthwith, and a record of the vaccination made in Table 7 of Form AF Med. 4.
- (c) After 6-8 weeks a second Mantoux test is to be carried out on members vaccinated.
- (d) The result of the second test is then to be entered in Table 9 of Form AF Med. 4.

61. No other vaccination should have been given in the same arm within one month before BCG vaccination, nor should any be given in that arm less than two weeks afterwards, nor into the other arm (or elsewhere) within 24 hours after the Mantoux test or BCG vaccination.

International Requirements

62. None exists at present.

Certificates

63. No certificate is required, and no entry should be made in the International Certificate.

Cholera (Before Proceeding Outside Australia)

64. All personnel and dependants proceeding outside Australia at departmental expense (except when travelling directly to New Zealand) are to be immunised against cholera. Serving personnel posted to a sea-going ship should be immunised before joining, if the ship is programmed to leave Australian waters.

65. Cholera vaccine supplied for Service use comprises 8,000 million organisms per ml.

	1st Dose	2nd Dose
(a) Adults (over 16)	0.5 ml.	1.0 ml.
(b) Children (under 1 year, immunisation not advised)—		
1-5 years	0.125 ml.	0.25 ml.
5-16 years	0.25 ml.	0.5 ml.

The intervals between doses should be 7-28 days. Booster doses, at six monthly intervals, are compulsory whilst serving outside Australia, and should be the same as the second dose.

66. When children are immunised simultaneously with cholera and TAB both vaccines may be mixed in the same syringe, to reduce the number of needle pricks.

Certificates

67. Certificates are valid for a period of six months beginning six days after the first injection. After re-immunisation validity is reckoned from that date.

Plague

68. Protective immunisation against plague consists of a dose of 0.5 ml. of plague vaccine followed by a dose of 1.0 ml. after an interval of seven days. Re-immunisation is required every six months.

International Requirements

69. International requirements vary from time to time and will be promulgated as necessary. At present there is a requirement for all personnel proceeding to Vietnam.

Certificates

70. Certificates are valid for six months from the seventh day after the second vaccination. The interval between vaccinations is nine days. Vaccinations are to be recorded on Page 10 or 11 of the International Certificate.

Age of Person Vaccinated

71. Two years and over.

Typhus (Immunisation When Circumstances Demand)

72. Protective vaccination against typhus consists of three doses of 1.0 ml. of typhus vaccine given at intervals of seven days. Renewed protection against typhus is required after one year.

International Requirement

73. Requirements will be promulgated by signal as necessary.

Certificates

74. Certificates are valid for one year from the seventh day after the last vaccination. Three vaccinations are required at intervals of seven days and are to be recorded on Page 10 or 11 on the International Certificate.

Age of Person Vaccinated

75. One year and over.

Yellow Fever (When Circumstances Demand)

76. Immunisation against yellow fever can only be given at authorised centres by the Commonwealth Medical Officer, Department of Health, of the State concerned, and by appointment only. As much notice as possible must be given this officer, who endeavours to vaccinate in groups of ten if practicable. Stocks of yellow fever vaccine are not maintained in the RAN nor is the vaccine made in Australia.

Precautions With Regard to Simultaneous Use of Other Immunising Agents

77. (a) Similar precautions as for smallpox, Paragraphs 25-28 apply.
 (b) Vaccination against diseases other than smallpox may be given at the same time but in the other arm.

Certificates

78. Yellow fever certificates are valid—
 (a) only if the vaccine and the method employed have been approved by the World Health Organisation;
 (b) from ten days after the date of the vaccination (twelve days if proceeding to Pakistan) except in the case of persons re-vaccinated within the period of validity of their previous International Certificate entry;
 (c) for six years from the date of the last immunisation up to 1st January, 1966. On and after that date all certificates valid under the old regulations may have their validity extended to ten years, by manuscript amendment to the rules printed at the foot of the Yellow Fever page. In the English section *delete* "six" and *insert* "ten"; and in the French section *delete* "six" and *insert* "dix". All vaccinations and re-vaccinations carried out on and after the above date are to be recorded on a certificate of the new pattern, which will be valid for ten years.

International Requirement

79. All Naval personnel and Naval civilian employees and the wives and families of both require an International Certificate of Vaccination against yellow fever before leaving Australia, when—

- (a) proceeding to West or East Africa by air;
 (b) proceeding to West or East Africa by sea, or in ships calling at any ports in those countries;
 (c) proceeding to or through the South American yellow fever endemic area by whatever route;
 (d) proceeding for service afloat on the South Atlantic Station;
 (e) proceeding through Pakistan if unvaccinated subject has been in a yellow fever endemic zone within twelve days prior to arrival in Pakistan;
 (f) proceeding for service on the Arabian Seas and Persian Gulf Station (including those destined for shore establishments).

80. The exact limits of the yellow fever endemic areas in Africa and South America have been defined by the World Health Organisation and this information can be obtained from the Medical Director-General or from the authorities named in Paragraph 76.

Age of Person Vaccinated

81. No lower limit to the age of persons immunised, however—

- (a) No child under two months of age will be vaccinated against yellow fever except in circumstances of great urgency where the actual risk of incurring yellow fever is considered to be greater than that of incurring encephalitis, when considered in relation to both the likelihood of occurrence and the seriousness of the disease.
 (b) Vaccination of children aged two to six months will be avoided as far as possible.
 (c) While it is to be preferred that children between six and nine months of age should not be vaccinated against yellow fever, such vaccination may be carried out without serious risk if delay would impose hardship or grave inconvenience.
 (d) When infants under the age of nine months are to be vaccinated against both yellow fever and smallpox, there should be an interval of 21 days between the two vaccinations, no matter which is performed first. Under no circumstance is the interval to be shortened.
 (e) *Pregnancy*—Risks to the foetus from maternal viraemia consequent upon yellow fever vaccinations are now thought to parallel those due to such naturally occurring viraemias as rubella. Yellow fever vaccination of pregnant women is therefore regarded as most inadvisable and is only to be performed where urgent reasons exist and after the calculated risk involved has been explained to the women. Normally travel for such cases should be arranged by a route for which yellow fever vaccination is not an international requirement. Should a pregnant woman wish to take up residence in a yellow fever endemic area, these risks should be brought to her attention.

General

82. All instructions apply equally to—

- (a) all members of the RAN;
 (b) all members of the CNF and RANER entering for continuous full time service either voluntarily or on call up;
 (c) any civilians, Army and Air Force personnel under RAN control.

83. It is of the utmost importance that the foregoing measures be strictly complied with to ensure that no personnel proceed outside Australia without adequate protection against the infections referred to in this order. It is equally important that the immunisations required within Australia, smallpox, typhoid, tetanus, poliomyelitis and tuberculosis, should be maintained "in date". Ships and establishments are to carry out a quarterly survey and report in the Medical Officers' Journal the numbers not yet fully immunised and the reasons therefor.

84. With the exception of anti-poliomyelitis, BCG and yellow fever vaccines (see Paragraphs 48, 58 and 76) supplies of vaccines should be obtained from the Australian Military Forces in the usual way, ordering by the Commonwealth Serum Laboratory Catalogue. Quantities and sizes of containers ordered must be chosen to effect maximum economy and minimum wastage.

85. Navy Orders 723 of 1965 and 315, 455 and 522 of 1966 are hereby cancelled.

(MDG 327/54/87)

(Navy Orders 723 of 1965 and 315, 455 and 522 of 1966)



REGISTRAR.

RESTRICTED

ANO's 265-279/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
27th June, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Mandau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

RESTRICTED

265—NBCD—Interim CW Decontamination Measures Afloat

(DCI (RN) 129/1967)

This order is issued pending the introduction of improved procedures or equipment which may result from current development and trials.

Emergency Decontamination

2. The methods described herein are intended for use on weather decks of operational ships. The aim, therefore, is to restore full operational effectiveness as soon as possible after it has been reduced by a spray attack with a persistent CW agent.

3. Since it is not possible even after decontamination to achieve a totally "clean ship", the object is to reduce the contamination to a level whereby the ship can continue her operational role without exposing the ship's company to a grave CW risk and to prevent the spread of contamination into the citadel.

4. Even after decontamination it is stressed that because at present there is no means of establishing the contact and residual vapour hazard from remaining contamination it will for some considerable time be necessary to—

- (a) ensure that exposed personnel on weather decks wear full protective clothing and respirators;
- (b) maintain the citadel;
- (c) control entry and exit of personnel to and from the citadel;
- (d) carry out full cleansing station procedures.

5. A ship can continue to operate with little danger even if large areas such as the ship's side remain contaminated, provided the risk is appreciated and controlled. In due course, all known CW agents are destroyed by weathering and this may avoid the necessity of attempting to decontaminate the entire ship. However, should maintenance or repair work be called for on any particular piece of exposed equipment, such as an aerial, it will need decontaminating as soon as the need arises without waiting for weathering to take its long-term effect.

6. Similarly, any part with which members of the ship's company are likely to come into contact, either by touching it, walking on it or brushing against it, must be decontaminated. Priority should be given to those items directly affecting fighting efficiency, such as handwheels, sights or seats of weapon systems.

7. Persistent CW agents are extremely penetrative liquids and they can, in time, enter even what are regarded normally as impermeable surfaces such as paintwork, rubber or PVC. Prompt removal of the liquids will reduce penetration; this may be achieved in four ways—

- (a) *Pre-wetting*—If the pre-wetting system is operating when the attack occurs, agent deposition will be greatly reduced on surfaces which are being effectively wetted. Every effort should therefore be made to ensure that pre-wetting is running when an attack occurs, so as to avoid a lengthy decontamination task.

- (b) *Intermittent Pre-wetting*—If the ship is in a situation of high but sustained CW threat it may be impracticable to run pre-wetting continuously; a high degree of protection can then be obtained by keeping the weather decks wet by intermittent use of pre-wetting. The film of water will make it easier to wash the agent off when the opportunity to do so eventually occurs.
- (c) *Use of Pre-wetting after an Attack*—Many nerve agents are soluble in water. Only a proportion of insoluble liquid agent will be removed, however, but this proportion is likely to be high if surfaces were wet at the time of attack (*see (b) above*). Pre-wetting should be maintained until decontamination commences.
- (d) *Hosing*—Because of the higher pressure and greater volume of water applied, hosing will remove liquid which pre-wetting will not shift. It is discussed in greater detail in Paragraph 8 below.

8. In addition to pre-wetting, the following decontamination methods can be used—

- (a) *Hosing and Scrubbing*—Fire hoses should be rigged and the structure should be hosed using a jet of salt water. Decontamination parties should stand well clear from the part being hosed and should play the jet on to the surface at an angle of 45 degrees so as to avoid splashing themselves. Surfaces should be hosed down at a rate of approximately 100 square feet/minute. Free CW agents which may have resisted hosing can generally be removed by subsequent scrubbing with detergent solution. Scrubbing of contaminated surfaces should be carried out with a solution of half pint of Teepol (Detergent TS 195B) per bucket of salt water, using long handled scrubbers.

Decontamination should commence with uppermost parts of the ship's structure working down towards the weatherdecks. In the case of vertical surfaces decontamination should commence at the top and work down.

- (b) *Emulsifying Solvent Cleaner*—This can be made up by mixing one part of Teepol with nine parts of kerosene or alternatively one part of Ardrex 607 (Solvent Emulsifier Detergent, Pattern 0474/473006) with 6 to 12 parts of kerosene. It should be used for scrubbing contamination from greasy parts of machinery, it can be washed away with water but it must be remembered that it is a detergent and the surfaces must be regreased after treatment. It also constitutes a fire risk and precautions must be taken accordingly.
- (c) *Bleach*—Bleach unlike the above, will destroy agents with which it can be brought into contact. All objects with which it is likely that the ship's company will have prolonged contact must be treated with bleach paste. This should be made by placing the contents of a seven pound tin of bleach powder in a bucket, adding a quarter cup of Teepol and stirring while slowly filling the bucket to two-thirds full with salt water. It is estimated that this quantity should be sufficient to cover an area of approximately 150 square feet. The bleach not only destroys any free agent but as long as it remains on the surface, acts as a seal to prevent the emission of toxic vapour.

9. The water, detergent and ESC mentioned in Paragraph 8 (a) and (b) above, will remove contamination but not destroy it. Consequently the effluent remains highly toxic and great care must be taken that it is led directly over the side and not allowed to reach places such as bilges, shelters and compartments that are not already contaminated.

10. If time permits, a decontamination process should follow the programme given below. In an emergency, however, priorities will alter and work may have to start on some piece of equipment needed for immediate operational use—

- (a) Rig hoses and hose a clean path to the priority decontamination targets. Decontamination teams must prevent themselves and their equipment as far as possible from becoming contaminated. Hoses and boots cannot be decontaminated once they have absorbed an agent (*see Paragraph 15*).
- (b) Decontaminate the priority targets. It is obvious that the kind of machinery connected with weapons, even on the weather decks, will suffer from decontamination by indiscriminate hosing. Drills for decontaminating these priority targets must, therefore, be worked out on board beforehand, using the methods described in Paragraph 8. Wherever possible covers for weapons, directors or other equipment situated on weather-decks should be used to reduce the amount of contamination.
- (c) Treat all surfaces with which people must have prolonged contact such as seats and handwheels, with bleach paste. The bleach should be left in contact for as long as possible and should not be hosed off, the damage to the surfaces being accepted temporarily until repainting or preservation can be undertaken. This does not, however, apply in the case of bare metal, which liquid agents cannot penetrate. A coat of bleach will suffice, but this will cause severe corrosion many times worse than is caused by salt water, therefore to avoid serious damage, especially to working parts of machinery or weapons, the bleach must be washed off again within 30 minutes and the parts re-greased.
- (d) Hose and scrub with detergent all other parts of the ship's structure with which members of the crew will come into contact, such as decks, bulkheads and ladders. Monitoring is impossible at present and it is extremely unlikely that the agent will be visible. Because of the difficulty in establishing the degree of contamination everything must be assumed to be contaminated.

11. The foregoing procedure should ensure that little or no free liquid contamination remains on exposed surfaces. Since there is no means of confirming this, protective clothing and respirators must continue to be worn, to protect against the possibility of a chance contact with free liquid and against vapour released from paintwork, etc., into which agent has penetrated. In these circumstances there is little likelihood that the protective clothing will become sufficiently contaminated to prevent re-use provided reasonable precautions are taken. Foul-weather type protective clothing should therefore be washed down (with bleach solution and fresh water) and aired outside the citadel after use. Sea boots should be treated in accordance with Paragraph 15.

Subsequent Decontamination

12. *Decks*—The more permeable a material is, the quicker and more complete is its absorption of CW agents; these it releases again in small quantities of vapour over a long period of time. For this reason a painted steel deck is more dangerous if contaminated than a bare one and a wooden or Semtex covered deck is more dangerous than either. Decks should be specially treated by scrubbing with bleach paste when opportunity permits after the initial phase of decontamination (Paragraphs 2 to 11 above) has been completed. After the bleach has been scrubbed well in, using long handled scrubbers, it should be left until it wears off naturally. After weathering for about a week, a bare or painted deck should be safe for any purpose; but a wooden

or other absorbent deck may never be safe and must always be treated as contaminated until proved otherwise by experts. Ultimately, deck coverings may well have to be removed by scraping to bare metal.

13. *Scuppers*—After operational decontamination these should be hosed down, coated with bleach paste and left.

14. *Small Articles*—These can be decontaminated in weatherdeck decontamination tanks (BR 2170, Chapter 27, Paragraph 32) by soaking (and occasionally agitating) for about an hour in warm salt water to which has been added one cup full of bleach powder and $\frac{1}{4}$ -cup of Teepol per gallon. Where laundry facilities are available instructions for decontamination are contained in BR 1277 (Laundry Manual), Chapter XI.

15. *Rubber and Plastic*—Natural rubber, such as is used for sea boots or hoses and PVC, readily absorb CW agents and cannot be decontaminated once absorption has taken place. Neoprene and some plastics are resistant to penetration to a much greater extent than PVC but even these cannot be decontaminated once the agent is absorbed. The protection afforded by sea boots against penetration by CW agents is 18 hours for the uppers and three days for the soles. In order to increase this time indefinitely it is therefore imperative that action should be taken as soon as possible to prevent CW agents from penetrating the surface of these articles. For this purpose trays of bleach should be placed at selected weatherdeck positions to allow frequent coating of sea boots with bleach, to be carried out by all exposed personnel.

16. *Respirators*—The respirator container should be removed and swabbed with a solvent. The facepiece and head harness should be washed in a thin cream of bleach and then thoroughly rinsed with fresh water, mopped dry and the container replaced. Care should be taken to prevent solvent entering the container.

Between Decks Decontamination Methods

17. It must not be forgotten that even in an undamaged ship in Condition ALFA, some compartments *outside* the citadel may become contaminated to some degree; if this is heavy, decontamination may be required.

18. For the decontamination of weatherdecks large quantities of water are used. In most cases, this is impracticable in enclosed compartments, but in other respects the principles remain the same. Detergent scrubbing can be used on non-greasy surfaces and emulsifying solvent cleaner on greasy ones but particular care must be taken that the effluent is not allowed to drain into bilges or escape to other places where it could cause danger. For this reason it is preferable to use bleach wherever possible.

19. It is unlikely that liquid contamination will enter machinery spaces, such as engine and boiler rooms, *via* the ventilation trunking, even though flaps may have been left open. However, a vapour hazard will exist due to liquid agent inside ventilation trunking and it is therefore nonetheless essential to have ventilation flaps closed prior to an attack in accordance with current closing-down procedures.

20. There is no method at present of assessing the effectiveness of decontamination except in places where concentrations of vapour could build up. In these places monitoring with the KVD may give an indication of the presence of Blister and some Nerve agents.

(DTWP 1600/212/76)

RESTRICTED

266—Shore Stations, RAN Air Station—Restrictions on Power, Telephone and Remote Control Cables in the Vicinity of Ground Radio Installations

Attention is drawn to the need for safeguarding the performance of ground radio installations of all types against interference with their operation due to the presence of power, telephone, remote control lines or structures in the vicinity of radio equipment installations or their associated aerial systems in HMA shore establishments, shore stations and the RAN Air Station.

2. An Australian Joint Service publication (Code of Practice for Installation of Power, Telephone and Remote Control Cables near Ground Radio Stations) has now been approved for use in the RAN and the recommendations contained in this Code of Practice are to be observed in the future as appropriate when planning power, telephone and remote control cable installations referred to in Paragraph 1 above. Copies of the abovementioned Code of Practice have been forwarded to FOICEA, NOICNA, HARMAN and ALBATROSS. Requests for additional copies are to be addressed direct to—

The Secretary,
Telecommunications Advisory Committee,
Treasury Building,
Treasury Place,
MELBOURNE, C.1.

3. If it is suspected that the performance of any existing radio installation referred to in Paragraph 1 above is being adversely affected by the presence of any power, telephone, remote control line or structure in the vicinity, or it appears impracticable to apply the recommendations of the Code of Practice to any new installations, the details of the installation concerned are to be forwarded to the Naval Board for consideration and direction.

(DWE 1424/201/17)

Section 2 PERSONNEL

UNCLASSIFIED

267—Marriage/Separation Allowances—Reminder of Notification to be Made by Member Following a Change in Family Circumstances

Some overpayments of Marriage/Separation Allowances have been made because the members concerned did not report changes in their family circumstances. To minimise the risk of this happening because of forgetfulness it is desired to remind members of their obligations in this matter.

2. Accordingly, Captains of ships and establishments are to bring this order to the attention of all members eligible for Marriage/Separation Allowances on 1st February and 1st August each year and to ensure that all fully understand the conditions of Chapter V, Section 1, of NPI governing payment of the allowances (NPI 82/2).

3. In applying for Marriage Allowance each member after detailing his family circumstances, signs a declaration on Form AS 1299Z or Form AS 1299X as follows—

Form AS 1299Z—" I declare that I am voluntarily maintaining my wife at

or

Form AS 1299X—" I declare that—

- (i) I am a widower.
- (ii) I am a divorcee.
- (iii) I am separated from my wife.
- (iv) I am estranged from my wife.
- (v) I have been deserted by my wife.
- (vi) My marriage has been annulled.
- (vii) I am maintaining a home for my children at
- (viii) I am maintaining my children but not in my home.
- (ix) A court order for maintenance at the rate of \$..... per week/fortnight was made on..... in favour of my wife/ex wife and child/children by.....

(Name of Court) "

(Examples of changes affecting entitlements are listed in NPI 82/4.)

4. On reporting a change in family circumstances, a member is to make a further application and declaration for Marriage Allowance if an entitlement exists.

5. This order should be brought also to the notice of all members claiming payment of the allowances on entry, re-entry or on subsequent marriage to ensure that their applications are completed and initial payments are made in accordance with the conditions prescribed in Chapter V, Section 1, of NPI and that they are aware of their subsequent obligation to notify changes.

6. This order will be reprinted for posting on Notice Boards.

(HPB 252/5/3)

UNCLASSIFIED

268—Recreational Films

Ships and establishments requiring films for recreational purposes are to contact the Honorary Cinema Liaison Officer, Lieutenant-Commander H. Stuart-Codde, RANVR (Rtd.), 226 Military Road, Dover Heights, Sydney, NSW (Telephone: 37-9276).

2. **Film Insurance**—Films are a valuable commercial commodity and replacement, especially for colour film, entails large expenditures; ships and establishments are to ensure that they have adequate film insurance coverage. All requests for insurance cover, for all RAN ships and establishments, irrespective of where they are serving or situated, are to be forwarded through the Honorary Cinema Liaison Officer who will complete arrangements with the Central Insurance Company Limited, through the Australian head office of the Film Protection Association.

3. **Notice of Premiums**—To assist ships and establishments take out adequate insurance cover, the Honorary Cinema Liaison Officer will forward, one month ahead of the date on which premiums fall due, a notification setting out all relevant detail for every ship and establishment. To cut down on clerical work, a return slip will be attached; therefore all that has to be done by the Cinema Officer is to attach the ship's fund cheque (in dollars and cents) for the premium shown, drawn in favour of the Central Insurance Company Limited, sign and enclose the return slip and cheque in the addressed envelope which accompanies the notification. This method has been devised to obviate the many cases of long delays, and the follow up notices necessitated by this form of negligence. Immediately the Honorary Cinema Liaison Officer receives the ship's or establishment's official receipt and copy of the interim cover note from Central Insurance Company Limited, they will be mailed.

4. **Film Insurance Protection**—Film insurance does not cover damage to film caused by inefficient projection or negligence. Any damage of this nature will be a charge against the ship concerned. To avoid damage to films careful supervision of the maintenance of projectors is essential and operators should be properly skilled in projection and care of films. No insurance company will cover film for mechanical damage. Film insurance covers loss or damage by fire, theft, burglary, and damage other than mechanical damage caused by careless or inefficient operating. Special care is to be taken that no films are lost. Should this occur, a report detailing all the known circumstances is to be forwarded promptly, in duplicate, to the Honorary Cinema Liaison Officer.

5. **Damage**—Should any damage occur to film programmes, such damage is to be reported in duplicate to the Honorary Cinema Liaison Officer. Under no circumstances should ships or establishments make a direct approach to the Central Insurance Company Limited or to the Secretary of the Film Protection Association. Such action can prejudice claims. The Honorary Cinema Liaison Officer is in a better position than any ship or establishment to establish a claim, and have it met from insurance cover.

6. **Sources of Supply**—Arrangements have been made for the continuance of the supply of 16-mm. recreational films from the undermentioned film renters—

<i>Name and Address</i>	<i>Type of Film</i>
(a) Metro Goldwyn Mayer Pty. Ltd., 20 Chalmers Street, Sydney (Tel.: 211-4888)	All MGM films, of British, USA and European origin.
(b) Sixteen Millimetre Aust. Pty. Ltd., 49 Market Street, Sydney (Tel.: 2-0663)	British Empire Films; Columbia Pictures; Paramount Pictures; Universal Pictures; Walt Disney Productions and certain independent productions.
(c) Twentieth Century Fox Film Corporation (Aust.) Pty. Ltd., 43-51 Brisbane Street, Sydney (Tel.: 211-4955)	Twentieth Century Fox films and selected independent productions—British, USA and European.
(d) Warner Bros. First National Pictures Pty. Ltd., 221 Elizabeth Street, Sydney (Tel.: 26-2936)	Warner Bros. and First National Pictures—British, USA and European

7. **Thirty-five-millimetre Programmes**—Existing arrangements are to be observed for the supply of 35-mm. (standard, cinemascope or wideangle) recreational films to ships and establishments. Supplies for ships will be arranged by the Honorary Cinema

Liaison Officer on application in writing (or by signal to FOICEA), giving seven clear working days notice of the anticipated requirements. Shore establishments will continue booking and selecting programmes direct with film distributing companies. Film hire on the existing scale is to be paid direct to the film distributing company concerned before delivery is taken of the film.

8. **Rental Charges**—These charges vary according to the size of the ship and the ship's company according to the following classification—

Class A	.. .. .	Aircraft Carriers.
Class B	.. .. .	Fast Fleet Transports
Class C	.. .. .	Destroyers and Frigates.
Class D	.. .. .	Submarines.

The weekly rentals set out below are promulgated as a guide only; the final rental in each case is subject to negotiation and agreement between the ship and film distributor concerned.

Programme Type	MGM	16-mm. (Aust.) Pty. Ltd.	20th Century Fox	Warner Bros.
Black and White Single Feature	\$12.00-\$30.00	\$12.00	\$10.00	\$10.00
	Class A	Classes A-B	Classes A-C	Classes A-C
	\$16.00-\$20.00	\$9.00 Class D	\$9.00 Class D	\$9.00 Class D
	Class B			
Coloured Single Feature	\$10.00-\$22.00			
	Class C			
	\$9.00 Class D			
	Class D			
Black and White Cinemascope	\$12.00-\$30.00	Surcharge as	\$10.00	\$10.00
	Class A	agreed	Classes A-C	Classes A-C
	\$16.00-\$20.00	mutually	\$9.00 Class D	\$9.00 Class D
	Class B	Classes A-C		
Coloured Cinc- mascope	\$10.00-\$22.00	\$9.00 Class D		
	Class C			
	\$9.00 Class D			
	Class D			
Black and White Cinemascope	\$12.00-\$30.00	\$9.00 Class C	\$13.00	Warner Bros.
	Class A	\$9.00 Class D	Classes A-C	normally do
	\$16.00-\$20.00		\$9.00 Class D	not release
	Class B			Cinemascope
Coloured Cinc- mascope	\$10.00-\$22.00			versions of
	Class C			16-mm. films
	\$9.00 Class D			
	Class D			

Important Note—The tremendous rise in film hires over those originally arranged by the Honorary Cinema Liaison Officer is an outcome of the preference exercised by ships and establishments of booking their own selection of programmes. Inexperience in negotiating equitable terms has encouraged film distributors to treat ships as normal commercial entities.

9. **Programmes**—Programmes will consist of a main feature, short subject and newsreel and will be supplied in first class condition. It is important to note that portion of a week will be charged as a complete week's hiring charge; it is in the interest of ships to return programmes to renters without delay. This will be the sole responsibility of the ship concerned. In any case of unforeseen delay it becomes the responsibility of the ship concerned to advise the Honorary Cinema Liaison Officer by signal to FOICEA, explaining the circumstances, when action will be taken to safeguard the ship's interests.

10. Many cases have recently been revealed of HMA ships lending recreational films to other ships including visiting ships, and some of these films having been subsequently lost. UNDER NO CIRCUMSTANCES are recreational films hired from Australian sources to be lent to other ships and establishments of the RAN or other forces. The foregoing is a distinct breach of the arrangement existing between the Motion Picture Distributor's Association, and further infringements could prejudice the supply of Recreational Film programmes to the RAN.

11. Commanding Officers are to appoint a Cinema Officer in each ship. The Cinema Officer will be responsible for initial selection of programmes for the ship's company. Since rentals are chargeable on a weekly basis, he should gauge his requirements accurately and make the necessary arrangements for the speedy despatch of film to and from the ship to each renter during the cruise. Films will not be supplied through agents, only from the Sydney head offices listed. At least seven clear working days notice must be given to enable suppliers to render satisfactory service. Except for the undermentioned exceptions, film programmes will only be available from the Sydney head offices of each film distributor by the Honorary Cinema Liaison Officer.

12. **Physical Booking of Films**—ALL BOOKINGS OF RECREATIONAL FILMS are now to be made through the HONORARY CINEMA LIAISON OFFICER. Ship's Cinema Officer's are to forward their film selections by letter or signal to the HCLO who will complete the bookings, making substitutions where necessary, and confirming them by letter or signal. Seven clear working days notice must be given. HMAS ALBATROSS, CERBERUS, DIAMANTINA and NIRIMBA will continue existing arrangements.

13. **Freight Charges**—Charges for freight should be met in the first instance from ship's funds. On production of receipts to the Honorary Cinema Liaison Officer these charges will be refunded as a charge against the RAN Central Canteens Fund. Where use of rail freight will cause undue delay to or from the ship air freight should be used.

14. **Safe Carriage**—All 35-mm. film is to be transported between ships and shore in locked steel trunks. Canvas bags are not to be used. A buoy and buoy rope is to be attached when all films are being transported across water.

15. **Screenings for Service Personnel Only**—All screenings are to be solely and exclusively for RAN personnel and are to be held on board HMA ships or establishments. The number of exhibitions of any programme is limited to three in every ship or establishment.

16. **Films for Small Ships**—The Honorary Cinema Liaison Officer has completed arrangements with the National Film Library, Canberra, and other sources of a similar nature, whereby small ships, with small complements of under 30 officers and sailors, may be supplied with educational film programmes on a no charge basis. Ships requiring this service are to communicate their requirements to the Honorary Cinema Liaison Officer. A small insurance cover is necessary. This will be arranged by the Honorary Cinema Liaison Officer, before such film programmes are forwarded. There is a most interesting range of educational films available that will do much to supply a sorely needed amenity for the crews of small ships.

17. Under circumstances that have developed with contemporary Governmental departments such as CENSORSHIP and CUSTOMS, it has been found that it is more satisfactory to freight films to and from ships through the NAVAL STORES ORGANISATION.

Henceforth Recreational Films will be forwarded and are to be returned through THE NAVAL FILM CENTRE, 74 Dowling Street, Woolloomooloo, and the SNSO, SYDNEY.

Naval Stores Accounting systems are to be used. Issue of Recreational Films will be made on Form AF 134, accompanied by return Voucher AF 331.

Strategic Reserve—Royal Naval Film Corporation

18. Ships proceeding to the Strategic Reserve, for periods sufficiently long to enable personnel to enjoy recreational films released by the RN Film Corporation, are advised to demand on temporary loan from SNSO, Sydney, a copy of BR 2186—Recreational Films—Facilities and Conditions of Supply.

19. This publication, as amended by DCI (RN) 1763 of 1965 and Far East General Orders, Article 142, should be closely read by ship's Cinema Officers for full details of types of membership, scales of charges, monthly film returns and all relevant regulations.

20. Application for membership of the Royal Naval Film Corporation should be made as early as possible prior to joining the Strategic Reserve.

21. Ship's Cinema Officers are to ensure that the rules for membership of the Royal Naval Film Corporation are strictly adhered to.

22. Navy Order 118 of 1966 is hereby cancelled.

(DPS 164/2/79)

(Navy Order 118 of 1966)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

269—Short Courses for RAN and Reserve Officers

Navy Order 654 of 1966 is to be amended as follows—

Course 25550—

Column 2—

Delete "Joint Tactical Course".

Insert "Joint ASW Tactical Period".

Column 6—

Delete existing Column 6.

Insert "Officers of the Seaman Branch of the rank of Captain, Commander or Lieutenant-Commander with recent operational ASW experience".

Column 7—

Delete "A".

Insert "NB".

Column 8—Remarks—

Insert "The aim of this course is to provide the opportunity to review present and future ASW tactics, procedures and strategy".

(DOA 312/203/81)

(Navy Order 654 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

270—Air Stores—Allocation of Reference Numbers to Airborne Instruments Produced to Same General Specification by Different Contractors

The RAF has introduced a system to facilitate the identification of instruments made by two or more manufacturers to the same general specification, and which are functionally and dimensionally interchangeable, but have different internal parts.

2. The RAF system is as follows—

(a) New instruments are allocated a basic reference number, e.g., 6A/6000.

If subsequently, it is necessary to order quantities of such instruments from two or more contractors and they will be made with different internal parts, a numerical suffix is added to the basic reference number for instruments made by the second and subsequent contractors, e.g., 6A/6000/1, 6A/6000/2. This enables identification of the particular make when defects and the need for modification arise.

(b) A suffix, where given, relates to the instrument to which it is given; there is no arbitrary pre-allocation of suffixes to specific contractors.

(c) Where these suffixes are employed they are marked on instruments thereby simplifying physical identification.

3. It has been decided to adopt the above system in the RAN. For accounting purposes the stock number will be the RAF Section and reference number plus the suffix. Stock cards/ledger pages are to be suitably cross referenced.

4. ABR 4 will be amended.

(DSAP 603/56/1272)

UNCLASSIFIED

271—Alteration and Addition Item—HMAS QUEENBOROUGH

The following Alteration and Addition Item is approved to be carried out in HMAS QUEENBOROUGH—

Class List Item No. 596 (Ex TDL "NQBA")

(a) Item: To fit one each Cirscale RPM receiver indicator AP12833 (Port) and AP 12832 (Starboard) on the forward bridge frame and wire from AP12828 transmitters to be fitted in the Gearing Room. Each transmitter is to be belt driven via a suitable pulley wheel directly from the Port and Starboard shaft respectively. Each transmitter is to be fitted with a clutch and base plate AP12829.

The belt drives are to be arranged generally in accordance with GMWD Detail Sheet No. 665—Arrangement of Tacho-Generator Drive in HMAS DUCHESS.

(b) No weight compensation is required.

(CNTS 1211/51/258)

UNCLASSIFIED

272—Alteration and Addition Item—HMAS SYDNEY

The following Alteration and Addition Item is approved to be carried out in HMAS SYDNEY—

Class List Item No. 341 (Ex TDL "AJ").

- (a) *Item:* To fit a "soft" ice cream making machine Model F600, supplied by Dairy Frost Ltd. in 3J2 Ice Cream Bar in accordance with Navy Order 585 of 1966.
- (b) Weight on and off is to be reported.
- (c) *References:* (i) HMAS SYDNEY's Form AS 1182 TDL "AJ" dated 5th December, 1966, forwarded under cover of FOCAF Memorandum dated 30th December, 1966.
(ii) ACNB message DTG 220639Z March, 1967.

(CNTS 1213/53/190)

(Navy Order 585 of 1966)

UNCLASSIFIED

273—Diving—High Pressure Cylinders—Aluminium Alloy Extension of Proof Test and Revised Painting Instructions

(DCI (RN) 1543/1966)

Proof Testing

Experience has proved that the alloys, from which these cylinders are manufactured, are not susceptible to stress corrosion failure, nor are they likely to deteriorate with age due to structural changes occurring, while tests carried out by the manufacturer have shown that they have an adequate fatigue life.

2. It has, therefore, been decided that from the date of this order all high pressure aluminium alloy cylinders used for diving purposes are to be proof tested at intervals of five years. The date for re-proofing is to be calculated from the date of the previous pressure test stamped on each cylinder.

Painting

3. Revised instructions for the painting of cylinders after reconditioning, or for touching-up damaged paintwork on cylinders in service, are as follows—

(a) Protective Painting

Phosphoric Acid Pre-treatment Solution—Spec. RAN 20. The solution is to be applied with a brush or swab, left on the surface for two hours and then thoroughly washed off with hot water.

Two coats Primer Red Oxide/Zinc Chromate—Spec. AS.K108.

One coat French Grey Undercoat—Spec. AS.K127.

One coat Full Gloss Enamel—Spec. AS.K126.

Each coat is to be allowed to dry thoroughly before applying the next.

(b) Contents Identification Painting

Paint marking, black or white—Spec. SAA.Int. 22A.

4. ABR 155 will be amended.

5. MOD (Navy) has advised that BR 3000 will be amended.

6. Navy Order 44 of 1967 is hereby cancelled.

(DTWP 400/1/237)

(Navy Order 44 of 1967)

UNCLASSIFIED

274—Johnson/Evinrude Outboard Motors, Operation, Care and Maintenance

Johnson/Evinrude outboard motors have now been in use by the RAN for over three years and a matter for some concern is the high incidence of engines with relatively short service, being returned to Machinery Spares Depot, Sydney, in extremely poor condition, which often results in them subsequently being found beyond economical repair. The practice of returning engines from which a number of items is missing is also becoming more prevalent. Apart from minor items, these missing items include valuable components such as motor covers, fuel tanks, propellers, steering and throttle handles, etc.

2. Whilst it is realised that the nature of these engines and the conditions of their service often involves their detachment from boats under circumstances which make them highly susceptible to damage, it is nevertheless apparent in many cases that sufficient care is not being taken in their usage, nor is regular and correct maintenance being carried out.

3. An Owners Instruction and Maintenance Manual is issued with each outboard engine and additional manuals, if required, are available for SNSO, Sydney.

4. Attention is directed to ABR 4, Articles 1008 (2) and (3), regarding the return of such items. If Johnson/Evinrude outboard motors are returned to store without important components, a Form AD 3004 is to be raised to account for the missing items.

(DMS 1104/51/831)

UNCLASSIFIED

275—Naval Stores (General)—Allocation of Accounting Classifications and Denominations of Quantity

As a consequence of Navy Order 124 of 1967, which transferred stationery items from ABR 5053, Catalogue of Stationery, Office Devices, etc., to Naval Stores, the subject items have been allotted Accounting Classifications and Denominations of Quantity (D of Q) as follows—

			<i>Class</i>	<i>D of Q</i>
4020-66-012-2323	TWINE, JUTE, FINE, 1-LB. BALL	..	N	No.
4020-66-011-9643	TWINE, JUTE, MEDIUM, 1-LB. BALL	..	N	No.
4020-66-012-1538	TWINE, JUTE, HEAVY, 1-LB. BALL	..	N	No.
6670-66-017-0922	BALANCE, LETTER	..	P	No.
6675-66-017-4929	BRUSH, PEN CLEANING, UNO	..	N	No.
6675-66-016-3325	HOLDER, PEN, UNO	..	C	No.

				Class	D of Q
6675-66-018-9371	PEN LETTERING No. 52	..	..	C	No.
6675-66-018-9372	PEN LETTERING No. 53	..	..	C	No.
6675-66-018-9373	PEN LETTERING No. 54	..	..	C	No.
6675-66-018-9374	PEN LETTERING No. 56	..	..	C	No.
6675-66-018-9375	PEN LETTERING No. 57	..	..	C	No.
6675-66-018-9376	PEN LETTERING No. 58	..	..	C	No.
6675-66-018-9377	PEN LETTERING No. 510	..	..	C	No.
6675-66-018-9378	PEN LETTERING No. 512	..	..	C	No.
6675-66-018-9379	PEN LETTERING No. 516	..	..	C	No.
6675-66-018-9380	PEN LETTERING No. 520	..	..	C	No.
6675-66-015-0222	PEN LETTERING UNO STANDARD No. 1			C	No.
6675-66-015-0223	PEN LETTERING UNO STANDARD No. 2			C	No.
6675-66-015-0224	PEN LETTERING UNO STANDARD No. 4			C	No.
6675-66-015-0225	PEN LETTERING UNO STANDARD No. 5			C	No.
6675-66-015-0226	PEN LETTERING UNO STANDARD No. 7			C	No.
6675-66-015-0227	PEN LETTERING UNO STANDARD No. 9			C	No.
6675-66-018-9381	TEMPLATE, LETTERING No. 203/2 Size $\frac{3}{22}$ "			C	No.
6675-66-018-9382	TEMPLATE, LETTERING No. 203/3 Size $\frac{1}{4}$ "			C	No.
6675-66-018-9383	TEMPLATE, LETTERING No. 203/5 Size $\frac{3}{18}$ "			C	No.
6675-66-018-9384	TEMPLATE, LETTERING No. 203/7 Size $\frac{1}{4}$ "			C	No.
6675-66-018-9385	TEMPLATE, LETTERING No. 203/8 Size $\frac{5}{18}$ "			C	No.
6675-66-018-9386	TEMPLATE, LETTERING No. 203/10 Size $\frac{1}{4}$ "			C	No.
6675-66-018-9387	TEMPLATE, LETTERING No. 203/12 Size $\frac{7}{16}$ "			C	No.
6675-66-018-9388	TEMPLATE, LETTERING No. 203/14 Size $\frac{1}{2}$ "			C	No.
6675-66-018-9389	TEMPLATE, LETTERING No. 203/20 Size $\frac{1}{2}$ "			C	No.
6675-66-018-9390	TEMPLATE, LETTERING No. 203/25 Size 1"			C	No.
6675-66-014-1829	TEMPLATE, LETTERING UNO UC2 $\frac{3}{16}$ " high			C	No.
6675-66-014-1830	TEMPLATE, LETTERING UNO UF2 $\frac{3}{16}$ " high			C	No.
6675-66-014-1831	TEMPLATE, LETTERING UNO UL2 $\frac{3}{16}$ " high			C	No.
6675-66-014-1832	TEMPLATE, LETTERING UNO UC4 $\frac{1}{2}$ " high			C	No.
6675-66-014-1833	TEMPLATE, LETTERING UNO UF4 $\frac{1}{2}$ " high			C	No.
6675-66-014-1834	TEMPLATE, LETTERING UNO UL4 $\frac{1}{2}$ " high			C	No.
6675-66-014-1835	TEMPLATE, LETTERING UNO UC6 $\frac{3}{4}$ " high			C	No.
6675-66-014-1836	TEMPLATE, LETTERING UNO UF6 $\frac{3}{4}$ " high			C	No.
6675-66-014-1837	TEMPLATE, LETTERING UNO UL6 $\frac{3}{4}$ " high			C	No.
6675-66-014-1838	TEMPLATE, LETTERING UNO UC8 $\frac{1}{2}$ " high			C	No.

				Class	D of Q
6675-66-014-1839	TEMPLATE, LETTERING UNO UF8 $\frac{1}{2}$ " high			C	No.
6675-66-014-1840	TEMPLATE, LETTERING UNO UL8 $\frac{1}{2}$ " high			C	No.
6675-66-014-1841	TEMPLATE, LETTERING UNO UC12 $\frac{3}{4}$ " high			C	No.
6675-66-014-1842	TEMPLATE, LETTERING UNO UF12 $\frac{3}{4}$ " high			C	No.
6675-66-014-1843	TEMPLATE, LETTERING UNO UC16 1" high			C	No.
6675-66-014-1844	TEMPLATE, LETTERING UNO UF16 1" high			C	No.
6750-66-010-5912	DEVELOPER, PHOTOGRAPHIC PLASTIC CONTAINERS 20 oz.			C	No.
6750-66-015-4886	DEVELOPER, PHOTOGRAPHIC PLASTIC CONTAINERS 80 oz.			C	No.
6750-66-010-9178	FILM, IMAGE TRANSFER 8 $\frac{1}{4}$ " x 13"	..		C	BX.
6750-66-010-9751	FILM, IMAGE TRANSFER 13" x 16 $\frac{1}{2}$ "	..		C	BX.
6750-66-010-5902	PAPER, IMAGE TRANSFER, POSITIVE SINGLE 8 $\frac{1}{4}$ " x 10 $\frac{1}{2}$ "			C	No.
6750-66-017-7218	PAPER, IMAGE TRANSFER, POSITIVE SINGLE 8 $\frac{1}{4}$ " x 13"			C	No.
6750-66-017-4921	PAPER, IMAGE TRANSFER, POSITIVE SINGLE 11 $\frac{3}{4}$ " x 16 $\frac{1}{2}$ "			C	No.
6750-66-017-7217	PAPER, IMAGE TRANSFER, POSITIVE SINGLE 13" x 16 $\frac{1}{2}$ "			C	No.
6750-66-017-4922	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE 8 $\frac{1}{4}$ " x 10 $\frac{1}{2}$ "			C	No.
6750-66-010-5905	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE 8 $\frac{1}{4}$ " x 13"			C	No.
6750-66-017-4940	PAPER, IMAGE TRANSFER, NEGATIVE STANDARD 8 $\frac{1}{4}$ " x 10 $\frac{1}{2}$ "			C	No.
6750-66-017-7230	PAPER, IMAGE TRANSFER, NEGATIVE STANDARD 8 $\frac{1}{4}$ " x 13"			C	No.
6750-66-017-4942	PAPER, IMAGE TRANSFER, NEGATIVE STANDARD 11 $\frac{3}{4}$ " x 16 $\frac{1}{2}$ "			C	No.
6750-66-017-4943	PAPER, IMAGE TRANSFER, NEGATIVE STANDARD 13" x 16 $\frac{1}{2}$ "			C	No.
6750-66-019-6372	PAPER, IMAGE TRANSFER, POSITIVE MEDIUM 8 $\frac{1}{4}$ " x 10 $\frac{1}{2}$ "			C	No.
6750-66-019-6373	PAPER, IMAGE TRANSFER, POSITIVE MEDIUM 8 $\frac{1}{4}$ " x 13"			C	No.
6750-66-018-5336	PAPER, IMAGE TRANSFER, POSITIVE DOUBLE 13" x 16 $\frac{1}{2}$ "			C	No.
6750-66-019-6374	PAPER, IMAGE TRANSFER, POSITIVE MEDIUM 13" x 16 $\frac{1}{2}$ "			C	No.
6750-66-010-8368	PAPER, IMAGE TRANSFER, NEGATIVE SLOW 8 $\frac{1}{4}$ " x 10 $\frac{1}{2}$ "			C	No.

		Class	D of Q
6750-66-017-7231	PAPER, IMAGE TRANSFER, NEGATIVE SLOW 8½" x 13"	C	No.
6750-66-010-8475	PAPER, IMAGE TRANSFER, NEGATIVE SLOW 13" x 16½"	C	No.
6750-66-016-3188	PAPER, PHOTOGRAPHIC, WHITE 8" x 13"	C	BX.
6750-66-017-4923	PAPER, PHOTOGRAPHIC, WHITE 14" x 18"	C	BX.
7920-66-017-4999	BRUSH, DUSTING, OFFICE MACHINE	N	No.
8040-66-010-3244	ADHESIVE GUMARABIC, LIQUID 5 oz.	N	BO.
8040-66-014-0886	ADHESIVE GUMARABIC, LIQUID 10 oz.	N	BO.
8040-66-017-0920	ADHESIVE GUMARABIC, POWDER FORM	N	LB
8040-66-011-9086	ADHESIVE STARCH, PASTE FORM 10 oz.	N	BQ.
8040-66-012-8909	ADHESIVE STARCH, POWDER FORM..	N	PK
8135-66-014-0869	PAPER, WRAPPING, BROWN 29" x 45" .	N	RM
8135-66-014-0868	PAPER, WRAPPING, BROWN 29" x 45" .	N	RM
8135-66-010-3569	TAPE, TEXTILE, WHITE ½" WIDE 36-YD. HANKS	N	No.

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

3. The relevant publication RAN Supplement to BR 810 Rate Book, will be amended in due course.

(DSAP 465/52/903)

UNCLASSIFIED

276—Victualling Stores—Clothing, Boots, Cooks—Introduction of New Pattern

Boots with low cut grained leather uppers, direct moulded rubber soles and protective toe caps have been introduced for wear by cooks to replace Boots for Cook and Stoker Sailors, Catalogue Nos. 40215/17.

2. The new type boots will be stocked in sizes 5 to 11 and will be identified by the following catalogue nos. and nomenclatures—

Catalogue Nos. 40218/24 Boot, Cook, Non-slip with Protective Toe Cap.

3. Requirements for issues in accordance with Naval Pay Instructions, Article 176/1/1(B) are to be demanded from the Superintending Victualling Store Officer, Royal Edward Victualling Yard, Sydney. The price to be charged for losses is \$6.78 per pair.

4. ABR 93, Part I, Chapter 29, Paragraph 15 and Appendix 35 (14), will be amended.

(D of V 917/65/182)

UNCLASSIFIED

277—WRANS Uniforms—Introduction of New Pattern Uniform Coats and Skirts

The design of the WRANS twill uniform has been modified as follows—

Coat, Woman's, Cloth, Wool, Twill—

- Straightened shoulder line with fitted sleeve.
- Narrowed lapels.
- Waistline shaping repositioned.
- Proportioned coat length with re-alignment of pockets.

Skirt, Woman's, Cloth, Wool, Twill—

Straight lined skirt with 8½-in. box pleat at back.

2. Initially stocks of the new pattern uniform will be reserved for gratuitous issue to new entry Wrens who will receive one new pattern and one old pattern uniform until stocks of the latter are exhausted. The old pattern uniform is to be worn when No. 3 or No. 8 dress is ordered.

3. Stocks of the new pattern garments will be available for repayment issues by 1st August, 1967, and all serving Wrens will be required to provide themselves with a new style uniform within six months of that date provided—

- they will have not less than twelve months to serve from the end of the six months' period, and
- they are not due to serve their final twelve months of service in DNRS Coonawarra.

4. All existing stocks of old pattern coats and skirts held in Clothing Stores other than HMAS CERBERUS are to be returned to Royal Edward Victualling Yard.

5. New style coats and skirts will be identified by the existing catalogue numbers, followed by the suffix one (1), e.g., 61828/1. Demands for requirements are to be placed with the Superintending Victualling Store Officer, Sydney, accordingly.

(D of V 930/51/97)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

278—Mail for HMA Ships

The Postmaster-General's Department has provided a schedule showing the arrival and departure times at Pago Pago, American Samoa, for airmails to and from Australia. This schedule is contained in the appendix to this order.

2. Navy Orders 601 of 1966 and 63, 180 and 240 of 1967 are relevant.

APPENDIX
American Samoa

<i>Local Standard Time</i>		<i>Pago Pago</i>
ARRIVALS	BY AIR AT POST OFFICE	S 6a
		M 3a
		T
		W
		T
		F 5p
		S
READY FOR COLLECTION		Sun. 9a; Mon. 10a; Fri. 9a Sat.
DEPARTURES	BY AIR MAIL CLOSES AT POST OFFICE	S
		M
		T
		W
		T 4p
		F
		S 6p

(AS (NS) 68/201/22)

(Navy Orders 601 of 1966 and 63, 180 and 240 of 1967)

UNCLASSIFIED

279—Stores (General) ABR 5074—RAN Catalogue of Stores

The EDP produced catalogue referred to in Navy Order 497 of 1965, has been allotted book reference number "ABR 5074" and titled "RAN Catalogue of Stores". The publication is in course of production and printing is about to commence. It is anticipated that the first sections of the catalogue will be available for issue within the next few weeks. Further sections will be issued on a progressive basis until completion.

2. When issue of the catalogue is completed the following publications or parts thereof will become obsolete in HMA ships and commissioned establishments and separate instructions will be issued concerning requisite disposal action—

AP (RAN) 108 Air Stores—Local Stock Numbers.

AP 1086—Vocabulary of RAF Equipment.

Australian Joint Services List of Medical Equipment.

BR 1837—Vocabulary of Naval Armament Stores.

BR 2522—Catalogue of Weapon Equipment.

BR 320—Catalogue of Naval Stores.

BR 810—Rate Book of Naval Stores.

RAN Supplement to BR 810.

Vocabulary of Victualling Stores.

3. Each section (i.e., group class) will be a separate entity and will be retained as such, although for convenience more than one section may be enclosed in one cover.

4. The first section of ABR 5074 will comprise a foreword and appendixes setting out stock number formats, management codes, abbreviations, etc., and general instructions as to its purpose and use.

5. On receipt of a section of ABR 5074 HMA ships and commissioned establishments are to compare items on ledger charge with those in the catalogue and adjustments to group class, catalogue number, classification, etc., arranged in the relevant ledgers as necessary the procedure set out in ABR 4, Article 1812, being followed for Naval and Air stores. Any items included in ships ledgers in the group class concerned and which cannot be reconciled with the catalogue are to be reported to Navy Office.

(DSAP 465/52/1292)

(Navy Order 497 of 1965)

RESTRICTED

ANO's 280-292/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
3rd July, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

7637/67

RESTRICTED

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281	Safety Equipment and Survival Practices.
282	Training and Courses in UK—Personal Records and Security Certificate.
SECTION 2—PERSONNEL	
283	Accidents—Operation of Power Worked Machinery.
284	Income Tax Concessions.
285	Withdrawal of Linguist Badge.
SECTION 3—OPERATIONAL AND TRAINING	
286	Gunnery—Ballistics—Revised Instructions for Ballistic Calculations Based on NATO Standard Ballistic Message.
SECTION 4—EQUIPMENT, STORES AND SERVICING	
287	Despatch of Stores to HMA Ships in Japan.
288	Ikara—Instrumentation.
289	Machinery Spares—Stowage and Accounting Arrangements in HMAS PLATYPUS.
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Section 1 ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

280—Drill for Lowering a Seaboat

A serious accident recently occurred in the Royal Navy in which the leg of a member of the crew of a seaboat was shattered when caught in the bight of his lifeline under the thwart.

2. The drill for lowering a seaboat as laid down in BR 67 (1), Chapter 10, has been amended by BR 67 (4)—shortly to be issued—to the effect that the crew having grasped their lifelines, cast the ends outboard.

3. Commanding Officers are to implement this new drill forthwith.

(CONS 465/1/982)

UNCLASSIFIED

281—Safety Equipment and Survival Practices

Aircrew borne for flying duties are to undergo the following drills and instructions—

(a) *Life Saving Waistcoat, Sarbe and Dry Liferaft*—lecture at four-monthly intervals.

(b) *Wet Liferaft Drills*—at four-monthly intervals.

(c) *Wet Winching Drills*—at four-monthly intervals. In addition, members of SAR helicopter crews are to carry out a minimum of four rescue practices a month over the water.

(d) *Parachute Jumping and Dragging Drills*—synthetic drills at six-monthly intervals by aircrew flying in aircraft which normally carry parachutes.

(e) *Wet Parachute Canopy Handling Drills*—at six-monthly intervals by aircrew flying in aircraft which normally carry parachutes.

(f) *Abandon Aircraft Drill*—on conversion to a new type of aircraft and subsequently at three-monthly intervals. This is to include ejection seat drill, if appropriate.

(g) *Survival Swimming*—aircrew are to be qualified in swimming for survival in accordance with the following standard laid down by the Royal Life Saving Association and are to qualify every 3 years—

(i) Answer questions on "Rules of Survival"—Navy Order 89 of 1966.

(ii) Perform a safe jump from suitable take off up to 6-ft. above surface of the water. Clothed in shirt, long trousers and long sleeve pullover.

(iii) Plunge and swim 30-ft. underwater.

(iv) Tread water for two minutes in a horizontal position.

(v) Swim 200 metres—

(A) 50 metres at a steady stroke;

(B) 50 metres breast stroke (slowly);

(C) 50 metres back stroke (arms underwater);

(D) 50 metres side stroke.

- (vi) Undress in water, slowly.
- (vii) Swim further 200 metres (unclothed)—
 - (A) 50 metres breast stroke;
 - (B) 50 metres back stroke (arms underwater);
 - (C) 50 metres side stroke;
 - (D) 50 metres any stroke.

(h) Lectures—on the following subjects annually—

- (i) Geneva Convention and Conduct as a POW.
- (ii) Emergency Signalling.
- (iii) Water Collection, Conservation and Purification.
- (iv) First Aid.
- (v) General Hygiene and Prevention of Disease in Survival.
- (vi) Ground Navigation.
- (vii) Firemaking.
- (viii) Food Procurement in Survival.
- (ix) Evasion and Escape.
- (x) Interrogation Methods.

2. Whenever safety equipment practices are carried out in the sea, a safety boat is to be in attendance.

3. Instruction in safety equipment and survival is to be given under the supervision of the Air Station or ship Safety Equipment and Survival Officer by the following means—

- (a) Initial practices and lectures on joining RANAS Nowra.
- (b) Naval Board posting to RAAF Combat Survival Courses.
- (c) Squadron continuation training.
- (d) Annual field exercises.

4. Each ship or air station is to keep a record of safety equipment and survival practices and lectures, and a bi-annual certificate of practices and lectures completed is to be entered in aircrew flying log books by the station or ship SESO.

5. At Flag Officers' inspections, aircrew are to be prepared for exercises in SE drills and their personal safety equipment is to be inspected.

6. This order supersedes RI 6261 which will be amended in due course.

(DNAP 311/3/76)

(Navy Order 89 of 1966)

UNCLASSIFIED

282—Training and Courses in UK—Personal Records and Security Certificate

Some photographs supplied in accordance with instructions contained in Paragraph 3 of Navy Order 12 of 1967 have been unsuitable and the instructions are amplified as follows—photographs are to be of the passport type measuring 1½-in. square, showing the head and shoulders, and below, a standard name-plate bearing the initials and surname. Personnel are to be photographed in the uniform of their rank, without caps, against a height scale.

2. Instructions contained in Navy Order 500 of 1966 are superseded by Navy Order 12 of 1967.

3. Navy Order 500 of 1966 is hereby cancelled.

(HPB 1617/201/60)

(Navy Orders 500 of 1966 and 12 of 1967)

Section 2 PERSONNEL

UNCLASSIFIED

283—Accidents—Operation of Power Worked Machinery

Navy Order 132 of 1967 is to be amended as follows—

Paragraph 6—

Delete existing Paragraph 6 and insert the following in lieu—

"6. In this context all messages passed over a telephone should be repeated if there is a high background noise at either position or if for any other reason messages could be received corruptly."

(CONS 177/1/83)

(Navy Order 132 of 1967)

UNCLASSIFIED

284—Income Tax Concessions

The following is a list of declared areas in which the taxation concessions under Section 79A of the Income Tax Assessment Act are to be applied from the dates indicated—

(i) Malaysia, Brunei and contiguous waters	..	16th September, 1963
(ii) Singapore	.. .. .	9th August, 1965
(iii) Thailand	.. .. .	31st May, 1962
(iv) Vietnam (Southern Zone)	.. .. .	31st July, 1962

2. This concession allows for a deduction of \$540 plus one half of the sum which a member is entitled to claim as concessional deductions for his dependants from taxable income in addition to normal concessional deductions.

3. The full deduction is allowable only in respect of periods of at least six months in each financial year served in a prescribed area.

4. A pro-rata deduction, however, is allowed in respect of a period served in a prescribed area of less than six months duration in a financial year.

5. This new declaration ensures the continuing application of Section 79A in respect of service in Singapore.

6. This order will be reprinted for posting on notice boards.

7. Navy Order 537 of 1965 is hereby cancelled.

(HPB 271/201/8)

(Navy Order 537 of 1965)

RESTRICTED

285—Withdrawal of Linguist Badge

The Naval Board have decided that the distinctive badge worn by linguists is to be withdrawn for security reasons.

2. The badge is to be replaced by the basic Communication Branch badge as worn by Radio Operators.

3. A gratuitous issue of replacement badges, in accordance with Scale 9, ABR 93, Part II, is to be made to all entitled sailor and Wran linguists.

4. ABR 93, Manual of Victualling, Part I, Appendixes 37 and 38, will be amended.

(DNI 910/252/95)

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

286—Gunnery—Ballistics—Revised Instructions for Ballistic Calculations Based on NATO Standard Ballistic Message

(DCI (RN) 1643/1966)

The procedures in this order enable ships' officers to calculate the change in Ballistic Coefficient for Tenuity and the Ballistic Wind when using the revised Standard Ballistic Message effective from 1st January, 1967. They will be incorporated in the new edition of BR 1898 (10). The change in the new Standard Ballistic Message is that PPP will in future represent the percentage pressure at Meteorological Datum Plane (MDP) level. The height of the MDP is given by hhh in the message—the explanation of Group 4 in Paragraph 3 of this order refers. Details of the new Ballistic Request Message, to replace the BALMET message from 1st January, 1967, are also given in this order.

2. The revised Standard Ballistic Message, which is a NATO agreed standard (STANAG 4061) may be represented symbolically as follows—

META (or S) KQ	XXXXXX	YYG ₀ G ₀ G ₁ G ₁	hhhPPP
	ZZddFF	TTT△△△	
	ZZddFF	TTT△△△	
	etc.	etc.	

3. The first four groups of the message form an introduction and have the following meanings—

Group 1—	MET	is the indicator for a Ballistic Meteorological Message;
	A	indicates that the message refers to anti-aircraft fire;
	or S	indicates that the message refers to surface fire;
	K	also indicates the type of firing—
		K = 2 for anti-aircraft fire;
		K = 3 for surface fire;
	Q	indicates the octant of the globe (see Table 1) to which the following group refers.

Table 1
Octant of the Globe

Q	Meaning
0	North latitude, 0°–90° West
1	North latitude, 90° West–180°
2	North latitude, 180°–90° East
3	North latitude, 90° East–0°
4	Not used
5	South latitude, 0°–90° West
6	South latitude, 90° West–180°
7	South latitude, 180°–90° East
8	South latitude, 90° East–0°
9	Used if the following group of the message does not refer to latitude and longitude

Group 2—XXXXXX This is the centre of the area of applicability expressed in six figures, of which the first three give the latitude in degrees and tens of minutes and the second three give the longitude in degrees and tens of minutes. For longitudes of 100° or greater the "hundred" figure is omitted. Alternatively, six letters or figures may be used to designate the position in plain language or code. In this case Q in Group 1 is given as 9.

Group 3— YY is the date of the month (GMT) of the beginning of the period of validity.

G₀G₀ is the beginning of the period of validity to the nearest hour (GMT).

G₁G₁ is the end of the period of validity to the nearest hour (GMT).

Group 4— hhh is the height of the Meteorological Datum Plane (MDP) above Mean Sea Level (MSL) in units of tens of metres.

PPP is the MDP pressure expressed as a percentage (in units of 0.1%) of the standard pressure of 1,013.25 millibars, omitting the initial 1 if the percentage is 100 or greater.

Note—For Naval purposes the MDP is usually at Mean Sea Level, so hhh is 000 and no adjustment to PPP is necessary in order to obtain % MSL pressure. If the MDP is above Mean Sea Level (i.e., hhh is not zero) then to obtain % MSL pressure the following adjustment should be made—

% MSL pressure (in units of 0.1%) = PPP + (hhh × 1.2).

For example, if Group 4 is 005985, then—

PPP	= 985 (i.e., 98.5%)
hhh × 1.2	= 6 (i.e., 5 × 1.2)

991

Therefore, MSL pressure = 99.1%.

This adjustment is equivalent to one per cent for every 83 metres.

4. The groups which follow the first four are in pairs, each pair of groups constituting a "Line" of the message.

- ZZ** indicates the "Line Number" of the pair of groups, and so defines the target height in anti-aircraft fire, or the vertex height in surface fire to which the ballistic information in the "Line" refers (see Table 2)
- dd** is the direction from which the Ballistic Wind is blowing, in units of hundreds of mils. (6,400 mils. = 360°).
- FF** is the speed of the Ballistic Wind in knots.
- TTT** is the Ballistic Temperature expressed as a percentage (in units of 0.1%) of the Ballistic Temperature of the standard atmosphere, omitting the initial 1 if the percentage is 100 or greater.
- △△△** is the Ballistic Density expressed as a percentage (in units of 0.1%) of standard conditions.

Note—Ballistic Density is not required for use with RN Range Tables and is to be disregarded.

The message may omit the "Lines" which are not applicable to the firing taking place.

Table 2

Line Number (ZZ)	Target or Vertex Height	Approximate Equivalent Time of Flight (Surface Fire Only)
00	0-ft.	5 sec.
01	700-ft.	10 sec.
02	1,600-ft.	20 sec.
03	3,300-ft.	30 sec.
04	4,900-ft.	35 sec.
05	6,600-ft.	40 sec.
06	9,800 ft.	50 sec.
07	13,100-ft.	60 sec.
08	16,400-ft.	65 sec.
09	19,700-ft.	70 sec.
10	26,200-ft.	80 sec.

5. The following specimen message is given as an example—

META21	323465	290206	000031	020811
012///	030912	006///	041114	997///

This means—

- Group 1** Ballistic Meteorological message for Anti-aircraft Fire (in northern hemisphere between 90°W and 180°).
- Group 2** Applicable to 32°30'N 146°50'W.
- Group 3** Valid from 0200Z on 29th until 0600Z.
- Group 4** The MDP is at Mean Sea Level. MDP pressure is 103.1% of standard.

Line 02 Ballistic Wind direction 800 mils.,
(i.e., Target Ballistic Wind speed 11 knots,
height (1,600-ft.) Ballistic Temperature 101.2%
(Ballistic Density not specified)

Line 03 Ballistic Wind direction 900 mils.,
(i.e., Target Ballistic Wind speed 12 knots,
height 3,300-ft.) Ballistic Temperature 100.6%
(Ballistic Density not specified)

Line 04 Ballistic Wind direction 1,100 mils.,
(i.e., Target Ballistic Wind speed 14 knots,
height 4,900-ft.) Ballistic Temperature 99.7%
(Ballistic Density not specified)

Surface Fire

6. Having checked the introductory groups of the message to ensure that it is applicable, the Gunnery Officer must select the appropriate "Line" from the message according to the Time of Flight (see Table 2).

7. **Calculations of Ballistic Wind to Set**—Wind direction in mils. and wind speed in knots are converted to degrees and feet per second, respectively, using the scales on the inside of the cover of the pad of Forms S 1148 (b) (Revised May, 1966). The figures thus obtained should be entered in Section 2 of Form S 1148 (b).

8. **Calculation of Change in BC for Tenuity**—Using the Ballistic Temperature from the appropriate "Line" of the message and the Mean Sea Level Pressure derived from the fourth group of the message (by adjusting PPP if the MDP is not at sea level) enter the new Section B, Part 3, of the Range Table and obtain the "Percentage change in BC for MSL Pressure and Ballistic Temperature". Then, for surface fire only, obtain the "Supplementary Change" from Section B, Part 3A, of the Range Table.

Anti-aircraft Fire

9. Check the introductory groups of the message and select the appropriate "Line" according to Target Height (see Table 2). Convert Ballistic Wind to degrees and feet per second and enter it in Form S 1148 (b) as described in Paragraph 7 above.

10. Calculation of Change in BC for Tenuity—

(a) Using the Ballistic Temperature from the appropriate "Line" of the message and the Mean Sea Level Pressure derived from the fourth group of the message, enter Section B, Part 3, of the Range Tables and obtain the "Percentage Change in BC for MSL Pressure and Ballistic Temperature".

(b) There is no supplementary table for use in AA fire.

General

11. The following information is superseded when following this order—

(a) BR 1898 (10) (1959 Edition)—

Chapter 4—The whole of Paragraph 3 (entitled "Tenuity Corrections").

The following parts of Paragraph 4 (entitled "Calculating the percentage change in BC"): The whole of the second sub-paragraph (starting "Section 2 of the form").

The Table number 4.4 (A)—The whole of the Sub-sub-paragraph numbered (3) and entitled "Tenuity".

Chapter 8—The whole of Paragraph 3 (entitled "obtaining ECW and Ballistic Temperature"). The whole of Paragraph 5 (entitled "Meteor Code").

Chapter 10—Section 3B—Sub-paragraph 2 (starting "Note the expected range . . .").

Appendix 4—The whole.

(b) DCI (RN) 457/1966, Paragraph 12.

12. If a Standard Ballistic Message is not available, Ballistic Temperatures and Ballistic Winds may be estimated using the methods given in BR 1898 (10) (Chapter 4, Paragraph 3, and Appendix II, Paragraph 6C, of the 1959 Edition).

Requests for a Standard Ballistic Message

13. Ballistic Messages may be requested from any nearby ship with a qualified Meteorological Officer, namely aircraft carriers, commando ships, cruisers, LPDs and DLGs. Alternatively, requests may be made to shore authorities in accordance with local or operational orders. The message is requested by means of a standard Ballistic Request Message.

14. The form of the standard Ballistic Request Message may be represented symbolically as follows—

METR KQ XXXXXX $Y_0 Y_0 G_0 G_0 G_1 G_1$ $Z_0 Z_0 Z_1 Z_1 J_0 J_1$

This message form replaces the old BALMET request message from 1st January, 1967. In due course it will be adopted NATO-wide, but until then its use may not be understood except by RN Authorities. Its particular advantage is that it can be used to request either a single Standard Ballistic Message, as might be required for a practice firing, or a sequence of Standard Ballistic Messages at regular intervals of time, as might be required in operational conditions.

15. The meaning of the groups is as follows—

Group 1— METR indicates a request for Standard Ballistic Messages.

K indicates the type of firing—

K = 2 for AA fire;

K = 3 for Surface fire;

Q indicates the octant of the globe (see Table 1).

Group 2— XXXXXX this is the centre of the area of applicability expressed in six figures, of which the first three figures give latitude in degrees and tenths of a degree and the second three figures give longitude in degrees and tenths of a degree. For longitudes of 100° or greater the "hundred" figure is omitted. Alternatively, letters or figures may be used to designate the position in plain language or code. In this case Q in Group 1 is given as 9.

Note—This definition differs slightly from that for the corresponding group of the Standard Ballistic Message. The Standard Ballistic Message will be changed to conform when international agreement is reached.

Group 3— $Y_0 Y_0$ indicates the day of the month (GMT) to which $G_0 G_0$ refers.

$G_0 G_0$ indicates the beginning of the period of validity of the first message to the nearest hour (GMT).

$G_1 G_1$ indicates the beginning of the period of validity of the last message to the nearest hour (GMT); the day of the last message is indicated by J_0 in Group 4.

Group 4— $Z_0 Z_0$ indicates the lowest "Line" required.

$Z_1 Z_1$ indicates the highest "Line" required.

J_0 indicates the number of days, from 0 to 9, to be added to $Y_0 Y_0$ to give the day of the month (GMT) to which $G_1 G_1$ refers.

J_1 is a number from 1 to 8 to indicate the time interval in hours at which successive messages are required. Alternatively, the number 9 indicates an interval of 12 hours.

Example

A ship requires Standard Ballistic Messages every six hours from 2100Z on 12th May until a last message at 0900Z on 14th May for an area centred on 32°30'N, 146°50'W. Surface fire, Lines 03, 04, 05 and 06.

The Ballistic Request Message would be—

METR31 325468 122109 030626

16. If only a single Standard Ballistic Message is required, then $G_1 G_1 = G_0 G_0$, J_0 is 0, and J_1 indicates the period of validity of the single message requested (9 indicates 12 hours as before). This is equivalent to making the time of the "first" message and the time of "last" message the same.

Example

A ship requires a single Standard Ballistic Message valid for three hours from 2100Z on 12th May for an area centred on 32°30'N, 146°50'W, for Surface fire, Lines 03, 04, 05 and 06.

The Ballistic Request Message would be—

METR31 325468 122121 030603.

(DWE 400/201/58)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

287—Despatch of Stores to HMA Ships in Japan

Any stores being despatched for HMA ships whilst in Japan are to be packed with double wrapping and the outer cover addressed to Australian Embassy, Tokyo, only.

2. No reference is to be made to the ships' names on the outer cover or on consignment documents.

(DSAP 400/251/96)

RESTRICTED

288—Ikara—Instrumentation

In order to provide for the functions of setting to work and acceptance of an Ikara Weapon System certain specialised equipments have been provisioned. Whilst delivery of certain equipments has not yet been effected this order promulgates general details of these equipments to assist forward planning.

Cabinet D6

2. A cabinet complete with Visicorder will be provided to each dockyard for the purposes of setting to work equipment located in the Test Room and for monitoring of certain parameters during firings (if required). Dockyards shall be responsible for the custody, maintenance and the placing of the cabinet onboard ships as required. Handbooks on the operation and maintenance of this cabinet will be supplied.

Outfit D3

3. An alignment aerial, known as OUTFIT D3 will be provided to each dockyard which shall be responsible for the custody and maintenance of the outfit. Details of this outfit will be included in the Ikara Handbook dealing with the Tracking Test Signal Source and Aerial.

4. Ship requirements for Cabinet D6 and Outfit D3 will be included in Planned Maintenance documentation, however, outside the period of a main refit ships are to inform dockyard of their requirements for these equipments by INDEF action.

Equipment Monitoring Guidance Performance (Airborne)

5. This equipment consists of Missile fins and Instrumentation Racks that are fitted to various types of aircraft for the conduct of certain Sea Acceptance Trials. A ground support installation is also provided for maintenance and pre-sortie check out. The Commanding Officer, HMAS ALBATROSS, shall be responsible for the custody and maintenance of this equipment. Special handbooks covering maintenance and operation will be provided.

SVU Monitoring (Portable)

6. Each Dockyard will be supplied with one of these units and will be responsible for its custody and maintenance. The main function of this unit is to provide a simulated missile response for Harbour Acceptance Trials. Special handbooks will be supplied as for the EMGP (Airborne).

Telemetry

7. Two sets of telemetry receivers and aerials will be provided. Ships will be fitted with permanent cable runs from the site of the receiver to the aerial but it will be necessary to ship both receiver and aerial on each occasion telemetry is required. The Inspector of Naval Ordnance (Sydney) shall be responsible for the custody, maintenance and operation of this equipment. Special handbooks will be supplied. Ikara Practice Firing Orders provides further details. On supply of these telemetry equipments the Mark I version at present in use will revert to a standby role.

Portable Test Equipment

8. A scale of portable test equipment supplied for setting to work, acceptance or maintenance will be listed in DWB 1105.

Maintenance

9. (a) All equipments listed in the previous paragraphs are subject to Navy Order 227 of 1967 Defect Reporting, Investigation and Repair and Navy Order 254 of 1967 Post Design Services.

(b) The provisioned spares listings will be contained in DWB 1105.

(DWE 740/252/698)

(Navy Orders 227 and 254 of 1967)

UNCLASSIFIED

289—Machinery Spares—Stowage and Accounting Arrangements in HMAS PLATYPUS

In HMAS PLATYPUS accounting and custody of spare gear will be the responsibility of the Supply Officer. The instructions in ABR 4 will apply to these stores except as varied in the following paragraphs.

Stowage Arrangements

2. Machinery spares, whether carried for repairs and maintenance to equipment fitted in HMAS PLATYPUS or for the maintenance of submarines, are to be the responsibility of the Supply Officer. The items are to be stowed in storerooms under the control of the Supply Officer. As far as practicable, the items are to be stowed in left justified sequence of ADREF, part or drawing numbers within each respective MOD (Navy) group class. It is imperative that this MOD (Navy) identification be preserved to ensure correct replenishment is effective.

Allowances

3. (a) The authorised establishment of both permanent and consumable items of spare gear for equipment fitted in HMAS PLATYPUS will be published in Lists of Equipment, etc. Particulars of the spare gear provided as support for submarines based on HMAS PLATYPUS will be shown in an Appendix to the List of Equipment, etc. Copies of Lists of Equipment, etc., will be made available to the Supply Officer.
- (b) No increase in stockholdings of spare gear for either purpose is permitted without AS 130 action in accordance with ABR 4, Chapter 3.
- (c) Items required for specific purposes and which are not available from HMAS PLATYPUS stock may be demanded from the Superintending Machinery and Spares Officer, Sydney, as necessary. In such cases, a certificate in accordance with ABR 4, Article 0608, is to accompany the demands.

Issues

4. Replenishment of "on board" spares by submarines will normally be made direct from the Machinery and Spares Depot, Sydney. However, in exceptional circumstances it may be necessary for submarines to obtain "on board" spares from HMAS PLATYPUS in which event the following procedure will apply—

- (a) Permanent spares issued to submarines are to be dealt with as exchange transactions, on a one for one basis, whenever possible. Forms SX 100 are to be raised in triplicate by the Returning Officer and dealt with as follows—
 - (i) Copies Nos. 1 and 2 accompanied by the defective item, are to be forwarded to the appropriate store room in HMAS PLATYPUS and Copy No. 3 retained by the Returning Officer for record purposes.
 - (ii) Copies Nos. 1 and 2 are to be stamped for exchange as shown in ABR 4, Article 0904, and used both as a return and issue voucher.
 - (iii) After signature by the person receiving the stores, Copy No. 1 is to be used to credit the serviceable and debit the unserviceable columns of HMAS PLATYPUS ledgers and in the case of articles bearing registered numbers to amend Forms AS 155Z. Copy No. 2 is to be forwarded to the Returning Officer for retention.
- (b) Issues of permanent spares when immediate exchange is not possible and all issues of consumable spares to submarines are to be dealt with as transfers using Forms AS 549 as laid down in ABR 4, Chapter 13.

5. Issues of spare gear to departments of HMAS PLATYPUS are to be made in the manner laid down for Naval Stores in ABR 4, Chapter 8, using Forms SX 100 for permanent items and Forms AS 149 for all consumable issues, except that all issues of permanent items are to be regarded as outright issues and not recorded on Permanent Loan.

6. Normally, permanent stores will be required as replacements for defective, etc. items already fitted and in such cases, whenever possible, the transactions are to be dealt with as exchange transactions in accordance with ABR 4, Article 0904.

7. If immediate exchange is not possible the accounting copy of the Issue Voucher, Form SX 100, is not to be filed after posting to the ledgers in accordance with ABR 4, Article 1814. Pending return of the unserviceable items concerned the vouchers are to be kept in a special file and follow up action taken as necessary for the items' return. After the Return Voucher has been posted to the ledgers a suitable cross reference is to be endorsed on the Issue Voucher and both vouchers filed in Binders in accordance with ABR 4, Article 1814.

8. In certain circumstances, items additional to those already fitted will be required for purposes of modification, etc. In these cases, the Demanding Officer is to endorse the demand Form SX 100, accordingly and where possible include a reference to the work authorisation. Should the modification, etc., necessitate an amendment to a List of Equipment, etc., the Demanding Officer is also to endorse details of the relevant Form AS 197 on the departmental copy of the demand.

Accounting Arrangements

9. The following accounting arrangements will apply—

- (a) Machinery Spares are to be dealt with in the Naval Store Account on Forms AS 151 (revised 1967) and SA 103 as appropriate.
- (b) The pages for the items are to be arranged in left justified sequence of the reference, part or drawing numbers within the various group classes.
- (c) Pages are to be stamped "Machinery Spares" and endorsed with details of the parent equipment and/or assembly as shown on the Form AS 134P on which supply was made.

Lists of Equipment, etc.

10. Fitted equipment, portable fittings, etc., normally accounted for in Lists of Equipment, etc., in accordance with ABR 4, will continue to be accounted for on Forms AD 787H/AS 473H and be the responsibility of the appropriate technical officers. Whilst not the responsibility of technical officers for accounting purposes spares will be shown on Forms AD 787J/AS 473J and Flyleaves for guidance purposes.

(DSAP 1100/51/28)

UNCLASSIFIED

290—Paint Specifications and Colour Schemes—Painting of Compartments Containing Explosives and Weapons General

The table at the appendix of this order provides a comprehensive reference for the colour schemes and paint specifications to be used in all weapons compartments. This table combines existing instructions in BR 862, BR 292, ABR 19 and previous navy orders. ABR 19 will be amended in due course.

2. In order to reduce the hazard of Electrically Initiated Explosives (EIE) being fired by a static electricity charge on the human body, the decks in compartments where weapons containing EIE; devices are stowed, handled, assembled and/or tested must be of a conducting material.

The compartments concerned are—

- (a) 4.5-in. magazines and gunbays.
- (b) Air weapons assembly rooms in aircraft carriers.
- (c) Rocket preparing rooms in aircraft carriers.
- (d) Torpedo pistol rooms.
- (e) Torpedo preparation spaces.
- (f) Guided weapons check rooms.

3. In the interests of hull preservation, areas of steel deck in the above compartments are to be painted as follows—

Non-walked on Areas—normal deck preservative paint.

Walkways—2 coats of zinc rich conducting paint to DEF Specification 1217 which is made from—

Pattern 0442/943-4720, Paste Priming Zinc Dust—2 parts by volume, and;
Pattern 0442/943-8265, Thinners—1 part by volume.

The paint should be made up just before application. The paste should be thinned to a brushable consistency by gradually adding the correct proportion of thinners as specified. The paint when mixed should be without sediment or lumps.

4. Careful attention should be given to the work when carrying out any necessary maintenance of the coatings. The paint used for touching up should be made to the correct proportions and thoroughly mixed to a homogenous consistency. To ensure maximum conductivity, the deck surface of walkways should not at any time carry more than 2 coats of the paint.

5. In some instances the compartments listed in Paragraph 2 above may have aluminium decks or raised aluminium walkways—such as in some 4.5 turret gunbays. In these cases the aluminium is to remain unpainted and the deck below raised aluminium walkways may be painted with normal deck preservative.

6. Aluminium paint such as silverene is not to be used in compartments containing explosives, since this type of paint, in contact with rust, can be the cause of sparking on impact with a hard object.

PAINT SCHEMES for WEAPONS and COMPARTMENTS CONTAINING EXPLOSIVES

Compartment	Surface	Material	Primer	Undercoat	Finish	Colour	
Magazines and Missile Assembly/Test Rooms	Bulkheads and Deckhead ..	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss	
	Bulkheads and Deckhead ..	Insulation	1-PP 160	—	1-FR 60/ 1-FR 61 (50/50)	White Gloss White Semi-gloss	
	DECKS: 4, 5 Mags.—						
	Walkways ..	Steel	2-PR 6	—	—	Grey	
	Non-walked on Areas ..	Steel	2-PR 5	—	1-DK 78	Green	
	DECKS: 40/60, 4-in., 5-in., Small Arms, Seacat, Ikara, A/S Mortar	Steel	2-PR 5	—	1-DK 78	Green	
	HOISTS: Unpainted except—						
	Unparkerised Fixed Sections	Steel	2-PR 5	—	1-EN 31	Black	
	Unparkerised Moving Sections	Steel	2-PR 5	—	1-EN 12	Red	
	INSULATION	—	1-PP 160	—	1-FR 60/61	White Semi-gloss	
	SWITCHES—						
	Emergency	Non-ferrous	—	—	1-EN 12	Red	
	Lighting, Isolation, etc. ..	Non-ferrous	—	—	1-EN 34	Yellow	
	BATTENS	Alloy and Wood	—	—	UNPAINTED	—	
	FLOOD AND SPRAY PIPES	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss	
BILGES	Alloy	2-PR 5	—	1-EN 12	Red		
Raised Walkway	Aluminium	3-TE 111	—	—	Black		
				UNPAINTED	—		

IKARA MAGAZINE AND ASSEMBLY ROOM (DDG only)—						
SHELL ROOMS	Bulkheads	Aluminium	1-PR 3	1-UC 70	1-FR 60/61 (50/50)	White Semi-gloss
	Bulkheads under Insulation	Aluminium	1-PR 3	—	—	—
	Bulkheads and deckheads	Insulation	1-PP 160	—	1-FR 60/61 (50/50)	White Semi-gloss
	DECKS	Aluminium	—	UNPAINTED	—	—
	Handling Equipment ..	Steel Alloy	N/K	N/K	EN 36	Light Grey
	Bulkheads and Deckhead ..	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss
	Decks	Steel	2-PR 5	—	1-DK 78	Green
	Hoists	}	AS FOR MAGAZINES			
	Switches					
	Battens					
Flood and Spray Pipes						
Bilges						
GUNBAYS (4.5-in.), CARRIER ROOMS (5-in.), A/S MORTAR MARK 10 HANDING ROOM						
SHELL ROOMS	Bulkheads and Deckheads ..	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss
	Decks—4.5-in.	Steel	2-PR 6	—	—	Grey
	Gunbays and A/S Mortar	}	AS FOR MAGAZINES			
	Handing Room—					
	Raised Walkway ..					
	Beneath Raised Walkway					
	Decks—5-in. Carrier Room	Steel	2-PR 5	—	1-DK 78	Green
	Hoists	Steel	2-PR 5	—	1-DK 78	Green
	Switches	}	AS FOR MAGAZINES			
	Spray Pipes					

Compartment	Surface	Material	Primer	Undercoat	Finish	Colour	
GUNHOUSES	Bulkheads and Deckhead	Steel	1-PR 5	—	1-HR 47	Aluminium	
	Decks: Walkways	Steel	UNPAINTED			—	—
	Non-walked on Areas	Steel	2-PR 5	—	1-DK 78	Green	
	Hoists	Steel	AS FOR MAGAZINES			—	—
	Switches		2-PR 5	—	1-EN 12	Red	
	Rammer Head and Side of Elevating Structure	Steel	2-PR 5	—	1-EN 12	Red	
	Cartridge RU Lockers	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss Inside and Outside	
	Empty Cylinder Compartment—						
	Interior	Steel	2-PR 5	—	1-FR 62	Flat Black	
	Exterior	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss	
Shell and Cordite Rings Track Guide Rails	Steel	Steel	UNPAINTED			—	
		Steel	2-PR 5	—	1-EN 12	Red	
GUN TURRETS AND GUN MOUNTINGS	Exterior	Steel	2-PR 5	1-UC 71	1-EN 36	Grey	
	Barrels	Steel	2-PR 5	1-UC 71	1-EN 31	Black	
	Decks Inside 40/60 Mountings	Steel	2-PR 5	—	1-DK 78	Green	
DIRECTORS	Exterior	Alloy Fibreglass	2-PR 5	1-UC 71	1-EN 36	Light Grey	
	Interior		—	1-UC 71	1-EN 36	Light Grey	
		Alloy	2-PR 5	1-FR 61	1-FR 60	White Gloss	

Upper Deck RU Lockers and Tanks	Exterior	Steel	2-PR 5	1-UC 71	1-EN 36	Grey
	Interior	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss
DEMOLITION LOCKERS, DETONATOR LOCKERS	Lids of Pyrotechnic Tank, Detonator and Grenade Lockers	Steel	2-PR 5	—	1-EN 12	Red
TORPEDO WARHEAD ROOM	Bulkheads and Deckheads	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss
	Deck	Steel	2-PR 6	—	—	Grey
	Pistol (Assembled), Locker (Special to Type)	Steel	2-PR 5	1-FR 61	1-FR 60	White Gloss Inside and Outside

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY
UNCLASSIFIED

291—ABR 155—RAN Diving Manual—Amendment

ABR 155—RAN Diving Manual—the following notation is to be inserted, in ink, at the end of Article 0304 (1) (f)—

“(Note: The definitions of diving “regularly” and at “frequent intervals” are—

- (a) Diving Regularly—Minimum monthly diving practice times being attained; less than minimum for one month to be balanced by the end of the next month.
- (b) Diving at Infrequent Intervals—Minimum monthly diving practice times not being attained two months in succession.”

(DTWP 327/54/90)

UNCLASSIFIED

292—Forms SA 103—Naval Stores Account Permanent Ledger
Pages—Introduction

In clarification of Navy Order 217 of 1967, it is to be noted that ledger pages, Forms SA 103, are intended for use for permanent Naval Stores, Air Stores and Spare Gear which are carried in stock by the Supply Officer for outright issue in replacement of defective items and for which there are normally no permanent loan transactions.

(DSAP 464/54/677)

(Navy Order 217 of 1967)

ANO 293/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
5th July, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

M. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

293—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During March, 1967

The magazines, pamphlets and amendments to publications, etc., and SC Series contained in the appendix to this order have been distributed to ships and services during March, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of "P" Series Amendments referred to in the appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 31	Change 19 dated 1.11.1966
BR 70	Cumulative Suppt. 1966 Edition corrected to 31.10.1966
BR 125	Suppt. No. 5 January, 1967 New Entries No. 6 January, 1967
BR 1040	Change 4
BR 1257	Change 1 Change 2
BR 1618	Change 4
BR 1754 (1956)	Change 5 Change 6
BR 1771 (33)	Change 1 Change 2
BR 1771 (38)	Change 2
BR 1771 (43)	Change 1
BR 1917 (1) (A)	Change 30 Change 32 Change 34
BR 1917 (1)	Change 27 Change 28 Change 29
BR 1917 (2)	Change 21 Change 22 Change 23
BR 1917 (2) (A)	Change 29 Change 31 Change 32 Change 33
BR 2014 (B)	Amendment 8
BR 2110 (2)	Change 3
BR 2111	Change 2

BR AMENDMENTS—continued

BR No.	Amendment No.
.. .. .	1965 Aust. Change No. 1
.. .. .	Change 6
.. .. .	Change 3
.. .. .	Change 4
.. .. .	Change 6
.. .. .	Change 1
.. .. .	Change 2
.. .. .	Aust. Addendum Change 1
.. .. .	Aust. Addendum Change 1
3)	Change 2
.. .. .	Change 3
.. .. .	Change 2
.. .. .	Change 1
.. .. .	Issue 9 dated 12.1.1967
.. .. .	Issue 14 dated 25.1.1967
.. .. .	Amendment 1 dated 1.2.1967

Navy Orders 252/67 and 253/67 will be issued later.

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
CXI No. 4	December, 1966
ss Management Vol. 13 No. 3	December, 1966
ss Management Vol. 13 No. 4	January, 1967
nicator Vol. 18 No. 3	Xmas, 1966
.. .. .	24.11.1966
.. .. .	1.12.1966
.. .. .	8.12.1966
.. .. .	22.12.1966
.. .. .	29.12.1966
.. .. .	5.1.1967
.. .. .	12.1.1967
Recognition Journal Vol. 21	September, 1966
Recognition Journal Vol. 21	October, 1966
.. .. .	24.11.1966
.. .. .	8.12.1966
.. .. .	22.12.1966
.. .. .	29.12.1966
.. .. .	5.1.1967
.. .. .	12.1.1967

SC SERIES

ACP No.	SC No.
1)	SC 12/66 Correction 10/1
2)	Change 2

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

293—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During March, 1967

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BR 125	Suppt. No. 5 January, 1967 New Entries No. 6 January, 1967
BR 1040	Change 4
BR 1257	Change 1 Change 2
BR 1618	Change 4
BR 1754 (1956)	Change 5 Change 6
BR 1771 (33)	Change 1 Change 2
BR 1771 (38)	Change 2
BR 1771 (43)	Change 1
BR 1917 (1) (A)	Change 30 Change 32 Change 34
BR 1917 (1)	Change 27 Change 28 Change 29
BR 1917 (2)	Change 21 Change 22 Change 23
BR 1917 (2) (A)	Change 29 Change 31 Change 32 Change 33
BR 2014 (B)	Amendment 8
BR 2110 (2)	Change 3
BR 2111	Change 2

BR AMENDMENTS—continued

BR No.	Amendment No.
BR 2111 (4)	1965 Aust. Change No. 1
BR 2112 (2)	Change 6
BR 2112 (7)	Change 3 Change 4 Change 6
BR 2245	Change 1
BR 2247 (1)	Change 2
BR 3001	Aust. Addendum Change 1
BR 3013	Aust. Addendum Change 1
BR 3209 (1963)	Change 2 Change 3
ABR 5060	Change 2
ABR 5070	Change 1
MBR 8001	Issue 9 dated 12.1.1967 Issue 14 dated 25.1.1967
MBR 8171	Amendment 1 dated 1.2.1967

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Signal Vol. XXI No. 4	December, 1966
Armed Forces Management Vol. 13 No. 3	December, 1966
Armed Forces Management Vol. 13 No. 4	January, 1967
The Communicator Vol. 18 No. 3	Xmas, 1966
Flight	24.11.1966
Flight	1.12.1966
Flight	8.12.1966
Flight	22.12.1966
Flight	29.12.1966
Flight	5.1.1967
Flight	12.1.1967
Joint Services Recognition Journal Vol. 21 No. 9	September, 1966
Joint Services Recognition Journal Vol. 21 No. 10	October, 1966
Aeroplane	24.11.1966
Aeroplane	8.12.1966
Aeroplane	22.12.1966
Aeroplane	29.12.1966
Aeroplane	5.1.1967
Aeroplane	12.1.1967

SC SERIES

ACP No.	SC No.
ACP 117 (B)	SC 12/66 Correction 10/1
ACP 127 (C)	Change 2

USA NAVWEP PUBLICATIONS

Publication	Date
ORDALT 00 Vol. 1	Change 1 1.9.1966 Change 2 1.11.1966 Change 3 1.2.1967
OP 1184	Change 3 1.1.1967
OP 2213	Change 1 1.4.1966 Change 25 15.6.1966 Change 6 1.12.1966
OP 2531	Change 1 15.9.1966
OP 3010 IMP Vol. 5 Part 2	Advance Change Notice 16-1 15.9.1966
OP 3347	Change 1 1.10.1966

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
109A-0001 } 2	(AL 1064)-B 668 (Alt. 1 incp.)
109A-0002 }	(AL 1060)-B 704 (AL 1065)-B 707 (AL 1055)-N 2
116D-0102-1A	AL 14, 16 and 17
116D-0102-6A	AL 18, 19, 20, 21 and 22
116D-0106-3A (N)	AL 5 and 6
119A-0600-1	AL 75
957C Vol. 4 Part 6 (1st Edition)	AL 20
1086 Book 3 Part 1	AL 113
1086 Book 4 Part 4 (2nd Edition)	AL 95 and 103
1086 Book 5 (2nd Edition)	AL 128
1086 Book 7 (2nd Edition)	AL 178, 179 and 180
1086 Book 13 (2nd Edition)	AL 234, 235 and 236
1181 Vol. 2	(AL 213)-I 3
1182 (N) Vol. 4 Parts 2 and 6	AL 25
1182C Vol. 4 Part 6	AL 65
1275A Vol. 1 Section 18	AL 116 and 117
1275A Vol. 3 Part 1 (N) Book 1-(FSN 112G 0303 3A (N))	AL 17 and 18
1275A Vol. 3 Part 1 (N) Book 2	AL 17
1275B Vol. 3 Part 1 (N)	AL 8
1275Q Vol. 1	AL 25
1355C Vol. 4 Part 6 (2nd Edition)	AL 3
1469Q Vol. 5 Part 6 (N) Issue 1	AIL 1/66 AL 21
1641H Vol. 2 Part 1	AL 2 (List of sections) AO Leaflet G1
1641P Vol. 1 (2nd Edition) Parts 1 and 3	AL 27
1664A (2nd Edition) Vol. 1 Book 1	AL 69
1664E Vols. 1 and 5	AL 41
1803D Vol. 1 Book 2	AL 69
2276F Vol. 1 (2nd Edition)	AL 6
2337 Vol. 2	(AL 249)-C 69 (Alt. 1 incp.) (AL 250)-C 107
2438G Vols. 1 and 6	AL 34
2487A and B Vol. 2	(AL 27)-B 23

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
2531S Vol. 2	(AL 33)-B 19 (AL 34)-B 20
2531S Vol. 5 Part 6 (N) Issue 1	AL 7
2876 Vol. 1 Part 2	AL 5
3278 Book 2	AL 4
3358	AL 23
3364 Vol. 2	AL 4
4222A and B	AL 4
4340 Vol. 2	(AL 76)-I 4
4343A Vol. 2	(AL 194)-C 51
4343C Vol. 1 Book 2	AL 180
4343C Vol. 3 Part 1 (N)	AL 13
4343C Vol. 6	AL 29
4343D Vol. 1 Book 3	AL 122
4343D Vol. 1 Book 4	AIL 1/66
4343D Vol. 2	(AL 144)-Z 19
4343D Vol. 3 Part 1 (N)	AL 19
4343E Vol. 1 Book 1	AL 226
4343E Vol. 1 Book 3	AL 216
4389ML	AL 13 and 14
4411A Vol. 2	(AL 34)-B 28
4723A Vol. 1 Book 2	AL 89
4837B Vol. 1	AL 6
(N) 1 Part 2	AL 48
(N) 140	AL 31 and Errata
(N) 1024 Vol. 1	AL 42
(RAN) 8 Pilots Notes	AL 12
(RAN) 8 Vol. 1 Book 2	AL 21
(RAN) 8 Vol. 1 Book 5	AL 18
(RAN) 8 Vol. 1 Book 8	AIL (RAN) 3, 4, 5, 6 and 7
(RAN) 8 Vol. 3 Book 2	AL 61
(RAN) 8 Vol. 5 F/S Book 2	AL 57
(RAN) 10 Vol. 1 Book 4	AL 27 and 28 (Combined) AL 36
(RAN) 10 Vol. 5 F/S Book 2	AL 6, 7 and 8
(RAN) 26 Vol. 5 F/S Book 2	AL 25
(RAN) 101	AL 119, 120, 121, 122, 123 and 124
(RAN) 108 Part 4	AL 16
NAO 1-85-SAD-2-2 (dated 15.7.62) (FSN 0701-180-1440)	Revisions dated—15.10.62; 15.12.62; 15.3.63; 15.6.63; 15.9.63; 15.12.63; 20.7.64; 31.8.64; 1.3.65; 10.11.65
NWO 1-85-SAD-2-4 (15.7.62) (FSN 0701-180-1470)	Revisions dated—15.10.62; 15.12.62; 15.3.63; 15.6.63; 15.9.63; 15.12.63; 20.7.64; 31.8.64
NWO 1-85-SAD-4 (FSN 0701-180-1590)	Revisions dated—15.12.62; 15.7.62; 15.10.62; 15.3.63; 15.6.63; 15.9.63; 15.12.63; 15.3.64; 15.6.64; 15.9.64; 15.12.64; 1.12.65
NWO 1-85-SAD-2-5 (FSN 0701-180-1480)	Revisions dated—15.10.62; 15.12.62; 15.3.63; 15.6.63; 15.9.63; 15.12.63; 20.7.64; 31.8.64; 1.3.65; 10.11.65

AMENDMENTS TO AIR PUBLICATIONS—*continued*

<i>AP No.</i>	<i>AL or Leaflet</i>
Air Clues	December, 1966; January, 1967
Air Pictorial	January, 1967
Civil Nimbus Service Bulletins.. .. .	Transmittal Letter No. 7, 44 and 46
DCA Aeronautical Information Circulars	4/67 (dated 1.2.67)
DCA NOTAM	2/1967 (9.2.67)
DCA JASAP	AL 18 (September, 1966)
	AL 19 (1.1.67)
AAP No. 2 Appendix 18 Part 1 (1st Edition)	Sub AL 5 (AL 35323)
AAP No. 2 GCC 3910 (5th Edition) ..	Sub AL 3 (AL 34393)
AAP No. 2 GCC 4940 (4th Edition) ..	Sub AL 9 (AL 35340)
AAP No. 2 GCC 5305 (5th Edition) Books 1-24	Sub AL 16 (AL 34699)
AAP No. 2 GCC 5825 (7th Edition) ..	Sub AL 7 (AL 35302)
AAP No. 2 5840 (7th Edition) Books 1-5	Sub 7 (AL 34665)
AAP No. 2 GCC 5905 (7th Edition) ..	Erratum—sub AL 11 (AL 33148)
AAP No. 2 GCC 5910 (5th Edition) ..	Erratum—sub AL 11 (AL 33198)
AAP No. 2 GCC 5960 (6th Edition) ..	Sub AL 30 (AL 33646)
	Sub AL 31 (AL 33701)
	Sub AL 32 (AL 34213)
AAP No. 2 GCC 5985 (9th Edition) Books 1 and 2	Sub AL 5 (AL 35202)
	Erratum to Sub AL 5 (AL 35202)
AAP No. 2 GCC 6730 (4th Edition) ..	Sub AL 6 (AL 34681)
AAP No. 2 GCC Group I Section 15D (5th Edition)	Sub AL 4 (AL 35435)
AAP 711-16 Vol. 2 Part 1	AL 13
AAP 721-65 Vol. 2 Part 1	AL 46 and 47
AAP 721-65 Vol. 2 Part 2	AL 193 and 196
AAP 721-79 Vol. 2 Part 2	AL 331, 346 and 348
AAP 741-22 Vols. 1 and 6	AL 18 and 19
AAP 745-32 Vols. 1 and 6	AL 19
SCPO	1/67 dated (10.1.67)

(DNS 465/57/674)



RESTRICTED

ANO's 294-304/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
10th July, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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304	Stores General (Group Class 2815)—Diesel Engines and Components—Obsolescent Federal Stock Numbers.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

294—Polyurethane Foam—Precautions to be Observed Whilst Foaming in Situ

Occasions have arisen when it has been desirable to use a rigid polyurethane foam foamed in situ, e.g., filling of target floats, dan buoys, etc.

2. For the production of rigid polyurethane in this way Caradate 30, a di-isocyanate diphenylmethane (MDI) has been used.

3. MDI is mixed with polyester and catalyst and then foamed on site.

4. MDI is capable of producing local irritation and therefore the following recommendations should be exercised—

- (a) Avoid contact with skin.
- (b) Wear protective clothing.
- (c) Wear goggles.

(ACDC 177/1/89)

Section 2

PERSONNEL

UNCLASSIFIED

295—Allotments of Pay to Bank Accounts—Form AS 63—Allotment Declared or Altered

Many inaccuracies are found in Forms AS 63 received in Navy Office in respect of allotments to bank accounts. In particular incorrect detail as to the name and branch of the bank concerned and the number of the account to which the member wishes his allotment to be paid, causes avoidable work in Navy Office and leads to delay in arranging payment.

2. A common source of error is failure to distinguish correctly between the Commercial Bank of Australia, Ltd., and the Commercial Banking Co. of Sydney, Ltd.

3. When an allotment is declared payable to a bank account all possible action should be taken to confirm with the member that the account nominated is in force and that the particulars entered in the Form AS 63 are correct, e.g., the Savings Bank passbook should be sighted if in the member's possession and the name of the bank should not be abbreviated on the form.

4. Personnel should also be instructed to inform allottees that particulars of any change made in the bank or branch at which the allotment is payable (including the number of a new account if applicable) should be advised as early as possible to the Director of Navy Accounts, Navy Office, Melbourne. If this is not done delay in the payment of the allotment to the correct bank account will occur.

(DNA 271/53/49)

UNCLASSIFIED

296—Blood Grouping of Personnel on Entry

Navy Order 171 of 1967 is to be amended as follows—

Paragraph 4 under sub-heading "Recording" to be re-numbered to read "5".

(MDG 327/53/83)

(Navy Order 171 of 1967)

RESTRICTED

297—Medical Instructions for Naval Aircrew Personnel

Navy Order 220 of 1966 is to be amended as follows—

Paragraph 55—

Form F Med. 154—*Columns* "Method of Compilation" and "Disposal of Forms"—*delete* present instructions and *insert* in lieu—

"One copy to be completed and signed by the Medical Officer. Under cover of a letter to ACNB through the relevant Administrative Authority. After action in Navy Office the copy will for forwarded to the School of Aviation Medicine RANAS Nowra."

(MDG 327/251/6)

(Navy Order 220 of 1966)

Section 4**EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

298—Alteration and Addition Item—Type 12 DE's

The following Alteration and Addition Item is approved to be carried out in Type 12 DE's—

Class List Item No. 328 (Ex. TDL "DWEB").

- (a) *Item:* To extend the sound power phone line D85/86 to each wing of the Bridge for TAS look-outs, each line to be terminated by a water-tight upper deck socket and provided with a breast set Pattern 12500A and waterproof stowage box.
- (b) Due to the weight moratorium existing on HMA ships STUART and DERWENT the item cannot be carried out until the weight problem has been resolved. The item can be carried out in HMA ships YARRA and PARRAMATTA provided a weight surrender of 28 lbs. is made at bridge level.
- (c) *Reference:* HMAS DERWENT Form AS 1182 (DWEB), of 3rd August, 1966, forwarded under FOCAF AF 1212/25/2 of 17th August, 1966.

(CNTS 1224/272/142)

UNCLASSIFIED

299—Ammunition—Propellant—Landing—Destruction—Reports

Navy Order 685 of 1966 is to be amended as follows—

Paragraph 1—

Delete Lot MEM 170 from column headed "Propellant Lots and Sub-Lots affected".

(DAS 729/51/70)

(Navy Order 685 of 1966)

UNCLASSIFIED

300—Loan Clothing and Eye and Face Protection Equipment—Transfer of Responsibility for Procurement and Supply to Director of Victualling

Responsibility for the procurement and supply of certain items of protective clothing, and eye and face protection equipment will be assumed by Director of Victualling, as from 1st July, 1967.

2. Details are given in the appendix to this order of the items being taken over from the Director of Naval Stores, together with the catalogue numbers, and nomenclatures which are to be used from that date.

3. Stocks of this equipment held on charge in HMA ships and establishments on 1st July, 1967, are to be transferred from the Naval Stores account to the Loan Clothing account by Form AS 549, endorsed "No Financial Adjustment", and quoting this order as authority.

4. Demands for requirements are to be lodged with the Suptg. Victualling Store Officer, Sydney, NSW.

5. Scale of allowances of these items will be included in ABR 93, Part II, Section 5, in due course.

APPENDIX

300

<i>NS Pattern No.</i>	<i>Present Description</i>	<i>Victualling Catalogue No.</i>	<i>Denom.</i>	<i>Revised Description</i>
0461/590	Frames, hand, for filter glasses	42590	Set	<i>FRAME, HAND, filter glass</i>
0461/946	Frames, for glass for Sub. lookouts ..	42594	No.	<i>FRAME, glass, for Sub. lookouts</i>
0461/L72582	Glasses, with RAAF type metal frames, polarised 22-mm. wide	42616	Pr.	<i>GLASSES, SUN, metal frame, polarised, 22-mm.</i>
0461/L72583	Glasses, with RAAF type metal frame, polarised 24-mm. wide	42618	Pr.	<i>GLASSES, SUN, metal frame, polarised, 24-mm.</i>
0461/L72622	Goggles, welding, "Comweld"	42668	Pr.	<i>GOGGLES, INDUSTRIAL, welding, "Comweld"</i>
0461/L72620	Goggles for Oil Fuel Installations	42660	Pr.	<i>GOGGLES, INDUSTRIAL, oil fuel protection</i>
0461/3744	Goggle Holders w/o glasses	42671	Pr.	<i>GOGGLES, INDUSTRIAL, w/out lens</i>
0461/3745	Glasses safety (Clear) for Pattern 3744 ..	42725	Pr.	<i>LENS, GOGGLES, INDUSTRIAL, clear</i>
	Glasses, filter 10 BSS 679/47 for Oxy-Acetylene welding and burning w/o flux, for holder Pattern 3744—			<i>FILTER GLASS (for Catalogue 42671) for oxy-acetylene welding and burning w/out flux—</i>
0461/5881	Shade 3, Grade GW 1	42550	No.	<i>SHADE 3, Grade GW 1</i>
0461/5882	Shade 4, Grade GW 2	42551	No.	<i>SHADE 4, Grade GW 2</i>
0461/5883	Shade 5, Grade GW 3	42552	No.	<i>SHADE 5, Grade GW 3</i>
0461/5884	Shade 6, Grade GW 4	42553	No.	<i>SHADE 6, Grade GW 4</i>
0461/5885	Shade 3, Grade GW 1F	42554	No.	<i>SHADE 3, Grade GW 1F</i>
0461/5886	Shade 4, Grade GW 2F	42555	No.	<i>SHADE 4, Grade GW 2F</i>
0461/5887	Shade 5, Grade GW 3F	42556	No.	<i>SHADE 5, Grade GW 3F</i>
0461/5888	Shade 6, Grade GW 4F	42557	No.	<i>SHADE 6, Grade GW 4F</i>
0461/9146	Goggles, Cloud, Observing	42685	Pr.	<i>GOGGLES, SUN, cloud observing</i>
0461/388	Goggles and Eye Protector	42650	Pr.	<i>GOGGLES, INDUSTRIAL, eye protection</i>
0461/389	Goggles and Eye Protector w/plain glass ..	42652	Pr.	<i>GOGGLES, INDUSTRIAL, eye protection, clear lens</i>
0461/390	Goggles w/Tinted Glass	42654	Pr.	<i>GOGGLES, INDUSTRIAL, eye protection, tinted lens</i>
0461/4082	Goggles, Dark Adapting c/w Red Filters ..	42640	Pr.	<i>GOGGLES, DARKNESS, ADAPTATION, c/w filter glass, red</i>
0461/4084	Filters, Red for Pattern 4082	42570	No.	<i>FILTER, GLASS, red, goggles, darkness adaptation</i>
0461/4094	Discs, anti-mistant for Pattern 4082	42720	No.	<i>LENS, ANTIFOGGING, goggles, darkness adaptation</i>
0461/4074	Spectacles anti-glare	42610	Pr.	<i>GLASSES, SUN, anti-glare</i>
0461/4081	Spectacles anti-glare for DEMS	42613	Pr.	<i>GLASSES, SUN, anti-glare, DEMS</i>
0461/L73045	Spectacles anti-glare, nylon frames	42600	Pr.	<i>FRAME, SPECTACLE, glasses sun, anti-glare, nylon</i>
0461/4058	Screen, Head Welding, Helmet Type	42710	No.	<i>HELMET, WELDERS</i>
0461/4059	Spare Glasses for Pattern 4058, Shade II ..	42730	No.	<i>LENS, HELMET, WELDER'S, Shade II</i>
0461/3860	Plain or cover glass for Pattern 4058 Head-screen	42734	No.	<i>LENS, HELMET, WELDER'S, plain cover glass</i>
0461/L73010	Shield Hand for Welders	42780	No.	<i>SHIELD, ARC VIEWING, HAND HELD</i>
0461/L72910	Ear Plugs	40035	Set	<i>AURAL PROTECTOR, sound, plug, large</i>
		40036	Set	<i>AURAL PROTECTOR, sound, plug, medium</i>
		40037	Set	<i>AURAL PROTECTOR, sound, plug, small</i>
0461/4097	Vizor with green filter strips	42400	No.	<i>VISOR, foul weather with green filter</i>
0461/L72220	Cases for eye shields	42500	No.	<i>CASE, eye shields</i>
0461/705	Apron, vulcanised rubber, w/o hood	40019	No.	<i>APRON, RUBBER</i>
0461/1117	Bag PVC for stowage of contaminated clothing	40044	No.	<i>BAG, CONTAMINATED CLOTHING, PVC</i>
0461/942-5936-42	Boots, rubber, knee, men's, size 6-12 ..	40191-97	Pr.	<i>BOOT, KNEE, rubber, size 6-12</i>
0330/54	Fearnought cloth	10560	Yd.	<i>CLOTH, WOOL, FEARNUGHT, 21-oz., 30-in.</i>
0340/8431-33	Dresses combination canvas MN 7 size 1-3 ..	40828-30	No.	<i>COVERALL, SAFETY INDUSTRIAL, canvas, size 1-3</i>
0340/8439	Dresses combination canvas MN 7 size EL ..	40831	No.	<i>COVERALL, SAFETY INDUSTRIAL, canvas, size EL</i>
0461/9180	Helmet, blastproof, size 6½	42430	No.	<i>HELMET, CONSTRUCTION WORKER'S, blastproof, size 6½</i>

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NS Pattern No.	Present Description	Victualling Catalogue No.	Denom.	Revised Description
0461/9181	Helmet, blastproof, size 7	42431	No.	HELMET, CONSTRUCTION WORKER'S, blastproof, size 7
0461/9182	Helmet, blastproof, size 7 1/4	42432	No.	HELMET, CONSTRUCTION WORKER'S, blastproof, size 7 1/4
0330/943-1367 0461/L72530-	Thread black 60/3 Dustcoats grey size 3-8	42035 40639-44	Reel No.	THREAD, LINEN, black 60/3 COAT, PROTECTIVE, grey, 34-in.-44-in. (in 2-in. variations)

(D of V 512/51/82)

UNCLASSIFIED

301—Logs, Speed—Electro-Magnetic—Speed and Distance Transmitters—Speed Indication

(DCI (RN) 219/1967)

The numerical speed indicator fitted in the Electro-Magnetic Log Speed and Distance Transmitters, Pattern 0556/196526, /196630, /196654 and /196673, has proved to be of no operational or test value.

2. In view of the number of reports received of these numerical indicators becoming defective (particularly during testing) the speed counter unit should be removed and the window for the numerals blanked off.

3. Removal of the counter unit is simply achieved by removing the fascia plate of the speed transmitter unit, releasing the screws securing the counter unit, and disengaging the unit from the associated bevel wheel.

4. Blanking off the window can be achieved by securing to the back of the fascia plate, by an approved adhesive, a piece of aluminium alloy 3-in. x 1 1/2-in. x 16 WDG.

5. Future deliveries of these speed and distance transmitters will not include the numerical speed indicator.

(ACDC 400/1/289)

UNCLASSIFIED

302—Naval Stores General (Group Class 5821)—Radio and Television Equipment, Airborne—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5821	00-090-4035	Clip, Retaining	5340	00-090-4035	.. ..
5821	00-021-2118	Contact, Electrical	5935	00-021-2118	.. ..

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/59/907)

UNCLASSIFIED

303—Naval Stores General (Group Class 5999)—Miscellaneous Electrical and Electronic Components—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

Old FSN			New FSN		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5999	00-387-8565	Shield	5840	00-387-8565	.. ..

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/71/135)

RESTRICTED

UNCLASSIFIED

304—Stores General (Group Class 2815)—Diesel Engines and Components—Obsolescent Federal Stock Numbers

The USA has advised that the undermentioned Federal Stock Number for a Non-standard item is replaced by a Standard item.

2. Accordingly, the Federal Stock Number has been declared obsolescent superseded by the standard item, as follows—

OBSOLESCENT ITEM			SUPERSEDING ITEM		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
2815	00-212-6789	Gear, Helical	2815	00-745-7738	

3. The obsolescent symbol "O" is to be inserted against all records of the item.

4. Ships and establishments are to continue to demand the old Federal Stock Number until advice is received that stocks are exhausted.

(DSAP 1104/51/818)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
10th July, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

305—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During April, 1967

The magazines, pamphlets and amendments to publications, etc., and SC Series contained in the appendix to this order have been distributed to ships and services during April, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of P Series Amendments referred to in the appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
ABR 4	Amdnt. No. 27 dated February, 1967
ABR 27	Amdnt. No. 24 Amdnt. No. 25
BR 60	Change 7
BR 70	Cumulative Suppt. 1966 Edition corrected to 30.9.1966
BR 125	Suppt. No. 5 December, 1966 New Entries No. 5 December, 1966
BR 204 (1)	Change 3
BR 226B	Aust. Amdnt. AN 1 Aust. Amdnt. AN 2
ABR 1980	Change 1
BR 2014B	Change 5
BR 2050	Change 7
BR 2247 (10)	Change 3 Change 4
BR 2502	Change 1
ABR 5018	Amdnt. No. 10 dated March, 1967
ABR 5020	Change 3
ABR 5048	Change 1
MBR 8020	Spec. CV 7642-3 Issue 1 dated 4.5.1963 CV Specs. 31.1.1967 Service Manual of Preferred Values 31.1.1967 Spec. MOS/CV 2346 Issue 3 dated 1.3.1957 Amdnt. 1 dated January, 1967 Spec. MOA/CV 2311 Issue 4 dated 23.8.1957 Amdnt. 3 dated January, 1967

BR AMENDMENTS—continued

BR No.	Amendment No.
MBR 8074	Suppt. 1 January, 1967 Suppt. 2 February, 1967 Suppt. 11 November, 1966 Suppt. 12 December, 1966
MBR 8425	Amdnt. dated December, 1966

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
UK Journal of the Institute of Navigation	January, 1967
US Naval Institute Proceedings Vol. 93 No. 2	February, 1967
HMSO Government Publications Monthly Catalogue	December, 1966
Aeroplane	26.1.1967
Aeroplane	19.1.1967
Aeroplane	2.2.1967
Flight	26.1.1967
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Publication	Date
OP 2217	Change 1 15.2.1962
OP 2238	Change 1 1.4.1962
OP 2976 Vol. 2	Advance Change Notice 5-1
OP 3010 Vol. 4 Part 2	Advance Change Notice 5-1

ESTABLISHMENT LISTS AND AMENDMENTS

List No.	Date
AS 178	6.9.1965

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
109A-0001-1	AL 59
109A-0001 }	(AL 1089)-B 576 (Alt. 1)
109A-0002 }	(AL 1083)-B 607 (Alt. 2)
	(AL 1075)-B 633 (Alt. 1)
	(AL 1082)-B 641 (Alt. 1 Incp.)
	(AL 1068)-B 676 (Alt. 1 Incp.)
	(AL 1069)-B 677 (Alt. 1 Incp.)
	(AL 1076)-B 700 (Alt. 1)
	(AL 1066)-B 708

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
109A-0001 } 109A-0002 } 2—continued	(AL 1067)—B 709 (AL 1070)—B 710 (AL 1071)—B 711 (AL 1072)—B 712 (AL 1073)—B 713 (AL 1074)—B 714 (AL 1077)—B 715 (AL 1078)—B 716 (AL 1079)—B 717 (AL 1080)—B 718 (AL 1081)—B 719 (AL 1084)—B 720 (AL 1085)—B 721 (AL 1086)—B 722 (AL 1087)—B 723 (AL 1088)—B 724 (AL 1091)—B 725
109A-0002-1	AIL 1/67 AL 126, 127 and 128
109A-0001-5	AL 31
109B-0105-5	AIL 6/66, 7/66, 8/66, 9/66, 10/66, 11/66, 12/66 and 13/66
109B-0102-5	AIL 6/66, 7/66, 8/66, 9/66, 10/66 and 11/66 AL 30 and 31 AL 1 and 2
112G-0103-16	AL 1
113E-0108-16	AL 3
114J-03001	AL 36
116B-0304-1	AL 13, 15 and 18
116D-0102-1A	AL 8 (with O/L)
116D-0106-3A (N)	AL 2 and 3
116G-0602-1	AL 77
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1803U Vol. 1 Book 5	AL 68
2306M Vol. 2	(AL 25)—B 19 (AL 29)—B 23 (AL 18)—B 10 (Alt. 1)
2306U Vol. 2	AL 35
2438G Vols. 1 and 6	(AL 89)—B 69 (Alt. 2)
2531A and C Vol. 2	(AL 62)—A 4
2531B Vol. 2	(AL 225)—B 113 (Alt. 2 Incp.)
2531J Vol. 2	(AL 21)—B 17
2554E Vol. 2	(AL 23)—B 16
2876E Vol. 2	(AL 117)—B 72
2887N Vol. 2	(AL 21)—B 14 (Alt. 1)
2890SC Vol. 2	AL 39
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4121C Vol. 2 Part 1	AL 50
4282C Vol. 1	AIL 3/66 AL 148
4303C Vol. 1	AL 154 AL 14
4343A Vol. 1	(AL 297)—Z 17
4343A Vol. 3 Part 1 (N)	AL 21
4343B Vol. 2	AL 72
4343B Vol. 3 Part 1 (N)	(AL 147)—N 26
4343D Vol. 1 Book 2	AIL 1/66
4343D Vol. 2	AIL 1/66 and 2/66
4343E Vol. 1 Book 2	(AL 19)—B 15
4343E Vol. 1 Book 3	AL 14
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4471A Vol. 1 Part 2 Book 1	AL 188
4487D, E and F Vol. 5 (N) F/S Book 1 (Issue 1)	AL 14
4515E Vol. 3 (1st Edition)	AL 16
4647A Vol. 4 Part 17 (N)	AL 1
4677A and B Vol. 3 Part 1	AL 12
4685 Vol. 1 Part 1 Section 5	AIL 3/66 and 4/66
4723 Vol. 6	AL 27, 28 and 30
4723A Vol. 1 Book 1	AL 122 and 125
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4758A and B Vol. 2	(AL 55)—K 4 (AL 54)—L 3
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(N) 1	AL 49
(N) 140	AL 32 and Errata
(N) 380 (2)	AIL 1/66, 2/66 and 3/66
(N) 1023 (11)	AL 25
(N) 1024 Vol. 4 Part 6 Issue 2	AL 25

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(RAN) 8 Pilot's Notes	AIL (RAN) 30
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	AIL (RAN) 20
(RAN) 8 Vol. 1 Book 3	AIL (RAN) 21 and 22
(RAN) 8 Vol. 1 Book 6	AIL (RAN) 8
(RAN) 8 Vol. 2	AIL (RAN) 121, 122, 123 and 124
	AL 29 and 30
(RAN) 8 Vol. 3 Part 2	AL 67, 68, 69, 70, 71, 72, 73, 74 and 75
(RAN) 8 Vol. 6 Part 2	AL 53
(RAN) 8 Vol. 6 Part 3	AIL (RAN) 55
	AL 43
(RAN) 9 Vol. 1	AL 9 (New spine label attached)
(RAN) 9 Vol. 2	AIL (RAN) 4 Transmittal Letter No. 53
(RAN) 9 Vol. 6 Parts 1 and 2	AL 12 (New spine label attached)
(RAN) 9 Vol. 6 Part 4B	AL 18 (With spine label)
(RAN) 9A Vol. 1	AL 10
(RAN) 9A Vol. 6 Part 1	AL 6
(RAN) 9A Vol. 6 Part 2A	AL 13
(RAN) 9B Vol. 1	AL 1 and 2
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AAP No. 2 GCC 5825 (7th Edition)	Sub AL 8 (AL 366635)
AAP No. 2 GCC 5835 (8th Edition)	Sub AL 8 (AL 35278)

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AP No.	AL or Leaflet
AAP No. 2 GCC 5841 (7th Edition)	Sub AL 6 (AL 34743)
AAP No. 2 GCC 5910 (5th Edition)	Erratum to Sub AL 12 (AL 34327)
AAP No. 2 GCC 5935 (5th Edition) Books 1-17	Sub AL 6 (AL 34752)
	Sub AL 8 (AL 35197)
AAP No. 2 GCC 5950	Sub AL 4 (AL 35687)
AAP No. 2 GCC 5955 (6th Edition)	Sub AL 10 (AL 36543)
AAP No. 2 GCC 5960 (6th Edition)	Erratum to Sub AL 30 (AL 33646)
	Erratum to Sub AL 32 (AL 34213)
AAP No. 2 GCC 5985 (9th Edition)	Erratum to Sub AL 5 (AL 35202)
	Erratum to Sub AL 6 (AL 36423)
AAP No. 2 GCC 5999 (9th Edition)	Sub AL 6 (AL 35329)
AAP No. 2 GCC 6625 (7th Edition)	Sub AL 5 (AL 34403)
	Sub AL 6 (AL 36242)
AAP No. 2 GCC 7360 (4th Edition)	Sub AL 5 (AL 35549)
AAP No. 2 GCC 8010 (6th Edition)	Sub AL 6 (AL 35695)
AAP No. 2 GCC 9150 (5th Edition)	Sub AL 5 (AL 35793)
AAP No. 2 GCC Group G Section 6C (1st Edition)	Sub AL 4 (AL 32506)
AAP No. 2 GCC Group K Section 4 (18th Edition)	Sub AL 6 (AL 32935)
	Sub AL 7 (AL 35443)
AAP No. 2 GCC Group P Section 1 (6th Edition)	Sub AL 8 (AL 35461)
	Sub AL 9 (AL 35766)
AAP 702.1 Book 3 Parts 16-23	AL 181
AAP 702.50 Vol. 2 Part 1	AL 1, 2 and 3
AAP 711.16 Vol. 2 Part 1	AL 14
AAP 711.54 Vol. 2 Parts 1 and 2	AL 57, 58, 59, 60 and 62
AAP 721.65 Vol. 2 Parts 1 and 2	AL 184
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	Sub AL 6 (AL 31536)
	Sub AL 7 (AL 33864)
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	Wessex AD/Min. 006 (Issue 1)
	Wessex AD/Min. 007 (Issue 1)
	Wessex AD/Min. 008 (Issue 1)

(DNS 465/57/674)



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ANO's 306-319/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
12th July, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

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306—Deputy NOIC Papua New Guinea—Advice of Incidents Concerning Naval Authorities

On occasions Deputy NOIC PNG has been embarrassed by lack of information on incidents concerning the RAN which have occurred in the New Guinea Area. Apart from press enquiries, Deputy NOIC PNG, being at the centre of Papua New Guinea Administration, is inevitably required to liaise on all matters when Administration help is required.

2. So that Deputy NOIC PNG is kept informed, ships and authorities are to ensure that he is included in the address of all signals reporting incidents in the Papua New Guinea Area.

3. Communications for Deputy NOIC PNG are provided by MILCOMMAND, Port Moresby. Attention is drawn to details contained in ACB 2.

(D of C 2/4/174)

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307—HMAS SYDNEY—General Instructions

HMAS SYDNEY is a transport under the full command of the Flag Officer Commanding HMA Fleet.

2. The ship is to be at seven days notice for operations as a transport and is not normally to be at any greater notice for sea than twenty-four hours. Any extension of the notice for sea beyond twenty-four hours is to be reported by signal to the Naval Board.

3. The roles of the ship are as stated in Paragraph 2, Article 0104, of ACB 0332 (66).

4. To accomplish the training role, the ship may undertake short cruises on the east coast of Australia but—

(a) these cruises must normally be limited to such a radius from Sydney that, steaming within her economical speed range, she could be alongside at Garden Island within 72 hours and ready for loading;

(b) normally the ship is complemented for two watch steaming only; and

(c) exercises with the Army will be undertaken as directed by the Naval Board.

5. Service in HMAS SYDNEY will count as sea service.

6. The Captain is authorised to deal direct with representatives of the General Officer Commanding, Eastern Command, the Commander 1st Division and the Commander 1st Logistic Support Force in regard to the planning of exercises and operations. The Flag Officer Commanding HMA Fleet and the Flag Officer-in-Charge East Australia Area are to be kept informed of any such plans.

Division of Responsibility

7. The Captain HMAS SYDNEY is responsible for the loading and unloading of the ship. The following detailed arrangements have been made in this regard—

(a) Loading—

- (i) AHQ (Director of Movements) will provide a stores list and indicate priorities for discharge through the local Movements Staff.
- (ii) The ship will produce the stowage plan.
- (iii) The local Movements Staff will co-ordinate the loading programme and be responsible for shipping documentation and the movement to the ship of cargo and personnel in the order and at times nominated by the ship.
- (iv) The loading will be carried out by the ship's staff supplemented by Army personnel provided by the local Movements Staff.

(b) Unloading—

- (i) The Port Command will prepare a discharge plan, indicating the proposed sequence of discharge and type of lighterage to be used at each hatch, and submit it to the Captain, HMAS SYDNEY, for his agreement.
- (ii) The ship will be unloaded in the sequence agreed with the Port Command; ship's staff will operate all ship's gear and cargo handling equipment; additional labour required on board will be provided by the ship's Army Staff.
- (iii) The Port Command will establish a Liaison Staff which will have under command the documentation sections on board HMAS SYDNEY. This Liaison Staff will acquit the ship for all cargo discharged.

Tie Down Equipment

8. Tie down equipment will be provided by the Army and maintained by the Navy with assistance from the ship's Army staff.

Stevedoring Equipment

9. (a) The ship's allowance of mobile handling equipment is—

Two Massey Ferguson 205 Mark 11 Tractors, with hydraulic fork lift attachment of 4,000 lbs. capacity.

Three Crown type W227, 2,500 lbs. capacity Pallet Trucks.

One Crown model W2T90, 2,000 lbs. capacity Pedestrian Fork Truck

(b) Maintenance of this equipment is a Navy responsibility.

(c) Additional equipment required will be provided and maintained by the Army. The Navy will assist with minor maintenance when this equipment is embarked. When not in use the additional equipment will be removed from the ship.

Dunnage

10. Dunnage will be procured by the Navy but paid for by the Army.

(D of P 1213/201/27)

UNCLASSIFIED**308—Non-public Funds—Consolidation**

The Naval Board recently gave approval for HMAS CERBERUS Central Amenities Fund to be audited by public accountants covering six monthly periods under modified arrangements similar to those authorised by RI 1531, Paragraph 5, for periodical audits of Service System Canteens.

2. HMAS CERBERUS has consolidated thirty non-public funds into a Central Amenities Fund to reduce effort involved in auditing and accounting, and to improve the standard of bookkeeping. The subsidiary funds, now consolidated, support the various sporting and social activities in HMAS CERBERUS and the Ship's Fund. Wardroom Mess and Gunroom Mess accounts and Service System Canteen accounts are not included in the consolidation.

3. This information is promulgated for the benefit of HMA ships and establishments which have numerous small non-public funds, and which may wish to follow the procedure adopted in HMAS CERBERUS.

4. Administrative Authority's approval will be required prior to consolidation.

5. RI 1572 will be amended.

(DFSD 206/1/51)

UNCLASSIFIED**309—Radio Telegrams—Introduction of SNM (Special Naval Message) Service**

It has been decided to introduce a special Naval radio telegram service which will allow a certain reduction in charges. This service, which has been agreed by the Postmaster-General's Department and the Overseas Telecommunications Commission, will be known as the SNM Service.

2. The service will be introduced on 1st August, 1967. As from this date SNM messages may be originated—

(a) by friends and relatives in Australia if addressed to Naval personnel who are serving in one of HMA ships or at HMAS TARANGAU;

(b) by Naval personnel at sea in one of HMA ships or serving in HMAS TARANGAU addressed to an address in Australia.

3. The service will NOT be available—

(a) between personnel serving in HMA ships;

(b) between personnel serving in shore establishments other than TARANGAU;

(c) to or from Australian overseas territories;

(d) to or from any foreign countries.

4. The SNM service will employ a text of numeral groups to represent given phrases or words. Only three such groups, qualified as permitted by the code, may be used in any one message.

5. A flat rate of 55 cents (Australian) will be charged for each message transmitted.

6. The SNM service is in addition to, and does not replace, the normal full rate private radio telegram. As with the full rate telegram, messages are accepted for transmission subject to operational commitments and the electronic emission policy currently in force, and will be transmitted only after all Service traffic has been cleared.

7. Procedural and accounting instructions are contained as Annex A to this order and a list of permitted groups as Annex B.

ANNEX A

Procedure

Normal International Commercial procedure is to be employed. The letters SNM, which constitute a Paid Service Indicator, are to be inserted in each SNM message in accordance with ACP 124 COM SUPP (A)-1 Article 108, and are to be counted as one word. This indicator is not to be omitted.

2. All messages handed in for transmission from shore to HMA ships at sea are to include in the address the addressee's rank, name, personal number, the name of the ship and SYDNEYRADIO.

3. All messages handed in for transmission from HMA ships at sea are to include an address which is sufficiently complete to ensure delivery. Paid Service Indicator TF may be used.

4. Messages of the SNM category to and from HMA ships are to be routed, without exception, via SYDNEYRADIO. This is necessary to ensure proper accounting and, where necessary, decoding. Messages to HMA ships will be passed from Sydney Radio to Canberra Naval Radio Station for onward transmission over Naval circuits. Decoding of messages received on board HMA ships will be done by the Communications Staff before delivery to the addressee. Messages from HMA ships at sea are to be passed to Sydney Radio. Decoding will be performed by the PMG at CTO Sydney and the message then forwarded over inland telegraph circuits.

5. Coding of messages will be performed by the originator of the message. No deviation from the prescribed list of phrases, amplified as allowed, is permitted and the Communication Staff is responsible for checking each message. No SNM message is to contain more than three textual numeral groups.

Accounting

6. The charge for each message is 55 cents (Australian) regardless of the number of words in the group count.

7. The normal accounting arrangements for radio telegram traffic to and from HMA ships at sea will apply.

Special Arrangements

8. The Commander, Far East Fleet, has given an assurance that this type of message will, subject to operational commitments, be carried on Naval circuits under his control. However, United States authorities may, under certain circumstances, be unable to accept such transmissions on their operational circuits. In such cases special circuit arrangements or delivery by air mail may have to be employed.

ANNEX B

GROUPS FOR USE IN SNM MESSAGES

Note—No deviation from groups and amplifying data contained herein is permitted.

A. CORRESPONDENCE

1. Letter received many thanks
2. Letters received many thanks
3. Telegram received many thanks
4. Parcel received many thanks
5. Parcels received many thanks
6. Letters and parcels received many thanks
7. Letter and telegram received many thanks
8. Telegram and parcels received many thanks
9. Letters sent
10. Parcels sent
11. Letters and parcels sent
12. Many thanks for letter
13. Many thanks for parcel
14. Many thanks for telegram
15. No news of you for some time
16. Writing
17. Urgent
18. Please write or telegraph
19. Please write
20. Please telegraph
21. Please reply worried
22. Airgraph letter received many thanks
23. Letters arriving regularly
24. Have you received letters?
25. Your letters not received
144. Please address letters home
145. Have you received telegram?
146. No parcel for some time
147. Write same address
148. Parcel sent
149. Writing regularly
150. Your parcels not received
151. Have you received parcel?
301. Writing in detail
302. Letter you mentioned not received
303. Parcel was just what I wanted many thanks
304. Letters coming in fine
305. Send me letter by V-mail
306. Received you nice letter
307. *Tell to write
308. V-mail letter received, many thanks

B. GREETINGS

26. Greetings
27. Loving greetings
28. Fondest greetings
29. Love
30. Darling
31. All my love
32. All my love dearest
33. All our love
34. Fondest love
35. Fondest love darling
36. Best wishes
37. Greetings from us all
38. Loving greetings from all of us
39. Best wishes from all of us
40. Fondest wishes from all of us
41. Best wishes and good health
42. Kisses
43. Love and kisses
44. Fondest love and kisses
45. Well
46. All well at home
47. Best wishes for Christmas
48. Best wishes for Christmas and New Year
49. Loving wishes for Christmas
50. Loving wishes for Christmas and New Year
51. Loving Christmas thoughts
52. Happy Christmas
53. Happy Christmas and New Year
54. Good luck
55. Keep smiling
56. My thoughts are with you
57. Many happy returns
58. Birthday greetings
59. Loving birthday greetings
60. Happy Anniversary
61. You are more than ever in my thoughts at this time
62. Best wishes for a speedy return
63. Good show keep it up
64. Best wishes for New Year
65. May God grant you a year of happiness
66. God bless you and keep you safe

* Necessary additional information to be inserted by senders in texts above where blank space provided.

ANNEX B—continued

67. My thoughts and prayers are ever with you
152. Love and best wishes for New Year to all at home
153. Best love from Daddy
154. God be with you till we meet again
155. God bless you
156. Love to Daddy
157. My love and greetings on Mother's Day
158. My love and greetings on Father's Day
309. Regards to the gang
310. Greetings from the gang
311. Love to my Valentine
312. I hope you are still my Valentine
313. Love to all at home
314. Best wishes for a happy Easter
315. Best wishes for Thanksgiving
316. Love to the best mother in the world
317. Greetings to the best of fathers
318. Regards to everyone
319. May you be inscribed in the book of Life
320. May the Passover bring new hope and courage
- C. HEALTH**
68. Family all well
69. All well children evacuated
70. All well children returned home
71. All well and safe
72. Are you all right?
73. Are you all right worried about you
74. Please don't worry
75. Hope you are improving
76. Please telegraph that you are well
77. Are you ill?
78. Have you been ill?
79. Illness is not serious
80. Illness is serious
81. I have left hospital
82. In bad health
83. Health improving
84. Health fully restored
85. Son born
86. Daughter born
87. Am well and fit
88. Delighted to hear you are safe and well
89. So glad to hear you are better
90. Have not been ill
159. Hope you will soon be better
160. Have not been well
161. Injury is not serious
162. Anxiety unnecessary
163. Going into hospital
164. Operation over condition satisfactory
165. Hope children all well
166. Both well
167. Twins born
168. How are all the family?
169. Injury is serious
170. I am in hospital
321. Am getting along all right
322. *Received news of birth of
323. Expecting blessed event
324. Very happy in receipt good news
325. *How is
- D. PROMOTION**
91. Congratulations on your promotion
92. Very pleased to hear of your promotion
93. Delighted hear about your promotion
94. Have been promoted
95. Have been decorated
96. Have received commission
97. Congratulations on your commission
326. *Have received decoration
- E. MONEY**
98. †Please send me £.....
99. †Please send me Dollars
100. †Have sent you £.....
101. †Have sent you Dollars
102. Can you send me any money?
103. Glad if you could sent some money
104. Have received money
105. Have you received money?

* Necessary additional information to be inserted by senders in texts above where blank space provided.

† The amounts in words is to be inserted immediately following the test number.

ANNEX B—continued

106. Have you sent money?
107. Thanks for money received
108. Have not received money
109. Unable to send money
110. Sorry cannot send money
111. Do you need money?
112. †Have paid £..... into your banking account
113. I do not need money
114. Can you make be daily allotment?
171. Have sent money
172. Can you increase the allotment?
173. Are you receiving allotment?
174. Business very bad grateful financial assistance
175. Expect to be able to send you money next pay day
327. Can you make me an allotment?
328. Put money I sent in Savings Account
329. Shall I increase allotment?
330. To what address was money sent?
331. Buy war bonds with money
332. *Do not purchase
333. *Buy at best price without delay
334. *Sell at best price obtainable
335. *Will send money in
336. Receiving allotment regularly
- F. CONGRATULATIONS**
115. Congratulations on Anniversary best wishes
116. Congratulations lasting happiness to you both
117. Glad and proud to hear of you decoration everybody thrilled
118. Loving greetings and congratulations
119. Good luck keep it up
120. I wish we were together on this special occasion, all my best wishes for a speedy reunion
121. Very pleased to hear you have passed examination
122. Best wishes to all at home
123. Our thoughts are with you
124. Love to all the family
337. Congratulations on your decoration
338. We are all very proud of you
339. Congratulations on your graduation
340. Congratulations
- G. WAR DAMAGE**
- 125.* injured and in hospital
126. Injured and in hospital
127. Sorry to hear of damage hope all well
128. Sorry to hear of injury and hope not serious
129. Sorry to hear of injury and hope progress favourable
130. Sorry to hear of injury and hope soon be better
- H. MISCELLANEOUS**
131. What things do you need most urgently
132. Have done as you asked
133. Rumour not true
134. No
135. Very happy to hear from you dearest am fit and well
136. Hearing you voice on the wireless gave me a wonderful thrill
137. Hope to see you soon
138. Hope
139. Your telegram not received
140. Yes
176. Father
177. Mother
178. Wife
179. Fiance
180. ‡ writing telegraphing frequently
181. ‡ writing weekly
182. ‡ writing regularly receiving no reply
183. ‡ anxious welfare no news recently
184. ‡ receiving letters regularly
185. ‡ receiving letters occasionally

* Necessary additional information to be inserted by senders in texts above where blank space provided.

† The amounts in words is to be inserted immediately following the test number.

‡ The words Father, Mother, Wife or Fiance may be inserted before texts 180 to 188 if desired.

ANNEX B—continued

- | | |
|---|---|
| 186. †..... well, receiving allotment | 360. Leaving (day of week or date in month to be inserted) |
| 187. †..... recovered operation returning home | 361. Departure delayed |
| 188. †..... is entering hospital | 362. Departure further delayed |
| 341. Tell children about me | 363. Delayed..... days (number to be inserted) |
| 342. Tell me about children | 364. Arriving (day of week or date of month to be inserted) |
| 343. Send me a late photo | |
| 344. Hospitality of people here wonderful | |
| 345. Be happy and brave | |
| 346. Consult lawyer before taking action | |
| 347. Wait instructions in my letter | |
| 348. Am sending legal papers today | |
| 349. Have acted as you requested | |
| 350. Will keep you fully advised | |
| 351. Let me know when you find out | |
| 352. Wish I could be with you | |
| 353. Please send duplicate | |
| 354. §Has been sick | |
| 355. §Much better | |
| 356. §In good health | |
| 357. Expect to be home soon. Do not write further | |
| 358. Will contact you on arrival | |
| 359. Plans to return home changed. Letter follows | |

I. BEREAVEMENT

141. *Sorry to tell you died
142. *Sorry to hear died
143. The Lord bless and sustain you in your loss

NOTIFICATION OF PERSONAL BROADCAST

189. Hope to broadcast greetings from BBC listen

* Necessary additional information to be inserted by senders in texts above where blank space provided.

† The words Father, Mother, Wife or Fiance may be inserted before texts 180 to 188 if desired.

§ These texts can be inserted following selections of items in texts 176 to 179.

|| Day of week to be added.

(D of C 68/201/35)

Section 2

PERSONNEL

UNCLASSIFIED

310—Life Insurance for Members of the Forces

Members will have observed reports that in life insurance matters they are at a disadvantage by comparison with civilians.

2. Life insurance policies are written for a definite period and all terms and conditions are set out in the contract when it is effected. There is, therefore, no question of existing policies being rewritten without the consent of the policy holder so as to vary the protection afforded by those policies.

3. Members are advised that—

- insurance policies effected prior to their enlistment under ordinary peacetime conditions at normal premium rates should not be affected by their posting to a battle zone or combat area; these policies should, however, be read carefully to find out the exact scope of the cover provided;
- most insurance companies will continue to issue policies to servicemen on the same basis as if they were civilians, provided that they are not under notice of posting to a battle zone or combat area and are not subject to any other form of special or extra risks;
- new policies sought by a member after receiving notice of posting to a battle zone or combat area can be expected to include war risk clauses limiting the benefit payable on death due to war unless a substantially higher premium is paid while the member is exposed to war risks.

4. Members will see, therefore, that if prior to notice of posting to a battle zone or combat area, a member has effected a policy without a war risk clause, higher premiums cannot be called up by the insurance company when the member actually commences to render service which exposes him to war risk. On the other hand, difficulties can be expected by those who choose to delay effecting insurance until after receipt of notice of such a posting.

5. Whilst the matter of life insurance is essentially a personal matter between the individual member and the insurance company, the foregoing is brought to notice so that those members who might wish to effect life insurance are fully aware of the real advantages of effecting insurance prior to being given notice of posting to a battle zone or combat area.

(HPB 271/1/62)

UNCLASSIFIED

311—Transfer of Compassionate Leave Travel Entitlement—Members Serving Oversea

It has been approved that where a member is serving overseas his entitlement to compassionate leave travel from the overseas post may be transferred to his wife provided that—

- the wife has travelled to the overseas post at Departmental expense; and
- the compassionate leave—
 - has been granted to the member under existing rules; or
 - but for the exigencies of the Service (i.e., because the duties on which he is engaged make it inappropriate for him to be granted leave to travel to Australia) would be granted to the member under existing rules,
 in respect of a child of the marriage who has been left in Australia and is seriously ill, or dies or in some other way justifies the grant of compassionate leave; and
- the member prefers his wife to utilise his compassionate leave travel entitlement or he himself is prevented by the exigencies of the Service from taking the compassionate leave.

The conditions at (a), (b) (i) or (b) (ii) as appropriate and (c) must be fulfilled before entitlement can be transferred. It cannot be transferred in any other circumstances.

2. If subsequently it is necessary for the member to join his wife in Australia in connection with such a compassionate travel, he will have no entitlement to travel at Departmental expense.

3. Naval Pay Instructions (ABR 5020) will be amended accordingly.

(HPB 187/1/77)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

312—Survival at Sea Training—Responsibilities

The responsibilities for Survival at Sea Training have been reviewed and it has been decided that the responsibilities for this training are to be as follows—

<i>Authority</i>	<i>Responsibility</i>
SE and ST School, HMAS ALBATROSS	Overall responsibility for co-ordination of Survival at Sea Training and for developing and disseminating information for teaching Survival at Sea techniques.
	Survival at Sea Training for aircrew and training of officers and sailors responsible for safety and survival equipment.
PT School, HMAS CERBERUS	Survival Swimming Training.
Seamanship Schools, HMAS CERBERUS and PENGUIN	Seamanship Training for Survival at Sea.
Navy Office	Survival Policy, Training Requirements Overall, Life-saving Equipment, Boats, Medical Aspects, etc.

2. The responsibility given to the Safety Equipment and Survival Training School as the co-ordinating school in no way supersedes individual responsibilities given to other schools and authorities for the above specific aspects of survival training in accordance with ABR 27 and Navy Orders. It is essential that the closest liaison be established and maintained with these authorities whose advice is to be sought on all technical and policy matters.

3. A manual known as "The Survival Manual" is being produced at Navy Office for issue and use in September, 1967, and will be the basis for survival instruction. This book will include—

Chapter 1 PSYCHOLOGY OF SURVIVAL

- Training
- Will Power
- Mental Characteristics
- The Solitary Survivor
- Survivors in a Small Group
- Survivors in a Large Group

Chapter 2 THE HAZARDS

- The Solitary Survivor
- Falling Overboard
- Staying Afloat
- Flotation Devices
- Coughing and Choking
- Cramps

Chapter 3 THE LIFEJACKET VERSUS DROWNING

Chapter 4 THE LIFERAFT AND SURVIVAL

Chapter 5 SURVIVAL AND YOU

- When Abandoning Ship
- Voracious Fish
- In Boats
- On Land
- Dangerous Marine Life

Chapter 6 MEDICAL AND FIRST AID

Chapter 7 SURVIVAL IN WAR

Chapter 8 CASE HISTORIES

4. The SE and ST School will be responsible for collating further information and proposing amendments to this book as required.

5. Ships and training establishments may communicate direct with the Commanding Officer, HMAS ALBATROSS, on Survival at Sea Training matters.

(DMT 311/4/200)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

313—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 1669/1966)

Propellant of the following lots and sub-lots is due for withdrawal having reached their age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 3742	} SC 061	.. Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in. (FA)
RNC 3771		
RNC 3785		
RNC 3769	} SC 103	.. Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNC 3801		
RNC 3754	} SC 140	.. Cartridges— QF 5.25-in., Impulse Torpedo
RNC 3767		
RNC 3800		
RNC 3782		

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
RNC 3760	NF 029	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 3775		
RNC 3817		
RNC 3819		
RNC 3761	NF 052	Cartridges— QF 4-in. (FA)
RNC 3777	NF 042	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNC 3762	NF 059	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNC 3776		
RNC 3791		
RNC 3792		
RNP 72	SC 103	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNP 98		
RNP 71	SC 122	Cartridges— QF 4.5-in. (SL)
RNP 88		
RNP 70	SC 140	Cartridges— QF 5.25-in., Impulse Torpedo
RNP 87		
RNP 69	SC 150	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 96	NF 052	Cartridges— QF 4-in. (FA)
RNP 82	NF 059	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 92		
RNP 81	NF 080	Cartridges— QF 5.25-in.
RNP 93		
RNP 94	NF/S164-048	Cartridges— QF 4-in.
RNP 153R		
RNP 229R		
RNP 233R		
RNP 2360	SUK/XII	Motors Rocket A/C 3-in.
RNP 2366		
RNP 2418XA		
MEC 110	SC 122	Cartridges— QF 4.5-in. (SL)
MEC 108	SC 150	Cartridges— QF 4.5-in. (SL), Impulse Torpedo

2. Action to be taken by HMA ships, establishments and proof ranges

Return to nearest RN armament depot as early as practicable; if unable to comply within three months from date of this order, report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. Action to be taken at RAN armament depots

Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/57/160)

RESTRICTED

314—Anti-aircraft Fire Control—Long Range Control—FPS— Testing of Inductive Potentiometers

This order details a test by which ships' staff can assess periodically the state of the FPS tracker and predictor servo I. Pots.

2. The performance required from an I. Pot is that—

- it should be linear in its output within the tolerance laid down;
- there should be the minimum of noise on the output.

Tests carried out show that after some 20,000 oscillations of 315° the I. Pot retains its linearity when tested statically but the output is very noisy, this noise being due to the ridging of the roller and the build up of greasy carbon between turns. The records taken during the tests described in Paragraphs 3 and 4 below can now be used to detect the early symptoms of this noise and enable ships' staffs to decide when cleaning of I. Pots is necessary.

3. The test is carried out in the following manner—

- Connect equipment as shown in Navy Order Diagram 3/67 (1).
- Set I. Pot under test to approximately mid-travel.
- Set recorder AC gain ÷ 50 and 30 per cent.
- Switch on I. Pot supply and turn sector switch back and forth from 20° to 300°. The pen should move either side of centre.
- With the switch at 140° set recorder AC to ÷ 6 and 30 per cent. Switch repeatedly between 140° and 180° and adjust gain to produce a total pen movement of eight large divisions. (Position the servo so that pen deflects equally either side of centre.)
- Switch amplifier to "INPUT SHORTED", turn servo to left hand end of dial, and sector switch to 20°. Switch amplifier to normal; pen should be a short distance from one edge of paper. Move servo a few degrees from the end to check pen direction.
- Switch on pen volts and chart drive (½-in. per second). Turn servo steadily by hand at approximately 1 revolution per second of the handle. When the pen reaches one large division from the edge of the paper switch to the next sector (60°). Continue in this manner to the right hand limit of the servo. The test can be repeated in the opposite direction without stopping the recorder but in order to save recorder paper the record can be rewound on the spool until the pen is at the original starting point but at the opposite edge before repeating the test.

To assist in identifying the trace for comparison in the future, the sector angle should be marked at the centre of each sloping trace. A steady servo speed can be achieved by ensuring that the recording is a straight line sloping at between 45° and 60° across the paper.

Note—There will be a slight discrepancy between calibrating from the sector switch and calibrating from the servo dial. This is due to the angle between taps 1 and 4 being 340° whereas the switch range is 320°. This is an error of 6 per cent and can be ignored because the test is for track quality, not positional accuracy. If six steps of 50° had been used, and the unit connected across taps 2 and 4, the calibration would be correct but the pen record would need to occupy ten divisions, the total width of the paper; and the spring buffers on the recorder do not always permit this.

4. On a good I. Pot the record will show oscillations caused by the movement from turn to turn, whilst with an I. Pot on which the track is getting noisy the record will show peaks at isolated points. These points will be at least one to two small divisions high and will show that, although there is no actual break, something is causing the turns ratio to alter by at least four I. Pot turns. Peaks of this amplitude should be taken as an indication that the track is deteriorating and the position should be noted for future reference. If the peaks are greater than two divisions the I. Pot requires cleaning. A selection of records is shown in Navy Order Diagram 3/67 (2). A peak repeated at approximately 25° of I. Pot movement may indicate a high spot on the carbon roller.

Notes—

- (a) For these tests it is essential that the reset potentiometer in the pen recorder is in good condition. A preliminary check of this potentiometer should be made by using the amplifier shift controls to ensure that the pen moves smoothly from side to side.
 - (b) In many cases the servo wiring to the I. Pot under test need not be disconnected but to prevent damage to variable transformers, etc., all I. Pots should be disconnected before testing.
 - (c) Normally unused portions of the track give poor results until the roller has traversed the patch several times and it is advisable to run the servo from limit to limit several times before testing.
5. The tests should be carried out—
- (a) As a means of detecting a bad I. Pot in a prediction loop if varying answers outside tolerance are found during static tests.
 - (b) To detect a bad I. Pot if excessive noise appears on the gun order outputs.
 - (c) At intervals as promulgated in Planned Maintenance Schedules.

(DWE 737/253/49)

UNCLASSIFIED

315—Machinery—General—Safety Guards on Moving Machinery

(DCI (RN) 476/1967)

In the RN recently an accident at sea, in which a rating lost an arm, was caused primarily by the lack of a safety guard over a rotating shaft.

2. The attention of Commanding Officers is drawn to BR 3000, Article 0608. Where safety guards are removed from moving machinery, for whatever purpose, they are to be replaced as soon as possible. Where also, through failure to observe this instruction in the past, moving machinery is not protected by an efficient guard, this is to be provided without delay. Priority in the latter case is to be given to machinery located in gangways and other positions where accidents are particularly likely.

3. A job card record is to be kept—

- (a) of the removal of any safety guard which, for whatever reason, cannot be replaced immediately after work on the machinery concerned is completed;
- (b) of the requirement to replace any missing safety guards. Where, in exceptional cases these cannot be provided by ships' staff, an item covering the work is to be raised for inclusion in the next defect list.

4. Since refits afford the most serious opportunities for the loss of existing guards or failure to provide them, Commanding Officers are to ensure that adequate guards have been fitted by the refitting authority, before machinery is again brought into service after refit.

(CONS 177/1/88)

UNCLASSIFIED

**316—Stores General (Group Class 6240)—Electric Lamps—
Obsolescent Federal Stock Numbers**

The USA has advised that the undermentioned Federal Stock Numbers for Non-standard items are replaced by Standard Items.

2. Accordingly, the Federal Stock Numbers have been declared obsolescent superseded by the standard item, as follows—

OBSOLESCE ITEM			SUPERSEDI ITEM		
Group Class	Catalogue Number	ITEM NAME	Group Class	Catalogue Number	
6240	00-519-0928	Lamp, Incandescent	6240	00-660-8036	

3. The obsolescent symbol "O" is to be inserted against all records of the item.

4. Ships and establishments are to continue to demand the old Federal Stock Number until advice is received that stocks are exhausted.

(DSAP 519/75/140)

UNCLASSIFIED

**317—Stores General (Group Class 6250)—Ballasts, Lampholders and
Starters—Obsolescent Federal Stock Numbers**

The USA has advised that the undermentioned Federal Stock Numbers for Non-standard items are replaced by Standard Items.

2. Accordingly, the Federal Stock Numbers have been declared obsolescent superseded by the standard item, as follows—

OBSOLESCE ITEM			SUPERSEDI ITEM		
Group Class	Catalogue Number	ITEM NAME	Group Class	Catalogue Number	
6250	00-033-6651	Lampholder	6250	00-939-8126	

3. The obsolescent symbol "O" is to be inserted against all records of the item.

4. Ships and establishments are to continue to demand the old Federal Stock Number until advice is received that stocks are exhausted.

(DSAP 519/75/141)

UNCLASSIFIED

318—Weapons—A/S Mortar Mark 10—Emphasis on Correct Drill*(DCI (RN) 321/1967)*

A recent incident in the RN involving the inadvertent firing of three live projectiles during a pre-firing check was caused by the premature insertion of the impulse cartridges.

2. Attention is drawn to the need for strict adherence to the correct drill procedure, in accordance with BR 301.

*(DWE 177/1/90)***Section 5****BOOKS, CORRESPONDENCE, FORMS AND STATIONERY**

UNCLASSIFIED

319—Office Machines—Requirements for New, Improved or Replacement Items

All proposals for new, improved or replacement office machines are to be forwarded through the appropriate Administrative Authority to the Secretary, Department of the Navy, Navy Office, Canberra, marked "Attention: Director, O & M".

2. Irrespective of the intention to use the equipment in wholly Service Units, mixed Service and Civil Units or wholly Civil Units, purchase cannot normally be arranged without prior approval from the Commonwealth Stores Supply and Tender Board. The Director, Organisation and Methods, is responsible for investigating requirements and processing of requests for approval to purchase all the items of equipment classed herein as "Office Machines".

3. Office equipment firms should not be approached direct in regard to the possible installation of office machines. At the stage where new or improved office equipment can be envisaged or where a procedure or forms usage could lead to a new or different office equipment system, the matter should be referred to D/O & M who will initiate any approach necessary to office equipment firms.

4. Considerable embarrassment can be, and has been, caused when firms have devoted time explaining office equipment applications, including the formulation of procedures and the drawing up of forms, etc., to individuals, and the procedures are not adopted or the equipment order is given to another firm as the result of O & M investigation and Commonwealth Stores Supply and Tender Board practice.

5. Because of the rapid expansion and development of office machines it is not possible for all O & M officers to keep themselves fully up to date in this very wide field. For this reason, specialist machine officers have been provided in the Unit at Navy Office and, initially, all proposals for office machines will be referred to these officers.

6. Whilst, for requirements in New South Wales and Victoria, proposals may be referred by D/O & M to his officers located in Sydney or Melbourne, all machine investigations will normally be handled by the specialist officers. O & M representatives in Sydney and Melbourne may be approached in the formative stages in any office machine proposal but to avoid officers spending a disproportionate amount of time

on such work to the detriment of methods investigations, machine investigations are not normally expected to be taken to the stage of firm recommendation on the type or make of equipment to be sought.

7. Appendix A lists the items of equipment which, for the purposes of this order, are classed "Office Machines" and Appendix B sets out the details to be provided in each proposal. In all instances, Administrative Authorities are to be satisfied that the information sought at Appendix B has been faithfully provided.

8. Machines connected to and forming an integral part of an EDP System are excluded from the provisions of this order.

APPENDIX A**Office Machines—Requirements for New, Improved or Replacement Items**

Items of equipment which, for the purposes of this order, are classed "Office Machines"—

Accounting machines (including analysis and dissecting machines and ledger posting machines).

Adding and listing machines.

Addressing machines and associated embossing equipment (excluding plates, frames and furniture).

Calculating machines.

Cash registers.

Change issuing machines.

Cheque writing and/or signing devices (including pin-point typewriters).

Coin counting machines.

Dictating and transcribing machines.

Duplicating and reproducing machines.

Envelope sealing and/or opening machines.

Form folding and/or inserting machines.

Franking machines.

Internal Communication Systems other than PMG installations.

Microfilm equipment including cameras, film processing, film mounting, copiers, readers and reader/printers.

Package tying machines.

Perforating and punching machines.

Photocopying machines and similar equipment.

Plan printing and drafting equipment used by Drawing Sections in connection with the production of drawings, etc.

Printing and ancillary equipment (as defined below).

Punched card equipment.

Sorting machines, specialised filing equipment, visible index systems, mobile shelving, rotary index systems, motorised card filing cabinets.

Teaching machines, overhead projectors.

Ticket-issuing machines.

Time recorders.

Typewriters including electric, vari-type, pin-point and others not of standard type or performance.

APPENDIX A—continued

For the purposes of this order, printing machines and printing equipment shall include—

- (a) composing machines capable of composing type or preparing matter which simulates typesetting (including hot metal casting equipment, photo-mechanical equipment or devices, justowriters, varitypers, etc.);
- (b) printing machines, either letterpress, offset, gravure, silk screen or photo-mechanical, which print or reproduce from type, metal plate, plastic, rubber, film or paper-master (including xerox, map or plan-printing equipment and offset duplicators similar to multilith machines, but not including stencil duplicators and office photo-copying equipment);
- (c) ancillary equipment for process engraving, block making, stereo-typing, electrotyping, lithographic plate making, xerox, or ektalith plate making, die stamping, or gold blocking;
- (d) binding machines for folding, gathering, collating, stitching, punching, perforating, drilling, slitting, covering, mounting, ruling, binding, and cutting paper or other printing materials, for use with any of the types of equipment included in (a), (b) and (c) above, and the cost of which exceeds \$100.

APPENDIX B

Detail information to be provided in each office machine proposal—

- (a) Whether the machine is in replacement of an existing machine and, if so, whether, and in what number, other machines of the same type are in use.
- (b) The reason for replacement.
- (c) If the machine is not in replacement of an existing machine, reasons for procurement.
- (d) Work details and volume of expected workload per month, e.g.—
 - (i) *Spirit, stencil and offset duplicating machines*—The number and size of originals with the average copy requirement for each.
 - (ii) *Photocopying machines*—The number of foolscap size originals and separately, if applicable, some comments on the need for copying from publications, etc.
 - (iii) *Adding, calculating machines*—Brief details and typical examples of the tasks for the machine, digit capacity needed and whether there is a print out or listing requirement.
- (e) Whether a new procedure is involved and, if so, a summary description of the changes contemplated.

(D/O & M 462/51/43)

RESTRICTED

ANO's 320-326/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
20th July, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

J. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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RESTRICTED

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Section 2 PERSONNEL

UNCLASSIFIED

320—Herbert Lott Naval Trust Fund—Awards for Courses Held During the Period 1st April, 1966, to 31st March, 1967

The following sailors, as top qualifiers in their particular courses, have been awarded prizes of £10 sterling each from the Herbert Lott Naval Trust Fund—

Course	Rank at Time of Course	Name	Personal No.	Per Cent
POQMG ..	LSQMG ..	J. R. ARRON ..	R57523	86.2
POUW ..	A/LSUW ..	D. J. ANDERSON ..	R93078	87.0
PORP ..	LSRP ..	L. W. CHAPMAN ..	R45555	85.3
POUC ..	LSUC ..	J. A. BAILEY ..	R93052	93.5
POFC ..	LSFC ..	D. POOL ..	R93014	77.8
POWM ..	LSWM ..	S. P. ENNOR ..	R57305	80.2
CY ..	LTO ..	A. J. PHILLIPS ..	R57513	83
RS ..	LRO ..	J. H. THORP ..	R51331	82
POAAH ..	LAAH ..	P. A. S. GOLDSMITH	R93350	79
MECH TRG. } (2 Prizes)	LME ..	R. L. BINNINGTON..	R57437	88.3
	LME ..	P. HASKINGS ..	R57115	87.3
CERA/CMECH	ERA1 ..	K. J. FANKER ..	R42059	88.4
POEP ..	LEMP ..	C. F. C. GREEN ..	R57550	86
POEWE ..	LEMWE ..	I. HOLTHOUSE ..	R56957	89
POEC ..	LEMC ..	C. W. JOY ..	R55112	86
MECH ..	P/A/POME ..	R. R. HILLIER ..	R56593	77.9
AMECHAE ..	A/POAMAE	K. P. BRENNAN ..	R52160	71
POAMAE ..	LAMAE ..	K. W. CAMM ..	R52672	70
POEAC ..	LEMAC ..	M. G. DINGLE ..	R93190	83.9

2. The following is a list of courses which were not held during the year or for which there were insufficient candidates to justify the award of a prize. Top qualifiers in courses marked with an asterisk will be held over to compete in the 1967-68 competition—

POCD*	CNS*
RSS*	POAMW*
POAACM*	POEAW*
POASE*	COA
POEWR*	

3. Payment of these moneys is to be effected through the Ship's Cash Account as a charge to Division 687/1/01/1—Other Administrations Recoverable Expenditure, Admiralty "J", see Navy Accounts Manual, Article 332, Clause (2).

4. Authorisation of payment is to be made by the HMA ship for personnel borne on the date of issue of this order.

(DMT 201/201/22)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

321—Ammunition—Propellant—Landing—Destruction—Reports

Propellant of the following lots is due for withdrawal from service, having reached the age limit—

Propellant Lot Affected	Type	Nature of Ammunition, Etc., Which May be Involved
MEC 121	SC 103	QF 4-in., Marks 16* and 21

2. Action to be taken by HMA ships and establishments, proof ranges, etc. Return to the nearest Naval armament depot as early as practicable. If unable to comply within three months from the date of this order report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. Action to be taken by RAN armament depots Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/75)

RESTRICTED

322—Ammunition—Pyrotechnics—Markers Manoverboard, Smoke and Light—Mark N1—Introduction

401028 Markers, Manoverboard Smoke and Light Mark N1, have been introduced into the Fleet to replace Lights Indicating Lifebuoy as a means of marking the position of a man overboard both by day and night.

2. Description—The store consists of a tube approximately 21½-in. in length and 3½-in. in diameter which is supported by a concentric polystyrene float approximately 8-in. in diameter and 6-in. in length. The central tube contains a smoke composition which is ignited by a sea-cell situated in the bottom of the tube. A dense orange, non-toxic smoke is emitted for a minimum period of 15 minutes. Two electric lights (each of 20 lumens) are fitted on the top of the float, power being supplied to each by individual sea-cells fitted inside the float. Minimum burning time 1½ hours. Approximate weight 10 lb.

3. Mounting—

(a) At Guard Rails Afr (see Appendix)—A steel mounting is provided to take a 30-in. lifebuoy (DSN 4220-66-023-2967) on the inboard side and a "gate" type bracket for the marker on the outboard side. The mounting is designed to be secured to the deck at the guard rails in accordance with Drg. No. 229/188-1. The lifebuoy then being inboard of the rails and the marker outboard.

(b) Mounting for Ton Class Minesweepers and other small craft (at guard rails). Where the fitting of the steel mounting, described in Paragraph 3 (a) above, is impracticable, a wooden type mounting, similar to that as shown on Drg. No. 229/188-1, shall be provided.

(c) On Bridges—Lifebuoy and Marker Manoverboard Mark N1 shall be fitted in port and starboard wings of the bridge, in readily accessible stowages suitable for ships personnel to quickly throw the lifebuoy and marker overboard by hand. These stowages should be of simple construction and consist of "U" clips for the lifebuoy and an adjacent holder for the marker; the lifebuoy and marker being secured together with a 250-lb. breaking strain polyester filament lanyard.

4. Rigging (see Figure 2)—The lifebuoy is placed on the mounting and the marker positioned in the bracket. The "gate" is then closed and the retaining pin inserted. The retaining pin is secured to the marker release handle by a length of polyester filament rope, 250 lb. breaking strain, approximately 18-in. long, rove through the nylon bush provided in the mounting. The rope length shall be such that when marker and lifebuoy are in position, the release handle shall be 2-in. below the nylon bush. The toggle on the end of the orange couylene lanyard, attached to the marker, is passed through the hole in the bottom of the bracket. A 6-ft. length of polyester filament rope, 250-lb. breaking strain is secured to the "D" ring on the marker and rove over the top of the guard-rails and secured to the lifeline of the lifebuoy.

5. Operation (see Figure 2)—Lift and pull the release handle, this removes the retaining pin on the marker bracket "gate". Lift the lifebuoy from its bracket and throw it overboard with as much force as possible. The plastic plugs (marked sea-cell Plugs Figure 1) inside the floats and on the bottom of the smoke candle, being secured to the bracket by the orange couylene lanyard are removed as the marker is jerked out of its bracket in following the lifebuoy into the sea. The removal of the plastic plugs allow entry of water to the sea-cells when the marker hits the water. The smoke candles and lights should operate within three seconds of the marker entering the water.

6. Explosive Group—The markers are classified Group 9 for stowage in HMA ships.

7. Care and Maintenance—The markers are to be removed from the mountings when ships are alongside in harbour and stowed away. When replacing them prior to proceeding to sea, a careful visual inspection is to be made to ensure that none of the plastic plugs have become displaced.

8. The plastic cap over the top of the smoke candle is a protection against water lodging in the top. The rupture of this cap will in no way affect the function of the store. Should the cap become damaged it should be completely removed. On no account are these stores to be repainted on board.

9. It is extremely difficult to judge whether the two plastic closing plugs in each of the cells concealed by the polystyrene float are fully home. Should they not be, there is a danger of water (or damp atmosphere) entering the cells and making them live.

10. The lanyard must not be strained, as a relatively light pull will dislodge one or both closing plugs in one or more of the cells.

11. There is no difficulty in checking the plugs of the sea-cell for the smoke composition as these are clearly visible but examination of the light cell will be more difficult. The only practicable way of checking these concealed cells is to hold the marker up to the light and to sight down the slots containing the firing lanyard. If the bungs are home their tops should be seen to be level, and it should also be possible to see daylight through the slots.

RESTRICTED

323—Boilers—Register Fuel Hoses

(DCI (RN) 22/1967)

The maintenance and care of boiler front flexible fuel hoses is a matter of great importance since the useful working life of a hose depends largely on the installation and treatment received during service. Instructions on the layout and fixing of hoses are given here, and will later be included in BR 3001—

- (a) On installation the hose must be free from any form of tension and the radius of bending must not be less than 5-in.
- (b) Advancing and retracting the burner body must not induce a twist in the hose nor a bend of less than 5-in. radius.

2. Implementation of these requirements is, in many instances, made impossible by the disposition of the Oil Coupling Valves on the boiler front. Mal-alignment and poor positioning of the Oil Coupling Valves is to be rectified by defect action at the earliest opportunity.

3. Twisting of the hoses on advancing or retracting the burner body can be reduced to a minimum or eliminated by arranging the layout, as follows—

- (a) Before coupling up the fuel hose ensure that the burner body fuel connection is directed towards the Oil Coupling Valve hose connection, i.e., the plane containing the centre line of the burner body passes through the centre of the valve discharge stub. Lock the burner body at this angle.
- (b) Before finally connecting the fuel hose to the burner body and the shut off valve, lubricate the threads and bearing surfaces of the nuts and tails to reduce the tendency for the hose to twist on finally bolting the nuts.

After carrying out the above procedure, it is recommended that the burner body handles be positioned horizontally, for ease in handling the burners.

4. New hoses have an interrupted yellow line along their length. This line is to be renewed if unclear or obliterated and will show whether or not a hose is subjected to torsion.

5. Failures in service can be attributed to one or more of the following defects—

- (a) Hoses bent to a smaller radius than 5-in. either through bad installation or mal-treatment.
- (b) Twisting of the hose through poor initial boiler front installation or hose setting up and fitting.
- (c) External damage to the hose caused by an external blow or it being used as an anchor or lever.
- (d) Incorrect hose in use.

6. The correct hose for A/S frigates Type 12 is manufactured by Oil Feed Engineering Company Limited (a subsidiary of the BTR Industries Ltd.) to their specification A1128, Ad Ref. No. 235-147040. The test pressure for ½-in. bore hose to specification A1128 is to be 1,500 psig, which is slightly greater than twice the working pressure. BR 3000, Article 1916, which quotes 3,000 psig as the test pressure, will be amended accordingly.

7. Ships carrying hose specification 1176 can use them when dieso, at ambient temperatures, is being burned but not when hot FFO is the fuel. Specification A1128 is suitable for both dieso and FFO.

(ACDC 1205/258/45)

UNCLASSIFIED

324—Respirators Anti-gas—Care and Maintenance

Inspections carried out by the staff of the NBCD School in HMA ships and establishments in accordance with BR 2171, Chapter 6, have shown that the regulations for inspection, are not being complied with.

2. These inspections show varying degrees of damage, caused in the main, by stowing AGRs in kitbags.

3. In order to obviate such damage, attention of all personnel is drawn to BR 2171, Chapter 6. These instructions are to be strictly adhered to.

(DWE 710/51/223)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

325—ABR 5063—Electronic Data Processing—Volume 1—General

ABR 5063—Electronic Data Processing—Volume 1—General, has now been introduced. Distribution is being effected by SNSO, Sydney, as detailed in the Appendix to this order, without demand. Subsequent demands for copies of this publication should be made on SNSO, Sydney.

2. ABR 5063—Volume 1 replaces and supersedes the "Introductory Handbook of Electronic Data Processing in the Department of the Navy" which should now be disposed of.

APPENDIX

Distribution of ABR 5063

Electronic Data Processing—Volume 1—General

Navy Office		Qty.	Navy Office		Qty.
Minister	.. ..	1	DTWP	.. ..	1
Secretary	.. ..	1	DSMP	.. ..	1
1NM	.. ..	1	DNAP	.. ..	1
2NM	.. ..	1	D of C	.. ..	1
3NM	.. ..	1	D of O	.. ..	1
4NM	.. ..	1	CONS	.. ..	1
FAS (E & G)	.. ..	1	DSS	.. ..	1
FAS (F & M)	.. ..	1	MDG	.. ..	1
C of S	.. ..	1	DCNP	.. ..	1
AS (EDP)	.. ..	60	DOA	.. ..	4
AS (CE)	.. ..	4	DMT	.. ..	4
AS (NS)	.. ..	1	DNES	.. ..	1
AS (F)	.. ..	1	D of R	.. ..	2
DCNS	.. ..	1	DFWS	.. ..	1
DGFE	.. ..	1	DNR	.. ..	1
DPCO	.. ..	1	DPS	.. ..	1
DNI	.. ..	1	DNLS	.. ..	1
D of P	.. ..	1	DWRANS	.. ..	1

<i>Navy Office</i>	<i>Qty.</i>	<i>Navy Office</i>	<i>Qty.</i>
ACDC	1	DNA	4
ACTP	1	HPB	10
ACMD	1	CANTS	2
ACAE	1	A & LO (M)	2
PNA	1	DPR	1
PEE	1	OIC REGISTRY	1
PME	1	REGISTRAR	1
PE (M & S)	1	INTERNAL AUDIT	1
DWE	1	DSAP	3
DMED	1	DSAP (M)	6
DNQA	1	DNS	8
DSMR	1	D of V	5
DFSD	1	D of S (Air)	5
DMD	1	DMS	5
DNW	1	DAS	5
CEO (GS)	4	NTS Annex (Sydney)	1
DEA	1		

<i>HMA Ship or Establishment</i>	<i>Qty.</i>	<i>HMA Ship or Establishment</i>	<i>Qty.</i>
FOCAF	6	HMAS KUTTABUL	5
HMAS MELBOURNE	10	HMAS HARMAN	5
HMAS SYDNEY	10	HMAS NIRIMBA	10
HMAS PERTH	4	HMAS WATERHEN	2
HMAS HOBART	4	HMAS ALBATROSS	10
HMAS DUCHESS	4	NAS 723	1
HMAS VENDETTA	4	NAS 724	1
HMAS VAMPIRE	4	NAS 725	1
HMAS ANZAC	4	NAS 816	1
HMAS YARRA	4	NAS 817	1
HMAS PARRAMATTA	4	AJASS Nowra	1
HMAS STUART	4	C of P Sydney	2
HMAS DERWENT	4	Hydrographer	2
HMAS SUPPLY	4	GOSIEA	5
HMAS QUEENBOROUGH	4		(1 for
HMAS DIAMANTINA	4		Codock)
HMAS MORESBY	4	RANEL	2
HMAS KIMBLA	2	RANTE	2
HMAS PALUMA	2	Area Secretary	2
HMAS GULL	1	Area Finance	4
HMAS HAWK	1	Internal Audit	1
HMAS IBIS	1	Civil Personnel	2
HMAS TEAL	1	INO Sydney	1
HMS TRUMP	1	Chief Supt. of Supply	1
HMS TABARD	1	SSA	4
		SNSO	9
<i>New South Wales—</i>		SASO	6
FOICEA	5	SMSO	4
HMAS WATSON	10	SSO (Air)	4
HMAS PENGUIN	10	M & DSO	1
HMAS RUSHCUTTER	5	SAMR	2
HMAS CRESWELL	10	GMGID	50

<i>HMA Ship or Establishment</i>	<i>Qty.</i>	<i>HMA Ship or Establishment</i>	<i>Qty.</i>
<i>Western Australia—</i>		ANA (Washington)	10
NOIC WA	4	RCN	2
RANA & WED Byford	1	USN	4
HMAS LEEUWIN	4	RNZLO Canberra	1
		RNLO BDLS Canberra	1
<i>Victoria—</i>		COMFEF	1
NOIC VIC	3	Dept. of Defence	1
HMAS CERBERUS	40	Defence Library	1
VSO Melb.	2	Dept. of Army	1
Internal Audit (Southern		Dept. of Air	1
Division)	1	The Secretary, Public Service	
GOSI Vic.	1	Board, Canberra	1
INO Maribyrnong	2	The Director, Dept. of Works,	
GMWD	20	Canberra	1
		Auditor-General, Canberra	2
<i>Northern Territory—</i>		Chief Auditor, New South	
NOIC NA	2	Wales	1
Darwin Naval Radio	1	Chief Auditor, Victoria	1
		Chief Auditor, Queensland	1
<i>New Guinea—</i>		Chief Auditor, Western Aus-	
NOIC NG	3	tralia	1
D/NOIC NG	1	Chief Auditor, South Australia	
		US Naval Attache and Naval	
<i>Queensland—</i>		Attache for Air, Embassy of	
NOIC QLD	3	the United States of America,	
Principal Naval Overseer,		Canberra	1
Queensland	1		
<i>South Australia—</i>		<i>Future Issues—</i>	
NOIC SA	3	HMAS BRISBANE	4
		HMAS STALWART	4
<i>Tasmania—</i>		HMAS PLATYPUS	2
NOIC TAS	3	New Type 12's	4 ea.
		Submarines	1 ea.
ANRUK	10		
MOD (Navy)	2		

(AS (EDP) 465/1/732)

UNCLASSIFIED

326—Adoption of International Standard Paper Sizes

Throughout the world there are many different standards for the sizes of printing and writing papers and envelopes. Recently it was decided to adopt, for use in Australian Government printing and stationery, the sizes recommended by the International Standards Organisation. Conversion to the International sizes has already commenced. This navy order describes the International sizes and the traditional sizes they replace, together with details of the effect of the changeover so far as the RAN is concerned.

2. International Paper Sizes—

(a) The standard paper sizes recommended by the International Standards Organisation comprise the series known as A, B and C. In each series

the shape of the basic size and all normal subdivisions is the same so that the sides are always in the proportion $1 : \sqrt{2}$, that is, $1 : 1.414$ approximately.

- (b) In the A series the basic size is A0 (841-mm. \times 1,189-mm.) which occupies an area of one square metre. All A sizes derive from this standard and are described by the letter A followed by a number. Half A0 is A1; half of A1 is A2, and so on. The A series is used for most printing and stationery.
- (c) The B series is based upon the size B0 (1,414-mm. \times 1,000-mm.) and the normal subdivisions provide sizes between the A subdivisions; thus B5 is midway between A4 and A5. The B sizes were originally intended for envelopes and posters but because a better progression can be obtained by using both the A and B ranges than the A range alone, B sizes are also used for Australian Government publications. For example, B5 is the standard for parliamentary papers.
- (d) The following table shows the range of sizes, which can be obtained by the progressive subdivision of the basic sizes A0 and B0—

A Series		
	Millimetres	Inches
A0	1,189 \times 841	46.81 \times 33.11
A1	841 \times 594	33.11 \times 23.39
A2	594 \times 420	23.39 \times 16.54
A3	420 \times 297	16.54 \times 11.69
A4	297 \times 210	11.69 \times 8.27
A5	210 \times 148	8.27 \times 5.83
A6	148 \times 105	5.83 \times 4.13
A7	105 \times 74	4.13 \times 2.91
A8	74 \times 52	2.91 \times 2.05
A9	52 \times 37	2.05 \times 1.46
A10	37 \times 26	1.46 \times 1.02

B Series		
	Millimetres	Inches
B0	1,414 \times 1,000	55.67 \times 39.37
B1	1,000 \times 707	39.37 \times 27.83
B2	707 \times 500	27.83 \times 19.68
B3	500 \times 353	19.68 \times 13.90
B4	353 \times 250	13.90 \times 9.84
B5	250 \times 176	9.84 \times 6.93
B6	176 \times 125	6.93 \times 4.92
B7	125 \times 88	4.92 \times 3.46
B8	88 \times 62	3.46 \times 2.44
B9	62 \times 44	2.44 \times 1.73
B10	44 \times 31	1.73 \times 1.22

Note—These are trimmed sizes.

- (e) C sizes, based on C0 (1,297-mm. \times 917-mm.) fall between A and B sizes. They are used solely for envelopes.

3. Traditional Sizes—

- (a) The following table lists the principal traditional sizes for printing and writing papers and the dimensions of their regular subdivisions. Some of these sizes will continue to be used until the transition from traditional sizes to International sizes is complete.

		Untrimmed Inches	Trimmed Inches
ROYAL	Quad	50 \times 40	..
	Double	40 \times 25	..
	Broadsheet	25 \times 20	..
	Folio	20 \times 12½	..
	Quarto	12½ \times 10	12 \times 9½
MEDIUM	Octavo	10 \times 6½	9½ \times 6
	Quad	46 \times 36	..
	Double	36 \times 23	..
	Broadsheet	23 \times 18	..
	Folio	18 \times 11½	..
DEMY	Quarto	11½ \times 9	11 \times 8½
	Octavo	9 \times 5½	8½ \times 5½
	Quad	45 \times 35	..
	Double	35 \times 22½	..
	Broadsheet	22½ \times 17½	..
LARGE POST	Folio	17½ \times 11½	..
	Quarto	11½ \times 8½	10½ \times 8½
	Octavo	8½ \times 5½	8½ \times 5½
	Quad	42 \times 33	..
	Double	33 \times 21	..
CROWN	Broadsheet	21 \times 16½	..
	Folio	16½ \times 10½	..
	Quarto	10½ \times 8½	10 \times 8
	Octavo	8½ \times 5½	7½ \times 5
	Quad	40 \times 30	..
FOOLSCAP	Double	30 \times 20	..
	Broadsheet	20 \times 15	..
	Folio	15 \times 10	..
	Quarto	10 \times 7½	9½ \times 7½
	Octavo	7½ \times 5	7½ \times 4½
FOOLSCAP	Quad	34 \times 27	..
	Double	27 \times 17	..
	Broadsheet (Brief)	17 \times 13½	16½ \times 13½
	Folio	13½ \times 8½	13½ \times 8½
	Quarto	8½ \times 6½	8½ \times 6½
Octavo	6½ \times 4½	6½ \times 4	

4. RAN Policy—

(a) The following policy has been approved for adoption—

(i) New Reference Publications—

Size A4 is to be used for printing all new reference publications. To accommodate such publications, binders size 12½-in. × 9-in. will be used. New reference publications which form part of an existing series will continue to be printed in the series size.

(ii) Existing Reference Publications—

Existing reference publications, which at present are in a multitude of different sizes, will continue to be amended in the present manner by providing identical size replacement pages. Should an opportunity present itself to reprint in whole an existing publication, the changeover to A4 size will be made if practicable.

(iii) Australian Navy Orders—

Australian Navy Orders will be printed on size B5 from the first issue next year. The present binder used for navy orders will continue to be used for the new size.

(iv) Official Forms—

All new forms printed will be printed in the new International sizes as far as possible. Reprints of existing forms will be changed to the new sizes where such change does not adversely affect existing procedures, e.g., filing or binding requirements.

(v) Official Letterheaded Paper—

Letterheaded paper and minute paper will be in A4 and A5 sizes only together with associated blank white and coloured papers, carbon papers, etc. The present blank brief size (approximately 16½-in. × 13½-in.) will be replaced by A3 size.

(vi) Semi-official Note Paper—

Semi-official note paper will be printed in two sizes—

(a) Single sheets—A5.

(b) Folded sheets—A4 (actually size A5 when folded).

(vii) Envelopes—

The following type and size of envelopes will be adopted for general use. Envelopes sizes which do not conform to these standards are not to be adopted without Navy Office approval—

No.	Dimensions (Inches) Depth stated first	Type*	Colour	Remarks
B4	13.90 × 9.84	Pocket	Manila	To be used for enclosing a sealed C4 envelope containing classified material.

* Banker = Side opening.
Pocket = End opening.

No.	Dimensions (Inches) Depth stated first	Type*	Colour	Remarks
C4	12.76 × 9.02	Pocket	Manila	To be used for enclosing A4 papers where because of the bulkiness of such papers it is not practical to fold them in half.
—	7.50 × 10.50	Pocket	Manila	Navy Office use only. For mailing Australian Navy Orders.
B5	6.93 × 9.84	Pocket	Manila	To be used for enclosing a sealed C5 envelope containing classified material.
C5	9.02 × 6.38	Pocket	Manila	To be used for enclosing— (i) A4 papers which have been folded in half. (ii) A5 papers where because of the bulkiness of such papers it is not practical to fold in half.
B6	4.92 × 6.93	Pocket	Manila	To be used for enclosing a sealed C6 envelope containing classified material.
C6	4.49 × 6.38	Banker	Manila	To be used for A5 papers which have been folded in half.
—	5 × 9 (approx.)	Pocket	Manila	To be used for enclosing a sealed DL envelope containing classified material.
DL	4.33 × 8.66	Banker	Manila	To be used for enclosing A4 papers which have been folded with two parallel folds.
DL	4.33 × 8.66	Banker	White	To be used for enclosing A4 papers which have been folded with two parallel folds where it is policy to enclose such papers in white envelopes.

* Banker = Side opening.
Pocket = End opening.

RESTRICTED

<i>No.</i>	<i>Dimensions (Inches) Depth stated first</i>	<i>Type*</i>	<i>Colour</i>	<i>Remarks</i>
C6	4.49 × 6.38	Banker	White	To be used for enclosing semi-official note paper which is in the A5 size.

5. Changeover Arrangements—

(a) Authorities should order forms and stationary in the normal manner. Arrangements to procure stocks of stationery in the new sizes will be made at Navy Office. Stocks of old size letterheads, etc., should be used up before the new sizes are brought into use. It is expected that the changeover will be completed over a period of approximately two years.

* Banker = Side opening.
Pocket = End opening.

(DO & M 469/1/43)



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
25th July, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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333	Stores—Reports of Stocktaking and Stocktaking Discrepancy Reports.

Section 2
PERSONNEL

UNCLASSIFIED

327—Re-engagement of Sailors of the Permanent Naval Forces

Navy Order 7 of 1966 is to be amended as follows—

(a) Add new Paragraph 13.

"13. In order that a decision as to the medical fitness of a member for re-engagement may be available as early as possible, the relevant AF Med. 1 is to be forwarded to the Medical Director-General immediately upon completion of the medical examination for re-engagement. Dispatch of the form is not to be delayed if the results of the chest X-ray examination are not available. In such a case this report is to be made subsequently on AF Med. 7."

(b) Renumber old Paragraphs 13 and 14 to read 14 and 15.

(HPB 307/4/6)

(Navy Order 7 of 1966)

UNCLASSIFIED

328—Sailors—Qualifications of Air Electrical Branch Sailors to Sign Form A 700 as Supervisory Sailors

It has been decided to discontinue the policy whereby selected Acting Leading Electrical Mechanics AW and AC may be authorised to sign the Form A 700 as full supervisory sailors.

2. Due to increasingly complex equipments, procedures and attendant increases in highly skilled maintenance sailors it has been further decided to preclude Leading Electrical Mechanics AW and AC from this responsibility.

3. Accordingly, Leading Electrical Mechanics AW and AC (acting and confirmed) are to be awarded limited supervisory status only, as is done with the LAM, AE and W Categories.

4. The AW and AC Sections of the Aircraft Inspection Schedules will be revised to conform with the above policy.

5. This instruction will be incorporated in AP (RAN) 140—Royal Australian Naval Air Maintenance Manual.

6. Navy Order 544 of 1966 is hereby cancelled.

(ACAE 303/31/25)

(Navy Order 544 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

329—Air Storage Cylinders—0443/9056—150-Cu.-Ft. Aluminium Alloy

(DCI (RN) 1262/1965)

In order to provide more positive securing of the cylinder valves to the stainless steel neck adaptors of the above assemblies it has been decided that the torques to which the valve is secured into the adaptor, and the adaptor into the neck of the cylinder, should be increased from 50-lb.-ft. to 200-lb.-ft.

2. 0443/9056 cylinder assemblies at present in service have their valves secured at the old torque of 50-lb.-ft. and it is intended that the higher torque be applied when the cylinders are returned to dockyards for their five-yearly test.

3. In the meantime, services holding 0443/9056 cylinders are to ensure that the pressure in these cylinders does not fall below 150 psi in order to effect a more positive "bite" between the mating threads of the adaptor, valve and cylinder.

4. Should cylinder pressures fall below 150 psi, care should be taken in stowage and handling to ensure that the valves do not unscrew.

5. 0443/9056 cylinders which start to leak at the joints or have loose valves or adaptors should be completely discharged, returned to Naval Stores and replacements demanded.

6. Defective cylinders should be reported on Forms AS 2022/AD 400 and action taken in accordance with ABR 4, Article 0907, except that the items are also to be clearly labelled "Defective Joints" and a reference shown on this label and the forms to this order.

(DNS 512/80/243)

UNCLASSIFIED

330—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 402/1967)

Propellant of the following lots and sub-lots is due for withdrawal having reached their age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 3953 .. } RNC 3976 .. }	SC 048 ..	Cartridges— QF 4-in. (FA), QF 4-in. (SL)
RNC 3938 .. } RNC 3952 .. }	SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in., QF 4.5-in. (SL)
RNC 3951 .. } RNC 3980 .. }	SC 122 ..	Cartridges— QF 4.5-in. (SL)

*Propellant Lots and Sub-lots Affected**Type**Nature of Ammunition, Etc., Which May be Involved*

RNC 3936 .. } RNC 3950 .. } RNC 3962 .. } RNC 3979 .. }	SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNC 2107 .. } RNC 2113 .. }	SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 3946 .. } RNC 3960 .. } RNC 3991 .. }	NF 029 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 3947R ..	NF 052 ..	Cartridges— QF 4-in. (FA)
RNC 3945 .. } RNC 3959 .. } RNC 3970 .. } RNC 3974 .. } RNC 3990 .. } RNC 3992 .. }	NF/S164-048 ..	Cartridges— QF 4-in.
RNP 174 .. } RNP 200 .. }	SC 122 ..	Cartridges— QF 4.5-in. (SL)
RNP 199 ..	SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNP 198 ..	SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 166 .. } RNP 179 .. } RNP 184 .. } RNP 185 .. }	NF 042 ..	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 189 .. } RNP 191 .. }	NF 059 ..	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 168 .. } RNP 180 .. } RNP 186 .. } RNP 195 .. }	NF/S168-048 ..	Cartridges— QF 4.5-in. (SL)
RNP 196 .. } RNP 311R .. } RNP 312R .. }	NF/S198-054 ..	Cartridges— QF 5.25-in. (SL), QF 4.5-in. (SL)
RNP 183 .. } RNP 187 .. } RNP 188 .. } RNP 192 .. }	NF/S224-058 ..	Cartridges— QF 5.25-in. (SL)
MEC 125 ..	SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
X 595	} N/S 198-054 ..	Cartridges— QF 4.5-in. (SL), QF 5.25-in. (SL)
X 596		
X 597		
X 598		
X 599		
BS 19546 ..	} SUK 1.7-0.6 ..	Motors Rocket 2-in. Flare
BS 20625XA ..		

2. *Action to be taken by HMA ships, establishments and proof ranges* Return to RAN armament depot as early as practicable. If unable to comply within three months from date of this order, report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. *Action to be taken at RAN armament depots* Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/83)

UNCLASSIFIED

331—Boilers—Main Boiler Refractory—Change of Material— RAN Type 12 Destroyer Escorts

Recent sea trials have shown that Plastic Refractory (Pattern No. 0474/889) is an effective substitute for Plastic Chrome Ore (Pattern No. 0474/7724) in certain applications. It has also been shown to be more durable.

2. Plastic Chrome Ore is used for side wall cappings on the top of firebrick courses, and water wall header protection ramps, in the furnaces of ships' main boilers, as follows—

HMAS YARRA
HMAS PARRAMATTA
HMAS STUART
HMAS DERWENT

3. Future replacements of Plastic Chrome Ore in the areas quoted, are to be made with Plastic Refractory (Pattern No. 0474/889).

(ACDC 512/87/209)

UNCLASSIFIED

332—Refrigerated Foodstuffs—Care and Protection

The cause of a recent serious loss of refrigerated stores in one of HMA ships was found to be due to a heavy impregnation with a bituminous odour and taste occasioned by—

- The presence of fumes within the cold and cool rooms due to the exchange of cold air from these spaces with warm air containing a high concentration of fumes when the doors to the rooms were opened.
- High temperatures recorded in the cold and cool rooms due to the air exchange and defects in the refrigerating machinery.

2. Bitugel, a bituminous based paint, had been used to preserve water ballast tanks, and the manhole covers, located in the flat outside the entrances to the controlled temperature storages, had been left open for venting.

3. A further possibility is that bituminous paint may have been introduced in trace quantities into the cold and cool rooms from the flat on the soles of shoes of victualling staff.

4. Fresh and frozen foodstuffs, particularly dairy produce and fats, are susceptible to taint by absorption of external odours.

5. It is essential that fresh and frozen food should be given maximum protection from contamination by obnoxious fumes such as those associated with paints and other protective solutions. Where such foodstuffs cannot be completely isolated from the source of the fumes, adequate ventilation is of primary importance.

6. Attention is drawn to the necessity to maintain temperatures in cold and cool rooms within the limits required by Supply Officers. In this regard optimum temperatures for storage are—

Fish, frozen	}	- 12° to - 10° F.
Vegetables, QF		
Bacon	}	15° to 18° F.
Butter		
Margarine		
Yeast Comp.		
Meat		
Offals		
Sausages	}	30° to 35° F.
Eggs in shell		
Yeast, dried	}	35° to 40° F.
Fruit, fresh		
Vegetables, fresh		
Potatoes	}	40° to 45° F.
Cheese		

The above quoted temperatures are the ideal conditions under which foodstuffs should be stored. However, due to the limitations of refrigeration machinery systems, particularly when operating in the tropics and the layout of refrigerated chambers, it is appreciated that the actual temperatures obtained in HMA ships controlled temperature storage areas may differ from the ideal. Significant variations from the foregoing requirements and instructions in ABR 93, Appendix 16, must be avoided and entry into controlled temperature storage areas restricted to safeguard food stored in these spaces.

7. Attention is also drawn to Navy Order 629 of 1966, regarding safeguards in the control of temperatures in ships' cold and cool rooms.

(D of V 912/52/251)

(Navy Order 629 of 1966)

UNCLASSIFIED

333—Stores—Reports of Stocktaking and Stocktaking Discrepancy Reports

Consequent on the revised supply organisation (*see* Navy Order 603 of 1966) and associated functional changes at Navy Office, the disposal of Forms AS 148 (Inside) and (Outside) covering stocktakes of all types of stores is to be as follows—

Originals To be forwarded to the Director of Supply Administration and Planning, Navy Office, Melbourne. A duplicated form of letter will be used notifying that reports have been approved.

Duplicates To be filed as supporting vouchers to the provisional adjustment of accounts which should be made immediately it is established that the discrepancies cannot be cleared up in the ship or establishment.

2. Relevant Publications will be amended.

(DSAP 400/51/235)

(*Navy Order 603 of 1966*)

ANO's 334-340/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
31st July, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

334—Motor Transport—Accessories, Fixtures and Spare Gear

Henceforward full details of accessories, fixtures and tools in respect of each vehicle are to be inserted in Page 8 of the relevant vehicle Log Book (Form NMT 12, Revised 1964). The rendering of separate copies of Fixture Lists to Navy Office is to be discontinued.

2. Accessories, fixtures and spare gear are to be mustered at the same time as the vehicles are mustered during the periodical stocktake of the relevant Permanent Loan List, Articles in Use Account or Plant Account.

3. Annual Return Serial No. A42 of ABR 1980 (Periodical and Occasional Returns to be rendered by Ships and Establishments)—Muster of items shown in fixture and spare gear lists (for motor vehicles)—is no longer required.

4. ABR 1980, ABR 4 and ABR 5013 (Motor Transport Instructions) will be amended in due course.

(DSAP 459/80/31)

UNCLASSIFIED

335—RI—Quarterly List of Navy Orders Affecting

With reference to Page vi of RI, the following list shows those navy orders in force on 30th June, 1967, which amend or amplify RI (as corrected up to Amendment No. 13)—

<i>RI Article</i>	<i>Navy Order</i>	<i>RI Article</i>	<i>Navy Order</i>
Chapter 1 Section IV ..	272/1965	1624 ..	616/1966
0347 ..	691/1965	1704 ..	393/1965
	171/1965	1862A ..	350/1965
	710/1965	1914 ..	690/1966
	711/1965	1957 ..	690/1965
Chapter 5 ..	742/1965	1957A ..	242/1967
	117/1966	2074C ..	779/1965
	16/1967	2605 ..	245/1966
	95/1967	3142 ..	93/1967
0505 ..	658/1965	3144 ..	241/1967
0806 ..	653/1965	3223 ..	135/1965
0823 ..	7/1966	4487 ..	487/1966
0845 ..	605/1966	4622 ..	232/1967
0846 ..	610/1966	4909 ..	619/1965
1023 ..	571/1966	5209 ..	676/1965
1071 ..	378/1966	5211 ..	563/1965
	257/1967	5243 ..	509/1966
1072 ..	296/1965	5801 ..	122/1967
1122 ..	575/1965	6037 ..	224/1965
1232 ..	634/1965	6038 ..	109/1966
1452 ..	475/1965		
	538/1965		

RI Article	Navy Order	RI Article	Navy Order
6246	739/1965	APP 10A	174/1965
APP 4A	323/1966	APP 10B	621/1965
APP 4B	483/1965		
APP 5A	497/1966	APP 45A	136/1967
	498/1966		
	14/1967		

2. Navy Order 220 of 1967 is hereby cancelled.

(CEO (GS) 465/3/4)

(Navy Order 220 of 1967)

Section 2

PERSONNEL

UNCLASSIFIED

336—Results of Passing Out and Higher Education Test— HMAS LEEUWIN—June, 1967

The pass marks obtained by Junior Recruits at the Passing Out and Higher Educational Tests held in HMAS LEEUWIN are shown in the Appendix to this order.

2. The results of the above test have been adjusted to the HET standard and the sailors mentioned in the Appendix have been granted passes in the subjects indicated.

3. Commanding Officers are to ensure that the Certificates of Service of those concerned are noted in the appropriate section.

APPENDIX HMAS LEEUWIN Passing Out Results—June, 1967

Name	Rank	P/N	III Geography	IV Navigation	V Mathematics	VIII English Expression	Remarks
BECK, Philip J.	ORDNAM	R95499	—	—	—	55	|
BELL, Christopher R.	ORDEM	R95502	51	—	—	—	|
BROCKBANK, Anthony G.	ORDCO	R95511	52	58	65	—	|
CANNING, Robert L.	ORDQMG	R95515	—	51	82	—	|
CARTER, Peter J.	ORDEM	R95517	—	—	—	—	|
CLANCY, David	ORDSA	R95524	50	—	—	—	|
CLARK, Robert C.	ORDME	R95525	53	—	—	—	|
COOTE, Brian C.	ORDME	R95528	52	—	—	—	|
CORNELL, Michael R.	ORDCO	R95529	—	—	62	—	|
ENGLISH, Ken E.	ORDSA	R95543	51	—	—	—	|
FADDEN, Richard J.	ORDSA	R95545	—	—	50	—	|
GOODFELLOW, Robert J.	ORDCO	R95556	—	56	—	—	|
GUNN, James E.	ORDEMA	R95562	52	61	—	—	|
HAMILTON, Ian J.	ORDNA	R95563	58	—	—	70	|
HUTCHINGS, Errol J.	ORDEM	R95573	56	—	—	—	|
JACOBSON, Ronald B.	ORDEM	R95576	—	55	—	—	|
JOHNS, Keith S.	ORDSR	R95579	—	69	79	—	|
LANGE, Douglas I.	ORDEMA	R95589	50	—	—	50	|
LISTER, Russell J.	ORDME	R95597	—	—	—	50	|
NORDBERG, Greg L.	ORDCK	R95626	—	—	—	60	|

Name	Rank	P/N	III Geography	IV Navigation	V Mathematics	VIII English Expression	Remarks
ORMOND-ALLEN, Simon R.	ORDSA	R95630		52	57	54	
PLOSZCZYNIEC, Joseph P.	ORDEM	R95635		57			
SAUNDERS, Robert F.	ORDEM	R95645		57			
SKEY, Garry W.	ORDME	R95653		51			
SKINNER, Ross T.	ORDFC	R95654		60			
SMITH, William S.	ORDCO	R95657		54			
SPRY, Ramon J.	ORDEM	R95659		54			
TAYLOR, Colin	ORDEM	R95667		62			
THEOBALD, Alan R.	ORDEM	R95669					
THOMPSON, Lindsay G.	ORDCO	R95671					
THUROCZY, Daniel J.	ORDFC	R95672		58			
VALIER-BERTHER, Bruce I.	ORDSA	R95678					
WATSON, David R.	ORDCO	R95686					
WYNNIE, William F. R.	ORDRP	R95697		51			

(HPB 325/53/17)

QSD

UNCLASSIFIED

337—Safety Precautions—Insecticides and Chemicals Used in Pest Control

In a recent incident in one of HMA ships a sailor had to be discharged to hospital after drinking a beverage poured from a food utensil which had been used to mix an insecticide.

2. The detailed safety precautions to be observed in the handling of insecticides and chemicals used in pest control are contained in the "Report to the Medical Services Committee, Department of Defence, by the Sub-Committee on Insecticides". This report has been distributed in accordance with Navy Order 672 of 1965. Personnel required to mix or use chemicals and insecticides are to be made thoroughly conversant with these instructions.

3. All personnel should be familiar with the following basic safety precautions—

- (a) *General*—Most chemicals used in pest control are poisonous in some degree to man. Poisoning may occur by swallowing or inhaling these substances, or in some cases through contact with the skin.
- (b) *Storage*—Pest control materials should always be kept in their original labelled containers preferably stored under lock and key and be available only to persons trained in their use. They must be stored apart from foodstuffs and food containers.
- (c) *Usage*—Sprays with kerosene or other petroleum derivate base are highly inflammable and must not be used in rooms where fires or stoves are burning. Powders, liquids and sprays containing insecticides must not be used where they can contaminate food or utensils. If accidental contamination does occur, contaminated food must be destroyed and contaminated utensils thoroughly cleansed with steam or boiling water before use.
- (d) *Protective Clothing and Equipment*—
 - (i) A mask covering the nose and mouth should be worn during dry mixing of chemicals.
 - (ii) Protective clothing, goggles and oil resistant gloves will be worn when handling of poisons in kerosene or other organic solvents is necessary. After completion of the operation the hands should be thoroughly washed. Smoking is forbidden when handling poisons.
 - (iii) Respirators, protective clothing and gloves will be worn when using powders, sprays and mists, when inhalation or skin contamination may occur. A shower of at least 5 minutes duration should be taken on completion of such work.

4. This order will be reprinted for posting on notice boards.

(MDG 327/53/151)

(Navy Order 672 of 1965)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

338—Alteration and Addition and Alteration Item—
HMAS MORESBY

The following Alteration and Addition Item is approved to be carried out in HMAS MORESBY—

Class List Item No. 26 (Ex. TDL "NHW")

- (a) *Item:* ... To remove lifting rail and associated equipment fitted in the helicopter hangar.
- (b) *References:* (i) FOCAF Memorandum AF 1228/37/6 of 29th March, 1966 (NOTAL).
(ii) Navy Office Memorandum 1228/52/179 dated 5th July, 1966 (NOTAL).

(CNTS 1228/52/179)

UNCLASSIFIED

339—Ammunition—Pyrotechnics—Flare Aircraft Reconnaissance
4.5-in., No. 2, Mark 1—Extension of Life

(DCI (RN) 323/1967)

- (a) *Item* 365106" Flare A/C Reconnaissance 4.5-in., No. 2, Mark 1.
- (b) *Life extension* The age limit of 4.5-in. Flares for issue to HMA ships is extended from 10 to 11 years.
- (c) *Reason for extension* Shortage of stock due to production delays.

2. The two apostrophies added to the store reference number denote that two extra digits will be added to indicate the year of filling. Service users should demand and account for the stores under the first six digits only.

(DAS 727/56/143)

UNCLASSIFIED

340—Stores General (Group Class 5905)—Resistors—Obsolescent
Federal Stock Numbers

The USA has advised that the undermentioned Federal Stock Numbers for Non-standard Items are replaced by Standard Items.

2. Accordingly, the Federal Stock Numbers have been declared obsolescent superseded by the standard item, as follows—

OBSOLESCENT ITEM		ITEM NAME	SUPERSEDING ITEM	
Group Class	Catalogue No.		Group Class	Catalogue No.
5905	00-702-3361	Resistor, Fixed, Film	5905	00-892-6475
5905	00-577-1869	Resistor, Fixed, Film	5905	00-883-9198
5905	00-539-3982	Resistor, Fixed, Film	5905	00-814-3185

3. The obsolescent symbol "O" is to be inserted against all records of the item.

4. Ships and establishments are to continue to demand the old Federal Stock Number until advice is received that stocks are exhausted.

(DSAP 519/66/296)

The first part of the document
 discusses the general principles
 of the proposed system.
 It is intended to provide a
 clear and concise summary
 of the main points.
 The second part of the document
 contains a detailed description
 of the various components
 and their functions.
 This section is intended to
 provide a comprehensive
 overview of the system's
 architecture and design.
 The final part of the document
 discusses the implementation
 and testing procedures.
 It includes a list of the
 resources used and a
 bibliography of the relevant
 literature.



1

1



ANO 341/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
31st July, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

J. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

341—Lifting Appliances on HMA Ships—Tests, Maintenance and Periodical Inspections

This order consolidates the important instructions which are to be complied with when carrying out the tests, maintenance and periodical inspections of lifting appliances and associated equipment on HMA ships and includes notes for general guidance and information. It should be noted that instructions regarding tests to be applied to commercial type fixed deck cranes which are fitted on various HMA ships are to conform with the requirements of Paragraph 122 hereunder. Additional copies of this order can be obtained on application to Navy Office.

Periods for Tests

2. Unless otherwise stated in subsequent paragraphs, all lifting appliances including derricks, davits, cranes, winches, overhead runways, turntables, chains, blocks, Thomas grabs, etc., are to be tested by Dockyard Officers at each refit subject to the period between tests not exceeding two and a quarter years.

3. When lifting appliances due for test have not been used since the last test, a statement to this effect should accompany the Commanding Officer's request for test, and Dockyard Officers should exercise their discretion as to whether re-test is then considered necessary. This relaxation does not apply to lifting appliances for handling torpedoes, warheads, depth charges, mines, ammunition, gun armament and ahead throwing weapon projectiles.

4. The specified interval between tests given in these instructions, viz., the interval between ship refit periods, will be on an average about twelve months for ships in commission.

Method of Initiating Tests

5. Requests for tests to be carried out by dockyards are to be initiated by the ship's officers on a main defect list.

Nature of Tests

6. For ships under construction, and conversion, the specified tests of all lifting appliances and associated equipment are invariably to be indicated on the relevant drawings. These tests are to be applied in the first instance, at each subsequent occasion of testing and also after any repairs or alterations affecting the strength of any part of the lifting or guying systems have been carried out, unless further instructions involving modifications to the test loads have been issued. If any uncertainty exists as to the tests to be applied, the matter should be referred to Navy Office.

7. The rig of the system, when being tested, is to be in accordance with the approved arrangements, as any variation from these arrangements may result in dangerous stresses occurring in some of the component parts of the system. No alteration to the rig of any lifting system is to be made without prior Navy Office approval. Each lifting and handling system is to be tested as a complete unit.

8. The test is to be carried out on board by Dockyard Officers with the system rigged in the authorised manner by the ship's staff to ensure that all gear and fittings in association therewith, whether portable or part of the ship's structure, are fully tried. The ship's officers should arrange to be in attendance during these tests.

9. Where the purchase of any system is of cordage the static load of twice the working load is not to be suspended by the purchase, but is to hang by a strop on the head of the derrick or davit, etc. This is to avoid overstretching and injuring the cordage.

10. Any equipment including spare gear not subjected to test during the tests of the various systems, e.g., geared blocks, strops, spare purchases, etc., is to be tested ashore by the Dockyard Officers.

11. The term "safe working load" used in connection with these tests is the maximum weight which the system as rigged is approved to hoist and it should be carefully noted that this figure will not in general be the same as the safe lifting load which may be stamped on some of the component parts, leading blocks, etc., and will almost invariably be less than the lifting load marked on the individual parts of the equipment.

12. The lifting appliance, other than commercial type deck cranes (*refer* Paragraph 122), should first be surveyed after which the undermentioned tests, in general, are to be carried out in the following order—

- (a) The system is to be loaded at rest with a static load equal to twice the working load.
- (b) With the system fully rigged the working load is to be raised and lowered and traversed, where applicable, so as to test all parts of the system; this load is to be moved to the fullest extent possible throughout its complete designed range.
- (c) A running load of one and a half times the working load, moved in the same manner as the working load.
- (d) In addition to the working load test at (b) above the efficiency of all associated electrical equipment is to be checked for all specified duties and measurements of volts, amps and speeds for each control position are to be taken and recorded. These should approximate to the figures obtained at the initial "on board trials". If these are not available the data shown on the motor rating plates and on "as made" drawings should be used as guidance. Where appreciable differences are found these should be investigated and rectified at the earliest opportunity. Where the initial test results are not available and the alternative data is found inadequate to satisfy Dockyard Officers that the tests are satisfactory, application for the initial test figures should be made to the Principal Electrical Engineer, Navy Office.

13. If, in a powered work system, the power unit is unable to lift the running test load throughout the full range, the maximum load that can be lifted is to be applied and reported to Navy Office.

14. In applying a static test load to a system with the gear as rigged, in which an electrically driven winch fitted with a slipping clutch is the lifting unit, it should be first confirmed that the slipping clutch is designed to hold twice the working load.

15. After completion of each of the tests the whole gear is to be carefully examined visually for flaws and defects. Any suspected flaws or defects should be investigated by means of radiography, ultrasonics, magnetic crack detector, or in the case of radial davits of forged steel drawn from a solid ingot, by fire-proofing. Where repairs are carried out the whole of the gear is to be re-tested. The results of all tests and examinations are to be recorded and a copy is to be forwarded to Navy Office and a copy supplied to the Captain for future reference.

16. Any defects that develop during these tests which indicate some form of weakness in design, are to be reported to Navy Office.

17. If, whilst a ship is on service, any part affecting the strength of the lifting and handling equipment becomes defective and is repaired or renewed, a test, which would normally be carried out at a dockyard, is to be applied by the ship's staff using loads as near the standard loads as can be arranged, before the appliance is passed into service. The result of the latter test is to be recorded and a standard test by Dockyard Officers is to be carried out at the first opportunity.

18. If there is any reason to suspect that any lifting appliance has been unduly strained, the Commanding Officer should make a request for a re-test to be carried out at the first opportunity without waiting for the usual test period. All parts of a lifting system, including all permanent fittings, are to be carefully examined after lifting maximum loads.

Test Tally Plates

19. Unless test particulars are stamped on individual items of equipment, test tally plates showing the following data are to be fixed in a conspicuous position whenever a test is applied—

- Tested (place and date).
- Static load (where applicable).
- Safe working load.
- Initials of persons responsible for test.

20. Where the system is tested with the gear rigged, the tally plate is to be marked as follows—

- System tested as per approved rig.
- Tested (place and date).
- Static test load (where applicable).
- Running test load.
- Safe working load.
- Initials of persons responsible for test.

21. Care is to be taken that any securing holes for the attachment of test tally plates or stamp and centre punch markings are positioned so that the strength of the fitting is not impaired.

Miscellaneous Appliances

22. For ships under construction, the tests of all lifting appliances and associated equipment are to conform to the requirements of the appropriate specifications. For certain appliances, e.g., cranes, the initial tests are more comprehensive than those required to be carried out subsequently, whilst for

other, shop trials at maker's works are carried out which are not repeated after the appliances have been fitted on board. When carrying out subsequent tests on the particular appliances referred to below, the following is to be observed in amplification of the instructions contained in Paragraphs 2 to 4.

Power and Hand-operated Cranes (Excluding Commercial Deck Type Cranes)

23. To be tested as follows—

- (a) The working load is to be raised and lowered at the maximum specified radius, by means of the hoisting motion, raised and lowered by means of the topping motion of cranes so provided and slewed each way with the ship not heeled.
- (b) At the maximum specified radius a load of 50 per cent. greater than the working load is to be raised, *held, topped *(when applicable) and slewed each way with the ship not heeled, and lowered slowly so as to test all parts of the cranes.
*Note—Except with hydraulic cranes, where the overload is to be placed on the hook, not raised or topped, and the remaining tests carried out.
- (c) No greater test load than that described in (b) should be applied to deck cranes.
- (d) Electrically-operated cranes should be tested in all their movements when carrying the maximum working load. The speeds of operation and motor currents obtained in this test should approximate to those obtained when the cranes were installed. When the information is not held on board, it should be obtained from the Principal Electrical Engineer, Navy Office, Canberra.

Mobile Cranes

24. To be tested as follows—

- (a) The safe working load is to be raised and lowered at the specified outreach and normal working speed.
- (b) A running test load of 25 per cent in excess of the safe working load, in the case of 5-ton and 5.35-ton cranes, and 50 per cent in excess of the safe working load in the case of 20,000-lb. cranes, is to be raised, held and lowered at the specified outreach. Operation at a slow speed is acceptable for this test. The chassis should be stationary.
- (c) If ashore, the crane is to be on a level surface when handling the test loads; if on board ship, the crane is to be on an armoured part of the flight deck or over the hangar bulkhead. The motions are to be performed carefully to thoroughly test the equipment, crane structure and operating gear.
- (d) No greater test load than that described in (b) should be applied.
- (e) The crane should be tested in all its movements when carrying out the safe working load test. The hoisting speeds should be as follows—

(i) 3½-ton crane	..	..	..	35-ft. per min.
(ii) 5-ton crane	..	..	..	23-ft. per min.
(iii) 5.35-ton crane	..	..	..	23-ft. per min.
(iv) 20,000-lb. crane	..	..	..	15-ft. per min.

The existing instructions as to the areas of flight decks over which the crane can be used will apply during movement of the chassis.

Fork Lift Trucks

25. To be tested as follows—

- (a) The safe working load is to be raised to the appropriate maximum height on the forks at normal working speed.
- (b) A running test load of 25 per cent in excess of the safe working load is to be raised, held and lowered at a slow speed.

Note—When carrying out this test, the relief valve of the hydraulic circuit must be temporarily adjusted to take this load. The chassis should be stationary. After running tests, the hydraulic relief valve is to be reset and tested to operate at a working load of 10 per cent in excess of the determined safe working load.

- (c) No greater test load than that described in (b) should be applied.
- (d) If ashore, the fork lift truck is to be on a level surface with the mast vertical when handling the test loads; if on board, the truck is to be on an armoured part of the flight deck or over the hangar bulkhead. The motions are to be performed carefully to thoroughly test the equipment truck structure and operating gear.
- (e) The fork lift truck should be tested in all its movements when carrying the safe working load. The existing instructions as to the areas of flight deck over which the truck can be used will apply during movement of the chassis.
- (f) Pallet trucks are to be similarly tested.

Quick Release Couplings

26. The periodic testing of these couplings is carried out by Dockyard Officers who are responsible for their withdrawal from service at intervals of approximately twelve months.

Lifts Fitted in Aircraft Carriers

27. All lifts in aircraft carriers are to be tested as follows—

- (a) *Quarterly by ship's staff*—the full working load is to be raised and lowered.
- (b) *At each ship refit period by dockyard*—subject to the period between tests not exceeding two and a quarter years except all types of bomb and rocket lifts which are to be tested annually by dockyard. Tests embodying the operation at slow speed of loads 50 per cent greater than the full working loads are to be applied so as to test all parts of the lift.
- (c) *By dockyard*—on all occasions after adjusting of brakes or other major work and before the lift is considered available for use.
- (d) *In lifts with roller chains*—the chains are to be visually inspected every three months by the ship's staff, and attention is drawn to the following—
 - (i) Though the operating speed of the chain is comparatively slow, it is essential that the bearing surfaces be adequately lubricated.
 - (ii) The inside plates of the chain should be examined to see whether there are indications of rubbing against the wheel teeth, which would indicate mal-alignment.

Aircraft Lifts

28. The periodic tests by dockyard are to be carried out as follows for ships named below—

- (a) *HMAS SYDNEY* (Working load 15,000-lb.) Test load 22,500-lb. to be placed on middle line on an area 5½-ft. square, 8-ft. forward or aft of the transverse centreline. Disconnect electrical connections No. 18 and No. 19 at control panel to obtain slow running. Operate lift in both directions through full travel at slow speed with motor generator set running. Remove test load and re-connect electrical connections No. 18 and No. 19 for normal running.
- (b) *HMAS MELBOURNE* (Working load 24,000-lb.) Test load 36,000-lb. to be placed on an agreed area on the middle line of platform at a fore and after position representing the centre of gravity of the aircraft. Operate the lift in both directions at slow speed by means of slow running switch.

Bomb and Other Lifts, and Associated Equipment

29. The periodic test by dockyard are to be carried out as follows for ships named below—

- (a) *HMAS MELBOURNE*
 - (i) *Bomb Lift* (Working load 2,600-lb.) Test load 3,900-lb. to be placed evenly over floor of cage. Lift to be wound slowly downwards by emergency handle. When down, remove 1,300-lb. and operate lift electrically.
 - (ii) *Rocket Lift* (Working load 2,600-lb.) Test load 3,900-lb. to be placed evenly over floor of cage. Lift to be lowered at slow speed by means of slow running switch, 500-lb. to be removed and lift raised.
 - (iii) *Overside Rocket Lift* (Working load 820-lb.) Test load 1,230-lb. to be placed evenly over floor of lift. Operate lift in both directions throughout travel.
- (b) *HMAS SYDNEY*
 - Bomb Lift* (Working load 2,600-lb.) Test load 3,900-lb. to be placed evenly over floor of cage. Lift to be wound slowly downwards by emergency handle. When down, remove 1,300-lb. and operate electrically.

Bomb Room Overhead Gear

30. Remove all bomb grippers from overhead trussers and attach a suitable hook or eye for attaching test load.

Flight Deck Gantries

31. (a) *Left Hand Gantry Arms*

- (i) Remove bomb gripper and attach a suitable hook or eye to the pul-lift for attaching test load.
- (ii) Test load of 6,000-lb. is to be raised and lowered by pul-lift and traversed in both directions at slow speed.

(b) Right Hand Gantry Arms

- (i) Remove bomb gripper and attach a suitable hook or eye to the pul-lift for attaching test load.
- (ii) Test load of 750-lb. is to be raised and lowered by pul-lift and traversed in both directions at slow speed.

(c) Pul-Lift on Right Hand Gantry and Flight Deck

This should be removed and attached to a suitable structure and a test load of 6,000-lb. raised and lowered slowly.

(d) Bomb Grippers

All bomb grippers should be static-load-tested by attaching to a suitable structure and loaded to 4,000-lb.

32. In some instances an alteration in the working load has been approved and in these cases the test load to be applied is the specified test load and not a load 50 per cent greater than the new working load.

33. Attention is drawn to the necessity of securing lifts by tackle or other means independent of the safety gear whenever the wires are being repaired or overhauled and before men are sent to work in the lifts or trunks. When the wires of lifts are being overhauled or repaired the safety gear is never to be relied upon as the only means of securing the lifts in position.

Aircraft Lift Platforms—Brakes

34. The brakes on the aircraft lifts should be capable of sustaining static loads considerably in excess of the working load of the lift, provided the brakes are correctly adjusted and maintained in good working order. In order to ensure that the brakes are satisfactory, they are to be tested by Dockyard Officers at each ship refit period by applying a static load equal to twice the working load of the lift. This test load should be well distributed over the platform.

35. The attention of Commanding Officers is drawn to the need for care in avoiding the inadvertent overloading of the lift platform when it is at flight deck level on such occasions as storing ship or ranging aircraft. In general, the static load placed on lifts should not exceed one and a half times the working load, but it is an operational requirement to park two aircraft on the lift platform and if the weight of each approaches the working load of the lift, the hand operated brakes should also be applied. In no cases should the static load be allowed to exceed twice the working load.

Method to be Adopted for the Adjustment of Solenoid Operated Brakes of Electrically Operated Aircraft Lifts**HMAS MELBOURNE and SYDNEY**

36. It is of utmost importance that solenoid operated brakes should at all times be efficiently maintained and frequently checked. The correct method to be adopted for their adjustment is as set out below—

- (a) Before adjusting these brakes the lift platform should be at flight deck level and without load.
- (b) Linings should be non-greasy, rivets well countersunk and all hinge pins free and well lubricated.
- (c) The rubber stop washer between the stop disc and the magnet cover should cushion slightly before the magnet plunger and the brass washer make contact with the lower half of the magnet casing. If necessary the rubber stop washer should be adjusted in thickness.

- (d) Set screws on brake arms should be slackened back and then it should be carefully checked that magnet plunger is fully home, and not held by stop disc on top of magnet. The magnet plunger should have free movement and the axial grooves should be checked to ensure they are not blocked with dirt.
- (e) The set screws on brake arms should be screwed up until the magnet plunger lifts about 0.1-in. to 0.125-in.
- (f) Tighten up brake springs equally until brake just operates, then slack back $\frac{1}{8}$ -in. The designed working length of spring with brake applied is $4\frac{1}{8}$ -in. but spring could be operated at $4\frac{1}{4}$ -in. quite safely.

A further refinement following the above is to screw up set screws, with magnet energised, just sufficiently to eliminate sounds of rubbing from the shoes with the lift running.

37. Air Armament Lifting and Transporting Equipment

(a) *Hangar Gentries*—A maximum working load of 3-tons is to be raised, lowered, traversed and travelled to ascertain that the designed operating speeds are obtained. A load of 50 per cent, in excess of the 3-tons maximum working load is to be raised, held, traversed, travelled and lowered so as to thoroughly test all working parts including the brake.

(b) *Bomb Skids*, Pattern 0248/5574 and Mark 2 (Working load 2,000-lb.)—

- (i) The skid is to be carefully surveyed for wear and defects including examination of ball and needle roller bearings on wheels. It is then to be loaded with a load equal to its working load and moved about as would be necessary for its maximum operation. The brake is to be applied quickly at least three times.
- (ii) The skid is to be loaded with a load equal to one and a half times its working load and moved about and the brake applied as for the working load. Then it is to be thoroughly examined for signs of straining or fracture.

(c) *Bomb Stretcher*, Ref. 4G/3034 (Working load 500-lb.)—

- (i) To be thoroughly surveyed for cracks or warp and the straps examined for signs of wear or fraying.
- (ii) With the end handles supported firmly, so that the feet of the stretcher are a few inches above the deck, apply a static load equal to twice the working load. Then it is to be thoroughly surveyed for cracks and warp.

(d) *Bomb Lifting Poles*, Ref. 4G/3206 (Working load 500-lb.)—To be surveyed and then, with pole supported firmly at each end, a static load equal to twice the working load is to be suspended from the swivel hook. Re-survey for bending or cracking in bar, lifting hook and U support.

(e) *Bomb Carrier*, Pattern 0248/5575 (Working load 2,000-lb.)—Treat similarly to Bomb Skids, Pattern 0248/5574.

- (f) *Trolley, Pattern 0411/46 (Working load 1,250-lb.)*—This trolley is used for moving torpedo warheads, and is similar to a railway porter's truck, having cast wheels, solid rubber tyres and a 4-in. thick wooden platform. It is to be tested in the same way as Bomb Skids, Pattern 0248/5574.
- (g) *Torpedo Bomb Trolley, Mark 1 (Working load 2,000-lb.)*—
- (i) A test load of 2,500-lb. should be raised through the range of lift in three minutes with continuous operation and remain in an elevated position for half an hour without more than 4-in. settling during this time. The minimum and maximum height for the range of lift is as follows—
Ground to underside of weapon 14 $\frac{1}{2}$ -in. min.
Ground to underside of weapon 80-in. max.
 - (ii) The relief valve should be set to lift 336-lb. on the quick lift large diameter pistons, and to change over to the small diameter high pressure pistons at loads 20 per cent in excess of this.
 - (iii) The moving table should operate satisfactorily over the full range of travel in both fore and aft, and port and starboard directions, the total travel to be 8-in. and 5-in. respectively, and be able to tilt 3° downwards towards the towing handle and 17° downwards away from the towing handle. Rotation in azimuth 360°, i.e., when lifted clear of the tyres.
 - (iv) The table, when set parallel to the ground, should maintain parallelism throughout its lift to within $\pm 1^\circ$.
 - (v) The steering mechanism shall operate without fouling, and the trolley shall be capable of turning in a circle equal to 9-ft. 3-in. radius.
 - (vi) The braking system should hold the trolley on a slope of 1 in 4.
 - (vii) The trolley is to be tested for lifting with maximum working load. The load then to remain in an elevated position, and there is to be no more than $\frac{1}{8}$ -in. creep when measured at the cross head, the ends of which protrude through the frame.
 - (viii) Functioning of the trolley, as to movement of the trolley as a whole, braking when the handles are released, and movement of the head in all directions are to be quite free for maximum travel.
 - (ix) The trolley is to be subjected to the overload test in Sub-paragraph (i) (i.e., 25 per cent in excess of the maximum working load) annually.
- (h) *Air Armament Transporter and Associated Cradles (Working load 1,000-lb.)*—The test should be as for Bomb Skids, Pattern 0248/5574 where applicable.
- (i) *Type "D" and Type "E" Bomb Slings (Working load—Type "D" 500-lb., Type "E" 2,000-lb.)*—Slings to be thoroughly examined for wear and defects, followed by loading with a static load equal to twice the working load, and then a further examination for defects.

- (j) *Bomb Loading Hoist, Type "C", Ref. 4GC/3360 (Working load 1,200-lb.)*—Hoist cable and end fittings to be thoroughly examined for defects followed by loading with a static load equal to twice the working load, and then a further examination for defects.
- (k) *Bomb Trolley, Type "C", Mark 3, Ref. 4G/2463 (Working load 4,000-lb.)*—Treat similarly to Bomb Skids, Pattern 0248/5574. Test freedom of steering. Test that bombs stops move freely and lock securely in the related position.

A/S Projectile Hoists

38. A/S Projectile Hoists are to be tested as follows—

- (a) Quarterly by ship's staff, by raising a full working load.
- (b) Annually by dockyard. A load 50 per cent greater than full working load is to be held so as to test all parts of the lift or hoist.

Winches

39. The brakes of power-worked winches are to be tested with a 50 per cent overload which is to be held by the brakes without slipping, except in cases where the brakes are made to withstand a load in excess of 50 per cent of the working load of the winch, e.g., minesweeping winch. All winches including those used for handling torpedoes, warheads, mines, depth charges, ammunition and minesweeping, are to be tested at each ship refit but not exceeding a period of two and a quarter years.

40. Where these winches are tested in conjunction with the approved rig, a test tally plate with particulars as specified in Paragraph 20 above, is to be fixed in a conspicuous position and adjacent to the maker's description plate.

Triple Barrelled Minesweeping Winches in Ton Class Minesweepers

41. Provided that the winches have satisfactorily passed the specified acceptance tests at maker's works, the following routine tests carried out on board after each refit of the craft will be sufficient—

In Harbour

- (a) Carry out static tests, using the following loads to prove securings to deck and functioning of brakes—

Wires Fitted	Total Static Load	Composition of Test Load
2 $\frac{1}{2}$ -in. sweep wires 2-in. Kite wires	11 tons	4 tons on each sweep wire 3 tons on Kite wires
1 $\frac{1}{2}$ -in. sweep wires 2-in. Kite wires	7 tons	2 tons on each sweep wire 3 tons on Kite wires

- (b) Run winch on light load for one hour. Check power consumption is not excessive and that motor and bearings do not become hot.

At Sea

Stream and recover minesweeping equipment at maximum sweeping speeds of ship and winch as specified. Check power consumption is not excessive.

Derricks and Davits

42. Derricks and davits and stump masts, used for handling ammunition, are to be tested by the dockyard, annually, on application by ship's officers.

Boat Davits

43. Boats' davits are to be tested at each ship refit period, provided the period between refits does not exceed two and a quarter years. Each davit is to be subjected to the specified test loads which it should stand without permanent set or excessive temporary distortion; any deflections are to be carefully measured and recorded. In the case of davits to which a spreader is attached, the davits should be tested with the spreader rigged.

44. When a boat allocated to a ship exceeds in weight the working load to which the ship's derrick or boat davits are tested, the matter is to be reported through the Administrative Authority and instructions requested as to whether the derrick or davits are to be re-tested to an increased working load.

Nylon Rope Strops and Steel Wire Rope Pendants for Hoisting Boats in a Seaway

45. It has been decided to extend the strop and pendant method of hoisting boats in a seaway to boats and craft carried in davits and gantries of all ships, in accordance with the General Hull Specifications, Section E-14 (B), Appendix, March, 1960. In ships so fitted the nylon strops are to be landed at least once a year for re-test to proof loads as shown in the General Hull Specification. The steel wire rope pendants and associated fittings are to be landed for re-test with the boat's slings (see Paragraph 46 below).

Boat Slings

46. The first test on completion of manufacture and all subsequent re-tests are to correspond to twice the working load of the sling. This working load is the pull in each leg of sling, including disengaging gear if fitted, when the boat is suspended at davits, or by similar two point lifts; or the pull in each leg of a bridle sling when lifting by crane, derrick or similar arrangement for one point suspension of boat. The weight of the boat is always to include that of the full equipment and fuel and that of men required to be aboard for lifting and lowering. For seaboats the weight of a full crew should be included.

47. Except where spreader components make it practicable, bridles and slings are not to be tested as a whole; separate tests are to be made with each leg of bridle, span sling and steadying leads, together with all associated joining rings and eyes of disengaging gears or moused hooks.

48. Boat's slings, and plug plates with holding down bolts, complete with all associated disengaging gears, etc., of all ships should be landed for re-test at each ship refit period, and at all other times immediately after repairs have been effected by the ship's artificers. Where rigid fixtures such as tubes, angles, etc., are to be used in place of slings, they are likewise to be removed for survey and re-test together with their fastening pins and holding down bolts. The test load for such items are to be as shown on approved drawings. Each lifting system is also to be tested as a complete unit (see Paragraph 7). In no case should the period between tests exceed two and a quarter years. Form AD 786 is to be rendered in triplicate on each occasion, in compliance with the instructions on this form. Ship's officers should carefully scrutinise the certified tests before inserting the form in the Ship's Book in order that attention may be drawn to possible errors before the ship leaves the port.

49. Inspecting Officers and Refitting Authorities are to ensure that during manufacture and in subsequent periodic surveys and tests, boats' disengaging gears are fully operational before certifying acceptance for service. Such acceptance should include a careful check, after galvanising, that the safety pin engages completely in the holes through both check plates, and the removal of surplus zinc deposits on the upper pawl of the releasing lever, which would prevent the safety pin engaging completely in its hole owing to fouling by the back edge of the releasing lever. Ship's officers should check carefully that the disengaging gear is free running and functioning correctly before putting into operational use.

50. Where no information is available regarding tests, either from approved drawings or reference to ship's copy of the previous Form AD 786, the test load should be calculated from a diagram of forces—

- (a) For two-legged bridle, the joining ring is to be tested either to twice the lifting weight of boat or twice the working load in the two legs together whichever is the greater.
- (b) For three-legged bridle, where the distribution of forces is indeterminate, it should be assumed that the test load for the middle leg is $\frac{4}{3}$ lifting weight of the boat and that of each side leg equal to the lifting weight; the test load for the joining ring of the three legs is to be twice the lifting weight of the boat.
- (c) Where boats are suspended from two lifting appliances, as from davits, the working load is to be calculated on the basis of one half the lifting weight of the boat on each sling; the ring joining the two legs of the sling is to be tested either to the lifting weight of the boat or twice the working load in the legs, whichever is the greater.

51. The test load and date of current test are to be stamped on the rings, enlarged end links of bridle or sling legs, and on the frames of disengaging gear or moused hooks.

52. In ships taken over for Naval Service from mercantile or private sources or otherwise incorporated in HMA Service, special care is to be taken to ensure that the boat slings conform to usual service requirements; sling plate and other relevant fixed fittings in the boat, including fastenings are to be surveyed, to see that they are efficient and that serviceable clench plates are included with the whole of the fastening arrangements. Results of survey to be shown on Form AD 786.

53. The testing of the boat slings should be included in the periodical pink defect list.

54. Special care should be taken by the ship's officers when preparing to lift a boat which has been swamped; the boat should only be gradually raised so that the water can be drained, or otherwise removed, until the total weight to be lifted is not appreciably above the authorised lifting weight of the boat. The lifting weights of boats are given in the Appendix to this order and this information until further notice is the only authority for such weights.

Acoustic Sweeps, Inhaul Wires

55. The inhaul wire when rigged on the derrick is to be tested as follows—

<i>AD Mark 3</i>	Static test load	..	..	..	..	5,600-lb.
	Working load	..	..	..	..	2,800-lb.
	Running test load	..	..	..	..	4,200-lb.
<i>AH Mark 4</i>	Static test load	..	..	..	..	4,000-lb.
	Working load	..	..	..	..	2,000-lb.
	Running test load	..	..	..	..	3,000-lb.

Unifoxer Equipment

56. Unifoxer davits, rigged as approved are to be tested as follows—

Static test load	..	..	..	..	..	10-cwt.
Working load	..	..	..	..	..	5-cwt.
Running test load	..	..	..	..	..	7½-cwt.

Sonar Type 182 Hand Operated Davit

57. In addition to the tests shown in Paragraph 12, the following should apply—

Slew the davit through 90° (from outboard to a fore and aft position) against an adverse heel of 10° and an opposing horizontal side load of 1,000-lb. at davit head, at right angles to middle line of ship.

Note—All the tests should be carried out with the jib secured in its raised position but the davit can be removed and "heeling" test carried out as a shop test provided the heeling conditions can be simulated.

Ribbon Straps for Torpedo Equipment

58. Ribbon straps, without leather servings, are to be surveyed and tested to the appropriate working load as follows—

- (a) Survey and load test immediately before issue.
- (b) Survey by ship's and depot ship's staff at six months intervals after receipt of test by dockyard.
- (c) Survey and load test at ship refit period by dockyard. The period between tests is not to exceed two and a quarter years.

Machinery Lifting Gear

59. Hull attachments, together with associated eyeplates, eyebolts, shackles, etc., for lifting machinery items, including propellers, are to be tested in place by Dockyard Officers to a static load of twice the working load at extended refits of destroyers and below and at alternative refits of cruisers and above.

60. Before propeller lifting arrangements are rigged for test or changing propellers, hull pads and fittings are to be examined as to their general condition. Eyebolts should be checked, if necessary from the drawing of the approved arrangement, to ensure that they have been specifically supplied for this use. Eyebolt sockets are then to be thoroughly cleaned. Care is to be taken that the faying surfaces on hull pad and eyeplate or eyebolt are free of excrescences which would otherwise prevent accurate faying. Eyebolts are to be tightened sufficiently such that the shoulder seats correctly and to prevent slackening back during lifting operations. If doubt exists after inspection that the fittings do not retain their full efficiency, they are to be tested in place by applying the specified static load

before use for lifting operations. A foul pull, at an angle to the plane in which the eyebolt lies, should be avoided. In the case of "River" Class Frigates, the propeller lifting arrangements are not entirely in accordance with modern practice. In view of the ages of these ships, it is not intended to change the fittings but these are not to be used. Instead, suitable strops over the quarter deck and preventers are to be rigged for lifting propellers when occasions arise.

61. Most classes of ship are not provided with fittings for lifting shafts. In cases where such fittings are provided, however, they are not to be used in future; instead shafts are to be handled in the normal manner using gantries and jacks as necessary.

Blocks, Geared

62. All geared blocks for whatever purpose they are provided should be inspected and tested during each ship refit to the appropriate test load shown on the label plate. The period between tests is not to exceed two and a quarter years (*see also* Paragraphs 64 to 70).

Blocks, Non-geared

63. Non-geared blocks which have not otherwise been tested as an integral part of a lifting system are to be inspected and tested at a dockyard to the appropriate proof load marked on the block at each ship refit period. The period between tests is not to exceed two and a quarter years (*see also* Paragraphs 64 to 70).

Blocks, Handling Ammunition

64. Blocks used for handling ammunition are to be tested by the dockyard annually.

Blocks, Repair of Load Chains

65. Consequent upon authorisation of the use of high tensile steel chain in lifting appliances, in accordance with BR 1943 SDM (N) 42/4, Lifting Gear for Shore Establishments, it is important that the greatest care should be exercised in the selection of this material when used in the repair of hand operated lifting blocks, particularly where such blocks are of proprietary type, i.e., not strictly to Admiralty pattern or specification.

66. When repair or replacement of the load chain of any block is necessary, none other than material of the same grade as previously fitted to that particular block is to be used.

67. Where identification is difficult, or doubt may exist for any other reason, Navy Office instructions are to be obtained before repairs are carried out.

68. This precaution is necessary to ensure that the lifting capacity of the appliance is not lowered below that for which it is rated due to the incorporation of inferior material during repairs, thereby involving a risk of failure in subsequent use.

69. Until dockyards are fully equipped with the facilities required for the repair and heat treatment of these higher tensile steel chains, work involving the lifting of new links can only be carried out by the chain makers. Appropriate action will therefore be necessary on the part of Repair Authorities at dockyards or bases concerned.

70. The foregoing instructions apply to load chains in particular. Electrically welded, mild steel chain to BS 590:1949 is the minimum standard acceptable for hand chains in these lifting appliances.

Steel Wire Rope

71. All steel wire rope associated with a lifting appliance which has been used and has not otherwise been tested as a part of such an appliance, is to be subjected to a dead load test of two-fifths the ultimate breaking load at intervals not exceeding two and a quarter years. The rope is to be unrove by ship's artificers and sent to a dockyard for re-test.

72. When tested, the dockyard is to prepare a certificate of test. One copy of the certificate is to be furnished to the Commanding Officer of the ship concerned and the other copy is to be recorded at the testing house for reference.

73. Also see QR and AI, Article 5534.

74. When determining the safe working load of steel wire rope for new lifting appliances, the following factors of safety are to be arranged for—

Lift wires	12 (minimum)
Running rigging ex-crane wire	8
Crane wires	6
Standing rigging, including boat bridles	6

Particulars of minimum breaking loads for all grades of steel wire ropes are shown in Specification DNC/S36 incorporated in Material Specification, Part 1C.

Cordage

75. Routine tests of cordage are to be as laid down in Naval Store Duties Instructions, Article 384, and particulars, shown on tallies, to be attached to each coil. In connection with the visual examination of rig of appliances before commencing and on completion of tests, the following should be noted—

- (a) No unauthorised departure is to be made from the approved rig, either in respect of size or quality of cordage, as determined by the rigging warrant or otherwise approved, when carrying out the tests. Slings made up for lifting parts of machinery, stores, etc., should be tested as above and slings marked with a tally giving particulars and dates of test.
- (b) Under normal peace-time supply conditions, untarred sisal and manila when new, are about equal in strength and rather stronger than tarred sisal. Untarred cordage deteriorates more rapidly than tarred, and loses this initial advantage of greater strength after about two months' exposure to sea weather conditions. Coir cordage is about one-fifth the strength of manila or one-fourth the strength of hemp, of same size.
- (c) Information for ship's personnel is given in Chapter V of Volume 2 of the Manual of Steamship, BR 67 (2/64), but to avoid error arising from the use of uncorrected earlier copies of this publication and also of lowered standards of quality due to war-time supply conditions, the figure for the lowest breaking load of hemp should be used for manila or sisal also.
- (d) The attention of yard officers and overseers responsible for tests is directed to Form AD 513.

- (e) When determining the safe working load of cordage and man-made fibres for new lifting appliances, the factors of safety to be arranged for are to be as for steel wire rope (see Paragraph 74). Particulars of minimum breaking loads for all grades of man-made fibres are shown in Specifications Naval Construction Manual 5/G2 and BSS 3758/64 (Polyester Filament Ropes, Hawser Laid).

Hooks

76. Where a hook is not tested as an integral part of a lifting system, it is to be tested ashore to the proof load stamped on the hook.

Eyeplates and Cleats

77. Prior to fitting in place, eyeplates and cleats are proof tested in accordance with Specification DGS 5033 incorporated in Material Specification, Part 1C.

78. Welded eyeplates and cleats are only to be used in positions of importance when they can be tested in place after welding, either by direct loading or in connection with the tests of the lifting systems in which they may be incorporated. Tests of eyeplates, etc., are to be shown on Form AD 3051. Where not associated with lifting systems for which periodic tests are specified, they are to be surveyed during ship refit period or at periods not exceeding two and a quarter years, and if then considered necessary, they should be removed and replaced by new fittings.

Chain Cable, etc.

79. Chain cable and chain cable gear and other associated fittings are to be periodically surveyed and tested in accordance with QR and AI Articles 5531-34 and BR 367, Anchors, Chains, Cables, etc.

Rigging, Ammunition

80. Wire ropes, whips, slings and jackstays used for handling ammunition are to be tested at the same time as the derricks and lifting appliances, i.e., annually by dockyard.

Aircraft Lifting Appliances

81. Aircraft slings, power plant and engine lifting beams and slings and all other lifting tackle used with aircraft or aircraft components, are to be tested as follows—

- (a) Air stations and establishments—At intervals not exceeding two and a quarter years.
- (b) HMA ships—At each ship refit or at intervals not exceeding two and a quarter years.

82. Although this gear is usually supplied as Air Stores under an Air Ministry reference number, as a change to Vote 8 II, it is nevertheless to be subject to the conditions laid down in this order. Attention is directed to the Air Ministry publication AP 2817A, Volume 1, Section 11, Chapter I Lifting Tackle—Servicing and Testing, which contains design data and appropriate test procedure for this type of equipment within the RAF.

83. The Air Engineer Officer of the ship, air group or station is to keep a register of lifting tackle on his charge, listing the following information—

- (a) The description of the appliance.
- (b) The safe working load.

- (c) The date when taken on charge.
- (d) The proof load.
- (e) Dates of tests carried out and in which dockyard.

He is responsible for inserting the necessary items in the periodical defect list for the testing of such appliances. Should he suspect that a lifting appliance has been over-strained at any time, he is responsible, for immediately withdrawing the item from service, and for making arrangements for a survey and proof test to be carried out by Dockyard Officers as soon as possible.

84. Normally, lifting tackle bearing an AM Ref. No. carries a brass tally stamped with test particulars, but this may not be the case with items of early manufacture whose test load must be established on the occasion of the next test and a tally affixed in accordance with Paragraphs 19-21.

85. HMA dockyards are periodically issued with a revised list of aircraft slings in current use in the FAA. These drawings give sufficient information of prescribed tests and any drawings that may be required in connection with such work can be obtained on application to Superintendent of Aircraft Maintenance and Repair.

86. The Air Engineer Officer is himself to decide whether or not a lifting appliance is in a serviceable condition, and should be guided by the instruction for survey and inspection contained in AP 2817A. In this inspection, he is not to remove sheave pins, shackles, splice servings or protective coverings unless facilities are readily available for replacement without detriment to the efficiency of the item in question.

87. The following brief extracts from Ministry of Aviation (Aircraft Division Servicing Research and Development) Specification 902/P for Lifting Tackle are for general guidance and information. The specification provides for the supply of lifting tackle for—

- (a) special designs for RAF and Naval aviation which are covered by official drawings;
- (b) designs to standard specifications;
- (c) proprietary designs,

and includes chain, wire and fibre rope slings, chain pulley blocks, rope sheaves, gantries and shear legs, portable mobile and travelling type cranes (except M/T vehicles), together with such accessories and component fittings as rings, hooks, shackles, swivels, grabs, etc.

88. All items of lifting tackle covered by this specification are designed with a "factor of safety" of not less than 6, except complete aircraft slings designed solely for Naval use which have a "factor of safety" of 4. In the case of multi-leg slings, for safe working load for each sling leg should be shown on the identification tally with the leg at 0°, 45°, 60° and 80° from the vertical position.

89. Each item of lifting tackle, except fibre rope or fibre rope slings, is proof-loaded at manufacture to a load equal to twice the safe working or normal load. Normal loadings are given in AP 970.

90. Proof-loading figures for separate pennants are not normally required, since the general practice is to proof-load the complete sling whilst the pennants are spread to the correct angles corresponding to their working position.

Replenishments-at-sea Reception High Points

91. High points fitted on HMA ships for use in replenishment-at-sea operations are to be surveyed during each ship refit period or at periods not exceeding two and a quarter years. The methods of testing high points are under review and finalised instructions will be promulgated in due course.

Lifting Gear to Armour and Other Heavy Hatches

92. The lifting gear should be examined quarterly, special attention being given to the condition of the shackle pins which would be removed if showing signs of wear. For tests of geared blocks see Paragraph 62.

Capstans

93. The following tests should be applied after each occasion that dockyard repair or refit work has been carried out on the capstan (excluding submarines, for which see BR 2101)—

(a) Forward Capstans—

- (i) Heave and veer the anchor and not less than 16 fathoms of hanging cable, at the designed speed.
- (ii) Slack cable speed to be checked, brake gear and slipping clutch to be tested.
- (iii) Where twin cable holders are fitted these are to be heaved and veered separately and/or concurrently as per working instructions.

(b) After Capstan (Cruisers and above)—

To heave and veer the designed working load.

(c) Other Capstans—

- (i) Heave and veer the designed working load.
- (ii) A running test load of one and a half times the working load at slow speed.

Lifting Appliances in Submarines

94. The test loads of all torpedo lifting appliances in submarines are to conform to the following—

"T" Conversion

Static—3½-tons.
Running—2-tons 12½-cwt.

OBERON Class

Forward Torpedo Compartment	Static—3-tons 12-cwt.
	Running—2-tons 14-cwt.
After Torpedo Compartment ..	Static—14-tons.
	Running—1-ton, 2-cwt.

Lifting Bands, as used on OBERON Class

Embarking Band	Static—3-tons 12-cwt.
Lightweight Band	Static—3-tons 12-cwt.

As the arrangements in "T" Conversion were designed originally for a static test of 3-tons and a running test of 24-tons, the following procedure is to be adopted—

- (a) Tests are to be applied by the dockyards at refits provided that the period between tests does not exceed two and a quarter years. A visual examination of all the gear is to be carried out by ship's staff or depot ship's staff at the intermediate dockings.
- (b) Should the power units be unable to lift the running test load throughout the full range, the maximum load that can be so lifted is to be applied and reported.
- (c) The static test load is to be applied at both the lower and upper limits of the purchase wire as rigged.
- (d) On each occasion of test and at suitable intervals between tests the hoisting wires are to be carefully examined over their whole length and are to be renewed on the first signs of stranding or other defect.

Other lifting appliances are to be tested at refits provided that the period between tests does not exceed two and a quarter years. As an exception the two and a quarter years maximum period between tests may be exceeded when the submarine is already in refit and the tests will be applied before the completion of that refit.

95. The hoisting wires of periscopes, radar masts, wireless masts and torpedo lifting gear, including the wires on the telemotor presses are generally to be renewed at each refit.

Ships in Reserve

96. For ships in reserve the period between tests should be as follows—

- (a) Lifting appliances and associated fitting—To be tested in accordance with the requirements laid down in other parts of this order at ships refit periods; this will generally mean that for ships at Naval ports the interval between tests will be three years and for ships at commercial ports the interval will be five years.

All lifting appliances and associated fittings are to be surveyed annually by ship's staff and any defects revealed brought to the notice of the Dockyard Officers at the next refitting period. Particular attention is to be paid to this survey, especially to ships at commercial ports.

- (b) Capstans, cable holders, winches and windlasses. See Paragraphs 114 to 119 regarding periodical inspections.

HMA Fleet Auxiliaries, etc.

97. For vessels built for RAN Service under the supervision of classification societies, the tests initially applied to lifting appliances do not always conform to RAN practice. In general, in vessels built under the supervision of classification societies, the initial tests applied to boat davits are in accordance with Board of Trade Regulations, whilst those for other lifting appliances conform to the Statutory Rules and Orders, 1934, No. 279, Docks Regulations, 1934, dated 5th March, 1934; in some instances, however, the tests of certain appliances conform to RAN practice.

98. The standard of tests specified by the Statutory Rules and Orders, 1934, No. 279, Docks Regulations, 1934, dated 5th March, 1934, are appreciably different from those adopted in the RAN Service and to illustrate this an extract from these regulations is appended—

"Every winch with the whole of the gear accessory thereto including derricks, goosenecks, eyeplates, eye-bolts or other attachments) shall be tested with a proof load which shall exceed the safe working load as follows—

Safe Working Load	Proof Load
Up to 20 tons	25 per cent in excess
20 to 50 tons	5 tons in excess
Over 50 tons	10 per cent in excess

The proof load shall be applied either by hoisting movable weights or by means of a spring or hydraulic balance or similar appliance, with the derrick at an angle to the horizontal which shall be stated in the certificate of the test. In the former case, after the movable weights have been hoisted, the derrick shall be swung as far as possible in both directions. In the latter case the proof load shall be applied with the derrick swung as far as practicable first in one direction and then in the other."

In view of the various practices adopted, it should be ensured that subsequent tests are the same as those initially applied unless amending instructions in regard to the test loads have been issued. If in doubt as to the tests to be applied on a subsequent occasion of testing, the matter should be referred to the Naval Board.

99. In future, for ships built for RAN Service, the derricks, davits (other than for lifeboats), etc., are to be capable of withstanding tests in accordance with RAN practice.

Mercantile Vessels Requisitioned for Naval Service

100. When a mercantile vessel is requisitioned for Naval Service, the regulations pertaining to periodical examination and tests of all lifting appliances and associated equipment, as laid down in QR and AI, Articles 5531-34 and also in this order, are to be strictly complied with. If possible the dates of last test of all wire ropes and lifting appliances are to be obtained from the ship's officers or the shipping company at the time the vessel is taken over. If tests are due and records are not available, tests are to be carried out during the conversion period. In order to conform to RAN practice the working loads of all lifting appliances, except those for handling boats, are to be down-graded as follows—

The maximum static test load applied is not to exceed the static test load for which the appliance has been tested previously under the Statutory Rules and Orders. Safe working loads for RAN purposes are to be assigned, equal to half the static test load applied. Plates clearly indicating the maximum safe working load for RAN purposes are to be affixed to all appliances after test. For vessels chartered for the carriage of Naval Armament stores, appliances not required for handling such stores are to be clearly marked "Not to be used for armament stores".

General Maintenance—Mechanical Equipment

101. Working parts of all mechanical appliances used in accordance with the lifting and handling equipment are to be kept free from dirt and appropriately lubricated. When maintenance instructions are issued by the maker for a particular appliance, they are to be strictly complied with.

Capstans, Cranes and Winches

102. The following instructions are to be observed regarding the lubricants to be used in capstans, cranes and winches—

(a) *Greases*—All bearings including motor bearings—

(i) Joint Service Designation grease XG 274, Pattern 0474/9439814 is to be used for all bearings. Where crane maker's instructions recommend other makes of grease and where those brands are now being used, the use of such makes is to continue pending the earliest favourable opportunity for thoroughly cleaning the lubricating systems and bearings and re-charging with XG 274.

(ii) Oil OC-300, Pattern 0475/9437238, is to be used in all worm gear boxes, and in all spur gear boxes. When topping up gear boxes on cranes, care is to be taken to ensure that oil of the same brand is used as that which the gear box is already charged. Where this is not known with certainty or where supplies of the original oil are not available, the gear box is to be thoroughly drained and cleaned and re-charged with the appropriate oil specified above. Oils of different grades should not be mixed.

(b) *Wires*—Wires including strops, are to be kept as free as possible from moisture in order to avoid corrosion. They are to be periodically lubricated with a mixture of mineral grease and plumbago in order to reduce the cutting action between the strands and to prevent access of moisture. Wire ropes of cranes, etc., should be coated with Grease XG-280, Pattern 0474/9100516.

(c) *Cordage*—All cordage when not in use is to be dried and stowed in a well ventilated space; during its storage and when in use subsequently no part of the cordage should be allowed to come in contact with oil, acid or any other deleterious chemicals.

Ammunition Winches

103. The brakes of power worked winches used for hoisting ammunitions are to be tested annually.

Periodical Inspections

104. The Commanding Officer is to ensure that the whole of the equipment of any systems, including associated hull fittings, is examined for defects before and after handling its normal load at six-monthly intervals, and also that all steel wire ropes, splices and strops are examined at frequent intervals with a view to eliminating as far as possible the liability to accident. Particular care should be taken during these examinations having regard to the present increased interval between dockyard refits.

105. A detailed examination of crane structure, before and after use, is precluded because of the time required to do this efficiently except as required by the final sentence of Paragraph 18.

106. When using any machinery or equipment in very cold weather, the increased brittleness of steel that accompanies a heavy fall in temperature must be borne in mind and particular attention should be paid to parts of the equipment subjected to bending stresses, e.g., wires passing round small diameter sheaves, eyes of strops, eyeplates, etc.; the effect of cold on the smaller sizes of wire ropes is more pronounced than on the large sizes. This ill effect is not of a permanent nature and recovery takes place on return to normal temperatures. Special attention is to be paid to crippling or stranding of wires, to signs of drawing splices and to flaws in shackles, eyeplates, and other ship's fittings, used in connection with the system.

Wire Rope

107. The breakage of a few wires is a sign that the rope has passed through one-half of its life and should be carefully watched and examined at least every month and replaced by a new one at an early opportunity.

108. If the total number of broken wires in any length of eight diameters of any wire rope used for hoisting or lowering exceeds 10 per cent of the total number of wires, the rope is unfit for use.

109. Boat slings and wires other than those referred to in Paragraph 100 are to be wiped down, monthly, with boiled linseed oil, and boat slings wire scrubbed, examined and re-coated every three months.

110. Where the hoisting ropes of lifting appliances are enclosed for any part of their length by a ponder-ball, guard or similar covering, this covering is to be removed on each occasion that an examination of the rope is carried out, in order that the whole length of the rope is exposed for inspection and preservation as necessary.

Ribbon Strops

111. Strands of ribbon strops for torpedo handling equipment are particularly liable to deterioration underneath the leather serving where so fitted. This defect cannot be detected without removing the leather.

Cordage

112. All cordage should be inspected frequently and should be returned to a dockyard for test when signs of wear or chafe indicate that it may be unsafe.

Davits

113. In ships fitted with destroyer type of davits, special attention should be given to the screw gears and if excessive backlash is found, this should be treated as a defect and corrected at the earliest opportunity.

Capstans, Cable Holders, Winches and Windlasses

114. The Commanding Officer is to ensure that winches and windlass shafts, cable holders and capstan heads and spindles are turned round and properly lubricated once a week; that the spindles and deck bushes of the capstans and shafts of winches and windlasses are examined in ship, except as stated in Paragraph 119, once in every twelve months, and also that when capstan bars are shipped they are invariably well secured and swiftered to prevent accidents.

115. In submarines in which the driving shaft for the windlass or capstan passes through a stuffing box and gland on the pressure hull, these fittings, together with the portion of the shaft passing through them, are to be examined at each intermediate docking and during each ship refit.

116. Great care is to be taken in the use of patent capstan compressors and controllers which are fitted to ships, and the directions for their use are to be strictly adhered to.

117. In capstans where the capstan head is secured by means of screws or bolts to a disc keyed to the spindle, the capstan head and the disc are to be parted once in every twelve months, and the bearing surfaces, keys and screws examined for deterioration by rust and any other damage, such as fractured bolts, faulty feather keys, etc.

118. The bearing surfaces are to be cleared of any rust and well greased before the capstan head and disc are replaced. If any repairs are found to be necessary and beyond the capabilities of the ship's staff, they are to be included in the next defect list forwarded for the vessel concerned.

119. For ships in reserve, the spindle and deck bushes of capstans and the shafts of winches and windlasses are to be examined once in every two years.

120. The results of all tests of lifting appliances are to be recorded, one copy to be placed in the Captain's ships book and one copy forwarded to Navy Office for inclusion in Navy Office copy of the ships book.

DDG's

121. USN tests and inspections are to apply to the DDG's until there has been an opportunity to cross check with RAN requirements.

Commercial Type Equipment

122. Where commercial type deck cranes are fitted, the periods for tests are to comply with Paragraph 2 of this order. The actual test loads applied after the crane has been surveyed are to be identical with the manufacturer's test loads. Similar test arrangements are to apply to other types of commercial equipment, e.g., capstans, winches, etc.

APPENDIX

HMA Ships' Boats—Types and Lifting Weights

The following list gives the lifting weights of ships' boats. Doubtful cases should be referred to the Naval Board.

Type	Lifting Weight in Tons		
	With Crew and Equipment	With Crew and Equipment Fitted with Buoyancy Tanks	As Seaboard with Total Number of Men Special Service
Hard Chine Motor Boats			
35-ft. fast motor boat or barge ..	6.13 (3 men)	—	—
30-ft. fast motor boat or barge ..	4.34 (2 men)	—	—
26-ft. personnel boat (USN) ..	—	4.10 (2 men)	5.10 (16 men)
Round Bilge Motor Boats			
34-ft. survey motor boat (1944 design)	6.36 (2 men)	6.44 (3 men)	—
34-ft. survey motor boat (1962 design, wood canopy)	7.95 (2 men) (calculated)	—	8.36 (8 men) (calculated)
32-ft. motor cutter	—	—	5.10 (6 men)
27-ft. motor whaler	—	2.39 (4 men)	2.68 (8 men)
25-ft. motor cutter	—	2.74 (2 men)	3.30 (8 men)
17½-ft. motor dinghy	—	1.39 (2 men)	—
17¼-ft. boom boat* (fitted with engine)	—	2.56 (2 men)	—
26-ft. motor whaler mark 10 (USN)	—	2.55 (2 men)	3.93 (20 men)
Pulling and Sailing Boats			
32-ft. sailing cutter	—	—	3.6 (16 men)
27-ft. whaler	—	1.3 (2 men)	1.7 (7 men)
16-ft. skiff dinghy	—	0.7 (2 men)	—
14-ft. sailing dinghy (wood) ..	—	0.52 (2 men)	—
14-ft. sailing dinghy (GRP) ..	0.41 (2 men)	0.41 (2 men)	—
10-ft. dinghy, 4-ft. beam ..	0.29	—	—
8½-ft. pram dinghy	NK	—	—
14-ft. "Bosun" sailing dinghy ..	—	0.35 (2 men)	—

* For Special Service.

(ACDC 400/201/152)



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ANO's 343-356/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
4th August, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

343—Leave Travel Warrants—Correct Procedure

Attention is drawn to the need to follow the provisions of Naval Pay Instructions and the Navy Accounts Manual in regard to the issue of Leave Concession Warrants. The following points should be noted—

- (i) NPI 217/2 (1) provides that the home town of a member is as follows—
 - (a) *Single Member*—The town in Australia in which his parents (or parent) usually resides.
 - (b) *Married Member*—The town in Australia in which his wife usually resides.

In cases where the above does not apply (e.g., a single member whose parents are deceased or separated, a married member separated or divorced from his wife) the member is required to nominate a home town under NPI 217/2 (2) for Naval Board consideration. Warrants to visit a place other than where the member's parents (or wife) resides cannot be issued unless Naval Board approval to visit that place is enclosed in the Member's Service Certificate. It should be noted that under no circumstances can approval be given to visit a fiancée or friend unless the friend is the member's guardian or next of kin (by relationship). Note 4 to NPI 217/2 refers.

- (ii) In normal circumstances, a member is entitled to leave concession travel on two occasions only each leave year. Care should be taken to ensure that members are not allowed to exceed their entitlement as this will result in the cost of the travel on the additional occasion being recovered from them.
- (iii) Where warrants are issued for air travel and the difference in rail/air fares paid by the member, the amount recovered and a reference to the recovery is to be endorsed on the warrant. Navy Accounts Manual 313, Clause 13, will be amended accordingly. The omission of this information results in unnecessary correspondence with ships and establishments.

2. Mistakes continue to be made in the calculation of the difference in rail and air fares resulting in the issue of Forms NA 32 for credit/debit action. Care should be taken to ensure that the correct fares are used in such cases and that the calculations are checked.

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

344—Flying Clothing and Personal Flying Equipment—Scale of Allowances

Navy Order 88 of 1967 is to be amended as follows—

Appendix—

Part II—Naval and Air Stores—

Delete the undermentioned Catalogue Numbers—

Item No.

1. RM520-989-4079-V170
3. 1H6230-067-5209
4. 5965-951-1451
5. RM5965-865-6020-FANN
8. 5825-99-952-6482
9. 5825-99-952-6815
10. 6135-99-519-2369
16. R6605-00-390-8421-V170
21. 1H6675-191-1508

Insert the undermentioned Catalogue Numbers in lieu—

Item No.

1. 7520-00-989-4079
3. 6230-00-067-5209
4. 0558-951-1451
5. 5965-00-856-6020
8. 0625-952-6482
9. 0625-952-6815
10. 0562-519-2369
16. 6605-00-390-8421
21. 6675-00-191-1508

(DSAP 917/61/136)

(Navy Order 88 of 1967)

UNCLASSIFIED

345—Ammunition—Fuzes Time Nos. 206 and 207 for SAAB FEI Firings—Withdrawal

There is no longer a requirement in the RAN for fuzes time Nos. 206 and 207 for SAAB FEI firings.

2. Any fuzes of these types held on board by HMA ships are to be landed at the first available opportunity.

3. RAN armament depots are to report stocks, together with any fuzes time Nos. 206 Mark I and 207 Mark II set aside for conversion, for disposal.

(DAS 726/251/76)

UNCLASSIFIED

346—Ammunition—Fuzes VT N80 Mark 3—MF Lots 1 to 15 Inclusive and Fuzes VT N81 Mark 4—MF Lots 1 to 10 Inclusive—Withdrawal

1. *Ammunition item* Fuzes N80 Mark 3—MF Lots 1 to 15 inclusive.
Fuzes N81 Mark 4—MF Lots 1 to 10 inclusive.
2. *Action to be taken* (a) By HMA ships. Exchange fuzes of these lots held for unrestricted fuzes at the first opportunity.
(b) By RAN armament depots. All stocks and subsequent receipts of fuzes of these lots to be reported for disposal.
3. *Reason for action* Fuzes have failed proof and have been sentenced unserviceable.
4. *Safety category* BR 862, Article 2607, Category "ff".

(DAS 726/70/192)

UNCLASSIFIED

347—Ammunition—Primers Electric N43 Mark 1 of NIL Lots 74, 75, 79, 81 and 85—Withdrawal

(DCI (RN) 1124/1966)

1. *Ammunition item* Primers electric N43 Mark 1, Lots 74, 75, 79, 81 and 85 of NIL (Needle Industries Ltd.) manufacture, filled GD (Glascoed) 3/62, 3/62, 5/62, 5/62 and 8/62, respectively.
2. *Action to be taken by HMA ships and Fleet establishments* .. Cartridges QF 4.5-in. SL fitted with primers electric N43 Mark 1 are to be scrutinised and any found with primers of the above description are to be exchanged at the earliest opportunity.
3. *RAN armament depots* .. Primers electric N43 Mark 1 in bulk and all cartridges fitted with these primers are to be scrutinised and set aside.
4. *Reason for action* The tinned flash washers in these lots of primers have been found to work loose and blow out of the magazine perforations on firing.
5. *Safety category* BR 862 (NMER), Article 1705, Category dd—dangerous if used. If the flash washer is left in the gun it may cause premature firing of the next round loaded.

(DAS 729/56/74)

UNCLASSIFIED

348—Ammunition—Propellant—Landing—Destruction—Reports

Propellant of the following lots and sub-lots is due for withdrawal having reached their age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 3909 ..	SC 048 ..	Cartridges— QF 4-in. (FA)
RNC 3868 ..	} SC 061 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in. (FA)
RNC 3882 ..		
RNC 3925 ..		
RNC 3867 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNC 3881 ..		
RNC 3907 ..		
RNC 3908 ..		
RNC 3866 ..	} SC 122 ..	Cartridges— QF 4.5-in. (FA)
RNC 3906 ..		
RNC 3865 ..	} SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNC 3880 ..		
RNC 3894 ..		
RNC 3905 ..		
RNC 3923 ..		
RNC 3893 ..	} SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 3922 ..		
RNC 3873 ..	} NF 029 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 3899 ..		
RNC 3913 ..		
RNC 3929 ..		
RNC 3902 ..	NF 042 ..	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNC 3874 ..	} NF 052 ..	Cartridges— QF 4-in. (FA)
RNC 3887 ..		
RNC 4541R ..	} NF 080 ..	Cartridges— QF 5.25-in.
RNC 4582R ..		
RNC 4867R ..		
RNC 3901 ..	NF/S116-036..	Cartridges— QF 4-in. (FA)
RNC 3888 ..	} NF/S164-048..	Cartridges— QF 4-in.
RNC 3914 ..		
RNC 3930 ..		
RNC 3875 ..	NF/S198-054..	Cartridges— QF 5.25-in. (SL), QF 4.5-in. (SL)
RNP 129 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
RNP 142 ..		

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNP 127 ..	} SC 140 ..	Cartridges— QF 5.25-in., Impulse Torpedo
RNP 140 ..		
RNP 162 ..		
RNP 126 ..	} SC 150 ..	Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 139 ..		
RNP 161 ..		
RNP 149 ..	} NF 042 ..	Cartridges— QF 4.5-in. (SL), QF 4-in.
RNP 156 ..		
RNP 526R ..		
RNP 136 ..	} NF 052 ..	Cartridges— QF 4-in. (FA)
RNP 314R ..		
RNP 527R ..	} NF 059 ..	Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 147 ..		
RNP 157 ..	} NF 080 ..	Cartridges— QF 5.25-in.
RNP 362R ..		
RNP 374R ..		
RNP 375R ..		
RNP 376R ..	} NF/S164-048..	Cartridges— QF 4-in.
RNP 245R ..		
RNP 246R ..		
RNP 155 ..	} NF/S168-048..	Cartridges— QF 4.5-in. (SL)
RNP 145 ..		
RNP 148 ..		
RNP 152 ..	} SUK/XII ..	Motor Rocket A/C 3-in.
RNP 2372 ..		
RNP 2379 ..		
RNP 2385 ..	} SUK 1.7-0.6..	Motor Rocket 2-in. Flare
BS 20617 ..		
BS 20618 ..		
BS 20619 ..		
BS 19544 ..		
BS 19545 ..		
BS 19547 ..	} SC 048 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
BS 20615XA ..		
BS 20542XA ..		
MEC 116 ..	} SC 103 ..	Cartridges— QF 5.25-in., QF 4.5-in., QF 4-in.
MEC 121 ..		

2. Action to be taken by HMA ships, establishments and ranges

Return to RAN armament depot as early as practicable; if unable to comply within three months from date of this order report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. Action to be taken at RAN armament depots

Declare for disposal. Propellant Acceptance Lists are to be amended.

(DAS 729/51/81)

RESTRICTED

349—Ammunition—Pyrotechnics—Smoke Stores—(Excluding Submarine Signalling Stores)—Details of Types in Current Use in Naval Service

(DCI (RN) 353/1967)

- Items concerned... .. Smoke Stores.
2. Purpose of Navy Order .. To promulgate for the information of all concerned the present position and future trends of Smoke Stores (excluding Submarine Signalling Stores) in the Naval Service.
3. Authorities concerned .. All HMA ships and shore establishments.
4. Information (a) The present wide range of Smoke Stores in Naval Service is causing confusion in some instances as to the correct store to be used for a particular purpose.
- (b) The Annex to this order gives details of stores currently in use, and under development, and the purpose for which they should be used.
- (c) Details of packaging, stowage groups, etc., have been included for ready reference.
- (d) The range of stores is kept under constant review at Navy Office with a view to keeping it to the minimum possible consistent with Service requirements.
5. Allowances The allowances of Smoke Stores are laid down in Naval Proportion Books, Warrants of NA Stores, Etc. This order is not an authority to demand any of the items detailed in the Annex.

ANNEX

<i>Nomenclature</i>	<i>Packed</i>	<i>Stowage on Board HMA Ships</i>	<i>Details and Use</i>	<i>Further Remarks</i>
Float. Smoke and Flame 3½-lb. N2 Mark 2	6 per Box C190	Group 11 Weather deck	Released by helicopters to indicate a position in the sea. Smoke and inflammable vapour are emitted. Burning time is approximately 6 minutes. To be released by hand only at present but from carriers when necessary arrangements have been approved.	Group 11 Cat. X for storage ashore.
Generators, Smoke Y4	8 generators per Box H60	Group 11 Weather deck	Used for training of Fire and Repair parties between decks.	Group 11 Cat. X for storage ashore. Will be superseded in due course by Generator Oil Smoke Training (at present under development).
Generators, Smoke No. 16	50 generators per Case C121	Group 11 Weather deck	Used for training of Fire and Repair parties between decks.	Group 11 Cat. X for storage ashore. Will be superseded in due course by Generator Oil Smoke Training (at present under development).
Marker Manoverboard. Smoke and Light	2 markers per Box N18 (modified)	Group 9 Pyrotechnic Magazine	Used for manoverboard emergency.	Group 11 Cat. X for storage ashore. Eliminates the defect of igniting oil floating on sea. Supersedes Lights Indicating Lifebuoy as the operational (manoverboard emergency) store. To be embarked as soon as the necessary brackets/mountings have been fitted.

<i>Nomenclature</i>	<i>Packed</i>	<i>Stowage on Board HMA Ships</i>	<i>Details and Use</i>	<i>Further Remarks</i>
Marker Marine A/C No. 4 Mark N4 (with parasheet)	2 per Box A231	Group 11 Weather deck	Used for general sea marking purposes. White smoke and yellow flame are emitted. Burning time is 50-60 minutes. Released from Gannet aircraft from flare carriers.	Group 11 Cat. X for storage ashore.
Marker Marine A/C No. 4 Mark N3 (without parasheet)	2 per Box A231	Group 11 Weather deck	Used for general sea marking purposes. White smoke and yellow flame are emitted. Released from helicopters by hand. Burning time 50-60 minutes.	Group 11 Cat. X for storage ashore.
Markers. Smoke and Flame	4 markers per Box H50	Group 9 Pyrotechnic Magazine	Used for manoverboard exercises (cheap "Exercise" version of Marker Manoverboard Smoke and Light).	Group 12 Cat. X for storage ashore. Does not ignite oil floating on sea. Supersedes Lights Indicating Lifebuoy as the manoverboard exercise stores. (Note—This store must NOT be used for manoverboard emergency.)
Markers. Smoke White Mark N3	2 markers per Box N18	Group 11 Weather deck (not to be stowed be- tween decks)	Used by HMA ships fitted with sonar to mark "DATUMS" in certain lost contact searches, etc.	Group 11 Cat. X for storage ashore. The former use of this store for manoverboard emergency and exercises has now lapsed.

Signals Distress Day and Night No. 1 Mark 1	24 per Box A278	Group 9 Pyrotechnic Store	An emergency store used on sea and land and included in personal survival packs. The store is a hand held dual purpose item which can emit orange coloured smoke from one end (daytime) and a reddish flare from the other end (night).	Group 9 Cat. X for storage ashore.
Signals Distress Day and Night Mark 13 Mod. 0	96 per CWP 8 x 12 in signal containers Mark 3 Mod. 0	Group 9 Pyrotechnic Store	An emergency store of USA design for use at sea. The store is a hand held dual purpose item which can emit orange coloured smoke from one end (daytime) and a reddish flare from the other end (night).	Group 9 Cat. X for storage ashore.

(DAS 728/251/74)

UNCLASSIFIED

350—Stores General (Group Class 4930)—Lubrication and Fuel Dispensing Equipment—Change of Stock Numbers

The undermentioned Stock Numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
4930	00-277-1036	Lubricating Unit	4930	00-720-4849	

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old Stock Number until advice is received that stocks are exhausted.

4. The Stock Numbers of the undermentioned items have been changed as follows—

<i>Old Stock Number</i>			<i>New Stock Number</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
4930	00-293-9045	Grease Gun, Hand	4930	00-223-3389	
4930	00-273-3654	Oiler, Hand	4930	00-262-8870	
4930	00-276-7878	Grease Gun, Hand	4930	00-250-8038	

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812, for items enumerated in Paragraph 4, above.

(DSAP 506/51/339)

UNCLASSIFIED

351—Stores General (Group Class 5305)—Screws—Obsolescent Federal Stock Numbers

The USA has advised that the undermentioned Federal Stock Numbers for Non-standard Items are replaced by Standard Items.

2. Accordingly, the Federal Stock Numbers have been declared obsolescent superseded by the standard item, as follows—

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5305	00-042-6697	SCREW, MACHINE	5305	00-939-9132	
5305	00-059-8461	SCREW, MACHINE	5305	00-054-6653	
5305	00-017-9862	SCREW, CAP	5305	00-050-1076	
5305	00-059-8448	SCREW, MACHINE	5305	00-054-5648	
5305	00-059-8450	SCREW, MACHINE	5305	00-054-5650	
5305	00-058-6886	SCREW, MACHINE	5305	00-939-9208	
5305	00-010-1075	SCREW, MACHINE	5305	00-068-9192	
5305	00-151-0933	SCREW, MACHINE	5305	00-957-6636	
5305	00-151-1498	SCREW, MACHINE	5305	00-993-0191	
5305	00-151-1500	SCREW, MACHINE	5305	00-993-0190	

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5305	00-022-7103	SCREW, MACHINE	5305	00-765-4352	
5305	00-059-8459	SCREW, MACHINE	5305	00-054-6651	
5305	00-022-7059	SCREW, MACHINE	5305	00-770-2580	
5305	00-059-7199	SCREW, MACHINE	5305	00-763-6963	
5305	00-059-8452	SCREW, MACHINE	5305	00-054-5655	
5305	00-151-0397	SCREW, MACHINE	5305	00-531-0298	
5305	00-151-0398	SCREW, MACHINE	5305	00-558-4887	
5305	00-151-0392	SCREW, MACHINE	5305	00-543-2023	
5305	00-151-1379	SCREW, MACHINE	5305	00-889-2999	
5305	00-059-8447	SCREW, MACHINE	5305	00-054-5647	
5305	00-151-1232	SCREW, MACHINE	5305	00-889-3001	
5305	00-151-1229	SCREW, MACHINE	5305	00-984-4988	
5305	00-151-1228	SCREW, MACHINE	5305	00-984-4984	
5305	00-151-1230	SCREW, MACHINE	5305	00-984-4989	
5305	00-151-1378	SCREW, MACHINE	5305	00-889-2998	
5305	00-151-1499	SCREW, MACHINE	5305	00-889-3116	
5305	00-151-1848	SCREW, MACHINE	5305	00-984-4989	
5305	00-151-3555	SCREW, MACHINE	5305	00-990-8386	

3. The symbol "O" is to be inserted against all records of the obsolescent item.

4. Ships and establishments are to continue to demand the old Stock Number until advice is received that stocks are exhausted.

(DSAP 506/61/526)

UNCLASSIFIED

352—Stores General (Group Class 5910)—Capacitors—Changes of Stock Numbers

The undermentioned Stock Numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5910	00-190-9588	Capacitor, Fixed	5910	00-725-1994	
5910	00-191-2680	Capacitor, Fixed	5910	00-762-2945	
5910	00-229-1753	Capacitor, Fixed	5910	00-899-2538	
5910	00-276-6849	Capacitor, Fixed	5910	00-899-2538	
5910	00-280-9571	Capacitor, Fixed	5910	00-060-9619	
5910	00-643-8571	Capacitor, Fixed	5910	00-615-5120	
5910	00-644-6160	Capacitor, Fixed	5910	00-844-6469	
5910	00-834-7077	Capacitor, Fixed	5910	00-950-1477	
5910	00-663-4574	Capacitor, Fixed	5910	00-762-2945	
5910	00-845-1730	Capacitor, Fixed	5910	00-082-4786	
5910	00-101-4679	Capacitor, Fixed	5910	00-765-6228	
5910	00-184-4513	Capacitor, Fixed	5910	00-765-6228	
5910	00-276-6887	Capacitor, Fixed	5910	00-717-0169	
5910	00-284-4050	Capacitor, Fixed	5910	00-717-0169	
5910	00-666-6980	Capacitor, Fixed	5910	00-821-4702	
5910	00-834-2787	Capacitor, Fixed	5910	00-728-1582	

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5910	00-834-9771	Capacitor, Fixed	5910	00-728-1582	
5910	00-840-0194	Capacitor, Fixed	5910	00-060-9619	
5910	00-170-8707	Capacitor, Fixed	5910	00-060-9619	
5910	00-161-4490	Capacitor, Fixed	5910	00-712-6166	
5910	00-448-0494	Capacitor, Fixed	5910	00-725-4795	
5910	00-636-2134	Capacitor, Fixed	5910	00-725-4795	
5910	00-823-1025	Capacitor, Fixed	5910	00-725-4795	
5910	00-826-5466	Capacitor, Fixed	5910	00-725-1994	
5910	00-270-3196	Capacitor, Fixed	5910	00-725-1994	
5910	00-474-4142	Capacitor, Fixed	5910	00-823-1145	
5910	00-101-4900	Capacitor	5910	00-804-2378	
5910	00-552-9796	Capacitor	5910	00-082-4788	
5910	00-581-8097	Capacitor	5910	00-777-6876	
5910	00-636-1655	Capacitor	5910	00-840-6672	
5910	00-829-3727	Capacitor	5910	00-990-5177	
5910	00-838-3854	Capacitor	5910	00-725-1993	
5910	00-883-5716	Capacitor	5910	00-082-4788	
5910	00-552-1506	Capacitor, Fixed, Mica Dielectric	5910	00-804-2378	
5910	00-636-2123	Capacitor, Fixed, Mica Dielectric	5910	00-725-1993	

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old Stock Number until advice is received that stocks are exhausted.

4. The Stock Numbers of the undermentioned items have been changed as follows—

<i>Old Stock Number</i>			<i>New Stock Number</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5910	00-686-8948	Insulator, Washer	5970	00-686-8948	
5910	00-665-0309	Capacitor	5910	00-807-5570	
5910	00-192-0003	Capacitor	5910	00-543-9462	

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812, for items enumerated in Paragraph 4, above.

(DSAP 519/65/274)

UNCLASSIFIED

353—Stores General (Group Class 5920)—Fuse and Lightning Arrestors—Changes of Stock Numbers

The undermentioned Stock Numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
5920	00-156-9234	Fuseholder	5920	00-581-7957	
5920	00-199-9225	Fuseholder	5920	00-581-7957	
5920	00-329-9036	Fuseholder	5920	00-581-7957	
5920	21-309-0105	Fuse	5920	00-243-5085	

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old Stock Number until advice is received that stocks are exhausted.

4. The Stock Numbers of the undermentioned items have been changed as follows—

<i>Old Stock Number</i>			<i>New Stock Number</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
6930	00-348-0494	Transformer, Pulse	5950	00-865-3179	

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812, for items enumerated in Paragraph 4, above.

(DSAP 506/51/313)

UNCLASSIFIED

354—Stores General (Group Class 6675)—Drafting, Surveying and Mapping Instruments—Change of Stock Numbers

The undermentioned Stock Numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>			<i>Superseding Item</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
6675	00-286-0603	Drafting Instrument	6675	00-641-3529	

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old Stock Number until advice is received that stocks are exhausted.

4. The Stock Numbers of the undermentioned items have been changed as follows—

<i>Old Stock Number</i>			<i>New Stock Number</i>		
<i>Group Class</i>	<i>Catalogue Number</i>	<i>Item Name</i>	<i>Group Class</i>	<i>Catalogue Number</i>	
6675	00-246-0926	Dividers, Drafting	6675	00-641-3512	

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812, for items enumerated in Paragraph 4, above.

(DSAP 514/62/288)

UNCLASSIFIED

355—Stores—Stocktaking/Location Record Pages, Forms AS 148P/C/N—Procedure for Recording Valuable and Attractive Items

To facilitate stocktaking of valuable and attractive stores (which require to be mustered every six months) in ships and establishments using Stocktaking/Location Record pages, Forms AS 148P/C/N, introduced by Navy Order 177 of 1967, the following procedure is to be adopted—

(a) Duplicate pages are to be raised for all items classified as valuable or attractive.

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- (b) The original pages for such items are to be endorsed with a large "V" to show that the item is valuable or attractive and that a duplicate record is held.
- (c) The duplicate pages are to be arranged in left justified sequence of catalogue number order throughout each group class and enclosed in separate binders Forms AS 155, corresponding to the valuable and attractive items held in each store room.

2. ABR 4, Chapter 16, is being amended accordingly.

(DSAP 501/57/1106)

(Navy Order 177 of 1967)

UNCLASSIFIED

356—35748612—Cartridges .303 Ball Mark 7 in Bulk (1957 UK Manufacture)—Withdrawal

- Items concerned* 35748612 .303 Ball Mark 7 in Bulk 1957 UK Manufacture—Withdrawal.
- 2. *Purpose of Navy Order* To promulgate instructions for the withdrawal from service of all 35748612 Cartridges .303 Ball, showing manufacturers markings other than "MF".
- 3. *Safety category* NMER—BR 862, Article 1705, Category DD, i.e., Dangerous if used; not to be fired.
- 4. *Ships and establishments concerned* All HMA ships and establishments holding stocks of this ammunition.
- 5. *Action to be taken by HMA ships* All stocks to be returned to the nearest RAN armament depot.
- 6. *By RAN armament depots* All stocks to be declared for disposal.
- 7. AG message 121F is hereby cancelled.

(DAS 726/251/314)

ANO 357/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
8th August, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

357—The Design and Operation of Clean Rooms for Repair and Maintenance of High Precision Equipment

Certain categories of equipment and stores being introduced into Naval Service are manufactured under strictly controlled environmental conditions. Special precautions are necessary for a number of reasons including the establishment of low friction values for precision moving components, freedom from contamination, the exclusion of foreign bodies, and the need to ensure that designed performances are achieved.

2. Defence authorities concerned with contract production of military equipment are becoming increasingly aware of the difficulty in establishing, by normal inspection processes, that these requirements are being met. It is therefore becoming necessary for such authorities to have contractual control over manufacturing conditions and this is being achieved by establishing categories into which selected equipments may be placed and specifying environmental conditions which must obtain for their manufacture, and subsequent repair and servicing.

3. The resultant facilities are designated as "Clean Room Facilities", "Instrument Clean Rooms", or sometimes "White Rooms" and the terms imply not only the provisions of special measures for the control of the temperature, humidity and dust content of the atmosphere, and for the control of building methods and materials, but also the establishment of an organisation to ensure that clean room discipline is maintained.

4. The establishment of clean room facilities is in fact a matter of establishing and enforcing standards of cleanliness which will appear unorthodox, tedious and time consuming and which therefore depend for their success on—

- (a) An understanding of the requirement by all concerned.
- (b) The application and enforcement of strict rules.
- (c) The establishment of monitoring procedures.

5. The Naval Board have therefore decided that it has become necessary to lay down rules for guidance in establishing or assessing clean room facilities and for categorising equipments for which clean room facilities are mandatory.

6. It is emphasised that the requirements detailed are only one special facet of the general problem of control of quality which is required in the manufacture, repair and servicing of modern military equipment.

Definitions

7. (a) *Clean Room*—The term "clean room" as used herein is a laboratory or shop which incorporates high standards of environmental control and cleanliness necessary to meet exacting operations and tolerances during the repair, assembly, calibration, and test of precision instruments, electro-mechanical devices, and comparable high precision items.

- (b) *Air Lock*—An air lock, as used herein, is a small chamber located at an entrance to a clean area. The doors of an air lock chamber are so interlocked that only one can be opened at a time; this acts as an air seal for the clean room to prevent flow of contaminated air from the outside into the clean room.
- (c) *Personnel Cleaning Chamber*—A small chamber equipped with shoe cleaning devices, high velocity air blast, vacuum lines and/or other devices to remove dirt, dust and lint from clothing of personnel prior to their entering clean room area.
- (d) *Materials Cleaning Room*—A room immediately adjacent to the clean room, equipped with vacuum lines, ultra-sonic cleaners and/or other mechanical devices for cleaning parts, tools and materials immediately prior to their entry into the clean room.
- (e) *Dust Preventive Clothing*—Special clothing such as smocks, coveralls, caps, gloves and boots made of synthetic fabrics and cleaned by a special process, designed and used for wear by personnel while working in or visiting clean room areas. Their purpose is to prevent contamination of the clean room with dust, lint, dandruff and other foreign particles from the individual's clothing, shoes and hair.
- (f) *Air Conditioning*—Air conditioning, as used herein is the control and conditioning of the air in the clean room to maintain specified standards of temperature, humidity, dust control and pressurisation. This is accomplished by mechanical refrigeration equipment, humidifiers, dehumidifiers, air filters and allied controls.
- (g) *Environmental Control*—Environmental control, as used herein, is a collective term to identify the control of all factors of the environment of the clean room. This includes air temperature and humidity, dust control, pressurisation, illumination and the activities of personnel which directly affect the clean room environmental conditions.
- (h) *Sterile Hooded Workbench*—A sterile hooded workbench, as used herein, is a self-contained workbench unit having its own filtered air supply. The clean air is forced into the unit through suitable ducts and ports, thus pressurising the chamber and forcing a continuous flow of dust free air out of the opening in front of the unit to exclude dust particles from entering the hooded work space area.

Modern Clean Room Practices

8. Practicable standards for a high class clean room facility to meet current Naval requirements are detailed below. More stringent standards have been met for specific applications overseas.

Air Conditioning

9. The air conditioning system should satisfy the following requirements—
- (a) *Temperature Control*
72° F.
Control plus or minus 2° F. to maintain mechanical tolerances.

(b) Humidity Control

Range 35 to 45 per cent humidity. Higher humidity can introduce rusting of components and lower humidity is not desirable because of the static electricity likely to be generated and of course the need for operator comfort.

(c) Dust Control

Dust evaluation techniques are not yet available to rate a given supply of air as completely dust free. Low dust count levels can be achieved however by use of high efficiency prefilters, water wash units of super-interception filters used in that order. The highest class of clean room will require capture of particle sizes of two microns (1 micron = 1/25,000-in.) and atmospheric contamination should be considered present when a filter array efficiency test is below 95 per cent when rated on an area discoloration percentage basis (see Appendix).

(d) Pressurisation

The air conditioning system should have a capacity to maintain a minimum positive pressure differential in the clean area of 0.1 in. WG. Less critical adjoining process rooms may work to a reduced pressure with the lowest pressure differential at the air lock and entrance. Approximately 33 per cent fresh air should be introduced through independent high efficiency filters prior to entry into the recirculation air stream. The ventilation rate will require an air change over three to four minutes and air diffusers will be required to make certain that air flow does not cause drafts.

(e) Special building and air duct installation precautions will be necessary to prevent air leaks and "whistles" due to pressurisation. Gasketed joints will be necessary at utility entrances, i.e., piping conduits and duct work.

(f) Vibration and noise from the air conditioning system or adjoining machinery should be isolated or reduced to a practical minimum from the clean area.

Construction

10. Construction of the clean area should be along the following lines—

(a) All materials for the interior of the clean room should be selected for their non-flaking, non-powdering characteristics. Smooth glossy surfaces of low dust adherence such as stainless steel, glass, formica sheet and durable paint should be used. Semi-flat paint is acceptable where glare is to be avoided.

(b) Entrances to the clean area should be provided with air locks of sufficient capacity to serve as locker and cloak rooms and personnel cleaning areas.

(c) Inter-locked glazed pass-throughs should be provided in partition walls where work is to be transferred from one pressurised area to another.

(d) Smooth panel lining should be used and horizontal flush joints reduced to a minimum.

(e) Flush ceiling lights should be used, one hundred foot candles of shadowless lighting being required at the working level.

(f) Doorways in pressurised rooms should open towards the lower pressure area.

(g) Doors should be flush fitted with concealed hinges.

(h) Windows should be fixed and flush fitted to the internal wall surfaces.

(i) Ledges, architraves and moulding should be avoided.

(j) Storage areas for spare parts, tools, jigs and fixtures should be fitted flush with the internal wall surface.

(k) Smooth continuous strip vinyl sheeting should be used for floor coverings and corners covered to 2-in. radius minimum.

(l) Sprinkler fittings should protrude to a minimum for positive operation.

Furnishing

11. Special furniture and fittings required for clean areas are as follows—

(a) Work benches, stools and furniture should be selected for their ease of cleaning, stainless tubular construction should be used and horizontal ledges and braces including foot rests avoided.

(b) Powered shoe brushes should be provided at the entrance to the first air lock prior to the pressurised area.

(c) Wash rooms and rest rooms should be provided with hot air hand dryers. (Paper hand towel dispensers should not be used.)

(d) Gelatinous or equivalent matting, having a tacky surface, should be provided outside the doorway of all pressurised areas.

(e) Large wall mirrors should be provided in the air lock for personal check of clothing routines prior to entry to the clean area.

(f) A central vacuum cleaning system capable of wet or dry pick-up is required. Particular requirements are—

(i) An industrial vacuum cleaner of sufficient capacity to service the entire clean area with discharge and dust tank located outside clean area.

(ii) Flap valves to close all couplings not in use.

(iii) Couplings to take hose for cleaning floors, furniture, work areas and benches.

(iv) Couplings to take hose at benches for cleaning of equipment being serviced.

(v) All hosing should be semi-transparent or clear plastic and flexible.

(vi) At least two vacuum outlets are required in the first air lock for vacuum cleaning of clothing on incoming staff and visitors.

(vii) Vacuum cleaner pick-up is required at the powered shoe brushes.

(viii) Compressed air cleaning should not be permitted in the clean room area.

Discipline

12. The following personnel techniques and procedures should be enforced for all personnel who enter the clean area—

- (a) Instructions to personnel should be posted outside the entrance door.
- (b) Facility for shoe brushing and instructions for its use should be provided at the entrance to the air lock.
- (c) Facility for vacuuming down clothing should be provided in the air lock.
- (d) Arrangements should be made or instructions posted to ensure that only one door of the air lock is opened at a time.
- (e) Lint free smocks (nylon or equivalent) should be provided in the air lock.
- (f) Lint free head covering should be provided in the air lock.

Note—Smocks and head coverings should be issued to staff and visitors from lockers in the air lock. They should be re-issued to staff at least weekly and should not be laundered with other fabrics.

- (g) Personal packages, i.e., hats, gloves, overcoats, parcels, papers, etc., should be left in lockers in the air lock.
- (h) The gelatinous or equivalent mat should be stood upon before entering the clean area.
- (i) The following should be refrained from in the clean area—
 - Eating.
 - Drinking.
 - Smoking.
 - Application of pharmaceutical material.
- (j) Smocks and caps should be left in the air lock when leaving.

Material Handling

13. The following material handling and work techniques should be observed by all personnel employed in the clean area to reduce conceivable sources of dust and contamination. The engineering effort of air conditioning room design and work facilities are of little benefit to cleanliness if the material handling and work techniques are not willingly practiced—

- (a) Only those materials including test fixtures, tools, jigs, assembly fixtures and authorised spare parts for the accomplishment of the work within the clean area should be admitted into the clean area.
- (b) All those items including piece parts, sub-assemblies, completed devices, fixtures, tools, containers, paper work, etc., which are brought into the clean area must be certified clean or have been thoroughly and appropriately cleaned just prior to bringing them into the clean area. This may be accomplished through vacuuming, degreasing, or use of proper cleaning cloths in the cleaning area adjacent to the clean room or in the air lock whichever is most appropriate.

- (c) The use or presence of abrasive material (steel wool, sand paper, crocus cloth, cutting stones, files) should be prohibited in the controlled area. In cases of absolute necessity, abrasive actions should be accomplished where a vacuum hose can be used to remove waste residue at the source.
- (d) Lint free cleaning cloths should be used for cleaning and wiping components. Cleaning cloths should be dyed and name branded for easy identification. They should not be laundered with other fabrics.
- (e) Clear plastic sheeting (lightweight) should be used for covering partly assembled work and for component handling to prevent finger stains.
- (f) Clear plastic envelopes should be used to protect components such as contact wipers, potentiometers, small sub-assemblies, bearings, etc., prior to assembly.
- (g) Clear plastic fluid dispensers (6 to 8-oz.) with probe and cap should be used to hold locking varnish and glyptol. The cap and probe should only be removed when the dispenser is being used.
- (h) Rubber or plastic bench pads approximately 12-in. x 18-in., for location of hand tools and resting of components should be provided two to each bench.
- (i) Waxed paper bags should be used as liners for white plastic waste baskets. Waxed paper bag top should be folded down prior to removal for disposal.
- (j) Check sheets, inspection records, etc., should be of high grade paper with smooth surface to reduce paper dust and lint generation.
- (k) Identification labels should be in good condition or replaced prior to acceptance within the clean area and should be secured with soft tinned copper wire.
- (l) Ball point pens or unpainted pencils should be used.
- (m) Erasers should not be permitted.

Personnel must be aware of the danger of high acid content in the moisture of hands which could cause contamination to precision parts during handling. Frequent wiping of the hands with lint free cloths or a soft chamois kept for this purpose is a recognised practice to observe.

Maintenance of Clean Area

14. The following janitor duties are required for the removal and control of dust—

Area	Method and Sequence	Frequency During Normal Use
Floors in all clean areas and air locks	Vacuumed	Daily
	Damp wiped	Daily
	Liquid waxed	Daily
<i>Note</i> —Floors should never be buff polished.		
Special foot mats and entrances	Vacuumed Damp wiped	Every two hours Daily
Waste baskets	Vacuumed Washed	Daily Weekly

Area	Method and Sequence	Frequency During Normal Use
Shelves in air lock	Vacuumed	Daily
Horizontal surfaces which are a normal portion of the clean room	Vacuumed	Daily
Benches and work areas ..	Vacuumed Damp wiped	At least daily As necessary
Windows and walls	Vacuumed	Bi-monthly
Lighting fixtures	Inspected	Bi-monthly
Air conditioning filters ..	As directed by Manufacturer	As directed by Manufacturer

Classification of Clean Rooms

15. Naval equipment being manufactured or serviced may not always require such stringent standards as detailed in Paragraphs 8-14 above. Clean rooms are therefore divided into four classifications. These classifications depend mainly on the maximum dust particle size permissible for equipment to be serviced or manufactured therein and to a lesser degree on the humidity and temperature control necessary. These factors in turn affect the requirements for air lock doors, special personnel clothing, special material handling techniques, etc. In determining the classification of a clean room required for particular equipment, as far as dust particle size is concerned, a useful rule states that—

"The maximum permissible dust particle size present must always be less than one-third the least clearance between two moving surfaces to be exposed in the equipment concerned."

(a) Class I Clean Area

- (i) Normal unfiltered air only is required.
- (ii) Humidity should not exceed 65 per cent.
- (iii) Temperature control $72^{\circ}\text{F.} \pm 5^{\circ}\text{F.}$
- (iv) Air lock access arrangements are unnecessary.
- (v) Clean overalls and footwear only are required.
- (vi) Normal material handling arrangements are permissible.

(b) Class II Clean Area (Dust restricted). Fig. 1

- (i) Particle count not to exceed a total of 100,000 particles per cubic foot 0.5 microns and larger, or 700 particles per cubic foot 5.0 microns and larger.
- (ii) Humidity should not exceed 65 per cent.
- (iii) Temperature control $72^{\circ}\text{F.} \pm 5^{\circ}\text{F.}$
- (iv) Clean overalls and footwear only are required. Otherwise as in Paragraphs 8-14 above.

(c) Class III Clean Area (Dust protected). Fig. 2

- (i) Particle count not to exceed a total of 10,000 particles per cubic foot 0.5 microns and larger, or 65 particles per cubic foot 5.0 microns and larger.
- (ii) Humidity should not exceed 50 per cent.
- (iii) Temperature control $72^{\circ}\text{F.} \pm 5^{\circ}\text{F.}$ Otherwise as in Paragraphs 8-14 above.

(d) Class IV Clean Area (Dust free). Fig. 2

- (i) Particle count not to exceed a total of 100 particles per cubic foot 0.5 microns and larger. Otherwise as in Paragraphs 8-14 above.

Use of Sterile Hooded Work Benches (see Fig. 3)

16. Where it is considered practical and economical, sterile hooded work benches with separate filtered air flow can be used within a clean room to provide flexibility of temperature, humidity and dust control and to meet the more stringent requirements for certain equipment within an existing clean room facility of lower classification.

Example—When a work specification requires a lower class clean room temperature and humidity control as now specified in a higher classification maximum dust particle size tolerance, the higher class clean room would normally be required. However, if such a facility is not available or warranted due to limited work load requirements, hooded work benches could be used in a Class I or II clean room to meet the Class III or IV maximum dust particle size tolerance required.

Categorisation of Equipment Requiring Clean Room Facilities

17. Equipment requiring clean room facilities for repair or manufacture are categorised as follows—

Category 1 (Equipment requiring Class I facilities)

Equipment comprising simple conventional or low density assemblies, e.g., clocks, magstrip elements, split field motors, electronic torpedo components, equipment when stored in ready-issue electronic stores and when fitted in test equipment houses, general laboratory rooms, missile check, gauge and laboratory rooms and as supplied for Armament Depot missile assembly.

Note—With reference to Armament Depots where clean room requirements conflict with explosive safety regulations such safety regulations will always override the method of achieving clean room requirements, e.g., types of floor cleaning methods, etc.

Category 2 (Equipment requiring Class II facilities, see Fig. 1)

Equipments whose serviceability and reliability are important to their operational role and which must be assembled under controlled conditions, e.g., sealed relays, miniaturised and printed circuit cards, sealed switches, precision potentiometers, miniaturised connectors, etc.

Category 3 (Equipment requiring Class III facilities, see Fig. 2)

Equipment having a vital operational role and/or a specified high reliability requirement and/or employing techniques of construction which necessitate controlled conditions during manufacture or repair where Class II facilities are insufficient.

Category 4 (Equipment requiring Class IV facilities, see Fig. 2)

Equipment which cannot be relied upon to function satisfactorily unless assembled prior to sealing in a virtually dust free environment, e.g., high precision gyroscopic instruments.

Categorisation Procedure

18. Categorisation of particular equipment will be directed from time to time by the Naval Board. The clean room facilities necessary for manufacture and repair of such equipment will then be those appropriate to its categorisation.

19. This order is for information and is not to be used as an authority to forward proposals for the alteration or improvement of existing facilities.

20. Outline proposals for new workshops and repair facilities or major alterations to existing facilities which may require to incorporate "clean room" conditions are to be prepared having regard to the provisions of this order.

21. Detailed planning should not, however, proceed until a decision to embody "clean room" facilities is made by the Naval Board.

22. In consideration of the suitability of "clean room" facilities available at contractors' works, an assessment is to be made in terms of the requirements for the various clean room classifications detailed in this order. In the case of clean rooms which, apart from minor variations, fall into one or other of the four classifications, specific recommendations as to concessions acceptable, having regard to the nature of the work to be undertaken, are to be made.

APPENDIX

Air Filter Area Discoloration Percentage Test

This test consists of drawing samples of air, taken before and after cleaning, simultaneously through filter papers. The light from a single bulb passes through the papers and falls on two photocells connected to a single galvanometer. If one photocell receives more light than the other, the galvanometer reads other than zero. The reading is maintained at zero, i.e., the degree of discoloration of the two papers is kept equal, by varying the rate of air flow through the papers. The discoloration efficiency (Ed) of the air cleaning device is established from the air flow rates as follows—

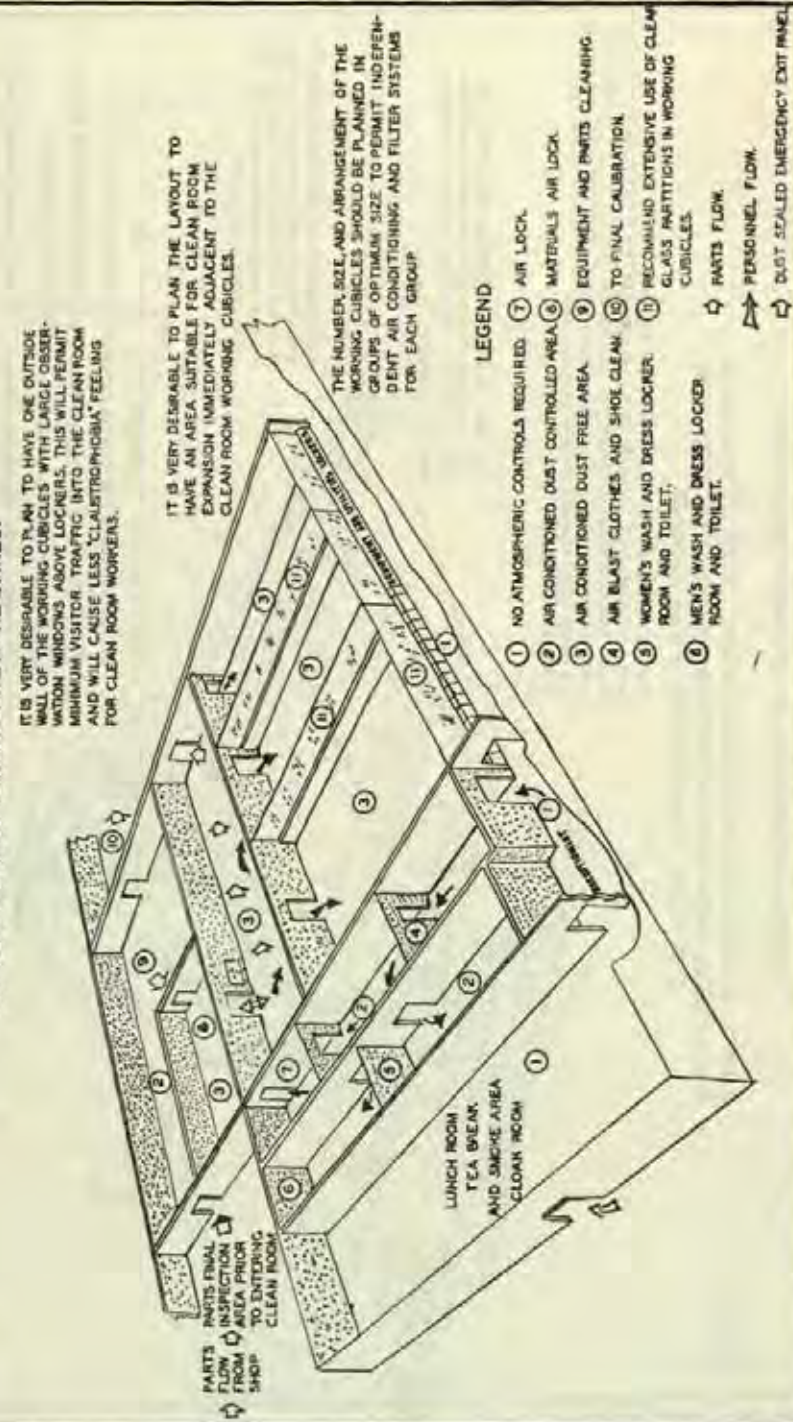
$$Ed = \left(1 - \frac{Q1}{Q2}\right) 100$$

where Q1 is the flow rate of the air coming from a location before cleaning, and Q2 is the flow rate of the air coming from a location after cleaning.

TYPICAL LAYOUT FOR A CLASS II CLEAN ROOM

CAREFUL CONSIDERATION OF EFFICIENT TRAFFIC FLOW OF PERSONNEL AND MATERIAL FROM OUTSIDE, THROUGH CLEANING PROCESSES, INTO THE CLEAN ROOM WORKING AREAS REQUIRED.

FIG. 1



TYPICAL LAYOUT FOR A CLASS III AND IV CLEAN ROOM

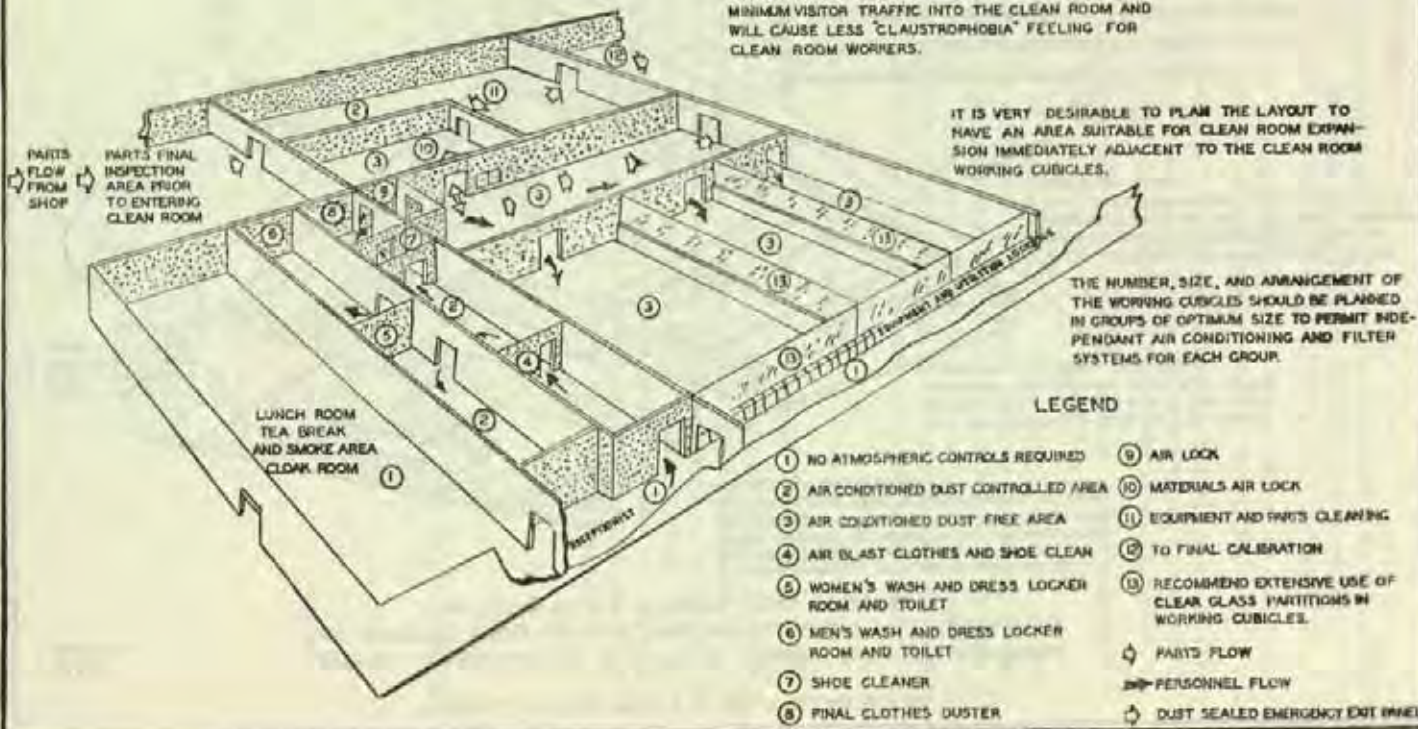
FIG. 2

CAREFUL CONSIDERATION OF EFFICIENT TRAFFIC FLOW OF PERSONNEL AND MATERIAL FROM OUTSIDE, THROUGH CLEANING PROCESSES, INTO THE CLEAN ROOM WORKING AREAS REQUIRED.

IT IS VERY DESIRABLE TO PLAN TO HAVE ONE OUTSIDE WALL OF THE WORKING CUBICLES WITH LARGE OBSERVATION WINDOWS ABOVE LOCKERS THIS WILL PERMIT MINIMUM VISITOR TRAFFIC INTO THE CLEAN ROOM AND WILL CAUSE LESS 'CLAUSTROPHOBIA' FEELING FOR CLEAN ROOM WORKERS.

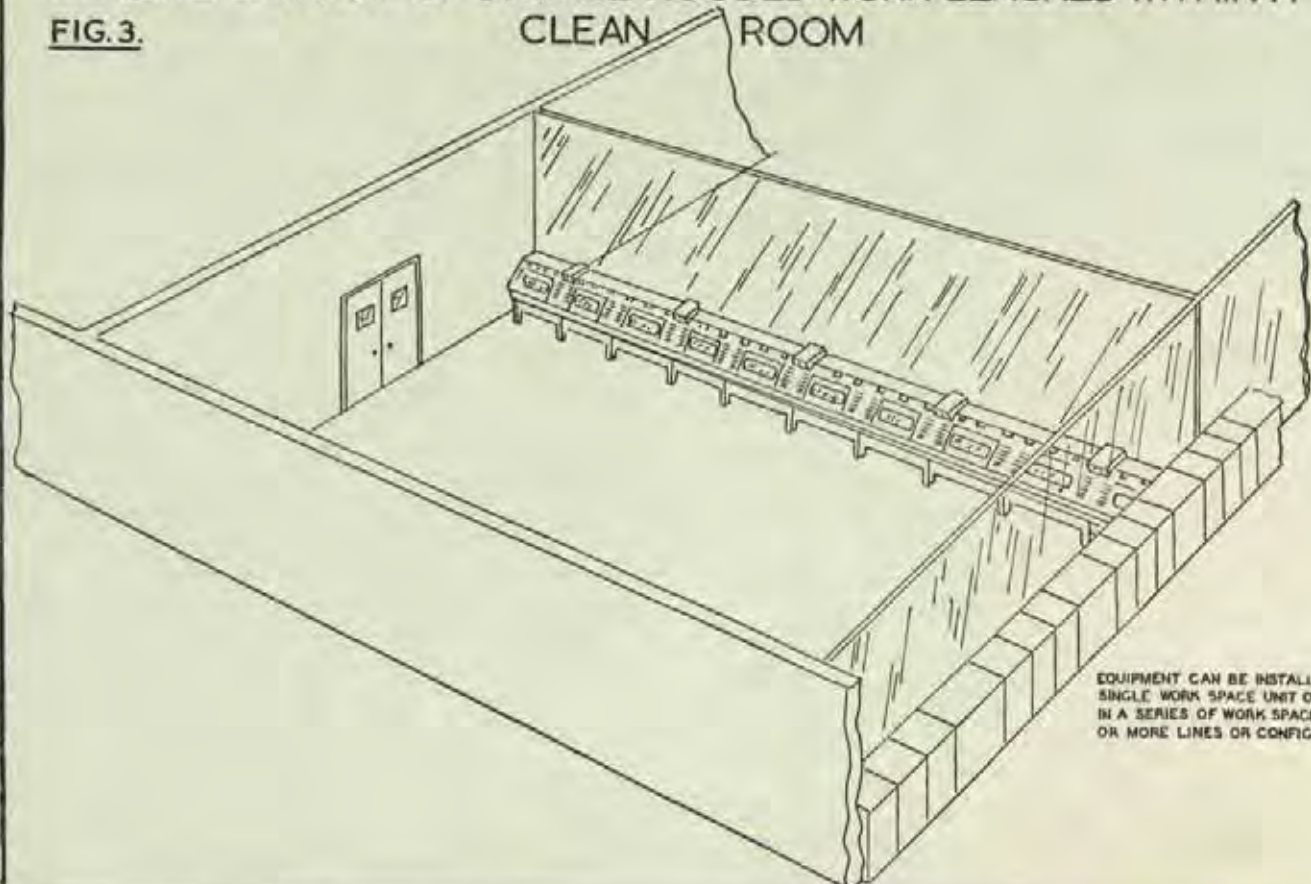
IT IS VERY DESIRABLE TO PLAN THE LAYOUT TO HAVE AN AREA SUITABLE FOR CLEAN ROOM EXPANSION IMMEDIATELY ADJACENT TO THE CLEAN ROOM WORKING CUBICLES.

THE NUMBER, SIZE, AND ARRANGEMENT OF THE WORKING CUBICLES SHOULD BE PLANNED IN GROUPS OF OPTIMUM SIZE TO PERMIT INDEPENDANT AIR CONDITIONING AND FILTER SYSTEMS FOR EACH GROUP.



TYPICAL LAYOUT OF STERILE HOODED WORK BENCHES WITHIN A CLEAN ROOM

FIG. 3



EQUIPMENT CAN BE INSTALLED AS A SINGLE WORK SPACE UNIT OR JOINED IN A SERIES OF WORK SPACES IN ONE OR MORE LINES OR CONFIGURATIONS

RESTRICTED

ANO's 358-370/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
9th August, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

358—Fourth Submarine Squadron of the RAN

The Fourth Submarine Squadron (RAN) will be established on 18th August, 1967, on the occasion of the commissioning of HMAS PLATYPUS. Command of the Squadron and of HMAS PLATYPUS will be vested in the Commander (SM), Fourth Submarine Squadron (signal address SM4) whose postal address will be—

HMAS PLATYPUS,
Neutral Bay,
New South Wales. 2089.

2. The Fourth Submarine Division (RN) will be disbanded from the same date.

(DSMP 2/204/56)

Section 2

PERSONNEL

UNCLASSIFIED

359—Entertainment of Personnel of Foreign Warships Visiting Australia Station

The Central Canteens Board will subsidise excessive costs incurred by Chief Petty Officers, Petty Officers and Junior Sailors Messes required to entertain personnel from foreign warships visiting the Australia Station. Assistance will be confined to small sailors' messes called upon to entertain visiting Naval personnel as part of an officially organised programme of entertainment.

2. The amount of reimbursement will be dependent upon the cost of entertainment, but normally will not exceed one dollar per guest.

3. Claims for reimbursement are to be rendered as soon as possible after the date of entertainment and should include the following information—

<i>Details of Entertainment</i>	<i>Number Attending</i>
Date	Mess Members
Place	Guests
Time	Name of Ship Entertained
Nature of Entertainment	Total Attending
Claimant	Total Cost
	Cost per Head
	Total Claimed

4. Claims should be signed by the Captain and forwarded to the Administrative Authority for onward transmission to the Secretary, RAN Central Canteens Board, Victoria Barracks, Melbourne, Vic. 3000, with a specific recommendation in regard to the amount of reimbursement.

(Secretary
RAN CENTRAL CANTEENS BOARD
252/4/50)

UNCLASSIFIED

360—Fees Payable to Medical Practitioners, Radiologists, Radiographers, Speech Therapists, Physiotherapists, Occupational Therapists, Chiropodists and Orthoptists

Navy Order 777 of 1965, Appendix A is to be amended as follows—
Items 13 and 17—

Travelling allowance—Delete (10 cents) and insert 12 cents.

(MDG 327/61/37)

(Navy Order 777 of 1965)

UNCLASSIFIED

361—Sailors Training Results—January-June, 1967

As stated in Navy Order 54 of 1967, future summaries of the training effort of each ship and establishment will cover six monthly periods. The appendix to this order show achievements from 1st January, 1967, to 30th June, 1967. It is pointed out that the results shown in the appendix are those received in Navy Office by 30th June, 1967, and it is thus possible that there are some results which, although obtained prior to 30th June, 1967, are not included in the appendix. These results will be included in the next summary.

2. It is emphasised that the numbers shown have been compiled from AS 161A and other results received at Navy Office and take no cognisance of the relative ability of ships and establishments to train during the period under review. For example, some ships may have been refitting, some on operations when training was not possible, or some may not have borne unqualified sailors of suitable categories and abilities for training. In the case of shore establishments it is not possible to separate training in schools from training of the ship's company.

3. It will be apparent that for ships and establishments to receive credit for training carried out it will be necessary for reports of award of certificates, or completion of tests, etc., to be forwarded promptly.

4. This order will be reprinted for posting on Notice Boards.

Training For Ship—Establishment	CPO								PO						LR						S W I M M I N G	E.T.1	E.T.2	MCC	EWC	BWC	AWC	TWC	C E R T I F I C A T E	C O M P E T E N C E				
	Section 1 Part 1		Section 1 Part 2		Section 2				Section 1 Part 1		Section 1 Part 2		Section 2		Section 1 Part 1		Section 1 Part 2		Section 2															
	P	F	P	F	P	F	Seamanship		P	F	P	F	P	F	P	F	P	F	P	F											P	F	P	F
							P	F																										
MELBOURNE ..	9	3	10	2	4	4	—	—	30	6	30	6	—	—	52	24	59	18	60	66	—	8	15	10	—	3	4	4	11	4	3			
SYDNEY ..	2	—	2	—	1	2	—	—	3	—	3	—	3	—	17	—	17	—	26	25	—	4	4	1	1	1	6	4	23	4	1			
SUPPLY ..	1	—	1	—	—	3	—	—	6	—	5	—	—	—	19	8	25	3	11	4	—	7	7	—	3	—	5	2	4	2	—			
HOBART ..	—	—	—	—	2	2	—	—	3	—	3	—	—	—	—	—	—	7	12	—	—	1	1	3	—	4	—	2	5	4	—			
PERTH ..	4	—	5	—	3	3	—	—	10	—	9	—	1	2	13	10	17	3	17	24	—	4	11	1	1	—	2	8	3	6	—			
DUCHESS ..	8	—	6	—	1	7	—	3	5	—	5	—	—	—	29	1	31	—	8	30	1	5	2	7	1	—	2	2	6	2	1			
VAMPIRE ..	1	—	—	1	1	3	—	—	14	1	16	—	2	—	52	19	57	4	18	31	1	15	7	2	2	—	2	3	12	2	6			
VENDETTA ..	—	—	—	—	1	4	—	—	11	1	10	—	2	—	20	4	24	3	6	15	1	3	3	1	—	1	—	2	5	2	—			
ANZAC ..	1	—	1	—	—	1	—	—	5	—	5	—	—	1	14	5	13	5	2	11	—	1	—	—	—	—	4	—	—	—	—			
DERWENT ..	1	1	1	—	2	2	1	—	3	—	3	—	—	—	23	15	27	6	11	20	—	2	1	1	—	—	2	4	3	5	—			
PARRAMATTA ..	—	—	—	—	—	1	—	1	—	—	—	—	1	—	—	—	—	—	10	18	—	16	1	—	—	—	1	5	1	—	1			
STUART ..	4	1	5	—	3	1	2	—	2	1	2	—	—	1	21	6	23	2	10	22	2	10	1	—	2	—	1	2	2	8	—			
YARRA ..	1	—	1	—	1	2	—	2	4	—	4	—	2	—	15	1	15	—	5	20	2	3	3	1	2	—	—	2	4	—	—			
MORESBY ..	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	3	3	—	1	1	—	—	—	—	—	—	1	—	—			
DIAMANTINA ..	—	—	—	—	—	—	—	—	1	—	—	1	—	—	3	—	3	—	5	3	1	—	—	—	1	—	—	—	—	3	—			
QUEENBOROUGH ..	2	—	2	—	—	2	—	—	2	—	2	—	—	—	7	—	6	—	3	15	—	2	—	1	—	2	—	5	8	1	—			
IBIS ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	4	—	1	1	—	—	—	—	—	—	—	—	—	—	—			
TEAL ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	1	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—			
KIMBLA ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	3	—	3	—	—	—	—	—	—	—	—	—			
PALUMA ..	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	1	—	—	—	—	—	—	1	—	—	—	—	2	—	—			
GULL ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	1	—	—	—	—	—	—	—	—	—	—	—			
HAWK ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	3	—	—	—	—	1	—	—	—	—	—	—			
BOONAROO ..	—	—	—	—	—	—	—	—	1	—	1	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
ALBATROSS ..	13	—	13	—	15	20	—	—	12	—	11	—	3	—	72	4	61	10	38	44	—	—	10	8	—	—	—	—	—	—	38			
CARPENTARIA ..	—	—	—	—	2	3	—	—	3	—	5	—	7	—	1	—	—	—	7	—	—	—	1	1	—	4	—	—	2	—	—			
CERBERUS ..	17	—	15	—	16	13	1	3	55	2	56	2	12	1	51	14	52	11	23	30	—	2	6	1	—	—	—	1	—	—				
CRESWELL ..	1	—	1	—	—	4	—	—	1	—	1	—	—	—	8	—	6	—	2	7	—	3	3	1	3	—	—	—	—	1	—			
ENCOUNTER ..	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
HARMAN ..	1	—	1	—	—	4	—	—	6	2	7	—	—	—	8	4	10	2	18	53	1	1	5	—	—	—	—	—	—	—	1			
HUON ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
KUTTABUL ..	1	—	1	—	4	—	—	1	5	1	6	1	—	—	22	6	25	3	15	27	—	—	3	4	—	—	—	—	—	—	—			
LEEUEWIN ..	2	—	2	—	—	1	—	—	4	—	4	—	1	—	10	—	9	1	6	12	—	1	—	1	3	—	—	—	—	—	—			
LONSDALE ..	—	—	—	—	3	—	—	—	2	—	2	—	—	—	2	—	2	—	2	2	—	1	—	4	—	—	—	—	—	—	—			
MELVILLE ..	4	—	5	—	2	4	—	—	1	—	1	—	—	—	2	—	2	—	5	13	—	5	3	—	2	—	—	—	—	—	—			
MORETON ..	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
NIRIMBA ..	—	—	1	—	—	6	—	—	2	—	2	—	—	—	12	—	9	1	—	5	—	—	—	6	1	—	—	—	—	—	—			
PENGUIN ..	4	—	4	—	—	6	1	—	12	1	12	2	1	—	10	1	7	4	—	18	—	1	1	1	2	—	—	—	—	—	—			
RUSHCUTTER ..	—	—	—	—	—	—	—	—	3	—	2	—	—	—	1	—	1	—	3	2	1	2	1	—	—	—	—	—	—	—	—			
TARANGAU ..	2	—	2	—	—	1	—	—	2	—	2	—	—	1	2	—	3	—	1	2	—	—	—	—	—	—	—	—	—	1	—			
WARATAH ..	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	4	—	—	—	—	—	—	—	—	—	—	—			
WATERHEN ..	—	—	—	—	1	—	—	—	3	—	3	—	1	—	5	—	5	—	4	2	—	—	1	1	—	—	—	—	—	—	—			
WATSON ..	—	—	—	—	2	2	1	—	4	2	6	—	1	—	4	9	15	—	12	21	—	4	4	18	1	—	—	—	—	—	1			
MULL OF KINTYRE ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
RANASS SINGAPORE ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	1	9	—	—	6	—	—	—	—	—	—	—	—			
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Grand Total ..	79	5	79	3	64	105	7	10	217	17	219	12	38	6	506	132	534	77	346	578	10	97	101	73	29	11	33	43	90	45	57			

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Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

362—Anti-submarine—Sonar Type 189 Series—Cavitation Indicator—Introduction

Navy Order 469 of 1965 is to be amended as follows—

Paragraph 6—

Add new Paragraph 6 (a)—

6. (a) Where space in the SCR is limited, alternative stowage may be selected subject to Sonar 189CC location being free from the possibility of damage from accidental knocks.

(DWE 400/2/333)

(Navy Order 469 of 1965)

UNCLASSIFIED

363—Armament Stores—Cox Gun Equipment—411011 Register

(DCI (RN) 188/1967)

Store concerned . . . Cox Gun Equipment—411011 Register.

2. Information . . . (a) The following Cox Gun sets include 411011 REGISTER, wood—

411222 Bolt/Punch Ammunition Set No. 1;

411235 Bolt/Punch Ammunition Set No. 1.

(b) The manufacturing firm has advised that in future production the register will be made of red polythene instead of wood, as at present.

(c) Polythene registers are acceptable for Naval Service use and will be supplied in the sets from new manufacture under the same store reference number 411011. It is not intended to withdraw wooden registers already held. They should, however, be given priority of use for practice and training purposes.

(d) Where necessary in publications, "wood" will be deleted from the nomenclature.

(DAS 728/67/51)

UNCLASSIFIED

364—Fixed Issuing Prices for Provisions and Victualling Allowances as from 1st July, 1967

The price list for fresh fruit and vegetables which has operated since 1st April, 1967, has been amended.

2. A revised price list, operative from 1st July, 1967, has been distributed to all HMA ships and establishments.

3. Consequent upon the revision of these prices, the following rates of Victualling Allowances per head per day will apply as from 1st July, 1967—

	Ashore \$	Afloat \$
Messes of 50 or less victualled from a separate galley	0.77	0.79
All other messes of 300 or less	0.76	0.77
Messes of more than 300	0.74	0.76
Additional for ships of the Strategic Reserve and for ships deployed with the United States Navy in the Far East	—	0.04
Supplementary "Broadside" messing allowance for HMA ships ANZAC, DIAMANTINA, DUCHESS and QUEENBOROUGH	—	0.02
HMAS MELVILLE	0.79	—
HMAS TARANGAU	0.81	—
Cadet Midshipmen at RANC	0.85	See Paragraph 4
Junior Recruits at Training Establishments		
Apprentices at RANATE		
Australian Sea Cadets attending camps and courses		

4. The allowance of 85 cents per day for Cadet Midshipmen, Junior Recruits, Apprentices and Australian Sea Cadets is increased to 87 cents per day when victualled on board ships undergoing training and messed separately.

5. Navy Order 261 of 1967 is hereby cancelled.

(D of V 903/51/137)

(Navy Order 261 of 1967)

RESTRICTED

365—Mortars—A/S Mortar Marks 3 and 4 Fuzes A/S Mark 2 Mod. 4—Caution

(DCI (RN) 657/1967)

Instances of failure of Fuzes A/S Mark 2 Mod. 4 in Projectiles A/S Mark 3 have occurred due to the expendable lead plug not making good connection in its socket.

2. The expendable lead is restrained on the flat surface of the fuze by a lead clip and, unless this clip is in position and secure, it is possible for the plug to be partially extracted causing faults in operation.

3. Ships fitted with A/S Mortars Marks 3 and 4 are to examine fuzes to ensure that the lead clip is in position and secure and they are also to avoid any strain being placed on the expendable lead before firing.

4. Relevant Handbooks and the Drill book will be amended.

(DWE 707/251/95)

UNCLASSIFIED

366—Naval Stores—Accounting—Bathythermograph Winches and Spares

Bathythermograph winches Catalogue No. 33901 and 33902 and non-pattern winches of 110 volts are to be transferred from Naval Stores (Group Class 0612) to Machinery and Spares (Group Class 3950).

2. The Naval store items listed in the Appendix to this order are spares peculiar to bathythermograph winches and these items are to be dealt with as spare gear in future under Group Class 3950. Catalogue numbers will remain unchanged for identification purposes.

3. Any of these winches or spares currently held on Naval Store charge in HMA ships and commissioned establishments should be transferred in accordance with ABR 4 Article 1812 (1) (e) as follows—

Winches, bathythermograph—to Engineer Officer's List of Equipment, etc.

Spares for above—to Engineering Spare Gear Account and Engineer Officer's List of Equipment, etc.

Associated electrical equipment for bathythermograph winches—to Electrical Officer's List of Equipment, etc., Part I.

Spares for above—to Electrical Spare Gear Account and Electrical Officer's List of Equipment, etc., Part I.

APPENDIX

Spares for Bathythermograph Winches

Old Identification No.	New Identification No.	Description
0231/923-2900	3950/923-2900	Wire
0612/33904	3950/33904	Ring
0612/33905	3950/33905	Drum shaft
0612/33906	3950/33906	Brake check
0612/33907	3950/33907	Brake lining
0612/33908	3950/33908	Brake lining
0612/33909	3950/33909	Ratchet wheel
0612/33910	3950/33910	Stop bracket
0612/33911	3950/33911	Jib head key
0612/33912	3950/33912	Jib head key
0612/33913	3950/33913	Handle socket
0612/33914	3950/33914	Feather key
0612/33915	3950/33915	Feather key
0612/33916	3950/33916	Worm
0612/33917	3950/33917	Brake wheel
0612/33918	3950/33918	Cover flap

Old Identification No.	New Identification No.	Description
0612/33919	3950/33919	Lamp cover holder bracket
0612/33920	3950/33920	Dial
0612/33921	3950/33921	Shaft bearing
0612/33922	3950/33922	Spring washer
0612/33923	3950/33923	Bearing
0612/33924	3950/33924	Cross tie
0612/33925	3950/33925	Cross tie
0612/33926	3950/33926	Side frame
0612/33927	3950/33927	Motor frame
0612/33928	3950/33928	Motor frame (motor side)
0612/33929	3950/33929	Side stay
0612/33930	3950/33930	Deck holt
0612/33931	3950/33931	Deck plate
0612/33932	3950/33932	Side frame (brake wheel side)
0612/33933	3950/33933	Mechanical ratchet
0612/23935	3950/23935	Handle with handle bar
0612/33936	3950/33936	Morse chain assy
0612/33937	3950/33937	Swivel
0612/33938	3950/33938	Cover overall
0612/33939	3950/33939	Counting Gear with bracket
0612/L10228	3950/L10228	Armature 220V DC
0612/L10229	3950/L10229	Armature 110V DC
0612/L10280	3950/L10280	Spares for Motor 220V
0612/L11957	3950/L11957	Bearings for winch
0612/L11995	3950/L11995	Brushes for winch 2½ HP 220V DC
0612/L12002	3950/L12002	Brakes emergency
0612/L14524	3950/L14524	Coil field
0612/L14717	3950/L14717	Chain morse
0612/L21431	3950/L21431	Drive main gear wheel
0612/L21472	3950/L21472	Drive pinion
0612/L24471	3950/L24471	Handles
0612/L28904	3950/L28904	Motor electric GEC 25 HP 440V 6.3 850 RPM
0612/L41571	3950/L41571	Seal rotary shaft
0612/L41596	3950/L41596	Spares for controller 440V
0612/L41597	3950/L41597	Spares for motor 440V
0612/L41598	3950/L41598	Spares controller 220V
0612/L45330	3950/L45330	Tablet, operations
0612/L49449	3950/L49449	Weight, leads spares for HD winch

(DSAP 518/52/359).

UNCLASSIFIED

367—Naval Stores (General)—Introductions—Group Class 6260—
Catalogue No. 66-025-9362—Floodlight—Air Turbo—Atlas
Copco Type FW 15

The following item has been introduced for use in the RAN—

Class/Group	Catalogue No.	Description	Acctg. Class.
6260	66-025-9362	Floodlight—Air Turbo	P

2. *Uses*—For use in illumination of fuel tanks during cleaning and wherever extra safety and ventilation are required.

3. *Precautions*—The floodlight is not to be used in AVGAS Compartments until such time as proper tests and evaluation have been carried out to determine whether the unit may be safely operated in these compartments.

4. Allowances of the floodlight are as follows—

HMAS MELBOURNE	..	2 No.
HMAS SYDNEY	..	2 No.
HMAS SUPPLY	..	2 No.
HMAS STALWART	..	4 No. (2 No. for HMAS STALWART 2 No. for Escorts)

Fleet Maintenance Party, 5 No.
Garden Island
Williamstown Naval Dockyard 4 } For loan to ships alongside
No.

5. Demands should be lodged with SNSO, Sydney, in accordance with the scale of allowances set out in Paragraph 4 above. Supply to HMAS STALWART will be made as part of the first outfit of stores.

6. The following range of consumable spares should be demanded for each floodlight held—

Group/Class	Catalogue No.	Description	MFR. Ref. No.	Qty.
3110	66-026-4795	Bearing, Ball Annular	4910 0275	1 No.
5330	66-026-4787	Seal, Rubber Channel	4910 0291	1 No.
6260	66-026-4792	Spring, Helical Compression	4910 0272	1 No.
5970	66-026-4793	Insulator, Bushing	4910 0247	1 No.
6260	66-026-4791	Spring, Helical Compression	4910 0260	1 No.
6260	66-026-4789	Sprainer, Element Sediment	4910 0256	1 No.
5330	66-026-4786	Washer, Non Metallic	4910 0270	1 No.
6240	66-026-4796	Lamp, Incandescent	4910 0347	1 No.

7. The undermentioned items are not being allowed as spares, but have been catalogued as follows and will be available from SNSO, Sydney, as replacements—

Group/Class	Catalogue No.	Description	MFR. Ref. No.	Acctg. Class
6115	66-026-4790	Stator, Generator	4910 0231	P
6230	66-026-4788	Lens, Floodlight	4910 0290	C
6260	66-026-4796	Cooling Ring, Incandescent Lamp	4910 0312	C

(DSAP 519/75/92)

UNCLASSIFIED

368—Stores General (Group Class 1420)—Guided Missile Components—Changes of Stock Numbers

The undermentioned stock numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>		<i>Item Name</i>	<i>Superseding Item</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
1420	00-672-8681	Cover Plate, Access	1420	00-056-5056

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old stock number until advice is received that stocks are exhausted.

4. The stock numbers of the undermentioned items have been changed as follows—

<i>Old Stock No.</i>		<i>Item Name</i>	<i>New Stock No.</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
1420	00-672-8681	Cover Plate, Access	1420	00-056-5056

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812 for items enumerated in Paragraph 4 above.

(DSAP 400/70/109)

UNCLASSIFIED

369—Stores General (Group Class 5340)—Miscellaneous Hardware—Changes of Stock Numbers

The undermentioned stock numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>		<i>Item Name</i>	<i>Superseding Item</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
5340	00-619-7556	Turnbuckle Body	5340	00-067-9878

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old stock number until advice is received that stocks are exhausted.

4. The stock numbers of the undermentioned items have been changed as follows—

<i>Old Stock No.</i>		<i>Item Name</i>	<i>New Stock No.</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
5340	00-285-7729	Clamp, Loop	2810	00-285-7729

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812 for items enumerated in Paragraph 4 above.

(DSAP 505/51/135)

UNCLASSIFIED

370—Stores General (Group Class 9510)—Bars and Rods, Iron and Steel—Changes of Stock Numbers

The undermentioned stock numbers have been declared obsolescent and superseded as follows—

<i>Obsolescent Item</i>		<i>Item Name</i>	<i>Superseding Item</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
9510	00-198-7955	Steel Bar, Carbon, Cold Finished	9510	00-596-2016

2. The symbol "O" is to be inserted against all records of the obsolescent item.

3. Ships and establishments are to continue to demand the old stock number until advice is received that stocks are exhausted.

4. The stock numbers of the undermentioned items have been changed as follows—

<i>Old Stock No.</i>		<i>Item Name</i>	<i>New Stock No.</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
9510	00-198-8023	Steel Bar, Carbon, Cold Finished	9510	00-265-1685
9510	00-198-8027	Steel Bar, Carbon, Cold Finished	9510	00-554-9161
9510	00-198-7867	Steel Bar, Carbon, Cold Finished	9510	00-261-5299

5. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812 for items enumerated in Paragraph 4 above.

(DSAP 505/61/255)

RESTRICTED

ANO's 371-383/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
18th August, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A handwritten signature in cursive script, appearing to read 'J. Handau'.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

RESTRICTED

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 372 Short Term Duty Travelling Allowance.
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SECTION 3—OPERATIONAL AND TRAINING

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SECTION 7—CANCELLED LIST

- 383 Cancellation of Navy Order.

Section 2 PERSONNEL

UNCLASSIFIED

371—Malaria—Measures for Prevention and Control

Navy Order 208 of 1965 is to be amended as follows—

Paragraph 1—

Delete and insert the following in lieu—

“All Naval personnel in or about to be posted to malarious areas including South East Asia and the Australian region as defined hereunder, are to be thoroughly instructed in anti-malarial precautions. Medical Officers are to advise and assist in such training.”

Paragraph 6—

Delete and insert the following in lieu—

“Anti-malaria prophylaxis is to be demanded from appropriate AMF sources.”

Paragraph 18—

Delete item 485/7 Insect Repellent Lotion and all reference and *substitute* in appropriate columns—

Pattern—6840-66-023-2942

Item—Insect Repellent, personal application, 3 oz. bottle

D of Q—Each

To be demanded from—AMF

Allowance—1 No. 3-oz. bottle per man per 28 days to be issued in malarious and potentially malarious areas only.

(MDG 327/53/4)

(Navy Order 208 of 1965)

UNCLASSIFIED

372—Short Term Duty Travelling Allowance

The rates of Short Term Duty Travelling Allowance as specified in instruction 209/1 of NPI are varied as follows—

(a) Add new rates for New Zealand to Table A of NPI 209/1 and amend existing rates for Pakistan and South Vietnam as follows—

Country	Currency of Payment	Rates of Payment per Day		
		Lieut., Lieut. (SD) or Relative Rank, Officers of Lower Rank and Sailors	Capt., Cdr., Cdr. (SD) or Relative Rank, Lieut.-Cdr., Lieut.-Cdr. (SD) or Relative Rank	Commodore and Above
New Zealand	\$NZ	13.50	15.50	17.50
Pakistan ..	Rupees	105	110	120
South Vietnam	Piastres	3,500	4,000	4,300

(b) Delete from Table B of NPI 209/1 all reference to New Zealand.

2. The dates of effect of these amendments are 14th April, 1967, for New Zealand and 30th June, 1967, for Pakistan and South Vietnam.

3. NPI 209/1 should be noted pending amendment.

(HPB 252/7/26)

UNCLASSIFIED

373—Vaccination and Immunisation

Navy Order 264 of 1967 is to be amended as follows—

Paragraph 11—

Delete and insert the following in lieu—

“The dates on each certificate are to be recorded in the following sequence—Day, Month, Year, the month in letters, e.g., 10th October, 1967.”

Paragraph 58—

Delete and insert the following in lieu—

“Arrangements that have already been made with State Directors of Tuberculosis for testing and vaccination of new entries are to stand. In addition, however, it will be necessary for Naval Medical Officers to perform the procedure as convenient on serving members and on dependants proceeding outside Australia. BCG vaccine is available through the AMF on normal indent which must be counter-signed by a Medical Officer. It is a requirement before BCG vaccine can be issued that the Medical Officer who is to perform the procedure has had some training or experience in it. Medical Officers-in-Charge are to ensure that at least one Medical Officer under their command has the necessary experience, if necessary attending a State Chest Clinic for the purpose and that thereafter all other Medical Officers attend testing and vaccination sessions in order to obtain such experience.”

Paragraph 67—

Delete and insert the following in lieu—

“The words ‘Combined Cholera El Tor’ and dosage given in mls. are to be written in the approved stamp box prior to application of approved stamp and signature. Certificates are valid for a period of six months beginning six days after the first injection. After re-immunisation validity is reckoned from that date.”

Paragraph 84—

Delete and insert the following in lieu—

“With the exception of yellow fever vaccine (see Paragraph 76) supplies of vaccines should be obtained from the Australian Military Forces in the usual way, ordering by the Commonwealth Serum Laboratory catalogue. Quantities and sizes of containers ordered must be chosen to effect maximum economy and minimum wastage.”

(MDG 327/54/87)

(Navy Order 264 of 1967)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

374—Films and Filmstrips—Instructional—Title—“EB Insert Method of Welding Steam Pipes”—RAN Catalogue No. L60215

A copy of the instructional film “EB Insert Method of Welding Steam Pipes” RAN Catalogue No. L60215 has been obtained and will be held in the RAN Film Library, Sydney, for issue on loan as requested.

2. This instructional film demonstrates the welding of high pressure steam pipes using the EB (Electric Boat) Insert Method.

(DNS 519/56/465)

UNCLASSIFIED

375—Recovery of Personnel from the Sea

It has been decided that the primary means of recovering men overboard, in ships up to and including DDG's, will be by the Swimmer of the Watch method. The method is described in the Annex.

2. This method has been introduced in the interests of safety, speed and efficiency; it requires the minimum of personnel and equipment. Care must be taken that its introduction does not reduce the standard of boatwork at sea. To this end, present and future design boats, except those in DDG's, will retain their current simultaneous slipping facility. The state of readiness at which boats should be kept at sea will depend on the prevailing circumstances, or as directed by an OTC/OCE.

3. Although ships larger than DDG's will continue to employ sea-boats as the primary means of rescue, trials are being progressed with a view to the possible adaption of the swimmer method of recovery.

ANNEX

Swimmer Recovery Method

Equipment

The following equipment will be supplied without demand to the ships listed in Paragraph 7—

- (a) 50 fthm $1\frac{1}{2}$ -in. terylene (recovery line).
 - (b) 50 fthm $\frac{1}{2}$ -in. terylene (second swimmer's line).
 - (c) 2 in No. lightweight reels for the recovery and swimmer's lines.
 - (d) 1 in No. lightweight, 7-lb., positively buoyant helicopter style strop.
2. Additional items of equipment will be required from existing on board stocks, i.e.—
- (a) 1 in No. Pattern 11/L1 Quick Release Belt (negative weights).
 - (b) 1 in No. Pattern 110/L1 Knife.
 - (c) 1 in No. Pattern 112/L1 Sheath, Knife.
 - (d) 2 in No. L90108 to L90128 Wet Suits.
 - (e) 2 in No. Pair Pattern 3386/L1-L3 Fins Swim.
 - (f) 2 in No. Type 50N Life-jackets.
 - (g) Snatch Blocks as requisite.

Method of Recovery

3. The following method is to be employed—

- (a) Two swimmers of the watch are detailed, the first being dressed in Action Working Dress and a Type 50N life-jacket. (In cold climates, a Wet Suit may be used. It is unrealistic to expect swimmers to be dressed in wet suits for 4 hours in the tropics.) The second swimmer is to dress into a wet suit whilst the ship is manoeuvring.
- (b) On order from the bridge, after "man overboard", one swimmer jumps into the water and supports or stays with the man (hereafter termed the patients).
- (c) The ship immediately manoeuvres to within 50 yards of the patient in the water and the second swimmer, attached by a $\frac{1}{2}$ -in. terylene line to a quick-release belt, swims to the man (patient and first swimmer) with a 7-lb. positively buoyant, lightweight helicopter strop attached to a $1\frac{1}{2}$ -in. terylene line.
- (d) The strop is placed on the patient and all three men are hauled back to the ship's side, where they are hoisted inboard one at a time in the strop or they climb a scrambling net or jumping ladder.

4. If two men fall overboard at the same time, one patient (normally the one more distressed) is given the strop by the second swimmer and is accompanied in by the first swimmer. The second swimmer on the $\frac{1}{2}$ -in. line stays with the other patient until the return of the first swimmer with the helicopter strop and $1\frac{1}{2}$ -in. line, when the procedure in 3 (d) above is carried out.

5. A convenient way of hoisting the patient inboard is to rig a snatch block at a davit head to take the recovery line.

Personnel

6. The following personnel will be required—

- (a) Petty Officer of the Watch on Deck (in charge).
- (b) 2 swimmers—preferably divers or CD's.
- (c) 1 swimmer's attendant.
- (d) 1 patient's attendant.
- (e) Recovery line handling party (minimum of 6) (alternatively, a winch could be used to reduce numbers).

Ships Affected

- | | |
|-------------------|-----------------|
| 7. HMAS PERTH | HMAS STUART |
| HMAS HOBART | HMAS DERWENT |
| HMAS BRISBANE | HMAS PARRAMATTA |
| HMAS VENDETTA | HMAS YARRA |
| HMAS VAMPIRE | HMAS TORRENS |
| HMAS DUCHESS | HMAS SWAN |
| HMAS DIAMANTINA | HMAS ANZAC |
| HMAS QUEENBOROUGH | HMAS MORESBY |
| HMAS KIMBLA | HMAS PALUMA |
| HMAS CURLEW | HMAS SNIPE |
| HMAS IBIS | HMAS TEAL |
| HMAS HAWK | HMAS GULL |
- } When in commission

(DTWP 177/1/65)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

376—Ammunition—Annual Practice Allowance

The approved practice allowance of ammunition for HMA ships as shown in Table A to this order, is promulgated for information and guidance. These allowances apply from the date of this order.

2. The allowances for ships guns are calculated as those necessary to work up and maintain an operational standard of efficiency in a fully commissioned ship with access to adequate target facilities. Wasteful expenditure of ammunition when these conditions do not apply must be avoided, but it is of prime importance that guns (other than those which are packaged) are fired at sufficiently frequent intervals to ensure that they function correctly and that the crews are efficient.

3. Expenditure of ammunition may be adjusted between ships mounting guns of the same calibre at the discretion of the Flag Officer Commanding, HM Australian Fleet. The total allowance for the RAN should not normally be exceeded without prior Naval Board approval, but the Flag Officer Commanding, HM Australian Fleet, may, at his discretion, authorise minor additional expenditure where circumstances indicate the need for it. Typical occasions where additional expenditure would be justifiable are—

- (a) Change of key member of Control Team.
- (b) Introduction of some recently authorised control procedure.
- (c) Preparation for a temporary operational NGS commitment.
- (d) Training of NGS air or ground spotters from other services or SEATO forces subject to verification that adequate non-firing instruction has been given.

4. When authorising additional expenditure, the resultant wear and consequent barrel-changing requirement is to be borne in mind.

5. Except as stated in Paragraph 6 below, ships are normally to carry three months allowance of practice ammunition stowed below in main magazines, the service outfit being reduced if necessary. Ships are authorised to demand and embark an additional three months allowance of practice ammunition (making six months in all) when considered necessary, but not at the expense of the stowage of the service outfit. Where starshell for practice is taken from outfit, the outfit is not to be allowed to fall below 50 per cent.

Work-up Expenditure

6. Ships working-up will expend ammunition at much above the average rates. The full requirements for work-up are to be embarked at the completion of refit, the service outfit being reduced as necessary.

Ships on the Two Year Cycle

7. The allowances for 5-in., 4.5-in. and Close Range Ammunition contained in Tables A and C1 provide approximately 6 months allowance for the work-up, and a monthly allowance thereafter, which ceases on the day pre-refit trials commence. Practice ammunition not expended during the work-up may be used later in the commission, and it will normally be possible to maintain a small reserve for weapon

training and post mid-cycle docking shakedown periods. Ships are to maintain a graphical record of ammunition allowed and expended, using a separate sheet for each type of ammunition. In exceptional circumstances ships may expend up to two month's allowance ahead of time, but if expenditure above this level is required application is to be made to the Flag Officer Commanding, HM Australian Fleet.

Expenditure for Training Gunnery Training Classes

8. Ammunition for training classes from the Gunnery School may be expended in accordance with the Gunnery Training Manual. This ammunition will not be taken from the annual practice allowance.

Allowances

9. Details of allowances are contained in the following tables in Appendix A—

Table A—Allowances for 5-in. and 4.5-in. guns.

Table B—Allowances of Seacat Missiles.

Table C—Allowances for Close Range Guns—

- 1—Ships on the two year cycle.
- 2—Ships not on the two year cycle.
- 3—Patrol boats.

Table D—Annual Allowance of Rocket Flares.

Table E—Annual Allowance of Small Arms Ammunition for RAN Officers and Sailors.

10. The allowances of Tartar Missiles for DDG's are promulgated separately in Confidential Navy Orders.

TABLE A
Allowance for 5-in. and 4.5-in. Guns
(Ships on the Two Year Cycle)

Class of Ship (Number of Guns)	DDG (2)		Darings (6)		Type 12 DE (2)	
	Trials and Work Up	Monthly	Trials and Work Up	Monthly	Trials and Work Up	Monthly
SU Practice ..	200	32	300	48	100	16
AA Practice ..	360	60	504	84	168	28
NGS Practice ..	60	10	72	12	60	10
Starshell ..	18	3	48	8	48	8
RE/S and RE/X ..	—	—	20	4	20	4

Notes—

(a) Surface Practices (SU (P) or SU (D) shell)—

- (i) In exceptional circumstances, such as when the sea state may preclude the successful spotting of the fall of shot by radar in a pre-action calibration, HE fuzed shell may be substituted for up to 20 per cent of the SU practice allowance.

- (ii) The allowance of nine rounds per gun for type 900C NVME calibration is not included in these allowances.
- (iii) Subject to the availability of stocks, ships may exchange 25 per cent of the practice allowance for an equal quantity of AA practice ammunition.

(b) AA Practices (AA (Practice) shell)—

- (i) HE Shell may be substituted for up to 10 per cent of the AA practice allowance for special firings when circumstances permit, but never when engaging a pilotless target aircraft.
- (ii) In order to conserve stocks of UC Ammunition, non-UC type is to be used for practice firings as far as possible when using other than VT fuzes.

(iii) VT fuzes for practice firings to be used to the following scale—

Ship	TM	N97	N80
Daring ..	10	74	420
Type 12 ..	3	25	140

(c) NGS Practices (HE Fuzed DA 230)—

- (i) Marker shell may be substituted for up to 25 per cent of the HE Allowance.
- (ii) Practice SU Shells are to be used in lieu of HE at certain NGS ranges (e.g., Fairfax Island, Pulo Aur).
- (iii) 150 additional HE rounds are allowed annually throughout the Fleet for the training of aircrew in Naval Gunfire Support spotting on the Australia Station. Ships detailed for these firings may apply to FOCAF for an allocation from this allowance if their own NGS allowance has been expended.

TABLE B
Allowance of Seacat Missiles

Type of Ship (No. of Systems)	Type of Firing and Missile	Allowance for Firing	Additional Spare Missiles Allowed to be Embarked	Total to be Supplied
Type 12 DE (1)	Work-up—			
	Practice Missiles ..	7	2	9
	Warhead Missiles ..	1	1	2
	Continuation Training—			
	Practice Missiles ..	2	1	3

Notes—

- (i) All unfired missiles are to be landed immediately the firing programme has been completed.
- (ii) For work-up firings four missiles are provided for each aimer.

- (iii) For continuation firings 2 missiles are allowed per system for each six month period starts six months after completion of the Seacat work-up. The distribution of these 2 missiles amongst aimers is a matter for local discretion.
- (iv) It is intended that 1 per cent of total stocks of missiles will be fired for proof each year. They will be allowed in lieu of practice missiles of the normal allowance for continuation training. Ships will be informed when they are required to carry out proof firings.

TABLE C1
Allowance for Close Range Guns
(Ships on the Two Year Cycle)

Types of Cartridge	QF 40/60 Allowance per Gun	
	Trials and Work-up	Monthly Thereafter
SU and AA practice cartridges, HE fuzed, fitted tracer igniter	250	40
Cartridges, practice, weighted and plugged, fitted tracer igniter	(75)	(12)
Cartridges, BU Shot	50	8

TABLE C2
Allowance for Close Range Guns
(Ships Not on Two Year Cycle)

Types of Cartridge	QF 40/60 Annual Allowance per Gun
SU and AA practice cartridges, HE fuzed, fitted tracer igniter	500
Cartridges, practice, weighted and plugged, fitted tracer igniter	(150)
Cartridges, BU Shot	100

TABLE C3
Allowance for Close Range Guns (Patrol Boats)

Types of Cartridge	Annual Allowance per Gun	
	QF 40/60	0.50-in.
SU and AA practice cartridge, HE fuzed, fitted tracer ignition	480	—
Cartridges, practice, weighted and plugged, fitted tracer ignition	(150)	—
Cartridges 0.50-in. Browning Ball M2 Tracer M1 linked 4 : 1	—	3,000

Notes—

- (a) SU and AA practice cartridges, HE fuzed—
- (i) Ton Class Minesweepers (and Patrol Boats) may draw up to 400 rounds per gun additional to normal allowance for work-up and continuation training prior to service in the Strategic Reserve.
- (ii) Pilotless Target Aircraft are never to be engaged with HE shell.
- (b) Break-up Shot. Except when special barrels are provided no barrel is to fire more than 200 rounds of Break-up Shot in any one year.

TABLE D
Annual Allowance of Rocket Flares

Ships fitted with launchers are allowed 60—2-in. rocket flares per year.

TABLE E1
Annual Allowance of Small Arms Ammunition for RAN Officers and Sailors

Weapon	Personnel	Allowance
.303-in. rifle	100 per cent officers and sailors	45 ball
or		
7.62-mm.	50 per cent sailors(c)	45 ball(c)
.303-in. LMG or 7.62 L2A1	10 per cent sailors	56 ball (up to 25 per cent tracer)
.45-in. Thompson	50 per cent sailors(c)	56 ball(c)
S/M gun	100 per cent officers plus 10 per cent sailors	18 ball
	100 per cent officers plus 50 per cent sailors	18 ball(c)
.22-in. rifle	100 per cent officers and sailors	50 ball (see Note (b))
9-mm. Owen S/M gun	50 per cent sailors(c)	56 ball(c)

See Note (c) for Ton Class Minesweepers.

TABLE E2
Blank Ammunition

HMA ships MELBOURNE and SYDNEY	1,000 rounds per year
HMA ships SUPPLY, EMS, DDG's, Darings and Type 12's	500 rounds per year
Other ships	250 rounds per year
HMAS CERBERUS	2,000 rounds per year
HMAS LEEUWIN, NIRIMBA, ALBATROS and WATSON	1,000 rounds per year
Other establishments	500 rounds per year

Notes—

- (a) For RAN Officers and sailors who carry out the annual range course, allowances are laid down in BR 1920 (b) (10) and are to be used instead of those laid down above, for the personnel concerned.

(b) The allowance is 125 for trainees at—

- (i) HMAS CRESWELL (RANC).
- (ii) HMAS NIRIMBA (RANTE).
- (iii) HMAS LEEUWIN (JRTE).
- (iv) HMAS CERBERUS (JRTE).
- (v) HMAS TARANGAU (PNG DIVISION).

(c) Ton Class Minesweepers may draw the allowance shown in addition to the normal scale prior to, and during Strategic Reserve Service.

(DTWP 725/252/19)

UNCLASSIFIED

377—Davits—Destroyer (Welin) Type—Fitting of Warning Talley to the Davit Arms

Destroyer (Welin) Type davits and the associated mechanism can be badly damaged by incorrect operation.

2. The attention of all concerned is directed to the importance of ensuring that, when the turning gear is being operated, the davit arms move together and are kept in line with each other.

3. A defect item is to be raised for ships concerned to have an engraved warning talley as illustrated below secured to the back of the gripping pad bracket on each davit. Talley plate to be 9-in. long by 6-in. wide.

WARNING

DAVITS MUST BE TURNED IN AND OUT TOGETHER AND FORE AND AFT GUYS MUST BE MANNED.

(ACDC 400/1/292)

RESTRICTED

378—Gun Mountings—4.5-in. Mark 6 Series—Harbour Dynamic Trials

Navy Order 186 of 1967 is to be amended as follows—

Appendix—

Part "A" Fine Tolerance—(4)—Column 4 Allowable Total Misalignment—

Amend " ± 25 min " to read " ± 20 min ".

(DWE 736/251/12)

(Navy Order 186 of 1967)

RESTRICTED

379—GWS Mark 20—Modification to Launcher Net Arm Assembly—Modification No. AN5

(a) *Ships, establishments and authorities concerned* .. Ships so fitted and weapon equipment depots.

(b) *Type and mark of equipment* .. GWS Mark 20 Launcher.

(c) *Part of equipment affected* .. Net arm assembly damper.

(d) *Purpose of modification* .. To prevent twisting of torsion bars by removing oil damping effect from dampers.

(e) *Related modifications* .. This modification cancels GWS 20 modification No. AN3 promulgated by Confidential Navy Order 34 of 1965.

(f) *Nature of modification* .. 1. Elevate the launcher to approximately 90° elevation and the switch off all power to the launcher.

2. Depress Cover Assembly retaining catch and withdraw net assembly to its full extent.

3. Remove drain plug from damper body and allow oil to drain away.

4. Operate the net arms to the limit of their travel to expel as much oil as possible and then replace drain plug.

5. Return the net assembly to its fully-home position which is checked by ensuring that the end of the pointer is flush with the front plate and the catch button is flush with the edge of its surrounding bush.

(g) *Drawings* .. Plate 66 of BR 1139, Part 1.

(h) *By whom to be done* .. Ship's staff.

(j) *Priority* .. Category 1.

(k) *How to be treated* .. As a defect.

(l) *Testing after embodiment* .. The operation of the net arms is to be checked by compressing the net arms and allowing them to fly back under the action of the spring.

(m) *Amendments to handbooks* .. 1. BR 1139, Part 1, Plate 66—
Delete oil filling instructions.

2. DWS 3230 Test B7, Paragraph 18—
Delete " in not less than 1 sec. and not more than 10 secs."

(n) *How to be recorded* .. As modification No. AN5 to GWS 20.

2. Care is to be taken that dampers remain empty and are not re-filled with oil.

(DWE 1224/268/72)

(Confidential Navy Order 34 of 1965)

UNCLASSIFIED

380—Machinery—Pumps—4.5-in. Mark 6 Series Gun Mountings—
Testing of General Service Pumps—Reports

(DCI (RN) 522/1967)

The reports received in accordance with Navy Order 320 of 1966, Paragraph 4, have been analysed.

2. The difference between motor current readings A and B, and D and C, reported by ships, are too random for any logical conclusion to be drawn from the tests.

3. The length of time a pump takes to reach 140° F. also cannot be taken directly as an indication of pump condition. However, it has been noted from the results of the temperature rise tests that the rate of rise of temperature of a defective pump can be significant. Accordingly, when carrying out the test in accordance with Navy Order 320 of 1966, if the temperature rise in any 15 minute period is greater than 20° F., a defect in the pump or system must be considered to exist. Action is to be taken as soon as possible to trace and rectify the defect. If no defect such as a leaky by-pass valve can be found in the system, the pump is to be replaced. If the temperature rise in any 15 minute period is greater than 15° F. a defect must also be considered to exist, but remedial action is not so urgent. Cases where doubt exists are to be referred to the Director of Weapons and Electrical Engineering for decision.

4. Ships and establishments should continue to carry out and report tests in accordance with Navy Order 320 of 1966. Tests on pumps previously tested may show deterioration of a pump which would otherwise be undetected. Reports on pumps with known defects are valuable in building up knowledge of test results and details of known or suspected defects are to be included in the report.

5. Further methods of in situ testing of pumps and motors are being investigated.

(DWE 736/53/28)

(Navy Order 320 of 1966)

UNCLASSIFIED

381—Naval Stores—Introductions—Group Class 0557—
Catalogue No. 519-8799—Stroboscope

The following item has been introduced—

NATO			Description	Denom.	Acctg. Classn.
Supply Classn.	Group Class	Catalogue No.			
6625	0557	519-8799	Stroboscope C/W carrying case . .	No.	Permanent

This item was formerly known as "Strobflash, Dawe Type 1209" and identified as Catalogue No. 197383.

2. This instrument is introduced primarily to enable dockyards, maintenance ships, shipbuilders and contractors to set up and calibrate water flow indicators in weapon equipment cooling systems. It can, however, also be used for the study of rotating, vibrating and reciprocating machinery and for the measurement of speed.

Technical Description

3. A transistor multivibrator circuit is used to provide a pulsed output, the repetition rate of which is controlled by a potentiometer through a slow motion drive from the front panel. This output is differentiated and used to drive a bistable circuit to produce pulses of constant energy. These pulses are fed to an analogue frequency meter calibrated directly in flashing rate. The bistable circuit is used to produce a pulse train which is fed to an amplifier driving a transformer, the output of which consists of pulses of several kilovolts amplitude used to trigger the flash tube.

4. The flash tube is a Xenon filled discharge tube, connected across a capacitor, which is charged to a voltage below that required for the breakdown of the gas. On the application of the trigger pulse, breakdown is initiated and a short pulse of high intensity white light is produced. The discharge capacitor recharges before the application of the next trigger pulse and the operation is repeated.

5. Flashing rates of 300 to 15,000 per minute are covered in three overlapping ranges, with an accuracy of ± 1 per cent of full scale deflection of the frequency meter. Speeds of up to 150,000 rev./min. may be measured indirectly.

6. Facilities are provided for switching the internal oscillator out of circuit and triggering the stroboscope from an external source. In this case the repetition rate of the input is indicated on the meter. Another switch position selects a flashing rate equal to the mains supply frequency.

7. The flash duration is 5 to 10 microseconds and power supply of 24 watts of 110/115 or 200/250 V, 50/60 c/s is required.

8. The instrument is approximately 9-in. \times 8-in. \times 8-in. and weighs 8 lbs.

9. Allowances are as follows—

Garden Island Dockyard	..	..	..	1 No.
Williamstown Dockyard	..	..	..	1 No.
HMAS STALWART	..	..	..	1 No.
HMAS CERBERUS	..	..	..	1 No.
HMAS NIRIMBA	..	..	..	1 No.
HMAS PLATYPUS	..	..	..	1 No.

10. Supply will be effected by the appropriate storing authority, without demand, when stocks become available.

(DSAP 519/69/369)

UNCLASSIFIED

382—Naval Stores—Miscellaneous—Class Group 0252—Blowlamps
and Brazing Apparatus—Testing

(DCI (RN) 171/1965)

Existing instructions provide for the containers and hoses, if fitted, of brazing apparatus, to be pressure tested by contractors prior to delivery and for the date of the test and the pressure applied to be recorded on a metal plate soldered to each container. Items in SNSO Sydney's stocks are subsequently to be re-tested as follows—

- Before issue to HMA ships and establishments.
- Before being taken into stock after repair.
- Every 12 months from the date of the last test.

The date of each test and the pressure applied are to be recorded on the metal plate.

RESTRICTED

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2. It has been decided that the testing before issue shall be discontinued providing the item concerned was tested within the twelve months immediately preceding the date of issue from stock. It is essential, therefore, to check the date of the last test in every instance.

3. After issue from SNSO Sydney's stocks, the instructions in BR 3000 (Marine Engineering Manual), Article 0637, are applicable.

(DNS 506/51/336)

Section 7

CANCELLED LIST

UNCLASSIFIED

383—Cancellation of Navy Order

The conditions of service promulgated in Navy Order 277 of 1966 have now been included in ABR 5020.

2. Navy Order 277 of 1966 is hereby cancelled.

(HPB 252/201/36)

(Navy Order 277 of 1966)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
28th August, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A handwritten signature in cursive script, appearing to read "H. Handau".

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

384—Eyesight and Colour Perception Standards

The following are the standards of eyesight and colour perception for personnel of the Permanent and Citizen Naval Forces. To avoid confusion the following abbreviations are always to be used when referring to these standards—

- (a) NES—Naval Eyesight Standard.
- (b) NCPS—Naval Colour Perception Standard.

2. The standards of both eyesight and colour perception for members of the Citizen Naval Forces are the same as those for members of the Permanent Naval Forces.

3. The eyesight requirements for officers are shown in Section III. The cases of officers whose eyesight falls below the standard for their branch are to be referred to the Medical Director-General on Form AF Med. 23.

4. The eyesight requirements for sailors are shown in Section IV. The minimum permissible standard for a serving sailor is the re-engagement standard for his particular branch. The cases of sailors whose eyesight falls below the re-engagement standard for their branch are to be referred to the Medical Director-General on Form AF Med. 23.

5. This order replaces the Handbook of Naval Eyesight and Colour Perception Standards and contains the following sections—

- Section I—Procedure for Testing Eyesight.
- Section II—Procedure for Testing Colour Perception.
- Section III—Eyesight Requirements for Officers.
- Section IV—Eyesight Requirements for Sailors.
- Section V—Summarised Table of Naval Eyesight Standards.
- Section VI—Special Requirements.
- Section VII—Supply of Spectacles and Contact Lenses.
- Section VIII—Glossary of Terms.

Section I—Procedure for Testing Eyesight

Testing of Eyesight—Eyesight is to be tested in the first place without glasses, and, secondly, with glasses, if possessed by the candidate. The Medical Officer is personally to apply the tests and satisfy himself that the candidate is not wearing contact lenses. Examining Medical Officers are to enter in the appropriate box of Form AF Med. 1 (medical examination record), the vision both near and distant, and colour perception standard.

2. **Distant Vision**—Distant vision is to be determined either by the Illuminated Roller Model Vision Acuity Testing Charts or by Snellen's Card Test Types with standard illumination.

Note—Test cards should not be left permanently exposed as they become discoloured and also the lettering may be memorised by prospective candidates.

3. **Near Vision**—Near vision is to be tested using Times Roman Test Type, each eye being tested separately, and should be recorded to read N5 EE and N5 one eye, N6 the other eye. The test card should be well illuminated with natural or artificial light, and held by the candidate at a distance of 14 inches from the eyes.

4. Manifest Hypermetropia—

- (a) A candidate whose visual acuity falls within standards 1 or 2 is to have a 2 dioptre positive sphere placed in front of each eye in turn. If he can still read the chart to the same line as before, manifest hypermetropia of more than 2 dioptres is present and his eyesight standard must be downgraded to 3 or below.
- (b) A candidate who fails the above test, or whose visual acuity falls within standards 3–6, is to have the same test performed with a 5 dioptre positive sphere. If he can still read the chart to the same line as before, manifest hypermetropia of more than 5 dioptres is present and his eyesight standard is 7 or worse.
- (c) All candidates who fail the test in (b) above, or whose visual acuity is in standard 7, are to be referred to a Naval Consultant Ophthalmologist for full refraction.

5. **Alternating Concomitant Squint**—Personnel placed in Naval Eyesight Standard 1 to 5 should possess binocular vision. Personnel with alternating concomitant squint may be placed in Naval Eyesight Standards 6 and 7 provided that the squint is acceptable cosmetically and the vision in each eye can be corrected to 6/6, 6/12. The presence or absence of a small angle squint should be tested for especially as follows—

The candidate is requested to look steadily at the examiner's right eye. The examiner observes the candidate's left eye and passes an opaque material before the candidate's right eye. The examiner notes whether any movement occurs at the moment of fixation of the candidate's left eye. If no movement is noted then the patient must be binocular, but if a re-fixation movement is noted then a small angle strabismus is present.

Similarly, while testing the candidate's right eye, the examiner directs his attention to the right eye of the candidate whilst covering the candidate's left eye. No movement should be noticed in the right eye; if a re-fixational movement is seen then a small angle strabismus is present.

Any doubtful cases are to be referred to the Naval Eye Specialist.

6. The test in Paragraph 4 is to be carried out before the sailor is allocated to his branch.

Section II—Colour Perception

Colour perception is to be determined by Ishihara plates and the Edridge Green Lantern until replaced by Pseudo-isochromatic plates and the Farnsworth Lantern for which operative instructions will be promulgated separately.

2. The Ishihara test is a preliminary test only, and is not to be regarded as a Naval Colour Perception Standard (see Paragraph 5).

3. The results of this test are to be recorded in the appropriate box of Form AF Med. 1 as "Pass" or "Fail".

4. **The Ishihara Test**—This preliminary test aids the examiner by indicating the presence of a defect of colour perception. Failure to give a perfect result in this test does not, in itself, mean the man is unfit for full Naval duties as a watchkeeper, but it demands particular care on the part of the examiner in the succeeding lantern test. A pass does not guarantee normal colour perception—

- (a) *Method of Testing*—The Ishihara plates are to be shown in good daylight, which should, if possible, come directly through a window from the open sky and not by reflection from the roofs and walls of houses; they should be held at a distance of not less than 30 inches from the candidate who should be asked to write down the figures which he sees on the cards and to sign his name at the end of the list. Two or three seconds are sufficient time to allow for viewing each plate.
- (b) The Ishihara book is not to be handled by the candidate; the plates are not to be marked in any way and are to be turned over by the examiner. The plates should not be touched as this will cause eventual discolouration. When not in use the book is to be kept in a light-tight cover under lock and key. Soiled and unserviceable books are to be returned to the Medical and Dental Store Officer for scrutiny and replacement.
- (c) *Assessment of the Result of the Ishihara Test*—If he makes no mistakes the candidate probably has normal colour perception. This test does not, however, indicate certain individuals who have difficulty in perceiving the darker red tones, and may fail in a lantern test, the so-called "shortening of the red end of the spectrum". Success in the Ishihara test alone is assessed as "Pass" or "Fail".
- (d) Mistakes made in the Ishihara test generally indicate a defect of colour perception. For Naval purposes the degree of defect must be assessed by means of the Edridge Green Lantern.

5. **The Edridge Green Lantern Test**—Assessment of colour perception standard by the Edridge Green Lantern is to be made as follows—

- Naval Colour Perception Standard 1* To differentiate, red, signal green and white on the smallest aperture at a distance of 20 feet.
- Naval Colour Perception Standard 3* To differentiate, red, signal green and white on the largest aperture at 20 feet.
- Naval Colour Perception Standard 4* To apply to all candidates who fail to pass the test for standard 3.

Note—Naval Colour Perception Standard 2 indicates that the candidate has only been tested on the Ishihara plates and is awaiting a further test on the Edridge Green Lantern when available. It is a temporary indication only until confirmation of either Standard 1 or Standard 3 and is not to be used as a permanent Colour Perception Standard.

6. All candidates are to be examined under the conditions laid down for Naval Colour Perception Standard 1. In the event of their failure in this, they are to be examined under the conditions laid down for Naval Colour Perception Standard 3.

7. **Retesting of Colour Perception**—As colour perception does not alter during life except in rare cases of injury or disease, colour perception should not ordinarily be retested. If the Medical Officer has any reason to doubt the validity of a former test he is immediately to arrange a retest and in cases of doubt refer the case to the consultant Ophthalmologist. Special care is to be taken that the colour perception of Navigators, Watchkeepers, Tactical Operators and Aircrew is within the required standard.

8. In the cases where a test, subsequent to original entry, shows that there is a defect in colour perception rendering an officer or sailor unfit for full duties of his branch, the following action is to be taken—

- (a) *Officers*—A report is to be made to the Commanding Officer of his establishment or ship. The report should then be forwarded with the Commanding Officer's remarks through the usual channels to the Naval Board. No action is to be taken to hold a Board of Survey with a view to invaliding a serving officer, until Naval Board decision has been communicated.
- (b) *Sailors*—A report is to be made to the Naval Board on Form AF Med. 23 which should contain a recommendation for one of the following courses—
- (i) retention in Branch and restriction of duties to those in which the defect will not be a source of danger;
 - (ii) transfer to a Branch in which the defect will not interfere with efficiency and promotion;
 - (iii) survey and invaliding.

It is to be noted that (i) could not be considered for a junior sailor early in his career, (ii) must depend on the sailor himself being willing to transfer and (iii) although the correct action, should be regarded as a last resort.

Section III—Eyesight Requirements for Officers

PART 1—ON ENTRY

General List

(a) *Seaman Branch*—

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Cadet Midshipman Junior Entry	6/6, 6/12	N5 EE	1
Cadet Midshipman Senior Entry	6/9, 6/12	N5 EE	1

- (i) Any defect of form vision must be solely due to error of refraction and be capable of correction to 6/6. Refractive error limits (under homatropine) for all candidates—
- Total hypermetropia—2.5 dioptries in one eye.
3.0 dioptries in the other.
- Astigmatism—0.75 dioptries in one eye.
1.0 dioptre in the other.
- Myopia—No myopia or myopic astigmatism is allowable.
- (ii) Fields of vision must be normal to confrontation tests.
- (iii) Binocular vision should be present.

(iv) Heterophoria (tested with Maddox rod at 6 metres) must not exceed—

Eso and Exophoria—6 prism dioptres.
Hyperphoria—1 prism dioptre.

(v) Strabismus or any chronic disease of the eyes or eyelids will disqualify.

(b) *Engineering, Supply and Secretariat and Instructor Branches—*

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Cadet Midshipmen Junior and Senior Entry	Less than 6/60, 6/60 correctable to 6/6, 6/12	With glasses N5 one eye N6 the other eye	3

(i) Refractive error limits (under homatropine)—

Total hypermetropia—5.0 dioptres in either eye.
Astigmatism—The difference between axes must not exceed 5.0 dioptres.

Myopia—3.0 dioptres in either eye for Junior entry.
4.0 dioptres in either eye for Senior entry.

(ii) The fields of vision must be normal to the confrontation test.

(iii) An alternating concomitant squint with small deviation will not debar from entry provided that the squint is acceptable cosmetically.

(iv) If binocular vision is present, heterophoria (tested with Maddox rod at 6 metres) must not exceed—

Eso and Exophoria—6 prism dioptres.
Hyperphoria—1 prism dioptre.

Distance and reading glasses are permitted at all times.

(c) *Supplementary List and Topmen—*

(i) Seaman Branch. As for Cadet Midshipman (Senior Entry).

(ii) Engineering Supply and Secretariat and Instructor Branches } Naval Eyesight Standard 7

(d) *Direct Entry—*

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
Engineering Officer	7	3
Supply and Secretariat Officer..		
Instructor Officer		
Medical Officer		
Dental Officer		
Chaplain		
Wran Officer		
RANNS		
University Undergraduates ..		

(e) *Aircrew—*

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Supplementary List— Pilot Observer Midshipmen	6/9, 6/9 The vision in each eye should be correctable to 6/6	NS EE	1

Myopia, myopic astigmatism or squint are not acceptable.

Fundi and media must be normal.

Fields of vision must be normal to confrontation tests.

Refractive Error Limits (without Midriatic)—All Aircrew—

(i) In the better eye—manifest hypermetropia 1.5 dioptres of which not more than 0.75 dioptres may be astigmatism.

(ii) In the worse eye—manifest hypermetropia 2.5 dioptres of which not more than 1.0 dioptre may be astigmatism.

(iii) Ocular Muscle Balance (Pilots Only).

Maddox Rod at 6 metres—
Exophoria 0-6 prism D.
Esophoria 0-6 prism D.
Hyperphoria 0-1 prism D.

Convergence (C) 0-10 cms. Subjective convergence (SC) is used as an aid in assessing (C). The point of binocular breakdown in SC is usually higher up the scale than in C, e.g., C = 5 cms. SC = 13 cms. Where the readings approximate, the ability of the candidate to maintain binocular vision under effort is strong, although the convergence itself may be borderline.

(iv) Accommodation—

<i>Age</i>	<i>Centimetres</i>
17-20	10 -11
21-25	11 -12
26-30	12.5-13.5
31-35	14 -16
36-40	16 -18.5
40-45	18.5-27

(v) Cover Test—Recovery must be rapid.

(f) Promotion from the Lower Deck—

(i) Upper Yardman—As appropriate branch for Cadet Midshipmen (Senior Entry).

(ii) Special Duties List—

	<i>Distant Vision</i>	<i>Near Vision</i>	<i>Naval Colour Perception Standard</i>
Seaman Categories— (G) (T) (TAS), (B) (QDD) (PR), (PT), (C), (CD) ..	6/9, 6/12	N5 EE	1
Airmen (AV)	6/9, 6/12	N5 EE	3 except for ATCO for which NCPS remains 1
	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>	
Engineer } Shipwright } Supply and Secretariat .. } Regulating (REG) .. } Wardmaster } Wran }	7	3	

PART 2—SERVING OFFICERS

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
1. <i>General List—</i> <i>Seaman Branch—</i>		
(a) Officers below the rank of Commander	4 Distance and reading glasses permitted at all times	1
(b) Officers of the rank of Commander and above	5 Distance and reading glasses permitted at all times	1

	<i>Naval Eyesight Standard</i>	<i>Naval Colour Perception Standard</i>
(c) Surveying Officer on first posting	2 Spectacles are not permitted on duty, but may be worn in offices, etc.	1
(d) Navigating Officer on first posting	4 Distance and reading glasses permitted at all times. Two pairs of distant and/or reading glasses are to be issued to any officer who requires them. One pair of each is to be kept on the officer's person at all times, and the second pair is to be kept in a convenient place on the bridge An applicant for specialisation in (N) must therefore possess, as a minimum, the visual standard of NES 4 and NCPS 1 Commanding Officers should ensure that a certificate to this effect signed by the medical officer of the ship or establishment is forwarded with the officer's application When an officer has been selected for the next qualifying (N) course he is to be referred to a Naval Ophthalmic Specialist who is to provide the officer with a certificate to the effect that he possesses the visual standard quoted above. This certificate is to be forwarded to the Captain, HMS DRYAD	1
(e) Other Branches— Engineering } Supply and Secretariat .. } Instructor Officers .. }	7 Distance and reading glasses permitted at all times	3
2. <i>Special Duties List—</i>		
(a) Seaman Categories— C, T, TAS, B, QDD, PR, PT, CD, G	As for General List Distance and reading glasses permitted at all times	
(b) AV	As for General List, Seaman Branch	3 Except for ATCO for which NCPS remains 1
(c) Regulating } Shipwright } Engineering } Supply and Secretariat .. } Wardmaster }	7 Distance and reading glasses permitted at all times	3

	Naval Eyesight Standard	Naval Colour Perception Standard
3. <i>Supplementary List</i> — The visual standard for an officer of the Supplementary List is the same as for an officer of the equivalent rank and category in either the General or Special Duties List.		
4. <i>Other Lists</i> —		
Instructor Officer	7	3
Medical Officer		
Dental Officer		
Chaplain		
Wran Officer		
RANNS		
	Distance and reading glasses permitted at all times	

Section IV—Eyesight Requirements for Sailors

Since all RAN recruits with the exception of Trade Branches, Band Branch and WRANS are allocated to their branches after entry, the minimum entry standard for male recruits is Naval Eyesight Standard 6 and Naval Colour Perception Standard 3.

2. The following are the minimum standards for the various branches and categories on first allocation, during service and on re-engagement or re-entry—

	Naval Eyesight Standard		Naval Colour Perception Standard
	On Allocation to Branch	Re-engagement or Re-entry	
<i>Seaman</i> —			
QMG, SR, CD, COX, PT	2	4	1
UW, RP, UC, FC, WM	4	6	1
<i>Communication</i> —			
TO	2	4	1
RO, ROS, DO, LIN	6	7	3
<i>Naval Airman</i> —			
AH (see Note 1)	2	4	3
SE, Phot, Met	6	7	3
All other branches and apprentices (see Note 2)	6	7	3
Wran Radar Plotter	6	7	3
All other Wrans	7	7	3
MTD	7	7	3

Note 1—Naval Airmen in Colour Perception Standard 3 may be accepted for initial training as Aircraft Handlers—

- (i) On allocation to Branch they will be required to pass a trade test involving the reading of groups of coloured lights in a simulated Flight Deck mock up.
- (ii) Sailors with NCPS 3 who pass this test will be recorded as NCPS 3 (PTT).
- (iii) Those who fail the trade test will be required to train for some other category.
- (iv) Sailors with NCPS 3 already trained and employed as Aircraft Handlers may be considered to have passed the test and will not be re-tested unless there is good reason to doubt their efficiency. In such cases they will be required to pass the trade test described above, and should they fail, action in accordance with Paragraph 8 of Section II is to be taken.

Note 2—Sailor recruits for whom Naval Eyesight Standard 6 applies may be entered subject to the following limitations—

- (i) Age not exceeding 16. Myopia in any meridian is not to exceed 1.5 dioptries.
- (ii) Age 16 to 16½. Myopia in any meridian is not to exceed 2.0 dioptries.
- (iii) Age 16½ and over. Myopia in any meridian is not to exceed 3.0 dioptries.

3. Junior Recruits—On Entry—

Unaided Distant Vision	At least 6/9, 6/9
Unaided Near Vision	N5 EE
Naval Colour Perception Standard	1

Note—Specially desirable applicants whose distant vision is at least 6/12, 6/18, or whose Naval Colour Perception is 3 may be recommended to Navy Office for acceptance. In either instance the candidate is to be informed of the limited choice of category and Form AF Med. 1 endorsed accordingly.

Section V—Summarised Table of Naval Eyesight Standards—Eyesight

Naval Eyesight Standard	Distant	Near	Remarks
1	6/6, 6/6	N5 EE	No myopia or myopic astigmatism is allowable. Manifest hypermetropia in either eye not to exceed 2.0 dioptries in any meridian, of which not more than 1.0 dioptre may be astigmatism Fields of vision to be full to confrontation tests
2	6/9, 6/9	N5 EE	As for Naval Eyesight Standard 1

<i>Naval Eyesight Standard</i>	<i>Distant</i>	<i>Near</i>	<i>Remarks</i>
3	6/12, 6/18 .. Each correctable to 6/6	N5 EE ..	Manifest hypermetropia in either eye not to exceed 5.0 dioptres in any meridian. Fields of vision to be full to confrontation tests. Spectacles to be provided and may be worn on duty.
4	6/12 with both eyes together worse eye at least 6/24 with glasses 6/6, 6/12 at least	N5 one eye, N6 the other eye	As in Naval Eyesight Standard 3. Spectacles to be provided and may be worn on duty.
5	6/18 with both eyes together worse eye at least 6/36 with glasses 6/9, 6/12 at least	With glasses— N5 one eye, N6 the other eye	As for Naval Eyesight Standard 3. Spectacles to be provided and are to be worn on duty.
6	6/60, 6/60 with glasses at least 6/12, 6/12 or 6/6, 6/24	With glasses— N5 one eye, N6 the other eye	As for Naval Eyesight Standard 3. Spectacles to be provided and are to be worn on duty.
7	Less than 6/60 in each eye with glasses at least 6/6, 6/24 or 6/12, 6/12	With glasses— N5 one eye, N6 the other eye	Hypermetropia or myopia not to exceed 7 dioptres in any meridian, under homatropine. Fields of vision to be normal to confrontation test. Binocular vision is not required. Glasses are to be worn on duty. An alternating concomitant squint is acceptable provided the squint is acceptable cosmetically and the vision in each eye can be corrected to 6/6, 6/12.

Note—The minimum requirements for each standard of vision are stated in the above table.

Section VI—Special Requirements

Service in Submarines—Officers of all branches and sailors of the Seaman and Communication branches are to possess eyesight standard 3 or better, colour perception standard 1. All other sailors are to possess eyesight standard 4 or better, colour perception standard 3. The wearing of glasses for distant vision when on duty in submarines is not permitted, but reading glasses may be used when necessary.

2. **Divers**—Compressed Air Divers should possess eyesight standard 4, colour perception standard 1 but are not allowed to wear glasses or contact lenses when actually engaged on diving duties. Should a diver (Compressed Air or Clearance) fall below this standard then he is to be considered permanently unfit for diving and be brought forward for interim medical survey.

3. **Colour Perception Standard for Sailors and Apprentices who are Allocated to the Electrical Branch**—Recruits who are allocated to this Branch and who are placed in Naval Colour Perception Standard 3 are to be given a supplementary trade colour perception test in which they are required to match with absolute accuracy the coloured bands on 15 pairs of wires of the DEF 10 series and a number of miniature colour-coded electronic components. The test should be carried out in average room lighting and a single failure is to cause rejection.

(a) A recruit who fails this test but who passed Naval Colour Perception Standard 3 on the Edridge Green Lantern may be accepted for entry to any other branch where Naval Colour Perception Standard 3 is permitted.

(b) Colour Perception in these cases should be recorded in Box 58 of Form AF Med. 1 as NCPS 3 (Passed supplementary trade colour perception test) or NCPS 3 (Failed supplementary trade colour perception test).

(c) These tests are to be carried out in HMAS CERBERUS, LEEUWIN and NIRIMBA.

4. **Sailor Aircrew**—Naval Airman, Aircrewman and Underwater Control—

Unaided Distant Vision .. 6/9, 6/9. The vision in each eye should be correctable to 6/6

Unaided Near Vision N5 EE

Naval Colour Perception .. Standard 1

Section VII—Supply of Spectacles and Contact Lenses

Reading Spectacles—Spectacles for reading and close work may be supplied at public expense for all personnel whose duties require the aid of spectacles for close work, e.g., in offices and radar cabinets.

2. **Distant Vision Spectacles for Constant Wear**—All personnel in Naval Eyesight Standard 3 to 7, except those mentioned hereunder, are permitted to wear spectacles on duty—

Midshipmen JE and SE (Seaman Branch).

Seaman Branch QMG, SR, CD (*see Note*).

Communication Branch TO.

Naval Airman Branch AH.

Submarine Personnel (*see Section VI*).

Note—A diver is not permitted to wear spectacles or contact lenses during any part of a diving operation except as follows—

Tinted optically corrected sunglasses may be worn when prescribed by a consultant Naval Ophthalmologist and reading glasses may be worn when a diver is detailed to record times and events in a diving operation.

3. **Aircrew**—For supply of optically corrected spectacles for flying duties *see* Paragraphs 67 to 76 of Navy Order 220 of 1966.

4. **Supply of Spectacles**—Provided the member is entitled to wear spectacles these will be provided at public expense. One pair of Mark III spectacles with hardened lenses and case, and one pair of civilian type spectacles may be supplied to each officer and sailor where recommended by an Ophthalmic Specialist. Navigating Officers are to be supplied with two pairs each of either distance or reading glasses, as required.

5. The supply of Mark III spectacles is intended to ensure that these will always be available for wear with an anti-gas respirator and this pair is invariably to be kept in the respirator haversack.

6. Approval for the supply of spectacles is in each case to be obtained on Form AF Med. 7, subject to supply being recommended by an Ophthalmic Specialist, who should indicate on Form AF Med. 7 whether the spectacles are required for near or distant vision. Commanding Officers of ships and establishments are authorised to approve of the supply. Any cases of doubt as to eligibility of supply of spectacles at public expense are to be referred to the Medical Director-General for decision, Form AF Med. 7 being completed in duplicate.

7. In cases where supply is approved by the Commanding Officer, one copy of Form AF Med. 7 is to be forwarded to the Medical Director-General after supply has been effected and a receipt obtained from the member.

8. The supply of spectacles at public expense is to be arranged through the qualified opticians under contract with the Department and in accordance with the terms of the contract, unless unnecessary delay would occur in adopting this procedure. In such instances the Commanding Officer is to make satisfactory local arrangements for supply by a qualified optician and is to satisfy himself that the price is reasonable having due regard to the prices obtaining in the district where the purchase is made.

9. When spectacles are required by monocular personnel (or those who possess but one useful eye) to enable them to carry out their duties, arrangements should be made for a lens of unsplitterable glass to be supplied at public expense in Mark III frames. A similar issue is to be made to all Sick Berth Staff, who need to wear spectacles constantly when engaged in nursing mentally ill patients, and to Regulating Branch sailors. When spectacles are prescribed for apprentices, artificers and artisans, arrangements are to be made for lenses of hardened glass to be supplied at public expense.

10. **Contact Lenses**—Contact lenses for serving personnel will only be authorised in special cases by the Medical Director-General on the recommendation of the Senior Ophthalmic Consultant. Full details of the case and the ophthalmic specialist's report are to be forwarded to the Medical Director-General.

Section VIII—Glossary of Terms

Myopia	.. ..	Short Sight.
Hypermetropia	.. ..	Long Sight.
Astigmatism	.. ..	Error in focusing lines at different angles to the horizontal.
Strabismus	.. ..	Squint.
Heterophoria	.. ..	Unbalance of eye muscles not sufficient to cause squint (includes esophoria, exophoria, hyperphoria according to direction of pull).
Dioptré	.. ..	A measure of the power of a lens
		focal length in metres
Fundi and Media	.. ..	Internal structures of the eye.

2. **Visual Acuity Symbols**—The visual acuity standard is expressed as a fraction, of which the numerator (top figure) is the distance at which the subject is tested, and the denominator (bottom figure) is the distance at which a normal person would see as well as the subject.

3. The numerator is standardised at 6 (metres) in RN and RAN practice and 20 (feet) in the RCN and USN. The denominator is similarly expressed in metres or feet according to the practice of the country concerned.

Examples follow (expressed in metres, with equivalent feet in parenthesis)—

$\frac{6}{6} \left(\frac{20}{20} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 6 metres (20 feet)

$\frac{6}{9} \left(\frac{20}{30} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 9 metres (30 feet)

$\frac{6}{12} \left(\frac{20}{40} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 12 metres (40 feet)

$\frac{6}{24} \left(\frac{20}{80} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 24 metres (80 feet)

$\frac{6}{36} \left(\frac{20}{120} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 36 metres (120 feet)

$\frac{6}{60} \left(\frac{20}{200} \right)$ = subject at 6 metres (20 feet) sees as well as a normal person would at 60 metres (200 feet)

Below $\frac{6}{60} \left(\frac{20}{200} \right)$ this notation is not used, as such a person (if without glasses) to all intents and purposes has no useful distant vision.

4. Near vision is expressed on various scales, all based on the size of printed type which the subject can read at the normal reading distance (10 inches). The scale used in the RAN is that approved by the Society of Ophthalmologists, based on ability to read the type face known as "New Times Roman" and expressed as the thickness in millimetres of the major features of the type. Normal on this scale is 0.5 (without glasses) and the minimum acceptable for most purposes is 0.6 with glasses.

5. Navy Orders 47 and 243 of 1967 are hereby cancelled. Navy Order 220 of 1966 is relevant.

(MDG 327/53/143)

(Navy Orders 220 of 1966, 47 and 243 of 1967)



Registered

ANO's 385-388/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
1st September, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 2 PERSONNEL

UNCLASSIFIED

385—Royal Shipwreck Relief and Humane Society of NSW—Awards

The Royal Shipwreck Relief and Humane Society of New South Wales has approved awards to the following sailors in respect of their prompt actions in the rescue of Mr Edmund John Kelly from drowning in Sydney Harbour on 15th April, 1967—

WTR R. E. HARDY, R64162—Bronze Medal.

WTR R. B. WHITBREAD, R63918—Certificate of Merit.

(HPB 38/3/705)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

386—Markers—Man Overboard—Smoke and Light Mark N1

2-No of the abovementioned markers have recently been lost due to incorrect rigging of the lanyards.

2. Rigging of lanyards are to be strictly adhered to in accordance with Navy Order 322 of 1967.

(DWE 728/61/74)

(Navy Order 322 of 1967)

UNCLASSIFIED

387—Naval Stores General (Group Class 5310)—Nuts and Washers—Change of Federal Stock Numbers

The Federal Stock Numbers (FSN's) of the undermentioned items of USA origin have been changed as follows—

<i>Old FSN</i>	<i>Item Name</i>	<i>New FSN</i>
<i>Group Catalogue</i>		<i>Group Catalogue</i>
<i>Class Number</i>		<i>Class Number</i>
5310-00-686-8948	Insulator, Washer	5970-00-686-8948

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

(DSAP 506/51/314)

UNCLASSIFIED

388—Stores General—Pictorial Marking of Handling Instructions for Packaged Goods

It has been decided that the provisions of Australian Standard Z29, PICTORIAL MARKINGS FOR THE HANDLING OF PACKAGES, issued by the Standards Association of Australia should apply in the RAN.

2. The standard covers various marking symbols representing general handling instructions for packaged goods and the method of applying and positioning these symbols on packages.

3. Details of the Standards Association of Australia publication and poster describing the symbols and their use and a list of stencils used for applying the symbols are shown in the Appendix to this order.

4. Demands for the items should be lodged by ships and establishments if and as required, as follows—

Publication and Poster	..	..	..	with SVSO Sydney
Stencils	..	..	..	with SNSO Sydney

APPENDIX

Group Class	Catalogue Number	Description	Denom.	Acctg. Classification
BR	MBR 8801	Publication AS Z29, Pictorial Marking of Handling Instructions for Goods Generally	No.	Not Accountable
STATY	7690-66-026-4757	Chart Instructional, displaying pictorial markings for packages Stencils for pictorial marking of packages—	No.	—
		Figure 1, Fragile—Handle with Care—		
7520	66-026-4736	4-in. size	No.	C
7520	66-026-4737	6-in. size	No.	C
7520	66-026-4738	8-in. size	No.	C
		Figure 2, Use No Hooks—		
7520	66-026-4739	4-in. size	No.	C
7520	66-026-4740	6-in. size	No.	C
7520	66-026-4741	8-in. size	No.	C
		Figure 3, This Way Up—		
7520	66-026-4742	4-in. size	No.	C
7520	66-026-4743	6-in. size	No.	C
7520	66-026-4744	8-in. size	No.	C
		Figure 4, Keep Away from Heat—		
7520	66-026-4745	4-in. size	No.	C
7520	66-026-4746	6-in. size	No.	C
7520	66-026-4747	8-in. size	No.	C

Group Class	Catalogue Number	Description	Denom.	Acctg. Classification
		Figure 5, Sling Here—		
7520	66-026-4748	4-in. size	No.	C
7520	66-026-4749	6-in. size	No.	C
7520	66-026-4750	8-in. size	No.	C
		Figure 6, Keep Dry—		
7520	66-026-4751	4-in. size	No.	C
7520	66-026-4752	6-in. size	No.	C
7520	66-026-4753	8-in. size	No.	C
		Figure 7, Heavy Weight This End—		
7520	66-026-4754	4-in. size	No.	C
7520	66-026-4755	6-in. size	No.	C
7520	66-026-4756	8-in. size	No.	C

(DSAP 401/54/414)



RESTRICTED

ANO's 389-396/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
11th September, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

M. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

389—Motor Transport—Maintenance of Records

Recent audit inspections indicate that Motor Transport records are not being correctly kept.

2. Typical errors and omissions are as follows—

- (a) Forms NMT 1/2 not signed by drivers; Forms NMT 1/2 and 3 not signed by Transport Officers. These forms provide a method of control over the movement and fuel consumption of vehicles. It is important that running returns be examined by a responsible officer each day and, if in order, signed immediately.
- (b) Certificates of Registration not held for vehicles transferred from other establishments.
- (c) Omission of evidence that Supply and Motor Transport Officers have witnessed the quarterly stocktaking of gasoline as required by the Naval Storekeeping Manual, ABR 4, Article 2113 (2).
- (d) Issues of petrol to vehicles belonging to other establishments recorded on Forms AS 149 instead of Forms AD 1220Z as laid down in ABR 4, Article 2106 (A).

3. Commanding Officers are to ensure that the attention of all concerned is drawn to the necessity to comply strictly, at all times, with the instructions concerning Naval Motor Transport and associated stores.

(DSAP 206/1/53)

RESTRICTED

390—RAN Administrative Support Staff—Withdrawal From Singapore

The RAN Administrative Support Staff has been withdrawn from Singapore. RAN personnel in Singapore are no longer borne on the books of HMS MULL OF KINTYRE.

2. Signals and correspondence concerning RAN personnel in Singapore should now be addressed to HMS TERROR.
3. The Signal Address RANASS is cancelled.
4. The instructions promulgated in Navy Order 614 of 1966 concerning the RAN Communication Detachment (RANCD) Singapore, continue to apply.

(D of C 16/201/136)

(Navy Order 614 of 1966)

UNCLASSIFIED

391—Safety—Communication Between Officer-of-the-Watch and Controlling Engine Room or Machinery Control Room*(DCI (RN) 509/1967)*

One of HM ships collided with a jetty because an engine room telegraph jammed at Full Astern. The serious damage which resulted might have been avoided if an emergency order had been broadcast to the engine room.

2. To reduce the risk of collision when an engine telegraph order is passed incorrectly or when a telegraph fails to operate correctly, the following instructions are to be observed by Commanding Officers and Marine Engineer Officers of HMA ships—

- (a) Special Sea Dutymen on the bridge and in the controlling engine room or MCR are to include communication numbers having no other duties to perform.
- (b) The duties of all Special Sea Dutymen in the Marine Engineering department are to be specified in the departmental standing orders.
- (c) Sufficient Special Sea Dutymen are to be provided to enable foreseeable emergencies or breakdowns to be dealt with expeditiously.
- (d) Both the ships Standing Orders and the Marine Engineering department standing orders are to specify the normal and emergency methods of communication between the bridge and the controlling engine room or MCR.

*(CONS 177/201/23)***Section 2****PERSONNEL**

UNCLASSIFIED

392—Instructor Officers—Employment with State Education Departments on Retirement

Navy Order 134 of 1967 gave details of the recognition which State Education Departments would grant to Instructor Officers who wished to resume teaching on leaving the Service.

This order supplements Navy Order 134 of 1967 by detailing the recognition offered by the Queensland Education Department, which is—

- (a) Former Queensland teachers will be credited for their total service, less one year, of certified teaching at HMAS CRESWELL, LEEUWIN, NIRIMBA or CERBERUS.
- (b) Teachers who entered the Navy from other States and who wish to reside in Queensland on leaving the Service, may gain the same recognition as former Queensland teachers provided their teaching qualifications are recognised by the Queensland Education Department.

*(DNES 347/1/12)**(Navy Order 134 of 1967)***Section 3****OPERATIONAL AND TRAINING**

UNCLASSIFIED

393—Sailors Course Programme—1967

Consequent upon the introduction of new course numbers in Navy Order 397 of 1967 a revised version of the Appendix to Navy Order 653 of 1966 is attached.

2. The duration of courses shown is the period specified in appropriate syllabuses and actual course lengths may vary because of leave periods and ceremonial commitments. Training establishments are to report changes in completion dates of courses in monthly training returns (Form AS 3113) or earlier if necessary, stating reasons.

3. Re-engagement categories are currently as follows—

- Group A—4 years.
- Group B—3 years.
- Group C—2 years.
- Group D—1 year.
- Group E—Nil.

Courses are deemed to finish on the Friday of the final week, and the period of service required on completion of a course commences on the following Monday. Re-engagement rules for sailors undergoing courses are laid down in RI Article 0824 as amended by 071F/66.

4. Applications to re-engage are to be forwarded on receipt of appropriate posting notes. Should a sailor posted to a course subject to re-engaging not intend to re-engage, this is to be signalled promptly, in order that a replacement may be posted.

5. The EDP course numbers shown in the Appendix are the designators that will be used to identify each particular course on the introduction of EDP.

6. Further Courses 911850—LSRP will be considered, depending upon the requirement, but because of the increasing difficulty of scheduling these courses, sailors who are eligible for this course are to be encouraged to pass by BTT where possible.

7. Alterations and additions to the course programme will be promulgated by amendments to this order.

8. All current amendments to Navy Order 653 of 1966 have been included in this order.

9. Navy Order 653 of 1966 is hereby cancelled.

<i>Amendment No.</i>	<i>Authority</i>	<i>Date</i>	<i>Inserted by</i>	<i>Date Inserted</i>

APPENDIX

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.	
Recruits ..	910700	Adult Male Recruit Training Course	CERBERUS ..	12	—	15.1.67 2.7.67	120	
						12.2.67 30.7.67		
						12.3.67 27.8.67		
Seaman ..	910710	Junior Recruits ..	LEEWIN ..	48	—	9.4.67 24.9.67	100/200	
						7.5.67 22.10.67		
						4.6.67 26.11.67		
Seaman ..	910300	Artificer Apprentices	NIRIMBA ..	3½ years	—	4.1.67 12.7.67	124	
						5.4.67 11.10.67		
						16.1.67 10.7.67		
Seaman ..	911900	CPOCOX ..	PENGWIN ..	5	D	16.1.67	2-6	
			WATSON ..	3				
			SEA ..	3				
	911910	POQMG ..	CERBERUS ..	PENGWIN ..	19 (4 S'ship)	C	17.4.67 25.9.67	4-10
					2 NB CD			
	911710	ABQMG ..	CERBERUS ..	PENGWIN ..	16	C	Jan. to Mar. incl.— as required	4-10
(4 S'ship, 1 N BCD)								
911920	POCD ..	RUSHCUTTER ..	PENGWIN ..	16	C	10.7.67	4-8	
				4 S'ship, 2 N BCD				
911720	ABCD ..	RUSHCUTTER ..	PENGWIN ..	16	—	16.1.67 18.9.67	4-16	
				4 S'ship, 1 N BCD				

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911700	ORDCD Acceptance	RUSHCUTTER ..	4	—	16.1.67 3.7.67	4-16
					13.2.67 31.7.67	
903200	CABA ..	RUSHCUTTER ..	3	—	13.3.67 28.8.67	4-16
					10.4.67 25.9.67	
					8.5.67 23.10.67	
					5.6.67 20.11.67	
					13.3.67 31.7.67	
					27.3.67 14.8.67	
					10.4.67 28.8.67	
					24.4.67 11.9.67	
					8.5.67 25.9.67	
					22.5.67 9.10.67	
903210	CABA ..	LEEWIN ..	3	—	As required	4-16
					17.7.67	
911930	POSR ..	PENGWIN ..	18 (4 S'ship)	C	3.4.67	2-10
					2 NB CD	
911730	ABSR ..	PENGWIN ..	17 (4 S'ship)	—	14.8.67	4-10
					1 NB CD	
911940	POUW ..	WATSON ..	7	D	16.1.67 17.7.67	6-10
					PENGWIN ..		4 S'ship, 2 NB CD
911740	ABUW ..	WATSON ..	5	—	16.1.67 15.5.67	6-10
					PENGWIN ..		4 S'ship, 1 NB CD
911900	POPT ..	CERBERUS ..	16 (4 S'ship)	C	9.1.67	4-10
					PENGWIN ..	
911800	LSPT ..	CERBERUS ..	22 (2 S'ship)	C	17.7.67	6-16
					911950	
		PENGWIN ..	4 S'ship, 2 NB CD			

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Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
Seaman — continued	911850	LSRP	WATSON ..	14	C	9.1.67 17.7.67	4-6
	911750	ABRP	WATSON ..	11	—	9.1.67(2) 28.8.67(2)	4-9
			PENGUIN ..	4 S'ship, 1 NBCD		6.3.67(3) 23.10.67 22.5.67(2) 13.11.67(2) 14.8.67	
	911960	POUC	WATSON ..	15	C	13.3.67 17.7.67	5-8
			PENGUIN ..	4 S'ship, 2 NBCD			
	911760	ABUC	WATSON ..	12	—	16.1.67 14.8.67(2)	7-13
			PENGUIN ..	4 S'ship, 1 NBCD		13.3.67 2.10.67 15.5.67(2)	
	911970	POFC	CERBERUS ..	17 (4 S'ship)	C	9.1.67	4-10
			PENGUIN ..	2 NBCD			
911770	ABFC	CERBERUS ..	15 (4 S'ship, 1 NBCD)	—	9.1.67 11.9.67	4-10	
					6.3.67 13.11.67 5.6.67		
911980	POWM	CERBERUS ..	19 (4 S'ship)	C	9.1.67 17.7.67	4-10	
		PENGUIN ..	2 NBCD				
911780	ABWM	CERBERUS ..	19 (4 S'ship, 1 NBCD)	—	9.1.67 14.8.67(2)	4-12	
					27.2.67 9.10.67 15.5.67 13.11.67		
Communications	912910	CY	CERBERUS ..	13	C	9.1.67 17.7.67	3-10
			WATSON ..	1			
			PENGUIN ..	2 NBCD			
	912710	TO	CERBERUS ..	29 (1 NBCD)	—	On completion of CO Course	4-12

	912920	RS	CERBERUS ..	17	C	9.1.67 17.7.67	3-10
			PENGUIN ..	2 NBCD			
	912720	RO	CERBERUS ..	26 (1 NBCD)	—	On completion of CO Course	4-12
	912930	RSS	HARMAN ..	5	C	20.3.67 23.10.67	3-10
			CERBERUS ..	10			
			WATSON ..	1			
			PENGUIN ..	2 NBCD			
	912730	ROS	CERBERUS ..	27 (1 NBCD)	—	On completion of CO Course	4-12
	912940	DS	CERBERUS ..	7	D	11.9.67	3-10
			PENGUIN ..	2 NBCD			
	912740	DO	CERBERUS ..	14 (1 NBCD)	—	On completion of CO Course	4-12
			HARMAN (Navy Office) ..	7			
	912700	CO	CERBERUS ..	6	—	9.1.67 17.7.67 6.3.67 11.9.67 1.5.67 6.11.67	8-40
	912960	POLIN	RAAF School of Languages ..	47	A	9.1.67	3-8
			CERBERUS ..	13			
			PENGUIN ..	2 NBCD			
	912950	POLIN	RAAF School of Languages ..	47	A	9.1.67	3-8
			PENGUIN ..	2 NBCD			
	912000	Able Rank Refresher	CERBERUS ..	4	—	16.1.67 10.7.67 10.4.67 16.10.67	As required
	912010	Able Rank Refresher	KUTTABUL (STC) SYDNEY ..	4	—	10.4.67 17.7.67 9.10.67	As required
Marine Engineering	913650	Artificer Diver ..	RUSHCUTTER ..	8	D	9.1.67 7.8.67	As required
			PENGUIN ..	1		(Assumes previous qualification as CABA)	

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Marine Engineering—continued	913820	CERA/CMECH ..	CERBERUS ..	16	C	27.2.67 28.8.67	6-15
	913950 (ERA)	Direct Entry ERA ..	CERBERUS ..	16 (ERA)	—	9.1.67 10.7.67	4-12
	913960 (ERAD)	Direct Entry ERAD	CERBERUS ..	1 (NBCD)	—	9.1.67 10.7.67	4-12
			PENGUIN ..	1 NBCD	—	9.1.67 10.7.67	4-12
	913930	Mechanician ..	NIRIMBA ..	98	A	16.1.67 17.7.67	6-15
	913910	POME	CERBERUS ..	12	D	15.5.67	10-20
			PENGUIN ..	2 NBCD	D	29.5.67	10-20
	913920	POMED	CERBERUS ..	10	D	29.5.67	10-20
			PENGUIN ..	2 NBCD	D	29.5.67	10-20
	913610	ERW	CERBERUS ..	6	D	24.4.67 6.11.67	6-12
	913940	MTC	CERBERUS ..	12	D	30.1.67(4) 14.8.67(4)	6-12
			PENGUIN ..	2 NBCD	D	30.1.67(4) 14.8.67(4)	6-12
	913980	MTD Educational..	CERBERUS ..	4	—	24.4.67 6.11.67	As required
	913620	TOW	CERBERUS ..	10	D	16.1.67 10.4.67	6-12
			CERBERUS ..	10	D	10.7.67 9.10.67	See Note
	913630	B and L	CERBERUS ..	4	—	6.2.67 1.5.67	5-10
			CERBERUS ..	4	—	28.8.67 13.10.67	5-10
913710	ME	CERBERUS ..	14	—	As required	6-15	
913720	MED	CERBERUS ..	13 (1 NBCD)	—	27.2.67 and as re- quired	10-16	
		CERBERUS ..	13 (1 NBCD)	—	27.2.67 and as re- quired	10-16	
913990	CNS	NIRIMBA ..	8	D	16.1.67	3-6	
913970	Direct Entry NS ..	NIRIMBA ..	21	—	16.1.67 17.7.67	4-10	
		PENGUIN ..	1 NBCD	—	16.1.67 17.7.67	4-10	
Electrical ..	914920	POEP	CERBERUS ..	20	C	16.1.67 10.7.67	4-12
			PENGUIN ..	2 NBCD	C	16.1.67 10.7.67	4-12
	914930	POEWE	CERBERUS ..	24	C	16.1.67 10.7.67	4-12
	914940	POEWR	PENGUIN ..	2 NBCD	C	16.1.67 10.7.67	4-12
CERBERUS ..			29	B	10.7.67	4-12	
	914950	POEC	PENGUIN ..	2 NBCD	B	3.4.67	4-12
CERBERUS ..			27	B	3.4.67	4-12	
	914710	EMP	PENGUIN ..	2 NBCD	—	As required	4-16
CERBERUS ..			32 (1 NBCD)	—	As required	4-16	
	914720	EMWE	CERBERUS ..	35 (1 NBCD)	—	As required	4-16
	914730	EMWR	CERBERUS ..	40 (1 NBCD)	—	As required	4-16
	914740	EMC	CERBERUS ..	40 (1 NBCD)	—	As required	4-16
	914460	TOW	CERBERUS ..	10	D	16.1.67 10.4.67	6-12
CERBERUS ..			10	D	10.7.67 9.10.67	See Note	
	954810	Direct Entry SAP ..	CERBERUS ..	45	—	As required	4-12
WATSON ..			7	—	As required	4-12	
	954820	Direct Entry SAW ..	CERBERUS ..	51	—	As required	4-12
	954830	Direct Entry SAC ..	CERBERUS ..	63	—	As required	4-12
	954870	Conversion Course to SAP and CSAP (ex EA)	CERBERUS ..	28	B	As required	3-8
WATSON ..			10	B	As required	3-8	
	954860	Conversion Course to SAP and CSAP (ex OA)	CERBERUS ..	34	B	As required	3-8
WATSON ..			4	B	As required	3-8	
	954840	Conversion Course to SAW and CSAW (ex EA)	CERBERUS ..	53	A	As required	3-8
	954880	Conversion Course to SAW and CSAW (ex OA)	CERBERUS ..	63	A	As required	3-8
	954890	Conversion Course to SAW and CSAW (ex EAR)	CERBERUS ..	27	B	As required	3-8

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.	
Electrical— <i>continued</i>	954850	Conversion Course to SAC and CSAC (ex EA)	CERBERUS ..	63	A	As required	3-8	
	954910	Conversion Course to SAC and CSAC (ex EAR)	CERBERUS ..	45	A	As required	3-8	
Naval Airman	915960	POACM	ALBATROSS ..	20	C	As required	3.7.67	As required
			WATSON ..	1				
			PENGUIN ..	2 NBCD				
	915910	POAAH	ALBATROSS ..	6	D	20.2.67	4-12	
			PENGUIN ..	2 NBCD				
	915710	NAAH	ALBATROSS ..	5	NA	16.1.67		
	915320	Ord NA	PENGUIN ..	1 NBCD	NA	16.1.67	3.7.67	As required
			ALBATROSS ..	1		13.2.67			31.7.67
	915920	POAMET	ALBATROSS ..	5	D	As required	2	
			PENGUIN ..	2 NBCD				
915720	NAMET	WATSON ..	4	NA	16.1.67	6-8		
		ALBATROSS ..	8					
915730	NAPHOT	PENGUIN ..	1 NBCD	NA	6.2.67 (subject to Army requirements)	4-6		
		ALBATROSS ..	16					
			PENGUIN ..	1 NBCD				

	915940	POASE	ALBATROSS ..	8	D	8.5.67	1-3
	915740	NASE	PENGUIN ..	2 NBCD	NA	30.1.67	3-8
			ALBATROSS ..	13			
Air Engineering	916930	MECHAE	ALBATROSS ..	1 NBCD	A	9.1.67	4-12
			PENGUIN ..	2 NBCD			
	916920	POAMAE	ALBATROSS ..	35	B	6.3.67	4-16
			PENGUIN ..	2 NBCD			
	916820	LAMAE	ALBATROSS ..	11	D	17.4.67	4-12
	916720	NAMAE	ALBATROSS ..	11	NA	16.1.67	4-12
			PENGUIN ..	1 NBCD			
	916910	POAMW	ALBATROSS ..	27	B	6.3.67	4-12
			PENGUIN ..	2 NBCD			
	916810	LAMW	ALBATROSS ..	10	D	10.4.67	4-12
916710	NAMW	ALBATROSS ..	12	NA	16.1.67	4-12	
		PENGUIN ..	1 NBCD				
916220	TOW	CERBERUS ..	8	D	16.1.67	10.7.67	6-12
		ALBATROSS ..	2		10.4.67	9.10.67	See Note
Air Electrical ..	917910	POEAW	CERBERUS ..	11	B	10.7.67	4-12
			ALBATROSS ..	15			
			PENGUIN ..	2 NBCD			
	917710	EMAW	CERBERUS ..	17 (1 NBCD)	—	As required	4-16
			ALBATROSS ..	7			
	917920	POEAC	CERBERUS ..	19	B	3.4.67	4-12
			ALBATROSS ..	16			
	917720	EMAC	PENGUIN ..	2 NBCD	—	As required	4-16
			CERBERUS ..	28 (1 NBCD)			
	917210	TOW	ALBATROSS ..	8	D	16.1.67	10.4.67	6-12
CERBERUS ..			8	10.7.67		9.10.67	See Note
			ALBATROSS ..	2			

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Medical and Dental	918910	POSBA	CERBERUS .. PENGUIN ..	3 2 NBCD	E	15.5.67 16.10.67	2-8
	918710 } 918720 } 918360	SBA	CERBERUS or PENGUIN	37 (1 NBCD)	—	30.1.67 21.8.67 1.5.67 6.11.67	3-12
	918390	Hygiene Inspector ..	Army School of Health	39	B	As required	As required
	918200 } 918210 }	Dispenser ..	CERBERUS or PENGUIN	38	B	6.2.67 14.8.67	1-2
	918220 } 918230 }	Lab. Asst. ..	CERBERUS or PENGUIN	12	A	6.2.67 14.8.67	1
	918220 } 918230 }	X-ray Asst. ..	Public Hospital .. CERBERUS or PENGUIN	44 12	B	As required	1
	918250 } 918240 }	Operating Room Attendant	Public Hospital .. CERBERUS or PENGUIN	26 12	B	6.2.67 14.8.67	1
	918260 } 918270 } 918280 }	Aviation Medicine .. Advanced Nursing	ALBATROSS .. CERBERUS or PENGUIN	16 26 12	C B	As required As required	1-2 1-2
	918300 } 918310 }	Masseur	Public Hospital .. CERBERUS or PENGUIN	26 12	B	As required	1
	918330	Underwater Medicine	CERBERUS or Public Hospital RUSHCUTTER ..	26 26	C	6.2.67 14.8.67	1-2

Supply and Secretariat	918810	Dental Mechanic Conversion	CERBERUS ..	50	A	As required	1-3
	918350	Advanced Dental Mechanic	United Dental Hospital, Sydney	1 to 2 years	A	As required	1-2
	918930	PODA	CERBERUS .. PENGUIN ..	4 2 NBCD	E	As required	1-2
	918730	DA	CERBERUS ..	17 (1 NBCD)	—	30.1.67 7.8.67	1-6
	919910	POWTR	CERBERUS .. PENGUIN ..	3 2 NBCD	E	16.1.67 28.8.67	4-10
	919710 } 919920 }	WTR	CERBERUS ..	13 (1 NBCD)	—	24.4.67 11.9.67	4-10
	919820	POCK	CERBERUS .. PENGUIN ..	4 2 NBCD	E	23.1.67 21.8.67	2-5
	919820	LCK	CERBERUS ..	4	E	20.2.67 20.3.67 17.4.67 22.5.67 17.7.67 25.9.67 13.11.67	2-5
	919720	CK	CERBERUS .. CERBERUS or PENGUIN	16 1 NBCD	—	9.1.67 10.4.67 30.1.67 (WATSON) 6.2.67 22.5.67 6.3.67 17.7.67 14.8.67 16.10.67 11.9.67 13.11.67	3-12
	919020 } 919930 }	Advanced Cookery	WAFTS Melbourne	12	D	As required	As required
	919730	POSTD	CERBERUS .. PENGUIN ..	3 2 NBCD	E	16.1.67 28.8.67	4-10
	919730	STD	CERBERUS ..	6 (1 NBCD)	—	9.1.67 17.7.67 20.2.67 28.8.67 3.4.67 9.10.67 15.5.67 20.11.67	4-10
	919940	POSN	CERBERUS .. PENGUIN ..	3 2 NBCD	E	16.1.67 28.8.67	4-10

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Supply and Secretariat— <i>continued</i>	919740	SAN	CERBERUS ..	6 (1 NBCD)	—	6.3.67 2.10.67 8.5.67 17.7.67	4-10
	919950	POSV	CERBERUS ..	3	E	16.1.67	4-10
	919750	SAV	PENGUIN .. CERBERUS ..	2 NBCD 7 (1 NBCD)	—	28.8.67 16.1.67 2.10.67	4-10
Regulating ..	920910	MAA	CERBERUS ..	5	D	—	3-6
	920910	RPO	CERBERUS .. PENGUIN ..	6 2 NBCD	D	9.1.67	3-6
	920810	LPM	CERBERUS ..	8	D	4.9.67	4-12
Musician ..	921990	CPOMUSN ..	CERBERUS ..	42	A	16.1.67	2
	921920	POMUSN ..	CERBERUS .. PENGUIN ..	22 2 NBCD	C	24.7.67	2-4
	921720	MUSN	CERBERUS ..	61 (1 NBCD)	—	As required	As required
WRANS ..	921710	OMUSN	CERBERUS ..	12	—	As required	As required
	921700	JMUSN	CERBERUS ..	8	—	As required	As required
	907700	Ret. Pt. 1 Trg. ..	CERBERUS ..	4½	—	10.1.67 11.7.67 21.2.67 22.8.67 4.4.67 3.10.67 16.5.67 14.11.67	20-40
	947700	Pre OTC Supply ..	CERBERUS ..	4	—	8.5.67 9.10.67	3-8
	974701	Pre OTC Communi- cations	CERBERUS ..	6	—	5.6.67 6.11.67	3-8
	907510	OTC, NBCD and First Aid (OTC)	CERBERUS ..	10 1½	—	23.1.67 7.8.67	3-8
	907930	WRAN RST ..	CERBERUS ..	8	D	As required	3-10
	907940	WRAN RSM ..	HARMAN ..	6	D	As required	3-10
	937940	Or HARMAN .. WATSON ..	..	5 1	—	—	—
	937710	WRRO Sect. A ..	CERBERUS ..	6	—	27.3.67 21.8.67 8.5.67 2.10.67 10.7.67 13.11.67	4-16
937740	WRROM (Sect. B)	CERBERUS ..	6	—	On completion of WRRO Sect. A	As required	
	WRROM (Sect. C)	HARMAN ..	8	—	On completion of WRRO Sect. B	As required	
937730	WRROT	CERBERUS ..	9	—	On completion of WRRO Sect. A	As required	
907950	POWRLIN ..	RAAF School of Languages	47	A	As for POLIN	As required	
937950	POWRSBA ..	CERBERUS ..	3	—	As for POSBA	As required	
907960	WRSBA (Prob.), Sect. 1, Pt. 2	CERBERUS ..	12	—	As for SBA	3-20	
937760	WRSBA, Sect. 2, Pt. 2	CERBERUS or PENGUIN	12	—	On completion of Sect. 1, Pt. 2	As required	
947760	POWRWTR ..	CERBERUS ..	3	E	As for POWTR	As required	
907970	WRWTR	CERBERUS ..	8	—	As required	2-6	
907770	WRWTRST ..	CERBERUS ..	As required	—	As required	As required	
907980	POWRSV	CERBERUS ..	3	E	As for POSV	As required	
907780	WRSV	CERBERUS ..	5	—	As required	2-10	
907910	POWRCK	WATSON ..	4	E	As for POCK	As required	
907810	LWRCK	WATSON ..	4	E	As for LCK	As required	
907710	WRCK	CERBERUS or WATSON	8	—	As required	2-10	
907990	POWRSTD ..	CERBERUS ..	3	E	As for POSTD	As required	
907790	WRSTD	CERBERUS ..	8	—	As required	2-10	
907830	LWRREG	CERBERUS ..	13	D	10.4.67 16.10.67	As required	
907920	POWRRP ..	WATSON ..	8	D	As required	3-6	

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Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
WRANS—continued	907820	LWRRP	WATSON ..	7	D	As required	3-6
	907720	WRRP	WATSON ..	6	—	As required and 6.3.67	3-6
	907300	WRRP (Navigators Yeoman)	WATSON ..	4	—	As required	As required
	907310	WRRP (Film Assessor Weapons)	KUTTABUL ..	1	—	As required	As required
	907730	WRMTD ..	ALBATROSS ..	6	—	As required	3-6
General and Miscellaneous	902301	MTDI	RAASC	8	D	As required	As required
	902310	MTD	ALBATROSS ..	6	D	16.1.67 27.2.67 10.4.67 22.5.67 7.8.67 18.9.67 30.10.67	6-12
	902320	MTM	ALBATROSS ..	6	D	As required	2-6
	902330	Recruiting ..	LONSDALE .. HARMAN (Navy Office)	9 days 5 days	—	As required	As required
	902340	PO Leadership ..	CERBERUS ..	6	D	9.1.67 17.7.67 20.2.67 28.8.67 3.4.67 9.10.67 15.5.67	10-30
	902350 } 902360 }	Instructional Technique	CERBERUS or WATSON	1	—	As required	6-12
	902370	Efficient Reading ..	CERBERUS ..	2	—	As required	5-10
	902380	Moral Leadership ..	As arranged ..	2	—	As arranged	As required
	902360	C of E Male Character Leadership	PENGUIN ..	1	—	26.2.67	15 Navy
	903270	Protestant Male Character Leadership	PENGUIN ..	1	—	5.3.67	15 Navy
	903280	RC Male Character Leadership	PENGUIN ..	1	—	12.3.67	15 Navy
	903250	Combat Survival ..	RAAF Amberley ..	16 days	—	As required	As required
	902390	Standard NBCD ..	CERBERUS ..	1	—	9.1.67 17.7.67 23.1.67 7.8.67 6.2.67 21.8.67 20.2.67 4.9.67 6.3.67 18.9.67 20.3.67 2.10.67 3.4.67 16.10.67 17.4.67 30.10.67 1.5.67 13.11.67 15.5.67 27.11.67 29.5.67 11.12.67 12.6.67	6-18
902400	Standard NBCD ..	PENGUIN ..	1	—	16.1.67† 19.6.67 30.1.67 17.7.67 6.2.67 31.7.67 13.2.67* 7.8.67 20.2.67* 21.8.67 27.2.67 4.9.67 6.3.67 18.9.67 13.3.67 2.10.67 27.3.67* 9.10.67 3.4.67 16.10.67 10.4.67 30.10.67 24.4.67 13.11.67 8.5.67 20.11.67 22.5.67 27.11.67 5.6.67 11.12.67	6-24	

Branch or Group	EDP No.	Course (for Promotion to)	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
General and Miscellaneous —continued	902410	Advanced NBCD ..	PENGUIN ..	2	—	16.1.67†	10-24
						6.2.67	24.7.67
						20.2.67	31.7.67‡
						27.2.67	7.8.67‡
						13.3.67	14.8.67
						20.3.67	21.8.67§
						3.4.67	28.8.67
						17.4.67	4.9.67
						24.4.67	18.9.67
						1.5.67	25.9.67
						8.5.67	9.10.67
						15.5.67	16.10.67
						22.5.67§	23.10.67
						29.5.67	30.10.67
						5.6.67	6.11.67
12.6.67	20.11.67						
17.7.67	4.12.67§						
6.3.67	17.4.67						
11.9.67	23.10.67						
13.2.67	31.7.67						
24.2.67	11.8.67						
31.7.67	18.9.67						
6.11.67	6.11.67						
WATSON	902430	HET Preparatory ..	WATSON	6	D	As required	
WATSON	902470	ETI ..	WATSON	2	—	As required	
WATSON Seagoing Ship ..	911680	HC2 ..	WATSON Seagoing Ship ..	2	—	As required	

* NIRIMBA Apprentices.

† 2 MTC Courses ex CERBERUS.

‡ Midshipmen.

§ Officers.

Note—Numbers are a combined total for courses 913620, 914460, 916220 and 917210, the first 8 weeks of which are common to all courses.

(Navy Orders 653 of 1966 and 397 of 1967)

(DMT 311/201/247)

Section 4 EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

394—Naval Stores—General Class Group 0414—Catalogue No. 7500-7509 Packing—Reintroduction

Catalogue No. 7500-7509 series packing has been reintroduced for use in the following applications only—

- Daring Class and Type 12 Frigates.* Glands of superheated steam valves fitted in the inverted position and for which preformed rings are not stocked by Naval Stores.
- Steam-propelled Vessels, excluding Daring Class and Type 12 Frigates.* Glands of steam valves operating at 250 lbs. per square inch pressure, or 450° F., and above, which are fitted in the inverted position.
- All Steam-propelled Vessels.* Glands of small valves, i.e., superheated drain valves, operating at 250 lbs. per square inch, or 450° F., and above, which, because of the close proximity of the bridge and gland, are difficult to pack using Catalogue No. 7960 shredded asbestos mica lubricated packing.

2. Catalogue No. 7500-7509 series packing is suitable for use at temperatures up to 1,000° F., and is stocked in the following sizes—

Catalogue No.	Section
7500	¼-in. Sq.
7501	⅜-in. Sq.
7502	½-in. Sq.
7503	⅝-in. Sq.
7504	¾-in. Sq.
7505	⅞-in. Sq.
7506	1-in. Sq.
7507	1 1/16-in. Sq.
7508	1 1/8-in. Sq.
7509	1 1/4-in. Sq.

3. For services other than those listed in Paragraph 1 above, preformed ring packings introduced in Navy Order 40 of 1966 should continue to be used. For non-standard stuffing boxes shredded packing Catalogue No. 7960 must be used, care being taken to ensure that header rings are used at the top and bottom of the shredded packing to prevent extrusion.

(ACDC 512/56/343)

RESTRICTED

395—Shell QF 4.5-in. Drill—Fitting with Brass Plugs

The use of 4.5-in. Drill Shell fitted with cast iron fuze-hole plugs, has caused blockages and damage to ammunition hoists on board HMA ships.

2. It has been decided therefore to discontinue the use of such plugs in 4.5-in. Drill Shell, and use only brass plugs.

11072/67.—3

RESTRICTED

396

22

3. Stocks of shell on board HMA ships and at West Head Gunnery Range are to be examined. Any cast iron plugs found are to be replaced by No. 11 brass firing plugs which should be available on board.

4. Cast iron plugs are to be returned to the nearest RAN Armament Depot.

(DAS 700/253/41)

UNCLASSIFIED

396—Stores General—Group Class 4130—Refrigeration Air Conditioning Plants and Components—Obsolescent Federal Stock Numbers

The USA has advised that the undermentioned Federal Stock Numbers for Non-standard Items are replaced by Standard Items.

2. Accordingly, the Federal Stock Numbers have been declared obsolescent superseded by the Standard Item, as follows—

<i>Obsolescent Item</i>		<i>Item Name</i>	<i>Superseding Item</i>	
<i>Group Class</i>	<i>Catalogue No.</i>		<i>Group Class</i>	<i>Catalogue No.</i>
4130	00-276-9667	Cooling Coil, Air, Duct Type ..	4130	00-913-9430
4130	00-276-9665	Cooling Coil, Air, Duct Type ..	4130	00-913-9432

3. The obsolescent symbol "O" is to be inserted against all records of the item.

4. Ships and establishments are to continue to demand the old Federal Stock Number until advice is received that stocks are exhausted.

(DSAP 1109/51/833)

RESTRICTED

Registration

ANO 397/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
11th September, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

J. Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

11071/67

RESTRICTED

Section 2 PERSONNEL

RESTRICTED

397—Sailors—Career and Pre-commissioning Training—General

In order to ensure that officer's initial courses, Able Rank courses and basic apprentice training are kept to a minimum length it has been decided that such training is to be limited to teaching the basic knowledge and skills required to perform the task of the specialisation/category concerned. (Navy Order 659 of 1965 gives further details of apprentice training.)

2. Subsequent promotion courses are to be aimed at imparting knowledge of newly introduced principles, and overall knowledge of a more detailed nature than that taught at basic training, as required for the performance of the higher duties.

3. The knowledge acquired on basic and promotion courses is to be supplemented by on-the-job training, or pre-commissioning training, or both.

4. The foregoing policy means that more accent will be placed on the courses which will be required to supplement career training. It will be necessary to establish a greater degree of control of such courses than in the past, and to ensure that complete records of all training are maintained in Navy Office in respect of each member.

Definitions and Responsibilities

Pre-commissioning Training (PCT)

5. This training is the responsibility of the Director of Officers Appointments and the Director of Manning and Training and covers all training prior to a member's date of posting to a ship or establishment. It will be arranged as follows—

(a) *Overseas—*

At Navy Office.

(b) *Australia—*

(i) *For Officers—*

By the Director of Officers Appointments in conjunction with authorities concerned.

(ii) *For Sailors—*

Where PCT may be required, Posting Forecasts will show an estimated period allocated for PCT and will contain particulars of equipments on which sailors are experienced. This will apply in the main to technical branch sailors. In some cases, details of the intended PCT will be shown. Captains of ships or establishments to which sailors are posted are then responsible for requesting ACNB to arrange necessary postings to particular PCT, or to vary that shown in the forecast. The following signal form, suitably classified, is to be used—

	<i>Format</i>	<i>Example</i>
FROM	Ship or Establishment	VENDETTA
TO	ACNB	ACNB
INFO	School(s) concerned	CERBERUS
	CORQUEST	CORQUEST
(a)	Posting Forecast	(a) PF 2/66
(b)	Sailor(s) concerned including billet No. (when allocated)	(b) POWR SMITH 770421 POEWR JONES 770421
(c)	PCT Course(s) desired together with brief title	(c) 914300 Sonar 170/MM10

(iii) *For Apprentices—*

PCT will be arranged for apprentices by the Director of Manning and Training whilst continuation training required during the first posting of Artificers (ex apprentice) is to be arranged by Captains in accordance with Navy Order 659 of 1965.

PWT—Pre-workup Training

6. This training applies to seagoing ships only, and is the responsibility of the Captain, or where ships are not commissioned, the Captain designate. Carried out prior to a workup, it is in the main the training of crews, teams or parts thereof, in the operation of a system or sub-system.

7. This training will normally be arranged by discussion between the various authorities concerned, and will be controlled as required by the Flag Officer Commanding, Her Majesty's Australian Fleet. Application for PWT should be made as early as possible.

Continuation Training

8. All training of personnel after they have joined a ship, other than PWT or promotion training, is Continuation Training. It is the responsibility of the Captain. Any of the courses listed in the Appendix may be carried out from time to time as the need arises, and Captains may arrange specially designed courses for unusual circumstances. Continuation Training courses should be arranged direct with the schools concerned.

Timing of PCT

9. In order to reduce the loss of time between completion of basic or promotion courses and the start of PCT courses, it is desirable to co-ordinate those two forms of training as closely as possible. For example, PCT courses for apprentices will be planned to be undertaken on completion of their training in the RANATE to start about mid-January and mid-July of each year.

10. In most cases sailors ex Able Rank courses will not require to undergo PCT courses prior to first posting to sea.

11. In the case of subsequent promotion courses, however, it is desirable for many candidates to be nominated for PCT courses before taking up their new billets after completion of courses, and that they be able to undertake such training on completion of promotion course. It is emphasised that such courses will also be available for candidates other than those completing the promotion course. Until re-equipment of the training schools is well advanced some courses will obviously be limited in scope.

Syllabuses

12. With the vast range of subjects covered by these courses, it is not considered either possible or desirable for Navy Office to maintain detailed records of syllabuses. It will be incumbent upon the schools to maintain liaison with the Fleet to ensure that requirements are being met, Navy Office being advised of any problem areas.

Programmes

13. Course programmes will not include PCT and continuation courses except where the need is proven, since in the majority of cases the course dates will be dependent upon the need which cannot be forecast. Courses which are programmed will appear in the annual course Navy Order.

Amendments

14. Proposed amendments to the Appendix are to be forwarded direct to the Director of Manning and Training in the following form—

	<i>Corchange</i>	<i>Serial No. 3</i>
From: KUTTABUL		
Reason: Necessity for film assessors to assess bombing as well as Gunnery Films—NOL 1211/3/6 of 6 June 68.		
Present: 907310 WRRP (Film Assessor)	KUTTABUL	1
Proposed: 907310 WRRP (Film Assessor)	KUTTABUL	2

J. Jones
CAPTAIN.

Courses Available

15. A complete list of the courses available is shown in the Appendix to this order.

Introduction

16. Pending finalisation of PCT requirements, the above arrangements will come into force as follows—

- (a) New ships on commissioning—in force now.
- (b) Apprentices—in accordance with Navy Order 659 of 1965.
- (c) PCT required as deduced from posting forecast under Paragraph 5 (b) (ii) above—on receipt of posting forecasts, PCT arrangements have been made to date for certain officers and sailors in DDG's, submarines, Patrol Craft and for certain specialised equipments such as Seacat UA 8/9/667 and Ikara. PCT programming for other classes of ships will be introduced progressively after discussion with authorities concerned.
- (d) PCT already laid down in Navy Orders—in force now.

Numbering System and Conditions of Award

17. An explanation of the numbering system and conditions of award is attached as Appendix B to this order.

Reporting

18. The results of PCT courses in Australia are to be reported by the school concerned on Forms AS 161A for both officers and sailors. It is most important that results be reported promptly and accurately. Failure to do so will result in duplication of training effort and the inability to select and post men to the duty for which they are best trained.

19. The present system of reporting results of overseas courses is to continue.

20. ABR 27 will be amended.

Effective Date

21. The course numbering system is effective from 25th September, 1967. Navy Order 653 of 1966 has been repromulgated as Navy Order 393 of 1967.

APPENDIX A**Career and Pre-commissioning Training Courses Index**

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APPENDIX A—continued

Career and Pre-commissioning Training Courses Index—Amendment Sheet

Amdt. No.	Date of Issue	Date of Insertion	Initials
1	..		
2	..		
3	..		
4	..		
5	..		
6	..		
7	..		
8	..		
9	..		
10	..		
11	..		
12	..		
13	..		
14	..		
15	..		

APPENDIX A—continued
Officers Post-graduate and Professional Courses

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
901100	Aircrew Courses Basic flying training school (Pilot)	Aust.	32	GL/SL	NB	
901101	Advanced flying training school (Pilot)	Aust.	32	Aircrew (P)	NB	
901102	Basic Observer Training ..	UK ..	18	Aircrew (O)	NB	
901103	Air Traffic Control ..	Aust.	20	Aircrew GL/SL/SDAV	NB	
901104	Qualified Flying Instructor (FW)	Aust.	24	Aircrew (P)	NB	
901105	Qualified Helicopter In- structor	UK ..	16	Aircrew	NB	
901106	Quadradar ..	Aust.	6	ATCO's	NB	
901107	Air Warfare Instructor ..	UK ..	26	Aircrew (P)	NB	
901108	QFI/QHI—re-category ..	Aust.	3 days	Aircrew	NB	
901109	Empire Test Pilot School ..	UK ..	52	Aircrew	NB	
901110	Advanced Air Navigation	Aust.	24	Aircrew (O)	NB	
901111	Photographic Officer ..	Aust.	13	Aircrew SDAV ..	NB	
901112	Light Aircraft Experience (RANC Cadets)	Aust.	4	Cadet Midshipmen	NB	
901113	Flight Grading ..	Aust.	3	GL and SL	NB	
901114	Refresher Flying ANRUK and ANA (W) Staffs	USA/UK	2	Aircrew (P) (O) ..	NB	
901116	Photographic Interpreters	UK ..	12	Aircrew (O)	NB	
901119	Observer—TAS ..	UK ..	As required	Aircrew (O)	NB	
901120	Maintenance Test Pilot (FW)	Aust.	6	Aircrew (P)	NB	

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
Aircrew Courses—continued						
901121	Maintenance Test Pilot (H)	UK/Aust.	6	Aircrew (P)	.. NB	
901130	Helicopter Conversion	Aust.	12	Aircrew (P)	.. NB	
901131	Helicopter OFS	Aust.	21	Aircrew (P) (O)	.. NB	
901132	Tracker OFS	Aust.	24	Aircrew (P) (O)	.. NB	
901133	Skyhawk OFS	Aust.	16	Aircrew (P)	.. NB	
901134	Twin Conversion	Aust.	3	Aircrew (P)	.. NB	
901135	Scout Conversion	Aust.	4	Aircrew (P)	.. NB	
901136	WST Instructor	Aust.	As required	Aircrew (P) (O)	.. NB	
901137	Landing Signal Officer	Aust./USA	16	Aircrew (P)	.. NB	
901138	Safety Equipment and Survival Officer (Long)	Aust.	6	Aircrew or SDAV	.. AR	
901139	Safety Equipment Officer (Short)	Aust.	2	Aircrew or SDAV	.. R	
901140	Iroquois Conversion	Aust.	4	Aircrew (P)	.. NB	
901141	High Altitude Indoctrination	Aust.	1	Aircrew (P) (O)	.. NS	
901142	High Altitude Refresher	Aust.	2 days	Aircrew (P) (O)	.. NS	
All Officers						
901200	Naval Staff	UK	48	—	NB	
901201	Imperial Defence College	UK	52	—	NB	
901202	Joint Services Staff College	UK	24	—	NB	
901203	US Armed Forces College	USA	24	—	NB	
901204	RAAF Staff	Aust.	52	—	NB	
901205	Naval Command Course	USA	42	—	NB	
901206	Australian Army Staff Course	Aust.	52	—	NB	

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901210	Interpreters Course (Chinese)	Hong Kong	156	—	NB	
901211	Interpreters Course (Indonesian)	Aust.	104	—	NB	
901212	Interpreters Course (Russian)	Aust.	104	—	NB	
CO (Designate) Course						
901600X	NBCD	PENGUIN	2 days	—	A NB	Also suitable for officers posted as Executive Officer in large ships
901601X	Communications	CERBERUS	3 days	—	A NB	
901602X	Gunnery	CERBERUS	As arranged	—	A NB	
901603X	ND	WATSON	As arranged	—	A NB	
901604X	ASW	WATSON	As arranged	—	A NB	
901605X	Minesweeping	WATSON	2	—	A NB	For Captains and 1st Lieutenants of Minesweepers
901606X	Supply and Secretariat	CERBERUS	5 days	Officers posted in Command of HMA ships	A NB	
Communications						
901320X	Small Ships Signal Officers Course	CERBERUS or STC SYDNEY	3 days	General List Officer carrying out these duties	A	
901321X	Cryptography	CERBERUS or STC SYDNEY	3 days	Officers Emergency Crypto teams	A	
901322X	Crypto Refresher	CERBERUS or STC SYDNEY	2 days	All officers	.. A	

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No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
Communications—continued						
901323X	Basic Communications	CERBERUS ..	1	Officers of the General Lists, SL and SD Lists and Reserve Officers on full time service of the rank of Lieutenant and below	A NS	
901324	Long Communications	UK	50	Seamen Officers—As select- ed by Naval Board	NB	
901325	Advanced Communications	UK	12	Seamen Officers—As select- ed by Naval Board	NB	
Divisional						
901340	New Entry Officers Indoc- trination	CERBERUS ..	3	RAN Officers newly pro- moted or entered in Aus- tralia	R NB	
901341	Reserve Officers Indoc-trina- tion	CERBERUS ..	2	Newly appointed RANR and RANVR officers	R NB	
901342	RAN Divisional	CERBERUS ..	2	(a) GL Sub-Lieutenants on return from UK train- ing (b) SD officers promoted in UK on return to Aus- tralia	R NB	Should be followed by Short Sports Course. The Divi- sional Course is designed to— (a) Familiarise officers with current RAN regulations pertaining to divi- sional matters (b) Provide instruction in management
901343	Short Sports Course	CERBERUS ..	5	(a) Officers on completion of 901340 and 901342 (b) Officers on application	R NB	This course is designed to fit officers for the efficient discharge of the duties of Sports Officer
Engineer Officers						
901360	Engineering Cross Training ENWEL to ENWE	CERBERUS ..	Length of course deter- mined by previous training and experience	Commanders and below of the ENWEL category	NB	
901361	Engineering Cross Training ENWER to ENWE	CERBERUS ..	Length of course deter- mined by previous training and experience	Commanders and below of WEM category	NB	
901150	Submarine Engineering	UK	20	—	NB	
901151	Telecommunications	UK	52	—	NB	
901160	Skyhawk Aircraft Engineer- ing Maintenance	USA	As required	—	NB	
901161	Skyhawk Aircraft Electrical Engineering	USA	As required	—	NB	
901162	Tracker Aircraft Engineer- ing Maintenance	USA	As required	—	NB	
901163	Tracker Aircraft Electrical Engineering Maintenance	USA	As required	—	NB	
901170	Engineering Post Graduate (ME)	UK	52	—	NB	
901171	Engineering Post Graduate (WE)	UK	52	—	NB	
901172	Engineering Post Graduate (AE)	UK	52	—	NB	

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
Gunnery						
901380	Basic Gunnery	CERBERUS ..	1	Short Service Commission Officers and Junior RANR Officers	R NB	
901381	DGO	CERBERUS ..	4	RAN General List Officers	A NS	Examination will be held on completion
901382X	Gunnery Refresher ..	CERBERUS ..	1	General List Officers ..	A	
901383	TS Officers	CERBERUS ..	3	General List Officers posted for TS duties in Type 12 destroyer escorts	A	
901384	Long Gunnery	UK	34	General List Officers ..	NB	
Instructor Officers						
901180	Meteorology	UK	26	Instructor Officers ..	NB	
Joint Anti-submarine Subjects						
901400	Senior Officers Study Period	AJASS Nowra	1	General List Captains and above	R NB	
901401	Short Maritime Head- quarters (MHQ 1)	AJASS Nowra	1	Officers actively engaged in ASW or who have recent- ly completed an AJASS course and who may be required to man MHQ	—	
901402	Maritime Headquarters (MHQ 2)	AJASS Nowra	2	Officers out of touch with ASW who may be re- quired to man MHQ	A	
901403X	Joint Unit (JUC) ..	AJASS Nowra	(a) 4	(a) Ships Command Team (including appropriate sailors)	R	
901404X	Introduction to Joint Anti- submarine	AJASS Nowra	(b) 4 1	(b) A/S Aircrew crews .. Officers with no appreciable or recent ASW experience (includes Instructor Of- ficers)	NS R	
901405X	Joint ASW Tactical Period	AJASS Nowra	2	Officers of the Seaman Branch of the rank of Captain, Commander or Lieutenant - Commander with recent operational ASW experience	NB	The aim of this course is to provide the opportunity to review present and future ASW tactics, pro- cedures and strategy
Management Courses						
901650X	Management	PENGUIN ..	3 days	Captains	NB	
901651X	Management	PENGUIN ..	5 days	Commanders	NB	
901652X	Management	PENGUIN ..	5 days	Lieutenant-Commanders ..	NB	
Medical and Dental Officers						
901190	Anaesthesia for Medical Officers	Aust. ..	4	—	NB	
901191	Underwater Medicine ..	RUSHCUTTER	2	Medical, Dental and Ward- master of RAN and RANR	NB	Courses held once per quar- ter. Officers nominated by MDG
901192	Aeromedical Training for Medical Officers, Dental and Wardmasters	ALBATROSS	1	—	NB	Courses held once per quar- ter. Officers nominated by MDG
901193	Aeromedical Orientation Course for Exec. Officers	ALBATROSS	1	—	NB	Courses held once per quar- ter. Officers nominated by MDG

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
Meteorological and Photographic Course						
901470	Instructor Officers Introductory	NAS Nowra ..	4	Instructor Officers selected to specialise in meteorology	A	Short courses can be arranged as required for other officers
901471	Photography	NAS Nowra as required	As required	(a) Aircrew Category .. (b) Hydrographic Category (c) Gunnery Category	A	Arranged as required
Miscellaneous Subjects						
901510	Joint Warfare Course ..	RAAF Williamstown	3	General List and Instructor Officers of Senior Lieutenant and Lieutenant-Commander rank	R	
901512X	Instructional Technique ..	CERBERUS or WATSON	1	Officers nominated for instructional duties	A	
901513X	Duties of OOW ..	CERBERUS ..	1	Officers of General, SL and SD Lists of Lieutenants rank and below	A NS	
901514X	Seamanship	CERBERUS ..	1	Officers of General, SL and SD Lists of Lieutenants rank and below	A NS	
901515	Combat Survival ..	RAAF Base Squadron, Amberley	14 days	(a) Aircrew (b) Selected Officers	R NB	
901516	Officers Safety Equipment and Survival	Nowra ..	6	Aircrew Officers and SD EX/AV Officers	A	
901517	Engineer Officers WE Refresher	CERBERUS ..	As arranged	WE Officers prior to taking up postings	A	
901518	Public Relations ..	Navy Office, Canberra	1	Officers nominated for public relations and press liaison duties	A	Course is conducted by DPR and is to be undertaken as soon as possible after selection for these duties
901519	Counter Subversion ..	Military Intelligence Centre, Mosman	10 days	Officers of the rank of Commander or Lieutenant-Commander	R	To train Instructors in counter subversion. RAN allocation is 2 officers per course
901520	Code of Conduct ..	Military Intelligence Centre, Mosman	6 days	Officers of the rank of Sub-Lieutenant to Commander	R	To emphasise the need for a code of conduct. RAN allocation is 2 officers per course
901521	Strategic Intelligence ..	Military Intelligence Centre, Mosman	40 days	Officers of the rank of Commander or Lieutenant-Commander	R	To instruct officers in Strategic Intelligence. RAN allocation is 1 officer per course
901522	Interrogation	Military Intelligence Centre, Mosman	3	All ranks	R NB	To instruct linguists and other potential members of Joint Service Interrogation Organisations in interrogation. RAN allocation is 1 member per course
901523	Short Hydrographic ..	UK	6	GLEX, SLEX, SDEX Officers	NB	
901524	Photogrammetry-Hydrographic	Aust. ..	8	GLEX, SLEX, SDEX Officers	NB	
901525	Bomb Mine Disposal ..	USA ..	20	GLEX, SDEX Officers of MCD Category	NB	
901526	Advanced Tactical Course	UK	4	GLEX Officers	NB	
901527	Underwater Medicine ..	RUSHCUTTER	3 days	Captains and Executive Officers of ships	A	Courses provided on application

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
NBCD						
901300X	Preliminary NBCD	.. CERBERUS ..	1	(a) Direct Entry Officers after Indoctrination (b) Midshipmen SLEX (Air- crew)	R	Routine Course. Nomina- tion by Naval Board
901301	Officers Advanced NBCD	PENGUIN ..	2	Officers posted as XO of small ships DCEO's and NBCDO's	R	Includes advanced firefight- ing. Additional courses can be arranged on ap- plication (nomination by ship or establishment)
901302	Combined Services Medical Officers	PENGUIN ..	5 days	Officers nominated by MDG and Officers of Defence Standards Laboratories	R	Deals with medical aspects of NBC warfare
901303	Passive Defence Officers Course	PENGUIN ..	2	Naval and Civilian Officers designated as PDO's for RAN Establishments	R NS	
901304X	Advanced Firefighting	.. PENGUIN ..	2 days	All officers	A NB	Course provided on applica- tion
901305X	Advanced Stability	.. PENGUIN ..	3 days	EO's and Shipwright Officers	A	
901306	Monitoring .. ..	.. PENGUIN ..	7 days	Officers posted as Monitor- ing Officers	A	Includes Officers advanced NBCD
901307X	NBCD Refresher	.. PENGUIN ..	1	All officers and Reserve Officers who have com- pleted Advanced Course	A	This course is also suitable to Senior Lieutenants and above of all branches prior to sea posting

11071/67-2
ND Subjects

901440	First Navigation Test for Promotion to LEUT RLEX	Reserve Train- ing Establish- ment	—	Acting Sub-Lieutenants RLEX	R	ABR 5054, Article 0524, Examination
901441	Second Navigation Test for Promotion to LEUT RLEX	WATSON ..	2	Sub-Lieutenants RLEX who have completed 901440	R	ABR 5054, Article 0525
901442	RANR AIO and Fleet- work	WATSON ..	2	Lieutenants RLEX seeking QO status who have com- pleted 901441	NB	ABR 5054, Article 0527
901443	Supplementary List Seaman Basic Navigation	WATSON ..	4	Midshipmen SLEX ..	R NB	
901444	Supplementary List Seaman Phase III AIO	WATSON ..	3	Midshipmen SLEX who have completed their Phase II training	R	
901445	Basic Aircrew Training AIO Acquaint	WATSON ..	3 days	Midshipmen SLEX (Air- crew)	NB	2 additional days are spent in TAS School
901446	Instructor Officers ND ..	WATSON ..	8	Instructor Officers during initial training	NB	4 Nav. 3 AIO
901447	Small Ships' ND Officers..	WATSON ..	3	General List Seaman Of- ficers posted to small ships for ND duties	A or NB	
901448	DL .. ..	.. WATSON ..	10	Selected GL or SL Lieute- nants or Sub-Lieutenants of Seaman or Air Traffic Control Branch with BWC's	R NB	Selected officers from this course will undergo AIC course in USA
901449	A/S Air Controllers	.. WATSON ..	3	Seaman Officers with con- siderable AIO experience	R NS	Includes 1 week at sea
901450	A/S Air Controllers	.. WATSON ..	4	Seaman Officers with no recent AIO experience, and Aircrew Observers	R	1 week AIO refresher, then join up with 901449

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
ND Subjects—continued						
901451	Helicopter Control	.. WATSON ..	4	Seaman Officers or other specially recommended officers	R	1 week AIO refresher, then join up with 901447
901452	Long Direction ..	.. UK ..	29	As selected by Naval Board	NB	
901453	Long Navigation	.. UK ..	29	As selected by Naval Board	NB	
901454	Advanced Direction	.. UK ..	13	As selected by Naval Board	NB	
901455	Advanced Navigation	.. UK ..	13	As selected by Naval Board	NB	
901456	Air Intercept Controller	.. USA ..	4	Selected officers from 901448	NB	
901457	Advanced Anti-air Warfare	USA ..	1	Selected G and D officers	NB	
Submarine Courses						
901460	Submarine Officers Course	UK ..	20	As selected by Naval Board	NB	
901461	Submarine First Lieutenants Qualifying	UK/Aust. ..	5	GLEX, SLEX Officers ..	NB	
901462	Submarine CO Qualifying	UK ..	15	GLEX-qualified First Lieutenants	NB	
Supply and Secretariat Subjects						
901800	Supply Charge and Advanced Secretariat	CERBERUS ..	14	General List Officers of the S branch of 4 years or more seniority as Lieutenant (see 901800—Promotion Section)	R NB	
901490	Special Duties List (W) Education and Acquaintance	CERBERUS ..	8	SD List Officers of the Supply and Secretariat (W) category	R	
901491	Special Duties List (S) Education and Acquaintance	CERBERUS ..	6	SD List Officers of the Supply and Secretariat (S) category	R NB	
901492	Supply and Secretariat Acquaintance	CERBERUS ..	2	Seaman or Engineer Officers nominated for Supply duties in small ships	A	
901493	Supply and Secretariat Refresher	CERBERUS ..	2	General List and Supply and Secretariat SD List Officers of Commanders rank and below	A	
901494	Basic Supply and Secretariat	CERBERUS ..	6 months	General List Sub-Lieutenants (S) on return from UK and Supplementary List (S) Officers on appointment	R NB	Preceded by 3 weeks indoctrination for SL Officers
TAS and Diving Subjects						
901420	Basic TAS	.. WATSON ..	1	RAN or RANR Junior Officers	R NB	
901421X	Refresher	.. WATSON ..	2	RAN General List Officers and RANR Officers who have completed 901420	R NS	
901422	TAS CO	.. WATSON ..	3	Officers performing duties of TAS CO in destroyers, destroyer escorts and frigates	A	
901424X	Tactical	.. WATSON ..	5 days	(a) Seaman specialists posted to HMA Fleet before taking up postings or as soon after as possible (b) Seaman specialists as convenient	A or NB	Additional courses can be provided at 3 weeks notice on application from FOCAF such courses will be promulgated by Loco-East message

APPENDIX A—continued

No.	Course	Place	Duration in Weeks	Officers for Whom Course is Applicable	NS/NB RA (See Note)	Remarks
901425	Diving Supervision	.. RUSHCUTTER	4	(c) Technical Officers posted to destroyers, destroyer escorts and frigates as in (a)	A	
901426	Long TAS Course	.. UK ..	46	Any officer of Sub-Lieutenant rank or above, of any branch or category	NB	
901427	Clearance Diving	.. Aust.	22	As selected by Naval Board GLEX Officers	NB	
901428	Mine Counter Measures— Diving Conversion	.. UK ..	8	As selected by Naval Board GLEX and SDEX Officers	NB	
901429	TAS Officer IKARA	.. WATSON/ WPD	As required	TAS Officers posted to fitted ships or RAN TAV	NB	
901430	MCD Conversion	.. WATSON ..	7	CD Officers as required	NB	

Notes on Officers Courses—

R—Indicates Routine Course.

A—Indicates that the course is provided on application.

NB—Nominations are made by the Naval Board.

NS—For RAN Officers. Nominations are to be made by the ship or establishment in which the officer is serving direct to the establishment in which the course is being held, giving as much notice as possible, the Administrative Authority and the Naval Board being informed as information addresses.

X—In the course, number indicates that results need not be reported and will not be recorded.

APPENDIX A—continued

Courses Available to Sailors

No.	Course	Location	Duration in Weeks
902301	MTD I	RAASC Puckapunyal	8
902310	MTD	ALBATROSS ..	6
902320	MTM	ALBATROSS ..	6
902330	Recruiting	LONSDALE .. HARMAN (NO)	9 days 5 days
902340	PO Leadership	CERBERUS ..	6
902350	Instructional Technique	CERBERUS ..	1
902360	Instructional Technique	WATSON .. ALBATROSS ..	1 1
902370	Efficient Reading	CERBERUS ..	1
902380	Moral Leadership	As arranged ..	2
902390	Standard NBCD	CERBERUS ..	1
902400	Standard NBCD	PENGUIN ..	1
902410	Advanced NBCD	PENGUIN ..	2
902420	NBCDO's Assistant	PENGUIN ..	2
902430	HET Preparatory	WATSON ..	8
902440	Shorthand Typist	Metropolitan Business College, Canberra	9 months
902450	Survival Swimming Refresher	CERBERUS ..	2 days
902460	Patrol Boat Coxswain	WATERHEN/ KUTTABUL	2
902470	ET I	As required ..	2
902480	Victualling Accounting	KUTTABUL ..	1

Courses Available to Members

903200	Diver	RUSHCUTTER	3
903210	Diver	LEEWIN ..	3
903220	Landfighting and Small Arms	ARMY/ CERBERUS	As required
903230	Lifesaving Equipment	ALBATROSS ..	2
903240	Boat Handling	PENGUIN/ CERBERUS	As required
903250	Jungle Training	Base Squadron, RAAF Amberley	2
903260	C of E Male Character Leadership	PENGUIN ..	1
903270	Protestant Male Character Leadership	PENGUIN ..	1
903280	RC Male Character Leadership	PENGUIN ..	1

APPENDIX A—continued

Collective Courses and Minor Training

Results not to be Reported

No.	Course	Location	Duration in Weeks
904000	Gun Control System (Gun Direction and Control Team)	CERBERUS ..	1
904010	DC Unit Course (Ships Team)	.. CERBERUS ..	1-2 days
904020	DC Unit (Ships Teams)	.. .. PENGUIN ..	1-2 days
904030	DC Repair (Ships Teams)	.. .. CERBERUS ..	1 day
904040	DC Repair (Ships Teams)	.. .. PENGUIN ..	1 day
904050	Monitoring (Ships Teams)	.. .. CERBERUS ..	1 day
904060	Monitoring (Ships Teams)	.. .. PENGUIN ..	1 day
904070	Decontamination (Ships Team)	.. .. CERBERUS ..	1 day
904080	Decontamination (Ships Team)	.. .. PENGUIN ..	1 day
904090	AIO Ships Basic AIO. Basic Plotting, Reporting and Voice Procedure	WATSON ..	1
904100	AIO DDG's, Darings, Battle Class Destroyers, Type 12 and Type 15 Frigates. Continuation Training. Pre-work-up Training	WATSON ..	1
904110	AIO DDG's, Darings, Battle Class Destroyers, Type 12 and Type 15 Frigates. Command Team Training	WATSON ..	2 days
904120	Carriers—As required	.. .. WATSON ..	As required
904130	NBCD Refresher Course	.. .. PENGUIN/ CERBERUS	1
904140	Fire Fighting (Sailors)	.. .. PENGUIN ..	1 day
904150	Crypto (Emergency Ships Team)	.. .. FOICEA/ CERBERUS	3 days
904160	Practical Fire Fighting	.. .. PENGUIN ..	1 day
904170	Advanced Fire Fighting	.. .. PENGUIN/ CERBERUS	1-2 days
904180	DDG, NBCD Familiarisation	.. .. PENGUIN ..	1-2 days
904190	Handling and Questioning of Prisoners	.. .. CERBERUS/ FOCAF	As required

Courses Available to WRANS

907300	WRRP (Nav. Yeo.)	.. .. WATSON ..	4
907310	WRRP (Film Assessor)	.. .. KUTTABUL ..	1

Wran Officers

907500	Communications Course	.. .. CERBERUS ..	8
		.. .. LONSDALE ..	1
		.. .. HARMAN ..	4
907510	NBCD and First Aid CERBERUS ..	1½

Courses Available to Submariners

908110	Navigators Yeoman WATSON ..	4
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Overseas

908010	S/M Training (including SETT, General and Application Courses)	UK ..	10-20
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APPENDIX A—continued

Courses Available to Seamen

TAS and Diving

No.	Course	Location	Duration in Weeks
911380	Minesweeping Equipment	.. .. WATSON ..	2
911390	Sonar Type 144/164	.. .. WATSON ..	2
911400	DCBA (Selected CABA and Clearance Divers)	PENGUIN ..	1
911410	Above-water Use and Maintenance of DCBA Equipment	PENGUIN ..	2 days
911420	Above-water Use and Maintenance of DCBA Equipment	CERBERUS ..	2 days
911430	Sonar Controller	.. .. WATSON ..	2
911440	Torpedo Control (UC)	.. .. WATSON ..	1
911450	Torpedo Maintenance (UW)	.. .. WATSON ..	2
911460	CABA/SSBA (Qualified Divers)	.. RUSHCUTTER ..	3 days
911470	Mining	.. .. WATSON ..	2 days
951290	Air UW Weapons	.. .. WATSON ..	3 days
951300	SQA 504	.. .. WATSON ..	1 day
951310	SQS 23	.. .. WATSON ..	1 day
911370	A/S Mortar Mark 10	.. .. WATSON ..	1

Courses Available to Seamen—Gunnery

911690	Close Range Weapons	.. .. CERBERUS ..	1
911670	4.5-in. Mark 6 and Turrent	.. .. CERBERUS ..	1
911480	Land Fighting and Small Arms (Ships Landing Party)	CERBERUS/ ARMY	1
911490	Gunners Yeo. Weapon Storekeeping	.. CERBERUS ..	1
911500	ABWM Patrol Craft G Maintenance	.. CERBERUS ..	1
911510	CPO/POWM Turret Maintenance (other than 5-in./54)	CERBERUS ..	1
911520	POQMG Parade Training and Weapon System Refresher	CERBERUS ..	1
911530	FC Rangetaker (FPS 3/MRS 3)	.. CERBERUS ..	1
911540	FC Below Layer/Trainer FPS 3	.. CERBERUS ..	1
911550	FC TIU Operator GDS2*GDS5	.. CERBERUS ..	1
911560	FC Clock Operator FPS 3/MRS 3	.. CERBERUS ..	1
911570	WM 4.5 No. 2	.. .. CERBERUS ..	1
911580	WM Capt. Turret 4.5-in. 5-in./54	.. .. CERBERUS ..	1
911590	WM Capt. Gunhouse 4.5-in. 5-in./54	.. .. CERBERUS ..	1
911600	QMG Director Layer all Systems	.. CERBERUS ..	1
911610	QMG Director Officer all Systems	.. CERBERUS ..	1
911620	QMG Director Trainer FPS 3	.. CERBERUS ..	1
911630	Seacat Aimer	.. .. CERBERUS ..	3
911640	Seacat Aimer Refresher	.. .. CERBERUS ..	As required
911650	Patrol Boat QMG (PO, LS, AB)	.. .. CERBERUS ..	1
911660	EE and H	.. .. CERBERUS ..	TBD
911670	Seacat Controllers	.. .. CERBERUS ..	TBD

Overseas (Series 81)

981000	EE and H	.. .. USA ..	14
981010	5-in./54 System	.. .. USA ..	15

APPENDIX A—continued

Courses Available to Seaman—RP's

No.	Course	Location	Duration in Weeks
911680	Helicopter Direction..	WATSON/SEA..	2/1

Overseas (81 Series)

981300	Air Intercept Controller	USA ..	4
981310	ASA Controller	USA ..	3

Courses Available to Communications Sailors

912000	Able Rank Refresher	CERBERUS	4
912010	Able Rank Refresher	KUTTABUL (STC)	4
912020	Fleetwork and Voice Refresher (CCY/CY)	FOICEA	1
912030	Fleetwork and Voice Refresher (CCY/CY)	CERBERUS	1
912050	Minesweepers Refresher (LTO and TO Sailors)	FOICEA	3 days
912060	Minesweepers Refresher (LTO and TO Sailors)	CERBERUS	3 days
912070	Minesweepers Refresher (LRO and RO Sailors)	FOICEA	1
912080	Minesweepers Refresher (LRO and RO Sailors)	CERBERUS	1
912090	RO Patrol Boat PCT	CERBERUS	1
912110	CRS, CCY, RS, CY Shore Radio Acquaint	HARMAN	1
912100	(S) Sailors Equipment Refresher	CERBERUS/ FOICEA	1

Overseas (82 Series)

982010	ECM Operator	USA ..	6
982020	UA/8/9/667 Operators	UK ..	5

Courses Available for Marine Engineering

913620	TOW	CERBERUS	10
913630	Bricklaying and Logging	CERBERUS	4
913650	Artificer Diver	RUSHCUTTER/ PENGUIN	8/1
913660	Advanced Welding	GID	TBD
913670	Y100 Machinery	CERBERUS	2
913680	Y100 Machinery	CERBERUS	1
913690	Deltic Machinery	WATERHEN	2
953000	Deltic Machinery	WATERHEN	1
953010	OFI Attendant	GID	3
953020	Earthmoving Equipment	ARMY	Varies
953040	Patrol Boat LME/ME Introduction	WATERHEN	1
953050	Patrol Boat ERA Introduction	WATERHEN	2
953060	Boiler Feed Water Testing, CERA/CMECH Qual. (RAN or USN System)	CERBERUS	6 days
953070	Boiler Feed Water Testing, LME/ME Qual. (RAN or USN System)	CERBERUS	5 days

APPENDIX A—continued

Overseas (83 Series)

No.	Course	Location	Duration in Weeks
983000	ACC	USA ..	6
983010	Refrigeration and Air Conditioning	USA ..	8
983020	Advanced Welding	USA ..	8
983030	Shipboard Firefighting	USA ..	8

Courses Available for Weapons Electrical—General

914100	JYA (Radar Aspects)	CERBERUS	3
914110	JYA (Cambria Plot)	CERBERUS	2
914120	Compass 2005	CERBERUS	2
914130	Compass 5005	CERBERUS	2
914140	Compass AGMC 6	CERBERUS	1½
914150	Compass Arma Brown	CERBERUS	1
914160	JDA and PAB	CERBERUS	2
914170	JW PPI	CERBERUS	1½
914180	IFF 10	CERBERUS	2
914190	Lambda Theory	CERBERUS	1
914200	Auto. Tel. Exchange	CERBERUS	1
914210	Servo Mechanism (without Computation)	CERBERUS	4
914220	Servo Mechanism (with Computation)	CERBERUS	6
914230	Auto Testing and Tuning	CERBERUS	2
914240	Transistor Theory	CERBERUS	4
914250	Digital Theory	CERBERUS	4
914260	Mark 19 Gyro	CERBERUS	4
914270	Patrol Boat for EMC qual. before 10/66	CERBERUS	11
914280	Patrol Boat for EMC qual. after 10/66	CERBERUS	8
914290	Patrol Boat for EMWE	CERBERUS	5
914690	TOW	CERBERUS	10

Sonar and ASW

914300	Sonar 170/MM 10	CERBERUS	4
914310	Sonar 170/MM 10 Acquaintance	CERBERUS	2
914320	Sonar 176	CERBERUS	1½
914330	Sonar 177	CERBERUS	6
914340	Ikara System Theory	CERBERUS	1
914360	Ikara Fin Test	CERBERUS/ WPD	TBD
914370	Ikara CSTE and FSE	CERBERUS/ WPD	TBD
914380	Launcher Handler	CERBERUS/ WPD	TBD
914390	Guidance Console GFSW 1	CERBERUS/ WPD	TBD
914400	Guidance Console GFSW 2 and 3	CERBERUS/ WPD	TBD
914410	Attack Console GFSW 1	CERBERUS/ WPD	TBD
914420	Attack Console GFSW 2 and 3	CERBERUS/ WPD	TBD
914430	Exdak (Ship)	CERBERUS/ WPD	TBD

APPENDIX A—continued
Sonar and ASW—continued

No.	Course	Location	Duration in Weeks
914440	Ikara Guidance Tx/Rx	CERBERUS/ WPD	TBD
914350	SAP Torpedoes	WATSON	3
914450	SAP M/S Shore Support	WATSON	2½ days
914460	Submarine Simulator 21B12	CRESWELL	6 weeks on the job training
914470	Sonar 162	CERBERUS	1
914480	Mark 14 Gyro	CERBERUS	1
914490	ARL Plotting Table	CERBERUS	1
914680	Echo Sounder 765	CERBERUS	1
Courses Available for Weapon Electrical Communication Section			
914500	A 618/ACAS	CERBERUS	1
914510	691 CUH	CERBERUS	1
914520	633 (HSR 21A)	CERBERUS	1
914530	RATT	CERBERUS	2
914540	T/T Maintenance (excludes RATT)	CERBERUS	5
914550	AN/URC 58	CERBERUS	3
914570	AN/URT 23V	CERBERUS	3
914580	R 1051	CERBERUS	2
914590	AN/WRC 1	CERBERUS	1
914600	AN/WRC 2	CERBERUS	1
914610	ANURA 17	CERBERUS	1 day
914620	LEM/C/EMC Shore Wireless	HARMAN	1
914630	POEC/SAC Shore Wireless	HARMAN	1
914640	CEC Org. and New Equipment	HARMAN	1
914650	601	CERBERUS	1
914660	602	CERBERUS	1
914670	603/605	CERBERUS	1
954060	625	CERBERUS	1
954070	629	CERBERUS	1
954080	622	CERBERUS	1
954090	1340	CERBERUS	1
954100	841	CERBERUS	1
954110	612	CERBERUS	1
954120	MTR 1	CERBERUS	1
954130	692/693	CERBERUS	2
954140	696	CERBERUS	1
954150	86M	CERBERUS	1
954160	87M	CERBERUS	1
Crypto			
954000	KW 26C	HARMAN	12
954010	KW 37R	CERBERUS	6
954020	KW 37T	HARMAN	2
954030	KW 7	CERBERUS	6
954040	KL 7	CERBERUS	1
954050	BID 610	CERBERUS	1

APPENDIX A—continued

Courses Available for Weapons Electrical Gun and Missile Systems

No.	Course	Location	Duration in Weeks
954210	CRBFD Mark 5	CERBERUS	2
954220	Medium Range System Mark 8	CERBERUS	2
954230	Flyplane Predictor System Mark 3 including AFCC Mark 12	CERBERUS	6
954240	Medium Range System Mark 3 and AFCB Mark 10	CERBERUS	2
954250	GDS 5 Mech. Aspects	CERBERUS	1
954260	4.5-in. Mark 6 and 6x	CERBERUS	3
954270	GDS 2x	CERBERUS	1
954280	GDS 5 Electrical Aspects	CERBERUS	2
954290	GDS Radio Aspects	CERBERUS	4
954300	Flyplane Predictor System Mark 3, GDS 2x and AFCC 12	CERBERUS	10
954310	Flyplane Predictor System Mark 3, GDS 2x and AFCC 12 (Acquaintance Course)	CERBERUS	3
954320	MRS 8 (without Radar)	CERBERUS	2
954330	Radar Type 262	CERBERUS	3
954340	MRS 3 with Predictor and AFCB 10 (Brief Introduction to Radar 903)	CERBERUS	10
954350	MRS 3 with Predictor and AFCB 10 (Brief Introduction to Radar 903 Acquaintance Course)	CERBERUS	3
954360	Radar 903 and MRS 3 (without Predictor)	CERBERUS	3
954370	Radar 903 and MRS 3 (without Predictor) (Radar only)	—	—
Radar			
964000	Type 974	CERBERUS	1
964010	Type 975	CERBERUS	1
964020	Type 978	CERBERUS	1
964030	Type LOW 2 (Theory only)	CERBERUS	2
964040	Type LWO 2	CERBERUS	2
964050	277	CERBERUS	2
964060	293	CERBERUS	2
964070	275	CERBERUS	3
964080	903	CERBERUS	4
Courses Available for Weapons Electrical—Power Distribution and Miscellaneous			
964300	AC Generation	CERBERUS	3
964310	Cathodic Protection	CERBERUS	3 days
964320	Minesweeping MAG and Acoustic	CERBERUS	As required
964330	Minesweeping Equipment	CERBERUS	1
964340	UA 3	CERBERUS	1
964350	AN SLR/2	CERBERUS	2
964360	UA 4	CERBERUS	TBD
964370	SPA 34/50	CERBERUS	3
964380	Hydraulics for LEM	CERBERUS	5
964390	T 2A	CERBERUS	4

APPENDIX A—continued

Courses Available for Weapons Electrical—Power Distribution and Miscellaneous—continued

No.	Course	Location	Duration in Weeks
964400	LORAN DAS 2	CERBERUS	1
964410	LORAN AN/UPN 12c	CERBERUS	1
964420	FM 12	CERBERUS	1
964430	FM 4	CERBERUS	2
964440	DC Ships Power Distribution	CERBERUS	2½
964450	Planned Maintenance	CERBERUS	1

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984010	GFCS 68—Fleet Maintenance	USA	4
984020	Tartar 118 System	USA	20
984030	Tartar Missile	USA	10-12
984040	Tartar Test Equipment	USA	8
984050	UDE	USA	14
984060	EE and H	USA	14
984070	GMLS 13	USA	24
984080	5-in./54 System	USA	15
984090	SPS 40	USA	8
984100	SPS 10	USA	3
984110	CIC Displays	USA	9
984120	T 2A Trainer and Instructor	USA	8
984130	SQS 23B	USA	12
984140	Mark 44 Torpedo	USA	8
984150	FC Tech. A	USA	5
984160	ML 118 Maintenance	USA	14
984170	BR 134	USA	10
984180	DST Class A	USA	10
984190	WDS ML 4 Maintenance Class C	USA	20
984200	AN/URC 32	USA	6
984210	WRT 2 and WRR 2	USA	6
984220	WLR 1/3	USA	8
984230	AN/SLQ 6	USA	2
984240	TACAN C	USA	4
984250	ET Class A	USA	5
984260	Loran	USA	2
984270	IFF 10	USA	6
984280	SPS 52	USA	28
984290	SPG 51B	USA	22
984300	CM 122DSM	USA	3
984310	CFCS 68 Maintenance Class C	USA	20
984320	DSM 54D and 55	USA	5
984330	T/M Ground Sta. Class C	USA	3
984340	ET Class B	USA	7
984350	WLR 1/3	USA	4
984360	Intac SPA 43 Hazeltine	USA	6
984370	EM Class B	USA	Various
984380	Mark 19 Gyro	USA	12
984390	SPA 34 and 50	USA	5
984400	Mark 18 System Maintenance (LEM)	USA	10
984410	FC Tech. Class A (Transistor Phase)	USA	2

APPENDIX A—continued

Courses Available for Weapons Electrical—Power Distribution and Miscellaneous—continued

No.	Course	Location	Duration in Weeks
984420	WLR 13	USA	2
984430	GRC 27 and 827/6 SCC—1A	USA	1
984440	GFCS 68	USA	18
984450	Interior Comms. Class B	USA	6
984460	Wind Instruments	USA	1
984470	TX/RX R 390	USA	1
984480	Air Conditioning/Refrig. Class C	USA	8
984490	Mark 47 Computer Class C	USA	8
984500	GFCS 68 Operation	USA	4
984510	Auto Telephone	USA	7

Courses Available for Air

915320	ORD NA and ORD NAM	ALBATROSS	1
915340	ALBATROSS/Carriers Met. Obs. Wind-finding including RATT	ALBATROSS	1
915350	ALBATROSS/Carriers LAMET Radio-sonde including BALMET	ALBATROSS	2
915360	Range Assessors	ALBATROSS	3
915370	SAR Divers	RUSHCUTTER ALBATROSS	3 9
915380	Weapons Photography	KUTTABUL	2
915390	Photographic Chart Reproduction	Du Pont Chemicals	1
915400	Aerial Photography for NAPHOT	ALBATROSS	1
915410	Aerial Photography for LAPHOT	ALBATROSS	2
915420	Fireman	ALBATROSS	4
915430	Air Traffic Control for POAAH	ALBATROSS	3

Courses Available for Air Engineering

916220	TOW	CERBERUS ALBATROSS	8 2
Aircraft Maintenance Course—			
916230	Skyhawk	ALBATROSS	TBD
916240	Tracker	ALBATROSS	TBD
916250	Iroquois	ALBATROSS	4
916260	Wessex	ALBATROSS	4
916270	Liquid Oxygen	ALBATROSS	1
916280	Aircraft Husbandry	ALBATROSS	1
916330	Aircraft Guided Weapons Course	ALBATROSS	6
916340	Aircraft Weapon Handling Course	ALBATROSS	1
Aircraft Armament Course—			
916290	Skyhawk	ALBATROSS	TBD
916300	Tracker	ALBATROSS	TBD
916310	Wessex	ALBATROSS	TBD
916320	Martin Baker Ejection Seats, BTRV and Drogue Gun Servicing	ALBATROSS	TBD

APPENDIX A—continued
Courses Available for Air Electrical

No.	Course	Location	Duration in Weeks
917220	Advanced Air Engineering Administration	ALBATROSS ..	2
Aircraft Air Weapons Course—			
917230	Skyhawk	ALBATROSS ..	TBD
917240	Tracker	ALBATROSS ..	TBD
917250	Wessex	ALBATROSS ..	TBD
917260	Iroquois	ALBATROSS ..	TBD
Aircraft Air Communications Course—			
917270	Skyhawk	ALBATROSS ..	TBD
917280	Tracker	ALBATROSS ..	TBD
917290	Wessex	ALBATROSS ..	TBD
917300	Iroquois	ALBATROSS ..	TBD
Skyhawk Specialised Equipment Course—			
917310	Communications Systems	ALBATROSS ..	TBD
917320	Radar	ALBATROSS ..	TBD
917330	Electrical	ALBATROSS ..	TBD
917340	Instruments	ALBATROSS ..	TBD
Tracker Specialised Equipment Course—			
917350	Communications Systems	ALBATROSS ..	TBD
917360	Radar	ALBATROSS ..	TBD
917370	ASW	ALBATROSS ..	TBD
917380	Electrical	ALBATROSS ..	TBD
917390	Instruments	ALBATROSS ..	TBD
Wessex Specialised Equipment Course—			
917400	Communications Systems	ALBATROSS ..	TBD
917410	Radar	ALBATROSS ..	TBD
917420	ASW	ALBATROSS ..	TBD
917430	Electrical	ALBATROSS ..	TBD
917440	Instruments	ALBATROSS ..	TBD
917450	Test Equipment and Servicing in Avionics Workshop—Various. To be decided	ALBATROSS ..	TBD
917210	Air Electrical Officers Writers Course	ALBATROSS .. CERBERUS ..	2 8
917460	Aircraft Maintenance Course—Aircraft Husbandry	ALBATROSS ..	1

Courses Available for Medical

918200	Laboratory Assistant	{ CERBERUS .. Public Hospital ..	12 44
918210	Laboratory Assistant	{ PENGUIN .. Public Hospital ..	12 44
918220	X-ray Assistant	{ CERBERUS .. Public Hospital ..	12 26
918230	X-ray Assistant	{ PENGUIN .. Public Hospital ..	12 26
918240	Operating Room Attendant	{ CERBERUS .. Public Hospital ..	12 16

APPENDIX A—continued
Courses Available for Medical—continued

No.	Course	Location	Duration in Weeks
918250	Operating Room Attendant	{ PENGUIN .. Public Hospital ..	12 16
918260	Aviation Medicine	ALBATROSS ..	26
918270	Advanced Nursing	{ CERBERUS .. Public Hospital ..	12 26
918280	Advanced Nursing	{ PENGUIN .. Public Hospital ..	12 26
918290	Masseur	CERBERUS ..	38
918300	Masseur	{ CERBERUS .. Public Hospital ..	12 26
918310	Masseur	{ PENGUIN .. CERBERUS ..	12 26
918320	Masseur	{ PENGUIN .. Public Hospital ..	12 26
918330	Underwater Medicine	RUSHCUTTER	26
918350	Advanced Dental Mechanic	United Dental Hospital, Sydney	1-2 years
918360	Hygiene Inspector	School of Army Health	39
918370	Chiropodist	Aust. Chiropodist Assn. Training Centre, Sydney	60
918380	Dispenser	CERBERUS ..	38
918390	Dispenser	PENGUIN ..	38

Courses Available for Supply

919020	William Angliss	William Angliss ..	12
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Overseas

989000	Storekeeper Class A	USA	6
989010	DDG Supply Admin.	USA	2
989020	Tartar Supply Indoctrination	USA	1

Courses Available for Regulating

Courses Available for Musician

APPENDIX B

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Numbering System and Conditions of Award		32-33
Series Index		33-34

APPENDIX B—continued

Pre-commissioning Training Courses

Numbering System and Conditions of Award

Description of the numbering system

The following explanation shows the system which will be used for numbering Promotion Courses, Non-promotion Courses, and Qualifications obtained other than by course—

- (a) *Six-figure numbers—first figure—example 9 11700.*

All six figure groups referring to courses will begin with the figure nine—9, i.e., 9 tells you that what follows describes the course, not the qualification, e.g., a sailor who passes course 9 11700 receives the qualification 11700.

- (b) *Five- and six-figure groups—Series indicator—9 11 700 or 11 700.*

The series indicator (11 in the example) shows the type of man to whom the qualification may normally be expected to apply. The series indicator is related to ABR 27 chapters. In the example it can be seen that we are dealing with a person governed by ABR 27, Chapter 11, i.e., a seaman. The only exception to this rule lies in the 99 series (e.g., 99011—passed Section I, Part I, for Able Rank) which shows promotion qualifications obtained other than by course.

A series index is on pages 33–34 of this Appendix.

- (c) *Promotion indicator—example 911700 or 11700.*

The promotion indicator (in this case 70), if between 70 and 99 indicates that the qualification is a promotion requirement and can only be obtained by promotion course, i.e., 11700 will be found on a sailor's papers when he has passed the course for promotion to Coxswain.

- (d) *Non-promotion indicator—example 911470 or 11470.*

The non-promotion indicator (in this case 47) if between 00 and 69 indicates that the qualification has been obtained by non-promotion course, by experience, or by a Test.

A 47 qualification falls in this bracket.

- (e) *Supplementary indicator—examples 14300–14304.*

The final digit indicates—

14300—holds the qualification obtained in the normal manner, i.e., by course if a course is available. This sailor has completed the Sonar 170/Mortar Mark 10 Course.

14301—Instructor. This sailor has qualified or has proved himself to be an efficient Instructor on Sonar 170/Mortar Mark 10.

14302—Recommended for employment as an Instructor on Sonar 170/Mortar Mark 10.

14303—Holds the qualification as a result of experience.

Note—(e) does not apply to Officers Courses.

APPENDIX B—continued

Conditions of award

The qualifications for sailors are obtained thus—

- (a) By satisfactory completion of a promotion course—awarded by the recognised examining school or body. No other authority may award this qualification, e.g., 11700—passed course 911700 for CPOCOX.
- (b) By satisfactory completion of non-promotion course—awarded by the recognised school or body—e.g., 11470—satisfactorily completed course 911470—Land Fighting and Small Arms Course.
- (c) By qualifying as an instructor or by demonstrating ability as an instructor—e.g., 14301 170/Mortar Mark 10 Instructor. This qualification can only be awarded as a result of passing an Instructor's Course in Sonar 170/Mortar Mark 10, or by a school in a Training Establishment where the sailor has acted as an instructor, and proved his ability.
- (d) By service which suggests instructional ability—e.g., 14302—recommended for employment as 170/Mortar Mark 10 Instructor. This indicator is to be awarded when it is considered that the sailor has both the technical and personal qualities to become a good instructor, but he has not been proved as an efficient classroom instructor.
- (e) By service—awarded by competent authority when that authority considers that a man has reached the desired level of skill. This is a **discretionary award**. Where a course in the skill is available, the qualification may be awarded when a man is considered to have reached a standard equivalent to that obtained by completion of the course, e.g., 14303—awarded to a sailor who has been employed on the Sonar 170/Mortar Mark 10 who is considered to have gained, by experience, the same knowledge and reached the same standard of competence as he would have had he completed course 914300—Sonar 170/Mortar Mark 10, Maintenance. Qualifications for officers, where a course or examination is available are not discretionary, and may only be awarded after satisfactory completion of the course or examination.

Series Index

Series	
01, 31, 41	.. Officers
02, 32, 42	.. Sailors
03, 33, 43	.. Members
04, 34, 44	.. Collective courses and minor training—results not to be reported
05, 35, 45	.. } Composite Qualification on Numbers
06, 36, 46	.. }
07, 37, 47	.. WRANS (including Officers)
08, 38, 48	.. Submariners
88 }
09, 39, 49	.. Submariners Overseas Training
10 }
11, 51, 61	.. Seamen
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82 Communicators Overseas Training
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RESTRICTED

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APPENDIX B—*continued*

Series Index—*continued*

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14, 54, 64 Weapons Electrical
84, 94 Weapons Electrical Overseas Training
74 Composite Qualifications
15, 55, 65 Air
85 Air Overseas Training
75 Composite Qualifications
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76 Composite Qualifications
86 Air Engineering Overseas Training
17, 57, 67 Air WE
77	..	.. Composite Qualifications
87	..	.. Air We Overseas Training
18, 58, 68	..	.. Medical
19, 59, 69	..	.. Supply
89	..	.. Supply Overseas Training
20	..	.. Regulating
21	..	.. Musician
22	..	.. Artisans
23	..	.. Submariners
99	..	.. Promotion qualifications not obtained by course

Unallocated 24, 25, 26, 27, 28, 29, 30, 40, 50, 60, 70, 71, 78, 79, 80, 90, 91, 92, 93, 94, 95, 96, 97, 98.

(DMT 311/201/247)

(*Navy Orders 659 of 1965, 653 of 1966 and 393 of 1967*)

ANO 398/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
13th September, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

M. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

398—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During June, 1967

The magazines, pamphlets and amendments to publications, etc., and SC Series contained in the Appendix to this order have been distributed to ships and services during June, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of "P" Series Amendments referred to in the Appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 8 .. ..	.. .. Change No. 3
BR 8 Add. No. 1 .. ..	.. .. Change No. 1
BR 70 .. ..	.. .. Cumulative Suppt. to 1967 Edition corrected to 28.2.1967
BR 125 .. ..	.. .. Suppt. No. 9 April, 1967
BR 125 .. ..	.. .. New Entries No. 9 April, 1967
BR 122 (1) .. ..	.. .. Recapit Suppt. No. 3, 3rd Edition Alphabetical List
BR 191 .. ..	.. .. Change No. 2
BR 217 (3A) .. ..	.. .. Change No. 1
BR 217 (3C) .. ..	.. .. Change No. 3
BR 226C (5) .. ..	.. .. Change No. An. 1 Folio 1A
BR 226C (7) .. ..	.. .. Change No. An. 1 dated 2.11.1966
BR 268 (2) .. ..	.. .. Change No. 1
BR 268 (28) .. ..	.. .. Change No. 1
BR 268 (57) .. ..	.. .. Change No. 1
BR 268 (62) .. ..	.. .. Change No. 3
BR 291/64 .. ..	.. .. Change No. 1
BR 875 .. ..	.. .. Change No. 5
BR 875 .. ..	.. .. Change No. 6
BR 875 .. ..	.. .. Change No. 7
DWB 1046 .. ..	.. .. Amendment No. 3 dated June, 1967
BR 1156 .. ..	.. .. Change No. 6
BR 1156 .. ..	.. .. Change No. 7
BR 1530 .. ..	.. .. Change No. 1
BR 1544 .. ..	.. .. Change No. 6
BR 1545 .. ..	.. .. Change No. 7
BR 1616 (1) .. ..	.. .. Change No. 3
BR 1709 (1) .. ..	.. .. Change No. 5
BR 1709 (1) .. ..	.. .. Change No. 6
BR 1709 (1) .. ..	.. .. Change No. 7

BR AMENDMENTS—continued

BR No.	Amendment No.
BR 1771 (34) .. ..	.. .. Change No. 1
BR 1771 (34) .. ..	.. .. Change No. 2
BR 1917 (1) A .. ..	.. .. Change No. 29
BR 2030 .. ..	.. .. Change No. 1
BR 2030 .. ..	.. .. Change No. 2
BR 2047 (A) 17 .. ..	.. .. Change No. 2
BR 2047 (A) 17 .. ..	.. .. Change No. 3
BR 2101 (1) .. ..	.. .. Change No. 12
BR 2101 (1) .. ..	.. .. Change No. 13
BR 2207 .. ..	.. .. Change No. 3
BR 2212 .. ..	.. .. Change No. 2
BR 2212 .. ..	.. .. Change No. 4
BR 2218 .. ..	.. .. Change No. 1
BR 2232 .. ..	.. .. Change No. 2
BR 2232 .. ..	.. .. Change No. 4
BR 2247 (3) .. ..	.. .. Change No. 1
BR 2304 .. ..	.. .. Change No. 6
BR 2304 .. ..	.. .. Change No. 7
BR 2305 .. ..	.. .. Change No. 2
BR 2305 .. ..	.. .. Change No. 3
BR 2305 .. ..	.. .. Change No. 4
BR 2305 .. ..	.. .. Change No. 5
BR 3001 .. ..	.. .. Change No. 14
BR 3001 .. ..	.. .. Change No. 15
MBR 8020 .. ..	.. .. Electronic Valve Spec. MOA/CU6113 Issue 1 dated 28.1.1967 Amendment No. 1
MBR 8020 .. ..	.. .. Services Manual of Preferred Valve Amendment No. 1 CU6113 dated December, 1966
MBR 8020 .. ..	.. .. Military Specs. CU7626, K1007/ CU7626 Issue 7 dated September, 1967, Semi-conductor Device D100E

SIGNAL CORRECTIONS

ACP No.	SC No.
ACP 117 (B) .. ..	.. .. SC 2/66 Correction 1/1-5/1

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Aeroplane .. ..	.. .. 22.3.1967
Aeroplane .. ..	.. .. 29.3.1967
Aeroplane .. ..	.. .. 5.4.1967
Aeroplane .. ..	.. .. 12.4.1967
Aircraft Special Edition .. ..	.. .. Report on TAA, June, 1967
Civil Defence Pamphlet .. ..	.. .. M-P 46 January, 1967
Joint Services Recognition Journal .. ..	.. .. Vol. 21 No. 11 November, 1966
Joint Services Recognition Journal .. ..	.. .. Vol. 21 No. 12 December, 1966

Joint Services Recognition Journal ..	Vol. 22 No. 1 January, 1967
Journal of the Institute of Navigation	Vol. 20 No. 2 April, 1967
HMSO List of Government Publications	February, 1967
NAMAN	April, 1967, Vol. 22 N2645-2650
Naval Ship Systems Command Technical News	May, 1967, Vol. 16 No. 5
Signal	April, 1967, Vol. 21 No. 8
The Communicator	Vol. 18 No. 4 Spring, 1967

USA NAVWEP PUBLICATIONS

Publication	Date
OP 1182 1st Review	Change No. 4 dated 15.3.1967
OP 2213 1st Review	Change No. 8 dated 1.4.1967
OP 2213	Change No. 6 dated 1.12.1966
OP 2213	Change No. 7 dated 15.12.1966
OP 2579 (PMS/SMS) Vol. 2	Advance Change Notice 0-1 dated 1.2.1967
OP 2585 Vol. 5	Change No. 2 dated 15.9.1966
OP 2665 Suppt. to Vol. 1	Change No. 1 dated 15.3.1967
OP 2665 Vol. 1	Change No. 4 dated 15.3.1967
OP 3010 (IMP) Vol. 4 Part 2	Advance Change Notice 8-1 dated 15.2.1967
OP 3010 (IMP) Vol. 4 Part 2	Advance Change Notice 9-1 dated 15.2.1967

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
109A-0001 } 0002 }	(AL 1099)-B 682 (Alt. 1 Inc.) (AL 1092)-B 726 (AL 1093)-B 727 (AL 1098)-B 730
109A-0001-5	AL 34
116B-0201-1	AL 10
116B-0304-1	AL 35 and Corrigendum
116B-0102-3ACD (formerly AP 2530M Vol. 3 (2nd Edition))	AL 5
116D-0166-3A (N)	AL 9
119A-0600-1	AL 78
AVP 30	AL 19
AVP 83	(AL 21)-Int. F 201 (Issue 1) Int. F 008 (Issue 2) (Nov. '66)
1086 Book 2 (2nd Edition)	AL 163, 165, 167, 168, 169 and 170
1086 Book 4 Part 1 (2nd Edition)	AL 180
1086 Book 4 Part 3 (2nd Edition)	AL 126 and 130
1086 Book 13 (2nd Edition)	AL 240
1182 (Naval) Vol. 1	AL 63
1182A (N) Vol. 1	AIL 1/67

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
1182C (Naval) Vol. 1	AL 51
1182C Vol. 4 Part 6	AL 57, 58, 59, 60, 61, 62, 63 and 67
1234D (2nd Edition)	AL 9
1275A Vol. 1 Section 18	AIL 1/67
1275A Vol. 1 Section 24	AL 135
1275A Vol. 3 Part 1 (N) Book 2	AL 19 and 20
1275G Vol. 1 Part 1 (2nd Edition)	AL 12 and 13
1355C Vol. 4 Part 6 (Office Copy)	AL 6
1469Q Vol. 5 Part 6 (Naval) (Issue 1)	AL 23
1538 Vol. 1	AL 62
1641H Vol. 2, Part 1	G 2
1641P Vol. 1 Part 2 Vol. 5	AL 74
1661 Vol. 2 Part 1	L 4
1661E Vol. 1 (2nd Edition)	AL 156
1661F Vol. 1	AL 162
1803E Vol. 1	AL 184 and 185
2173B Vol. 6 Parts 2 and 3	AL 12
2240A Vol. 2 Part 1	No. 172
2306M Vol. 2	(AL 33)-B 26
2337 Vol. 1 Book 1	AL 95
2337 Vol. 1 Book 2	AL 102 and 103
2337 Vol. 2	(AL 252)-B 1 (Alt. 2 Incorp.)
2337 Vol. 6	AL 97
2438G Vols. 1 and 6	AL 36
2487AB Vol. 2	(AL 29)-B 20
2531A and C Vol. 2	(AL 94)-B 78 (AL 95)-B 79
2531L Vol. 1	AL 22
2533K Vol. 3 Part 1 (N)	AL 6 (with O/L)
2535F Vol. 2	AL (RAN) 5 (Suppt. April '67)
2662B	AL 48
2802A (2nd Edition) Vol. 1 Parts 1 and 3	AL 60
2890SC Vol. 3 Part 1 (N) Book 1	AL 6
3276	AL 7 and 8
4117B Vols. 1 and 6 Book 1	AL 29
4303B Vol. 1 Book 1	AL 57
4303C Vol. 1	AIL 1/67 AIL 2/67 AIL 3/67 AIL 4/67 AIL 5/67 AIL 6/67
4343C Vol. 5 Part 6 (N) Issue 1 (Office and Working Copies)	AL 18
4343J Vol. 1	AL 12
4343M Vols. 1 and 6	AL 79 and 80
4343X Vol. 1 Book 1	AL 77
4471A Vol. 1 Part 2 Book 1	AL 189
4483A Vol. 1 Part 2 and Vol. 5	AL 60
4487D, E and F Vol. 5 (N) F/S Book 1	AL 17

AMENDMENTS TO AIR PUBLICATIONS—continued

<i>AP No.</i>	<i>AL or Leaflet</i>
4487D, E and F Vol. 5 (N) F/S Book 2 Issue 1	AL 27
4515C Vol. 3 Part 1 Section 2 Chapter 65	AL 5
4677A and B Vols. 1 and 6	.. AL 44
4717A Vols. 1 and 6	.. AL 14
4723 Vol. 6 Part 1	.. AL 31
4723 Vol. 6 Part 4	.. AL 42
AP (N) 76	.. AL 9
AP (N) 140	.. AL 33
AP (N) 1025	.. AL 66
AP (RAN) 8 Vol. 1 Book 1	.. AL 71, 72, 73, 74 and 75
AP (RAN) 8 Vol. 1 Book 3	.. AIL (RAN) 24
	.. AIL (RAN) 25
AP (RAN) 8 Vol. 2	.. AIL (RAN) 125
	.. AIL (RAN) 126
	.. AIL (RAN) 127
	.. AIL (RAN) 128
	.. AIL (RAN) 129
	.. AIL (RAN) 130
	.. AIL (RAN) 131
AP (RAN) 8 Vol. 3 Part 1	.. AL 15 and Errata to AL 15 Covers to TM Westland Wessex Mark 31 Aircraft
AP (RAN) 8 Vol. 3 Part 2	.. AL 76 and 77
AP (RAN) 8 Vol. 5 F/S Book 1	.. AL 17
AP (RAN) 8 Vol. 6 Part 3	.. AIL (RAN) 56
	.. AIL (RAN) 57
	.. AIL (RAN) 58
AP (RAN) 10 Vol. 2	.. AIL (RAN) 1
AP (RAN) 19 Vol. 1 Book 2	.. AL 11
AP (RAN) 19 Vol. 2 Book 1	.. AL 13 and 16
AP (RAN) 19 Vol. 5 Book 2	.. AL 36 and 38
AP (RAN) 101	.. AL 28
AP (RAN) 102 (Issue 2)	.. AL 27
Air Clues	.. No. 7 (Vol. 21) (April, 1967)
DCA Air Navigation Orders Part 48	.. AL 13 (15.3.67)
DCA Aeronautical Information Cir- cular	11/67 (1.4.67)
DCA Aeronautical Information Publi- cations	AGA AL 58 (Cat. A and C) (15.2.67)
	AGA AL 58 (Cat. East) (15.2.67)
	MAP AL 28 (Cat. A and C) (1.3.67)
	MAP AL 28 (Cat. East) (1.3.67)
	General AL 60 (Effective 1.6.67)
	RAC/2 (AL 83) (Cat. East) (15.2.67)
DCA Airways Operation Instructions Vol. 2 (2nd Edition)	AL 10 (1.5.67)
DCA Aviation Safety Digest	.. No. 49 (March, 1967)

AMENDMENTS TO AIR PUBLICATIONS—continued

<i>AP No.</i>	<i>AL or Leaflet</i>
DCA Notices to Airmen	.. 5/1967 (1.5.67)
	.. 6/1967 (1.5.67)
Gannet Modification Booklet	.. AL 17
RAN Retrospective Mod. Booklet	AL 8
Book 2	
RAN Retrospective Mod. Booklet	AL 8
Book 3	
Rolls Royce TSD Publication 594	.. Transmittal Letter No. 120
	.. Transmittal Letter No. 121
AAP No. 2 Table of Contents (17th Edition)	Sub AL 60 (AL 38403)
	Sub AL 61 (AL 38769)
AAP No. 2 GCC 5820 (7th Edition)	.. Sub AL 7 (AL 38753)
AAP No. 2 GCC 5930 (8th Edition)	.. Sub AL 9 (AL 38498)
AAP No. 2 GCC 5960 (6th Edition)	.. Erratum to Erratum of Sub AL 30 (AL 33646)
AAP No. 2 GCC 5970 (5th Edition)	.. Sub AL 7 (AL 32100)
AAP 702.50 Vol. 1	.. AL 8
AAP 702.50 Vol. 2 Part 1	.. AL 4
AAP 721.65 Vol. 2 Part 2	.. AL 198, 200 and 201
AAP 721.79 Vol. 2 Part 2	.. AL 350
RAAF Notices to Airmen Series "A"	No. 21 (1st December, 1966)
RAAF SCPO	.. 9/67 (23.3.67)
	.. 10/67 (3.4.67)

(D of V 465/57/674)





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
13th September, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A handwritten signature in cursive script, appearing to read "J. Handau".

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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401	Machinery Spares—Stowage and Accounting Arrangements in HMAS PLATYPUS.
402	Naval Stores—Class/Group 0443—Gas Cylinders—Increase in Filling Pressure.
403	Naval Stores—Electrical Contact Cleaner—Introduction.
404	Naval Stores General—Chaplains Equipment and Chapel Equipment—Policy.
405	Naval Stores General—Radar Type 975—Special Allowance of Modulator, Type FG 0626-580-1411.
406	Radar—Aerials—Radiating and Reflecting Elements—Painting by Ships Staff.
407	Reporting Losses of Stores.
408	Ventilation—Air Conditioning Type 12 Destroyer Escorts.
SECTION 5—BOOKS, CORRESPONDENCE, FORMS AND STATIONERY	
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410	Form AS 473—Cover for List of Equipment, Etc.—Revision.

Section 1 ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

399—Revised Supply Organisation

With reference to Navy Order 603 of 1966, the following responsibilities have been transferred, within the Supply Division, to the Navy Office Directors and Superintending Supply Officers (Sydney) indicated—

<i>Particulars of Responsibility</i>	<i>Director</i>	<i>SSO (Sydney)</i>
(a) Provision of the ranges of Stores included in the following Naval Store Class/Groups—		
(i) 0310—Canvas and canvas hose tubing.		
(ii) 0330—Cotton and other cloths, threads and twines, bunting, ensigns, etc.		
(iii) 0340—Manufactured canvas goods and flags.		
(iv) 0421/0422—Furniture, floor coverings, etc.		
(v) 0423—Musical instruments.		
(vi) 0451—Bedding, furnishings, etc.	D of V	SVSO
(b) Provision of publications (classified below CONFIDENTIAL), printed forms, stationery, office requisites and office machines.	D of V	SVSO
(c) Provision of aviation fuels . . .	DNS	SNSO
(d) Provision of motor transport vehicles and automotive spares (including tyres and tubes).	DMS	SMSO
(e) Motor transport administration, including proposals for new and replacement vehicles, review of running returns, processing of accident reports, etc.	DSAP	SSA
(f) Control of stocktaking and the processing of reports of stocktaking, losses, damages and discrepancies in shipments in respect of armament stores and victualling stores (in addition to naval stores, air stores and machinery spares already handled by DSAP).	DSAP	SSA
(g) Scales and allowances of air stores and machinery spares (in addition to naval stores already handled by DSAP).	DSAP	SSA

2. Correspondence and demands should be directed in accordance with the responsibilities set out above.

3. Items affected by the transfers should continue to be accounted for under present procedures in HMA ships and establishments, pending further instructions.

(C of S 2/51/59)

(Navy Order 603 of 1966)

Section 2 PERSONNEL

UNCLASSIFIED

400—Naval Artificer Apprentice Training

Approval has been given, with effect from the date of the introduction of the new scheme of training for apprentices, for the payment of the ordinary seaman rate of pay, including the special allowance of 40 cents per day, payable under NPI 38A, to all apprentices during the eighth term of training.

2. These apprentices will no longer be entitled to free replacement of uniform, but uniform allowance is payable.

3. The personal expense allowance of 8 cents per day payable under NPI 79 (4) will no longer be payable, nor will it be necessary to retain 50 cents per week as an accumulating credit in the apprentices' pay account under NPI 79 (2), and pay already deferred by this means may be payable on completion of formal training at HMAS NIRIMBA.

4. The title of apprentices during this eighth term of "on the job" training will not be changed, but they are to be afforded Able rank privileges.

5. The effective dates for those apprentices who commenced the eighth term of training this year is 16th January, for the December, 1966, "pass out", and 10th July for the June, 1967, "pass out" and the pay accounts of those effected should be adjusted accordingly.

6. NPI will be amended.

(HPB 186/201/6)

Section 4 EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

401—Machinery Spares—Stowage and Accounting Arrangements in HMAS PLATYPUS

It has been decided that submarines of the Fourth Submarine Division are to replenish stocks of "on board" spare gear from HMAS PLATYPUS instead of by demanding direct from the Machinery and Spares Depot, Sydney.

2. If items required by submarines are not available for issue from stocks held in HMAS PLATYPUS they are to be demanded from the Machinery and Spares Depot, Sydney, by HMAS PLATYPUS for issue to the submarines as necessary.

3. Navy Order 289 of 1967 is to be amended as follows—

Paragraph 4—

delete—

"Replenishment of 'on board' spares by submarines will be made direct from the Machinery and Spares Depot, Sydney, normally. However, in exceptional circumstances it may be necessary for submarines to obtain 'on board' spares from HMAS PLATYPUS in which event the following procedure is to apply—"

and *insert* the following in lieu—

"Submarines are to replenish stocks of spare gear from HMAS PLATYPUS. Issue of 'on board' spares to submarines from HMAS PLATYPUS is to be made as follows—".

4. ABR 4 is being amended.

(DSAP 1100/51/28)

(Navy Order 289 of 1967)

UNCLASSIFIED

402—Naval Stores—Class/Group 0443—Gas Cylinders—Increase in Filling Pressure

(DCI (RN) 1620/1966)

It has been decided to raise the filling pressures to which permanent steel gas cylinders (other than those used for aviation purposes) may be charged. Consequently gas cylinders previously charged to 1,800 psi will now be charged to a pressure of 1,980 psi. The relevant Period Contracts for filling will be amended.

2. Catalogue numbers and allowances will be unchanged. Details of the cylinders involved are shown in the Annex.

ANNEX

Catalogue No.

Description

L77237	Cylinder, Air, Compressed, charged, nominal capacity 100-cu.-ft.
L77239	Cylinder, Air, Compressed, charged, nominal capacity 200-cu.-ft.
L77241	Cylinder, Air Dry Breathing, charged, nominal capacity 120-cu.-ft.
L77243	Cylinder, Air Dry Breathing, charged, nominal capacity 165-cu.-ft.
L77245	Cylinder, Air Dry Breathing, charged, nominal capacity 200-cu.-ft.
L77247	Cylinder, Air Dry Breathing, charged nominal capacity 220-cu.-ft. (contractors cylinders).
L77301	Cylinder, Oxygen, Dry Breathing (99.5 per cent purity), charged, nominal capacity 120-cu.-ft.
L77303	Cylinder, Oxygen Dry Breathing (99.5 per cent purity), charged, nominal capacity 165-cu.-ft.
L77305	Cylinder, Oxygen, Dry Breathing (99.5 per cent purity), charged, nominal capacity 200-cu.-ft.

Catalogue No.	Description
L77307	Cylinder, Oxygen, Dry Breathing (99.5 per cent purity), charged, nominal capacity 240-cu.-ft.
L77319	Cylinder, Oxygen 32.5 per cent, Nitrogen 67.5 per cent, charged, nominal capacity 120-cu.-ft.
L77321	Cylinder, Oxygen 40 per cent, Nitrogen 60 per cent, charged, nominal capacity 120-cu.-ft.
L77323	Cylinder, Oxygen 40 per cent, Nitrogen 60 per cent, charged, nominal capacity 165-cu.-ft.
L77325	Cylinder, Oxygen 40 per cent, Nitrogen 60 per cent, charged, nominal capacity 220-cu.-ft.
L77327	Cylinder, Oxygen 60 per cent, Nitrogen 40 per cent, charged, nominal capacity 120-cu.-ft.
L77329	Cylinder, Oxygen 60 per cent, Nitrogen 40 per cent, charged, nominal capacity 165-cu.-ft.
L77331	Cylinder, Oxygen 60 per cent, Nitrogen 40 per cent, charged, nominal capacity 220-cu.-ft.

(DNS 512/80/299)

UNCLASSIFIED

403—Naval Stores—Electrical Contact Cleaner—Introduction

It has been decided to introduce a solvent for contact cleaning during maintenance of telephone type relays, automatic uniselectors, multibank switches and similar telephonic and electronic equipments.

2. The solvent, which will be supplied in aerosol dispensers, is capable of removing light oil deposits, dust and other contaminants from contact points of switches, contact breakers, relays, etc. The solvent is non-toxic, has high dielectric strength, is non-flammable and will not affect materials used in electrical construction.

3. The solvent will be available on demand from Naval Stores in 6-oz. aerosol containers as 6850-66-026-5117 CLEANING COMPOUND, SOLVENT.

(DNS 401/1/217)

UNCLASSIFIED

404—Naval Stores General—Chaplains Equipment and Chapel Equipment—Policy

The following is a summary of the current policy in respect of Chaplains Equipment and Chapel Equipment.

Chaplains Equipment

2. In lieu of specific provision from service stock an allowance is payable in respect of Communion Sets including Vestments. See ABR 5020 Instruction No. 122A.

Chapel Equipment*HMA Shore Establishments*

3. The supply of furniture and fittings is the responsibility of the churches.

HMA Ships

4. Supply from public funds of a limited range of furniture is authorised on the following scale—

Group/Class	Catalogue No.	Description	Quantity	Service
0421	735	Lectern, Oak	1 No.	HMAS MELBOURNE HMAS SYDNEY
0422	3050	Kneeler	1 No. for each seat provided in approved places of worship	HMAS MELBOURNE HMAS SYDNEY HMAS MORESBY HMAS STALWART HMAS SUPPLY Destroyers and Frigates (All Classes)
0421	3137	Organ, Ships	1 No. (see Note)	HMAS MELBOURNE HMAS SYDNEY HMAS STALWART HMAS MORESBY HMAS SUPPLY
0421	3138	Organ, small fold up	1 No. (see Note)	HMAS STALWART HMAS MORESBY HMAS SUPPLY Destroyers and Frigates (All Classes)

Note—HMA Ships STALWART, MORESBY and SUPPLY are allowed either a 0421-3137 or 3138 organ if required.

(DSAP 133/1/2)

UNCLASSIFIED

405—Naval Stores General—Radar Type 975—Special Allowance of Modulator, Type FG 0626-580-1411

Due to the failure of Modulator 0626-580-1411 and the fact that a spare modulator is not currently allowed to all HMA ships fitted with the Type 975 Radar as the sole navigational radar, it has been decided to extend existing allowances to these ships.

2. Subject to the above requirement, a demand should be raised on the appropriate store issuing authority for 1 No. Modulator 0626-580-1411. Demands should not hastened.

3. The extended allowances do not apply to Patrol Craft as issue of a modulator will be made to appropriate bases as necessary.

4. Establishment List E 1349 will be amended.

(DSAP 519/61/51)

UNCLASSIFIED

406—Radar—Aerials—Radiating and Reflecting Elements—Painting by Ships Staff

Reports from sea indicate that repeated painting of radiating and reflecting elements of radar aerials by ships staffs can eventually cause a significant falling off in range performance and an increase in the side lobe level.

2. If the design performance is to be achieved and maintained, the preparation and repainting of such aerial surfaces should be carried out using the correct type and quantity of paint, applied in accordance with the approved technique. Such repainting can only be undertaken efficiently by dockyards.

3. When deterioration of radiating and reflecting elements of radar aerials occurs to an extent where performance of the set is likely to be impaired, an item is to be inserted in the next main defect list giving details of such deterioration. Defect list action is not to be taken on appearance grounds alone.

4. In anticipation of dockyard defect action, ships staffs should take measures to arrest serious deterioration. In this case, where the existing paint or corrosion is to be removed, great care should be taken to minimise damage to the underlying surface. Chipping is not to be attempted; paint and varnish remover to specification DNC SP 685A is to be used and the affected areas touched up by an application of "Swift Vulc" paint. This item is dealt with under Class E, Group 7, as a non-pattern item. Such emergency treatment should be followed at the first opportunity by the correct treatment by dockyards.

5. These instructions are not intended to restrict the repainting of those parts of the radar aerials which do not affect technical performance. When such repainting is carried out either by ships staff or dockyard, it should be done in consultation with the Electrical Officer (or senior Electrical Branch sailor on board) or, in the case of dockyards, the appropriate professional officers.

6. In no circumstances are radomes to be painted or otherwise treated.

(ACMD 400/1/291)

UNCLASSIFIED

407—Reporting Losses of Stores

Instances have occurred recently in which there have been delays in reporting losses of stores. Attention is drawn to the necessity for Forms AS 126 to be prepared and forwarded to Navy Office as early as possible after completion of investigations. ABR 4 Articles 1402 (2)(f) and 1402A (1)(d) refer.

2. Where loss of stores is due to theft or suspected theft by Government officers or employees in commissioned establishments, the local Commonwealth Audit Inspector is to be advised as soon as possible in accordance with ABR 4 Article 1402 (2)(c)(i) and (ii).

(DSAP 400/51/238)

UNCLASSIFIED

408—Ventilation—Air Conditioning Type 12 Destroyer Escorts

A report has been received concerning furnace fuel oil vapours escaping from fuel tanks into the officers' cabin flat (3J) in Type 12 Destroyer Escorts, whilst fuelling.

2. Fuel oil vapours should only escape when manhole covers to fuel oil tanks are removed to facilitate dipping of tanks during fuelling, or when tanks are being cleaned.

3. Fuel oil vapours, being heavier than air, are displaced only by gradual dispersion by large quantities of air in vigorous circulation. To achieve this, the air conditioning system supplying the officers' cabin flat is to be changed to "full fresh air and exhaust" while the oil fuel tank manholes are open during fuelling or cleaning and the system is to remain on full fresh air and exhaust after the manhole covers have been replaced, and until all fuel oil vapours have been cleared.

4. This instruction applies also to any spaces in Type 12 DE's or other ships where oil fuel tanks open directly into air conditioned spaces.

(ACDC 1224/272/148)

Section 5**BOOKS, CORRESPONDENCE, FORMS AND STATIONERY**

UNCLASSIFIED

409—Control of Private Property Taken Into and Out of Dockyards

A new form, KP 100—Private Property Pass, has been introduced to ensure more effective control of private property taken in and out of dockyards where such property resembles that owned by the Commonwealth, e.g., tools, raw materials, electrical equipment, etc. The procedure to be adopted is as follows—

(a) When property is being taken into a dockyard, a member of the NDP will complete Form KP 100 in duplicate and hand the original to the owner who must produce it on demand and must surrender it at the dockyard gate when removing the goods from the dockyard. If only a portion of the property is removed, Form KP 100 should be appropriately endorsed and returned to the bearer. When the owner surrenders the pass, having taken out all his property, the duplicate form is to be cancelled.

(b) Sailors obtaining property at locations not subject to NDP control are to be issued with a Form KP 100 if they wish to take their property out of a dockyard. In this case the ship will issue the pass which must be surrendered at the dockyard gate. If the property is to be brought back into the dockyard again a new pass will be issued by the NDP.

2. Books containing 100 copies in duplicate are obtainable on demand from SVSO, Sydney.

(D/O & M 464/73/1)

UNCLASSIFIED

410—Form AS 473—Cover for List of Equipment, Etc.—Revision

It has been found that the current paper-enclosed cardboard version of Form AS 473, Cover for List of Equipment, etc., tends to deteriorate rapidly on becoming soiled. Because of this, a new plastic cover has been introduced for use where Lists of Equipment, etc., are likely to be handled by officers or sailors whilst also handling oily, greasy and/or dirty materials.

2. Until existing stocks of the old paper-enclosed cardboard covers are exhausted, the new plastic covers will be issued to ships, establishments and dock-yards only when specifically requested on demands. Existing covers are to be retained until worn out.

(DSAP 464/55/34)





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
18th September, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

M. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers
in Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

411—Safety—Danger of Loose Objects in Vicinity of Helicopter Transfers

A United States Naval Aviation Safety Magazine reported recently that a rag carelessly thrown over the side of a US Destroyer caused an attending helicopter to ditch. The rag had been sucked into the engine intake causing engine failure.

2. Ships companies are to be warned of the dangers of loose or flying objects in the vicinity of helicopters, and that light objects thrown overboard are often blown upwards and aft.

(CONS 177/1/95)

UNCLASSIFIED

412—Used Carbon Paper—Security Precautions

It has been brought to notice that used carbon paper can produce an imprint of the previous typing on copies of future work.

2. This matter has been investigated and it would appear that this could happen when correspondence involving a large number of copies is being typed, especially on thick paper. This increases the pressure between the rollers of the typewriter thus pressing previous typing on used carbon paper onto copies of the current work. This effect could be amplified if the machine happens to have rollers which are tighter than normal.

3. As this effect imposes a serious security weakness, in that classified information from a used carbon would appear subsequently on unclassified papers, it should be brought to the notice of all typists to ensure that when a large number of copies is required new carbon is used. Additionally all officers prior to signing correspondence should ensure that this effect is not present.

(DNI 1617/1/64)

Section 2

PERSONNEL

UNCLASSIFIED

413—Programme of Professional Tests for Promotion to SD List—November, 1967

The professional tests for promotion to Supply Sub-Lieutenant (S) and (W) will now be held on Tuesday, 21st, and Wednesday, 22nd November, 1967.

2. Navy Order 607 of 1966 should be amended accordingly.

(HPB 312/6/5)

(Navy Order 607 of 1966)

UNCLASSIFIED

414—RANR Training—GPV's and Other Local Craft—Instructions and Procedures Regarding Their Use

Navy Order 234 of 1966 is to be amended as follows—

Paragraph 6—

delete existing paragraph and insert the following in lieu—

- (a) Small Ships Command Certificate;
- (b) RANR Restricted Bridge Watchkeeping Certificate;
- (c) Ocean Navigation Certificate;
- (d) Experience in local training craft, not necessarily in command, during the previous twelve months;
- (e) Considered competent and qualified for the particular task by the local Naval authority.

(D of R 311/52/26)

(Navy Order 234 of 1966)

A

Section 4**EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

415—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 685/1967)

Propellant of the following lots and sub-lots is due for withdrawal having reached the age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 4104	.. SC/Z 008	.. Cartridges— QF 4.7-in., QF 4-in. (FA), QF 5.2-in. (SL), QF 4.5-in. (SL), QF 2-pdr.
RNC 4111	.. SC 048	.. Cartridges— QF 4.7-in., QF 4-in. (FA)
RNC 4059	.. SC 061	.. Cartridges— QF 4.7-in., QF 4-in. (FA), QF 5.25-in. (SL), QF 4.5-in. (SL)
RNC 4075 RNC 4110	.. } SC 103	.. Cartridges— QF 5.25-in., QF 4.7-in., QF 4.5-in., QF 4-in., QF 4.5-in. (SL)
RNC 4074 RNC 4123	.. } SC 122	.. Cartridges— QF 4.7-in., QF 4.5-in. (SL)
RNC 4056 RNC 4073 RNC 4092 RNC 4100	.. } SC 140	.. Cartridges— QF 5.25-in., Impulse Torpedo

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 4091	.. SC 150	.. Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 4067 RNC 4084 RNC 4101 RNC 4115 RNC 4131 RNC 4143	.. } NF 029	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 4085 RNC 4130	.. } NF 042	.. Cartridges— QF 4.7-in., QF 4-in., QF 4.5-in. (SL)
RNC 4070 RNC 4116 RNC 4117	.. } NF/S164-048..	.. Cartridges— QF 4.7-in., QF 4-in.
RNC 4102 RNC 4133	.. } NF/S168-048..	.. Cartridges— QF 4.7-in., QF 4.5-in. (SL)
RNC 4083	.. NF/S198-054..	.. Cartridges— QF 4.7-in., QF 5.25-in. (SL), QF 4.5-in. (SL)
RNC 4132	.. NF/S224-058..	.. Cartridges— QF 5.25-in. (SL)
RNC 4061 RNC 4076 RNC 4077 RNC 4078 RNC 4095 RNC 4096 RNC 4097 RNC 4112 RNC 4113 RNC 4114 RNC 4126 RNC 4127	.. } HSC/T 134-055	.. Cartridges— QF 2-pdr.
RNP 252 ..	.. SC 103	.. Cartridges— QF 5.25-in., QF 4.7-in., QF 4.5-in., QF 4.5-in. (SL)
RNP 251 .. RNP 268 ..	.. } SC 122	.. Cartridges— QF 4.7-in., QF 4.5-in. (SL)
RNP 250 .. RNP 267 ..	.. } SC 140	.. Cartridges— QF 5.25-in., Impulse Torpedo
RNP 249 ..	.. SC 150	.. Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNP 227 .. RNP 272 ..	.. } NF 029	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
RNP 258 ..	NF 042 ..	Cartridges— QF 4.7-in., QF 4-in., QF 4.5-in. (SL)
RNP 260 ..		
RNP 431R ..		
RNP 432R ..		
RNP 676R ..	NF 052 ..	Cartridges— QF 4.7-in., QF 4-in. (FA)
RNP 243 ..	NF 059 ..	Cartridges— QF 4.7-in., QF 4-in., QF 4.5-in. (SL)
RNP 262 ..	NF/S164-048 ..	Cartridges— QF 4.7-in., QF 4-in.
RNP 275 ..		
RNP 276 ..		
RNP 278 ..		
RNP 308R ..		
RNP 430R ..	NF/S168-048 ..	Cartridges— QF 4.7-in., QF 4.5-in. (SL)
RNP 261 ..	NF/S198-054 ..	Cartridges— QF 4.7-in., QF 4.5-in. (SL), QF 5.25-in. (SL)
RNP 273 ..		
RNP 280 ..		
RNP 274 ..	NF/S224-058 ..	Cartridges— QF 5.25-in. (SL)
RNP 2402 ..	SUK/XII ..	Motors Rocket A/C 3-in.
RNP 2407 ..		
MEC 132 ..	SC 103 ..	Cartridges— QF 5.25-in., QF 4.7-in., QF 4.5-in., QF 4-in., QF 4.5-in. (SL)
MEM 144 ..	FNHP-022 ..	Cartridges— QF 40/60 MM
MEM 168 ..		
MEM 169 ..		
MEM 170 ..		
MEM 183 ..		
MEM 184 ..		
BS 19551 ..	SUK 1.7-0.6 ..	Motor Rocket 2-in. Flare
BS 19552 ..		
BS 19553 ..		
BS 20620 ..		
BS 20621 ..		
BS 20623 ..		
BS 20624 ..		
X 612R ..	N/S 198-054 ..	Cartridges— QF 4.7-in. (SL), QF 4.5-in. (SL)
X 613 ..		
X 614 ..		
X 615 ..		
X 616 ..		
X 617 ..		
X 618 ..		
X 619 ..		

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
X 2470 ..	N/S 164-048 ..	Cartridges— QF 4-in. (FA)
X 2473 ..		
X 2474 ..		
X 2475 ..		
X 2476 ..		
X 2477 ..		
X 2478 ..		
X 2479 ..		
X 2481 ..		
X 2484 ..		
X 2485 ..		
X 2488 ..		
X 2489 ..		
X 2492 ..		
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X 3139 ..		
X 3140 ..		
X 3141 ..		
X 3142 ..		
X 3143 ..		
X 3144 ..		
2. Action to be taken by HMA ships, establishments and proof ranges		Return to RAN armament depot as early as practicable. If unable to comply within three months from date of this order report specially to DAS, NM and ER BR 862, Article 1126, refers.
3. Action to be taken at RAN armament depots		Declare for disposal. Propellant Acceptance Lists are to be amended.

UNCLASSIFIED

416—Naval Stores General (Group Class 5110)—Hand Tools, Edged, Non-powered—Change of Stock Numbers

The stock numbers of the undermentioned items have been changed as follows—

Old Identification No.		Item Name	New Identification No.	
Group Class	Catalogue Number		Group Class	Catalogue Number
5110	00-555-8276	Cutter, Pipe	5110	00-221-1049
5110	00-223-4992	Drill, Breast	5110	00-293-2524

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

(DSAP 506/71/591)

4 09/68 cancelled

UNCLASSIFIED

417—Officers' Mess Traps—Replacement Allowances—1967-68

Consequent on the revision of prices to be charged for mess gear, details of which have been promulgated, the authorised amounts to which free replacement of consumable items of Officers' Mess traps may be made for the financial year 1967-68 are as follows—

Mess	In Stationary Ships and Establishments	In Seagoing Ships
	\$	\$
Flag Officer	—	499.86
Commodore or Captain	218.81	262.58
Flag Captain	—	136.94
Commander or Lieutenant-Commander in charge of detached independent command	113.42	136.10
Wardroom		
Mess of one officer	30.77	36.92
Mess of two officers	57.32	68.79
For every officer in excess of two	14.61	17.53

2. All consumable stores drawn against the above allowances are to be valued at the prices shown in the "Official Memorandum—Fixed Issuing Price List for Mess Gear", dated 1st July, 1967.

3. Replacement allowances are to be calculated in accordance with ABR 93, Chapter 22, Paragraph 14.

4. Navy Order 404 of 1966 is hereby cancelled.

(D of V 914/52/114)

(Navy Order 404 of 1966)

410/68 cancelled. 418

UNCLASSIFIED

418—Sailors' Mess Utensils—Replacement Allowances—1967-68

Consequent on the revision of prices to be charged for mess gear, details of which have been promulgated, free replacement of consumable items of mess utensils will be allowed for Chief Petty Officers', Petty Officers' and Seamen's Messes in HMA ships and establishments during the financial year 1967-68 up to the following amounts—

	\$
(a) Chief Petty Officers and Petty Officers	5.83
(b) Other sailors	3.51
(c) WRANS when messes separately	5.83
(d) Apprentices and Junior Recruits when messes separately	3.51

2. All consumable stores drawn against the above allowances are to be valued at the prices shown in the "Official Memorandum—Fixed Issuing Prices for Mess Gear", dated 1st July, 1967.

3. Replacement allowances are to be calculated in accordance with ABR 93, Chapter 22, Paragraph 14.

4. Navy Order 405 of 1966 is hereby cancelled.

(D of V 914/52/114)

(Navy Order 405 of 1966)

7/1/01

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	Actual	Target
Program		
Total	100.00	100.00
Program A	30.00	30.00
Program B	70.00	70.00
Program C	10.00	10.00
Program D	20.00	20.00
Program E	10.00	10.00
Program F	10.00	10.00
Program G	10.00	10.00
Program H	10.00	10.00
Program I	10.00	10.00
Program J	10.00	10.00
Program K	10.00	10.00
Program L	10.00	10.00
Program M	10.00	10.00
Program N	10.00	10.00
Program O	10.00	10.00
Program P	10.00	10.00
Program Q	10.00	10.00
Program R	10.00	10.00
Program S	10.00	10.00
Program T	10.00	10.00
Program U	10.00	10.00
Program V	10.00	10.00
Program W	10.00	10.00
Program X	10.00	10.00
Program Y	10.00	10.00
Program Z	10.00	10.00

1. The information contained herein is for your information only. It is not to be used for any other purpose. This information is being furnished to you for your information only. It is not to be used for any other purpose. This information is being furnished to you for your information only. It is not to be used for any other purpose.

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Approved for Release by NSA on 05-08-2014 pursuant to E.O. 13526





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
25th September, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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422	Made-to-Measure Uniforms for Sailors at Melbourne, Sydney, Brisbane and Perth—1967-68.
423	Made-to-Measure Uniforms for WRANS Sailors at Melbourne—1967-68.
424	Naval Dockyard Police—Made-to-Measure Uniforms at Melbourne, Sydney and Perth—1967-68.
425	RANNS and WRANS Officers' Made-to-Measure Uniforms at Melbourne—1967-68.
426	RAN, RANR and ASCC Officers' and Chaplains' Made-to-Measure Uniforms at Melbourne, Sydney, Perth and Brisbane—1967-68.
427	Made-to-Measure Uniforms—Availability of Commonwealth Government Clothing Factory Representatives in Sydney and Brisbane for Try On of Completed Uniform.

Section 2 PERSONNEL

UNCLASSIFIED

419—Uniform and Clothing Issuing Prices—Annual Revision

The issuing prices of uniform and clothing have been revised with effect from 1st September, 1967. Copies of the pamphlet "Official Memorandum—Prices of Clothing, Etc., Maintained for Issue to Ships Companies", together with copies of the poster, showing the revised prices, have been distributed to all HMA ships and establishments. Further copies may be obtained, if required, on application to the Director of Victualling, Department of the Navy, Melbourne.

2. Copies of the poster are to be displayed in positions which will permit scrutiny by ships companies.

3. Details of arrangements made for the supply of made-to-measure garments are being promulgated in Navy Orders being issued concurrently with this order. Copies of the contracts have been distributed to HMA ships and establishments in the areas concerned.

4. Orders concerning sailors are being reprinted for posting on notice boards.

5. Navy Order 553 of 1966 is hereby cancelled.

(D of V 930/52/34)

(Navy Order 553 of 1966)

UNCLASSIFIED

420—Alteration of Braiding of Uniforms of WRANS Officers at Melbourne—1967-68

The following prices will be charged for the alteration of braiding of WRANS Officers' uniforms by the Commonwealth Government Clothing Factory, Miles Street, South Melbourne, during the period 1st August, 1967, to 30th June, 1968—

<i>Rank</i>	<i>Coat, Woman's</i>		<i>Shoulder Straps</i>	
	\$		\$	
On Promotion to—				
Third Officer	1.90		2.30	
Second Officer	2.70		2.30	
First Officer	2.65		2.30	
Chief Officer	2.70		2.30	
On Reversion to—				
Third Officer from A/Second Officer ..	2.25		2.30	
Second Officer from A/First Officer ..	2.35		2.30	
First Officer from A/Chief Officer ..	2.25		2.30	

Prices—Nett, FOB/FOR Melbourne.

2. Navy Order 554 of 1966 is hereby cancelled.

(D of V 930/52/34)

(Navy Order 554 of 1966)

UNCLASSIFIED

421—Alterations of Lacing of Uniforms, Etc., of RAN and RANR Officers at Melbourne and Sydney—1967-68

The prices applicable to alterations effected to RAN and RANR Officers' uniforms, etc., by official contractors, viz., Commonwealth Government Clothing Factory, Miles Street, South Melbourne, during the period 1st August, 1967, to 30th June, 1968, Segrave Pty. Ltd., 213 George Street, Sydney, during 11th July, 1967, to 30th June, 1968, and Evers and Cohen Pty. Ltd., during the period 12th July, 1967, to 30th June, 1968, are detailed in Appendixes A and B of this order.

2. Navy Order 555 of 1966 is hereby cancelled.

APPENDIX A
Alteration of Lacing of Uniforms, Etc.

	Rank	CGCF		Evers and Cohen Pty. Ltd.		Segrave Pty. Ltd.	
		Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps
On Promotion to—		\$	\$	\$	\$	\$	\$
Lieutenant	4.60	4.75	5.45	3.33	4.51	3.20
Lieutenant-Commander	5.35	2.90	6.78	3.20	5.90	3.94
Commander	5.95	3.00	8.04	3.33	6.72	3.94
Captain	8.20	3.00	8.62	3.33	7.24	3.94
Commodore	12.50	6.60	—	—	—	—
Rear-Admiral (from Captain)	10.75	19.10	—	—	—	—
Rear-Admiral (from Commodore)	14.75	19.10	—	—	—	—
Vice-Admiral (from Rear-Admiral)	6.40	5.25	—	—	—	—
With Distinction Cloth between Lace	As above	As above	As above	As above	Additional \$0.30 per uniform	—
Removal of gorget patch from shoulder straps of Midshipmen and relacing to rank of A/Sub-Lieutenant	2.90	—	—	—	—	—
Replacement of collar of Coat, Undress, of Midshipmen—Cloth, Wool, Serge No. 2	2.08	—	—	—	—	—
Cloth, Wool, Venetian No. 1	2.25	—	—	—	—	—

Rank	CGCF		Evers and Cohen Pty. Ltd.		Segrave Pty. Ltd.	
	Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps
On Promotion to—continued	\$	\$	\$	\$	\$	\$
Replacement of peak of cap on promotion to—						
Commander	8.05	—	—	—	—	—
Rear-Admiral	12.10	—	—	—	—	—
Replacement and sewing on of buttons on promotion to Rear-Admiral—						
Coat, Undress	2.50	—	—	—	—	—
Jacket, Mess, blue	2.05	—	—	—	—	—
Vest, Mess, blue	1.15	—	—	—	—	—
Removal of letter " R " from Lacing of reserve Officer's Uniform on transfer to the RAN	0.50	—	—	—	—	—
On Reversion to—						
Sub-Lieutenant (from A/Lieutenant)	—	—	3.80	2.15	2.40	2.24
Lieutenant (from A/Lieutenant-Commander)	3.15	2.25	5.18	2.48	3.65	2.80
Lieutenant-Commander (from A/Commander)	5.35	2.70	6.55	3.03	4.87	3.36
Commander (from A/Captain)	5.85	2.25	5.18	2.48	2.40	2.80
Captain (from Commodore)	14.70	6.40	—	—	—	—

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With Distinction Cloth between Lace—						
Sub-Lieutenant (from A/Lieutenant)	} As above }	}	4.00	2.15	2.70	2.54
Lieutenant (from Lieutenant-Commander)			5.18	2.48	3.95	3.10
Lieutenant-Commander (from A/Commander)			6.55	3.03	5.17	3.66
Commander (from A/Captain)			5.18	2.48	2.70	3.10
Captain (from Commodore)			—	—	—	—
Replacement of peak of cap on reversion to—						
Lieutenant-Commander (from A/Commander)	1.10	—	—	—	—	—
Commodore or Captain (from A/Rear-Admiral)	7.45	—	—	—	—	—
Replacement and sewing on of buttons on reversion to Commodore or Captain—						
Coat, Undress	2.35	—	—	—	—	—
Jacket, Mess, blue	1.90	—	—	—	—	—
Vest, Mess, blue	1.05	—	—	—	—	—

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APPENDIX B

Relacing of Uniforms, Etc. (i.e., Where Removal of Old Lace is Involved)

Rank	CGCF		Evers and Cohen Pty. Ltd.		Segrave Pty. Ltd.	
	Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps	Coat, Undress, and Jacket, Mess	Shoulder Straps
	\$	\$	\$	\$	\$	\$
Sub-Lieutenant	7.05	4.20	9.24	6.45	8.41	6.61
Lieutenant	9.60	4.75	9.50	6.47	11.44	7.17
Lieutenant-Commander	11.60	5.60	12.46	8.75	13.70	8.50
Commander	12.15	5.75	12.77	9.04	14.48	7.73
Captain	14.75	6.50	14.28	9.95	16.95	8.29
Commodore	12.35	5.85	—	—	—	—
Rear-Admiral	14.20	—	—	—	—	—
Vice-Admiral	17.00	—	—	—	—	—
With Distinction Cloth between Lace—						
Sub-Lieutenant	} As above	}	9.79	6.67	8.71	6.91
Lieutenant			10.05	6.96	11.74	7.47
Lieutenant-Commander			13.00	8.97	14.00	8.80
Commander			13.32	9.26	14.78	8.03
Captain			14.83	10.17	17.25	8.59
Commodore			—	—	—	—
Rear-Admiral			—	—	—	—
Vice-Admiral	—	—	—	—		
Additional cost for letter "R" or "A" to be inserted in the curl of the lace	1.00	—	0.50	—	0.50	—

Note—(a) The prices of all alterations effected by the Commonwealth Government Clothing Factory include the cost of distinction cloth between the lace where required.

(b) Segrave Pty. Ltd., the Primary Contractor in Sydney, is to be used for official orders.

(c) Evers and Cohen Pty. Ltd., the Secondary Contractor, is to be used as an alternative for private orders.

Prices—Commonwealth Government Clothing Factory—Nett, FOB/FOR Melbourne. Evers and Cohen Pty. Ltd.—Nett.

(D of V 930/52/34)

(Navy Order 555 of 1966)

UNCLASSIFIED

422—Made-to-Measure Uniforms for Sailors at Melbourne, Sydney, Brisbane and Perth—1967-68

The official contractors for made-to-measure uniforms for RAN sailors for 1967-68 are—

Melbourne	.. Commonwealth Government Clothing Factory, Miles Street, South Melbourne, Victoria. 3205
Sydney	.. Evers and Cohen 16-22 Wentworth Avenue, Sydney, New South Wales. 2000
Perth	.. Associated Tailors Pty. Ltd., 193 William Street, Perth, Western Australia. 6000
Brisbane	.. M. Leiboff and Son, 55 Brunswick Street, Fortitude Valley, Brisbane, Queensland. 4006

2. The prices which will operate in Sydney, Brisbane and Perth during the period 1st July, 1967, to 30th June, 1968, and in Melbourne during the period 1st August, 1967, to 30th June, 1968, are as follows—

Sailors, Class I, II and III

Item	CGCF, Melbourne	Evers and Cohen, Sydney	Associated Tailors Pty. Ltd., Perth	*M. Leiboff and Son, Brisbane
	\$	\$	\$	\$
BLAZER, MAN'S, cloth, wool, flannel, worsted, blue, single breasted, pockets unbadged, Junior Recruits (topmen) ..	—	—	20.00	—
COAT, MAN'S, cloth, wool, serge No. 2, double breasted, with gilt buttons, CPO	28.10	27.98	27.00	36.10
COAT, MAN'S, cloth, wool, serge No. 2, double breasted, with gilt buttons, PO	27.70	27.30	26.50	35.70
COAT, MAN'S, cloth, wool, serge No. 2, double breasted, with gilt buttons, w/o cuff buttons, NAA	—	27.38	—	—
COAT, MAN'S, cloth, wool, serge No. 2, double breasted, with gilt buttons, CPO, SCC	—	27.07	—	—
COAT, MAN'S, cloth, wool, serge No. 2, double breasted, with gilt buttons, PO, SCC	—	26.80	—	—
COAT, MAN'S, drill, white, with blue facings, w/o buttons	5.35	—	—	—
COAT, MAN'S, drill, white, with gilt buttons, CPO	6.30	—	—	14.79
COAT, MAN'S, drill, white, with gilt buttons, PO	5.50	—	—	14.70
COAT, MAN'S, drill, white, w/o buttons, Class I and III, NAA	5.00	8.53	—	14.20

* For supply of private orders only.

Item	CGCF, Melbourne	Evers and Cohen, Sydney	Associated Tailors Pty. Ltd., Perth	*M. Leiboff and Son, Brisbane
	\$	\$	\$	\$
COAT, MAN'S, drill, white, with buttons, Class I and III, NAA	—	9.10	—	—
JACKET, MAN'S, cloth, cotton, twill, working dress	8.40	—	—	—
JACKET, MAN'S, cloth, wool, serge No. 1, working dress	11.05	20.18	—	—
JACKET, MAN'S, cloth, wool, serge No. 2, working dress	11.95	—	—	—
JUMPER, MAN'S, cloth, wool, serge No. 1	7.75	14.50	9.50	—
JUMPER, MAN'S, drill, white	3.45	9.79	—	—
OVERCOAT, MAN'S, with gilt buttons	—	31.52	32.00	—
OVERCOAT, MAN'S, with horn buttons	—	30.31	30.00	—
RAINCOAT, MAN'S, sailor	26.95	—	—	—
TROUSERS, MEN'S, action working ..	5.50	—	—	—
TROUSERS, MEN'S, cloth, wool, flannel, worsted, grey, Junior Recruits (Topmen)	—	—	10.50	—
TROUSERS, MEN'S, cloth, wool, serge No. 1, Class II	8.30	10.56	10.00	—
TROUSERS, MEN'S, cloth, wool, serge No. 1, gymnastic	8.05	—	—	—
TROUSERS, MEN'S, cloth, wool, serge No. 1, working dress	10.35	14.83	—	—
TROUSERS, MEN'S, cloth, wool, serge No. 2, Class I and III	10.30	—	10.50	13.36
TROUSERS, MEN'S, cloth, wool, serge No. 2, working dress	11.25	—	—	—
TROUSERS, MEN'S, drill, white, Class I and III	4.20	6.36	—	8.59
TROUSERS, MEN'S, drill, white, NAA	—	6.36	—	—
TROUSERS, MEN'S, drill, white, Class II	4.40	6.78	—	—
Extra Charges—				
Sewing on of badge, chevrons, etc. ..	—	1.25 per garment	0.50 each	—
Taping on bottoms of Class II trousers	—	—	0.50 pair	—
Sewing on shoulder flash, Australia ..	—	—	0.50 per coat	0.82 per coat
Affixing letters "R" and "SC" ..	—	—	—	R 1.00 per coat SC 1.50 per coat

* For supply of private orders only.

UNCLASSIFIED

425—RANNS and WRANS Officers' Made-to-Measure Uniforms at Melbourne—1967-68

The official contractors for made-to-measure uniforms for RANNS and WRANS officers for 1967-68 are listed in the following Appendixes—

Melbourne—

Appendix A (WRANS officers only) Commonwealth Government Clothing Factory, Miles Street, South Melbourne, Victoria. 3205

Prices operative during the period 1st August, 1967, to 30th June, 1968.

Melbourne—

Appendix B I. L. Wise, 360 Little Bourke Street, Melbourne, Victoria. 3000

2. The terms of the contracts are as follows—

Commonwealth Government Clothing Factory Nett, FOB/FOR Melbourne.
I. L. Wise 2½ per cent within 30 days.

3. The conditions governing the purchases of uniforms under these contracts are contained in ABR 93, Chapter 26.

4. Navy Order 559 of 1966 is hereby cancelled.

APPENDIX A

COMMONWEALTH GOVERNMENT CLOTHING FACTORY

Made-to-Measure Uniforms for WRANS Officers

1967-68

Item	Price
	\$
COAT, WOMAN'S, cloth, wool, baratheia No. 1	30.20
COAT, WOMAN'S, cloth, wool, serge No. 2	28.95
COAT, WOMAN'S, cloth, wool, venetian No. 1, doeskin	34.90
GREATCOATS, WOMAN'S, officer, with shoulder straps	37.20
SHOULDER STRAPS, WRANS (plain)	2.20
SHOULDER STRAPS, WRANS, mess dress (plain)	3.10
SKIRT, WOMAN'S, cloth, wool, baratheia No. 1	9.15
SKIRT, WOMAN'S, cloth, wool, serge No. 2	8.35
SKIRT, WOMAN'S, cloth, wool, venetian No. 1, doeskin	12.20

Braiding—Per coat and per pair shoulder straps for—

	\$
Chief Officer	2.80
First Officer	2.70
Second Officer	2.35
Third Officer	1.90

APPENDIX B

I. L. WISE, MELBOURNE

Made-to-Measure Uniforms for RANNS and WRANS Officers

1967-68

Item	Price
	\$
UNIFORM, baratheia	39.50
UNIFORM, superfine	47.50

Notes—

(a) Attaching shoulder flashers Australia to WRANS officers' coats \$0.65 per coat

(b) Attaching becketts to WRANS officers' coats .. \$0.55 per coat

(c) Lacing of coats (WRANS)—

Chief Officer \$5.10 per coat

First Officer \$5.04 per coat

Second Officer \$4.04 per coat

Third Officer \$3.00 per coat

(D of V 930/52/34)

(Navy Order 559 of 1966)

UNCLASSIFIED

426—RAN, RANR and ASCC Officers' and Chaplains' Made-to-Measure Uniforms at Melbourne, Sydney, Perth and Brisbane—1967-68

The official contractors for made-to-measure uniforms for RAN and RANR officers and Chaplains for 1967-68 are listed in the following Appendixes—

Sydney—

Appendix A—RAN, RANR and ASCC officers Evers and Cohen Pty. Ltd., 16-22 Wentworth Avenue, Sydney, New South Wales, 2000

Appendix B—RAN, RANR and ASCC officers Christies Pty. Ltd., 275 Pitt Street, Sydney, New South Wales, 2000

Appendix C—Chaplains .. Evers and Cohen Pty. Ltd., 16-22 Wentworth Avenue, Sydney, New South Wales, 2000

Perth—

Appendix D—RAN, RANR and ASCC officers Associated Tailors Pty. Ltd., 193 William Street, Perth, Western Australia, 6000

Melbourne—

Appendix E—RAN, RANR and ASCC officers I. L. Wise, 360 Little Bourke Street, Melbourne, Victoria, 3000

Appendix G—RAN, RANR and ASCC officers Commonwealth Government Clothing Factory, Miles Street, South Melbourne, Victoria, 3205

Appendix H—Chaplains .. Commonwealth Government Clothing Factory, Miles Street, South Melbourne, Victoria, 3205

Brisbane—

Appendix F—RAN, RANR and ASCC officers M. Leiboff and Son, 95 Brunswick Street, Fortitude Valley, Brisbane, Queensland, 4006

APPENDIX B
CHRISTIES PTY. LTD., SYDNEY
Made-to-Measure Uniforms for Officers
1967-68

Rank	Cloth, Wool, Serge No. 2		Cloth, Wool, Venetian No. 1	
	Coat, Undress,	Jacket, Mess	Coat, Undress	Jacket, Mess
	\$	\$	\$	\$
RAN				
Sub-Lieutenant	47.10	36.33	58.68	51.78
Lieutenant	47.10	36.33	58.68	51.78
Lieutenant-Commander	50.53	37.13	62.13	52.58
Commander	53.98	37.93	65.60	53.38
Captain	56.57	37.86	68.13	54.18
RANR				
Sub-Lieutenant	47.10	36.33	58.68	51.78
Lieutenant	47.10	36.33	58.68	51.78
Lieutenant-Commander	50.53	37.13	62.10	52.58
Commander	53.98	37.93	65.60	53.38
ASCC				
Sub-Lieutenant	42.66	34.53	54.03	49.98
Lieutenant	42.66	34.53	54.03	49.98

\$

TROUSERS, MEN'S, Officer, cloth, wool, Venetian No. 1 .. 24.69 per pair

TROUSERS, MEN'S, Officer, cloth, wool, Serge No. 2.. 17.04 per pair

Note—Secondary Contractor—To be used as an alternative for private orders.

APPENDIX C
EVERS AND COHEN PTY. LTD., SYDNEY
Made-to-Measure Uniforms for Naval Chaplains
1967-68

Item	Price
	\$
COAT, MAN'S, UNDRRESS, black serge cloth (without gold lace) ..	35.04
TROUSERS, MEN'S, black serge cloth	13.16

APPENDIX D
ASSOCIATED TAILORS PTY. LTD., PERTH
Made-to-Measure Uniforms for Officers
1967-68

All Ranks	Cloth, Cotton, Drill, White	Cloth, Wool, Serge No. 2	Cloth, Wool, Venetian No. 1
	\$	\$	\$
COAT, MAN'S, drill, white, officer, with gilt buttons	14.00	—	—
COAT, MAN'S, drill, white, officer, without buttons	12.50	—	—
COAT, MAN'S, UNDRRESS, Officer (Unlaced) ..	—	38.50	47.00
TROUSERS, MEN'S, Officer	7.00	12.50	17.50

Notes—Additional costs for—

(i) Affixing gold lace to Coat, Undress—

Rank		Machine Sewn	Hand Sewn
		\$	\$
Sub-Lieutenant	per coat	4.50	5.00
Lieutenant	per coat	7.00	7.50
Lieutenant-Commander	per coat	8.75	9.50
Commander	per coat	9.50	10.50
Captain	per coat	12.00	13.00

(ii) Alteration of Lacing consequent upon Promotion or Reversion—

Rank		Machine Sewn	Hand Sewn
		\$	\$
Sub-Lieutenant	per coat	—	7.50
Lieutenant	per coat	—	10.00
Lieutenant-Commander	per coat	—	12.00
Commander	per coat	—	13.00
Captain	per coat	—	15.50

(iii) Affixing letter "R" or "A" \$1.00 per uniform

(iv) Affixing distinction cloth between lace when required \$2.50 per strip

(v) Affixing shoulder flashes Australia on coats and jackets \$0.50 per coat

APPENDIX E
I. L. WISE, MELBOURNE
Made-to-Measure Uniforms for Officers
1967-68

<i>All Ranks</i>	<i>Cloth, Wool, Venetian No. 1</i>	<i>Cloth, Wool, Serge No. 2</i>
	\$	\$
UNIFORM, UNDRESS (Unlaced)	59.50	46.50
JACKET, MAN'S, MESS, Officer	35.70	—
VEST, MAN'S, MESS, Officer	15.22	—
TROUSERS, MEN'S, MESS, Officer	19.00	—

Note—Additional costs for—

(i) Affixing gold lace to Undress Coats and Mess Jackets—

	<i>RAN</i>	<i>ASCC</i>
	\$	\$
Captain	12.19	—
Commander	10.04	—
Lieutenant-Commander	9.46	9.52
Lieutenant	7.89	7.95
Sub-Lieutenant	5.74	5.80
Midshipman (Turnbacks) (Gorget Patches)	1.75	—
(ii) Affixing letters "R" or "A"		65 cents per uniform
(iii) Affixing shoulder flashes Australia (Gold)		40 cents per uniform
(iv) Sewing on of medal ribbons		30 cents per ribbon
(v) Sewing on of distinctive cloth—		
Captain		25 cents per uniform
Commander		20 cents per uniform
Lieutenant-Commander		20 cents per uniform
Lieutenant		20 cents per uniform
Sub-Lieutenant		20 cents per uniform

APPENDIX F
M. LEIBOFF AND SON, BRISBANE
Made-to-Measure Uniforms for Officers
1967-68

<i>All Ranks</i>	<i>Cloth, Cotton, Drill, White</i>	<i>Cloth, Wool, Serge No. 2</i>	<i>Cloth, Wool, Venetian No. 1</i>
	\$	\$	\$
COAT, MAN'S, cloth, wool, Officer (Unlaced)	—	35.90	42.70
COAT, MAN'S, drill, white, with gilt buttons (excluding shoulder straps)	14.79	—	—
COAT, MAN'S, drill, white, without gilt buttons (excluding shoulder straps)	14.20	—	—
TROUSERS, MEN'S, cloth, wool	—	13.90	19.00
TROUSERS, drill, white	8.59	—	—

Notes—

(a) Official orders may be lodged for blue Undress Uniforms only.

(b) Additional costs for—

(i) Affixing gold lace to coat, Undress—

<i>Rank</i>	\$
Sub-Lieutenant per coat	5.00
Lieutenant per coat	7.90
Lieutenant-Commander per coat	10.23
Commander per coat	11.80
Captain per coat	13.70

(ii) Alteration of lacing consequent upon promotion or reversion—

<i>Rank</i>	\$
Sub-Lieutenant per coat	7.00
Lieutenant per coat	9.90
Lieutenant-Commander per coat	12.23
Commander per coat	13.80
Captain per coat	15.70

(iii) Affixing letter "R" \$1.00 per coat

(iv) Affixing shoulder flashes Australia \$0.82 per coat

APPENDIX G

COMMONWEALTH GOVERNMENT CLOTHING FACTORY, MELBOURNE

Made-to-Measure Uniforms for Officers

1967-68

Rank	Cloth, Wool, Serge No. 2	Cloth, Wool, Venetian No. 1, Doeskin			Shoulder Straps (per Pair)
	Coat, Man's, Undress, Officer	Coat, Man's, Undress, Officer	Coat, Man's, Undress, Tail, Officer	Jacket, Man's, Mess, Officer	
	\$	\$	\$	\$	\$
Midshipman (with white turn backs)	31.25	38.05	45.10	33.90	3.45
Sub-Lieutenant	35.10	41.90	50.10	38.90	5.35
Lieutenant	37.65	44.45	52.65	41.45	5.90
Lieutenant-Commander	39.65	46.45	54.65	43.45	6.75
Commander	40.20	47.00	55.20	44.00	6.90
Captain	42.80	49.60	57.80	46.60	7.65
Commodore	40.40	47.20	55.40	44.20	7.00
Rear-Admiral	42.25	49.05	57.25	46.05	20.15
Vice-Admiral	45.05	57.85	60.05	48.85	20.40

Uniforms for Officers—RANR, RANR(S) and RANVR

The above schedule of prices is applicable, with the addition of—\$1.00 per garment or per set of shoulder straps for the addition of letter " R ",

Uniforms for Officers—ASCC

The above schedule of prices less—

- (i) \$0.20 for uniform coats,
- (ii) \$0.50 per pair shoulder straps,

is applicable—ASCC officers do not wear shoulder flashes Australia.

Note—The above prices include the cost of distinction cloth between lace where required.

Prices—Nett, FOR/FOB Melbourne.

APPENDIX G—continued

All Ranks	Cloth, Cotton, Drill, White	Cloth, Cotton, Marcella	Cloth, Wool and Cotton, Garbar- dine	Cloth, Wool, Serge No. 2	Cloth, Wool, Venetian No. 1, Doeskin
	\$	\$	\$	\$	\$
CLOAK, BOAT	—	—	—	—	35.50
COAT, MAN'S, BUSH, drill, white (for Captain and above)	11.15	—	—	—	—
COAT, MAN'S, drill, white, officer, with gilt buttons	6.75	—	—	—	—
COAT, MAN'S, drill, white, officer, without buttons	5.95	—	—	—	—
JACKET, MAN'S, MESS, drill, white, officer, with gilt buttons	7.45	—	—	—	—
JACKET, MAN'S, MESS, drill, white, officer, without buttons	6.35	—	—	—	—
RAINCOAT, MAN'S, Officer	—	—	25.95	—	—
TROUSERS, MEN'S, Officer	4.55	—	—	10.60*	16.10*
VEST, MAN'S, MESS, Officer	—	3.60	—	8.50*	10.20

\$

LACE, GOLD, $\frac{3}{8}$ -in. (complete with curl, ready for placing on cuffs) 3.40 per pair

LACE, GOLD, $\frac{1}{2}$ -in. (complete with curl, ready for placing on
shoulder straps) 2.05 per pair

Khaki Clothing

Officers Taking up Appointment in North America or South-East Asian Area

\$

COAT, MAN'S, cloth, wool and terylene, khaki, with buttons .. 30.20 each

COAT, MAN'S, drill, khaki 16.60 each

TROUSERS, MEN'S, cloth, wool, khaki, wool/terylene .. 8.25* per pair

TROUSERS, MEN'S, drill, khaki 6.15 per pair

Note—Permanent creasing, by Si-Ro-Set method, of trousers marked * can be effected, if desired, at an additional cost of—\$0.20 per pair.

Prices—Nett, FOB/FOR Melbourne.

APPENDIX H

COMMONWEALTH GOVERNMENT CLOTHING FACTORY, MELBOURNE

Made-to-Measure Uniform for Naval Chaplains

<i>Item</i>	<i>Price</i>
	\$
COAT, MAN'S, UNDRESS, black serge cloth (without gold lace) ..	29.85
COAT, MAN'S, UNDRESS, Serge No. 2	30.10
COAT, MAN'S, UNDRESS, Venetian No. 1	36.90
TROUSERS, MEN'S, black serge cloth	10.40
TROUSERS, MEN'S, Serge No. 2	10.60
TROUSERS, MEN'S, Venetian No. 1	16.10

(D of V 930/52/34)

(Navy Order 560 of 1966)

UNCLASSIFIED

427—Made-to-Measure Uniforms—Availability of Commonwealth Government Clothing Factory Representatives in Sydney and Brisbane for Try on of Completed Uniform

Details of contracts arranged with the Commonwealth Government Clothing Factory for supply of made-to-measure uniforms to RAN personnel during 1967-68 have been promulgated in navy orders.

2. Arrangements have now been made to enable members in the Sydney and Brisbane areas to try on completed uniforms at premises of representatives of the Commonwealth Government Clothing Factory located as follows—

Sydney .. .. .	.. .. .	9th Floor, Dymock's Building, George Street, Sydney, New South Wales. 2000
Brisbane .. .. .	.. .. .	Ampol House, 44 Herschel Street, Brisbane, Queensland. 4000

3. This arrangement should ensure that the customer is completely satisfied before taking delivery of garments. If uniforms are acceptable, purchasers may make payment to the factory representative and take immediate delivery of their orders. In the event that customers are not satisfied, the garments will be returned to the clothing factory for necessary alterations free of charge.

4. When placing orders with the Commonwealth Government Clothing Factory, members are to indicate clearly whether final delivery is to be made to either of the representatives referred to in Paragraph 2 above.

5. This order will be reprinted for posting on notice boards.

6. Navy Order 561 of 1966 is hereby cancelled.

(D of V 930/52/34)

(Navy Order 561 of 1966)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
25th September, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Mandau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

428—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During July, 1967

The magazines, pamphlets and amendments to publications, etc., contained in the Appendix to this order have been distributed to ships and services during July, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of "P" Series amendments referred to in the Appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 125	Supplement No. 10 dated May, 1967
BR 125	New Entries No. 10 dated May, 1967
BR 224	Change No. 2
BR 226C (16)	Change No. AN 1
BR 226D (14)	Change No. AN 4
BR 1145 (1)	Change No. 2
BR 1145 (2)	Change No. 2
BR 1146 (1)	Change No. 2
BR 1146 (2)	Change No. 3
BR 1152	Change No. 4
BR 1195 (2)	Change No. 1
BR 1442	Change No. 1
BR 1460	Change No. 1
BR 1492 (A)(1)	A/L 11
BR 1492 (A)(1)	A/L No. 12
BR 1492 (A)(1)	Amendment No. 13
BR 1616 (1)	Change No. 3
BR 1625	Change No. 2
BR 1653	Change No. 16
BR 1665	Change No. 2
BR 1676 (1)	Change No. 1
BR 1699 (3)	Change No. 1
BR 1771 (21)	Change No. 1
BR 1771 (40)	Change No. 3
BR 2050 (369)	Change No. 4
BR 2097	Change No. 4
BR 2101 (4)	Change No. 5
BR 2101 (5)	Change No. 10
BR 2115	Change No. 1
BR 2127	Change No. 4
BR 2139 (3B)	Corrigendum Section 2 Chapter 4

BR AMENDMENTS—continued

BR No.	Amendment No.
BR 2171 Vol. 2	Change No. 3
BR 2239	Change No. 4
BR 2351	Change No. 6
BR 2500 (6)	Leaflet C 66 November, 1966
BR 2500 (6)	Leaflet C 67 November, 1966
BR 2500 (6)	Leaflet B 24 December, 1966
BR 2500 (6)	January, 1967
BR 3000	Change No. 14
BR 3314	Change No. 1
BR 3314	Change No. 2
BR 3341	Change No. 1
BR 3406	Change No. 1
MBR 8001	Issue 16 dated 29.10.1966
MBR 8001	Issue 17 dated 18.1.1967
MBR 8001	Issue 18 dated 2.2.1967
MBR 8001	Issue 19 dated 20.10.1966
MBR 8001	Issue 20 dated 23.2.1967
MBR 8001	Issue 21 dated 25.11.1965
MBR 8074	Supplement No. 4 dated April, 1967
MBR 8074	Supplement No. 5 dated May, 1967
MBR 8144	Change No. 1
MBR 8144	Change No. 2
MBR List of Propellant Lots Acceptable for Naval Service 1958	Amendment Nos. 44, 45, 46

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Aeroplane	3.4.1967
Aeroplane	19.4.1967
Aeroplane	26.4.1967
Aeroplane	3.5.1967
Aeroplane	17.5.1967
Aeroplane	24.5.1967
"Approach" Naval Safety Review	May, 1967
Flight	6.4.1967
Flight	13.4.1967
Flight	20.4.1967
Flight	27.4.1967
Flight	3.5.1967
Flight	11.5.1967
Flight	18.5.1967
Flight	25.5.1967
HMSO List of Govt. Publications	March, 1967
International Electronics	April-May, 1967, Vol. 13 No. 2
International Electronics	June-July, 1967
Signal	May, 1967, Vol. 21 No. 9
US Journal of the Institute of Navigation	Spring, 1967, Vol. 14

USA NAVWEP PUBLICATIONS

Publications	Date
OP 2579 Vol. 1 (PMS/SMS)	.. Change No. 1 dated 1.7.1966
OP 2579 Vol. 1 (PMS/SMS)	.. Change No. 2 dated 15.7.1966
OP 2579 Vol. 5 (PMS/SMS)	.. Change No. 1 dated 1.7.1966
OP 2579 Vol. 5 (PMS/SMS)	.. Change No. 2 dated 15.7.1966

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
106D-4201-16C	AL 1 (Feb. '67)
107D-0802-1	AL 3 (September, 1966)
	AL 4 (January, 1967)
109A-0001 } ²	(AL 1100)-C 1 (15.2.67)
0002 }	(AL 1101)-C 2 (23.2.67)
	(AL 1102)-B 731 (23.2.67)
	B 732 (AL 1103)
	B 733 (AL 1104)
	B 734 (AL 1105)
109A-0002-4F	AL 2 Issue 1 Feb., 1967
109B-0102-5	AL 32 (December, 1966)
109B-1013-5	AL 29 (December, 1966)
112G-0304-1	AL 1
112G-0602-1	AL 1 (January, 1967)
112P-0202-1	AL 2
116B-0407-3CD	AL 1 (December, 1966)
116D-0102-2	AL 10 (Leaflet 1.2) 20.3.67 with O/L Introducing New Coding
(N) 154	AL 4
957C Vol. 4 Part 6	AL 21
(N) 1024 Vol. 4 Part 6 Issue 2	AL 1
	AL 2, 7, 9, 15, 17, 19 and 21
1086 Book 7	AL 181 (16.9.66)
	AL 184 (16.9.66)
1182C (Naval) Vol. 1	AIL 6/67
1234D 2nd Edition	AL 6 (with Corrigendum)
	AL 7
1275A Vol. 1 Section 12	AL 15
1275B Vol. 2 with "L" Section Con- tents List	14 (AL 170)
1275T Vol. 1 Section 3	AL 24
1469Q Vol. 5 Part 6 (N) Issue 1	AL 22
1492A Vol. 1	AL 121
1661 Vol. 2 Part 1	L 5
1661B Vol. 1 2nd Edition	AL 137 (December, 1966)
1661 Vol. 2 Part 1	L 5
1664E Vol. 2	L 4 (AL 70)
1803D Vol. 1 Book 4	AL 132 (November, 1966)
1803S Vol. 1 Book 2	AL 71
1803T Vol. 1 Book 2	AL 30
2173A Vols. 1 and 6 Part 1	AL 52
2487AB Vol. 2	(AL 30)-B 1 (Alt. 2) (21.4.67)

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
2531HA Vol. 1	AL 1 (1st July, 1966)
2531J Vol. 2	B 73 (AL 205) (Alt. 2 Incorp.)
2531S Vol. 2	AL 37 (B 16) Alt. 1 (14.2.67)
	AIL (RAN) 1 (2nd May, 1967)
2887NA Vols. 1 and 6	AL 2 (November, 1966)
2887N Vol. 2	AL 124 (Leaflet B 76)
3358	AL 25
	AL 26
4340 Vol. 1 Book 2	AL 121
4343A Vol. 4 Part 6 Section 3	AL 18
4343B Vol. 3 Part 1 (Naval)	AL 22
4343D Vol. 1 Part 1 (Naval)	AL 20
	AL 21
4411A Vol. 3 Part 1 (N)	AIL (RAN) 1 (May, 1967)
4471A Vol. 1 Part 2 Book 2	AL 159
4483A Vol 1 Part 1	AL 88
4509A Vol. 5 Part 10 (Naval)	AL 3
4511 Vols. 1 and 6 Book 3	AL 102
	AL 103
4515E Vol. 3	AL 17 (March, '67)
4515U Vol. 3 Part 1	AL 22
	AL 23
	AL 24
4601A Vol. 4 Part 6	AL 15 (February, 1967)
4707T Vol. 3 Part 1	AL 3
4723A Vol. 5 (Naval) Book 1	AL 23 (1st January, 1967)
4723A Vol. 5 (Naval) Book 2	AL 30 (January, 1967)
4747A	AL 14
4758A and B Vol. 2	(AL 59)-L 4
4765A Vol. 3	AL 1 (November, 1966)
4837AA Vol. 2	AL 19-(B 4) (Alt. 1 Incorp.) 13.2.67
4837J Vol. 1	AL 1
(RAN) 7 Vol. 5 Book 2	AL 19
(RAN) 8 Vol. 1 Book 1	AL 83 (March, 1967)
(RAN) 8 Vol. 1 Book 2	AL 22 (March, 1967)
(RAN) 8 Vol. 1 Book 3	AIL (RAN) 23 (April, 1967)
(RAN) 8 Vol. 1 Book 8	AIL (RAN) 8 (April, 1967)
(RAN) 8 Vol. 3 Part 2	AL 80
	AL 81
(RAN) 8 Vol. 6 Part 2	AL 56 (April, 1967)
(RAN) 8 Vol. 1 Book 8	AIL (RAN) 8 (April, 1967)
(RAN) 8 Vol. 2	AIL (RAN) 125
	AIL (RAN) 126
	AIL (RAN) 127
	AIL (RAN) 128
	AIL (RAN) 129
	AIL (RAN) 130 (April, 1967)
	AIL (RAN) 131 (April, 1967)
(RAN) 8 Vol. 5 F/S Book 2	AL 58
	AL 59
	AL 60

AMENDMENTS TO AIR PUBLICATIONS—continued

<i>AP No.</i>	<i>AL or Leaflet</i>
(RAN) 9 Vol. 3 Part 1	Transmittal Letter No. 7 (February, 1967)
(RAN) 9A Vol. 3 Part 1	AL 7
(RAN) 9A Vol. 6 Part 2A	AL 16
(RAN) 9A Vol. 6 Part 4A	AL 34
(RAN) 9AB Vol. 2	Transmittal Letter No. 55 (April, 1967)
	Transmittal Letter No. 56
(RAN) 9B Vol. 1	AL 4 (11.4.67)
	AL 5
(RAN) 10 (Crew Notes)	AL 10
	AL 11
(RAN) 10 Vol. 1 Book 3	AIL (RAN) 1 (March, 1967)
(RAN) 10 Vol. 2	AIL (RAN) 1 (April, 1967)
	AIL (RAN) 2 (April, 1967)
	Mod. Leaflet Scout/599 Class C/3
(RAN) 10 Vol. 2 Book 2	AL 10
(RAN) 10 Vol. 5 F/S Book 2	AL 9
(RAN) 14 Vol. 5 Book 2	AL 20
(RAN) 15	AL 1 (March, 1967)
(RAN) 15 Vol. 1	AL 2
(RAN) 19 Vol. 1 Book 2 (with TM 55.1520.211.20)	AL 11 (4th August, 1966)
(RAN) 19 Vol. 2 Book 1	AL 13
	AL 14 (April, 1967)
	AL 15 (April, 1967)
(RAN) 25 F/S INST for RAN	AL 3 (March, 1967)
(RAN) 26 Vol. 5 F/S Book 2	AL 26
(RAN) 31 Vols. 3 and 6	AL 2 (December, 1966)
(RAN) 33 Vol. 5	AL 1
(RAN) 101	AL 127
	AL 129
(RAN) 102 Issue 2	AL 27
(RAN) 140	AL 42 (May, 1967)
DCA Aeronautical Information Publication	RAC/2 (AL 84) Cat. A and C
DCA Aeronautical Information Circular	RAC/2 (AL 84) Cat. East
	12/67 (1.5.67)
	13/67 (1.6.67)
	14/67 (1.6.67)
	15/67 (1.6.67)
DCA Airworthiness Advisory Circular ..	No. 7
DCA Air Navigation Orders Concession Approval and Section 48.1	
DCA Notices to Airmen	7/67 (1.6.67)
	8/67 (1.6.67)
DCA Air Navigation Orders Part 100	AL 51
DCA Air Navigation Orders Part 105	
DCA Air Navigation Orders Part 108 Section 108.5.3.3	
NOTAM	7/67 (1.6.67)
	8/67 (1.6.67)

AMENDMENTS TO AIR PUBLICATIONS—continued

<i>AP No.</i>	<i>AL or Leaflet</i>
SDM 81 Issue 4 .. ..	..
SDMIS 368 Issue 2 .. ..	..
SDMIS 377 Issue 1 .. ..	..
AAP No. 2 Table of Contents 17th Edition (Feb. '67)	SAL 62 (AL 39280) (May, 1967)
AAP No. 2 GCC Table of Contents (17th Edition)	SAL 63 (AL 39993) (June, 1967)
AAP No. 2 GCC 5935	Erratum to SAL 9 (AL 37438)
AAP No. 2 GCC 6625 (7th Edition) (Oct. '66)	SAL 8 (AL 38672) (April, 1967)
AAP 69 Vol. 1	AL 8 (April, 1967)
	AL 9 (April, 1967)
	AL 10 (April, 1967)
	AL 11 (April, 1967)
AAP 121 (Rev. Jan. 1962)	AL 35 (15.5.67)
AAP 702.1 Book 1 Part 3 Section 1	AL 185
AAP 702.1 Book 2 Part 11 Section 1	AL 182 (31.3.67)
AAP 702.50 Vol. 2 Part 1	AL 6
AAP 711.16 Vol. 3 Part 1 Section 1	SAL 2 (AL 17180)
AAP 711.24 Vol. 2 Parts 1 and 2 ..	AL 47
AAP 711.54 Vol. 2 Parts 1 and 2 ..	AL 66
	AL 70
AAP 711.54 Vol. 2 Part 2	AL 67
AAP 716.0 Vol. 2 Part 2	AL 46 (26.4.67)
AAP 721.2 Vol. 4 Part 1	AL 13
AAP 721.2 Vol. 6 Parts 1, 2, 3 and 4	AL 15 (28.4.67)
AAP 721.65 Vol. 2 Part 2	Corrigendum to AL 191 (3.4.67)
	AL 183 (1.7.67)
	AL 195 (28.2.67)
	AL 203
AAP 721.79 Vol. 2 Part 1	AL 60 (26.4.67)
AAP 721.79 Vol. 2 Part 2	AL 330
	AL 352 (28.4.67)
	AL 353 (11.5.67)
AAP 730.30	AL 19 (31.3.67)
AAP 737.11 Vol. 1 Parts 2 and 3 and Vol. 5	AL 15
AAP 741 Vol. 2 Parts 1 and 2	AL 116
AAP 741.41 Vols. 1 and 6	AL 9 (4.4.67)
AAP 742.00 Vol. 2 Part 2	AL 64 (20.3.67)
AAP 742.00 Vol. 2 Parts 1 and 2 ..	AL 68
AAP 742.11 Vols. 1 and 6	AL 14
AAP 744.00 Vol. 2 Parts 1 and 2 ..	AL 78
AAP 749.43 Vol. 3 Part 1 (1st Edition)	AL 1
AAP 751.00 Vol. 2 Parts 1 and 2 ..	AL 40 (28.4.67)
	AL 41 (28.4.67)
	AL 42 (28.4.67)
AAP 751.51 Vols. 1 and 6	AL 19 (21.3.67)
AAP 751.52 Vols. 1 and 6 Book 1 ..	AL 25
AAP 751.52 Vols. 1 and 6 Book 2 ..	AL 12 (14.5.67)

AMENDMENTS TO AIR PUBLICATIONS—*continued*

<i>AP No.</i>	<i>AL or Leaflet</i>
AAP 751.61 Vols. 1 and 6	AL 26 AL 27
AAP 751.71 Vols. 1 and 6	AL 21 (21.12.66)
AAP 751.72 Vol. 3 Part 1 (1st Edition)	Sub. AL 14
AAP 752.11 Vols 1 and 6	AL 16 (4.4.67)
AAP 752.22 Vols. 1 and 6 Book 1 ..	AL 21 (17.3.67)
AAP 980	AL 1 (February, 1967)
AAP 996.04	AL 1 (December, 1966)
JASAP	AL 20 (1.2.67) AL 21 (1.3.67)
Appendix 18 Part 1 (1st Edition) (Jan. '66)	SAL 7 (AL 39686) (May, 1967)
GCC 1325 (5th Edition)	SAL 10 (AL 39312) (August, 1966)
GCC 5930	Erratum to SAL 9 (AL 38498)
NAVWEPS 01-85 SAD-4 FSN 0701-180-1590	Revision Notice dated 15.7.62 Revision Notice dated 15.10.62 Revision Notice dated 15.12.62 Change Notice dated 15.3.63 Change Notice dated 15.6.63 Change Notice dated 15.9.63 Change Notice dated 15.12.63 Change Notice dated 15.3.64 Change Notice dated 15.6.64 Change Notice dated 15.9.64 Change Notice dated 15.12.64 Change Notice dated 1.12.65
NTI Book I	GENERAL/5/67 (15.3.67)
STI Holder Book 1	AL 5
SCPO	13/67 (15.4.67) 14/67 (4.5.67)
CSDE Schedule Provisional Part 6 (2nd Edition) (Nov. '65) to Collins 618T Systems	AL 4
FSN 0705-030-0490 NA 05.10.556 ..	(With Revision 1.6.59)
FSN 0705-140-4310 NW 05-656A.11 ..	(With Revision 15.6.62)
FSN 0711.150.1610 NW 11.70 FFK 502	(With Revision 1.5.61)
FSN 0711.150.1680 NWH 70FFN-1 ..	(With Revision 1.10.64)
FSN 0711-020-0670 NW 11-5-592 ..	(With Revision 15.1.66 and 1.7.66)
FSN 0711-030-0480 NW 11.106.21 ..	(With Revision 1960 and 1.5.61)
0716.080.1350 NW 16.35.1D660.2 ..	(With Revision dated 15.5.63)
0716-080.1490 NW 16.351D997.2 ..	(With Revision 15.5.63) (2 Items)
FSN 0717.040.2640 NW 17-15C-79 ..	(With Revision dated 1.6.66)
ICAO Bulletin	April, 1967
Air Clues, May, 1967	
Air Pictorial, April, 1967	
Air Pictorial, May, 1967	
ICAO Bulletin	March, 1967

(D of V 465/57/674)

RESTRICTED

Registrar

ANO's 429-437/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
2nd October, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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12453/67

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430	Naval Technical Services Branch—RAN DDG Weapon Equipments—RAN Ordalt Committee—Terms of Reference.
SECTION 4—EQUIPMENT, STORES AND SERVICING	
431	Cathodic Protection—Resiting of Anodes in Type 12 Destroyer Escorts.
432	Fire Precautions—Delivery Hose—Hydrant Outlets.
433	Fire Precautions—Electrosensitive Recording Paper—Fire Risk.
434	Leakage of Information on Tenders for Supplies and Services.
435	Medical and Dental Stores Supply System with Australian Military Forces as Single Service Manager.
436	Mortars—A/S Mortar Mark 10—Quadrant Elevation Switch—Reports.
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Section 1

ADMINISTRATIVE AND GENERAL

429—Will Not Be Issued

UNCLASSIFIED

430—Naval Technical Services Branch—RAN DDG Weapon Equipments—RAN Ordalt Committee—Terms of Reference

Consequent on the introduction of non-expendable surface and underwater weapon equipments of US origin into the RAN an Ordalt Committee has been established under the Chairmanship of the Director of Weapons and Electrical Engineering.

2. The RAN Ordalt Committee has been instituted by the Naval Board to examine and review all proposals for modifications to non-expendable surface and underwater weapon equipments of USN origin.

3. Subject, when appropriate, to confirmation by Naval Staff of a requirement and to confirmation by the Directors concerned that funds are available, the Ordalt Committee will decide which Ordalts are to be adopted. The Ordalt Committee will also determine the method for implementation of the agreed decision and consequential publication, drawing or microfilm amendments required.

4. The committee is to take action to inform ANA Washington, with 45 days of receipt of a design change proposal, of the decision of the Ordalt Committee.

5. The Ordalt Committee is the highest technical authority in the RAN on all questions concerning modifications to non-expendable surface and underwater weapon equipments of USN origin. The decisions of the Ordalt Committee are the authority for action by division and branches except in cases where Naval Staff policy is involved (e.g., a major departure from modification standard) or where the overall cost of the modification to the department is estimated to exceed \$40,000, when the approval of the Naval Board is required.

6. Directors of divisions and branches on whose votes expenditure on approved modifications is borne will obtain the approval of competent authority in the normal course for expenditure of money in these instances where the amounts involved exceed their delegation.

7. DWE is responsible for (a) the submission of all modifications to non-expendable surface and underwater weapon equipments to the Ordalt Committee and (b) advising the A and A Committee of the Ordalts which have been adopted that require A and A action for installation. The adoption of these Ordalts make the A and A mandatory.

8. The permanent members of the Ordalt Committee are—

- DWE (Chairman).
- DNS Representative.
- DAS Representative.
- DTWP Representative.
- DDG Type Desk Representative.
- Other specialist officers may be co-opted as required.

9. The committee will meet at Navy Office Canberra as arranged by the Chairman.

10. Where any Committee member will not be attending a particular meeting he should notify the Chairman and nominate another Committee member to speak on his behalf as necessary.

(DWE 1205/255/125)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

431—Cathodic Protection—Resiting of Anodes in Type 12 Destroyer Escorts

Experience gained from HMAS YARRA indicates that the cathodic protection arrangement for Type 12 Destroyer Escorts can be made both more effective and serviceable when the forward two impressed current anodes are resited further aft.

2. Similar modifications whereby the forward two impressed current anodes are resited at positions approximately two feet six inches forward of frame 54 and at a girth length of ten feet port and starboard of keel centreline, are to be carried out on HMA Ships PARRAMATTA, DERWENT and STUART during their next docking.

3. An item to reposition these anodes is to be included in the defect list for the next refit quoting this order as authority.

4. Navy Office is to be advised by the dockyard of the exact position of each resited anode immediately on completion of this modification.

(ACDC 1205/58/36)

UNCLASSIFIED

432—Fire Precautions—Delivery Hose—Hydrant Outlets

The attachment of unlined canvas delivery hose to hydrant outlets involves risk of deterioration of hose, and its failure in an emergency, should a drip leak develop from a hydrant valve.

2. In order to obviate this risk and to standardise procedures in establishments throughout the RAN it has been decided that the female screw thread coupling on delivery hose shall not be permanently connected to the male screw coupling on internal hydrant valves or external pillar type hydrants.

3. Where hose is stowed in flaked form in a cradle, attention must be given to the provision of sufficient free hose at the female coupling end to permit connection to the male hydrant outlet, before the branchpipe and hose is drawn away from the cradle.

4. To assure a good connection and prevent unnecessary leakage, regular examination of the washer positioned in the female coupling is essential.

(DNW 1446/1/45)

UNCLASSIFIED

433—Fire Precautions—Electrosensitive Recording Paper—Fire Risk

(DCI (RN) 885/1967)

There have been two or three cases of fires in RN Meteorological Offices, as yet unexplained, involving Pattern 055/163299, Paper, Electrosensitive Recording (Mufax) Type A, used in Meteorological Offices. An investigation by the Government Chemist has shown that there is no evidence that this paper is self heating to the point of ignition. Nevertheless, this paper and also 0633/NP3388, Paper, Electrosensitive Recording (Mufax) Type H, supplied to survey ships only for use with precision depth recorders, do represent a fire risk when dry, in that they will easily ignite when brought into contact with objects hotter than 200° C. Owing to the chemical content, they may smoulder for a long time when ignited, and if a build up of temperature occurs or the smouldering part is subjected to a draught, the paper may burst into flame.

2. All possible precautions against this fire risk are to be observed including the following—

- (a) Recordings are not to be displayed close to sources of even mild heat, e.g., radiators, or near flammable material. The hot material involved in smoking, i.e., hot cigarette ends, hot tobacco ash and hot spent matches are sources of heat to which dry paper is particularly susceptible.
- (b) Recordings are not to be allowed to accumulate unduly on clips. Ideally, one sheet only should be placed on each clip, but this is not always possible.
- (c) Recordings not actually in use are to be stowed in fireproof lockers.
- (d) All unwanted used paper is to be destroyed before any undue accumulation occurs.
- (e) During periods when offices are unattended, except for short intervals, all recordings required for display are to be stowed as in (c) above.
- (f) Care must be taken not to allow any undue accumulation of paper close to or touching a recorder when the latter is operating in the "Automatic" mode. This is particularly important when the office is temporarily unattended.

3. It is emphasised that the foregoing does not apply to this paper before use, as then it is damp and hermetically sealed in plastic bags; in this state it usually presents no fire risk whatever.

(DNW 1446/1/46)

UNCLASSIFIED

434—Leakage of Information on Tenders for Supplies and Services

It has recently been reported by the Department of Supply that tenderers for supplies and services are becoming aware of information concerning their own offers and those of other tenderers to which they are not entitled. The Department of Supply has stressed that details of tenders must be kept CONFIDENTIAL at all times.

2. It is, of course, realised that representatives of the demanding officer, inspecting officer, etc., must on occasions discuss their offers with tenderers, but it is most important that on these occasions, the discussions be confined to relevant details of the tenderer's actual offer only, and no indication of any sort as to the number or details of any other offers be disclosed. No indication of any sort as to the likely success or otherwise of his offer must be given to any tenderer.

3. Officers are reminded of the need for appropriate handling of any tenders which have been referred to this Department for consideration and for avoiding the possibility of any unauthorised disclosure of information.

(SEO (MAT) 400/1/296)

UNCLASSIFIED

435—Medical and Dental Stores Supply System with Australian Military Forces as Single Service Manager

Current instructions as promulgated in Naval Storekeeping Manual ABR 4, Article 3406 (preliminary), require HMA ships (excluding DIAMANTINA and Tenders) to forward all periodic and non-urgent casual demands for medical and dental stores to the Medical and Dental Store Officer, RAN Medical Distribution Centre, Pyrmont, NSW, for scrutiny, etc., and onforwarding to the appropriate Army Base Ordnance Depot, HMAS DIAMANTINA is required to demand on Army 5 Base Medical and Dental Stores Depot, Western Australia, through Army 5 Base Ordnance Depot.

2. It has been decided that in future HMA ships requiring delivery of these stores from Army Base Medical and Dental Stores Depots in ports other than Sydney, need not forward their demands through the Medical and Dental Store Officer, Sydney.

3. The following procedure is to apply—

Copies of demand Form AF G982E prepared by HMA ships for all periodic and non-urgent casual demands for medical and dental stores are to be disposed of as follows—

- (a) *HMA ships requiring delivery of items in Sydney*—copies Nos. 1 to 4 are to be forwarded to the Medical and Dental Store Officer, RAN Medical Distribution Centre, Pyrmont, NSW, for scrutiny, notation of packing/delivery instructions and onforwarding to Army 2 Base Ordnance Depot.
- (b) *HMA ships requiring delivery of items in Melbourne*—copies Nos. 1 to 4 are to be forwarded direct to Army 3 Base Medical and Dental Stores Depot.
- (c) *HMA ships requiring delivery of items in Brisbane or Fremantle*—copies Nos. 1 to 4 are to be forwarded to the appropriate Base Medical and Dental Stores Depot through the relevant Army Base Ordnance Depot.

(d) *HMA ships not covered by (a), (b) and (c)*—copies Nos. 1 to 4 are to be forwarded to the Medical and Dental Store Officer, RAN Medical Distribution Centre, Pyrmont, NSW, for scrutiny, notation of packing/delivery instructions and onforwarding to the appropriate Army Base Ordnance Depot.

4. With regard to ABR 4, Article 3421 (preliminary), it has also been decided that medical and dental stores may be surveyed on board under the provisions of ABR 4, Article 1011.

5. ABR 4, Chapter 34, will be amended.

(DSAP 1605/201/35)

RESTRICTED

436—Mortars—A/S Mortar Mark 10—Quadrant Elevation Switch—Reports

(DCI (RN) 818/1967)

An RN A/S Frigate has recently reported damage to the quadrant elevation (QE) cam and switch fitted to an A/S Mortar Mark 10. As the damage sustained resulted in an unsafe condition, all ships fitted with A/S Mortar Mark 10 are to carefully examine the components associated with the QE cam, linkage and switch. The components concerned are shown on drawings 34 and 47 in the book of Ships Officers Drawings.

2. The following action is to be taken—

- (a) Switch off all supplies to the mortar and ensure that there are no cartridges in the breeches.
- (b) Remove the circular cover from the A-end box which houses the QE cam.
- (c) Wind the barrels to zero pitch and the cradle to zero roll.
- (d) Put the Mounting Control Switch to Load and wind the cradle slowly down to the load position. The action of cam and switch plunger should be continuously observed for freedom of movement whilst the cradle is being moved. Check particularly whether the plunger passes over the edge of the cam when the barrels reach the wooden loading rests. If this is the case, check that the plunger will ride back easily on to the cam (which should have a 0.25-in. radius along this edge) when the barrels are wound off the loading rests. The plunger should have a spherical radius of 0.34-in. and this should also be checked if any difficulty is experienced with the plunger movement.
- (e) Wind the cradle to zero roll and the barrels to approximately 25° pitch (fwd or aft). By removing the pin, disconnect the link which is directly attached to the camshaft. It should now be possible to move the cam and camshaft fore and aft by hand. *Note* that whilst carrying out this check, the amount of movement must be restricted to avoid the plunger passing over the edges of the cam. If the camshaft is tight, it must be removed (complete with cam) and examined for signs of corrosion and/or lack of lubrication; this applies particularly to mortars which have not been fitted with the neoprene bellows at the connecting-link end of the camshaft. The camshaft should be thoroughly cleaned to remove rust, but if found to be badly corroded a new shaft may be required.

(f) Apply grease XG274 liberally to the camshaft and re-assemble into the mortar. Note that it is advisable to roll the cradle to approximately 20° (port or stbd) before re-assembly in order that the switch plunger is not damaged by the cam. Re-check the camshaft for freedom of movement and then re-connect the link. Apply grease XG274 to all nipples (7 in No.) on the linkage mechanism.

Note—LG280 is a suitable alternative for both applications if XG274 is not available.

3. The safe firing arcs must then be checked as follows—

- Insert 161302 Case, Testing Firing Circuit into the "A" barrel breech of the mortar under test.
- Put the Mounting Control Switch to Train and the Test-Safe-Fire Switch to Test. Rotate the firing drum by means of the handwheel to bring the "A" barrel selected at 3 (a) above, to the index mark.
- The firing circuit cut-off positions can now be checked by using the hand operated generator on the Weapon Control Panel with the Continuity-Insulation Switch at Continuity. The generator should be rotated continuously whilst each of the following checks is carried out—

Barrel Pitch Angle	Cradle Roll Angle	Firing Circuit	Allowable Tolerance at Cut-off
0°	From 0° to 20° port . .	Broken	± 2° On all angles
0°	From 20° port to 62° port	Made	
0°	From 62° port to port cradle stop	Broken	
0°	From 0° to 20° stbd . .	Broken	
0°	From 20° stbd to 62° stbd	Made	
0°	From 62° stbd to stbd cradle stop	Broken	
From 0° to 23° fwd From 23° fwd to fwd barrel stop	0°	Broken Made	± 2° On all angles
From 0° to 23° aft From 23° aft to aft barrel stop	0°	Broken Made	

Note—The above tests are applicable to any A/S Mortar Mark 10 installation.

4. The cam is locked to the cam securing plate by one or two ¼-in. BSF Hex Head MS Bolts, ½-in. long. If only one bolt is fitted, a second bolt should be added either by using one of the existing tapped holes or by drilling and tapping in a new position. The second bolt should only be added after the cut-off angles have been checked for correctness. Finally, replace the circular cover using a new gasket.

5. Reports—A report on the results of this inspection is to be rendered to Director of Weapons and Electrical Engineering, Navy Office, Canberra, on completion.

(DWE 707/251/96)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

437—Stores Accounting—Form SX 100—Internal Demand, Issue and Return Voucher for Stores—Revision

Form SX 100, Internal Demand, Issue and Return Voucher for Stores, which was introduced by Navy Order 24 of 1967 has been revised by the inclusion of "rate" and "value" columns. The revised forms are printed in two sizes as follows—

SX 100 Small—suitable for up to 5 items per form.

SX 100 Large—suitable for up to 22 items per form.

2. These forms are suitable for Victualling Stores and are to be used for this purpose upon existing stocks of Forms AS 156 or AS 1091 becoming exhausted when the new forms will be supplied in lieu. Until then Forms AS 156 and AS 1091 are to continue to be demanded for victualling purposes.

3. The original version of Form SX 100 will continue to be issued for other than victualling purposes, by SVSO Sydney, until stocks are exhausted. See ABR 4, Article 2519 (3). In order to prevent the possibility of the original version of these forms being issued when required for victualling purposes, until further notice all demands for these forms are to be endorsed "For Victualling Stores" when this is applicable.

(DSAP 464/77/19)

(Navy Order 24 of 1967)

THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

DATE 08-14-2013 BY 60322 UCBAW/STP

1. The information contained in this report is classified "RESTRICTED" because it is information of a confidential nature which is being furnished to you for your information only.

2. This information is being furnished to you for your information only and is not to be disseminated outside your organization.

3. The information contained in this report is classified "RESTRICTED" because it is information of a confidential nature which is being furnished to you for your information only.

4. This information is being furnished to you for your information only and is not to be disseminated outside your organization.

5. The information contained in this report is classified "RESTRICTED" because it is information of a confidential nature which is being furnished to you for your information only.

DATE	DESCRIPTION	AMOUNT	BALANCE
1950-01-01	Opening Balance	100.00	100.00
1950-01-15	Deposit	50.00	150.00
1950-02-01	Withdrawal	25.00	125.00
1950-02-15	Deposit	75.00	200.00
1950-03-01	Withdrawal	100.00	100.00
1950-03-15	Deposit	50.00	150.00
1950-04-01	Withdrawal	25.00	125.00
1950-04-15	Deposit	75.00	200.00
1950-05-01	Withdrawal	100.00	100.00
1950-05-15	Deposit	50.00	150.00
1950-06-01	Withdrawal	25.00	125.00
1950-06-15	Deposit	75.00	200.00
1950-07-01	Withdrawal	100.00	100.00
1950-07-15	Deposit	50.00	150.00
1950-08-01	Withdrawal	25.00	125.00
1950-08-15	Deposit	75.00	200.00
1950-09-01	Withdrawal	100.00	100.00
1950-09-15	Deposit	50.00	150.00
1950-10-01	Withdrawal	25.00	125.00
1950-10-15	Deposit	75.00	200.00
1950-11-01	Withdrawal	100.00	100.00
1950-11-15	Deposit	50.00	150.00
1950-12-01	Withdrawal	25.00	125.00
1950-12-15	Deposit	75.00	200.00
1951-01-01	Balance Forward	200.00	200.00

6. The information contained in this report is classified "RESTRICTED" because it is information of a confidential nature which is being furnished to you for your information only.

ANO's 438-444/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
16th October, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

438—Carriage of Canteen Stores in Departmental Vehicles

It has been decided that Service vehicles may at the discretion of the Commanding Officer be used for the carriage of Canteen Stores in accordance with the following provisions—

- (a) When vehicles are used solely for the carriage of Canteen Stores the rates specified in ABR 5013, Article 7 (b), are to be charged.
- (b) When Canteen Stores are carried in vehicles on routine runs or on journeys incidental to normal Navy purposes, no charge is to be made.

2. The repayment rates prescribed in ABR 5013 do not include an element to cover insurance risks in respect of privately owned stores carried on repayment in Service vehicles and an indemnity in the following form is to be obtained from messes concerned in respect of Canteen Stores carried—

In consideration of any goods or property being carried or transported in Commonwealth owned vehicles on behalf of

(Full name of Mess)

during the period 1st January, 196 to 31st day of December, 196 , I agree not to hold the Commonwealth, its servants, agents or employees responsible for any damage or loss to such goods or property while being so transported or carried.

SIGNATURE.....
(where appropriate the words FOR AND
ON BEHALF OF should be included
before signing)

DATE / /

3. With regard to the carriage of personnel in Service vehicles, it should be noted that the insurance of personnel, as referred to in ABR 5013, Article 7, Paragraph 2, extends to their personal effects.

4. ABR 5013 will be amended.

(DSAP 121/55/39)

UNCLASSIFIED

439—Electronic Data Processing—Unit Identification Code

With the introduction of Electronic Data Processing (EDP) into the Navy, it is necessary to provide a simple identification system for all self contained units that may be required to report data to, or receive information from, the Navy EDP Centre, e.g., HMA ships and establishments, store depots, Navy Office Directorates, dock-yards and repair and servicing organisations.

2. The simplest and most efficient method is a numerical system and each self contained unit has been allocated a four digit numeric identification code for use in operations involving EDP. The Appendix to this order lists the codes allocated to units in both numerical and alphabetical sequence.

3. The fourth or last digit of the code is a check digit that enables the EDP Centre to determine the authenticity of the identification, i.e., 1007 is an authentic number but 1008 is not. Use of a number that is not a genuine code in this system will cause rejection of the transaction and hence delay the achievement of its objective.

4. The unit identification code is used for a number of different purposes, e.g., identification of the source of a message, the consignee of a store issue or the addressee for the transaction. Details of the circumstances requiring the use of this code are contained in the Manual of Electronic Data Processing, ABR 5063.

5. The codes are allocated by the EDP Centre and any requirement for a new code is to be referred to Navy Office.

APPENDIX A

Unit Identification Code

Alphabetical Listing

Unit Identification (Source) Codes are arranged below in alphabetical order, within the following categories—

1. SHIPS, SUBMARINES, PATROL CRAFT, AIR SQUADRONS.
2. HMA SHORE ESTABLISHMENTS AND W/T STATIONS.
3. OVERSEAS UNITS/POSTINGS.
4. OTHER POSTINGS SOURCES.
5. NAVY OFFICE DIRECTORATES.
6. OTHER AUTHORITIES, DIRECTORATES, ETC.
7. DOCKYARDS, STORE AND REPAIR DEPOTS, OIL FUEL INSTALLATIONS.
8. EXTERNAL SUPPLY, REPAIR AND MAINTENANCE SOURCES.

Unit	Code	Unit	Code
1. HMA Ships—			
ANZAC	1074	KOALA	1937
ARUNTA	1120	MELBOURNE	1007
BANKS	1880	MORESBY	1821
BARCO	1910	PALUMA	1848
BASS	1872	PARRAMATTA	1201
BOONAROO	2542	PERTH	1104
BRISBANE	1090	QUEENBOROUGH	1252
CASTLEMAINE	1988	QUIBERON	1279
CULGOA	1902	QUICKMATCH	1260
CURLEW	1422	SNIFE	1449
DERWENT	1244	SPRIGHTLY	1929
DIAMANTINA	1856	STALWART	1996
DUCHESS	1066	STUART	1228
EMU	1961	SUPPLY	1813
GASCOYNE	1864	SWAN	1287
GULL	1414	SYDNEY	1805
HAWK	1406	TEAL	1457
HOBART	1082	TOBRUK	1112
IBIS	1430	TORRENS	1295
JEPARIT	2534	VAMPIRE	1058
KANGAROO	1945	VENDETTA	1031
KARA KARA	1953	VOYAGER	1686
KIMBLA	1899	WOOMERA	1694
		YARRA	1236

APPENDIX A—continued

Unit	Code	Unit	Code
Submarines—			
ONSLow	1678	2. HMA Shore Establishments and W/T Stations—	
OTWAY	1643	ALBATROSS	3018
OVENS	1651	CARPENTARIA	3506
OXLEY	1635	CEBERUS	3026
TABARD	1627	CRESWELL	3034
TACITURN	1619	ENCOUNTER	3042
TRUMP	1600	HARMAN	3050
		HUON	3069
		KUTTABUL	3077
		KUTTABUL II	3085
		LEEWIN	3093
		LONDON DEPOT	3522
		LONSDALE	3107
		MELVILLE	3115
		MORETON	3123
		NAVY OFFICE (HARMAN)	4774
		NAVY OFFICE (LONSDALE)	5002
		NIRIMBA	3131
		PENGUIN	3158
		PLATYPUS (post-1964)	3166
		RUSHCUTTER	3174
		TARANGAU	3182
		TORRENS (pre-1964)	3190
		WARATAH	3514
		WATERHEN	3204
		WATSON	3212
		W/T BELCONNEN	3220
		W/T COONAWARRA	3239
		W/T NORTH-WEST CAPE	3247
		3. Overseas Units/Postings—	
		ALO KOREA	3638
		Defence Representative NZ	3646
		HMA LONDON DEPOT	3522
		HMAS CARPENTARIA	3506
		HMAS WARATAH	3514
		HMNZS PHILOMEL	3727
		HMS MULL OF KINTYRE	3719
		HMS TAMAR	3735
		HMS TERROR	3700
		HMS TRIUMPH	3743
		KD MALAYA	3751
		SEATO PLAN. STAFF BANGKOK	3530
		Service Attache BANGKOK	3611
		Service Attache DJAKARTA	3549
		Service Attache KARACHI	3603
		Service Attache MANILA	3565
		Service Attache NEW DELHI	3557
		Service Attache SAIGON	3573
		Service Attache TOKYO	3581
		Air Squadrons—	
723 Sqdn.	2100		
724 Sqdn.	2119		
724 Sqdn. "B" Flight	2151		
725 Sqdn.	2127		
725 Sqdn. "B" Flight	2186		
805 Sqdn.	2208		
808 Sqdn.	2232		
816 Sqdn.	2135		
816 Sqdn. "B" Flight	2178		
817 Sqdn.	2143		
817 Sqdn. "B" Flight	2194		
850 Sqdn.	2216		
851 Sqdn.	2224		
VIETNAM Helo. Flight	2240		

APPENDIX A—continued

Unit	Code	Unit	Code
4. Other Postings Sources—			
Exchange—RCN	5584	DNA	4707
Exchange—RN	5592	DNAP	4138
Exchange—RNZN	5606	DNES	4316
Exchange—USN	5576	DNI	4146
Loan—RCN	5533	DNLS	4324
Loan—RMN	5517	DNQA	4480
Loan—RN	5541	DNR	4294
Loan—RNZN	5568	DNS	4529
Loan—USN	5525	DNW	4561
Run	5509	DNWS	4154
		DOA	4235
		DO & M	4650
5. Navy Office Directorates—			
Navy Office	4774	D of C	4170
Navy Office MELB	5002	D of O	4162
ACNB	4006	D of P	4103
1st NM (CNS)	4014	D of R	4227
2nd NM (CNP)	4022	D of S (AIR)	5711
3rd NM (CNTS)	4030	D of V	4537
4th NM	4049	DPR	4669
Secretary	4057	DPS	4251
ACDC	4340	D/PSYCH	4332
ACMD	4448	DSMR	4499
ACTP	4391	DSS	4200
ALO (MELB)	4758	DTWP	4111
AOR	4413	DWE	4464
Archives (MELB)	5037	D/WRANS	4278
AS (CE)	4618	EDP Centre	4782
AS (EDP)	4626	FAS (E & G)	4596
AS (F)	4693	FAS (F & M)	4685
AS (NS)	4634	HPB	4677
ATIS	4421	MDG	4308
ATP	4405	PEE	4375
CA/NTS	4502	PE (M & S)	4383
Central Registry		PME	4367
Central Registry (MELB)	5045	PNA	4359
CEO (GS)	4642	SEO (MAT)	4723
C of S	5738	6. Other Authorities, Etc.—	
CONS	4197	Area Sec (EAA)	4731
DAMR	4456	Area Finance Branch GARDEN IS.	4944
DAS	4553	Captain of the Port, SYDNEY	4839
DCNP	4219	Chief Inspector NDP GARDEN IS.	4847
DCNS	4081	Civil Personnel Branch GI	4960
DDM	4545	DA MELBOURNE	4790
DEA	4715	Director RAN, AJASS, NOWRA	4898
DFSD	4510	EDP Centre (Navy)	4782
DFWS	4286	FOCAF HQ	4073
DMD	4588	FOCAF (Sea)	4065
DMED	4472		
DMS	5703		
DMT	4243		

APPENDIX A—continued

Unit	Code	Unit	Code
6. Other Authorities, Etc.—continued			
FOICEA	4812	GARDEN ISLAND HMA Naval Dockyard	0019
FOICEA Staff	4820	KINGSWOOD Magazine Depot	0140
GOSI EAA	4979	LEICHHARDT Radio Test Centre	4928
GOSI Q'LAND	5185	MARIBYRNONG Armament and Weapon Equipment Depot	0205
GOSI VIC	5029	MELBOURNE Naval Store Depot	0191
GMGID	4987	NEWINGTON Magazine Depot	0132
Greenwich House	5053	NORTH SYDNEY Torpedo Depot	0159
HYDROGRAPHER	4189	OIL FUEL INSTALLATION Bulimba	0264
INO GARDEN IS.	4855	OIL FUEL INSTALLATION Cairns	0272
Joint Services Medical Centre	4766	OIL FUEL INSTALLATION Chowder Bay	0167
MARALINGA Weapons Project	5134	OIL FUEL INSTALLATION Darwin	0299
Master Attendant, GARDEN IS.	4936	OIL FUEL INSTALLATION Fremantle	0248
NAEO Eastern Area	4901	OIL FUEL INSTALLATION Hobart	0256
Naval Agent CAIRNS	5207	OIL FUEL INSTALLATION Manus	0302
Naval Agent TOWNSVILLE	5193	OIL FUEL INSTALLATION Port Moresby	0310
NOIC NAA	5215	OIL FUEL INSTALLATION Townsville	0280
NOIC NG	5231	OIL FUEL INSTALLATION Williamstown Dockyard	0213
NOIC Q'LAND	5185	PORT MELBOURNE Victualling Depot	0183
NOIC SA	5061	PYRMONT Medical and Dental Store	0078
NOIC TAS	5142	PYRMONT Royal Edward Victualling Yard	0124
NOIC VIC	4995	RANDWICK Air Store Depot	0043
NOIC WA	5096	RANDWICK Machinery and Spares Depot	0051
NSO BRISBANE	5177	RANDWICK Victualling Depot	0086
NSO DARWIN	5223	WILLIAMSTOWN HMA Naval Dockyard	0175
NSO FREMANTLE	5118	WOOLLOOMOOLOO Radio and Electrical Store Depot	0094
NSO HOBART	5150	7. Dockyards, Store and Repair Depots, Oil Fuel Installations—	
NSO MELBOURNE	5010	BUNNERONG Motor Transport Establishment	0116
NSO PORT ADELAIDE	5088	BYFORD Armament and Weapon Equipment Depot	0221
NTS Branch (Annexe) SYDNEY	4804	GARDEN ISLAND General Naval Store Depot	0027
PNO COCKATOO IS.	4863	GARDEN ISLAND Gunwharf and Weapon Equipment Depot	0035
RANEL	4871	8. External, Supply, Repair and Maintenance Sources—	
SASO	0450	Airborne Accessories and Sales, GREENACRE	8079
SMSO	0469	Bendix Technico Pty. Ltd., ROCKDALE	8052
SNSO	0442		
SSA	0493		
SSO (AIR)	0477		
SVSO	0485		
WRE SALISBURY	5126		

APPENDIX B—continued

Code	Unit	Code	Unit
Ships, Submarines, Patrol Craft and Air Squadrons—continued			
2380	HMAS ADVANCE	3565	Service Attache MANILA
2399	HMAS ARCHER	3573	Service Attache SAIGON
2402	HMAS ARDENT	3581	Service Attache TOKYO
2410	HMAS ARROW	3603	Service Attache KARACHI
2429	HMAS ASSAIL	3611	Service Attache BANGKOK
2437	HMAS ATTACK	3638	ALO KOREA
2445	HMAS AWARE	3646	Defence Representative NZ
2453	HMAS BANDOLIER	3700	HMS TERROR
2461	HMAS BARBETTE	3719	HMS MULL OF KINTYRE
2488	HMAS BOMBARD	3727	HMNZS PHILOMEL
2496	HMAS BARRICADE	3735	HMS TAMAR
2518	HMAS BAYONET	3743	HMS TRIUMPH
2526	HMAS BUCCANEER	3751	KD MALAYA
2534	HMAS JEPARIT	Navy Office Directorates; Other Authorities, Directorates, Branches and Postings	
2542	HMAS BOONAROO	Sources—	
Shore Establishments, W/T Stations—			
3018	HMAS ALBATROSS	4006	ACNB
3026	HMAS CERBERUS	4014	1st NM (CNS)
3034	HMAS CRESWELL	4022	2nd NM (CNP)
3042	HMAS ENCOUNTER	4030	3rd NM (CNTS)
3050	HMAS HARMAN	4049	4th NM
3069	HMAS HUON	4057	Secretary
3077	HMAS KUTTABUL	4065	FOCAF (Sea)
3085	HMAS KUTTABUL II	4073	FOCAF (HQ)
3093	HMAS LEEUWIN	4081	DCNS
3107	HMAS LONSDALE	4103	D of P
3115	HMAS MELVILLE	4111	DTWP
3123	HMAS MORETON	4138	DNAP
3131	HMAS NIRIMBA	4146	DNI
3158	HMAS PENGUIN	4154	DNWS
3166	HMAS PLATYPUS (post-1964)	4162	D of O
3174	HMAS RUSHCUTTER	4170	D of C
3182	HMAS TARANGAU	4189	Hydrographer
3190	HMAS TORRENS (pre-1964)	4197	CONS
3204	HMAS WATERHEN	4200	DSS
3212	HMAS WATSON	4219	DCNP
3220	RAN W/T BELCONNEN	4227	D of R
3239	RAN W/T COONAWARRA	4235	DOA
3247	RAN W/T NORTH-WEST CAPE	4243	DMT
Overseas Units—			
3506	HMAS CARPENTARIA	4251	DPS
3514	HMAS WARATAH	4278	D/WRANS
3522	HMA LONDON DEPOT	4286	DFWS
3530	SEATO Planning Staff BANGKOK	4294	DNR
3549	Service Attache DJAKARTA	4308	MD
3557	Service Attache NEW DELHI	4316	DNES
		4324	DNLS
		4332	D/PSYCH
		4340	ACDC
		4359	PNA
		4367	PME

APPENDIX B—continued

Code	Unit	Code	Unit
Navy Office Directorates; Other Authorities, Directorates, Branches and Postings			
Sources—continued			
4375	PEE	4863	PNO COCKATOO IS.
4383	PE (M & S)	4871	RANEL
4391	ACTP	4898	Director RAN, AJASS, NOWRA
4405	ATP	4901	NAEO Eastern Area
4413	AOR	4928	Radio Test Centre LEICHHARDT
4421	ATIS	4936	Master Attendant
4448	ACMD	4944	Area Finance Branch GARDEN IS.
4456	DAMR	4952	Area Secretariat GARDEN IS.
4464	DWE	4960	Civil Personnel Branch GI
4472	DMED	4979	GOSI EAA
4480	DNQA	4987	GMGID
4499	DSMR	4995	NOIC VIC
4502	CA/NTS	5002	Navy Office MELB
4510	DFSD	5010	NSO MELB
4529	DNS	5029	GOSI VIC
4537	D of V	5037	Archives Branch MELB
4545	DDM	5045	Central Registry MELB
4553	DAS	5053	Greenwich House
4561	DNW	5061	NOIC SA
4588	DMD	5088	NSO PORT ADELAIDE
4596	FAS (E & G)	5096	NOIC WA
4618	AS (CE)	5118	NSO FREMANTLE
4626	AS (EDP)	5126	WRE SALISBURY
4634	AS (NS)	5134	MARALINGA Weapons Project
4642	CEO (GS)	5142	NOIC TAS
4650	DO & M	5150	NSO HOBART
4669	DPR	5169	NOIC Q'LAND
4677	HPB	5177	NSO BRISBANE
4685	FAS (F & M)	5185	GOSI Q'LAND
4693	AS (F)	5193	Naval Agent TOWNSVILLE
4707	DNA	5207	Naval Agent CAIRNS
4715	DEA	5215	NOIC NAA
4723	SEO (MAT)	5223	NSO DARWIN
4731	Area Sec (EAA)	5231	NOIC NG
4758	ALO (MELB)	5509	Run
4766	Joint Services Medical Centre	5517	Loan—RMN
4774	Navy Office	5525	Loan—USN
4782	Navy EDP Centre	5533	Loan—RCN
4790	Distributing Authority MELB	5541	Loan—RN
4804	NTS Branch (Annexe) SYDNEY	5568	Loan—RNZN
4812	FOICEA	5576	Exchange—USN
4820	FOICEA Staff	5584	Exchange—RCN
4839	Captain of the Port, SYDNEY	5592	Exchange—RN
4847	Chief Inspector NDP GARDEN IS.	5606	Exchange—RNZN
4855	INO GARDEN IS.	5703	DMS
		5711	D of S (AIR)
		5738	Controller of Supply

APPENDIX B—continued

Code	Unit	Code	Unit
External Supply, Repair and Maintenance Sources			
8001	Hawker De Havilland (Aviation), BANKSTOWN	8095	Graviner (Aust.) Pty. Ltd., MOORABBIN
8028	Hawker De Havilland (Engineering), LIDCOMBE	8109	Executive Air Services Pty. Ltd., ESSENDON
8036	National Instrument Co. Pty. Ltd., MARRICKVILLE	8117	RFD, MOORABBIN
8044	Qantas Empire Airways Ltd., MASCOT	8125	Godfrey Engineering (Aust.) Pty. Ltd., NIDDRIE
8052	Bendix Technico Pty. Ltd., ROCKDALE	8133	Normalair (Aust.) Pty. Ltd., AIR PORT WEST
8060	Lucas Rotax (Aust.) Pty. Ltd., ZETLAND	8141	Dunlop Rubber (Aust.) Pty. Ltd., BAYSWATER
8079	Airborne Accessories and Sales, GREENACRE	8168	S. Smith & Sons (Aust.) Pty. Ltd., MELBOURNE
8087	Conveyancer Fork Trucks, ZETLAND	8176	National Instrument Co. Pty. Ltd., MELBOURNE
		8184	Collins Radio, MELBOURNE
		9989	External Uncoded Consignee

(AS (EDP) 178/1/119)

UNCLASSIFIED

440—Montague Whalers—Sailing From Ships and Establishments

Montague whalers are not to be sailed in open waters and, when sailing in enclosed waters, a safety boat is to be readily available.

2. For expedition type sailing, Commanding Officers of ships and establishments are to ensure that the lifesaving equipment listed in Navy Order 444 of 1967 is carried in the boat, together with appropriate rations. In addition, a Linkline HF Transceiver and an eight-man inflatable liferaft are to be embarked. When considering this type of sailing, Commanding Officers are to take into account the experience of the crew, and are to take care that adequate communication and rescue organisations are in force.

3. It is not intended to provide permanent stowage in boats for any of this gear.

4. Lifejackets are to be worn at all times when under sail.

(CONS 1236/51/36)

UNCLASSIFIED

441—Travel Warrants—Stamping of Name and Address of Authority to Whom Claims are to be Forwarded by Travel Authorities

Advice has been received from Treasury that Travel Authorities have reported that the name of the issuing Department is sometimes omitted from standard travel warrants supplied by the Government Printer and this causes difficulty in determining where the account should be sent.

2. In order to prevent further occurrences, all authorities responsible for issuing warrants are to ensure that the name and address of the authority to whom claims for payment are to be forwarded by travel authorities is shown on each warrant issued. The name and address of the authority should be stamped on each warrant at the time the book of warrants is brought into use.

3. Navy Accounts Manual Article 313 is being amended and notation is to be made in the Manual pending issue of amendment sheets.

(DNA 187/1/234)

Section 2**PERSONNEL**

UNCLASSIFIED

442—Services Canteens Trust Fund—Education Awards for 1968

The Trustees of the Services Canteens Trust Fund are inviting applications for Education Awards for 1968.

2. **Education Awards**—Education Awards range in value up to \$400 depending on the nature and cost of the course taken by the child and the circumstances of the family. There is a means test based on the adjusted family income. Education Awards may be granted if the Adjusted Family Income is \$1,100 or less in the case of orphans and \$900 for other children. The adjusted family income is calculated by taking the gross income of the family and deducting 10 per cent for each dependant if the gross income is less than \$2,400 and \$240 for each dependant if the gross income is over \$2,400; a widow is regarded as a dependant. The awards are designed to contribute towards the expenses of education to help parents keep their children at school to obtain the benefits of higher education.

3. **Eligibility**—Any child coming within the age requirements set out below and whose father or mother served in the Australian Forces on full time paid duty between 3rd September, 1939, and 30th June, 1947, is eligible to apply for an Education Award.

4. **Age Requirements**—Education Awards commence from the year in which the child turns 15. Where there are exceptional circumstances such as where a parent's income is derived solely from age, invalid or war pension, or the child must live away from home to obtain secondary education, awards will be considered for the year in which the child turns 13 or 14.

5. **Applications**—Applications for awards for 1968 should be lodged with the Regional Secretary of the Services Canteens Trust Fund in the State of residence of the parent before the 16th October, 1967.

6. **Post-graduate Scholarships**—One Post-graduate Scholarship is awarded each year for study overseas. The value of this Scholarship is \$2,500 (Australian) per annum for a maximum of three years. Applications close on 1st November, 1967. There is no means test for this Scholarship.

7. **Higher Training Education Awards**—Higher Training Education Awards may be granted for post-graduate courses in ancillary services of medicine, welfare or science such as nursing, occupational therapy, speech therapy, orthoptic therapy, laboratory technician. Applications close on 1st December, 1967.

8. The addresses of Regional Secretaries are under—

<i>Queensland—</i>	<i>New South Wales—</i>	<i>Victoria—</i>
Victoria Barracks, BRISBANE. 4000	Box 3847, GPO, SYDNEY. 2001	Victoria Barracks, MELBOURNE. 3000
<i>South Australia—</i>	<i>Western Australia—</i>	<i>Tasmania—</i>
22 Grenfell Street, ADELAIDE. 5000	Swan Barracks, PERTH. 6000	Anglesea Barracks, HOBART. 7000
<i>Australian Capital Territory—</i>		
15 Bremer Street, MANUKA. 2603		

9. This order will be reprinted for posting on notice boards.

10. Navy Order 482 of 1966 is hereby cancelled.

(DNES 134/1/9)

*(Navy Order 482 of 1966)***Section 4****EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

443—Maintenance—Adequate Supervision

Recent investigations into a reduction of habitability through wild heat coupled with increasing feed water losses in the engine room of a destroyer, led to the discovery that a number of main steam pipe joints were leaking but masked to some extent by thick lagging.

2. Closer examination showed that joints had not been tightened correctly onto their spiral wound gaskets. The gaskets were compressed only to 0.160-in. and not 0.145-in. to 0.135-in. in accordance with BR 3001. A number of flange bolts were also loose.

3. The attention of all concerned is drawn to the foregoing as a reminder that close supervision of refitting work is vital if efficient standards are to be maintained.

(ACMD 1215/56/417)

UNCLASSIFIED

444—Seaboats—Lifesaving Equipment

The following equipment is to be carried in boats rigged as seaboats in HMA ships—

Anchor and cable.

Compass.

One Upson Rugby torch—0583/L14876.

One 5-in. signalling lantern—0558/16409.

One First Aid Kit Scale H—6545-66-019-9798.

Two 5-gallon polythene water containers—66-013-4772.

One graduated drinking cup.

Distress signal box to contain 4 distress signals Mark 13 Mod. 0.

Bucket or bailer.

2. These instructions replace those in the Seamanship Manual (BR 67) (1951), Vol. II, Chapter VII.

(CONS 1236/51/36)





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
18th October, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

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450	Modified System of Accounting in Service System Canteens of Small Ships.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

445—Accounting for Private Property Found on Commonwealth Premises

The following instructions for the accounting for private property, including money found on Commonwealth premises are complementary to Treasury Directions 10/24 to 10/27.

2. For the purpose of Treasury Direction 10/27 the officer responsible is—
 - (a) *HMA ships including Fleet Shore Establishments*—The Supply Officer or when an officer is not appointed as such, the officer responsible for Supply duties.
 - (b) *All other establishments or offices*—Officer-in-Charge of the establishment or office/or his nominee.
3. Procedure for compliance with the requirements of Treasury Directions is—
Treasury Direction 10/24
 - (a) (i) A Receipt Book and Property Found Register is to be maintained for accounting for all property, including money handed in after being found on Commonwealth premises whether by a Commonwealth servant or by a member of the public.
 - (ii) Where the responsible officer holds an "Official Receipt Book", i.e., Forms AS 65Z held by Supply Officer, or where the nominee of the Officer-in-Charge is a Receiver of Public Moneys holding Form RI, receipts forms from these "Official Receipt Books" are to be issued for money (*see* Treasury Directions 4/1 and 9/13) handed in after being found. Where the responsible officer is remote from an office where an "Official Receipt Book" is held, a manuscript form of receipt serially numbered commencing at No. 1 on the first of January each year, e.g., 1/67, 2/67, etc., is to be issued for money handed in, a duplicate of the receipt to be filed for reference. Any money found is to be passed without delay to the Receiver of Public Moneys or Supply Officer, as the case may be; amounts received are to be credited to Trust Fund Other Trust Moneys.
 - (iii) A receipt (other than Forms AS 65Z and RI) is to be issued by the responsible officer to the finder where property other than money (*see* Treasury Directions 4/1 and 9/13) is handed in after being found.
 - (iv) The finder of property including money is to be notified of the provisions of Treasury Directions 10/25 and 10/26.
 - (v) Entries in the Property Found Register are to be serially numbered as in (ii) above and are to include all necessary detail, including reference to the serial number of the receipt, and final disposal of property including money.
 - (vi) The responsible officer is to notify the local civil police authorities.
 - (vii) Every endeavour is to be made to trace the owner and return the property, which is to be held in safe custody.

Treasury Direction 10/25

(b) (i) This direction provides that where the owner cannot be traced, the Commonwealth is entitled to property—

(A) found on Commonwealth premises by a Commonwealth servant while on duty and whose usual place of duty is on those premises; or

(B) found by anyone on Commonwealth premises that are not open to members of the public generally.

In other cases, the finder obtains the entitlement if the owner cannot be traced.

(ii) Where a claimant declares that he lost the property which has been found, he is to submit a claim and a statutory declaration concerning the loss to the responsible officer who is authorised to return the property including money to the claimant, after satisfying himself as to the validity of the claim. Where property, including money is returned to a claimant—

(A) The statutory declaration is to be filed as a permanent record.

(B) Return of property is to be recorded in the Property Found Register.

(C) An indemnity protecting the Commonwealth against any subsequent claim is to be obtained from the person to whom the property is returned.

The indemnity shall be in the following form—

"In consideration of the return to me of the property described, i.e., (if money, amount to be stated, if other than money description of the property) owned/found by me on the day of 19....., I agree to indemnify the Commonwealth against all losses, costs, charges, damages and expenses, acts and proceedings, claims and demands whatsoever which the Commonwealth may at any time incur or sustain or become liable for whether directly or indirectly by reason or in consequence thereto."

(iii) Subject to the provisions of Treasury Direction 10/25, property, including money, may be returned to the finder if not claimed by the owner within a period of three months from the date it was handed in, and action is to be taken as at (A), (B) and (C) of (b) (ii) above.

Treasury Direction 10/26

(c) (i) At the expiration of three months, property other than money not claimed by the owner or returned to the finder is to be disposed of by sale in the same manner as surplus stores for disposal. Establishments which normally arrange disposal of stores direct with the local office of the Department of Supply are to arrange disposal of the item accordingly. In all other cases the item is to be returned to the appropriate stores depot which will arrange disposal through the Department of Supply. Proceeds of sales are to be credited to Defence Revenue (Naval) Item II Receipts from Disposals through Department of Supply.

(ii) Any money unclaimed after the expiration of three months is to be transferred as a credit to Defence Revenue (Naval) Item III Sundries.

(iii) At the expiration of three months, property not claimed by the owner or returned to the finder is to be surveyed by at least two responsible persons to decide whether the item of unclaimed property is worth selling. If the original value of the item is not more than \$4.00, or alternatively, if the condition of the item found is such that for all practical purposes it has no value, it may be disposed of on the authority of the responsible officer.

(iv) The local civil police authorities are to be informed in writing of the disposal of all property.

(v) If any cases arise where the above procedures are impracticable, Navy Office is to be advised.

(vi) RI Article 1842 and ABR 5018 will be amended.

(DNA 2/51/62)

UNCLASSIFIED**446—Electronic Data Processing (EDP)—Introduction into Department of the Navy**

This Navy Order brings up to date the information given in Navy Order 421 of 1966 on the introduction of Electronic Data Processing into the administrative work of the Department of the Navy.

2. Navy Order 325 of 1967 gave details of the issue of Volume 1 of ABR 5063. The remaining volumes are in various stages of preparation and the next volume to be issued will be Volume 2 on Personnel. This is expected to be issued later this year.

3. Since the issue of Navy Order 421 of 1966, the work in the Supply and Technical Services areas has continued and the forecast dates have been met. In uniformed Personnel Administration, however, it has been necessary to put planned dates off for a year and to eliminate the work on Complements from the Phase 1 system.

4. The Phase 1 system at present being developed, therefore, will encompass the following activities—

(a) Supply—

Stores Cataloguing—Production of "master" catalogue pages for ABR 5074—RAN Catalogue of Stores. This part of the system has been in production since July, 1966. Computer printouts of stores catalogues are being produced on a regular basis for use by the Supply Division in the preparation of ABR 5074.

Stock Control and Store Accounting for Store Depots—Providing the following facilities—

(i) Maintenance of a comprehensive accounting record and transaction history for each item of stores on a central magnetic tape record.

(ii) Stock Control—the recording of stock movements, stock levels, dues-in and dues-out.

(iii) Production of stock cards containing stock control figures and transaction histories for individual items.

(iv) Production of issue vouchers, stocktaking listings, and stock control exception reports.

(v) Accumulation of usage data extracted from store depot transactions.

This activity will commence with Victualling Stores in November, 1967, and will be extended later to other categories of stores.

Provisioning—Production of provisioning review statements incorporating assets and liabilities, provisioning data, stock control data, usage, etc., in accordance with a cyclic review programme or when stock of an item falls to a predetermined level. This activity also will commence with Victualling Stores in conjunction with the Stock Control and Stores Accounting system.

Allowances of Technical Spares—Maintenance of a central magnetic tape record of Naval Stores allowed as spares for technical equipment; production of various consolidations of data from this record as requested by Management. This part of the system has been in production since October, 1966. Consolidations of data from the EDP record are being produced as requested by Supply Management.

(b) **Technical Services—**

(i) *CPM Network* analysis processing for project control. This system is in use at Garden Island and Williamstown Dockyards for refits of HMA ships. A programme to solve pure PERT networks is also available.

(ii) *Dockyard Costing (DYCOST)* covers the following activities at Garden Island Dockyard—

(A) Processing of all costing information, including estimates, for all work undertaken by the dockyard.

(B) Weekly preparation of reports for Management on a routine basis and daily exception reporting for certain classes of information.

DYCOST has been operating successfully at Garden Island since 27th June, 1967, and is presently scheduled to be in independent operation as from 30th October, 1967. It is planned to introduce DYCOST into Williamstown Dockyard during 1968.

(c) **Uniformed Personnel Administration—**

(i) *Administration*—The creation and maintenance on magnetic tape at the Navy EDP Centre on a daily basis of a complete and up to date record of the current status and personal and service histories of members of the PNF, WRANS, RANNS, PNG, NDP and members of the CNF serving in full time service with the PNF. Information will be provided from the EDP record to ships, establishments and Navy Office authorities on a regular basis and as required. This information will include a Service Record which will replace the present Service Certificate for sailors and be a new record for officers. The EDP record will contain more information than is held at present. To provide comprehensively for this it has been decided to hold a personnel census, the provisional date for which has been set as 4th April, 1968. This part of the system should be operating independently in May, 1969.

(ii) *Promotion of Sailors*—This sub-system will take over the assessment of performance evaluation reports and provide Management with composite score lists as required. Management will issue promotion notices to ships and establishments which will then report to EDP when the promotions have been made. This sub-system will follow soon after the introduction of the Administration system, i.e., soon after May, 1969.

5. Navy Order 421 of 1966 is hereby cancelled.

(AS (EDP) 465/1/732)

(Navy Orders 421 of 1966 and 325 of 1967)

Section 2

PERSONNEL

UNCLASSIFIED

447—Gowrie Scholarships—1968 Awards

The Naval Board have been advised that the following awards for the year 1968 will be made from the Gowrie Scholarship Trust Fund—

(a) Post-graduate Research Travelling Scholarships, for two years, of \$1,800 per annum (2 per annum).

(b) University or similar Scholarships for duration of course of \$150 per annum (8 per annum).

(c) Secondary School Scholarships, for one or two years, of \$80 per annum (10 per annum).

2. Applications must be submitted not later than 30th November, as follows—

For Post-graduate Scholarships—to the Registrar of the University of graduation in Australia.

For other Scholarships—to Secretary, The Gowrie Scholarship Trust Fund, Box E5, PO, St. James, NSW. 2000.

3. The Scholarships are available only to members of the Armed Forces who served in a combat area during the War of 1939-45, or to their descendants.

4. Forms of application and instructions are obtainable from the Secretary of the Trust, or through the University or School.

5. Navy Order 478 of 1966 is hereby cancelled.

(HPB 134/1/4)

(Navy Order 478 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

448—Gases—Liquid Oxygen—Introduction

Liquid oxygen will shortly be introduced into the Service for use in Skyhawk Aircraft Oxygen Breathing Systems. The following information is promulgated for general guidance. This will be incorporated in due course in AP (RAN) 140 (RANAMM).

2. **The Characteristics of Liquid Oxygen**—Liquid oxygen is pale blue, slightly more dense than water and magnetic. It is produced by liquefying air and fractional distillation. The boiling point at atmospheric pressure is minus 183° C. This can be raised by increasing the pressure until at the critical pressure of 735 psi the critical temperature of minus 118° C is reached, above which oxygen can only exist in the gaseous form. At 21° C the gas occupies over 850 times the volume of the liquid from which it was formed. If it were confined during this expansion it would exert a pressure of 12,000 psi on the walls of its container. Both liquid and gaseous oxygen promote and vigorously support combustion. Gaseous oxygen is colourless, tasteless, without smell, heavier than air and readily combines with a number of substances. The precautions which are necessary are all based on these chemical and physical properties.

3. **Fire and Explosion**—The two main hazards associated with liquid and gaseous oxygen are fire and explosion. They can only occur when three conditions are satisfied, namely the presence of—

- (a) a source of ignition;
- (b) the material for combustion;
- (c) the oxidant.

The presence of either of the first two items with the third is to be rigorously guarded against at all times.

4. **The Source of Ignition**—Any source of heat involving a temperature of more than 50° C must be regarded as a possible initiator in the presence of oxygen and combustible material. Examples of such potential sources of ignition or initiators are—

- (a) a naked light;
- (b) a lighted cigarette or pipe or one just put out but still warm;
- (c) sparks caused by static or live electrical discharge;
- (d) sparks or heat caused by impact, i.e., hammering connections to make them tight;
- (e) frictional heat from moving machine components;
- (f) solid acetylene, acetylides, hydro-carbons;
- (g) heat from electrical faults;
- (h) sudden gas compression efforts;
- (i) heat from a soldering iron.

5. **The Material for Combustion**—Examples of materials that oxidise rapidly creating substantial heat are—

- (a) volatile fuels;
- (b) oils and greases;
- (c) wood;
- (d) asphalt;
- (e) paint;
- (f) cotton and cotton waste;
- (g) metal and carbon particles;
- (h) trichlorethylene and many other solvents.

6. **Freezing**—Because liquid oxygen has an extremely low temperature it can damage human tissues; the effects being similar to that of frost bite or thermal burning. Under certain conditions valves and connections in the liquid oxygen systems, including the dispenser, will freeze. Particular care should be taken not to touch these parts with bare skin, for the flesh can be burnt or torn in an attempt to free it.

7. **General Safety Precautions**—To ensure safety and the efficient handling of oxygen, everyone should be thoroughly familiar with the following precautions—

- (a) Liquid oxygen equipment may not be operated by unauthorised personnel.
- (b) Approved protective clothing must be worn when handling liquid oxygen, i.e., acid proof apron, protective face mask, white asbestos gloves, white overalls.
- (c) No source of ignition is to be allowed within the presence of liquid oxygen.
- (d) Oil and grease must not be used on liquid oxygen equipment and clothes must be kept oil free.
- (e) Liquid oxygen storage spaces and replenishment areas must be adequately ventilated.
- (f) Fire extinguishers (CO₂ or water) must always be immediately at hand.
- (g) In the event of fire the source of liquid oxygen should be isolated.
- (h) Clothing contaminated with liquid oxygen should be removed immediately.
- (i) Clothing must always be thoroughly ventilated after handling liquid oxygen before personnel are exposed to a source of ignition—an interval of ten minutes is to elapse before smoking is permitted.

(ACAE 400/2/773)

UNCLASSIFIED

449—Low Pressure Steam Ranges—Hopkinson Steam Reducing Valves, "D" Type Relays—Introduction

As the result of failures experienced with the existing "G" type relays fitted to Hopkinson reducing valves in RAN Daring Class Destroyers and Type 12 Destroyer Escorts it has been decided to replace these existing relays with improved "D" type relays in the following ships—

- (a) HMA Ships VAMPIRE
VENDETTA
DUCHESS

Number and size of valves per ship—

- 2 off 1½-in. bore.
- 5 off 1-in. bore.

(b) HMA Ships YARRA
PARRAMATTA
STUART
DERWENT

Number and size of valves per ship—
2 off 1½-in. bore.

2. This work is to be undertaken by ship staffs with dockyard assistance as necessary at the first convenient opportunity. Detailed fitting instructions for "D" type relays are contained in BR 3001, Article 1006, but care is to be taken that the new diaphragm covers provided with the conversion kits are fitted at the same time as the new relays. Old relays including the existing diaphragm covers are to be returned to SMSO Sydney for disposal.

3. Conversion kits are now available from SMSO Sydney and demands worded as follows are to be made in the normal manner—

Hopkinson Reducing Valve "D" type relay conversion kit complete with new design diaphragm cover (stating No. and size of valves concerned).

4. Revised "As Fitted" drawings of the valves incorporating details of the new relays and diaphragm covers will be issued in the near future.

(ACDC 1100/54/775)

UNCLASSIFIED

450—Modified System of Accounting in Service System Canteens of Small Ships

In order to simplify accounting in the canteens of small ships, and to maintain an effective method of control with a minimum of paper work, a modified system of accounting for Service System Canteens in small ships has been introduced.

2. The Modified System of Canteen Accounting will be introduced for the following—

(a) Patrol Craft which have been given approval to open a Service System Canteen.

(b) HMAS KIMBLA,
HMAS PALUMA,
Minesweepers.

(c) HMA submarines which have been given approval to open a Service System Canteen.

3. Form SSC 10—Modified System of Accounting in Small Ships' Canteens—has been printed in books of 50 forms (25 Original and 25 Duplicate copies) and supplies may be obtained from—

The Superintending Victualling Store Officer,
Royal Edward Victualling Yard,
PYRMONT, N.S.W. 2009.

4. Instructions for keeping of modified canteen accounts in small ships are given at Appendix A.

5. Regulations and Instructions will be amended.

APPENDIX A

Service System Canteens—Instruction for Keeping of Modified Accounts in Small Ships

(See also RI Articles 1521–1550 and Appendix 15A, Part 3)

Where modified system of accounting for Service System Canteens in small ships has been approved, Form SSC 10 is to be used and kept by the officer appointed as Business Manager.

2. The use of Form SSC 10 makes the preparation of the following standard accounting forms unnecessary—

SSC 2—Purchase Ledger.

SSC 3—Returns, Transfers and Losses of Stock.

SSC 4—Stock Valuation Sheet.

SSC 5—Record of Daily Cash Takings.

SSC 6—Cash Book.

3. Forms SSC 7—Trading and Profit and Loss Statement, and SSC 8—Balance Sheet, are to be completed in the parent ship from information contained in Form SSC 10. The parent ship will also prepare periodical reports required under provisions of RI Article 1533.

4. Instructions for Use of Forms—

(a) Order Forms—SSC 1 and SSC 1A are only to be used as follows—

(i) SSC 1—When ordering from suppliers other than ASCO.

(ii) SSC 1A—When ordering from ASCO. Normally Form SSC 1A will be the one most used and is to be prepared in duplicate, the original being forwarded to the appropriate ASCO Branch, and the duplicate held by the Canteen Officer. He is to ensure that, by examination of serial numbers on the forms, no form is missing. A record should be kept of books received onboard. Order Forms are to be vetted by the Business Manager and signed only by a person authorised to do so by the Captain.

(b) Modified System of Accounting for Service System Canteen in Small Ships—Form SSC 10—

(i) Form SSC 10 is to be kept in duplicate, the original being forwarded to the parent ship with supporting vouchers at the end of each month after it has been totalled and stock reconciliation effected. The duplicate is to be retained onboard. The parent ship will audit Form SSC 10 monthly and prepare Forms SSC 7 and SSC 8 quarterly.

(ii) The Cash Book section of Form SSC 10 is to be used to record all receipts and payments, whether by cash or by cheque, as they occur. The signature of the Canteen Manager is to be obtained against each receipt. For cash payments a signature is to be obtained on this form and for payments by cheque the cheque number is to be recorded.

- (iii) Purchases and Stock Reconciliation Section is to be supported by invoices received from suppliers which are to be serially numbered. Purchases are to be recorded on receipt, and the invoice number entered in the appropriate column of the form. If the invoice is not immediately available, all known details are to be entered as an interim measure, the entry being completed in all respects when the invoice is received. Should this be delayed until after SSC 10 has been rendered to the parent ship, the invoice is to be despatched under cover of a brief explanatory note, all necessary details being made on the ships copy of the form. On receipt the base staff will insert the necessary details in the original Form SSC 10.
- (iv) Stock in Hand Section is to be compiled at the end of each month and is to be signed by the stock-takers. Stock is to be taken by persons other than the Manager. The value of stock is to be given at selling price.

5. **General**—These forms have been designed to simplify accounting in the Canteen of small ships with a view to affording an effective method of control with a *minimum* of paper work. The system requires little knowledge of accounting practice; but should there be any doubt as to its operation, the matter should be referred to the Base Supply Officer immediately for advice.

(DFSD 121/53/57)

RESTRICTED

ANO's 451-463/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
24th October, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A handwritten signature in cursive script, appearing to read 'P. Handau'.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

13677/67.

RESTRICTED

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

451—Accident—Explosion in Empty Petrol Tank

An accident occurred recently in a Department of the Navy Establishment, when an empty petrol tank exploded as the result of the application of a blow lamp to a pipe leading from the tank.

2. The safety principles expressed in legislation, safety manuals and/or BR 1754, as applicable to each Establishment, relating to the storage and handling of flammable liquids are always to be enforced when work is being carried out in storage systems which have contained or might have contained flammable substances. In particular, constant supervision must be exercised to ensure that unsafe practices are not used by the workman/workmen concerned.

(AS (CE) 1426/202/185)

RESTRICTED

452—Holdings of Support Craft in the RAN

The allocation of support craft, excluding sailing and pulling craft, to the various authorities is shown in the Appendix to this Order. An annual physical muster of all craft held is to be carried out and any variation from these allocations or details of individual craft as at 30th November is to be reported. Reports are to include the terminal date of the economic life of the craft based on the most recent report of survey. Reports are to be rendered to Navy Office, copy to Administrative Authority, by 31st December.

2. Naval Board approval is to be obtained before any transfer of craft between authorities takes place. On completion of transfer the recipient is to inform the Naval Board accordingly. In both cases the type of craft, registered number(s) and hull number(s) are to be stated, with names where appropriate.

3. Reporting of re-allocation of support craft within commands is not required, except that Administrative Authorities are to report craft issued to ships under construction or on re-commissioning.

4. Authorities will be advised by letter of action to be taken with craft to be held in reserve.

5. The notation "disposal" indicates that craft are currently available for disposal. The Naval Board are to be informed as early as possible when survey reports indicate that other craft are nearing the end of their economic lives.

6. Navy Order 391 of 1966 is hereby cancelled.

APPENDIX

452

<i>ABC Class Reference</i>	<i>Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft</i>	<i>Hull No. of Individual Craft</i>	<i>Reg. No. of Individual Craft</i>	<i>Authority to whom Allocated</i>	<i>Remarks/ Name</i>
1915	YW Water Barge, self-propelled	Y283 Y285 Y287 Y288	MWL 251 MWL 254 MWL 256 MWL 257	NOIC WA FOICEA NOIC VIC FOICEA	On charter
1915	YFR Refrigerated Covered Lighter, self-propelled	Y282	MRL 253	NOIC QLD	Reserve training, refrigeration machinery in store
1915	YF Covered Lighter, self-propelled	Y275 Y278	MSL 703 MSL 707	FOICEA FOICEA	BORONIA
1915	YAG Miscellaneous Auxiliary	Y256 Y257 Y258 Y259 Y260 Y261 Y262 Y264 Y270	SAR 6301 SAR 02-106 SAR 02-101 SAR 02-102 SAR 02-103 SAR 916 SAR 919 GPV 957 GPV 958 GPV 961 GPV 968	FOICEA FOICEA FOICEA CERBERUS CERBERUS FOICEA FOICEA NOIC QLD NOIC WA FOICEA NOIC VIC	AIR SPRITE AIR NYMPH (engines to be removed) U/M reserve AIR SPRAY. Restricted to fair weather operations AIR GUIDE. Restricted to fair weather operations TARGET TARGET Reserve training ALBATROSS TALLAROOK. Fitted for Port Phillip survey
1925	YDT Diving Tender	Y199 Y291 Y292 Y265 Y298 Y299	DB 2 GPV 015-75 GPV 015-73 GPV 962 TD 01 TD 02	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	TURTLE TORTOISE WALRUS SEAL Ex WINTRINGHAM OTTER Ex POPHAM
1925	YTM Medium Harbour Tug	Y289 Y290	DT 931 DT 932 ST 336	FOICEA FOICEA FOICEA	EMU (Reserve) BRONZEWING WATTLE
1925	Tow Boat		TB 9 TB 1536	FOICEA CERBERUS	SVSO
1930	Aircraft Lighter	ACL 303	ACL 303	FOICEA	CRESWELL Sound Range
1930	Harbour Sullage Lighter		HSL 541 HSL 542 HSL 543 HSL 544 HSL 546 HSL 584 HSL 771	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	Disposal Disposal Disposal
1930	Dumb Mooring Lighter		DPL 3	FOICEA	
1930	Flat Top Lighter		FTL 601 FTL 603 FTL 604 FTL 605 FTL 607 FTL 610 FTL 615 FTL 616 FTL 764 FTL 765	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	CRESWELL Sound Range Mooring Lighter

4

5

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<i>ABC Class Reference</i>	<i>Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft</i>	<i>Hull No. of Individual Craft</i>	<i>Reg. No. of Individual Craft</i>	<i>Authority to whom Allocated</i>	<i>Remarks/ Name</i>
1930	BOOM Net Punt		1234	NOIC QLD	
1930	Oil Fuel Lighter		OFL 1201 OFL 1202 OFL 1203 OFL 1204 OFL 1205 OFL 1207 OFL 1208 OFL No. 2 (S) OFL No. 4	FOICEA FOICEA GMWD FOICEA NOIC PNG FOICEA FOICEA FOICEA FOICEA	Dieso FFO X Dieso FFO X Dieso FFO X Dieso FFO X Dieso FFO X Dieso FFO X Dieso Separation equipment Dieso
1930	Aviation Fuel Lighter		AFL 501	FOICEA	Avcat
1930	Steel Ammunition Lighter (30 tons)		SAL 3	FOICEA	
1930	Concrete Ammunition Lighter (50 tons)		CAL 501 CAL 502 CAL 503 CAL 504 CAL 506 CAL 508	FOICEA NOIC PNG FOICEA FOICEA NOIC PNG FOICEA	
1930	Concrete Ammunition Lighter (100 tons)		CAL 101 CAL 102	FOICEA FOICEA	

1930	Concrete Ammunition Lighter (200 tons)		CAL 201 CAL 202 CAL 203 CAL 204 CAL 205 CAL 206 CAL 208 CAL 209	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	
1930	Steel Phillipine Lighter (100 tons) Steel Phillipine Lighter (300 tons)		AB 1302 SPL 102 AB 2262 AB 2263 AB 1283	FOICEA GMWD FOICEA FOICEA FOICEA	Disposal
1930	Lock Up Lighter		LUL 501 LUL 507	FOICEA FOICEA	
1930	Steel Lighter		SL 1 SL 2	FOICEA FOICEA	
1930	Well Lighter		WL 277	FOICEA	SVSO
1935	Derrick Lighter, self-propelled		SPDL	FOICEA	
1935	Deperming Lighter		DGL 1	FOICEA	
1935	Target Wilranel				
1935	Diving Barge, Concrete		DB 3	FOICEA	
1940	YP Patrol Boat	Y295 Y296 Y297	SDB 1321 SDB 1324 SDB 1325	FOICEA NOIC VIC NOIC WA	RUSHCUTTER LEEWIN

<i>ABC Class Reference</i>	<i>Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft</i>	<i>Hull No. of Individual Craft</i>	<i>Reg. No. of Individual Craft</i>	<i>Authority to whom Allocated</i>	<i>Remarks/ Name</i>
1940	Torpedo Recovery Vessel	TRV 2	TRV 2	FOICEA	
1940	Motor Dory 26-ft.		DR 3 DR 13 DR 14 DR 653	FOICEA FOICEA FOICEA FOICEA	Disposal
1940	Australian Work Boats 40-ft.	403 404 407 409 411 412 413 416 417 418 419 420 421 422 423 424 426 427 428 430	AWB 403 AWB 404 AWB 407 AWB 409 AWB 411 AWB 412 AWB 413 AWB 416 AWB 417 AWB 418 AWB 419 AWB 420 AWB 421 AWB 422 AWB 423 AWB 424 AWB 426 AWB 427 AWB 428 AWB 430	NOIC SA FOICEA FOICEA NOIC PNG NOIC WA FOICEA NOIC WA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA NOIC TAS FOICEA NOIC VIC FOICEA GMWD FOICEA	TORRENS TOPAZ ACHILLES HARBOB ONYX Diving AMETHYST Diving Diving
		431 432 433 434 435 436 437 438 440 441 442 443 444 445 1658 1873 2008 2009	AWB 431 AWB 432 AWB 433 AWB 434 AWB 435 AWB 436 AWB 437 AWB 438 AWB 440 AWB 441 AWB 442 AWB 443 AWB 444 AWB 445 AM 1658 AM 1873 AWB 2008 AWB 2009	NOIC QLD NOIC QLD FOICEA CERBERUS CERBERUS FOICEA NOIC VIC NOIC WA FOICEA FOICEA FOICEA NOIC NA FOICEA NOIC VIC FOICEA FOICEA FOICEA FOICEA	Towing Diving NOIC Victoria Barge Harbour surveillance Diving (Jervis Bay) Diving
1940	Work Boat 22-ft.	011-117	WB 011-117	FOICEA	FROG Disposal
1940	Work Boat 26-ft. GRP Hull	2601	WB 2601	FOICEA	
1940	Australian Work Boat 40-ft.	4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011	AWB 4001 AWB 4002 AWB 4003 AWB 4004 AWB 4005 AWB 4006 AWB 4007 AWB 4008 AWB 4009 AWB 4010 AWB 4011	FOICEA FOICEA FOICEA FOICEA CODOCK NOIC WA FOICEA NOIC PNG NOIC PNG FOICEA FOICEA	Towing Towing Halvorsen Design

<i>ABC Class Reference</i>	<i>Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft</i>	<i>Hull No. of Individual Craft</i>	<i>Reg. No. of Individual Craft</i>	<i>Authority to whom Allocated</i>	<i>Remarks/ Name</i>
1940	Fleet Utility Boat 40-ft.		UB 4012	STALWART	
1940	Personnel Boat (Bertram) 38-ft.	38101 38102	38101 38102	FOICEA FOICEA	Interim SAR Interim SAR
1940	Fleet Personnel Boat 40-ft.		PB 4013 PB 4014	STALWART STALWART	
1940	Motor Survey Boat 34-ft.		1393 328 381 3401 3402 3403 3404	FOICEA FOICEA FOICEA MORESBY FOICEA FOICEA MORESBY	Disposal SANDFLY (Training) Disposal FANTOME HERALD BEAGLE DART
1940	Motor Cutter 32-ft.		271 5338 5376 5377 441458 441459 44893	GMWD MELBOURNE MELBOURNE MELBOURNE SYDNEY SYDNEY CRESWELL	Disposal
1940	Motor Whale Boat Mark IX 26-ft.		C5787 C13300	PERTH HOBART	USN Type GRP

1940	Personnel Boat 26-ft.		C5736 C5737	PERTH HOBART	USN Type GRP
1940	Motor Whaler 27-ft.		2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717	PARRAMATTA YARRA NOIC WA CERBERUS STUART SYDNEY PARRAMATTA FOICEA DERWENT VENDETTA MORESBY FOICEA DUCHESS CERBERUS FOICEA ANZAC FOICEA	
1940	Motor Cutter 25-ft.		602 603 604 605 809 810 811 812 813 814	GMWD LEEWIN QUEEN- BOROUGH FOICEA CRESWELL FOICEA ANZAC CERBERUS PENGUIN NOIC WA	

ABC Class Reference	Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft	Hull No. of Individual Craft	Reg. No. of Individual Craft	Authority to whom Allocated	Remarks/ Name
1940— contd.	Motor Cutter 25-ft.— <i>continued</i>		819 820 821 822 830 831 833 834 837 1146 1147 1148 1149 1150 1203 1204 1385 1387 1394 1395 54125 5411	FOICEA GMWD CRESWELL NOIC WA SUPPLY DIAMENTINA VAMPIRE FOICEA FOICEA SUPPLY GMWD GMWD GMWD PENGUIN VAMPIRE VENDETTA QUEEN- BOROUGH YARRA FOICEA CRESWELL FOICEA DUCHESS	Surveying Surveying Surveying Surveying
1940	Motor Dinghy 16-ft.		255 5213 5341	FOICEA SNIPE CURLEW	Ditty Box

			5612 54105 54174 54175	TEAL GULL HAWK IBIS	
1940	14-ft. Utility Boat (GRP)		D14001 D14002 D14003 14004 14005 14006 14007 14008 14009 14010 14011 14012 14013 14014 14015 14016 14017 14018 14019 14020	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	Diving Safety Diving Safety Diving Safety Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Store Unmodified Store
1940	Motor Dinghy 17-ft. 6-in.		114 115 129 130 200 201	FOICEA NOIC NA ARMY KIMBLA BANKS ARMY	VERNON STURDEE HARRY CHAUVEL

<i>ABC Class Reference</i>	<i>Class Designator in accordance with Navy Order 590 of 1965 or Type of Craft</i>	<i>Hull No. of Individual Craft</i>	<i>Reg. No. of Individual Craft</i>	<i>Authority to whom Allocated</i>	<i>Remarks/ Name</i>
1940— <i>contd.</i>	Motor Dinghy 17-ft. 6-in.— <i>continued</i>		202 307 668 679 794 799 1118	ARMY MORIESBY FOICEA ARMY FOICEA FOICEA FOICEA	BRUDENELL WHITE JULIE CLIVE STEEL
1940	BOOM Working Boat 17-ft. 6-in.		257 376	FOICEA FOICEA	
1940	Fast Motor Boat 35-ft.		250 3501	FOICEA FOCAF	Barge Barge
1940	Fast Motor Boat 30-ft.		8001 45802 45810 45811	MELBOURNE SYDNEY FOICEA MELBOURNE	Disposal
1940	Miscellaneous Motor Boat		168 171 172 203 585 586	FOICEA FOICEA FOICEA FOICEA FOICEA FOICEA	HERAKLES ULYSSES LOCH LONG BINCLEAVES
1940	28-ft. Aluminium Motor Life Boat		1 2	SUPPLY SUPPLY	Sheathed Sheathed

1940	28-ft. Aluminium Life Boat (Flemming Gear)		3 4 5	SUPPLY SUPPLY SUPPLY	Sheathed Sheathed Sheathed
1940	Fast Motor Boat 25-ft.		FMB 206 FMB 427 FMB 588 FMB 1201	FOICEA FOICEA FOICEA FOICEA	Store
1940	Personnel Boat 25-ft. (Bertram)		PB 25101	FOICEA	
1940	Personnel Boat 30-ft.		PB 30101 PB 30102	FOICEA FOICEA	
1940	Steel Landing Barge Personnel		LB 4701	NOIC WA	SEA HORSE
1945	Flat Top Lighter		FTL 260 FTL 262 FTL 1388	FOICEA FOICEA FOICEA	

(ACDC 1236/251/135)

(Navy Orders 590 of 1965 and 391 of 1966)

Section 2 PERSONNEL

UNCLASSIFIED

453—James Laidley Dowling Memorial Scholarship

A Secondary School Scholarship has been founded at Cranbrook School in memory of Lieutenant J. L. Dowling who lost his life in the sinking of HMAS VOYAGER. The first scholarship will be awarded in 1968.

2. **Eligibility**—The Scholarship is open to the son of a serving member, a retired member, or an honourably discharged member of any of the Australian Armed Services. It may be awarded to a boy at any stage of his Secondary School career.

3. **Benefits**—The Scholarship is for either full tuition fees of a day boy; or tuition and boarding fees of a boarder. It provides free text books throughout the recipient's school career.

4. **Applications**—Details and application forms are obtainable from the Registrar, Cranbrook School, Victoria Road, Bellevue Hill, NSW. 2023.

(DNES 134/1/60)

Section 3 OPERATIONAL AND TRAINING

RESTRICTED

454—Explosive Ordnance Disposal Training

The Naval Board has decided that, as an interim measure, the EOD Section of the Clearance Diving School will transfer to HMAS WATSON. The EOD Section began operation in its new location in the TAS School on 28th August, 1967.

Administration

2. The Captain, HMAS RUSHCUTTER, will remain responsible for providing—

- (a) advice on EOD training standards for the Clearance Diver branch;
- (b) underwater training facilities for the EOD Section.

3. The Captain, HMAS WATSON, will be responsible for—

- (a) conducting EOD courses and providing detailed syllabuses to meet Clearance Diving School and Fleet training tasks;
- (b) EOD training equipment;
- (c) arranging the use of Army facilities necessary for EOD and demolition training.

4. The responsibilities for operational EOD tasks outlined in Confidential Navy Order 9 of 1967 are in no way affected by this change in training responsibilities. However, HMAS WATSON is to be included as an information addressee for the final reports required by Paragraph 8 of Confidential Navy Order 9 of 1967.

5. ABR 27, Vol. 2, Chapters 2 and 11, will be amended.

(DMT 311/201/277)

(Confidential Navy Order 9 of 1967)

Section 4 EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

455—Brows Carried by HMA Ships (Excluding Submarines)— Testing

Brows carried in HMA ships will normally be tested in a Naval Dockyard. Ships should add an item to their defect lists to cover the testing of their brows, as these tests become due.

2. Brows should be tested in accordance with the following instructions—

- (a) All brows are to be examined, repaired if necessary and tested at intervals of not more than 12 months.
- (b) The test is to be carried out with the brow horizontal and supported as near to its ends as is practicable. No end restraint is to be imparted to the brow by the supports.
- (c) The test load for all brows is to be 1½-cwt. per square foot of the deck area and is to be evenly distributed along the length of the brow (e.g., for a 2-ft. wide brow, required test load is 10-cwt. per 3-ft. length).
- (d) For steel and aluminium brows, no permanent set should remain after removal of the test load. For wooden brows, the permanent set (which may be due to take-up of fastenings) should not exceed ¼-in. per 10-ft. length of brow. If a permanent set greater than that specified is recorded, the brow should not be accepted into service unless a thorough check shows that the general structure and fastenings are sound and in good order.

3. In addition to the above, aluminium and wooden brows are to be examined at six-month intervals.

4. In the event of a ship being remote from a dockyard when a test is due, the test may be carried out by ships staff. Testing of brows by contract is not generally desirable and in any case should not be undertaken without prior Naval Board approval.

5. Hull maintenance schedules will be amended accordingly.

6. The above instructions do not apply to submarines. The gangplanks for these vessels should continue to be tested in accordance with the appropriate Hull and Engineering Maintenance Schedule.

(ACDC 1211/51/431)

UNCLASSIFIED

456—Dispatch of Stores—Standard Format for Signalled Advice

For clarity and to reduce signal traffic and assist message handling, it has been decided to standardise the form of notification by signal of the dispatch of stores.

2. In future, the text of messages signalling advice of the dispatch of stores is to be in the following format—

ANO 456/67

- A: Serial No. of ships demand note, Form AS 134, or DTG of signalled demand for stores.
- B: Group Class, Catalogue No. and brief description of stores.
- C: Method of dispatch and ETA at destination.
- D: Package No. and address if other than direct to addressee.
- E: Remarks (as may be considered necessary).

3. If the ships or authorities for whom stores are intended are not shown as action addressees on such signals, they should always be included as information addressees.

4. It is emphasised that a signalled advice of the dispatch of stores should only be made when other means of communicating the information, such as by mail or telephone, are not available or applicable.

5. ABR 4, Chapter 7, will be amended.

(DSAP 77/201/32)

UNCLASSIFIED

457—Guided Weapons—Seacat—860228 Cap Pipe and 861872 Spanner Wrench—Introduction

(DCI (RN) 1565/1965)

- HMA ships concerned* .. All fitted with Seacat Guided Weapon System.
- Items concerned* .. 860228 Cap, Pipe and 861872 Spanner, Wrench.
- Information* .. STN/5 to the Seacat Handbook stresses the necessity for scrupulous cleanliness when making hydraulic test connections. To prevent the possibility of foreign matter being introduced and fouling the coupling half, self sealing, Modification N140A/109 has been approved. This provides for the fitting of 860228 Cap, Pipe, on the end of the coupling, this cap being removed only during testing. Due to restricted access to the connection, a special tool, 861872 Spanner, Wrench, has been designed to fit and remove the cap.
- Action to be taken by RANADs* 860228 Cap, is to be fitted to all missiles in accordance with the instructions contained in modification Leaflet N140A/109.
- Allowances* .. The following allowances are approved as spares for HMA ships fitted with Seacat Guided Weapons Systems—
- | | |
|-------------------------------|---------------|
| <i>860228 Cap, Pipe</i> | |
| Type 12 Destroyer Escorts | .. 3 per ship |
| <i>861872 Spanner, Wrench</i> | |
| Type 12 Destroyer Escorts | .. 2 per ship |
- Supply arrangements* .. Requirements of caps and spanners should be demanded from Superintending Armament Supply Officer, RAN Armament Depot, Sydney.
- Warrants* .. Warrants of Naval Armament Stores will be amended in due course.

(DAS 740/52/268)

UNCLASSIFIED

458—Laundry Charges in HMA Ships

A uniform charge shall continue to apply to the laundering of Departmental property in ships laundries to defray the costs of detergents used.

2. A flat rate of 5 cents per dozen articles is to be charged to public funds, in respect of all Service articles laundered.

(D of V 900/51/4)

UNCLASSIFIED

459—Local Purchase of Stores—Purchasing Procedure in HMA Ships and at Commissioned Establishments

The procedure, whereby an additional copy (on plain paper) of Local Purchase Orders raised in HMA ships and commissioned establishments is required to be prepared and forwarded to Navy Office monthly in accordance with Naval Store-keeping Manual, ABR 4, Article 2803, is to be discontinued as from the date of receipt of this order.

2. ABR 4, Article 2803, will be amended.

(DSAP 400/54/250)

UNCLASSIFIED

460—Machinery Spares—Form AD 318 (Revised 1964)—History Sheet for Internal Combustion Engines (Removable Type)

In order that a permanent and durable record of engine condition may be maintained on transfer from one authority to another Form AD 318 (Revised 1964) is, in future, to be completed and attached to the engine at a convenient point in a plastic envelope prior to the transfer.

2. While an engine is held in one of HMA ships the Engineer Officer is responsible for the custody of the form.

3. Forms AD 318 for Patrol Boat and Clearance Diving Vessel engines on transfer are to be forwarded to HMAS WATERHEN for compilation of engine histories, and onward dispatch as necessary.

(ACMD 464/55/120)

UNCLASSIFIED

461—Machinery and Spares—Stocktaking Discrepancy Reports—Valuing Discrepancies

In accordance with ABR 4, Article 1604, the actual cost of discrepancies of machinery and spares is required to be ascertained from the Area Finance Officer, Sydney.

2. Recently, that officer has experienced difficulty in valuing some Stocktaking Discrepancy Reports due to insufficient description being shown to enable prompt and positive identification of the items to be valued.

3. Machinery and spares rating records are generally classified under types of engines or machines and it is essential that the nomenclature as shown in ABR 4, Article 3508, be included in the description of all items forwarded to the Area Finance Officer, Sydney, for valuing.

4. The attention of all concerned is to be drawn to the necessity to take action accordingly in future.

5. ABR 4, Article 1604, will be amended.

(DSAP 1100/51/31)

RESTRICTED

462

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UNCLASSIFIED

462—Shot Guns, Ammunition, Clay Pigeons and Traps—Allowances and Supply on Repayment

Navy Order 551 of 1966 is to be amended as follows—

Paragraph 6—Establishments—

Insert "NIRIMBA",

(DNI 726/251/132)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

463—Stores (General) ABR 5074—RAN Catalogue of Stores

Further to Navy Order 279 of 1967 the covers for ABR 5074—RAN Catalogue of Stores are available on demand from SVSO REVY Jones Bay Road, Pyrmont, Sydney.

2. As far as practicable more than one group class is to be held in one pair of covers, but the group classes placed in any one pair of covers should not exceed three inches in thickness.

3. The following group classes of ABR 5074 have been distributed, and the relevant class groups of BR 810, BR 320D and RAN Supplement to BR 810 are hereby declared obsolete in HMA ships and commissioned establishments (Paragraph 2 of Navy Order 279 of 1967 refers) and should be disposed of in accordance with ABR 4, Article 2513. BR 320B should be retained for reference for pricing purposes. If the BR 320B section has not been revised for any group, the relevant section of BR 810 should be retained for pricing purposes—

0211, 0213, 0221, 0222, 0231, 0243, 0247, 0249, 0251, 0252, 0253, 0254, 0255, 0256, 0257, 0259, 0263, 0272, 0275, 0310, 0330, 0340, 0411, 0412, 0415, 0421, 0422, 0423, 0431, 0432, 0435, 0441, 0442, 0444, 0445, 0451, 0462, 0471, 0472, 0473, 0474, 0477, 0481 and 0721.

4. Provision has been made for the supply of spines for each pair of covers, to protect the contents and also as a means of recording the group classes contained therein. Separate instructions will be issued when supply of these are available.

(DSAP 465/52/1292)

(Navy Order 279 of 1967)

ANO 464/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
15th November, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

**464—Introduction of EDP into Personnel Administration in the RAN—
Instructions for Rendering Personnel Census Forms**

Navy Order 446 of 1967 gave an outline of the introduction of Electronic Data Processing procedures into the personnel administration function in the RAN.

2. In order that personal files may be created from the existing manual records it will be necessary to hold a census. The purpose of this order is to promulgate information regarding the distribution, completion and return of the Census Forms.

Census Date

3. The census will be conducted so as to indicate the actual personal details of all members on 4th April, 1968, and this date will be known as "Census Day".

General Instructions for Completing the Personnel Census Form

4. In the following instructions the term "ship" should be read as meaning ship, submarine, establishment or air squadron as appropriate.

5. Whenever the term "PNF" is used in the form it refers to the Permanent Naval Forces of Australia and not to the Permanent Naval Forces of other countries.

6. Do not "doodle" on the form or fill in the "stippled" spaces. Any odd marks on the form may be interpreted by data operators as instructions.

7. It should be noted that many of the spaces for recording information in chronological order must be completed from left to right and not from top to bottom, viz., Lines 8-10, 23 and 24, 47-49, 50 and 51, 56-58, 62-68 and 129-130.

8. Where the answer to a question is not known or the question is not applicable the space must be left blank. The only exception is Line 16 under "Retirement Fund" where a code number is provided to meet this situation. The abbreviations "N/K" and "N/A" must not be used anywhere on the form.

9. In all cases where a "box" is provided for the answer within the rectangle allocated to the question, the answer should be only the letter(s) or figure(s) obtained from the code tables or the code printed on the form adjacent to the "box". The only exceptions are given in the following paragraph.

10. In Lines 17, 114-125, 127 and 128 there are "boxes" in which the answer is required to be given in "Number of days" or "Number of times". The answers in these cases must be given in figures not words.

11. Dates must always be given in seven alpha-numeric characters with no spaces, commas or stops. For example, the date 3rd July, 1967, would be written 03JUL67. The letters must always be the first three letters of the name of the month.

12. Certain spaces in the form will be coloured red and it is mandatory that the questions in these spaces be answered. Failure to do so, without some accompanying explanation (e.g., circumstances such as those envisaged in Paragraphs 20 and 22), will result in the form being returned to the ship for re-checking.

13. However, in the case of officers they will only be required to complete Lines 1 to 11 and 16, the remaining mandatory information being supplied by the Naval Personnel Branch from officers personal records at Navy Office. This will be done after the Census Forms have been returned to Navy Office.

14. It should be noted that not all of the information required in the case of a sailor will be available on his Service Certificate and officers responsible for completing the Census Form for him should arrange to interview him to obtain the additional information.

Distribution and Return of Forms

15. Forms for officers will be distributed during December, 1967, and they are to be dispatched to reach Navy Office by 8th February, 1968.

16. Census Forms for sailors, Naval Dockyard Police, PNG Division and WRANS will be distributed on 22nd February, 1968. They are to be completed with information current on Census Day, after which they are to be returned to Navy Office as early as possible.

Census Forms for Absentees

17. The Certificate of Service of any sailor checked to absence on or after 22nd February, 1968, is to be retained in the ship or establishment from which he deserted.

18. The Census Form is to be raised by the ship or establishment from which he deserted.

19. If the sailor is recovered before Census Day his Census Form is to be compiled in the normal manner. Where, however, on recovery he is posted to a ship or establishment other than that from which he deserted, his partially completed Census Form, together with his Certificate of Service is to be forwarded to his new ship or establishment for completion.

20. If the sailor is not recovered by Census Day his partially completed Census Form and his Certificate of Service are to be forwarded to Navy Office on the day following Census Day.

21. During the period 22nd February, 1968, to 4th April, 1968, the instructions in Regulations and Instructions for the RAN, Article 1064 (8), will be in abeyance, coming into force again on 5th April, 1968.

Census Forms Not Completed Because Certificate of Service is Not Available

22. It is envisaged that cases will arise where a Census Form cannot be completed because a sailor's certificate is not held in the ship or establishment (e.g., it has been forwarded to Navy Office in connection with an application for re-engagement).

23. In such a case the reporting ship should complete the personal details on the Census Form and return it to Navy Office in accordance with Paragraph 16 stating that the Certificate of Service was not available and, where possible, its present whereabouts.

24. Where it is not possible to raise a Census Form due to unavailability of the member, e.g., extended leave, transit, serious illness, etc., the form should be retained until it is possible to do so. However when the completed forms for the remainder of the ship are being returned to EDP a list of such cases with reasons for non-remission should be forwarded.

Annotations on Certificates of Service

25. When the Census Form for a sailor has been completed the notation "Census Form Raised" is to be made on his Certificate of Service immediately above the heading "Certificate of Service of".

26. If the Census Form is not completely filled in the notation should be "Census Form Partially Completed".

Code Tables

27. In the instructions for completing the Census Form reference is made frequently to "code tables". Some of these are printed on the form adjacent to the question to which they refer. The remainder are given as Appendix B to this order.

Detailed Instructions for Completing the Census Form

28. Detailed instructions dealing with individual questions on the form are given as Appendix A to this order.

Instruction in EDP Census and Personnel Reporting Procedures

29. Arrangements will be made for those concerned with the completion of Census Forms for sailors and subsequent personnel reporting procedures to be given oral instruction on these subjects prior to Census Day. Details of these arrangements will be promulgated separately.

APPENDIX A

Detailed Instructions for Completing the EDP Personnel Census Form

PH 21 .. Reporting Ship Number

The number used should be that of the ship in which the member is at present serving irrespective of whether or not he is posted to it, except in the case of tenders. For members serving in Tenders the reporting ship is the ship in which the Tenders Office is situated. The reporting ship in the case of an air squadron, whether front or second line, is the ship in which it is stationed on Census Day.

Personnel Status

Reserve personnel carrying out annual continuous training are not to be included in the census. For the purposes of this census the code letter "C" will not be used.

Line 1 .. Personal Number

In this space the designating letter (e.g., O for PNF Officers W for WRANS, etc.) should be printed on the left of the dividing line and the figures on the right.

Given Names

Ensure that this term is understood by any members who may use different terms, e.g., "forenames", "Christian names", etc. The surname and given names supplied in the answer should be those shown on the members Certificate of Service. Where these differ from those shown on the members Birth Certificate, details of former surname and/or given names and reasons for the change should be given, where possible, on Page 9 of the census form. Where a person of foreign extraction has assumed either legally or with Naval Board approval or by common usage an anglicised version of his surname and/or given names this should be noted on Page 9.

APPENDIX A—continued

Line 2 .. Religion

If a member is affiliated to a religion not listed in Table 3 the code number (98) for "Other" is to be used in this box. In this case it is mandatory that the religious affiliation be noted in full on Page 9.

Official Number

This space refers only to a member for whom an entry in the previous box ("If NOT PNF") is required. It does not refer to PNF Personal Numbers.

Line 3 .. Place of Birth

If the term "state" has no equivalent in the country of birth outside Australia give only the town and country of birth.

Nationality at Birth

United Kingdom nationals (whether born in the United Kingdom or overseas where they automatically acquire British nationality) should be shown as "British". Other Commonwealth nationals and persons born in non-Commonwealth countries should give the nationality which they acquired at birth (e.g., Australian, Canadian, American, Italian.) If a person was "stateless" at birth, his nationality at birth should be given as "stateless" in Line 3. His fathers nationality, if known, should be shown on Page 9.

Line 4 .. Height

This must be given in inches to two decimal places, e.g., a height of 5' 11 $\frac{1}{4}$ " would be shown as

Height	
71	75

The height should be given to the nearest quarter of an inch and only four choices of decimals are available, viz., 00, 25, 50 and 75.

Wounds, Scars and Marks

These should be described in general terms only, e.g., "Tattoo right forearm". The description including spaces should not exceed 48 characters.

The abbreviations L and R (for left and right) may be used, e.g., Left leg—LLEG, Right arm—RARM.

Line 7 .. Address

If the dwelling has no number merely give the street name. Be prepared for unusual addresses, e.g., RMB 21, Wagga. An address such as Flat 2, 13 George Street would be shown as 2/13 George St. If the address were Flat 2, Block 5, 13 George Street it would be shown as 2/5/13 George St. Recognised abbreviations should be used where possible (e.g. HWY for Highway, AVE for Avenue) particularly if the address is a long one.

APPENDIX A—continued

Line 8 .. Dependent Children

The definition of a dependent child for the purposes of this census is that given in Naval Pay Instructions, Article 231/1, viz., "Child" in relation to a member means—

- (a) the child (not being an ex-nuptial child, but including a child legitimated pursuant to the provisions of Part VI of the Marriage Act, 1961) or the step-child of the member; or
- (b) the legally adopted child of the member.

"Dependent children" are those of his children who—

- (a) ordinarily reside in his home;
- (b) require to be transferred to a new destination if he is posted or terminates his service;
- (c) are under the age of twenty-one years;
- (d) are over the age of twenty-one years but are dependent on the member through illness or infirmity.
- (e) being a female child who has attained the age of twenty-one years, is required to travel to the members destination for domestic or other special reasons.

Line 11 .. Secondary Education

Ensure that only secondary education details are included.

Note that the choices given in the space entitled "Highest Certificate Gained" have the following meanings—

- (a) *Leaving Certificate*—Victorian Leaving Certificate. NOT NSW Leaving Certificate.
- (b) *Higher School Certificate*—NSW Higher School Certificate only.
- (c) *Senior Certificate*—Queensland Senior Certificate only.

If the member has passed the matriculation examination of any Australian University, the NSW Leaving Certificate examination or the equivalent examinations in Western Australia, South Australia or Tasmania the answer will be "Matriculation"—Code 4.

Line 12 .. Entry/Discharge Particulars

Ensure that a distinction is made between re-entry and re-engagement. Re-entry occurs only when the member has been out of the RAN for one day or more between engagements.

Line 13 .. Address on Entry/Last Re-entry

Only one address should appear in this space and it will be the address on entry to the RAN or last re-entry to the RAN whichever is the later. See definition of "Re-entry" for Line 12.

Line 14 .. Current Service

The information on sea or shore service is required for promotion purposes. The date given for the start of current sea or shore service should be the date when a member commenced his present unbroken sea or shore service and not merely his current posting. Service in front line squadrons, embarked flights of second line squadrons and the Vietnam Helicopter Flight counts as sea service. Temporary service at sea when a posting has not been issued, and service in HMAS TARANGAU and MELVILLE do not count as sea service for the purpose of this question.

APPENDIX A—continued

Line 15 .. Security Grading

If the security grading is not known or the member has not yet received a security grading leave this space blank.

Line 16 .. Retirement Fund

Apprentices, Boy Musicians and Junior Recruits are to be shown as "DFRB" (Code 1). Members of other navies are to be shown as "Not Applicable" (Code 3).

Removals at Departmental Expense

This question refers to movements at departmental expense of the members family, furniture, household effects or car or any combination of these. It does not refer to personal travel resulting from a posting or temporary attachment to another ship.

Line 17 .. Swimming Test

If a waiver of the test has been approved the reference of the Navy Office letter is to be noted on Page 9. If a sailors Service Certificate is annotated "PPT (Fair)" and he has attained a rank where a pass in the swimming test was necessary he should be shown as having passed (Code 1) unless there is evidence that the test was waived.

Line 18 .. Duty Type

This space is only to be completed when either or both of the two previous spaces require to be completed.

Line 19 .. Hometown

The definition of hometown for the purposes of this question is that given in Naval Pay Instructions, Article 217/2, viz.,

"(1) The destination to which a member is entitled to free travel will be known as his hometown and will be as follows:

- (a) Member other than a married member—the town in Australia in which his parent (or parents) usually reside.
- (b) Married member—the town in Australia in which his wife usually resides; or
- (c) Members not covered by (a) or (b)—the town in Australia approved by the Naval Board.

Line 20 .. Rank on Discharge

If a member held an acting rank on discharge from another service this should be shown, e.g., A/Corporal. It will be assumed that the substantive rank he held was one rank lower unless information to the contrary is given on Page 9. Any sub-specialist qualifications should also be shown, e.g., for a sailor who has served in the Royal Navy the entry might be POUCL, and for a sailor who has served in the RAAF, Corporal (Air Fitter). This description must, however, be limited to sixteen characters including spaces. The periods in other services should be shown in five digit code; for example, a period of three years seventeen days would be shown as

Years	Days
03	017

APPENDIX A—continued

Line 23 .. Engagements in the RAN

Before making any entries in this line ensure that the engagements have actually been effected (that is, commenced but not necessarily completed). Any engagements entered into but not yet commenced should be shown on Line 26. A sailor may have entered before the age of 18 but not commenced the engagement for which he entered until he attained the age of 18. The start date of the engagement is to be shown as the actual date of entry and the period of engagement as the total time from date of entry to the expiry of the engagement. For example, if a sailor entered on his sixteenth birthday and entered into an engagement to serve for six years from the age of eighteen the start date of his first engagement would be shown as the date of his sixteenth birthday and the period of the engagement would be eight years.

In the case of Naval Dockyard Police engagements in the RAN prior to transfer to or re-entry to the NDP are to be shown.

Line 26 .. Re-engagements Executed but Not yet Effective

See under Line 23.

Line 28 .. Volunteer for

The answers in this line should refer only to those duties for which a member has volunteered and been recommended prior to Census Day in accordance with normal Service practice. There is no intention that volunteer action should be initiated by use of the Census Form. This line should be left blank for NDP.

Line 29 .. Higher Educational Test

It should be noted that a sailor may not pass the HET subjects in the order shown on the Census Form. In the column "List Qualified For" there should be only one entry and this should be on the line showing the date on which the sailor passed the final examination to qualify for the list.

Line 38 .. Promotion Boards

Target rank and category should only be shown when the previous spaces in the line are completed. If a sailor failed to attend a Promotion Board after having applied for it the code number for "Fail" should be used. Where percentage marks are called for only the numerical answer should be given. On no account should the percentage sign (%) be put in the space. In the case of Apprentices Line 38 and the first four spaces in Line 39 are to be left blank. The only entry to be made for them is in the space headed "Date Passed all Parts" and this should be the date of their passing out from the RAN Apprentice Training Establishment. Naval Dockyard Policemens results in the board for Sergeant 2nd Class are to be entered in Line 38. For them, Line 39 is to be left blank.

NBCD Results

In the case of NDP the results obtained when they were sailors are to be shown.

APPENDIX A—continued

Line 41 .. Course Results

Courses which do not appear in ABR 27 Volume 3 are not to be included. Courses which appear in ABR 27 Volume 3 but are not currently relevant to the members career are not to be included.

Line 50 .. Time Gained/Lost

For the purposes of this question half a month is to be taken as 15 days. The time gained/lost should be reported in four digit code, e.g., a period of 3½ months would be shown as

Months	Days
03	15

and a period of half a month as

Months	Days
00	15

Line 52 .. CW Candidates

If CW papers have been raised and subsequently cancelled this field is to be left blank.

Lines 54 and 55 Honours and Awards—Foreign Decorations

If the date of award is not known the space is to be left blank.

Lines 59 and 60 Prizes, Special Awards, etc.

As for Lines 54 and 55.

Lines 69-93 .. Postings

Read very carefully the directions at the top of this page before completing these lines. If a member was in the RAN prior to 01JAN60 the current posting at 01JAN60 is to be the first entry (on Line 69). Even if 01JAN60 is not the start date of this posting it is to be shown as such. If a member is posted to an establishment to stand by a ship building the ship given in the second column is to be the establishment to which he is actually posted, e.g., a sailor posted to HMAS PENGUIN (for HMAS STALWART) would be shown as posted to HMAS PENGUIN.

Lines 94-113 .. Personnel Title Variations

Both officers and sailors may be granted Temporary rank. In the case of sailors this will be referred to as Temporary rank. For example, a Petty Officer Coxswain may be granted the Temporary rank of Temporary Chief Petty Officer. In the case of officers it will continue to be referred to as Acting rank. For example, a Lieutenant-Commander may be granted the Temporary rank of Acting Commander. In both of the above cases the Change Type is grant of Temporary rank (Code letter H). The Rank Type for sailors is

APPENDIX A—continued

temporary (Code letter T). For officers it is acting Code letter A. Acting rank in the case of officers should not be confused with the Acting rank held by sailors in the normal progression to Leading and Petty Officer rank. For example, the change from ME1 to A/LME is a promotion (Code letter P) and the rank type is substantive. When the sailor is confirmed in the higher rank e.g., an A/LME becomes an LME, this is a change in rank type only (Code letter T in the "Change Type" column). When completing this section for officers *note* carefully the additional instructions on Code Table 27 regarding Acting Sub-Lieutenants.

New Seniority Date and New Pay Seniority Date

Detailed instructions for completing these columns will be given during the instruction referred to in Paragraph 28 of this Navy Order.

Component of Force

The Component of Force should be shown as a single letter taken from code table No. 30.

Officers Appointed for Specific Periods

Periods in this column are to be reported in five digit code, e.g.,

Years	Days
02	020

Lines 114-126 Convictions by Court Martial and Warrant Punishments

If a member has only one conviction and is still serving the sentence on Census Day it is to be shown as "current" not "first" conviction. Convictions subsequently quashed and acquittals are to be disregarded.

Line 128 .. Run

The number of times marked "Run" includes all occasions on which "Run" was subsequently removed. If "Run" has not been removed leave the date blank.

Line 131 .. Conduct (Character) Assessment

On entry conduct is assessed as VG. If a sailor has not yet had an annual assessment the start date for his VG is his date of entry. In the column headed "Start date for present unbroken VG Conduct" there should be only one entry.

Census Papers Completion Certificate

The reporting officers name should be printed in block capitals below his signature.

Page 9 .. Additional Comment

Where a sailor disputes the correctness of an entry on his Service Certificate, the details shown in his Service Certificate are to be entered in answer to the questions in the body of the form and his comments recorded on Page 9. The line number shown in the column "Line No." should be the line in the body of the form to which the remarks refer.

APPENDIX B

Table 1

SHIP/SOURCE No.

Census Form Lines—PH21, 18, 69-93, 141-146

Ship/Source	Code	Ship/Source	Code
HMA Ships—		Submarines—continued	
ANZAC	1074	TABARD	1627
ARUNTA	1120	TACITURN	1619
BANKS	1880	TRUMP	1600
BARCOO	1910	Patrol Craft—	
BASS	1872	ACUTE	2364
BOONAROO	2542	ADROIT	2372
BRISBANE	1090	ADVANCE	2380
CASTLEMAINE	1988	AITAPE	2356
CULGOA	1902	ARCHER	2399
CURLEW	1422	ARDENT	2402
DERWENT	1244	ARROW	2410
DIAMANTINA	1856	ASSAIL	2429
DUCHESS	1066	ATTACK	2437
EMU	1961	AWARE	2445
GASCOYNE	1864	BANDOLIER	2453
GULL	1414	BARBETTE	2461
HAWK	1406	BARRICADE	2496
HOBART	1082	BAYONET	2518
IBIS	1430	BOMBARD	2488
JEPARIT	2534	BUCCANEER	2526
KANGAROO	1945	LADAVA	2348
KARA KARA	1953	LAE	2313
KIMBLA	1899	MADANG	2321
KOALA	1937	SAMARAI	2305
MELBOURNE	1007	Air Squadrons—	
MORESBY	1821	723 Sqdn	2100
PALUMA	1848	724 Sqdn	2119
PARRAMATTA	1201	724 Sqdn "B" Flight	2151
PERTH	1104	725 Sqdn	2127
QUEENBOROUGH	1252	725 Sqdn "B" Flight	2186
QUIBERON	1279	805 Sqdn	2208
QUICKMATCH	1260	805 Sqdn "B" Flight	2267
SNIPE	1449	808 Sqdn	2232
SPRIGHTLY	1929	816 Sqdn	2135
STALWART	1996	816 Sqdn "B" Flight	2178
STUART	1228	817 Sqdn	2143
SUPPLY	1813	817 Sqdn "B" Flight	2194
SWAN	1287	850 Sqdn	2216
SYDNEY	1805	851 Sqdn	2224
TEAL	1457	VIETNAM Helo. Flight	2240
TOBRUK	1112	HMAS MELBOURNE Air	2259
TORRENS	1295	Group	
VAMPIRE	1058	Other Mobile Units	
VENDETTA	1031	CDT 3	2992
VOYAGER	1686	Shore Establishments—	
WOOMERA	1694	ALBATROSS	3018
YARRA	1236	CARPENTARIA	3506
Submarines—		CERBERUS	3026
ONSLow	1678	CRESWELL	3034
OTWAY	1643	ENCOUNTER	3042
OVENS	1651	HARMAN	3050
OXLEY	1635	HUON	3069

APPENDIX B—continued

TABLE 1—continued

Ship/Source	Code	Ship/Source	Code
Shore Establishments—continued		Overseas—continued	
KUTTABUL	3077	HMS MULL OF KINTYRE ..	3719
KUTTABUL II	3085	HMS TAMAR	3735
LEEUWIN	3093	HMS TERROR	3700
LONDON DEPOT	3522	HMS TRIUMPH	3743
LONSDALE	3107	KD MALAYA	3751
MELVILLE	3115	NSOCOMAFV	3778
MORETON	3123	SEATO Plan Staff BANGKOK	3530
NAVY OFFICE (HARMAN)	4774	Service Attache BANGKOK ..	3611
NAVY OFFICE (LONSDALE)	5002	Service Attache DJAKARTA ..	3549
NIRIMBA	3131	Service Attache KARACHI ..	3603
PENGUIN	3158	Service Attache MANILA ..	3565
PLATYPUS (post 1964)	3166	Service Attache NEW DELHI ..	3557
RUSHCUTTER	3174	Service Attache SAIGON ..	3573
TARANGAU	3182	Service Attache TOKYO ..	3581
TORRENS (pre 1964) ..	3190		
WARATAH	3514	Other Postings Sources—	
WATERHEN	3204	Exch—RCN	5584
WATSON	3212	Exch—RN	5592
		Exch—RNZN	5606
		Exch—USN	5576
Overseas—		Loan—RCN	5533
ALO KOREA	3638	Loan—RMN	5517
Defence Rep. NZ	3646	Loan—RN	5541
HMA LONDON DEPOT ..	3522	Loan—RNZN	5568
HMAS CARPENTARIA ..	3506	Loan—USN	5525
HMAS WARATAH	3514	Run	5509
HMNZS PHILOMEL	3727		

Table 2

MARITAL STATUS

Census Form Line 2

Status	Report
Single	1
Married	2
Widower	3
Legally Separated ..	4
Divorced	5
Annulled	6

APPENDIX B—continued

Table 3
RELIGION
Census Form Line 2

Denomination	Report
Seventh Day Adventist ..	1
Assemblies of God	2
Bahai	3
Baptist	4
Church of Brethren	5
Buddhist	6
Christian Scientist	7
Church of God	8
Church of Christ	9
Church of England	10
Congregational	11
Disciples of Christ	12
Dutch Reform Church ..	13
Exclusive Plymouth Brethren	14
Friends (Quaker)	15
Hindu	16
Jehovah's Witnesses	17
Jewish	18
Latter Day Saints	19
Lutheran	20
Methodist	21
Moslem	22
Church of the Nazarine ..	23
Greek Orthodox	24
Russian Orthodox	25
Presbyterian	26
Roman Catholic	27
Salvation Army	28
Unitarian	29
Other*	*98
No Religious Affiliation ..	99

(* Insert Details on Page 9.)

Table 4
OTHER SERVICES
Census Form Line 2

Name	Code
Royal Navy	1
United States Navy	2
United States Navy Reserve ..	3
Royal New Zealand Navy ..	4
Malaysian Navy	5
Pakistan Navy	6
Phillipines Navy	7
Thailand Navy	8
South African Navy	9
Japanese Maritime Self Defence Force	10
Indian Navy	11
South Korean Navy	12
Royal Australian Air Force ..	21
Royal Air Force	22
Royal New Zealand Air Force ..	23
United States Air Force ..	24
Australian Military Forces ..	31
United States Military Forces ..	32
New Zealand Military Forces ..	33
United Kingdom Military Forces	34
Royal Canadian Navy	35
Royal Canadian Air Force ..	36
Citizen Military Forces ..	37
South Vietnam Navy	38

Table 5

COLOUR OF HAIR

Census Form Line 5

Hair Colour	Code
Brown	1
Grey	2
Fair	3
Auburn	4
Red	5
Black	6
Bald*	7

(*No hair over most of the scalp)

Table 6

COLOUR OF EYES

Census Form Line 5

Eye Colour	Code
Brown	1
Grey	2
Blue	3
Hazel	4
Green	5
Dual*	6

(*Eyes of different colours)

Table 7

COMPLEXION

Census Form Line 5

Complexion	Code
Dark	1
Sallow	2
Fair	3
Fresh	4
Flourid	5
Medium	6

APPENDIX B—continued

Table 8
RELATIONSHIP
Census Form Lines 6, 19

Person	Code
Father ..	1
Mother ..	2
Wife ..	3
Son ..	4
Daughter ..	5
Brother ..	6
Sister ..	7
Guardian ..	8
Other ..	9

Table 9
AUSTRALIAN STATE/POST CODE
Census Form Lines 7, 11, 13, 19

State		Code
NSW ..	..	2000
ACT ..	..	2600
VIC ..	..	3000
QLD ..	..	4000
SA ..	..	5000
NT ..	..	5750
WA ..	..	6000
TAS ..	..	7000
NG ..	..	8000
AET ..	..	8001
Other ..	..	1000

Instructions—
(a) For all addresses outside Australia, New Guinea and the Australian External Territories, insert "1000"—regardless of any other allocated Post or Zip Code.
(b) Where applicable, insert Australian Post Code if known; otherwise insert the State Code from the following table.

Table 10
DISCHARGE REASON
Census Form Lines 12, 20–22

Reason	Code
Appointment Cancelled ..	1
Appointment Terminated ..	2
Below Naval Physical Standard ..	3
Commission Cancelled ..	4
Completion of Full-Time Service ..	5
Dead ..	6
Disability Present on Entry ..	7
Dismissal ..	8
Engagement Expired ..	9
Fraudulent Entry ..	10
Free ..	11
Free under Sect. 25A of NDA ..	12
On Marriage ..	13
Physically Unfit for Naval Service ..	14
Resignation ..	15
Retirement ..	16
Reversion to another Service ..	17
Services No Longer Required ..	18
Shore ..	19
Shore (Ex-Cadet WRAN) ..	20
Shore (Ex-Regulator) ..	21
Shore (Failed Training) ..	22
Temperamentally Unsuitable for Service Life ..	23
Transfer to another Service ..	24
Unsuitable ..	25
Withdrawn ..	26

APPENDIX B—continued

Table 11
HOME PORT/PREFERENCE LOCALITY
Census Form Line 15 (Twice)

Location	Code
Sydney ..	1
Melbourne ..	2
Brisbane ..	3
Adelaide ..	4
Fremantle ..	5
Hobart ..	6
Canberra ..	7
Nowra ..	8
PNG* ..	9*

Instructions—
For reporting PREFERENCE LOCALITY, two characters are required. The 1st character is derived from the following table, and the 2nd character will be either "1" or "2", as follows—
1—Second preference to Home Port.
2—Posting to Home Port not desired.

*Does not apply as a Preference Locality

Table 12
SECURITY GRADING
Census Form Line 15

Clearance Level	Report
Top Secret Crypto Access ..	1
Top Secret No Crypto Access ..	2
Intermediate Check Crypto Access ..	3
Intermediate Check No Crypto Access ..	4
Secret No Crypto Access ..	5
Primary Check No Crypto Access ..	6
PNG Secret PNG Crypto Access ..	7
PNG Secret No PNG Crypto Access ..	8
PNG Primary Check ..	9

APPENDIX B—continued

Table 13
POSTINGS—DUTY TYPE
Census Form Lines 18, 93

Duty Type	Report
First Posting of an Officer after entry	NEWENT
To a Complement Billet	BILLET
To a Complement Billet, less than 90 days	TBILLET
Additional to Complement	ADDNL
To a Course (No Relief)	COURSE
To a Course (Relief may be Posted)	PCOURSE
For Training	U/T
For Temporary or Special Duty	TEMDU
To await Commissioning of a New Ship	NUSHIP
Attached to another Service	ATTACH
For Exchange Duty in another Service	EXCH
For Loan to another Service	LOAN
Posted for Leave	PFORLV
To Naval Hospital or for Medical Reasons	MED
Desertion	DESERT
For Disciplinary Reasons/Awaiting Trial	DCIP
Half-Pay for Disciplinary Reasons	HDIS
Missing	MISS
Prisoner of War	PW
Discharge	DISCH

Table 14
TYPE OF SERVICE/APPOINTMENT
Census Form Lines 25, 94–113

Type	Report	Type	Report
Permanent Commission	0	Attachment	5
Short Service Commission	1	Mobilised	6
Full-Time Service	2	Called Out	7
Loan Service	3	Transferred to NDP	8
Exchange Service	4		

Table 15
EXTENSION OF SERVICE
Census Form Line 27

Reason/Type	Code
Extension of Retiring Age	1
Medical (Sect. 28A of NDA)	2
Service Requirements (Sect. 28A of NDA)	3
Short Service Commission	4
Full-Time Service	5

APPENDIX B—continued

Table 16
VOLUNTEER FOR
Census Form Line 28

Item	Report	Item	Report
MARALINGA	1	SINGAPORE Area	10
TARANGAU Unaccompanied	2	Regulating Branch	11
TARANGAU Accompanied	3	Linguist	12
MELVILLE Unaccompanied	4	Recruiting Duties	13
MELVILLE Accompanied	5	Submarine Service	14
PNG Patrol Craft Unaccompanied	6	Air Branch	15
PNG Patrol Craft Accompanied	7	Physical Training	16
Other Remote Locality— Unaccompanied	8	Special Call by the Naval Board 1st Military Corrective Estab.— HOLSWORTHY	17
Other Remote Locality— Accompanied	9	Forgo Sea/Shore Roster Position	19
		Naval Staff Course	20

Table 17
SAILORS/WRANS/NDP—RANK/BRANCH/CAT
Census Form Lines 38, 94–113, 141–146
Note—Rank Prefixes are contained in Table 26

Branch and Category	Rank	Report	
General	Recruit (Adult)	RCT	
	Junior Recruit 1st Class	JR1	
	Junior Recruit 2nd Class	JR2	
	Naval Artificer Apprentice	NAA	
Seaman	Chief Petty Officer Coxswain	CPOCOX	
	Petty Officer Coxswain	POCOX	
Quartermaster Gunner	Chief Petty Officer Quartermaster Gunner	CPOQMG	
	Petty Officer Quartermaster Gunner	POQMG	
	Leading Seaman Quartermaster Gunner	LSQMG	
	Able Seaman Quartermaster Gunner	ABQMG	
	Able Seaman Quartermaster Gunner 2nd Class	ABQMG2	
Ordinary Seaman (Quartermaster Gunner)	Ordinary Seaman (Quartermaster Gunner)	ORDQMG	
	Clearance Diver	Chief Petty Officer Clearance Diver	CPOCD
		Petty Officer Clearance Diver	POCD
		Leading Seaman Clearance Diver	LSCD
		Able Seaman Clearance Diver	ABCD
Able Seaman Clearance Diver 2nd Class		ABCD2	
Ordinary Seaman (Clearance Diver)	Ordinary Seaman (Clearance Diver)	ORDCD	
	Survey Recorder	Chief Petty Officer Surveying Recorder	CPOSR
		Petty Officer Surveying Recorder	POSR
		Leading Seaman Surveying Recorder	LSSR
		Able Seaman Surveying Recorder	ABSR
Able Seaman Surveying Recorder 2nd Class		ABSR2	
Ordinary Seaman (Surveying Recorder)	ORDSR		

Continued . . .

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Seaman—continued Underwater Weapons	Chief Petty Officer Underwater Weapons ..	CPOUW
	Petty Officer Underwater Weapons ..	POUW
	Leading Seaman Underwater Weapons ..	LSUW
	Able Seaman Underwater Weapons ..	ABUW
	Able Seaman Underwater Weapons 2nd Class Ordinary Seaman (Underwater Weapons) ..	ABUW2 ORDUW
Physical Trainer ..	Chief Petty Officer Physical Trainer ..	CPOPT
	Petty Officer Physical Trainer ..	POPT
	Leading Seaman Physical Trainer ..	LSPT
	Able Seaman Physical Trainer ..	ABPT
Radar Plot ..	Chief Petty Officer Radar Plot ..	CPORP
	Petty Officer Radar Plot ..	PORP
	Leading Seaman Radar Plot ..	LSRP
	Able Seaman Radar Plot ..	ABRP
	Able Seaman Radar Plot 2nd Class ..	ABRP2
	Ordinary Seaman (Radar Plot) ..	ORDRP
Underwater Control	Chief Petty Officer Underwater Control ..	CPOUC
	Petty Officer Underwater Control ..	POUC
	Leading Seaman Underwater Control ..	LSUC
	Able Seaman Underwater Control ..	ABUC
	Able Seaman Underwater Control 2nd Class ..	ABUC2
	Ordinary Seaman (Underwater Control) ..	ORDUC
Fire Control ..	Chief Petty Officer Fire Control ..	CPOFC
	Petty Officer Fire Control ..	POFC
	Leading Seaman Fire Control ..	LSFC
	Able Seaman Fire Control ..	ABFC
	Able Seaman Fire Control 2nd Class ..	ABFC2
	Ordinary Seaman (Fire Control) ..	ORDFC
Weapon Mechanic ..	Chief Petty Officer Weapon Mechanic ..	CPOWM
	Petty Officer Weapon Mechanic ..	POWM
	Leading Seaman Weapon Mechanic ..	LSWM
	Able Seaman Weapon Mechanic ..	ABWM
	Able Seaman Weapon Mechanic 2nd Class ..	ABWM2
	Ordinary Seaman (Weapon Mechanic) ..	ORDWM
Communication Tactical ..	Chief Communication Yeoman ..	CCY
	Communication Yeoman ..	CY
	Leading Tactical Operator ..	LTO
	Tactical Operator ..	TO
	Tactical Operator 2nd Class ..	TO2
	Ordinary Seaman (Communication Operator) ..	ORDCO
Radio ..	Chief Radio Supervisor ..	CRS
	Radio Supervisor ..	RS
	Leading Radio Operator ..	LRO
	Radio Operator ..	RO
	Radio Operator 2nd Class ..	RO2
Special ..	Chief Radio Supervisor Special ..	CRSS
	Radio Supervisor Special ..	RSS
	Leading Radio Operator Special ..	LROS
	Radio Operator Special ..	ROS
	Radio Operator Special 2nd Class ..	ROS2

Continued . . .

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Communication—con- tinued Data ..	Chief Data Supervisor ..	CDS
	Data Supervisor ..	DS
	Leading Data Operator ..	LDO
	Data Operator ..	DO
	Data Operator 2nd Class ..	DO2
	Linguist ..	Chief Petty Officer Linguist .. Petty Officer Linguist ..	CPOLIN POLIN
Marine Engineering Engine Room Artificer	Chief Engine Room Artificer ..	CERA
	Engine Room Artificer 1st Class ..	ERA1
	Engine Room Artificer 2nd Class ..	ERA2
	Engine Room Artificer 3rd Class ..	ERA3
	Engine Room Artificer Apprentice ..	ERAA
	Engine Room Artificer Recruit ..	ERARCT
Engine Room Artificer Diesel	Chief Engine Room Artificer Diesel ..	CERAD
	Engine Room Artificer Diesel 1st Class ..	ERAD1
	Engine Room Artificer Diesel 2nd Class ..	ERAD2
	Engine Room Artificer Diesel 3rd Class ..	ERAD3
	Engine Room Artificer Diesel Apprentice ..	ERADA
	Engine Room Artificer Diesel Recruit ..	ERADRCT
Mechanician ..	Chief Mechanician ..	CMECH
	Mechanician 1st Class ..	MECH1
	Mechanician 2nd Class ..	MECH2
Mechanician Diesel ..	Chief Mechanician Diesel ..	CMECHD
	Mechanician Diesel 1st Class ..	MECHD1
	Mechanician Diesel 2nd Class ..	MECHD2
Naval Shipwright ..	Chief Naval Shipwright ..	CNS
	Naval Shipwright 1st Class ..	NS1
	Naval Shipwright 2nd Class ..	NS2
	Naval Shipwright 3rd Class ..	NS3
	Naval Shipwright Apprentice ..	NSA
	Naval Shipwright Recruit ..	NSRCT
Engineering Mechanic	Chief Engineering Mechanic ..	CME
	Petty Officer Engineering Mechanic ..	POME
	Leading Engineering Mechanic ..	LME
	Engineering Mechanic ..	ME
	Engineering Mechanic 2nd Class ..	ME2
	Ordinary Seaman (Engineering Mechanic) ..	ORDME
Engineering Mechanic Diesel	Chief Engineering Mechanic Diesel ..	CMED
	Petty Officer Engineering Mechanic Diesel ..	POMED
	Leading Engineering Mechanic Diesel ..	LMED
	Engineering Mechanic Diesel ..	MED
	Engineering Mechanic Diesel 2nd Class ..	MED2
Electrical Systems Artificer Power	Chief Systems Artificer Power ..	CSAP
	Systems Artificer Power 1st Class ..	SAP1
	Systems Artificer Power 2nd Class ..	SAP2
	Systems Artificer Power 3rd Class ..	SAP3
	Systems Artificer Apprentice Power ..	SAAP

Continued . . .

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Electrical—continued Systems Artificer Weapons	Chief Systems Artificer Weapons	CSAW
	Systems Artificer Weapons 1st Class	SAW1
	Systems Artificer Weapons 2nd Class	SAW2
	Systems Artificer Weapons 3rd Class	SAW3
	Systems Artificer Apprentice Weapons	SAAW
Systems Artificer Communications	Chief Systems Artificer Communications	CSAC
	Systems Artificer Communications 1st Class	SAC1
	Systems Artificer Communications 2nd Class	SAC2
	Systems Artificer Communications 3rd Class	SAC3
	Systems Artificer Apprentice Communications	SAAC
Systems Artificer (Others)	Systems Artificer Apprentice Electronics	SAAE
	Systems Artificer Recruit	SARCT
Ordnance Artificer Power	Chief Ordnance Artificer Power	COAP
	Ordnance Artificer Power 1st Class	OAP1
	Ordnance Artificer Power 2nd Class	OAP2
	Ordnance Artificer Power 3rd Class	OAP3
Ordnance Artificer Weapons	Chief Ordnance Artificer Weapons	COAW
	Ordnance Artificer Weapons 1st Class	OAW1
	Ordnance Artificer Weapons 2nd Class	OAW2
	Ordnance Artificer Weapons 3rd Class	OAW3
Electrical Artificer Power	Chief Electrical Artificer Power	CEAP
	Electrical Artificer Power 1st Class	EAP1
	Electrical Artificer Power 2nd Class	EAP2
	Electrical Artificer Power 3rd Class	EAP3
Electrical Artificer Weapons	Chief Electrical Artificer Weapons	CEARW
	Electrical Artificer Weapons 1st Class	EAW1
	Electrical Artificer Weapons 2nd Class	EAW2
	Electrical Artificer Weapons 3rd Class	EAW3
Electrical Artificer Communications	Chief Electrical Artificer Communications	CEARC
	Electrical Artificer Communications 1st Class	EAC1
	Electrical Artificer Communications 2nd Class	EAC2
	Electrical Artificer Communications 3rd Class	EAC3
Electrical Artificer Radio	Chief Electrical Artificer Radio	CEAR
	Electrical Artificer Radio 1st Class	EAR1
	Electrical Artificer Radio 2nd Class	EAR2
	Electrical Artificer Radio 3rd Class	EAR3
Electrical Mechanic Power	Chief Electrician Power	CEP
	Petty Officer Electrician Power	POEP
	Leading Electrical Mechanic Power	LEMP
	Electrical Mechanic Power	EMP
	Electrical Mechanic Power 2nd Class	EMP2
	Ordinary Seaman (Electrical Mechanic)	ORDEM
Electrical Mechanic Weapons Electronic	Chief Electrician Weapons Electronic	CEWE
	Petty Officer Electrician Weapons Electronic	POEWE
	Leading Electrician Mechanic Weapons Electronic	LEMWE
	Electrical Mechanic Weapons Electronic	EMWE
	Electrical Mechanic Weapons Electronic 2nd Class	EMWE2

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Electrical—continued Electrical Mechanic Weapons Radio	Chief Electrician Weapons Radio	CEWR
	Petty Officer Electrician Weapons Radio	POEWR
	Leading Electrical Mechanic Weapons Radio	LEMWR
	Electrical Mechanic Weapons Radio	EMWR
	Electrical Mechanic Weapons Radio 2nd Class	EMWR2
Electrical Mechanic Communications	Chief Electrician Communications	CEC
	Petty Officer Electrician Communications	POEC
	Leading Electrical Mechanic Communications	LEMC
	Electrical Mechanic Communications	EMC
	Electrical Mechanic Communications 2nd Class	EMC2
Aircrew Observer	Observer 1st Class	OBS1
	Observer 2nd Class	OBS2
Naval Airman Aircraftman	Chief Airman Aircraftman	CACM
	Petty Officer Airman Aircraftman	POACM
	Leading Airman Aircraftman	LACM
Underwater Control Air	Chief Airman Underwater Control Air	CAUC
	Petty Officer Airman Underwater Control Air	POAUC
	Leading Airman Underwater Control Air	LAUC
	Naval Airman Underwater Control Air	NAUC
Aircraft Handler	Chief Airman Aircraft Handler	CAAH
	Petty Officer Airman Aircraft Handler	POAAH
	Leading Airman Aircraft Handler	LAAH
	Naval Airman Aircraft Handler	NAAH
	Naval Airman Aircraft Handler 2nd Class	NAAH2
	Ordinary Seaman (Naval Airman)	ORDNA
Meteorological Observer	Chief Airman Meteorological Observer	CAMET
	Petty Officer Airman Meteorological Observer	POAMET
	Leading Airman Meteorological Observer	LAMET
	Naval Airman Meteorological Observer	NAMET
	Naval Airman Meteorological Observer 2nd Class	NAMET2
Photographer	Chief Airman Photographer	CAPHOT
	Petty Officer Airman Photographer	POAPHOT
	Leading Airman Photographer	LAPHOT
	Naval Airman Photographer	NAPHOT
	Naval Airman Photographer 2nd Class	NAPHOT2
Safety Equipment	Chief Airman Safety Equipment	CASE
	Petty Officer Airman Safety Equipment	POASE
	Leading Airman Safety Equipment	LASE
	Naval Airman Safety Equipment	NASE
	Naval Airman Safety Equipment 2nd Class	NASE2
Air Engineering Aircraft Artificer Air- frames Engines	Chief Aircraft Artificer Airframes Engines	CAA
	Aircraft Artificer Airframes Engines 1st Class	AA1
	Aircraft Artificer Airframes Engines 2nd Class	AA2
	Aircraft Artificer Airframes Engines 3rd Class	AA3
	Aircraft Artificer Apprentice	AAA
	Aircraft Artificer Recruit	AARCT

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Air Engineering—continued		
Aircraft Mechanician Airframes Engines	Chief Aircraft Mechanician Airframes Engines	CMECHAE
	Aircraft Mechanician Airframes Engines 1st Class	MECHAE1
	Aircraft Mechanician Airframes Engines 2nd Class	MECHAE2
Aircraft Mechanician Weapons	Chief Aircraft Mechanician Weapons	CMECHW
	Aircraft Mechanician Weapons 1st Class	MECHW1
	Aircraft Mechanician Weapons 2nd Class	MECHW2
Naval Air Mechanic Airframes Engines	Chief Air Mechanic Airframes Engines	CAMAE
	Petty Officer Air Mechanic Airframes Engines	POAMAE
	Leading Air Mechanic Airframes Engines	LAMAE
	Naval Air Mechanic Airframes Engines	NAMAE
	Naval Air Mechanic Airframes Engines 2nd Class	NAMAE2
	Ordinary Seaman (Naval Air Mechanic)	ORDNAM
Naval Air Mechanic Weapons	Chief Air Mechanic Weapons	CAMW
	Petty Officer Air Mechanic Weapons	POAMW
	Leading Air Mechanic Weapons	LAMW
	Naval Air Mechanic Weapons	NAMW
	Naval Air Mechanic Weapons 2nd Class	NAMW2
Air Electrical		
Systems Artificer Air	Chief Systems Artificer Air	CSAA
	Systems Artificer Air 1st Class	SAA1
	Systems Artificer Air 2nd Class	SAA2
	Systems Artificer Air 3rd Class	SAA3
	Systems Artificer Apprentice Air	SAAA
Systems Artificer Air Weapons	Chief Systems Artificer Air Weapons	CSAAW
	Systems Artificer Air Weapons 1st Class	SAAW1
	Systems Artificer Air Weapons 2nd Class	SAAW2
	Systems Artificer Air Weapons 3rd Class	SAAW3
	Systems Artificer Apprentice Air Weapons	SAAAW
Systems Artificer Air Communications	Chief Systems Artificer Air Communications	CSAAC
	Systems Artificer Air Communications 1st Class	SAAC1
	Systems Artificer Air Communications 2nd Class	SAAC2
	Systems Artificer Air Communications 3rd Class	SAAC3
	Systems Artificer Apprentice Air Communications	SAAAC
Electrical Artificer Air	Chief Electrical Artificer Air	CEAA
	Electrical Artificer Air 1st Class	EAA1
	Electrical Artificer Air 2nd Class	EAA2
	Electrical Artificer Air 3rd Class	EAA3
Electrical Mechanic Air Weapons	Chief Electrician Air Weapons	CEAW
	Petty Officer Electrician Air Weapons	POEAW
	Leading Electrical Mechanic Air Weapons	LEMAW
	Electrical Mechanic Air Weapons	EMAW
	Electrical Mechanic Air Weapons 2nd Class	EMAW2
	Ordinary Seaman (Electrical Mechanic Air)	ORDEMA

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Air Electrical—continued		
Electrical Mechanic Air Communications	Chief Electrician Air Communications	CEAC
	Petty Officer Electrician Air Communications	POEAC
	Leading Electrical Mechanic Air Communications	LEMAC
	Electrical Mechanic Air Communications	EMAC
	Electrical Mechanic Air Communications 2nd Class	EMAC2
Medical		
Sick Berth	Chief Petty Officer Sick Berth Attendant	CPOSBA
	Petty Officer Sick Berth Attendant	POSBA
	Leading Sick Berth Attendant	LSBA
	Sick Berth Attendant	SBA
	Sick Berth Attendant 2nd Class	SBA2
	Ordinary Seaman Sick Berth Attendant	ORDSBA
Dental Assistant	Chief Petty Officer Dental Assistant	CPODA
	Petty Officer Dental Assistant	PODA
	Leading Dental Assistant	LDA
	Dental Assistant	DA
	Dental Assistant 2nd Class	DA2
	Ordinary Seaman (Dental Assistant)	ORDDA
Dental Mechanic	Chief Petty Officer Dental Mechanic	CPODM
	Petty Officer Dental Mechanic	PODM
	Leading Dental Mechanic	LDM
Supply and Secretariat		
Writer	Chief Petty Officer Writer	CPOWTR
	Petty Officer Writer	POWTR
	Leading Writer	LWTR
	Writer	WTR
	Writer 2nd Class	WTR2
	Ordinary Seaman (Writer)	ORDWTR
Stores S	Chief Petty Officer Stores Naval	CPOSN
	Petty Officer Stores Naval	POSN
	Leading Stores Assistant Naval	LSAN
	Stores Assistant Naval	SAN
	Stores Assistant Naval 2nd Class	SAN2
	Ordinary Seaman (Stores Assistant)	ORDSA
Stores V	Chief Petty Officer Stores Victualling	CPOSV
	Petty Officer Stores Victualling	POSV
	Leading Stores Assistant Victualling	LSAV
	Stores Assistant Victualling	SAV
	Stores Assistant Victualling 2nd Class	SAV2
	Ordinary Seaman (Stores Assistant)	ORDSA
Cook	Chief Petty Officer Cook	CPOCK
	Petty Officer Cook	POCK
	Leading Cook	LCK
	Cook	CK
	Cook 2nd Class	CK2
	Ordinary Seaman (Cook)	ORDCK

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report	
Supply and Secretariat— continued	Steward	Chief Petty Officer Steward	CPOSTD
		Petty Officer Steward	POSTD
		Leading Steward	LSTD
		Steward	STD
		Steward 2nd Class	STD2
		Ordinary Seaman (Steward)	ORDSTD
Butcher	Chief Petty Officer Butcher	CPOBCH	
	Petty Officer Butcher	POBCH	
	Leading Butcher	LBCH	
	Butcher	BCH	
Printer	Chief Petty Officer Printer	CPOPTR	
	Petty Officer Printer	POPTR	
	Leading Printer	LPRTR	
Regulating	Master at Arms	MAA	
	Regulating Petty Officer	RPO	
	Leading Patrolman	LPM	
Musician	Chief Petty Officer Musician	CPOMUSN	
	Petty Officer Musician	POMUSN	
	Leading Musician	LMUSN	
	Musician	MUSN	
	Ordinary Musician	OMUSN	
	Junior Musician	JMUSN	
	Recruit (Musician)	MUSNRCT	
	Recruit (Junior Musician)	JMUSNRCT	
Artisan	Joiner	Chief Joiner	CJNR
		Joiner 1st Class	JNR1
		Joiner 2nd Class	JNR2
		Joiner 3rd Class	JNR3
Blacksmith	Chief Blacksmith	CBLK	
	Blacksmith 1st Class	BLK1	
	Blacksmith 2nd Class	BLK2	
	Blacksmith 3rd Class	BLK3	
Plumber	Chief Plumber	CPLB	
	Plumber 1st Class	PLB1	
	Plumber 2nd Class	PLB2	
	Plumber 3rd Class	PLB3	
Painter	Chief Painter	CPTR	
	Painter 1st Class	PTR1	
	Painter 2nd Class	PTR2	
	Painter 3rd Class	PTR3	
Sailmaker	Chief Sailmaker	CSLMR	
	Sailmaker	SLMR	

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Naval Dockyard Police	Sergeant 1st Class	SGT1
	Sergeant 2nd Class	SGT2
	Constable	CONST
WRANS Communications	Chief WRAN Radio Supervisor (M)	CWRRSM
	WRAN Radio Supervisor (M)	WRRSM
	Leading WRAN Radio Operator (M)	LWRROM
	WRAN Radio Operator (M)	WRROM
	Recruit WRAN Radio Operator (M)	RWRROM
	Recruit WRAN Radio Operator	RWRRO
	Chief WRAN Radio Supervisor (T)	CWRRST
	WRAN Radio Supervisor (T)	WRRST
	Leading WRAN Radio Operator (T)	LWRROT
	WRAN Radio Operator (T)	WRROT
	Recruit WRAN Radio Operator (T)	RWRROT
	Chief WRAN Radio Supervisor General	CWRRSG
	WRAN Radio Supervisor General	WRRSG
Leading WRAN Radio Operator General	LWRRGO	
WRAN Radio Operator General	WRROG	
Linguist	Chief WRAN Linguist	CWRLIN
	Petty Officer WRAN Linguist	POWRLIN
	Leading WRAN Linguist	LWRLIN
Sick Berth	Chief WRAN Sick Berth Attendant	CWRSBA
	Petty Officer WRAN Sick Berth Attendant	POWRSBA
	Leading WRAN Sick Berth Attendant	LWRSBA
	WRAN Sick Berth Attendant	WRSBA
	Recruit WRAN Sick Berth Attendant	RWRSBA
Supply and Secretariat Writer	Chief WRAN Writer	CWRWTR
	Petty Officer WRAN Writer	POWRWTR
	Leading WRAN Writer	LWRWTR
	WRAN Writer	WRWTR
	Recruit WRAN Writer	RWRWTR
Writer CW	Petty Officer WRAN Writer CW	POWRWTRCW
	WRAN Writer CW	WRWTRCW
	Recruit WRAN Writer CW	RWRWTRCW
Writer ST	Leading WRAN Writer (ST)	LWRWTRST
	WRAN Writer (ST)	WRWTRST
	Recruit WRAN Writer (ST)	RWRWTRST
Stores N	Chief WRAN STORES N	CWRSN
	Petty Officer WRAN Stores N	POWRSN
Stores V	Chief WRAN Stores V	CWRSV
	Petty Officer WRAN Stores V	POWRSV
	Leading WRAN Stores Assistant V	LWRSVAV
	WRAN Stores Assistant V	WRSVAV
	Recruit WRAN Stores Assistant V	RWRSVAV

Continued

APPENDIX B—continued

TABLE 17—continued

Branch and Category	Rank	Report
Supply and Secretariat— continued Cook	Chief WRAN Cook	CWRCK
	Petty Officer WRAN Cook	POWRCK
	Leading WRAN Cook	LWRCK
	WRAN Cook	WRCK
	Recruit WRAN Cook	RWRCK
Steward	Chief WRAN Steward	CWRSTD
	Petty Officer WRAN Steward	POWRSTD
	Leading WRAN Steward	LWRSTD
	WRAN Steward	WRSTD
	Recruit WRAN Steward	RWRSTD
Regulating	Chief WRAN Regulating	CWRREG
	Petty Officer WRAN Regulating	POWRREG
	Leading WRAN Regulating	LWRREG
	WRAN Regulating	WRREG
Radar	Chief WRAN Radar Plot	CWRRP
	Petty Officer WRAN Radar Plot	POWRRP
	Leading WRAN Radar Plot	LWRRP
	WRAN Radar Plot	WRRP
	Recruit WRAN Radar Plot	RWRRP
Transport Drivers	Chief WRAN Motor Transport Driver	CWRMTD
	Petty Officer WRAN Motor Transport Driver	POWRMTD
	Leading WRAN Motor Transport Driver	LWRMTD
	WRAN Motor Transport Driver	WRMTD
	Recruit WRAN Motor Transport Driver	RWRMTD

Table 18

TIME GAINED/LOST

Census Form Line 50

Reason	Code
Course or Test Result	1
HET or ET1	2

Table 19

LIST TYPE

Census Form Lines 52, 94-113

List Title	Report
General List	GL
PNF Miscellaneous List	ML
Reserve List	RL
PNF Special Duties List	SD
Reserve Special Duties List	RS
Permanent Commission on Sup- plementary List	PS
Short Service Commission on Supplementary List	SL
Short Service Commission	SS
Undergraduate List	UV
Reserve Miscellaneous List	RM
No List	Leave Blank

APPENDIX B—continued

Table 20

MEDICAL CATEGORY

Census Form Line 53

Category	Code
A —Fit for service anywhere	1
B —Fit for posting to a ship/estab. where a full-time or part-time Medical Officer is borne	2
BY—Fit for posting to a ship/estab. where a full-time Medical Officer is borne	3
C —Under medical treatment and unfit for duty anywhere	4
D —Unfit for sea service temporarily but fit for duty on shore	5
E —Unfit for sea service but fit for duty on shore	6
K —Temporarily unfit for duty in a potentially malarious area	7
T —Under medical supervision, unfit for posting but fit for light duty	8
Y —Temporarily unfit for sea service or service on shore north of Brisbane or Fremantle	9

Table 21

HONOURS AND AWARDS

Census Form Line 54

Type	Report	Type	Report	Type	Report
VC	1	CMG	26	DCM*	51
VC*	2	CIE	27	CGM	52
GC	3	CVO	28	CGM*	53
GC*	4	CBE	29	GM	54
KG	5	DSO	30	GM*	55
PC	6	DSO*	31	DSM	56
KT	7	MVO	32	DSM*	57
KP	8	OBE	33	MM	58
GCB	9	ISO	34	DFM	59
OM	10	MVO+	35	DFM*	60
GCSI	11	MBE	36	AFM	61
GCMG	12	RRC	37	AFM*	62
GCIE	13	DSC	38	BEM	63
CI	14	DSC*	39	VD	64
GCVO	15	DSC**	40	VRD	65
GBE	16	MC	41	RD	66
CH	17	MC*	42	ED	67
KCB	18	DFC	43	CFM	68
KCSI	19	DFC*	44		
KCMG	20	DFC**	45		
KCIE	21	AFC	46	MID	91
KCVO	22	AFC*	47	QCM	92
KBE	23	ARRC	48	KCM	93
CB	24	AM	49	KSTJ	98
CSI	25	DCM	50	FD	99

APPENDIX B—continued

Table 22

CAMPAIGN STARS AND MEDALS

Census Form Lines 56-58

Award	Report
1939-45 Star	1
1939-45 Star and Clasp	2
Africa Star	3
Africa Star and Clasp	4
Atlantic Star	5
Atlantic Star and Clasp	6
Australian Service Medal	7
Burma Star	8
Burma Star and Clasp	9
Defence Medal	10
France and Germany Star	11
France and Germany Star and Clasp	12
General Service Medal	13
Borneo Clasp to General Service Medal	14
Vietnam Clasp to General Service Medal	15
General Service Medal—1962	16
Italy Star	17
Italy Star and Clasp	18
Korea Medal	19
Naval General Service Medal 1915	20
NGSM—Bomb and Mine Clearance Clasp	21
NGSM—Malaya Clasp	22
NGSM—Minesweeping Clasp	23
NGSM—SE Asia Clasp	24
Pacific Star	25
Pacific Star and Clasp	26
Polar Medal	27
United Nations Medal	28
Vietnam Medal	29
War Medal	30

Table 23

SPECIAL AWARDS AND PRIZES

Census Form Line 59

Award/Prize	Report
Admiral Sir Max Horton Prize	1
Beaufort and Wharton Testimonial	2
Clare D'oyly Memorial Prize	3
Commander Egerton Prize	4
Doctor Common Commemoration Prize	5
Florence Nightingale Medal	6
Gedge Medal and Prize	7
Goodenough Medal	8
Henry Leigh Carlslake Prize	9
Herbert Lott Prize	10

Continued

APPENDIX B—continued

TABLE 23—continued

Award/Prize	Report
Herbert Lott Trust Fund Award	11
Hugh Cheetham Hill Prize	12
Ian MacDonald Memorial	13
Jackson-Everett Prize	14
King's Medal	15
E. E. Mayo Memorial Prize	16
Memorial Sword	17
Newman Memorial Prize	18
New Zealand Naval Board Prize	19
North Persian Forces Memorial Prize	20
Ogilvy Medal	21
Otto Albert Prize	22
Queen's Medal	23
Queen's Gold Medal	24
Queen's Sword	25
Queen's Telescope	26
Rear Admiral Simpson Memorial Prize	27
Robert Sandison Trophy	28
Ronald Megow Memorial Prize	29
Royal Humane Society Medal	30
Shadwell Testimonial Prize	31
Stanhope Medal	32
Superintendent of Diving Trophy	33
Governor General's Award (Apprentices)	34

Table 24

HONORARY DISTINCTIONS AND STAFF COURSES

Census Form Line 60

Course/Distinction	Report
FSC —Naval Command Course, US Naval War College	1
IDC —Imperial Defence College	2
JSSC —Joint Services Staff College	3
PSCA —RAF/RAAF Staff College	4
PSC —RN Staff College	5
PSC (M)—Army Staff College	6
ADC* —Aide de Camp to HM The Queen	21
ADC —Aide de Camp to HE The Gov. Gen.	22
ADC —Hon. Aide de Camp to HE The Gov. Gen.	23
QHS —Hon. Surgeon to HM The Queen	24
QHP —Hon. Physician to HM The Queen	25
QHDS —Hon. Dental Surgeon to HM The Queen	26
QHNS —Hon. Nursing Sister to HM The Queen	27
GGHS —Hon. Surgeon to HE The Gov. Gen.	28
GGHP —Hon. Physician to HE The Gov. Gen.	29
GGHDS—Hon. Dental Surgeon to HE The Gov. Gen.	30
MILSEC—Military Secretary to HE The Gov. Gen.	31

APPENDIX B—continued

Table 25

CHANGE TYPE

Census Form Lines 94-113

Change Type	Report
Appointment to Short Service Commission	A
Branch (Officers only)	B
Category	C
Reduction (Sailors only)	D
Component of Force	F
Grant of Acting Rank (Officers only)	H
Grant of Temporary Rank (Sailors only)	H
Change of List	L
Promotion of Sailor to Officer	M
Change of Title Nomenclature	N
Promotion	P
Reversion	R
Adjusted Seniority	S
Rank Type only	T
Other Services—Title Changes	Y

Table 26

RANK TYPE

Census Form Lines 94-113, 141-146

Rank Type	Report
Substantive .. Leave Blank	
Acting	A/
Provisional	P/
On Probation	B/
Temporary	T/
Honorary	H/
War Service Rank	W/
Provisional Acting	PA/
On Probation Acting	BA/
On Probation Provisional	BP/

Table 27

OFFICERS RANKS

Census Form Lines 94-113

Rank	Report
Admiral of the Fleet	FADM *
Admiral	ADML *
Vice-Admiral	VADM *
Rear Admiral	RADM *
Commodore	CDRE *
Captain	CAPT
Commander	CMDR
Lieutenant-Commander	LCDR
Lieutenant	LEUT
Sub-Lieutenant	SBLT
Acting Sub-Lieutenant	ASLT
Midshipman	MIDN
Cadet Midshipman	CMID *
Senior Chaplain	SCHA **
Chaplain	CHAP **

Continued

APPENDIX B—continued

TABLE 27—continued

Rank	Report
Superintendent	SUPR *
Chief Inspector	CINS *
Inspector	INSP *
Sub-Inspector	SBIN *
Superintendent WRANS	SUPO *
Chief Officer WRANS	CHFO *
1st Officer WRANS	1STO *
2nd Officer WRANS	2NDO *
3rd Officer WRANS	3RDO *
Matron-in-Chief RANNS	MTIC *
Matron RANNS	MTNS *
Superintending Sister RANNS	SUPS *
Senior Sister RANNS	SENS *
Sister RANNS	SISS *

Note—
 ASLT applies only to General List and Reserve List Officers.
 A/SBLT will be used for Special Duties List Acting Sub-Lieutenants.
 A/SBIN will be used for NDP Acting Sub-Inspectors.
 * To be reported in rank only.
 ** To be reported in rank and category only.

Table 28

OFFICERS BRANCH

Census Form Lines 94-113

Branch	Report
Seaman	EX
Engineering	EN
Supply and Secretariat	SU
Instructor	IT
Medical	SG
Dental	DN
Ordnance and Inspection	OI
Band	BD
Wardmaster Medical	WM
Wardmaster Dental	WD
Shipwright	SH
Special	SP
No Branch	Leave Blank

APPENDIX B—continued

Table 29

OFFICERS CATEGORIES
Census Form Lines 94-113

Category	Report
Reserve Officer qualified in Air duties	A
Qualified for Aeronautical Engineering duties	AE
Qualified by the advanced Course in Aeronautical Engineering	AE+
Qualified for Aeronautical Engineering and for Pilot duties	AEP
SD Officer qualified for Air Electrical duties	AL
SD Officer qualified for Air Ordnance duties	AQ
SD Officer qualified for Air Radio duties	AR
Qualified by the long Anti-submarine course	AS
Qualified for Air Traffic Control duties	ATC
Qualified for Air Traffic Control duties and by the Short Aircraft Direction Course	ATCDL
Aircrew Trainee (Observer)	ATO
Aircrew Trainee (Pilot)	ATP
SD Officer qualified for Aviation duties	AV
SD Officer qualified for Boatwain duties	B
General List Officer qualified by the Long Communications course or SD Officer qualified for Communication duties	C
General List Officer qualified by the Advanced Communications course	C+
Officer qualified in Catering Officer duties	CA
Qualified in Clearance Diving	CD
Reserve Officer qualified in Communications	CE
SD Officer qualified in Cookery Officer duties	CK
Chaplain—Church of England	COFE
Qualified by the Long Aircraft Direction and AIO course	D
Qualified by the Advanced Aircraft Direction and AIO course	D+
Qualified by the Short Aircraft Direction course	DL
Officer who has passed the Naval Constructors course	EC
Reserve Officer qualified in EDP duties	EDP
Qualified by the Long Gunnery Course, Part I	G
Qualified by the Long Gunnery Course, Part II	G+
Qualified by the Advanced Gunnery course	G*
SD Officer qualified by the Basic Gunnery SD course	GLG
Qualified for Hydrographic duties	H
Reserve Officer qualified in Intelligence duties	INT
SD Officer qualified for Ship Electrical duties	L
Officer of the Supply and Secretariat branch who has undergone Legal training in Chambers	LC
SD Officer qualified Linguist	LIN
Reserve Officer qualified for Command of Small Ships	MC
Qualified in Mine Warfare and Clearance Diving	MCD
Qualified for Marine Engineering duties	ME
Qualified by the Advanced Course in Marine Engineering	ME+
SD Officer qualified in the Engineering Mechanic branch	MECH
Qualified for Marine Engineering and passed the Naval Constructors course	MEEC
Qualified for Marine Engineering and for Submarine duties	MESM
Qualified for Meteorology duties	MET
Chaplain—Methodist	METH
Reserve Officer who has been trained in or is being employed on Meteorological duties	METR
Engineer Officer qualified for Submarine duties	MSM
Qualified by the Long Navigation and AIO course	N
Qualified by the Advanced Navigation and AIO course	N+
Reserve Officer qualified in Naval Control of Shipping duties	NCS
Qualified by the Advanced Navigation Aircraft Direction and AIO course	ND+
Qualified by the Advanced Direction and AIO course and by the Long Aircraft Direction course	NDD+

Continued . . .

APPENDIX B—continued

TABLE 29—continued

Category	Report
Qualified by the Advanced Navigation and AIO course and by the Long Navigation course	NDN+
Qualified by the Long Navigation and AIO course and for Observer duties	NO
Qualified for Observer duties	O
General List Observer not qualified for full Seaman branch duties	O*
Qualified for Ordnance Engineering duties	OE
Qualified by the Advanced Course in Ordnance Engineering	OE+
Qualified for Ordnance Engineering and for Submarine duties	OESM
Qualified in Observer and Pilot duties	OP
Qualified for Observer and Photographic duties	OPHOT
General List Observer qualified for Photographic duties but not qualified for full Seaman branch duties	OPHOT*
Qualified for Pilot duties	P
Qualified for Pilot and Observer duties	PO
General List Pilot not qualified for full Seaman branch duties	P*
Qualified for Photographic duties	PHOT
SD Officer qualified for Plotting and Radar duties	PR
SD Officer competent to undertake Navigating duties in a destroyer or frigate	PR+
Reserve Officer qualified in Public Relations duties	PREL
Chaplain—Presbyterian	PRES
Qualified for Physical Training duties	PT
Qualified Officer on the Supplementary List	Q
SD Officer qualified for Ship Radio duties	R
Chaplain—Roman Catholic	RC
SD Officer qualified for Regulating duties	REG
SD Officer qualified for Stores Officer duties	S
Qualified for Safety Equipment and Survival duties	SESO
Reserve Officer qualified in Shipping and Transport duties	SHTR
Qualified for Submarine duties	SM
SD Officer qualified for Torpedo duties	T
General List Officer qualified by the Long Torpedo and Anti-submarine course or SD Officer qualified for Torpedo and Anti-submarine duties	TAS
General List Officer qualified by the Advanced Torpedo and Anti-submarine Course	TAS+
General List Officer qualified by the Long Torpedo and Anti-submarine course and in Clearance Diving, or SD Officer qualified for Torpedo and Anti-submarine duties and Clearance Diving	TASCD
General List Officer qualified by the Long Torpedo and Anti-submarine course and for Observer duties, or SD Officer qualified for Torpedo and Anti-submarine duties and for Observer duties	TASO
SD Officer qualified for Writer Officer duties	W
Qualified for Weapon and Electrical Engineering duties	WE
Qualified by the Advanced Course in Weapon and Electrical Engineering	WE+
Engineer Officer of the WE Category not cross-trained in Weapon Engineering	WEL
Engineer Officer of the WE Category not cross-trained in Radio Engineering	WEM
Weapon and Electrical Engineering Officer qualified for Submarine duties	WESM

APPENDIX B—continued

Table 30

COMPONENT OF FORCE
Census Form Lines 94-113

Type	Report
RANR Sailor	A
RANVR Sailor	B
RANR Officer	C
NDP Officer	D
Emergency List Officer	E
RAFR Sailor	F
PNG Division Sailor	G
RAN Emergency Reserve Sailor	H
PNG Division Officer	J
WRAN Fleet Reserve	K
WRAN Officer	L
RANR(S) Officer	M
Nursing Sister	N
Male PNF Officer	O
NDP Sailor	P
Male PNF Sailor	R
RAN Emergency Reserve Officer	S
Retired Officer	T
RANVR Officer	V
WRAN	W
Exchange Officer	X
Loan/Attachment Officer	Y
Loan/Attachment Sailor	Z

Table 31

PUNISHMENT CODE
Census Form Lines 114-126

Punishment	Code
Imprisonment	1
Dismissal	2
Detention	3
Reduction in Rank	4
2nd Class for Conduct	5
Cells	6
Deprived 1st GCB	7
Deprived 2nd GCB	8
Deprived 3rd GCB	9
Deprived 1st and 2nd GCB	10
Deprived 2nd and 3rd GCB	11
Deprived 1st, 2nd and 3rd GCB	12
Deprived LS and GCM (and Clasp if held)	13
Dismissal with Disgrace	14
Life Imprisonment	15
Loss of Seniority	16
Dismissed Ship	17

APPENDIX B—continued

TABLE 31—continued

Punishment	Code
Reprimand	18
Admonition	19
Death	20
Fine	21
<i>Instructions—</i>	
Perform the following arithmetical additions to the Punishment Code if the punishment has been varied as below—	
Suspended	Add 100
Committed after Suspension	Add 200
Remitted after Suspension	Add 300
Remitted after Committal	Add 400

(AS (EDP) 178/1/120)

(Navy Order 446 of 1967)



REGISTRAR.

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ANO's 465-472/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
10th November, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers
in Charge of HMA Naval Establishments, and others
concerned.*

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467	Resignation of Officers.
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468	Ammunition—4.5-in. Shell SAP (AK) Mark 1 CT—Range Table Amendment.
469	Naval Stores (General)—Branding of Diving Equipment.
470	Replenishment at Sea—Securing of Coston Gun Line.
471	Wire—Plastic Coated Aluminium Alloy Guardwires—Damage Through Misuse.
SECTION 7—CANCELLED LIST	
472	Cancellation of Navy Orders.

Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

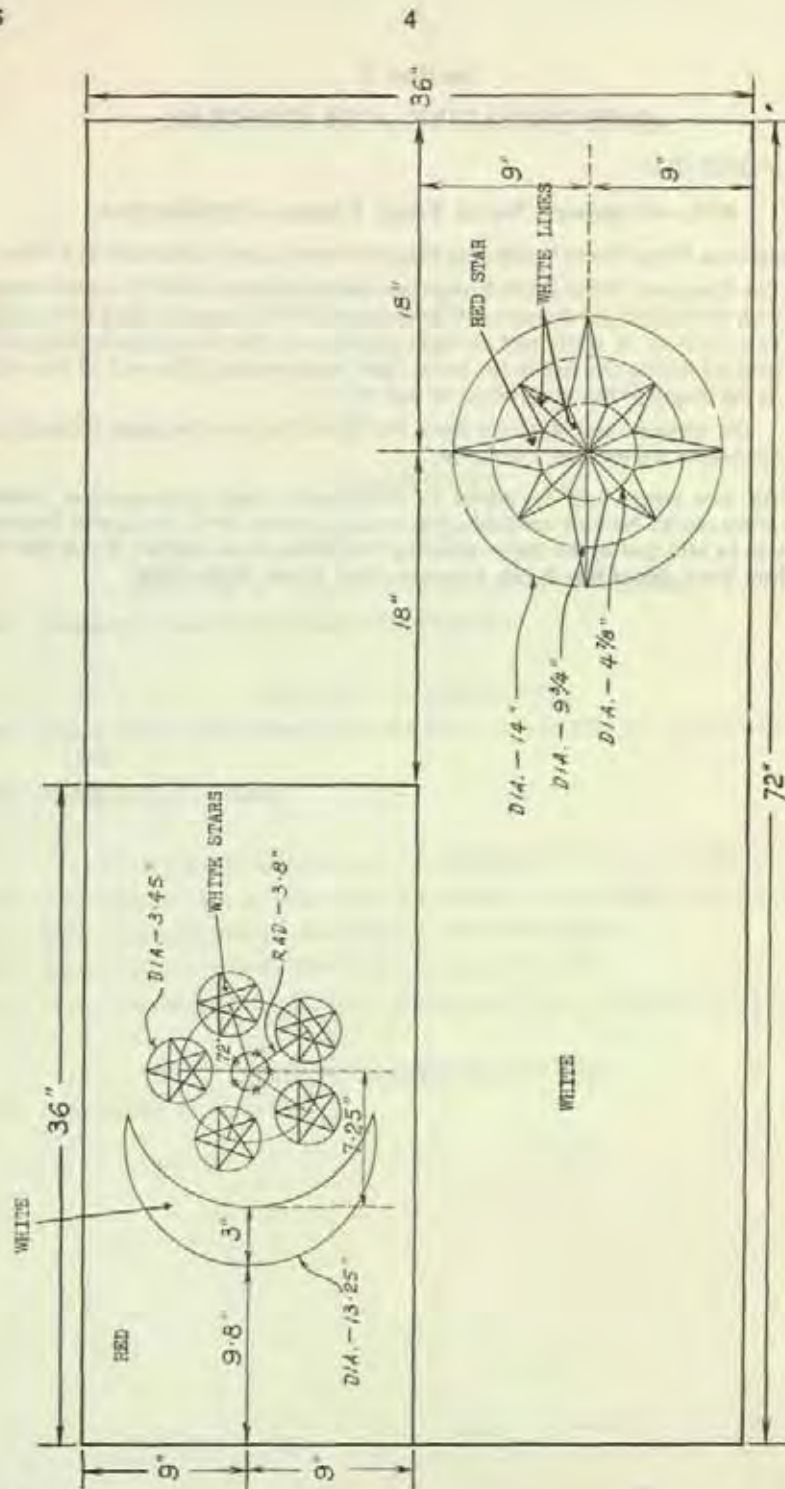
465—Singapore Naval Force Ensign—Introduction

A Singapore Naval Force Ensign has been introduced and is described as follows—

“ The Singapore Naval Force Ensign (see design attached) shall be a white ensign with the top left hand quarter of Red charged with a crescent sided by five stars in a circle all in white and an eight pointed red star with narrow white lines inserted within the star in the lower right hand quarter. The ratio of the width to the length of the ensign shall be one to two.

The crescent and stars are from the State Flag and the eight pointed star represents the mariner's compass.”

2. This new ensign will be issued to complement ships allowances of foreign ensigns when stocks become available. On receipt, stocks of the Singapore National Flag are to be returned to the Superintending Victualling Store Officer, Royal Edward Victualling Yard, Jones Bay Road, Pyrmont, New South Wales 2009.



Section 2 PERSONNEL

UNCLASSIFIED

466—Programme of Professional Tests for Promotion to SD List— January-December, 1968

The programme of professional tests in the RAN to be conducted from Navy Office during the period 1st January to 31st December, 1968, is shown in Paragraph 3 of this order.

2. Applications for these tests are to reach Navy Office one month in advance.

3.	Test	Date of Test
Eng. Sub-Lt. (ME) and (MECH) Wednesday 21st and Thursday 22nd February.
Eng. Sub-Lt. (AE) Thursday 22nd February.
Ship Sub-Lt. Wednesday 28th and Thursday 29th February.
El. Sub-Lt. (L), (R), (AL), (AR) Tuesday 5th and Wednesday 6th March.
Eng. Sub-Lt. (OE) Tuesday 5th and Wednesday 6th March
Ward. Sub-Lt. Tuesday 19th and Wednesday 20th March.
Supply Sub-Lt. (S) and (W) Tuesday 19th and Wednesday 20th November.

4. This order will be reprinted for posting on notice boards.

5. Navy Order 607 of 1966 is hereby cancelled.

(HPB 312/6/5)

(Navy Order 607 of 1966)

RESTRICTED

467—Resignation of Officers

Navy Order 691 of 1965 is to be amended as follows—

Paragraph 8 (b)—

Delete existing sub-paragraph and insert the following in lieu—

“To require payment of a charge for RANC training (\$200 per year for members whose entry date was prior to 1st January, 1968, and \$300 per year for members whose entry date is after 1st January, 1968) where this is not covered by College Regulations.”

(DOA 47/1/29)

(Navy Order 691 of 1965)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

468—Ammunition—4.5-in. Shell SAP (AK) Mark 1 CT—Range Table Amendment

(DCI (RN) 996/1967)

Pending amendments to Range Tables the following corrections for 4.5-in. Shell SAP (AK) Mark 1 CT, fitted Plug Representing Tracer, should be used in place of those given in Section B, Part 1 of the Range Tables—

Range Table No.	Difference from Standard Percentage C			
641 -4.0
581 -2.0
399A -1.0

(DWE 726/251/328)

UNCLASSIFIED

469—Naval Stores (General)—Branding of Diving Equipment

Navy Order 62 of 1966 stated that items of diving equipment were to be branded with the letters RAN and the broad arrow to distinguish them from commercially available items. It has been decided that the letters RAN need not be included in the brand, however, and the items need only be marked with the broad arrow as provided by ABR 4 Article 2804 (5).

2. With regard to the method of branding neoprene items comprising the wet suit, there have been problems hitherto because of the difficulty of attaching a permanent mark to the material. As a result of investigations, the following items have been introduced and are to be demanded from the appropriate Superintending Store Officer, Sydney as required—

NATO Supply Classification	Catalogue Number	Description	Denom.	Acctg. Classification
8010	66-026-4928 ..	Paint Kit, Rubber Marking	KT	C
STATY ..	7510-66-017-5004	Ink, Marker, Felt Tip, Blue, in 1 quart tins	TI	—
STATY ..	7520-66-017-5011	Marker, Fountain Type, Felt Tip	NO	—

3. The method of external branding, using the Paint Kit described above is as follows—

- (a) 8010-66-026-4928 Paint Kit consists of $\frac{1}{2}$ pint of Yellow Marking Paint, $\frac{1}{2}$ pint of associated Primer and $\frac{1}{2}$ pint of Toluol. With the Toluol, first remove any existing markings and clean the surface to be branded.

(b) Brand markings are to be applied to the section of the items indicated at (c) as follows—

- (i) First apply one coat of the Primer.
- (ii) Allowing 12 hours drying time between coats, next apply one or two finishing coats of the Yellow Marking Paint as necessary.

(c) The positioning of external brand markings (broad arrow) is as follows—

- (i) Jacket—top left, below shoulder but above "Spiro Technique" brand.
- (ii) Pants—top right of waist.
- (iii) Hood—front bottom.
- (iv) Gloves—close to edge of gauntlet.
- (v) Boots—close to edge of top.

4. All wet suit items will be branded accordingly before issue by SNSO Sydney in future. Ships and establishments are to arrange for items already in service to be branded as necessary, requirements of 8010-66-026-4928 Paint Kits being demanded from SNSO Sydney as required.

5. It is to be noted that no other marking apart from the authorised brand is to be used externally on diving equipment. The practice of externally marking such equipment, particularly suits, undersuits, fins, etc., by "private systems" such as oversized numerals, nicknames of the diver user, etc., is to cease and any equipment requiring a serial number, i.e., wet suits and dry suits, may be etched in small, inconspicuous internal markings using 7510-66-017-5004 Marking Ink. This should be applied with 7520-66-017-5011 Markers. Requirements of the Marking Ink and Markers are to be demanded from SVSO, Sydney as necessary.

6. Navy Order 62 of 1966 is to be noted with a reference to this order.

(DSAP 512/74/229)

(Navy Order 62 of 1966)

UNCLASSIFIED

470—Replenishment at Sea—Securing of Coston Gun Line

(DCI (RN) 1057/1967)

During abeam replenishment operations quick attachment of gun line and messenger can be made by means of a small metal or alloy plate as shown in the Annex to this order.

2. The messenger is spliced on to the end of the plate and the gun line is attached by tucking it into the three notches of the plate.

3. Trials have shown that this device is simple, practical and marginally quicker than the usual method of bending the gun line on to the messenger. As knots are not used the gun line can be rapidly disconnected and it is not necessary to cut the gun line.

4. Use of this device in darkness is dependent on the experience of the handler, but this should be readily gained.

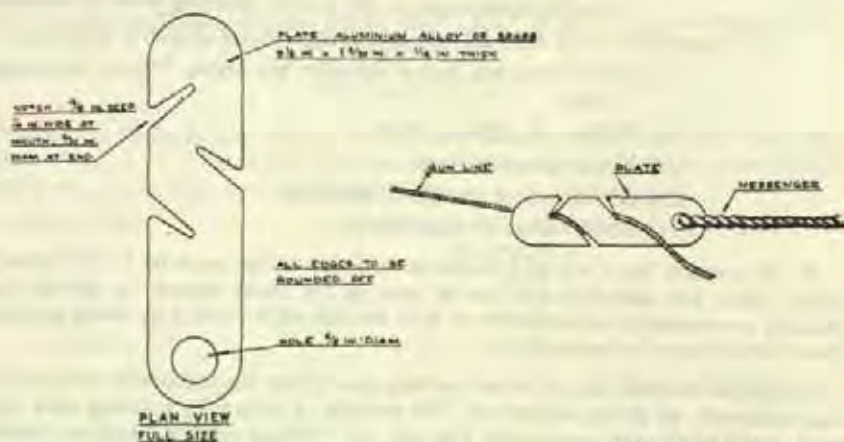
5. When using the smaller gauge RAN or USN nylon gun lines it will be necessary to "double-up" turns in order to avoid slipping.

6. Commanding Officers are to arrange for plates to be made on board.

ANNEX

REPLENISHMENT AT SEA

PLATE FOR ATTACHING GUN LINE TO MESSENGER



(DTWP 400/1/305)

UNCLASSIFIED

471—Wire—Plastic Coated Aluminium Alloy Guardwires—Damage Through Misuse

(DCI (RN) 1498/1965)

Recent experience gained in the use of plastic covered guardwires introduced to reduce maintenance and costs, has shown that wires are being damaged unnecessarily.

- The chief causes of damage, which amount to misuse of the guardwires, are—
 - at alongside berths, electric leads, telephone cables and even steam pipes are led over guardwires;
 - wire hawsers and heaving lines are handled over the guardwires.

3. The attention of all ships officers is drawn to the necessity for care and proper use of guardwires.

4. When ships are alongside in the dockyard, Dockyard Officers are to ensure that all service leads are kept clear of the plastic covered guardwires.

(ACDC 1224/257/17)

Section 7

CANCELLED LIST

UNCLASSIFIED

472—Cancellation of Navy Orders

Navy Orders 568 and 661 of 1965 and 97, 212, 309, 406, 436, 491, 492, 529 and 587 of 1966, may now be cancelled, having been incorporated in ABR 4, Naval Store-keeping Manual by Amendments No. 25, 26 and 27.

(DSAP 465/7/1)

RESTRICTED

ANO's 473-484/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
10th November, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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475	The Naval Health Benefits Society—Annual Report for Year Ended 30th June, 1967.
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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

473—Advances to Personnel—Processing in Ships Cash Account

Examination of records in Navy Office for advances of travelling expenses to RAN personnel discloses that in many instances adjustment of advances after completion of the journey continue to be unduly delayed, and that more effective control is required to ensure prompt adjustment in accordance with Treasury Regulation 77.

2. Existing provisions of Clauses (1) and (3) of Article 271 of the Navy Accounts Manual have been varied as under—

(a) *Clause (1)*—Advance vouchers are to clearly indicate particulars of travel, period of detached duty, and in cases of removals, the expected date of joining the ship to which the member is posted.

(b) *Clause (3)*—Where an advance for travelling or removal expenses is made to a member and the advance will be adjusted elsewhere advice is to be forwarded by memorandum to the Commanding Officer of the ship or establishment to which the member is travelling, giving all relevant details of payment which will be required to allow prompt adjustment of the advance to be made. An acknowledgement of such advice is to be requested and obtained. Copy of the advice of payment is to be attached to the advance payment voucher. The Director of Navy Accounts is to be promptly informed should any difficulty arise in connection with the adjustment of the advance.

3. Above revised procedures are to be adopted forthwith.

4. Article 271 of ABR 5018 should be noted pending issue of amendment sheets.

(DNA 465/59/8)

Section 2

PERSONNEL

UNCLASSIFIED

474—Furlough

As from 26th October, 1966, the conditions under which payment may be made in lieu of furlough have been varied as set out below.

2. A member who, on dishonourable discharge has completed not less than 15 years' qualifying service for furlough purposes may, if so determined by the Naval Board, be granted payment in lieu of the whole or part of his furlough entitlement on discharge. The provisions of the Naval Discipline Act may, however, apply in certain cases to forfeit any such entitlement.

3. A member who is discharged or retired at his own request and the Naval Board is satisfied that his discharge or retirement was justified by domestic or other pressing circumstances, which could not be solved by any alternative method, and who has completed not less than 10 years but less than 15 years qualifying service for furlough purposes, may, if the Board so determines, be granted payment of a sum not exceeding

three-tenths of one month's pay in respect of each year of such service. This provision is only to be used in cases for which there is no possible alternative solution to the member's "domestic or other pressing necessity" other than his leaving the service. It may not be used for resettlement purposes or for employment in a more lucrative civil capacity.

4. Any applications for payment in lieu of furlough after 10 but less than 15 years should be supported by a statement by the member setting out the reasons, in full, which are considered to justify payment. Documentary evidence, such as medical certificates, is also required where the ground for discharge or retirement is ill-health.

5. The scale showing entitlement to payment in lieu of furlough on invaliding, death or reaching retiring age prior to completion of 15 years admissible service has also been revised as follows—

<i>Years of Service</i>	<i>Old Entitlement</i>	<i>New Entitlement</i>
4 but less than 8	2 months	2 months
8	3 months	3 months
9	3 months	3 months
10	3 months	3 months
11	3 months	3 ³ / ₁₀ months
12	4 months	3 ³ / ₁₀ months
13	4 months	3 ⁹ / ₁₀ months
14	4 months	4 ¹ / ₂ months
15	4 ¹ / ₂ months	4 ¹ / ₂ months

but this new scale is only to apply to those who had not completed at least ten years admissible service as at 26th October, 1966.

6. The new provisions cannot be implemented until the necessary amendments have been made to the Naval Financial Regulations, but the effect of the changes will be retrospective to 26th October, 1966. Advice will be signalled when the Regulations have been amended.

7. NPI will be amended in due course.

(HPB 271/1/63)

UNCLASSIFIED

475—The Naval Health Benefits Society—Annual Report for Year Ended 30th June, 1967

The following report, supported by audited financial statements of the operation of the Naval Health Benefits Society for the year ended 30th June, 1967, is published for the information of members and prospective members of the Society.

2. The balance sheet reveals that the overall financial position of the Society remains sound and has strengthened during the year. The net accumulated gain over all schedules, since their inception, has increased from \$15,201 in 1966 to \$25,807 in 1967.

3. The interest from investments was insufficient to meet all administrative expenses (wages being the major expense) and a deficiency of \$7,816 was incurred for the year. This amount was not charged to the General Reserve as in the previous year, but was charged against the Medical and Hospital schedules in proportion to the number of claims paid.

4. A contingent liability of \$26,483 has been shown on the balance sheet to accord with Department of Health requirements. This sum is necessary to cover the Society's financial liability in respect of period of delay between date of Medical or Hospital service and date of presentation to and payment of claim by Society.

5. Two new Hospital and Medical schedules, namely MH 3/4 and MH 3/5, were commenced in May, 1967, making a total of five schedules in operation. Schedule "B" (MH 1/1), however, was to close in August, 1967, and schedules "Y" (MH 2/2) and "Z" (MH 2/3) were frozen to new members. The need for the new schedules has been confirmed by 2,500 members transferred from the old schedules to the new. The number in the new schedules thus already represents more than half of the total membership of the Society and transfers continue to be made.

6. The year has been one of steady growth for the Society. The total membership of the Society at 30th June, 1967, was 4,792, an increase of 504 members for the year. The number of claims assessed during the year was 15,901, an increase of 1,727 over the previous year.

7. The address of the Society is—

Navy Office,
MELBOURNE, VICTORIA. 3004.

8. This order will be reprinted for posting on notice boards.

(Signed) A. B. CALDER,
Commander.
Secretary and Public Officer.

APPENDIX A
NAVAL HEALTH BENEFITS SOCIETY
Balance Sheet as at 30th June, 1967

As at 30.6.66 to Nearest \$	As at 30.6.67 (\$)	As at 30.6.66 to Nearest \$	As at 30.6.67 (\$)
	Members Funds		Current Assets
28,440	General Reserve 28,439.85	15,684	Cash at Bank 18,771.18
24,000	Medical and Hospital Benefits Reserve Fund .. 24,000.00	6,000	Cash on Fixed Deposit 6,000.00
52,440			
	52,439.85	21,684	24,771.18
	Medical and Hospital Benefits Funds—Accumulated Profits—		Refunds due from Department of Health—
8,365	Hospital Schedule "B" Fund MH 1/1 .. 10,105.58	4,199	Medical 9,379.75
1,940	Hospital Schedule "Y" Fund MH 2/2 .. 2,275.81	1,758	Hospital 4,097.90
15,251	Hospital Schedule "Z" Fund MH 2/3 .. 25,638.84		
2,968	Medical Schedule "Z" Fund MH 2/3		13,477.65
	Medical Schedule MH 3/4 937.84		
	Hospital Schedule MH 3/4 1,243.99	40,000	Investments
	Medical Schedule MH 3/5 2,115.31		Commonwealth Bonds (at Cost) 40,000.00
	Hospital Schedule MH 3/5 3,520.31		
	45,837.68		
	Less Accumulated Losses—		
(1,421)	Medical Schedule "B" Fund		
	MH 1/1 1,336.37		
(11,902)	Medical Schedule "Y" Fund		
	MH 2/2 13,948.98		
	Medical Schedule "Z" Fund		
	MH 2/3 4,745.01		
	20,030.36		
15,201	Net Accumulated Profit on all Schedules 25,807.32		
	Miscellaneous Members' Contributions 1.66		
67,641	78,248.83	67,641	78,248.83

Contingent Liability—A contingent liability exists in respect of claims not yet presented to the society. This liability is estimated to be \$26,483 and is calculated on the attached schedule.

Audited and found correct.
(Signed) **GOODE, MORRIS & TONER,**
Chartered Accountants.

APPENDIX B

Summary of Society and Commonwealth Benefits Paid for the Twelve Months Ended 30th June, 1967

	<i>Hospital</i>	<i>Medical</i>	<i>Total</i>
	\$	\$	\$
Benefits paid from Society Funds	69,852.00	64,387.65	134,239.65
Benefits paid on behalf of Commonwealth	25,685.00	58,416.80	84,102.70
Total Benefits Paid	95,537.90	122,804.45	218,342.35
Medical Benefits were paid in respect of the following—			
Consultations	—	—	28,196
Other services	—	—	15,247

APPENDIX C

NAVAL HEALTH BENEFITS SOCIETY
Administration Account for Year Ended 30th June, 1967

<i>Income</i>	<i>Expenditure</i>
	\$
Interest on Investments 2,318.06	Wages 6,817.95
Excess of Expenditure over Income charged against Medical and Hospital Schedules (charged in proportion to number of claims paid in each schedule) 7,816.32	Stationery 1,259.69
	Audit Fees 795.00
	Office Expenses 11.74
	Subscriptions 15.00
	Advertising 48.00
	Postage 1,173.50
	Department of Health—Loss on Claim Overpaid .. 13.50
10,134.38	10,134.38

NAVAL HEALTH BENEFITS SOCIETY

Society Hospital and Medical Benefits Fund Accounts for Year Ended 30th June, 1967

	Schedule " B " MH 1/1			Schedule " Y " MH 2/2			Schedule " Z " MH 2/3			Schedule MH 3/4			Schedule MH 3/5			All Schedules
	Medical	Hospital	Total	Medical	Hospital	Total	Medical	Hospital	Total	Medical	Hospital	Total	Medical	Hospital	Total	
Fund Balance at 1st July, 1966	\$ (1,421.44)	\$ 8,364.81	\$ 6,943.37	\$ (11,901.57)	\$ 1,940.35	\$ (9,961.22)	\$ 2,968.17	\$ 15,250.65	\$ 18,218.82	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 15,200.97
Add Contributions Received During Year	3,078.22	3,090.43	6,168.65	12,560.04	10,267.20	22,827.24	45,919.66	68,869.06	114,788.72	964.06	1,446.05	2,410.11	2,189.21	4,378.39	6,567.60	152,762.32
Less Benefits Paid During Year	1,656.78	11,455.24	13,112.02	658.47	12,207.55	12,866.02	48,887.83	84,119.71	133,007.54	964.06	1,446.05	2,410.11	2,189.21	4,378.39	6,567.60	167,963.29
	2,619.05	1,306.40	3,925.45	13,149.88	9,735.10	22,884.98	48,635.32	57,759.70	106,395.02	21.30	199.60	220.90	62.10	851.20	913.30	134,339.65
Fund Surplus	(962.27)	10,148.84	9,186.57	(12,491.41)	2,472.45	(10,018.96)	252.51	26,360.01	26,612.52	942.76	1,246.45	2,189.21	2,127.11	3,527.19	5,654.30	33,623.64
Less Administration Expenses 1966-67	374.10	43.26	417.36	1,457.57	196.64	1,654.21	4,997.52	721.17	5,718.69	4.92	2.46	7.38	11.80	6.88	18.68	7,816.32
Net Surplus at 30th June, 1967	(1,336.37)	10,105.58	8,769.21	(13,948.98)	2,275.81	(11,673.17)	(4,745.01)	25,638.84	20,893.83	937.84	1,243.99	2,181.83	2,115.31	3,520.31	5,635.62	25,807.32

Notes—(a) Net accrued surplus all Schedules at 30th June, 1967 \$ 25,807.32
 (b) Net accrued surplus all Schedules at 30th June, 1966 \$ 15,200.97
 (c) Net gain for year \$ 10,606.35
 (d) Figures in brackets represent fund deficiencies.

Section 3

OPERATIONAL AND TRAINING

RESTRICTED

476—Salvage of Ditched Helicopters

Emergency flotation gear, if fitted, provides a helicopter with additional buoyancy on ditching, giving the crew maximum escape facilities and enables salvage operations to be carried out. In the case of the Wessex, the equipment includes a permanently inflated float secured by ropes within the tail cone, and an inflatable float unit installed on each main wheel axle. The main wheel floats are automatically inflated on ditching by cool gas generators, one being mounted in-board of each main wheel axle. The generators are activated by a salt water sensitive submersion actuator on each unit when either becomes immersed on ditching. Other helicopters may have similar systems which are designed to provide the helicopter with positive buoyancy.

Function of Flotation Equipment

2. The primary function of the Emergency Flotation equipment is to keep the helicopter afloat long enough for the crew to escape. The next most important function is to permit salvage of the aircraft so that accident investigation can determine the cause of the failure which resulted in the aircraft ditching. It is stressed that, once the aircrew have been saved, salvage of the aircraft should not be attempted if any serious risk to personnel is likely to result and except for the rescue of injured occupants, no person should enter the aircraft until it is adequately supported. If the aircraft can be recovered and repaired or partially salvaged, this is a bonus, and if salvage is attempted, little consideration need be given to causing damage as in most cases this will be minor structural damage which must be accepted in the interest of recovering the aircraft for accident investigation.

3. The airframe is manufactured primarily of aluminium and magnesium alloys. When immersed in sea water some airframe components will be corroded at a very rapid rate. If the aircraft were to be repaired, it would be necessary to remove it from the water and take necessary anti-corrosion measures within two hours of entry.

4. Once in the water, and if the flotation bags have inflated correctly, the Wessex will float with the cabin floor about 12 inches below water level. Experience both in the RAN and RN has indicated that the aircraft will remain upright in heavy sea states as long as the three bags remain inflated.

Helicopter Recovery

5. In order to lift a helicopter completely from the water it would be necessary to have a high capacity crane. It is also necessary that special lifting equipment and a certain amount of expert knowledge is available. Recovery could only be achieved if an aircraft carrier or large ship were available or if the aircraft could be towed to a crane with sufficient lifting capacity.

6. Where it is possible to lift the aircraft onto a flight deck the following points are relevant—

- (a) The rotor blades should not be folded while the aircraft is in the water. This action takes time and may shift the centre of gravity too far aft. It is better to concentrate on getting the aircraft out of the water, accepting any damage to the blades which may result.
- (b) As the aircraft is raised from the water it will contain water which will run into the tail pylon and thus upset the equilibrium of the aircraft.

- (c) The flotation bags are made of reinforced rubberised fabric. If punctured, the aircraft will roll over and make recovery much more difficult. With sea motion the bags will not last indefinitely and the possibility of a bag bursting or coming adrift should be borne in mind during salvage operations.
- (d) Great care should be taken not to puncture a bag by ramming with a sea-boat or a sharp object during the salvage operation.
- (e) In the case of the Wessex, experience has shown that if the tail bag bursts, the aircraft will become fully immersed in a near inverted attitude with the nose of the aircraft approximately 45° past the vertical. Under these circumstances, only the wheel bags will protrude above the surface.
- (f) If one of the Wessex wheel bags bursts or becomes detached, the aircraft will roll over past the horizontal and become fully immersed with the possible exception of the tail rotor. If more than one bag bursts the aircraft will sink.

Helicopter Salvage

7. The helicopter may ditch in a position or at a time when no ship or crane is available to salvage the aircraft. Under these circumstances the first consideration should be the recovery of the crew. When this has been effected the next consideration should be the best means of keeping the aircraft afloat so that the cause of the ditching can be investigated and if possible some components salvaged.

8. The best course of action will depend on circumstances such as distance from shore, availability of a crane, sea state, weather, time of day, operational situation, etc., but the following action, in order of priority, should be taken—

- (a) Provide additional buoyancy to ensure aircraft does not sink. Do not attempt to fold the rotor blades as this action will result in wasting time and upsetting the balance (trim) of the aircraft. In any case, special tools are required which would not normally be available.
- (b) Seek the assistance of an aviation specialist and the assistance of a ship fitted with a suitable crane and slinging equipment. When within help range, NAS Nowra can provide assistance and slinging equipment.
- (c) Having carried out (a), and if no assistance can be provided, two alternatives are available. The aircraft can either be secured alongside by suitable aircraft strong points, or towed ashore.

9. Whatever action is taken the protracted immersion in sea water will most probably result in the aircraft being a total loss. Maximum consideration should therefore be given to salvaging components for accident investigation purposes. Structural damage to the airframe caused by the salvage operation must be accepted.

Additional Buoyancy

10. Additional buoyancy can be provided by inserting buoyant items inside the cockpit and cabin. If inflatable liferafts are used, they should be inserted prior to inflation and used in sufficient quantity to make them semi-rigid inside the aircraft structure. If the aircraft is inverted following the loss of one bag, it may be too late to insert items inside the cabin. Under these circumstances attempts should be made to secure the aircraft alongside (see Paragraph 12).

Towing

11. Under suitable conditions, when a recovery cannot be effected, it may be possible to tow the aircraft to a shore crane, or to a place where it can be beached. If such an attempt is made the best methods are—

- (a) Tail first from the tail wheel structure.
- (b) Nose first from a strop passed under the aircraft through both main oleo or cross-tube structures.
- (c) If the aircraft is inverted a tow would probably be unsuccessful. The best course of action under these circumstances would be to attempt to secure the aircraft alongside (see Paragraph 12).

Note—Speed of tow must be restricted as a strong possibility of bursting flotation bags exists.

Securing the Helicopter Alongside

12. The practicability of securing a ditched helicopter alongside a ship is open to dispute as it has not yet been attempted. However, it is considered that it would be possible to salvage essential evidence for accident investigation by attempting this course of action. Obviously the airframe would suffer considerable damage during the evolution, and the ship's side may lose some paint but under suitable sea conditions it is considered that the scheme would be feasible.

13. The best means of attaching the helicopter to a ship is by a wire strop placed around the rotor head. Once alongside, the helicopter should be lifted by leading a strong wire rope from the strop to the most powerful winch available. Under most circumstances the best area would be alongside the fore-castle where the capstan could be used. Heeling the ship slightly may assist this evolution.

14. It would obviously not be possible to lift the helicopter clear of the water. The aim should be to hoist it high enough in the water to prevent excessive buffeting, and to attach additional securing lines to suitable strong points on the aircraft.

15. The best points for securing the aircraft alongside are—

- (a) Rotor head.
- (b) Main wheel structure.
- (c) Through engine structure.
- (d) Tail wheel.
- (e) Through the cabin.
- (f) Tail rotor shaft.

Once secured and raised as high as possible, the ship would proceed at slow speed to the most suitable place for landing the helicopter.

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

477—Ammunition—Propellant—Landing—Destruction—Report

Propellant of the following lots is due for withdrawal from service, having reached the age limit. Cartridges 40/60 have been withdrawn from service due to early bursts—Category DD dangerous if used.

Propellant Lot Affected	Type	Nature of Ammunition, Etc., Which May be Involved
MEC 132 ..	.. SC 103 ..	.. QF 4-in. Marks 16* and 21
MEM 144 ..	.. FNHP 022 ..	.. QF 40/60
MEM 168 ..	.. FNHP 022 ..	.. QF 40/60
MEM 169 ..	.. FNHP 022 ..	.. QF 40/60
MEM 170 ..	.. FNHP 022 ..	.. QF 40/60

2. Action to be taken by HMA ships and establishments, proof ranges, etc. Return to the nearest Naval Armament Depot as early as practicable. If unable to comply within the three months from the date of this order report specially to DAS for instructions. NM and ER BR 862, Article 1126, refers.

3. Action to be taken by RAN armament depots Declare for disposal. Propellant Lists are to be amended.

4. ACNB 67F dated 3rd August, 1967, is hereby cancelled.

(DAS 729/51/64)

UNCLASSIFIED

478—Canned Water—Serviceable Life

The arbitrary limitation on the shelf life of canned water has been suspended.

2. In future canned water contained in survival packs is to be replaced only when its condition justifies such action.

3. Stocks are to be inspected at regular intervals, and cans in which any of the following conditions are present are to be surveyed on Form AD 3004—

Denting—If the can has a dent which would appreciably reduce the head space or materially weaken the seam (i.e., a dent within $\frac{1}{4}$ -in. of the side seam).

Loss of Vacuum—If the "click" test indicates loss of vacuum. For the purpose of this test, the can should be held in one hand and the rim struck smartly with the palm of the other. A sharp click indicates that the necessary vacuum has been maintained.

Rusting—If the external surface of the can shows any sign of rust or corrosion.

4. ABR 93, Appendix 19, will be amended.

5. Navy Order 23 of 1966 is hereby cancelled.

(D of V 912/109/19)

(Navy Order 23 of 1966)

UNCLASSIFIED

479—Compasses—Gyro—Patterns 1005, 5005 and 5035 (N)—Ships with 440-volt, 3-phase, 60 c/s Main Supply—Modification No. 1 to Starter AP 5103

(DCI (RN) 518/1967)

The original design of the Starter AP 5103 incorporated a relay having one pair of normally closed contacts for initiating an alarm and indication circuit (BR 8, Chapter 10, Page 59, refers). This facility is no longer a requirement and the relay with its associated wiring should be removed by ships staff.

2. On completion of this alteration, a modification plate (NATO Catalogue No. 9905-99-943-2324) if not already existing, should be affixed to the cover and this Modification No. 1 recorded.

(ACMD 519/53/748)

UNCLASSIFIED

480—DDGs, Daring Class Destroyers and Type 12 Destroyer Escorts—Precautions to be Taken When Handling Main and Auxiliary Superheated Steam Piping

The main and auxiliary superheated steam ranges of DDG's, Daring Class Destroyers and Type 12 Destroyer Escorts are manufactured from carbon and chrome molybdenum alloy steels.

2. The special steels require particular care in handling because of the high stresses they have to withstand and because of their susceptibility to intergranular penetration by non-ferrous metals.

3. Every precaution must therefore be taken when working on, or in the vicinity of, these steam ranges, e.g., when disconnecting steam pipes to auxiliaries, boiler mountings, etc., to avoid impact or hammer blows likely to cause local damage. In addition, these alloy pipes must not come into contact with copper, lead, tin, zinc, aluminium, or their compounds, or lead base paints. A hammer previously used in contact with any of these metals could, if used on the main or auxiliary steam ranges, start intergranular penetration which could lead to failure. It is most important, therefore, that tools used for work on the superheated steam ranges should be either new or used only for work on steel.

4. Should it be necessary to remove lengths of superheated steam piping to ship or dockyard workshops for work to be carried out on them, the area in which the work is to take place is to be thoroughly clean and free from the non-ferrous metals and their compounds quoted above, and segregated from other work.

5. (a) Welding or bending of alloy pipes requires special techniques and is to be undertaken only by Dockyard Authorities in Daring Class and Type 12 Destroyer Escorts.

Item No.	Catalogue No.	Description	Allowances						
			DERWENT PARRAMATTA STUART YARRA	SWAN TORRENS	VAMPIRE VENDETTA DUCHESS	PERTH HOBART BRISBANE	MELBOURNE	KUTTABUL	CERBERUS
16	8951	Filter Glass 48-mm. × 2 Panchromatic ..	1	1	1	1	1	1	—
17	8980	Gearbox, with Built-in Electro Magnetic Counter C/W Stowage Box	1	1	1	1	1	2	1
18	8981	Motor 24-V. DC Governed for 10 Pictures per Second C/W Stowage Box	1	1	1	1	1	2	1
19	8982	Motor 24-V. DC Governed for 25 Pictures per Second C/W Stowage Box	1	1	1	—	—	2	—
20	8985	Support for Lens Pattern 8854 C/W Adaptor Base Plate	1	—	1	1	—	2	1
21	8986	Support for Lens Pattern 8855 C/W Adaptor Base Plate	—	—	1	—	—	1	1
22	8991	Camera Body Cameflex 16/35-mm. C/W 16-mm. Gate Assy.	1	—	1	1	1	1	1
23	8998	Evaluator Cine Theodolite for Assessing Director Aim Recording Film	—	—	—	—	1	2	1
24	8999	Cover, Waterproof for Camera	—	—	—	—	—	1	1
25	162005	Unit Director, Camera Control C/W Case ..	1	1	1	1	1	3	1
26	162006	Mounting Camera Adj.	1	1	1	1	—	1	1
27	162032	Harness Cable for Mark 6, 6* and 6M Director	—	—	1 (A)	—	—	—	1
28	162034	Harness Cable for MRS 3	1	—	1 (B)	—	—	—	1
29	162035	Lens 36-in. F/11 C/W Transit Case ..	1	—	—	1	—	1	—
30	162036	Hood for Lens Pattern 162035	1	—	—	1	—	1	—
31	162037	Filter Mounted Minus Ultra-violet, for Lens Pattern 162035	1	—	—	1	—	1	—
32	162038	Filter Mounted Yellow X2 for 162035 ..	1	—	—	1	—	1	—
33	162039	Filter Mounted Red X4 for 162035 ..	1	—	—	1	—	1	—
34	162040	Bracket for Use with Mark 6 and 6* Directors	—	—	1 (A)	—	—	—	1
35	162041	Support for Lens 162035	1	—	—	1	—	1	—
36	162042	Cover Waterproof for 162035	1	—	—	1	—	1	—
37	162123	Sling, Neck for Use with Camera Bodies Pattern 8840-8991	1	1	1	1	1	2	1
38	162192	Test Set Electrical C/W Test Cable Harness ..	—	—	—	—	1	1	—
39	162193	Outfit Cameflex Torque Test	—	—	—	—	1	1	—
40	162194	Camera Torque Unit	—	—	—	—	1	1	—
41	162195	Magazine Take-up Torque Unit	—	—	—	—	1	1	—
42	162196	Magazine Take-off Torque Unit	—	—	—	—	1	1	—
43	162275	Case Stowage and Transit	1	1	1	1	1	2	1
44	162481	Exposure Meter, Weston	1	1	1	1	1	2	1
45	L24434	Millers Fluid Action Tripod Head	1	1	1	—	1	1	—
46	L11777	Base for Millers Fluid Action Tripod Head GI Drawing WD 0334	1	1	1	1	1	1	—

Notes—(A) HMAS VAMPIRE and VENDETTA. (B) HMAS DUCHESS.

(DSAP 737/251/5)

UNCLASSIFIED

482—Electronic Warfare—Equipment Type AN/SLR-2—Fitted in HMA Ships—Painting of Radomes

Navy Order 152 of 1966 is to be amended as follows—

Paragraph 3 (e)—

Amend "EN40 Enamel, Epoxy, light grey" to read "EN39 Enamel, Epoxy, black".

(ACDC 400/2/492)

(Navy Order 152 of 1966)

UNCLASSIFIED

483—Propellers and Tailshafts—Base Spares—Annual Returns

Statements are to be forwarded annually to Director of Machinery and Spares and Superintending Machinery Spares Officer, Sydney, showing the following particulars of propellers and tailshafts held as spares as at 31st December—

Propellers—Number held and whether right hand or left hand, class of ship for which suitable, pitch, diameter and surface area. Condition and details of repairs necessary, if other than serviceable.

Tailshafts—Number held, class of ship for which suitable, screw thread, right or left hand. Condition and details of repairs necessary, if other than serviceable.

(DMS 1115/51/93)

UNCLASSIFIED

484—Stores General (Group Class 0257)—Non-ferrous Fastenings—Change of Stock Numbers

The Stock Numbers of the undermentioned items have been changed as follows—

OLD IDENTIFICATION NUMBER			NEW IDENTIFICATION NUMBER		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
0257	L52300	Rivet, Blind	5330	66-026-5128	
0257	L52301	Rivet, Blind	5330	66-026-5129	
0257	L52302	Rivet, Blind	5330	66-026-5132	
0257	L52303	Rivet, Blind	5330	66-026-5130	
0257	L52304	Rivet, Blind	5330	66-026-5131	
0257	L52305	Rivet, Blind	5330	66-026-5133	
0257	L52306	Rivet, Blind	5330	66-026-5125	
0257	L52307	Rivet, Blind	5330	66-026-5099	
0257	L52308	Rivet, Blind	5330	66-026-5136	
0257	L52310	Rivet, Blind	5330	66-026-5137	

OLD
IDENTIFICATION
NUMBER

Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number
0257	L52311	Rivet, Blind	5330	66-026-5123
0257	L52312	Rivet, Blind	5330	66-026-5124
0257	L52313	Rivet, Blind	5330	66-026-5096
0257	L52314	Rivet, Blind	5330	66-026-5097
0257	L52324	Rivet, Blind	5330	66-026-5098
0257	L52325	Rivet, Blind	5330	66-026-5134
0257	L52326	Rivet, Blind	5330	66-026-5126
0257	L52327	Rivet, Blind	5330	66-026-5135
0257	L52309	Rivet, Blind	5330	66-026-5127

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 506/51/364)

RESTRICTED

UNCLASSIFIED

Account Number	Description	Class	Amount	Balance
1000-100-00	Bank of America	1000	1000.00	1000.00
1000-100-01	Bank of America	1000	1000.00	1000.00
1000-100-02	Bank of America	1000	1000.00	1000.00
1000-100-03	Bank of America	1000	1000.00	1000.00
1000-100-04	Bank of America	1000	1000.00	1000.00
1000-100-05	Bank of America	1000	1000.00	1000.00
1000-100-06	Bank of America	1000	1000.00	1000.00
1000-100-07	Bank of America	1000	1000.00	1000.00
1000-100-08	Bank of America	1000	1000.00	1000.00
1000-100-09	Bank of America	1000	1000.00	1000.00
1000-100-10	Bank of America	1000	1000.00	1000.00

1000-100-11 and 1000-100-12—These accounts are closed accounts. The balance of 1000.00 is transferred to 1000-100-13. The balance of 1000.00 is transferred to 1000-100-14. The balance of 1000.00 is transferred to 1000-100-15. The balance of 1000.00 is transferred to 1000-100-16. The balance of 1000.00 is transferred to 1000-100-17. The balance of 1000.00 is transferred to 1000-100-18. The balance of 1000.00 is transferred to 1000-100-19. The balance of 1000.00 is transferred to 1000-100-20.

UNCLASSIFIED

1000-100-21—Bank of America Class 1000—New Jersey & Virginia—Change of Bank Branches

Class	Account	Description	Class	Amount	Balance
1000	1000-100-21	Bank of America	1000	1000.00	1000.00
1000	1000-100-22	Bank of America	1000	1000.00	1000.00
1000	1000-100-23	Bank of America	1000	1000.00	1000.00
1000	1000-100-24	Bank of America	1000	1000.00	1000.00
1000	1000-100-25	Bank of America	1000	1000.00	1000.00
1000	1000-100-26	Bank of America	1000	1000.00	1000.00
1000	1000-100-27	Bank of America	1000	1000.00	1000.00
1000	1000-100-28	Bank of America	1000	1000.00	1000.00
1000	1000-100-29	Bank of America	1000	1000.00	1000.00
1000	1000-100-30	Bank of America	1000	1000.00	1000.00

RESTRICTED

RESTRICTED

ANO's 485-492/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
20th November, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

A handwritten signature in cursive script, appearing to read "J. Mandau".

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

14535/67

RESTRICTED

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SECTION 3—OPERATIONAL AND TRAINING	
487	Sailors Course Programme—1967.
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488	Launchers, Rocket—2-in. Rocket Flare Launcher Mark 5—Firing Contacts.
489	Medical and Dental Stores—Returns to Army Base Medical Store Depots—Discrepancies.
490	Naval Stores (General)—Introductions—Group Class 6260—Catalogue No. 66-025-9362—Floodlight—Air Turbo—Atlas Copco Type FW 15.
491	Stores General—Accounting—Use of Unit Identification (Source) Code in Stores Documentation.
492	Supply Division, Sydney—Superintending Armament Supply Officer.

Section 2 PERSONNEL

UNCLASSIFIED

485—EDP Personal Numbers for Members

Navy Order 653 of 1965 is to be amended as follows—

Paragraph 4 (a)—

delete existing paragraph and *insert* the following in lieu—

(a) PNF

- O—Male Officer.
- L—WRANS Officer.
- N—Nursing Sister.
- W—Wran.
- X—Exchange Officer.
- Y—Loan and Attachment Officer.
- Z—Loan, Exchange and Attachment Sailor.
- D—NDP Officer.
- J—PNG Division Officer.
- G—PNG Division Sailor.
- P—NDP Sailor.

(HPB 303/1/34)

(Navy Order 653 of 1965)

UNCLASSIFIED

486—RAN Central Canteens Fund—Report for Year Ended 31st July, 1967

Financial statements covering the operations of the RAN Central Canteens Fund for the year ended 31st July, 1967, are appended to this order for general information.

2. The Central Canteens Fund derives its income from a levy of 3½ per cent on all sales in all Service System Canteens, and from interest received from the investment of funds.

3. The fund was established within the authority provided by Navy (Canteens) Regulations under the Naval Defence Act. The Naval Board controls the activities of all Service System Canteens and imposes a levy on sales. The Central Canteens Board is responsible to the Naval Board for Administration of the Central Canteens Fund.

4. The fund exists for the purpose of providing for the welfare and entertainment of Naval personnel. In particular, its resources are devoted towards—

- (a) the provision of amenities which will benefit Naval personnel generally, and which it would be inappropriate for an individual ship or establishment to provide;
- (b) assistance in providing desirable amenities for the benefit of individual ships and establishments which cannot be provided in full from their own resources;
- (c) contributing the Navy share to funds for the benefit of Service or ex-Service personnel generally.

5. The RAN Central Canteens Committee, which includes representatives from all areas and commands, is responsible for making recommendations to the Central Canteens Board in connection with major items of expenditure.

6. The major continuing commitments of the fund are—

(a) An annual grant of 1 per cent of total canteen sales to the RAN Relief Trust Fund. The majority of money in this fund is lent as interest free housing and furniture loans to members of the RAN. The grant for this year was \$30,464.

(b) A subsidy to Navy News which amounted to \$9,770 for this year.

(c) An annual transfer of funds to the Long Range Project Reserve (Randwick). The amount transferred annually has been increased this year to \$20,000 and the total in this Reserve Fund now stands at \$80,000. This money will be used to provide clubrooms and motel facilities when playing fields are constructed at Randwick for the RAN. Work on the construction of playing fields commenced during 1967.

7. Other major grants made during the year were—

(a) \$6,000 to HMAS TARANGAU towards cost of various welfare items.

(b) \$5,211 to establish the Williamstown Fleet Club.

(c) \$10,000 towards the cost of building Club Cerberus.

(d) \$1,500 towards cost of building HMAS CERBERUS Pre-School Centre.

(e) \$2,500 towards cost of building a swimming pool at HMS TERROR.

8. The total of cash lent to canteens, etc., during the year increased by \$2,195 to the sum of \$199,303.

9. Total canteen sales rose by 9 per cent from \$2,986,721 to \$3,246,430.

10. Profits paid into ships welfare funds during the year are estimated to exceed \$110,000.

11. This order will be reprinted for posting on Notice Boards.

Appendix A
RAN CENTRAL CANTEENS FUND
Balance Sheet as at 31st July 1967

As at 31.7.66 (to Nearest \$)	Liabilities	As at 31.7.66 (to Nearest \$)	Assets
212,672	Accumulated Funds as at 31st July, 1966 .. 250,881.42	11,092	Current Assets—
48,209	Add Surplus for Year .. 39,342.27	—	Cash at Bank .. 27,953.42
260,881	Less Transfer to Long Range Project Reserve .. 290,223.69	23,000	Cash in Hand .. 30.33
10,000	Long Range Project Reserve .. 20,000.00	46	Fixed Deposit .. 23,000.00
250,881	Long Range Project Reserve .. 270,223.69	34,138	Balance Recreational .. 359.11
60,000	Long Range Project Reserve .. 80,000.00	197,108	Film Account ..
310,881	350,223.69	79,486	Loans to Canteens, etc. .. 51,342.86
		—	Investments—
		—	Commonwealth Bonds (at Cost) .. 199,303.78
		—	Fixed Assets—
		—	Office Equipment (at Cost) .. 165.00
		149	Less Provision for De- preciation .. 49.50
		310,881	115.50
		310,881	350,223.69

We certify that we have audited the books and accounts of the RAN Central Canteens Fund for the year ended 31st July, 1967, and in our opinion the Revenue Account correctly sets forth the transactions for the period under review and the Balance Sheet is properly drawn up and is in accordance with the books. We have received all the information and explanations that we have required.

GOODE, MORRIS and TONER
Chartered Accountants

APPENDIX B
RAN CENTRAL CANTEENS FUND
Revenue Account for Year Ended 31st July 1967

Year Ended 31.7.66 (to Nearest \$)	Income	Year Ended 31.7.66 (to Nearest \$)	Expenditure
99,557	\$	30	\$ 33,000
4,469	Levy on Sales in Service System Can- teens including Chief Petty Officers and Petty Officers Canteens		Depreciation of Office Equipment
16	Interest on Investments		Sundry Expenses— Foreign Exchange Transfer
172	Interest on RAN Recreational Film Account		Fee
2	Capital Gain on Treasury Bonds	—	News Insert on Central Canteens Fund
	Donations Received	537	Stationery
		53,483	Grants (as per Schedule)
		70	Audit Fees
		41	Loss on Realisation of Adding Machine Freight on Films
		1,846	Surplus—being Excess of Income over Expenditure for Year
		48,209	
104,216	113,337.84	104,216	113,337.84

APPENDIX C
RAN CENTRAL CANTEENS FUND

Schedule of Grants Made During Year Ended 31st July 1967

	\$	\$
Welfare		
Navy News	9,770.68	
Airmailing Newspapers to ships in the Far East	443.67	
RAN Relief Trust Fund	30,464.79	
White Ensign Club, Melbourne	1,200.00	
Williamstown Fleet Club	5,211.53	
HMAS TARANGAU	6,000.00	
RAAF Welfare Trust Fund	14.66	
HMAS HARMAN	250.00	
Club Cerberus	10,000.00	
HMAS CERBERUS Pre-School Centre	1,500.00	
	<u>64,855.33</u>	
Sport		
HMAS MELVILLE	750.00	
RANC Golf Club	240.00	
HMS TERROR	2,500.00	
HMAS CERBERUS	563.00	
HMAS HARMAN	37.18	
Combined Services Rugby	100.00	
HMAS LEEUWIN	250.00	
	<u>4,440.18</u>	
Entertainment		
Rental Southern Cross Cinema	2.00	
HMAS LEEUWIN C and PO's Mess	158.00	
HMAS LONSDALE C and PO's Mess	119.64	
HMAS LONSDALE Junior Sailors	134.08	
HMAS BOONAROO	972.00	
HMAS PALUMA	232.00	
	<u>1,617.72</u>	
		70,913.23
Less Refund HMAS CRESWELL (Being donations received towards Commonwealth Games participation) of Able Seaman MAGUIRE	<u>300.00</u>	<u>300.00</u>
		<u>70,613.23</u>

APPENDIX D

RAN CENTRAL CANTEENS FUND
Schedule of Loans Outstanding at 31st July, 1967

	\$
HMAS HOBART Canteen	6,000.00
HMAS MORESBY Canteen	4,000.00
RAN Gliding Association	1,500.00
HMAS PERTH Canteen	3,177.00
HMAS PENGUIN CPOs Canteen	1,000.00
HMAS OXLEY Canteen	1,000.00
HMAS QUEENBOROUGH Canteen	800.00
Club Cerberus	13,500.00
HMAS CERBERUS Pre-School Centre	1,500.00
HMAS BRISBANE Canteen	1,500.00
HMAS WATERHEN Canteen	300.00
HMAS HARMAN CPOs Canteen	98.50
HMAS HARMAN POs Canteen	98.50
HMAS RUSHCUTTER Junior Sailors Canteen	300.00
HMAS MORETON CPO/POs Canteen	200.00
HMAS NIRIMBA Wardroom Mess	1,000.00
HMAS LEEUWIN Ships Fund	2,000.00
HMAS YARRA Canteen	3,000.00
White Ensign Club, Melbourne	10,000.00
HMAS PLATYPUS Canteen	2,000.00
Australian Services Canteens Organisation	100,000.00
HMAS KUTTABUL Canteen	36,001.22
RAN Ski Club	10,328.56
	199,303.78

(DFSD 212/1/8)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

487—Sailors Course Programme—1967

Navy Order 393 of 1967 is to be amended as follows—

Appendix—

- (a) Recruits—
amend 910300 to read 910730
- (b) Electrical and Note—
amend 914460 to read 914690.

(c) Medical and Dental—

exchange positions of 918240 and 918250 to show 918240 against CERBERUS and 918250 against PENGUIN.

(d) WRANS—

(i) *amend 974701 to read 947710.*

(ii) *delete existing details for 907510 and insert the following in lieu—*

EDP No.	Course for Promotion to	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min/Max Nos.
947720	OTC	CERBERUS	10	—	23.1.67 7.8.67	3-8
907510	NBCD and First Aid	CERBERUS	1½	—	On completion of 947720	3-8

(DMT 311/201/247)

(Navy Order 393 of 1967)

Section 4

EQUIPMENT, STORES AND SERVICING

RESTRICTED

488—Launchers, Rocket—2-in. Rocket Flare Launcher Mark 5—
Firing Contacts

(DCI (RN) 429/1967)

MOD (Navy) has experienced difficulty in some cases when inserting service rockets in the 2-in Mark 5 Rocket Flare Launcher, due to fouling of rocket contacts with the launcher contact plungers.

2. A modification will be introduced covering RADHAZ protection for the launcher firing circuits; the modification kit provided will include new launcher contact plungers and detailed procedure for setting up the contacts to obtain correct positioning.

3. Prior to the introduction of the modification referred to in Paragraph 2, where difficulties are experienced in inserting rockets, the chamfer on the launcher firing and earthing contact points should be increased up to 45° angle by hand filing. This work should be carried out by ships staff or refitting authorities, as appropriate.

4. Modification kits will be issued without demand when they become available.

(DWE 736/252/45)

UNCLASSIFIED

489—Medical and Dental Stores—Returns to Army Base Medical Store Depots—Discrepancies

In the event of Army Base Medical Store Depots (BMEDS) finding discrepancies in medical and dental stores returned from HMA ships and establishments, the Army Depot will raise an Army Discrepancy Report AF G985, one copy of which will be attached to the acquitted copies of the Return Voucher AF G1033 returned to the Supply Officer. These will not be altered by the BMED.

2. On receipt of such Army Discrepancy Reports by the Supply Officer, action is to be taken as follows—

- (a) (i) Discrepancies to be investigated and adjusted by the Army. These will be those discrepancies where—
- (A) deficiencies are revealed in packages damaged in transit;
 - (B) the contents of packages are damaged apparently due to mishandling in transit;
 - (C) the consignment or portion of the consignment has been lost, stolen or pillaged in transit.
- (ii) Army Discrepancy Reports covering such discrepancies will be endorsed "TLDR-consignee investigating and adjusting".
- (iii) No action by the ship or establishment is required other than the filing of the discrepancy report with the receipted voucher.

(b) All other cases of discrepancies occurring in the return of stores to BMEDS are to be investigated and adjusted by the RAN. Army Discrepancy Reports for such will be endorsed "Consignor to investigate and adjust". Action to be taken in ships and establishments for these discrepancies is as follows—

- (i) Discrepancies, which on investigation, are revealed as being the results of errors by the ship or establishment, are to be adjusted in the ledger and on the Supply Officers copies of the Return Voucher, AF G1033, to agree with the quantity, condition and description of the stores as received by the BMED. The discrepancy report is to be filed with the adjusted copies of the voucher and a Report of Stocktaking, Form AS 148 or Loss Report, Form AS126, raised if necessary.
- (ii) Discrepancy Reports, Forms AF G985, covering discrepancies which are not considered to be the result of errors by the ship or establishment are to be forwarded together with a detailed report of investigations as follows—
- (A) Those ships and establishments which forward demands through (or copies of demands to) RAN Medical and Dental Store Officer, are to forward Discrepancy Reports to that officer who will take up the matter with the AMF.
 - (B) All other ships and establishments are to forward discrepancy Reports to the Medical Director General, Navy Office who will take similar action.

(c) No adjustment to the ledgers or the Supply Officers copies of the Return Voucher, AF G1033, are to be made pending receipt of advice from the RAN Medical and Dental Store Officer or Medical Director General of action to be taken in respect of discrepancies of this nature.

3. ABR 4, Chapter 34 will be amended.

(DSAP 1605/201/35)

UNCLASSIFIED

490—Naval Stores (General)—Introductions—Group Class 6260—Catalogue No. 66-025-9362—Floodlight—Air Turbo—Atlas Copco Type FW 15

Navy Order 367 of 1967 is to be amended as follows—

amend all references to Group Class 6260 to read Group Class 6230.

Paragraph 1—

Description—

delete Floodlight—Air Turbo and *insert* Floodlight, Electric, Air Turbo.

Paragraph 6—

Group/Class 6240—

amend Catalogue No. 66-026-4796 to read 66-026-4794.

(DSAP 519/75/92)

(Navy Order 367 of 1967)

UNCLASSIFIED

491—Stores General—Accounting—Use of Unit Identification (Source) Code in Stores Documentation

Details of the Unit Identification (Source) Code for use in the RAN in conjunction with the introduction of Electronic Data Processing were promulgated in Navy Order 439 of 1967.

2. From the date of receipt of this Navy Order, originators of documents covering transactions with RAN Store Depots for the supply, return, etc., of all categories of stores are to insert the relevant code number in the space at present provided for name of ship, etc., which need no longer be shown.

3. Personnel responsible for the preparation of such documents should familiarise themselves with the code number of the ship or establishment in which they are serving and must be particularly careful that the correct number is shown in every instance.

(DSAP 400/51/240)

(Navy Order 439 of 1967)

RESTRICTED

492

12

RESTRICTED

492—Supply Division, Sydney—Superintending Armament Supply Officer

The correct address of the Superintending Armament Supply Officer, who is located at Spectacle Island, is—

RAN Armament Depot,
Spectacle Island, NSW 2000

2. Depots under control of SASO dealing with Armament and Weapon Equipment stores are located in various parts of Sydney and to avoid delays, routine correspondence, demands for and returns of stores should be addressed or consigned as follows—

Explosive and non-explosive magazine stores except missiles SASO,
RAN Armament Depot,
Newington, Via Jamison Street,
Silverwater, NSW

Postal address

SASO,
RAN Armament Depot,
PO Box 138,
Auburn, NSW 2144

Explosive and non-explosive missile stores SASO,
RAN Armament Depot,
Bringelly Road,
Kingswood, NSW 2750

Weapon equipment and gunwharf stores SASO,
RAN Weapon Equipment Depot,
Garden Island, NSW 2000

(DSAP 68/201/39)

ANO's 493-505/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
27th November, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

493—Admission of Goods From Australian Armed Forces Overseas

Customs concessions are available to members of the Australian Forces on war service or occupational duties overseas, and goods to a certain value may be sent to Australia free of duty.

2. The Department of Customs and Excise have stated that over the past twelve months the incidence of Service personnel failing to comply with Customs requirements in regard to special concessions has increased to an alarming extent.

3. In order to receive the benefit of the concession it is essential that each package forwarded to Australia be accompanied by a declaration on a special form drawn up for this purpose. The Department of Customs and Excise has stated that apparently the declarations are completed as required, but that in many instances they become separated from the package during transit, probably because of insecure attachment.

4. The arrival of a package without a declaration will result in inconvenience to the addressee and imposition of duty on goods which would otherwise be free. The attention of all members therefore, is drawn to the care necessary to ensure that their declarations are properly completed and securely attached to all packages before they are dispatched.

5. Attached as Appendix to this order is the revised statement of customs concessions available to Servicemen returning to Australia from overseas and a sample form of declaration as referred to in Paragraph 3 above.

6. RI will be amended.

7. This order will be reprinted for posting on notice boards.

APPENDIX

Form of Customs Declaration

Each member of the Australian Defence Force on special service overseas in accordance with the provisions of the Repatriation (Special Overseas Services) Act 1962-1965 or on service in the British Commonwealth Strategic Reserve area is entitled to the following special Customs concessions—

(a) Goods Sent to Australia

Customs duty and sales tax are not payable on the following goods sent to Australia—

(i) *Souvenirs, Gifts and Other Goods* (but not tobacco products and spirituous liquor) up to a total value of \$A50 in any calendar year—provided that such goods are not intended for sale, exchange or trade; and

(ii) *Tobacco Products* in addition to the goods to the value of \$A50 admitted free of duty mentioned in (i) above, up to—

2,000 cigarettes, or
5 lbs. tobacco, or
5 lbs. cigars (about 400 medium-size),
in any calendar year.

Important

- (i) **Declaration**—It is essential for Customs purposes for all parcels forwarded to Australia by servicemen abroad in terms of this concession, to be accompanied by a declaration. Failure to comply with this requirement will result in the addressee being charged duty on goods which would otherwise be free.
- (ii) **Prohibited Goods and Quarantine**—Please ensure that you do not send any prohibited or quarantinable goods in parcels to Australia—see pamphlet "Guide to Customs for Passengers to Australia". These goods are liable to confiscation and destruction on arrival in Australia.

(b) Goods Brought in by Servicemen Returning to Australia

In addition to the concessions available to all incoming passengers outlined in the pamphlet entitled "Guide to Customs for Passengers to Australia", each eligible member is allowed to bring into Australia, the following goods free of duty and sales tax—

- (i) **Souvenirs, Gifts and Other Goods** (but not tobacco products and spirituous liquor) up to a total value of \$A50 provided that this concession has not been allowed during the current calendar year in respect of goods sent to (see above) or brought to Australia from abroad and the goods are not intended for sale, exchange or trade; and

- (ii) **Tobacco Products** in addition to the quantity of tobacco products allowed admission free of duty mentioned in (a) (ii) above up to—

200 cigarettes, or
 ½ lb. tobacco, or
 ½ lb. cigars (about 40 medium-size),

for each week of leave granted but not exceeding a total of—

2,000 cigarettes, or
 5 lbs. tobacco, or
 5 lbs. cigars (about 400 medium-size).

Important

Declaration—In the case of eligible servicemen returning to Australia it is necessary for the normal Passenger's Baggage Declaration to be completed. In addition, the following declaration, which should be stamped or written on or affixed to the Passenger's Baggage Declaration Form, must be completed in order that the special concessions relating to souvenirs, gifts and other goods may be obtained—

I, hereby declare that—
(Name in Block Letters)

- (a) * I am a member of the Australian Defence Force on special service in accordance with the Repatriation (Special Overseas Service) Act 1962-1965,

or

- * I am on service in the British Commonwealth Strategic Reserve Area.

* Delete where not applicable

- (b) The value of the goods (excluding tobacco products) previously forwarded or brought to Australia by me from
(Country)
 during the current calendar year did not exceed \$A.....

Signature.....

Rank.....

Unit and Reg. No.....

Date.....

Note—The concessions set out in this order are not available to couriers, service attaches or service representatives serving at high commissions or embassies, or servicemen's wives or members of their families living abroad. These persons are, however, on return to Australia, entitled to the concessions outlined in the pamphlet "Guide to Customs for Passengers to Australia".

(c) Furniture and Household Goods

A passenger's furniture and household goods (to a specified value) are admitted free of duty and sales tax, provided such goods have been owned and used by the passenger for at least one year before the passenger's departure for Australia (see pamphlet "Guide to Customs for Passengers to Australia").

Applications from members of the Australian Defence Force for reduction of the one year period referred to, will be considered by the Department of Customs and Excise on the individual circumstances of each case.

(d) Form of Declaration to be Made by a Member of the Australian Defence Force on Special Service Overseas or on Service in the British Commonwealth Strategic Reserve Area, When Sending Goods to Australia

I, hereby declare that—

(Name in Block Letters)

- (a) * I am a member of the Australian Defence Force on special service in accordance with the Repatriation (Special Overseas Service) Act 1962-1965,

or

- * I am on service in the British Commonwealth Strategic Reserve Area.

* Delete where not applicable

- (b) The contents of this parcel, namely—

(If tobacco products—State quantity)

are valued at \$A..... (excluding tobacco products) and that Customs Declarations for all goods sent or taken with me to Australia from overseas have been duly furnished. I further declare that during the current calendar year I have sent or taken with me to Australia from overseas, goods (excluding tobacco products) to the total value of \$A..... including the value of the goods (excluding tobacco products) in this parcel.

Signature.....

Rank.....

Unit and Reg. No.....

Date.....

(DPS 184/3/3)

UNCLASSIFIED

494—RI—Quarterly List of Navy Orders Affecting

With reference to Page iv of RI, the following list shows those navy orders in force on 30th September, 1967, which amend or amplify RI (as corrected up to Amendment No. 13)—

RI Article	Navy Order	RI Article	Navy Order
Chapter 1, Section IV	272/1965	2074C	242/1967
0347	691/1965	2605	779/1965
	171/1965	3142	245/1966
	710/1965		93/1967
	711/1965	3144	241/1967
Chapter 5	742/1965	3223	135/1965
	117/1966	4487	487/1966
	16/1967	4622	232/1967
	95/1967	4909	619/1965
0505	658/1965	5209	676/1965
0806	653/1965	5211	653/1965
0823	7/1966	5243	509/1966
0845	605/1966		122/1967
0846	610/1966	5801	224/1965
1023	571/1966	6037	
1071	378/1966	6038	109/1966
	257/1967	6261	281/1967
1122	575/1965	6246	739/1965
1232	634/1965	APP 4A	323/1966
	475/1965	APP 4B	483/1965
1452	538/1965		497/1966
1572	308/1967	APP 5A	498/1966
1624	616/1966		14/1967
1704	393/1965	APP 10A	174/1965
1862A	350/1965		621/1965
1914	690/1966	APP 10B	756/1965
1957		APP 45A	136/1967
1957A	690/1965		

2. Navy Order 335 of 1967 is hereby cancelled.

(CEO (GS) 465/3/4)

(Navy Order 335 of 1967)

Section 2 PERSONNEL

UNCLASSIFIED

495—Head Injuries

In all cases of head injury an X-ray of the skull should be carried out at the earliest opportunity consistent with the safety of the patient.

2. RI Article 4459 is relevant.

(MDG 327/58/51)

UNCLASSIFIED

496—Naval Emergency Reserve and Citizen Naval Forces Sailors Posting Note

Navy Order 13 of 1967 is to be amended as follows—

(a) Paragraph 5 (c)—

Delete existing paragraph and insert the following in lieu—

(c) Reports—When a Reserve or CNF sailor has completed his service or training, Form PP 103 (Report on Reserve and CNF sailors borne for continuous training or service) is to be rendered. Pending the printing of Form PP 103, Form RANR 10 will be issued to all ships and establishments without demand and is to be rendered in lieu of PP 103 until stocks are exhausted.

(b) Paragraph 5 (d)—

Delete existing paragraph and insert the following in lieu—

(d) Uniform—As soon as convenient after joining, RANER and RAFR sailors uniform kits are to be inspected and checked against a copy of the relevant form AS 79 which will be forwarded by Director of Victualling and which may be destroyed after use. Issues and/or replacements may be made, in accordance with current instructions, on Forms AS 149 which are not to include details of issues to other than Reserve and CNF sailors.

2. Issues are not to be made to RANR sailors unless authorised by the appropriate Reserve Training Establishment or the Director of Naval Reserves.

(D of R 333/8/279)

(Navy Order 13 of 1967)

UNCLASSIFIED

497—Results of Passing Out and Higher Education Test—
HMAS LEEUWIN—October, 1967

The pass marks obtained by Junior Recruits at the Passing Out and Higher Educational Tests held in HMAS LEEUWIN are shown in the Appendix to this order.

2. The results of the above test have been adjusted to the HET standard and the sailors mentioned in the Appendix have been granted passes in the subjects indicated.

3. Commanding Officers are to ensure that the Certificates of Service of those concerned are noted in the appropriate section.

Name	Rank	P/N	III Geography	IV Navigation	V Mathematics	VII Magnetism and Electricity	VIII English Expression	Remarks
ATKINSON, Ian Edward	JR1(EM)	R95700	50				55	
BOCK, Stephen Francis	JR1(ME)	R95709	55	58			63	
BRASSEL, Peter John..	JR1(UC)	R95711					53	
BURNS, Raymond John	JR1(EM)	R95714		69			63	
COOMBE, Wayne John	JR1(NAM)	R95721	50					
DEASY, Mark Andrew	JR1(EMA)	R95726	51	54				
DOUGLAS, Burney Norman	JR1(EM)	R95728	51					
EWEN, Steven Wayne..	JR1(EM)	R95732	50	59				
FAIR, Dennis Malcolm	JR1(NA)	R95733	50	52				
JEPPESEN, Morris James	JR1(WTR)	R95745	65	81	89	66		QSD
KIELBICKI, John Anthony	JR1(EM)	R95747	58				72	
McARTHUR, Graeme James	JR1(WM)	R95761					53	
McLEOD, Stephen John	JR1(CK)	R95767					58	
MENADUE, Laurence Kenneth	JR1(EMA)	R95754		73			55	
PAVETT, Graham Lindsay	JR1(NA)	R95768					55	
REES, Norman John H.	JR1(CD)	R95773					50	
SCOTT, Robert Allan	JR1(CO)	R95778	52	57				
SHANNON, Timothy Peter	JR1(STWD)	R95779	52	58				
SHEELY, Michael Kenneth	JR1(CO)	R95780	50					
TIDY, Robert Murray..	JR1(WTR)	R95789			52		55	
WALSHAW, Paul Raymond	JR1(CO)	R95793	74	78			75	
WRIGHT, Noel Anthony	JR1(EM)	R95799		51				

(HPB 325/53/17)

UNCLASSIFIED

498—Tag, Identification, Personnel

The issue of identification tags to members of the Royal Australian Naval Emergency Reserve and Citizen Naval Forces is to be restricted to those members carrying out continuous training or service in excess of 28 days.

2. Navy Order 178 of 1967 is relevant.

(D of V 917/54/127)

(Navy Order 178 of 1967)

UNCLASSIFIED

499—Vietnam Medal—Award for Service in South Vietnam

Her Majesty the Queen has approved the award of a medal in recognition of Service by Australian and New Zealand Forces in repelling aggression in Vietnam since 29th May, 1964. This medal is to be known as the Vietnam Medal.

Design

2. The medal is to be of cupro-nickel and circular in shape. It will bear on the obverse the crowned effigy of the Queen and on the reverse the word "Vietnam" inscribed above a symbolic representation of the ideological war in Vietnam, depicting the figure of man in the centre of the medal standing between spherical shapes.

3. The ribbon is 1½-in. wide and is yellow surmounted by three thin red vertical stripes in the centre, flanked by red stripes of a deeper hue, with broad dark blue on the left and broad light blue on the right. The design incorporates the colour of the national flag of South Vietnam and the colours traditionally symbolic of the three Services.

Qualifying Service

4. The qualifying conditions for the award of the Vietnam Medal are common to all three Services, from 29th May, 1964, to a date yet to be determined, and are as follows—

- Service of twenty-eight days, continuous or aggregated in ships or craft employed in operations on inland waters or off the coast of Vietnam.
- Service of one day or more on the posted strength of a unit or formation on land in Vietnam; or
- One operational sortie over Vietnam or Vietnamese waters by aircrew on the posted strength of a unit allocated for direct support of operations in Vietnam.
- Service of thirty days either continuous or aggregated on official visits, inspections or other occurrences of a temporary nature or duty by members of Australian or New Zealand Navies or Armies or Air Forces in Vietnam or in ships or craft engaged in operations off the Vietnamese coast.

5. In order to qualify under condition 4 (a) a member must be on the posted strength of a ship or craft allotted for Special Duty in the Special Areas of Vietnam and/or the waters adjacent thereto—see Navy Order 362 of 1966. The crews of Naval

vessels which visit Vietnam for the purpose of transporting personnel and equipment are not so allotted but may count actual time spent in harbour in Vietnam as qualifying service under (d) of the above conditions.

6. The qualifying service as described in Sub-paragraph 4 (a) and (d) will be waived where a members service is brought to an end because of death or evacuation owing to wounds or other disability due to service, or the member is awarded a British Honour, Decoration or Medal of the status of the British Empire Medal or above, a Mention in Dispatches or a Queen's Commendation for gallantry on a specific occasion during the uncompleted qualifying period.

7. The manufacture and issue of the medal will be undertaken as soon as possible. In the meantime the ribbon will be supplied and is to be worn by eligible members.

8. It is the responsibility of officers and sailors, who carry out service in Vietnam under 4 (d) above as individuals rather than as members of Naval units, to ensure that Navy Office is advised of such service including times and dates of arrival and departure.

9. A provisional list of HMA ships with the periods of qualifying service towards the Vietnam Medal will be promulgated by Confidential Australian Navy Order. This list will be amended from time to time as additional details of qualifying service are received.

10. This order will be reprinted for posting on notice boards.

(HPB 38/201/21)

(Navy Order 362 of 1966)

UNCLASSIFIED

500—Vietnamese Campaign Medal—Award for Service in South Vietnam

Approval has been given for members of the Australian Forces, who comply with the conditions laid down by the Vietnamese Authorities, to qualify for the campaign medal issued by the Vietnamese Government for service in the Vietnam war.

2. The medal is a gold and white enamelled star with a green, red and gold centre motif. The medal ribbon to be worn is one and three-eighths inches in width, green in colour with three vertical white stripes. The date cluster worn on the ribbon by members of the Republic of Vietnam Armed Forces is not to be worn by members of the Australian Forces.

3. The approved conditions for the grant of the award of the Medal to Australian Servicemen are as follows—

- (a) Allotment for special service in Vietnam (as defined by the Repatriation (Special Overseas Service) Act—see Navy Order 362 of 1966) of a minimum of six months duration, either continuous or aggregated, with retrospective effect to 31st July, 1962.
- (b) Allotment for special service in Vietnam of less than six months duration since 1962 if—
- killed on active service or wounded in action and evacuated;
 - captured and later released or escaped.

4. No provision, such as that provided for in the Vietnam Medal, is made for the award to be granted immediately to personnel awarded a decoration for gallantry or bravery in action prior to completion of the minimum qualifying period.

5. Some time will elapse before the medals are available for issue. In the meantime ribbon will be supplied and is to be worn by eligible personnel.

6. This Navy Order will be reprinted for posting on notice boards.

(HPB 38/201/21)

(Navy Order 362 of 1966)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

501—Alteration and Addition Item—HMAS QUEENBOROUGH

The following Alteration and Addition Item is approved to be carried out in HMAS QUEENBOROUGH—

Class List Item No. 594 (Ex TDL "NQAV").

- (a) *Item:*
- To improve stowage arrangements in Naval Stores by fitting two cabinets in place of bin stowages centre line and repositioning gauge board in No. 2 Naval Store and removing fixed cable reels in Nos. 1 and 2 Naval Stores.
 - To provide combined spare gear store in existing Electrical Spare Gear Store, and fit out with commercial type racking. Changes in weight are to be reported.
- (b) *References:*
- ACNB signal 062315Z March, 1966.
 - GMWD memorandum 238/60/50 dated 17th March, 1966.
 - NOM 400/252/94 dated 12th April, 1966.

(CNTS 400/252/114)

UNCLASSIFIED

502—Naval Stores—General—Embossing Machine, Identification Tape—Accounting

The undermentioned item has been introduced into service—

<i>Group/ Class</i>	<i>Catalogue No.</i>	<i>Description</i>	<i>Acctg. Classn.</i>
7490	66-026-5375	Embossing Machine, Identification Tape, (Dymo M20)	Permanent

2. This machine supersedes 7490-66-019-6450 Embossing Machine, Identification Tape, (Dymo M29), introduced by Navy Order 572 of 1965, which is no longer in production. Although obsolescent the M29 machines already in use are to be retained until they are beyond economical repair.

3. The M20, capable of embossing both $\frac{1}{4}$ -in. and $\frac{3}{8}$ -in. tapes, is fitted with a dual tape track for quick changes of tape widths. Letter spacing can be altered from regular to wide instantly by a simple movement of the selector knob.

4. In the interests of economy $\frac{1}{4}$ -in. tapes will normally be issued for use with these machines and strict control over their use is to be maintained.

(Navy Order 572 of 1965)

(DSAP 514/62/218)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

503—ABR 5063 Electronic Data Processing—Volume 2—Personnel System Documents and Procedure

ABR 5063—Electronic Data Processing—Volume 2—Personnel System Documents and Procedures, has now been introduced. Distribution will be effected by SVSO, Sydney, as detailed in the Appendix to this order, without demand. Subsequent demands for copies of this publication should be made on SVSO, Sydney.

2. Navy Order 446 of 1967 also refers.

APPENDIX

ABR 5063, Volume 2—Personnel System Documents and Procedures
Distribution List

Navy Office				HMAS GULL	1
Secretary .. .. .	..	..	1	HMAS HAWK	1
INM .. .. .	..	..	1	HMAS HOBART	2
2NM .. .. .	..	..	1	HMAS IBIS	1
3NM .. .. .	..	..	1	HMAS KIMBLA	1
4NM .. .. .	..	..	1	HMAS MELBOURNE	6
DCNP .. .. .	..	..	1	HMAS MORESBY	2
DMT .. .. .	..	..	1	HMAS OTWAY	1
DDM .. .. .	..	..	10	HMAS OXLEY	1
HPB .. .. .	..	..	10	HMAS BRISBANE	2
DOA .. .. .	..	..	1	HMAS PALUMA	1
CONS .. .. .	..	..	1	HMAS PARRAMATTA	2
MDG .. .. .	..	..	2	HMAS PERTH	2
DNR .. .. .	..	..	1	HMAS QUEENBOROUGH	2
DNES .. .. .	..	..	1	HMAS PLATYPUS	2
D of R .. .. .	..	..	1	HMAS STALWART	2
D/WRANS .. .. .	..	..	1	HMAS STUART	2
DFWS .. .. .	..	..	1	HMAS SUPPLY	2
DFSD .. .. .	..	..	1	HMAS SYDNEY	6
AS(EDP) .. .. .	..	..	25	HMAS TEAL	1
DNA .. .. .	..	..	2	HMAS VAMPIRE	2
HMA Ship or Establishment				HMAS VENDETTA	2
FOCAF .. .. .	..	..	2	HMAS YARRA	2
HMAS ANZAC .. .. .	..	..	2	NAS 723	1
HMAS CURLEW .. .. .	..	..	1	NAS 724	1
HMAS DERWENT .. .. .	..	..	2	NAS 725	1
HMAS DIAMANTINA .. .. .	..	..	2	NAS 805	1
HMAS DUCHESS .. .. .	..	..	2	NAS 816	1
				NAS 817	1
				NAS 851	1

NSW

FOICEA .. .. .	..	..	2
HMAS ALBATROSS .. .. .	..	..	10
HMAS CRESWELL .. .. .	..	..	3
HMAS HARMAN .. .. .	..	..	3
HMAS KUTTABUL .. .. .	..	..	4
HMAS KUTTABUL II .. .. .	..	..	1
HMAS NIRIMBA .. .. .	..	..	3
HMAS PENGUIN .. .. .	..	..	3
HMAS RUSHCUTTER .. .. .	..	..	1
HMAS WATERHEN .. .. .	..	..	4
HMAS WATSON .. .. .	..	..	3

Victoria

NOIC VIC .. .. .	..	..	2
HMAS CERBERUS .. .. .	..	..	25
HMAS LONSDALE .. .. .	..	..	3

Northern Territory

NOIC NA .. .. .	..	..	2
HMAS MELVILLE .. .. .	..	..	3

New Guinea

NOIC NG .. .. .	..	..	1
HMAS TARANGAU .. .. .	..	..	3

Queensland

NOIC QLD .. .. .	..	..	2
HMAS MORETON .. .. .	..	..	3

South Australia

NOIC SA	2
HMAS ENCOUNTER	1

Tasmania

NOIC TAS	2
HMAS HUON	1

ANRUK

ANA Washington	2
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West Australia

NOIC WA	2
HMAS LEEUWIN	3

D/Audit, Navy Internal Audit Branch 1

Eastern Division, Navy Internal Audit Branch 1

Southern Division, Navy Internal Audit Branch 1

Auditor-General, Canberra .. 1

Chief Auditor, New South Wales .. 1

Chief Auditor, Victoria 1

Chief Auditor, Queensland 1

Chief Auditor, Western Australia .. 1

Chief Auditor, South Australia .. 1

Chief Auditor, Northern Territory .. 1

Chief Auditor, Tasmania 1

Chief Auditor, Territory of Papua-New Guinea 1

Department of Defence 1

Defence Library 1

Department of Army 1

Department of Air 1

(AS (EDP) 465/1/1185)

(Navy Order 446 of 1967)

UNCLASSIFIED

504—Form SA 106—Personal Issue Card—Introduction

Form SA 106, Personal Issue Card, has been introduced for the purpose of recording details of accountable stores issued for the use of individuals.

2. The card, which is constructed of systems board and measures 8½-in. × 5½-in., is designed for use in civil establishments and contains sections for recording the following particulars—

(a) The name and clock number of the individual to whom the items are issued.

(b) The store from which the items were issued.

(c) Details of items issued and returned and acknowledgment of their receipt.

3. Forms SA 106 are now available for issue and may be obtained on demand from SVSO, Sydney.

(DSAP 464/77/61)

UNCLASSIFIED

505—Introduction of Postcode

The Post Office has recently introduced a code number address system. Each place in Australia has been assigned a four-digit number which is called its Postcode.

2. The Postcode is now an essential part of any correct postal address. All letterheads prepared for mailing are to include the Postcode of the originator and all envelopes prepared for mailing are to include the Postcode of the addressee.

3. The only exception is that mail addressed to HMA ships is still to be addressed c/o GPO without a Postcode included. In this connection it should be noted that mail for HMA ships should not be addressed c/o GPO at any particular capital city.

4. Letterheads and envelopes will include necessary Postcode details on next reprinting.

5. Postcode booklets listing both the Postcode of various places and explanations how Postcodes are to be used are obtainable from any Post Office.

(CEO (GS) 68/1/27)





AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
29th November, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

506—Stores General (Group Class 5815)—Teletype and Facsimile Equipment—Change of Stock Numbers

Further to Navy Orders 64 and 118 of 1967 the following items of Teletype and Facsimile Equipment previously accounted for under Teletype part numbers have been re-identified to Federal or Defence Stock Numbers, as listed hereunder—

Old Identification Number		Item Name	New Identification Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
5815	00-TT-54427	Spring	5815	00-325-1810
5815	00-TT-191M	Coil Magnet	5950	00-232-8645
5815	00-TT-198M	Coil Magnet	5950	66-027-0303
5815	00-TT-1156	Screw	5305	00-705-5977
5815	00-TT-2084	Roller	5815	66-027-0311
5815	00-TT-2658	Nut	5310	00-268-7519
5815	00-TT-2760	Spring	5340	00-448-1360
5815	00-TT-3226	Washer	5310	00-754-2271
5815	00-TT-3448	Washer	5310	66-027-0304
5815	00-TT-3475	Nut	5310	66-027-0305
5815	00-TT-3607	Nut	5310	66-027-0306
5815	00-TT-4707	Washer	5310	00-027-0307
5120	00-TT-4838	Wrench	5120	00-391-9617
5120	00-TT-4840	Wrench Open End	5120	66-027-0300
5815	00-TT-6710	Armature	5815	00-448-0527
5815	00-TT-6827	Block	5815	66-027-0308
5815	00-TT-6861	Washer	5310	66-027-0309
5815	00-TT-6972	Backstop	5815	66-027-0310
5815	00-TT-7449	Bushing	5815	00-027-0312
5815	00-TT-8686	Filler Wood	5815	00-392-0332
5815	00-TT-13859	Lever	5815	66-027-0313
5815	00-TT-33765	Washer	5310	00-392-0341
5815	00-TT-35137	Spring	5815	66-027-0314
5815	00-TT-35140	Clip	5815	66-027-0315
5815	00-TT-42420	Spring	5815	66-027-0316
5815	00-TT-71675	Spring	5930	00-224-5866
5815	00-TT-71840	Nut	5310	00-448-1558
5815	00-TT-73018	Fitting	5815	66-027-0317
5815	00-TT-73180	Switch	5930	66-027-0318
5950	00-TT-73290	Cone	5815	66-027-0359
5120	00-TT-73404	Wrench	5120	00-370-1289
5815	00-TT-73409	Brush	5815	00-690-6537
5905	00-TT-78205	Resistor	5905	00-195-3474
5815	00-TT-73641	Guide	5815	66-027-0020
5815	00-TT-74085	Washer	5310	66-027-0321
5815	00-TT-74744	Guard	5815	66-027-0322
5815	00-TT-74779	Rivet	5320	00-515-8894
5815	00-TT-74800	Washer	5310	66-027-0323

Old Identification Number		Item Name	New Identification Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
5815	00-TT-75906	Washer	5310	66-027-0323
5815	00-TT-77041	Spring	5815	66-027-0324
5815	00-TT-77068	Plate	5815	00-027-0325
5815	00-TT-77128	Washer	5310	66-027-0327
5815	00-TT-77130	Guard	5815	66-027-0327
5815	00-TT-77650AA	Guard	5815	00-525-0779
5815	00-TT-77953	Motor	5815	00-448-2146
5815	00-TT-78239	Armature Motor	6105	66-027-0328
5120	00-TT-78590	Pliers	5120	66-027-0301
5815	00-TT-80299	Spring	5815	00-223-1127
5815	00-TT-80473BA	Cover	5815	00-084-0262
5815	00-TT-80870	Rail	5815	00-369-9637
5815	00-TT-81000	Meter	6625	66-027-0329
5815	00-TT-81514	Plate	5815	66-027-0330
5905	00-TT-81755	Resistor	5905	00-191-6333
5910	00-TT-81841	Capacitor	5910	00-369-9648
5815	00-TT-82487	Spring	5935	00-193-2818
5905	00-TT-82867	Resistor	5905	00-229-1219
5815	00-TT-83341	Loop	5815	66-027-0331
5815	00-TT-83366	Light Indicator	6210	00-959-6699
5815	00-TT-84058	Plate	5815	66-027-0332
5815	00-TT-84674	Contact	5815	66-027-0033
5815	00-TT-84701	Lever	5815	66-027-0034
5815	00-TT-84702	Bracket	5815	66-027-0335
5815	00-TT-84757	Contact	5815	66-023-0336
5120	00-TT-85594	Wrench	5120	00-392-0012
5815	00-TT-86008	Screw	5305	00-885-1860
5815	00-TT-86634	Stiffener	8515	66-027-0337
5305	00-TT-86802	Screw	5305	66-027-0338
5815	00-TT-86872	Stop	5815	66-027-0339
5815	00-TT-87385	Strap	5815	66-027-0340
5815	00-TT-87638	Screw	5305	00-412-7022
5815	00-TT-87851	Bushing	5970	00-391-9983
5815	00-TT-89096	Washer	5310	66-027-0341
5815	00-TT-89404	Key Top	5815	66-027-0342
5815	00-TT-90287	Lever	5815	66-027-0343
5815	00-TT-90790	Washer	5310	00-527-5833
5120	00-TT-90873	Wrench	5120	66-027-0302
5815	00-TT-91610	Pallet	5815	66-027-0344
5815	00-TT-91231	Terminal	5815	00-412-7264
5815	00-TT-91751	Copy Holder	5815	66-027-0345
5815	00-TT-91755	Switch	5930	00-240-3675
5815	00-TT-92151	Connector	5935	00-943-1291
5815	00-TT-93012	Cover Transmitter	5815	66-027-0346
5815	00-TT-93834	Glass	5815	66-027-0347
5815	00-TT-94646	Stick	5815	00-448-4164
5815	00-TT-95338	Pallet	5815	66-027-0348
5815	00-TT-96257BK	Wire	5815	66-027-0349
5815	00-TT-97256CK	Strap	5815	66-027-0350
5815	00-TT-97298	Bracket Assembly	5815	00-392-0095

Old Identification Number			New Identification Number		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5815	00-TT-97393	Screw	5305	00-349-0854	
5815	00-TT-97581BA	Reel Container	5815	66-027-0351	
5815	00-TT-97600	Carrier	5815	66-027-0352	
5815	00-TT-98049	Key Stop	5815	66-027-0353	
5815	00-TT-98708	Plate	5815	00-313-9918	
5815	00-TT-98712	Screw	5305	66-027-0354	
5815	00-TT-98916	Pallet	5815	00-241-2614	
5815	00-TT-99038	Typebar Assembly	5815	66-027-0355	
5815	00-TT-99214	Splicer	5815	66-027-0356	
5815	00-TT-99391	Gauge	5220	00-800-5245	
5815	00-TT-99578	Key Top	5815	66-027-0357	
5815	00-TT-99830	Lever	5818	66-027-0358	
5815	00-TT-100743	Clamp	5975	00-392-1316	
5815	00-TT-101004	Terminal	5940	00-193-0824	
5815	00-TT-101427	Gear	5815	66-027-0360	
5815	00-TT-101723	Bar	5815	66-027-0361	
5815	00-TT-101724	Bar	5815	66-027-0362	
5815	00-TT-101783	Washer	5310	00-677-5761	
5815	00-TT-101987	Finger	5815	00-796-0886	
5815	00-TT-102019	Washer	5310	66-027-0363	
5815	00-TT-102041	Gear	5815	66-027-0364	
5815	00-TT-102042	Gear	5815	00-888-0753	
5815	00-TT-102119	Clutch	5815	00-888-0756	
5815	00-TT-102125	Clutch	5815	00-888-0757	
5815	00-TT-102209	Roller	5815	00-858-2681	
5815	00-TT-102222	Stripper	5815	00-888-0758	
5815	00-TT-102223	Arm	5815	00-858-2684	
5815	00-TT-102225	Washer	5815	00-858-2686	
5815	00-TT-102227	Bracket	5815	00-858-2688	
5815	00-TT-102304	Lever	5815	00-858-2690	
5815	00-TT-102415	Latch	5815	00-888-2760	
5815	00-TT-102422	Bail	5815	66-027-0365	
5815	00-TT-102890	Armature	5815	66-027-0366	
5815	00-TT-102892	Screw	5305	66-027-0367	
5815	00-TT-102893	Plate	5815	66-027-0368	
5815	00-TT-102894	Plate	5815	66-027-0369	
5815	00-TT-102895	Lever	5815	66-027-0370	
5815	00-TT-102946	Filter	5815	00-503-2422	
5815	00-TT-102974	Washer	5310	66-027-0371	
5815	00-TT-103120	Nut	5310	00-906-8938	
5815	00-TT-103182	Pawl Assembly	5815	66-027-0372	
	BA/L1				
5815	00-TT-103511	Screw	5305	66-027-0373	
5815	00-TT-103534	Tool	5120	00-873-4001	
5815	00-TT-103531	Insulator	5970	66-027-0374	
5815	00-TT-103968	Cover Arm	5815	66-027-0375	
5120	00-TT-104457	Wrench	5815	00-888-0267	
5815	00-TT-104672	Connector	5935	00-237-6662	
5815	00-TT-105045	Wick	9390	00-392-0498	
5815	00-TT-105048	Modification Kit	5815	00-407-4979	

Old Identification Number			New Identification Number		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	
5815	00-TT-105116	Washer	5310	66-027-0376	
5815	00-TT-105136	Cam Sleeve	5815	00-858-2724	
5815	00-TT-108891	Bolt Machine	5306	00-392-0560	
5815	00-TT-109631	Spring	5815	00-664-2211	
5120	00-TT-110271	Wrench	5815	00-520-1778	
5815	00-TT-110375	Support	5815	00-858-2745	
5120	00-TT-110442	Screwdriver	5120	00-224-7385	
5815	00-TT-110476	Screw	5305	00-638-6212	
5815	00-TT-110647	Retainer	5815	66-027-0377	
5815	00-TT-110648	Transformer	5950	00-256-5822	
5815	00-TT-110651	Gear	5815	66-027-0378	
5815	00-TT-110652	Gear	5815	00-992-4179	
5815	00-TT-110701	Cam Sleeve	5815	00-888-0780	
5815	00-TT-111744	Pallet	5815	66-027-0379	
5815	00-TT-111516	Washer Flat	5310	00-754-2270	
5815	00-TT-111745	Pallet	5815	66-027-0380	
5815	00-TT-112570	Contact	5815	00-448-3619	
5815	00-TT-112694	Connector	5815	00-862-6521	
5815	00-TT-113252	Key Top	5815	66-027-0381	
5815	00-TT-114178	Container Reel	5815	66-027-0382	
5815	00-TT-114240AA	Copy Holder	5815	66-027-0383	
5815	00-TT-114717	Track	5815	66-027-0384	
5815	00-TT-114967	Bracket	5815	00-392-1788	
5815	00-TT-114968BA	Switch Assembly	5930	66-027-0385	
5815	00-TT-115721AA	Plate	5815	66-027-0386	
5815	00-TT-115933AA	Plate	5815	00-345-8588	
6240	00-TT-116698	Lamp	6240	00-155-8706	
6240	00-TT-116783	Fuseholder	5920	00-525-1230	
6240	00-TT-117078	Screw	5815	00-818-5650	
6240	00-TT-117375	Box	5815	00-823-1315	
6240	00-TT-117406	Contact	5945	00-392-1794	
6240	00-TT-117434AA	Door	5815	00-369-9161	
6240	00-TT-117447BA	Plate	5815	00-126-3925	
5815	00-TT-118348	Cap Clear	5815	00-027-0378	
5815	00-TT-118530	Gauge	5815	00-862-6526	
5815	00-TT-119904	Spring	5815	00-609-7500	
5815	00-TT-120079	Gear Fibre	5815	66-027-0388	
6130	00-TT-120195	Rectifier	6130	00-525-1236	
5815	00-TT-120498	Retainer	5815	66-027-0389	
5815	00-TT-120714	Hub	5815	66-027-0390	
5815	00-TT-120882	Contact	5815	66-027-0391	
5815	00-TT-120896	Screw	5305	00-637-9756	
5815	00-TT-121021	Screw	5305	00-316-9597	
5815	00-TT-120138	Wrench	5120	00-873-4003	
5815	00-TT-121125	Washer	5310	00-596-9516	
5815	00-TT-121243	Clamp	5340	00-200-5569	
5815	00-TT-121245	Clamp	5340	00-860-1778	
5815	00-TT-121253	Pinion	5815	66-027-0392	
5815	00-TT-121254	Gear	5815	66-027-0393	
5815	00-TT-121473	Stud	5307	66-027-0394	

Old Identification Number		Item Name	New Identification Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
5815	00-TT-121550	Tool	5815	00-325-1589
5815	00-TT-121790	Screw	5305	66-027-0395
5815	00-TT-122103	Spring	5815	66-027-0396
5815	00-TT-124039	Relay Pole	5945	66-027-0397
5815	00-TT-124134	Spring Adjusting	5120	00-331-6069
5815	00-TT-124828	Pad	5120	00-873-4002
5815	00-TT-125003	Screw	5305	00-392-2039
5815	00-TT-125010	Washer	5330	00-193-9946
5815	00-TT-125127	Screw	5305	00-392-2069
5815	00-TT-125171	Screw	5305	00-298-2470
5815	00-TT-125175	Screw	5305	66-027-0398
5815	00-TT-125219	Nut	5310	00-677-1641
5815	00-TT-125246	Spring	5340	00-392-2120
5815	00-TT-125307	Washer	5310	00-197-3302
5815	00-TT-125434	Washer	5815	00-392-2197
5815	00-TT-125444	Spring	5815	00-502-6099
5815	00-TT-125450	Post	5815	66-027-0399
5815	00-TT-125490	Roller	5815	00-129-1936
5815	00-TT-125637	Feed Roll	5815	00-392-1141
5815	00-TT-125642	Bracket Assembly	5815	00-392-1142
5815	00-TT-125645	Guide Tape Twister	5815	00-392-1143
5815	00-TT-125647	Plate	5815	00-392-1145
5815	00-TT-125688	Bracket	5815	00-448-3635
5120	00-TT-125752	Socket Wrench	5120	00-392-2313
5120	00-TT-125754	Wrench	5120	00-333-9450
5120	00-TT-125763	Wrench	5120	00-392-2321
5120	00-TT-125765	Wrench	5120	00-906-0396
5815	00-TT-125869	Lever	5815	00-126-4148
5815	00-TT-125870	Roller	5815	00-126-4149
5815	00-TT-125882	Terminal	5940	00-245-5934
5120	00-TT-129534	Wrench	5120	00-596-4425
5120	00-TT-129235	Wrench	5120	00-596-4426
5120	00-TT-129536	Wrench	5120	00-596-4421
5120	00-TT-129537	Wrench	5120	00-596-4422
5120	00-TT-129848	Screwdriver	5120	00-520-1783
5815	00-TT-129966	End Spindle	5815	66-026-9400
5815	00-TT-131097	Terminal	5940	66-026-9401
5815	00-TT-135059	Scale Weighing	5220	00-329-8822
5120	00-TT-135677	Wrench	5120	00-807-6734
5120	00-TT-135678	Wrench	5120	00-544-3944
5815	00-TT-135679	Blade	5120	00-331-6071
5815	00-TT-135680	Wrench	5120	00-331-6072
5815	00-TT-135694	Roller	5815	00-566-6560
5815	00-TT-135771	Screw	5305	66-026-9402
5815	00-TT-139676	Drill	5815	00-925-6777
5815	00-TT-138591	Lever	5815	00-125-5044
5815	00-TT-142554	Hook	5120	00-925-6777
5815	00-TT-14255	Hook	5120	00-873-3998
5815	00-TT-143089	Gauge	5815	00-947-5973
5815	00-TT-150950	Name Plate	9905	00-525-0843

Old Identification Number		Item Name	New Identification Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
5815	00-TT-150979	Capacitor	5910	00-570-7349
5930	00-TT-151329	Switch Sensitive	5930	00-525-1806
5815	00-TT-151394	Brush Typewriter	5815	00-325-1701
5815	00-TT-151456	Bracket	5815	66-026-9404
5815	00-TT-151867	Bracket	5815	00-315-3324
5815	00-TT-151939	Grommet	5815	00-325-1719
5815	00-TT-152000	Base	5815	00-679-8377
5815	00-TT-152766	Gear Set	5815	00-886-4619
5815	00-TT-152007	Key Lever	5815	66-026-9405
5815	00-TT-152020	Key Lever	5815	00-026-9406
5815	00-TT-152157	Clip Function Lever	5815	00-525-0975
5815	00-TT-52127	Clip Function Lever	5815	00-525-0975
5815	00-TT-152131	Key Lever	5815	00-525-2031
5815	00-TT-15132	Key Lever	5815	00-525-2032
5815	00-TT-152223	Gram Scale	5815	00-888-0788
5815	00-TT-152299	Lever	5815	00-525-0976
5815	00-TT-152318	Switch	5815	00-739-9747
5815	00-TT-152334	Modification Kit	5815	66-026-9403
5815	00-TT-152335	Modification Kit	5815	00-679-8389
5815	00-TT-152338	Modification Kit	5815	00-325-1737
5815	00-TT-152344	Modification Kit	5815	66-026-9407
5815	00-TT-152540	Bracket Latch Rail	5815	66-026-9408
5815	00-TT-152625	Line Test Switch	5815	00-679-8397
5815	00-TT-152673	Bar Function	5815	00-525-1021
5815	00-TT-152684	Bar Function	5815	00-525-1032
5815	00-TT-152693	Bar Function	5815	00-525-1041
5815	00-TT-152694	Bar Function	5815	00-525-1041
5815	00-TT-152924	Stud	5815	00-923-6541
5815	00-TT-152925	Latch	5815	00-084-4899
5815	00-TT-152972	Handle	5815	00-084-4900
5815	00-TT-152993	Screw Shouldered	5305	00-302-6446
5815	00-TT-152994	Switch Toggle	5930	00-240-3690
5815	00-TT-153024	Screw	5815	00-525-2243
5815	00-TT-153027	Post	5815	00-525-2245
5815	00-TT-153092	Spring	5815	00-624-0084
5815	00-TT-153103	Screw	5305	00-313-3018
5815	00-TT-153104	Bracket Copy Holder	5815	66-026-9404
5815	00-TT-153104	Bracket Copy Holder	5815	66-026-9404
5815	00-TT-153105	Copy Holder Assembly	5815	66-024-9447
5815	00-TT-153114	Lead Electrical	5995	00-331-0324
5815	00-TT-153403	Copy Tray	5815	00-971-1638
5815	00-TT-153484	Screw	5305	00-606-5353
5815	00-TT-153562	Shaft	5815	00-679-8568
5815	00-TT-153574	Roller	5815	00-607-3874
5815	00-TT-153579	Bracket	5815	00-679-8579
5815	00-TT-153580	Bracket	5815	00-679-8850
5815	00-TT-153621	Cable Assembly	5815	00-710-4283
5815	00-TT-153623	Box Assembly	5815	00-679-8594
5815	00-TT-153624	Contact Assembly	5815	00-679-8595
5815	00-TT-153636	Lever Assembly	5815	00-709-2695

Old Identification Number			New Identification Number		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	Item Name
5815	00-TT-153637	Spring	5815	00-701-6270	
5815	00-TT-153638	Bracket	5815	00-701-6269	
5815	00-TT-153877	Bracket	5815	00-709-5611	
5815	00-TT-153890	Nut	5815	00-679-8611	
5815	00-TT-153892	Meter	6625	00-971-1670	
5815	00-TT-153893	Stud	5307	00-739-9748	
5815	00-TT-153964	Counter Weight	5815	00-679-8612	
5815	00-TT-154048	Latch Code Bar Rail	5815	00-705-4991	
5815	00-TT-154127	Nut	5310	00-677-2280	
5815	00-TT-154138	Washer	5330	00-652-2156	
5815	00-TT-154147	Modification Kit	5815	66-026-9410	
5815	00-TT-154200	Frame	5815	00-651-7072	
5815	00-TT-154234	Bail Code Bar	5815	00-701-6321	
5815	00-TT-154416	Plate	5815	00-325-1807	
5815	00-TT-154418	Spring	5815	00-885-5116	
5815	00-TT-154433	Clamp	5815	00-325-1812	
5815	00-TT-154441	Nut Plate	5815	00-325-1818	
5815	00-TT-154446	Cover	5815	00-705-3966	
5815	00-TT-154452	Cover	5815	00-325-1820	
5815	00-TT-154454	Pad	5815	66-024-9411	
5815	00-TT-154463	Mounting	5340	00-779-2454	
5815	00-TT-154481	Bar	5815	00-807-1974	
5815	00-TT-154482	Bar	5815	00-807-1975	
5815	00-TT-154483	Eye Bolt	5815	00-325-1823	
5815	00-TT-154484	Nut	5815	00-325-1824	
5815	00-TT-154494	Spring	5815	66-026-9412	
5815	00-TT-154551	Bail	5815	66-026-9414	
5815	00-TT-154625	Ring	5815	00-679-8623	
5815	00-TT-154628	Governor Assembly	5815	00-605-8474	
5815	00-TT-154639	Slide	5815	00-679-8625	
5815	00-TT-154945	Print	5815	66-024-9413	
5815	00-TT-154680	Bearing Roller	3110	00-871-0269	
5815	00-TT-155045	Switch	5930	00-820-0229	
5815	00-TT-155055	Bail	5815	00-679-8637	
5815	00-TT-155067	Cable	5995	00-710-4294	
5815	00-TT-155091	Lever	5815	00-679-8642	
5815	00-TT-155497	Type Box Assembly	5815	66-026-9415	
5815	00-TT-155549	Shield	5970	00-705-9870	
5815	00-TT-155612	Ring Bearing	5815	00-971-1708	
5815	00-TT-155724	Insulator	5970	00-705-9869	
5815	00-TT-155751	Sleeve	5970	00-805-6801	
5815	00-TT-155755	Sleeve	5815	00-325-1876	
5815	00-TT-155995	Screw	5305	00-721-4605	
5815	00-TT-156019	Washer Non-metallic	5330	00-729-6534	
5815	00-TT-156769	Name Plate	5815	00-591-6726	
5815	00-TT-156778	Pin	5315	00-779-9554	
5815	00-TT-156817	Pin	5315	00-767-5121	
5815	00-TT-156880	Strap	5315	00-325-1902	
5815	00-TT-156881	Strap	5315	00-325-1903	
5815	00-TT-157070	Switch	5315	00-971-1733	

Old Identification Number			New Identification Number		
Group Class	Catalogue Number	Item Name	Group Class	Catalogue Number	Item Name
5815	00-TT-157323	Key Lever	5315	00-970-9055	
5815	00-TT-157325	Key Lever	5315	00-970-8926	
5815	00-TT-157726	Type Pallet	5315	00-971-5079	
5815	00-TT-158046	Bracket	5315	00-675-6408	
5815	00-TT-158152	Sleeve	5315	00-767-0723	
5815	00-TT-158153	Link	5315	66-026-9416	
5815	00-TT-158154	Lever	5315	00-767-0725	
5815	00-TT-158202	Switch Box	5930	00-709-0037	
5815	00-TT-158205	Cover	5815	00-325-1968	
5815	00-TT-158264	Cable	5815	66-026-9417	
5815	00-TT-158505	Stud Connection MTG	5815	00-888-0816	
5815	00-TT-158534	Post Guide	5815	00-872-0964	
5815	00-TT-158589	Clamp Cable	5815	00-852-2776	
5815	00-TT-158673	Bracket	5815	00-858-2799	
5815	00-TT-158687	Tape Arm	5815	00-858-2806	
5815	00-TT-158898	Sleeve Cam	5815	00-858-2867	
5815	00-TT-159114	Tool Kit Tape	5815	00-858-2837	
5815	00-TT-159520	Post	5815	66-026-9418	
5815	00-TT-159542	Connector	5935	00-874-5665	
5815	00-TT-159592	Cable	6250	00-886-4658	
5815	00-TT-159641	Cable Assembly	5815	00-858-5867	
5815	00-TT-159703	Key Top	5815	66-026-9419	
5815	00-TT-159928	Cable Assembly	5815	00-858-2876	
5815	00-TT-159945	Washer	5815	00-858-2867	
5815	00-TT-159953	Plate	5815	00-771-9513	
5815	00-TT-159993	Bracket	5815	00-739-9787	
5815	00-TT-160343	Shaft	5815	66-026-9420	
5815	00-TT-160347	Post	5815	00-858-2933	
5815	00-TT-160370	Switch	5815	00-858-2945	
6240	00-TT-160371	Light	5815	00-858-2946	
6240	00-TT-160426	Relay Motor Control	5815	00-858-2960	
6240	00-TT-160645	Plate Tape Guide	5815	00-858-2966	
6240	00-TT-160646	Pin	5815	00-874-0068	
6240	00-TT-160649	Washer Flat	5310	66-026-9421	
6240	00-TT-160667	Bumper	5815	00-859-1783	
6240	00-TT-160670	Bracket	5815	00-858-2970	
6240	00-TT-161104	Pinion	5815	00-943-2664	
6240	00-TT-161113	Washer Felt	5815	00-976-0680	
6240	00-TT-161447	Pinion	5815	66-026-9423	
5815	00-TT-161215	Lamp Glow	6240	66-026-9422	
5815	00-TT-161307	Post	5815	00-858-3014	
5815	00-TT-161439	Wick	5815	00-729-6147	
5815	00-TT-161504	Plate	5815	66-026-9424	
5815	00-TT-161593	Cable Assembly	5995	00-916-1729	
5815	00-TT-161654	Gear Set	5815	00-858-3030	
5815	00-TT-161656	Gear Set	5815	00-858-3031	
5815	00-TT-161806	Belt	3030	00-766-1050	
5815	00-TT-161821	Cable Assembly	5995	66-026-9425	
5815	00-TT-161885	Cable Assembly	5996	66-026-9426	
5815	00-TT-162183	Bushing	5815	00-923-7346	

Old Identification Number		Item Name	New Identification Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
5815	00-TT-162228	Insulator	5970	66-026-9428
5815	00-TT-162283	Plate	5815	66-026-9429
5815	00-TT-162284	Insulator	5970	66-026-9430
5815	00-TT-162470	Adaptor Plate	5815	00-823-1415
5815	00-TT-16330	Gear	5815	00-066-6672
5815	00-TT-163113	Washer	5310	00-754-4191
5815	00-TT-163587	Bracket	5815	66-026-9432
5815	00-TT-163299	Gear	5815	66-026-9431
5815	00-TT-163681	Type Wheel Assembly	5815	66-026-9433
5815	00-TT-164479	Terminal	5815	00-930-6335
5815	00-TT-164586	Type Box Assembly	5815	66-026-9434
5815	00-TT-166514	Guide	5815	66-026-9435
5815	00-TT-164654	Gear Set	5815	00-858-3030
5815	00-TT-172060	Spring	5815	00-325-2204
5815	00-TT-172966	Plate	5815	66-026-9436
5815	00-TT-173130	Pawl	5815	66-026-9437
5815	00-TT-173166	Fuse Panel	5815	66-026-9438
5815	00-TT-173400	Modification Kit	5815	66-026-9448
5815	00-TT-173405	Filter Radio Frequency	5915	66-024-9439
5815	00-TT-173518	Modification Kit	5815	66-026-9440
5815	00-TT-173645	Coupling	5815	00-874-0660
5815	00-TT-173921	Plate	5815	00-325-2314
5815	00-TT-174422	Filter	5915	00-594-9151
5815	00-TT-174457	Modification Kit	5815	00-991-0539
5815	00-TT-178489	Clip	5815	00-992-4095
5815	00-TT-178902	Guide Taper	5815	66-026-9441
5815	00-TT-179965	Modification Kit	5815	66-026-9442
5815	00-TT-180587	Adjuster Tool	5815	66-026-9443
5815	00-TT-180588	Adjuster Tool	5815	00-026-9444
5815	00-TT-180993	Adjuster Tool	5815	66-026-9445
5815	00-TT-182697	Extractor	5815	00-685-6339
5815	00-TT-194853	Injector	5915	00-055-6959
5815	00-TT-195154	Modification Kit	5815	66-026-9449
5815	00-TT-195415	Modification Kit	5815	00-942-0980
5815	00-TT-199774	Plate	5815	66-026-9446
5815	00-TT-111062	Terminal	5815	00-679-8306

2. Navy Order 118 of 1967 is to be amended as follows—

Page No.	Old Ident. No.	Amendment
18	159291	New Catalogue No. 00-659-3111
26	125861	New Catalogue No. 00-160-0031
48	152127	New Catalogue No. 00-TT152127
64	154427	New Catalogue No. 00-TT154427
77	16149	Should read 161149
78	161654	New Catalogue No. 00-TT161654

3. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual), Article 1812.

(DSAP 519/58/257)

(Navy Orders 64 and 118 of 1967)





AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
30th November, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

P. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

507—RAN School of Aviation Medicine—Functions and Courses of Instruction

The RAN School of Aviation Medicine, short title SAVMED, is established at RAN Air Station, Nowra, to carry out the following functions—

- (a) The instruction of Medical Officers in the principles and practice of medicine as applied to the special requirements of the Fleet Air Arm.
- (b) The instruction of officers and sailors in such medical subjects as may be necessary for the proper performance of their duties connected with aviation.
- (c) To apply medical knowledge to the solution of aviation problems in the Naval service.
- (d) High altitude indoctrination of Naval aircrew.
- (e) Diagnostic decompression tests as directed.
- (f) Research.

2. **Co-operation with Safety Equipment and Survival Training School**—The school works in close co-operation with the Safety Equipment and Survival Training School. One officer from the School of Aviation Medicine acts as Safety Equipment Medical Officer to both schools.

3. **Special Authority and Requirements**—The Commanding Officer, RANAS Nowra, has authority to correspond direct with the following on routine and technical matters affecting Aviation Medicine—

- Medical Director-General
- Director Naval Air Policy
- Director of Air Stores
- Director of Victualling
- also with—RN Air Medical School Gosport, Hants
(keeping Medical Director-General informed).

4. The Senior Medical Officer of the RAN School of Aviation Medicine is to maintain a close liaison with the RAAF Institute of Aviation Medicine, Point Cook.

5. **Courses for Medical Officers**—It is the intention that at least one Medical Officer in Aircraft Carriers and at Naval Air Stations should have completed a recognised course in Naval Aviation Medicine.

6. The course of Aviation Medicine will cover the following broad outlines in the syllabus—

- (a) The physiology of high altitude flying.
- (b) Acceleration and "G" forces.
- (c) Sub-, Trans- and Supersonic speed escape systems.
- (d) Day and night vision.

- (e) Clothing and equipment, including oxygen systems and pressure suits.
- (f) Aircrew welfare and comfort, including aircrew fatigue.
- (g) Survival.
- (h) Examination for fitness for flying.
- (j) Accident prevention.
- (k) Psychology of flying.
- (l) Aviation Pathology.

7. **Courses for General List Officers**—A special short course of three days duration for Commanding Officers, Commanders (Air), Air Group Commanders and Squadron Commanders is given in conjunction with the Safety Equipment and Survival Training School in matters appertaining to the duties of these officers in Aviation Medicine and Safety Equipment.

8. **Courses for Sailors**—Courses of 26 weeks duration are conducted to qualify sailors of the Sick Berth Branch in the Aviation Medicine specialisation.

9. **Investigations and New Problems**—Problems requiring investigation or new methods to be tried by the research and development section of the school, will be referred to the School of Aviation Medicine by the Naval Board. Matters raised by units operating aircraft are to be communicated to the Naval Board through the appropriate Administrative Authority.

10. Matters brought to light by the School of Aviation Medicine either from their own researches or from liaison with other Institutes of Aviation or Aerospace Medicine are to be reported by the School of Aviation Medicine to the Naval Board through Commanding Officer, NAS Nowra, with a copy to Medical Director-General.

11. The priority in which investigations on the aforementioned subjects are to be undertaken will be arranged by Director Naval Air Policy after consultation with the Medical Director-General.

(MDG 2/51/64)

Section 2

PERSONNEL

UNCLASSIFIED

508—Child Education Allowance—Members Serving Oversea

The maximum payments that may be made per academic year to members in receipt of Category "A" or Category "B" rates of Child Education Allowance in accordance with NPI 105/303 have been increased from \$A975 to \$A1,055 and from \$A440 to \$A505 respectively, with effect from 1st January, 1967.

2. Eligible members should claim adjustments from Navy Office. Claims should be accompanied by evidence of expenditure.

3. NPI 105/303(4) should be noted pending amendment.

(HPB 252/10/9)

UNCLASSIFIED

509—Education Allowance—Members Serving in Australia

The maximum rates of Category "A" and Category "B" rates of Education Allowance payable per academic year in accordance with NPI 122 have been increased to the amounts and with effect from the dates shown hereunder—

(a) *Category "A"*—

(i) With effect from 1st January, 1966, increased from \$860 to \$975; and

(ii) With effect from 1st January, 1967, increased from \$975 to \$1,055.

(b) *Category "B"*—

With effect from 1st January, 1967, increased from \$440 to \$505.

2. The increased rates of Education Allowance cannot be paid until Statutory Cover is obtained to amendment of the Naval Financial Regulations. Advice will be promulgated as soon as the necessary Statutory Authority has been obtained.

(HPB 252/10/2)

UNCLASSIFIED

510—Oversea Outfit Allowance—Members Posted for Duty in Certain Areas

The provisions governing payment of Oversea Outfit Allowance to members posted for duty in Malaya, Singapore, Hong Kong and the United Kingdom as promulgated in NPI 177/1 (7), 177/2 (1) and 177/3 are no longer applicable.

2. Members posted for short term duty to any overseas country are paid Oversea Outfit Allowance under the provisions of NPI 177/1. Oversea Outfit Allowance is paid to members posted for intermediate or long term duty to Singapore and Malaysia or United Kingdom under NPI 105/19 or 105/216 respectively.

3. Instructions 177/1 (7), 177/2 (1) and 177/3 of the Naval Pay Instructions should be noted pending amendment.

(HPB 252/10/7)

UNCLASSIFIED

511—Uniform—Naval Officers—No. 12W Tropical White Long Dress

A new Dress for Naval Officers has been introduced as follows—

<i>No. and Title</i>	.. ..	No. 12W. Tropical White Long Dress.
<i>Description</i>	.. ..	White tropical shirt (or for Officers of Commanders rank and above, at their option, as appropriate—White bush jacket).
		Shoulder straps.
		White trousers.
		Cap.
		White shoes (black shoes or boots may be worn on shore in bad weather).
<i>Where and When to be Worn</i>	.. ..	On RAN ships assigned for Vietnam service when in USN controlled Ports on non-ceremonial occasions at the discretion of the Senior Officer present.

2. The trousers worn with this Dress should be of the self-supporting type with side- straps; a belt should not be worn.

(HPB 930/51/177)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

512—Survival at Sea—Liferaft and Helicopter Winching Demonstrations for Ships in Jervis Bay

Experience gained in giving liferaft and helicopter winching demonstrations, as prescribed by RI Article 2909, Paragraph 3, has enabled a standard demonstration to be evolved for ships in Jervis Bay.

Demonstration Team

2. The helicopter winching demonstration will be preceded by a forty minute lecture on board the ship by a team consisting of the Safety Equipment and Survival Training Officer, HMAS ALBATROSS, one CASE or POASE, one LASE and one NASE. The team will demonstrate the liferaft and its equipment and discuss the various techniques and equipments used in helicopter winching. Three volunteers from the ships company will be briefed to enter the liferaft to be winched.

Equipment Demonstrated

3. Space is to be made available on board to display the following equipment, which will be provided by the team—

- (a) One raft of the type carried in the ship;
- (b) One helicopter winch strop;
- (c) One double lift harness;
- (d) One USN triple saddle seat;
- (e) Two Pattern 50N lifejackets;
- (f) One Pattern 3E automatic inflation lifejacket;
- (g) Two Mark 13 Mod. 0 Night and Day Flares;
- (h) One Genrus Flare Kit;
- (j) One diving wet suit;
- (k) One SARBE Mark 3 (when introduced).

Helicopter Winching Demonstration

4. Winching from the liferaft will be carried out by one of two methods, depending on the wind—

- (a) In light or no wind conditions the raft will be towed to a position approximately 75 yards abeam the forecastle port side and released. Two lifts will be made and the raft then towed back into position for two more lifts.
- (b) In medium winds the raft will be towed from aft to forward up the port side of the ship, approximately 75 yards out. The towing boat will keep the raft in tow while two lifts are made on each of two runs.

5. After being winched from the raft the volunteers will be winched down to the normal helicopter personnel transfer position; in the case of minesweepers and smaller vessels they will be winched into the towing boat before being returned to the ship.

6. During the demonstration, which lasts about 20 minutes, the SESTO will give an explanatory commentary.

7. The towing boat will normally be provided by HMAS CRESWELL, but on occasions ships may be asked to provide this facility.

Notice Required

8. One weeks notice is required to programme a demonstration. Application should be made by signal or, preferably, by letter to the Commanding Officer, HMAS ALBATROSS.

(CONS 1624/2/31)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

513—Accounting for Bathythermograph Winches and Spares

In accordance with Navy Order 366 of 1967, responsibility for accounting for Bathythermograph Winches and spares was required to be divided between the Marine Engineer Officer and the Weapon Electrical Engineer Officer.

2. It has been decided that responsibility for the winches and all associated spare gear, whether mechanical or electrical, more appropriately belongs to the Weapon Electrical Engineer Officer, however, and the items are to be accounted for as follows—

Winches, bathythermograph—in Electrical Officers List of Equipment, etc., Part 1.

Spares for above—in Electrical Spare Gear Account.

3. Navy Order 366 of 1967 is to be amended accordingly.

(DSAP 518/52/359)

(Navy Order 366 of 1967)

UNCLASSIFIED

514—Alteration and Addition Item—DDG Destroyers

The following Alteration and Addition Item is approved to be carried out in DDG Destroyers—

Class List Item No. 4 (Ex. TDL "F").

- (a) *Item:* To provide scrambling nets and necessary means of attachment at Frames 107 to 113, port and starboard on 1 Deck. Installation to be similar to that in Daring Class Destroyers.
- (b) *References:* (i) HMAS PERTH's Form AS 1182 TDL "F" dated 1st March, 1967, forwarded under cover of FOCAF Memorandum AF 1212/44/5 dated 14th March, 1967.
(ii) HMAS PERTH's signal TDG 030030Z July, 1967.
(iii) FOCAF signal DTG 030526Z July, 1967.
(iv) ACNB signal DTG 050659Z July, 1967.

(CNTS 1215/60/28)

UNCLASSIFIED

515—Alteration and Addition Item—HMA Ships YARRA and PARRAMATTA

The following Alteration and Addition Item is approved to be carried out in HMA Ships YARRA and PARRAMATTA—

Class List Item No. 338 (Ex. TDL "QP").

- (a) *Item:* To convert the sailors heads in IH forward flat to an officers shower. Drainage arrangements, hot and cold water lines are already fitted passing through the compartment.
- (b) *Reference:* HMAS PARRAMATTA's Form AS 1182 TDL "QP" dated 21st January, 1967, forwarded under cover of FOCAF Memorandum AF 1212/43/13 dated 4th April, 1967.

(CNTS 1224/68/592)

UNCLASSIFIED

516—Alteration and Addition Item—HMAS PARRAMATTA

The following Alteration and Addition Item is approved to be carried out in HMAS PARRAMATTA—

Class List Item No. 336 (Ex. TDL "QK").

- (a) *Item:*
- (i) Enclose legs of electric range and fit flap at back of range to prevent ingress of grease, etc.
 - (ii) Replace DAR and centre work bench with a refrigerated cabinet and wash basin as in HMAS STUART and DERWENT.
 - (iii) Remove servery bench and fit a heated plate dispenser as in HMAS STUART and DERWENT. Fit bench in space vacated by I in No. Electric Stockpot (ACNB signal 280729 October, 1966, refers) to provide additional serving space.
 - (iv) Rotate baking oven through 90° and resite deep fryer between electric range and baking oven.
 - (v) Remove large dough bins and extend working bench to include mixing bowl stowage and cupboard space as in HMAS STUART and DERWENT.
- (b) *Reference:* HMAS PARRAMATTA's Form AS 1182 TDL "QK" dated 10th January, 1967, forwarded under cover of FOCAF Memorandum AF 1212/43/8 dated 19th January, 1967.

(CNTS 1224/68/582)

UNCLASSIFIED

517—Alteration and Addition Item—HMAS SYDNEY

The following Alteration and Addition Item is approved to be carried out in HMAS SYDNEY—

Class List Item No. 346 (Ex. TDL "AQ").

- (a) *Item:* Installation in main galley of large capacity griller to augment present inadequate shallow frying facilities which are utilised for grilling. Removal of athwartship stowage locker, which is not required, to provide site for additional griller.
- (b) *Reference:* HMAS SYDNEY's Form AS 1182 TDL "AQ" dated the 2nd March, 1967, forwarded under cover of FOCAF Memorandum AF 1212/55/20 dated the 9th March, 1967.

(CNTS 1213/53/195)

UNCLASSIFIED

518—Alteration and Addition Item—HMAS YARRA

The following Alteration and Addition Item is approved to be carried out in HMAS YARRA—

Class List Item No. 332 (Ex. TDL "NFCZ").

- (a) *Item:* To fit a "Dawson Deluge" dishwashing machine in the ships company scullery. Compensating weight of 900 lb. at No. 2 Deck level or 350 lb. at No. 1 Deck level is required.
- (b) Item No. 330 (Ex. TDL "NFDY") has been approved as compensating weight for the above item and is to be completed before the dishwashing machine may be installed.
- (c) *References:*
- (i) FOCAF Report of Inspection of HMAS YARRA on 30th April, 1965.
 - (ii) Navy Office Memorandum 1227/67/316 dated 12th January, 1966.

(CNTS 1224/67/316)

UNCLASSIFIED

519—Alteration and Addition Item—Type 12 Destroyer Escorts

The following Alteration and Addition Item is approved to be carried out in Type 12 Destroyer Escorts—

Class List Item No. 330 (Ex. TDL "NFDY").

- (a) *Item:* To replace the outboard two fathoms of oversize cable and associated gear with standard size items.
- (b) Weights, both on and off, are to be reported by the ship.
- (c) The weight saving achieved in HMAS YARRA should be utilised to provide the necessary weight compensation required for proposed Item No. 332 (Ex. TDL "NFCZ") and is to be landed before Item No. 332 may be carried out.
- (d) *References:*
- (i) Navy Office Memorandum 400/2/592 dated 25th March, 1966. (Notal.)
 - (ii) HMAS YARRA's 019/7/1 dated 14th October, 1966, forwarded under cover of FOCAF Memorandum AF 1224/74/5 dated 19th October, 1966.
 - (iii) Navy Office Memoranda 400/2/592 dated 14th November and 5th December, 1966, respectively. (Notal.)
 - (iv) Navy Office Memorandum 400/2/592 dated 6th March, 1967.
 - (v) FOCAF Memorandum AF 1224/74/5 dated 23rd May, 1967.

(CNTS 400/202/640)

UNCLASSIFIED

520—Alteration and Addition Item—Type 12 Escort Ships

The following Alteration and Addition Item is approved to be carried out in HMA Ships YARRA and PARRAMATTA and, subject to the lifting of the weight moratorium, in HMA Ships STUART and DERWENT—

Class List Item No. 331 (Ex. TDL "NFDO").

- (a) *Item:* To provide individual fused supplies (1-amp. fuse links) to the follow-up amplifiers in No. 2 and No. 3 Amplifier Racks controlling 3 in No. Compass Re-transmission Units by inserting a fuse-panel AP 25018 between JB 5 and the 3 in No. CRU isolating switches in the Gyro Compass room.
- (b) Weight compensation of 10 lb. at No. 3 Deck must be surrendered before this item may be implemented.
- (c) *Reference:* AFO "A" Series No. A 15/65, Item No. 346.

(CNTS 1205/258/47)

UNCLASSIFIED

521—Ammunition—Demolition Stores—637120 Detonators, Electric No. 82 Mark N2—Withdrawal of Lot 1, Filled ICI/A 1960

- Information* In view of unsatisfactory results of Annual Inspection/Proof, Lot 1 Filled ICI/A 1960 of the above detonators is to be withdrawn from service.
2. *Action by HMA Ships* Return to nearest RAN Armament Depot for exchange at first opportunity.
3. *Safety Category* .. NMER (BR 862), Article 1705 (1), Category (ff), not dangerous but may have a percentage of failures to function.
4. *Action by RANAD* .. Stocks and future receipts to be declared for disposal.

(DAS 715/51/330)

UNCLASSIFIED

522—Departmental Officers Permanent Loan Lists—Transfer of Responsibility for Items

Reports have reached Navy Office that because of the volume of items involved certain Departmental Officers are experiencing difficulty in controlling their Permanent Loan Lists.

2. In order to provide Departmental Officers with some measure of relief in their direct responsibility for such items, it is acceptable for responsibility for custody of items to be transferred to a user of any rank, by means of a signed Form AS 549 (or other receipt) to support the Permanent Loan List, control of which, however, remains at all times the responsibility of the Departmental Officer.

3. ABR 4 will be amended.

(DSAP 1224/72/181)

UNCLASSIFIED

523—Fixed Issuing Prices for Provisions and Victualling Allowances as from 1st October, 1967

The price list for fresh fruit and vegetables which has operated since 1st July, 1967, has been amended.

2. A revised price list, operative from 1st October, 1967, has been distributed to all HMA ships and establishments.

3. Consequent upon the revision of the prices, the following rates of Victualling Allowances per head per day, will apply as from 1st October, 1967—

	<i>Ashore</i>	<i>Afloat</i>
	\$	\$
Messes of 50 or less victualled from separate galley ..	0.78	0.80
All other messes of 300 or less	0.77	0.78
Messes of more than 300	0.75	0.77
Additional for ships of the Strategic Reserve and for ships deployed with the United States Navy in the Far East	—	0.04
Supplementary "Broadside" messing allowance for HMAS ANZAC, DIAMANTINA, DUCHESS and QUEENBOROUGH	—	0.01
HMAS MELVILLE	0.80	—
HMAS TARANGAU	0.82	—
Cadet Midshipmen at RANC	} 0.86	See Paragraph 4
Junior Recruits at Training Establishments		
Apprentices at RANATE		
Australian Sea Cadets attending camps and courses		

4. The allowance of 86 cents per day for Cadet Midshipmen, Junior Recruits, Apprentices and Australian Sea Cadets, is increased to 88 cents per day when victualled on board ships undergoing training and when messed separately.

5. The supplementary "Broadside" messing allowance previously two cents is reduced to one cent per man per day from 1st October, 1967.

6. Navy Order 364 of 1967 is hereby cancelled.

(D of V 903/51/137)

(Navy Order 364 of 1967)

UNCLASSIFIED

524—Patrol Vessels—Accounting for Naval Stores and Machinery and Spares

The procedures to be followed in accounting for naval stores and machinery and spares carried on board patrol vessels are detailed in Navy Order 309 of 1966. Further detailed instructions are contained in this order.

2. Lists of equipment, etc., for patrol vessels are to be distributed as follows—

Original	Director of Supply Administration and Planning (Melbourne).
Duplicate	Superintending Machinery and Spares Officer (Sydney).
Triplicate	Operational base.
Quadruplicate	Maintenance base.

3. Naval stores supplied to operational and maintenance bases are to be accounted for in the normal store accounts of the establishment concerned.

4. Fitted equipments, portable fittings and drawings supplied to operational and maintenance bases are to be accounted for in the Lists of Equipment, etc., at commissioned establishments and in relevant Plant, etc., Accounts at other establishments.

5. Supply of spare gear will be made under the following headings—

(a) *On Board Spares*—Those spares which will actually be carried on board each patrol vessel. These spares are reduced to an absolute minimum to reduce weight.

(b) *Operational Base Spares*—Those spares which would normally be carried in a larger vessel but which cannot be carried in a patrol vessel because of weight and space restrictions. The spares so allocated to each patrol vessel should accompany that vessel to the operational base to which it is deployed.

(c) *Maintenance Base Spares*—Those spares allocated to each maintenance base. Quantities vary according to the number of vessels being maintained.

6. Allowances of spare gear will be promulgated as follows—

On Board and Operational Base Spares—In the patrol vessels combined List of Equipment, etc.

Maintenance Base Spares—In the List of Equipment, etc., in the case of commissioned establishments. Other bases will be advised separately. Forms AS 197 to include the allowances in the Lists of Equipment, etc., will be raised by the Superintending Machinery and Spares Officer.

7. **Accounting for On Board and Operational Base Spares**—Separate Electrical and Engineering Accounts are to be maintained for each vessels outfit of on board and operational base spares on Forms E 55C and E 55R. These ledgers are to be maintained by the appropriate technical staff at the base in the normal manner, as detailed in ABR 4. On board and operational base spares are to be dealt with in one account, the pages being arranged in page and line number sequence.

8. **Accounting for Maintenance Base Spares**—These are to be accounted for as follows—

(a) *Commissioned Establishments*—In the Spare Gear Ledgers.

(b) *Other Bases*—In the store accounts, as appropriate.

9. Stocktaking of equipment and spare gear on board and at the operational base is to be carried out under the supervision of the technical staff at the operational base as detailed in ABR 4, Chapter 16.

10. **Transfer of Patrol Vessels**—When patrol vessels are transferred between operational bases, the vessels' accounts, and spare gear are to be transferred to the new base as follows—

(a) *Inventory Account*—As detailed in ABR 4, Article 1902 (11) and (13).

(b) *List of Equipment, etc., Spare Gear Ledgers and Spare Gear*—On Forms AS 549. Supporting vouchers are also to be transferred.

11. ABR 4, Article 1841B, will be amended.

(DSAP 400/56/68)

(Navy Order 309 of 1966)

RESTRICTED

ANO's 525-530/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
5th December, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

A. Handau

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

525—Australian White Ensign—Revised Regulations

As a result of the introduction of the Australian White Ensign, the Naval Board has approved a change of instructions governing Dressing Ship and the wearing of Battle Ensigns.

2. RI is to be amended as follows—
 - (a) *Article 1232 (7) (b)*—delete "Australian National Flag" and substitute "Australian White Ensign".
 - (b) *Article 1239 (2) and (3)*—delete "Australian National Flag" and substitute "Australian White Ensign".
3. This order is effective on receipt. RI will be amended in due course.

(D of C 37/201/20)

RESTRICTED

526—Captains Ships Book—Security Classification

The security classification of the contents of the Captains Ships Books has been reviewed. The overall classification is SECRET and books are to be handled and stowed in accordance with this classification. The covers and contents of Captains Ships Books at present in use are to be endorsed with the appropriate classification.

2. The following classifications apply—

Captains Ships Book Type "A"—In use in HMA Ships MELBOURNE, SYDNEY, DUCHESS, QUEENBOROUGH, QUIBERON, QUICKMATCH.

Folio

Folio Nos. 1, 4, 5, 8, 13, 14, 15, 16, 19, 20, 24 to 35, 37, 40 and 42	UNCLASSIFIED
Folio Nos. 2, 10, 12, 36, 38 and 39	RESTRICTED
Folio Nos. 3, 6, 7, 9, 17, 18, 21, 22, 23 and 41	CONFIDENTIAL
Folio No. 11	SECRET

Captains Ships Book Type "B"—In use in HMA Ships CURLEW, GULL, HAWK, IBIS, SNIPE, TEAL.

Folio

Folio Nos. 1A, 1B, 2, 6, 7, 8, 10, 11, 12, 15, 16, 17, 19 and 20	UNCLASSIFIED
Folio Nos. 5, 21, 22 and 23	RESTRICTED
Folio Nos. 1, 3, 4, 9, 13, 14, 18 and 24	CONFIDENTIAL

Captains Ships Book Type "C"—In use in HMA Ships ANZAC, ARUNTA, BARCOO, CASTLEMAINE, CULGOA, DERWENT, DIAMANTINA, GASCOYNE, HOBART, KANGAROO, KARANG, KIMBLA, KOALA, KOOKABURRA, MORESBY, PARRAMATTA, SPRIGHTLY, STUART, SUPPLY, TOBRUK, VAMPIRE, VENDETTA, YARRA, BRISBANE, PERTH.

Folio

Folio Nos. 1, 6, 7, 8, 11, 13, 16, 17, 18, 19, 24 and 25	UNCLASSIFIED
Folio Nos. 4, 20, 21 and 27	RESTRICTED
Folio Nos. 2, 3, 5, 9, 10, 12, 14, 15, 22 and 26	CONFIDENTIAL
Folio No. 23	SECRET

3. The above classifications are those which would normally apply, but information contained in each folio is to be classified according to content. Similarly, information contained in the Captains Ships Book Supplement is to be classified according to content.

4. A new format of Captains Ships Book (KC 100) and Supplement (KC 101) will be issued, when printed, to HMA Ships listed below—

BRISBANE	MORESBY	STUART	TORRENS
DERWENT	PARRAMATTA	SUPPLY	VAMPIRE
HOBART	PERTH	SWAN	VENDETTA
MELBOURNE	STALWART	SYDNEY	YARRA.

(DNI 464/251/74)

UNCLASSIFIED

527—Safety—Returning Libertymen

A recent fatal accident occurred when a sailor returning from short leave fell while endeavouring to climb between the sweepdecks of two minesweepers. The inboard vessel was unmanned, while the outboard vessel was secured with the bows well bowsed in, leaving a gap aft between the vessels. Both sets of bulwark doors were open. There was no watchkeeper on deck.

2. The attention of Commanding Officers is drawn to Navy Order 241 of 1967. In addition, when returning libertymen must cross unmanned ships, consideration is to be given to the marking and lighting of the route, and to the roping-off of ladders not on this route.

3. In minesweepers and similar vessels fitted with bulwark doors, these doors are to be shut when not in use. If this is not possible, temporary guardrails are to be fitted.

(CONS 177/1/84)

(Navy Order 241 of 1967)

Section 2

PERSONNEL

UNCLASSIFIED

528—Eastern Orthodox Denomination Holy Days, 1968

Subject to the exigencies of the Service, leave of absence may be granted to Royal Australian Naval personnel belonging to the Eastern Orthodox Denomination who may desire to observe the following Holy Days in 1968, in lieu of those observed by the other Christian Denominations—

Christmas Day	..	..	..	..	7th January
Good Friday	..	..	..	..	19th April
Easter Sunday	..	..	..	..	21st April
Easter Monday	..	..	..	..	22nd April

(HPB 323/1/24)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

529—RAN College Timetable—1968

The following timetable for the Royal Australian Naval College, 1968, has been approved by the Naval Board—

Monday, 15th January	..	} Summer Assembly of Secondary Schoolboys.
Monday, 22nd January	..	
Monday, 22nd January	..	New Entry Cadet Midshipmen join.
Friday, 26th January	..	Remaining cadets return from leave.
Monday, 29th January	..	Academic Term begins.
Monday, 4th March	..	Degree courses begin.
Friday, 29th March	..	} Mid-term long weekend.
Monday, 1st April	..	
Monday, 8th April	..	Senior Year cadets join HMAS ANZAC.
Friday, 10th May	..	Term ends. Cadets proceed on leave.
Friday, 24th May	..	Senior Entry Cadets of 1968 return from leave.
Friday, 31st May	..	Remaining Cadets return from leave.
Monday, 3rd June	..	Academic Term begins.
Friday, 14th June	..	Senior Year Cadets return from sea.
Friday, 12th July	..	Graduation Day. Graduating Midshipmen leave RANC.
Saturday, 13th July	..	} Mid-term long weekend.
Tuesday, 16th July	..	
Friday, 23rd August	..	Term ends. Cadets proceed on leave.

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- Sunday, 8th September .. Cadets return from leave.
- Monday, 9th September .. Academic Term begins.
- Friday, 18th October .. } Mid-term long weekend.
- Monday, 21st October .. }
- Friday, 6th December .. Academic Year ends.
- Friday, 11th December .. Cadets proceed on leave.

(DOA 310/1/69)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

530—Alteration and Addition Item—HMAS QUEENBOROUGH

The following Alteration and Addition Item is approved to be carried out in HMAS QUEENBOROUGH.

Class List Item No. 613 (Ex TDL "NQBB").

- (a) *Item:* Remove Moorwood Atmospheric steam oven (Order No. 4816 Serial No. 722) from main galley and replace with steam pressure oven operating at an internal pressure of 5 lb./square inch in accordance with Navy Order 236 of 1967.
- (b) *Reference:* HMAS QUEENBOROUGH's Form AS 1182 TDL "NQBB" dated 10th July, 1967, forwarded under cover of FOCAF Memorandum 1212/45/8 dated 28th July, 1967.

(CNTS 1224/64/178)

(Navy Order 236 of 1967)

ANO 531/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
5th December, 1967.

The enclosed order is promulgated for information, guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

531—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During August, 1967

The magazines, pamphlets and amendments to publications, etc., contained in the Appendix to this order have been distributed to ships and services during August, 1967.

2. Article 2517 (6) of ABR 4 is relevant.

3. Copies of "P" Series Amendments referred to in the Appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX
BR AMENDMENTS

BR No.	Amendment No.
MBR ATP 25	Change No. 2
BR 100	Change No. 4
BR 122 (1A)	Rec. Suppt. No. 4
BR 149A (1)	Amendment No. 4
	Information Leaflet No. 1 dated August, 1966
BR 217 (3C)	Change No. 4
BR 291	Change No. 2
BR 333 (2)	Amendment No. 73
	Amendment No. 74
BR 575 (4) C	Change No. 1
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BR 3317 (1)	Suppt. No. 2 (1966)
BR 3330	Change No. 5
BR 3605	Change No. 11
	Change No. 12
ABR 5020	Change No. 4 dated May, 1967
MBR 8020	Amendment dated 12.4.1967

BOOKS, MAGAZINES AND PAMPHLETS

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Aircraft Vol. 46 No. 11	August, 1967
Aeroplane	31.5.1967
Aeroplane	7.6.1967
Aeroplane	14.6.1967
Approach	February, 1967
Approach	April, 1967
Approach	June, 1967
Bulletin OPNAV 94-P2 No. 95	April, 1967
Command Technical News Vol. 16 No. 4	April, 1967
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Electrical Design News Vol. 12 No. 7	June, 1967
Flight Vol. 91 No. 3038	1.6.1967
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Navy Management Reviews Vol. 11 Nos. 10 and 11	October–November, 1966
Navy Management Reviews Vol. 11 No. 12	December, 1966
Navy Management Reviews Vol. 12 No. 1	January, 1967
Navy Management Reviews Vol. 11 No. 1	January, 1966

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Publication	Date
OP 2165 Vol. 1	Change No. 2 dated 15.5.1967
OP 2213	Change No. 9 dated May, 1967
OP 2665 IPB Vol. 5	Change No. 5 dated March, 1967
OP 2665 Suppt. Vol. 1	Change No. 2 dated 15.4.1967

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OP 2665 IPB Vol. 5	Changes No. 1–No. 4
OP 2585 Vol. 5	Change No. 1 dated 15.2.1966
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109A-0002-1	AL 129 and 130
116G-0601-1 Part 1	AL 22
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119A-0600-1	AL 79, 80, 81 and 82
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1086 Book 13 (2nd Edition)	AL 241
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1275A Vol. 1 Section 17	AL 65 (July, 1966)
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1275B Vol. 2	(AL 161)-J 49 (12.10.66) (AL 162)-J 50 (12.10.66)
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1355C Vol. 4 Part 6 (2nd Edition)	AL 7 (March, 1967)

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1492A Vol. 1	AIL 1/67 (March, 1967)
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1641P Vols. 1 and 5 Part 2	AL 75 and 76 (January, 1967), 77 (January, 1967), 78 (January, 1967) and 79 (March, 1967)
1661E Vol. 1 (2nd Edition)	AL 157
1664C Vol. 2 Part 1	AL (RAN) 1
1664D (2nd Edition) Vol. 1 Parts 1 and 3	AL 79 (September, 1966)
1664D Vol. 5 (3rd Edition)	AL 2 and 3
1664E Vols. 1 and 5	AL 42
1803D Vol. 1 Book 1	AL 97 (February, 1967)
1803D Vol. 2 Part 2	AL 265
1803E Vol. 1	AL 186 (February, 1967)
1803E Vol. 2 Part 2	AL 95
1803U Vol. 1 Book 1	AL 27
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2234E and G Vol. 2	(AL 66)-C 8
2240A Vols. 1 and 6 Book 4	AL 30
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2535F Vol. 2	(AL 7)-B 3 (AL 9)-B 5 (4.8.66) (AL 29)-B 18
2538Q Vol. 2	AL 84
2802A Vol. 1 (2nd Edition) Parts 1 and 3	(AL 24)-B 17 (17.4.67)
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2892F Vol. 2	AL 8
2892F Vol. 3 (3rd Edition)	AL 41 (January, 1967)
2897R Vol. 1 (2nd Edition) Book 1	AL 16
3042A Book 4	AL 30 (January, 1967)
4117B Vols. 1 and 6 Book 1	AL 36
4121B and C Vol. 1	AL 17
4288 Vol. 4 Part 6 (RAN)	AL 32
4303B Vol. 1 Book 2	AL 23 (February, 1967)
4343B Vol. 3 Part 1 (Naval)	AL 181
4343C Vol. 1 Book 2	AL 76 (July, 1966)
4343X Vol. 1 Book 1	(AL 213)-D 12
4361G Vol. 2	AL (RAN) 2
4411A Vol. 2	AL 160
4471A Vol. 1 Part 2 Book 2	AL 13 (May, 1966)
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AP (RAN) 8 Vol. 5 FS Book 2	AL 61 (May, 1967) and 62 (May, 1967)
AP (RAN) 8 Vol. 6 Part 2	AL 55
AP (RAN) 8 Vol. 6 Part 3	AIL (RAN) 56 (April, 1967) AIL (RAN) 57 (April, 1967) AIL (RAN) 58 (May, 1967) AIL (RAN) 59 AIL (RAN) 60 AIL (RAN) 61 AIL (RAN) 62 AIL (RAN) 63 AIL (RAN) 64
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AP (RAN) 9 Vol. 6	AIL (RAN) 3 AIL (RAN) 4
AP (RAN) 9A Vol. 6 Part 4A	AL 35 (June, 1967)
AP (RAN) 9AB Vol. 2	Transmittal Letter No. 57 (June, 1967)
AP (RAN) 9B Vol. 1	AL 6 (9.5.67) and 7 (June, 1967)
AP (RAN) 9B Vol. 6 Part 1	AL 4 (May, 1967) and 5 (June, 1967)
AP (RAN) 10 Vol. 2	Modification Leaflet No. 855 Modification Leaflet No. 894 Modification Leaflet No. 901 Modification Leaflet No. 910 Modification Leaflet No. 5054 Mod. No. 683 (Alt. 3) Scout Mod. No. 846 (Issue 1) Scout Mod. No. 924 (Issue 1) Scout

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AP (RAN) 10 Crew Notes	AL 9
AP (RAN) 19 Vol. 2 Book 1	AL 17 (June, 1967) (for distribution with MWO 55-1520-208-34/16) AL 18 and 19
AP (RAN) 19 Vol. 3 Book 2	AL 2 (June, 1967)
AP (RAN) 19 Vol. 3 Book 3	AL 2 (June, 1967)
AP (RAN) 19 Vol. 5 Book 2	AL 39 and 40
AP (RAN) 101	AL 130 (July, 1967) and 131 (July, 1967)
AP (RAN) 107	AL 1 and 2
RAN Form A 12	AL 11
DCA Aeronautical Information Publication East	MAP (AL 29) (1.5.67)
DCA Aeronautical Information Publication Cat. A and C	MAP (AL 29) (1.5.67) RAC/2 (AL 85) (15.6.67)
DCA Aeronautical Information Circular	20/67 (1.7.67)
DCA Air Navigation Orders Section 101.21	Issue 1
DCA Air Navigation Orders Part 105 ..	(15.6.67)
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DCA Airways Operations Instructions Vol. 3 (1st Edition)	AL 7 (1.7.67)
Aviation Safety Digest No. 50	May, 1967
DCA NOTAM	9.67 (20.6.67)
RAAF Notices to Airmen Series "A" No. 22	(1.3.67 to 31.5.67)
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Standardisation Design Memoranda ..	No. 131 Issue 3 No. 233 Issue 4 No. 259 Issue 3 No. 282 Issue 2 No. 381 Issue 1
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Nimbus 500 Series Service Bulletins ..	Transmittal Letter No. 48
AAP No. 2 Table of Contents (17th Edition)	Sub AL 64 (AL 40172) (June, 1967) Sub AL 65 (AL 40978) (July, 1967) Sub AL 66 (AL 41289) (July, 1967) Sub AL 6 (AL 40153) (June, 1967)
AAP No. 2 GCC Group E Section 7B (12th Edition)	Sub AL 5 (AL 40955) (June, 1967)
AAP No. 2 GCC Group I Section 15D (5th Edition)	Sub AL 9 (AL 41346) (July 1967)
AAP No. 2 GCC Group K Section 4 (18th Edition)	Sub AL 7 (AL 40372) (May, 1967)
AAP No. 2 GCC Group T Section 32C (13th Edition)	Sub AL 5 (AL 40608) (June, 1967)
AAP No. 2 GCC 3825 (3rd Edition) ..	Sub AL 10 (AL 40694) (June, 1967)
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AAP No. 2 GCC 5305 (6th Edition) ..	Sub AL 9 (AL 41737) (July, 1967)
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AAP No. 2 GCC 5960 (7th Edition) ..	Erratum to Sub AL 33 (AL 39777) Sub AL 34 (AL 41751) (July, 1967)
AAP No. 2 GCC 6730 (4th Edition) ..	Sub AL 7 (AL 40484) (June, 1967)
AAP 28	AL 9, 10 and 11
AAP 316	AL 155 (11.4.67)
AAP 702.1	AL 183
AAP 702.1 Book 1 Part 1	AL 184
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AAP 711.54 Vol. 2 Parts 1 and 2	AL 65
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AAP 742.00 Vol. 2 Parts 1 and 2	AL 71 (11.7.67)
AAP 751.0 Vol. 2 Parts 1 and 2	AL 33 (18.4.66) and 37 (18.10.66)
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(D of V 465/57/674)

Register

ANO's 532-541/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
11th December, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

532—Fourth Submarine Squadron of the RAN

Navy Order 358 of 1967 is to be amended as follows—

Paragraph 1—

delete existing address for HMAS PLATYPUS and *insert* the following in lieu—

HMAS PLATYPUS,
North Sydney,
New South Wales 2060.

(DSMP 2/204/56)

(Navy Order 358 of 1967)

UNCLASSIFIED

533—Interdepartmental Oceanographic Meetings

In recent months problems arising out of the expanding interest in oceanography have been examined at Interdepartmental meetings between representatives of the Department of National Development, Department of the Navy and CSIRO.

2. The outcome of these meetings is general agreement that there is a need for a national body to foster oceanography and that the aim should be the establishment of—

- (a) a high level advisory body representing governmental organisations with significant interests in oceanography; suggested title "National Advisory Committee on Oceanography" (NACO); and
- (b) a supporting Technical Committee consisting of representatives from governmental and academic organisations engaged in oceanographic research; suggested title "Technical Committee on Oceanography" (TCO).

3. Approval has been given to the setting up of the Technical Committee on the following basis—

(a) Composition

In addition to the Chairman, up to two representatives will be provided by the following organisations—

Department of the Navy (representatives, Hydrographer and DSS)

Department of National Development (provides the Chairman)

CSIRO

Department of External Affairs

Department of the Interior

Department of Shipping and Transport

Australian Vice-Chancellors Committee

Each delegation may be accompanied by advisers as required.

(b) Functions

- (i) to collect details of the programmes of all hydrographic, oceanographic and other ships likely to provide assistance in Australian oceanographic studies. These are to include Navy hydrographic and research vessels, government oceanographic charter vessels, foreign oceanographic vessels, and vessels of mineral exploration companies;
- (ii) to assemble and disseminate all oceanographic programmes including triennial programmes where possible;
- (iii) to accept and consider requests for ship time from oceanographic groups working within Australia;
- (iv) to recommend apportionment of ship time among contenders so that the best national return is derived from the effort expended.

4. The first meeting of the TCO was held on 18th April, 1967. Action has been taken to publicise the formation of the TCO in various journals, and copies of a publicity statement (Appendix A) and of an Oceanographic Project Information Sheet (Appendix B) have been forwarded to overseas Oceanographic Institutions.

5. A further notification regarding the establishment of the National Advisory Committee on Oceanography will be made when it is formed. In the meantime interdepartmental discussions on oceanography will continue to be held when necessary.

APPENDIX A**Co-ordination of Oceanographic Work in the Australian Region—Technical Committee on Oceanography**

The increased interest shown by governmental and academic groups in oceanographic work in Australia has underlined the need for co-operation between the various groups. Ship time for scientific work in the Australian region is mainly provided by the Royal Australian Navy and the allocation of the available ship time between oceanographic groups in the best national interest has become increasingly difficult for the Department of the Navy.

This has led to the setting up of a Technical Committee on Oceanography whose prime function will be to assess the various requests for ship time and to advise the Department of the Navy on the optimum allocation. Represented on the Committee are the Departments of the Navy, National Development (Bureau of Mineral Resources), Interior (Bureau of Meteorology), Shipping and Transport, and External Affairs; the Commonwealth Scientific and Industrial Research Organisation (Division of Fisheries and Oceanography); and the Australian Vice-Chancellors Committee. Representation may be extended later to other bodies interested in oceanography.

The Committee will also seek to assist in the co-ordination of oceanographic work on other than naval ships. Oceanographic vessels in the Australian region, both Australian and foreign, are sometimes in a position to offer facilities to Australian workers and it is hoped that such offers will come to be channelled through the Committee to ensure the best use is made of the facilities available.

APPENDIX A—continued

The Technical Committee aims to collect and disseminate data on the programmes of all oceanographic ships likely to undertake oceanographic studies in the Australian region and on the programmes of oceanographic groups in Australia. This will assist Australian groups in formulating their requests, and on the basis of this information, the Committee will recommend to the Department of the Navy the best allocation of available time on Naval vessels and will assist in the co-ordination of work on other than Naval ships.

Oceanographic groups in Australia are being asked to provide information and requests to the Committee through their representatives. Overseas organisations are cordially invited to forward details of their programmes in areas of oceanographic interest to Australia so that the Committee may assist in the dissemination of this information and in possible co-ordination of oceanographic work. Correspondence should be addressed either to the Committee members who will forward it to the Chairman, or directly to Mr. J. M. Rayner, Chairman, Technical Committee on Oceanography, c/o Bureau of Mineral Resources, Box 378, Canberra City, ACT, 2601, Australia.

APPENDIX B**Oceanographic Project Information Sheet**

(Intended to provide information on forthcoming oceanographic cruises in Australian waters.)

1. Originator
 2. Organisation undertaking project
 3. Source of information
 4. Vessel, including description
 5. Outline of project including main objectives, track, dates, station spacing and station time
 6. Equipment carried and capability
 - (i) Seismic equipment
 - (ii) Magnetometer
 - (iii) Gravimeter
 - (iv) PDR
 - (v) Winches
 - (vi) Navigation aids
 - (vii) Additional items
 7. Availability of berths for Australian workers and types of work that can be undertaken
 8. Project leader(s) and staff
 9. Additional information, including co-operating organisations, others interested
- To be forwarded to The Chairman, Technical Committee on Oceanography, Bureau of Mineral Resources, PO Box 378, Canberra City, ACT 2601.

(DSS 161/1/249)

UNCLASSIFIED

534—Road Safety

The Naval Board views with concern the continuing high level of road accidents in which Naval personnel are involved.

2. Commanding Officers are to maintain records of road accidents in which personnel from their ships or establishments are killed or injured, and are to ensure that these figures are given, at quarterly intervals, the widest possible publicity within their commands.

(CONS 177/201/21)

Section 2 PERSONNEL

UNCLASSIFIED

535—Educational Qualification for Promotion to Commissioned Rank

The regulations detailing the educational qualifications required for promotion to commissioned rank have been reviewed with the introduction of the Services General Certificate of Education.

Award of SGCE Certificate

2. An SGCE Certificate will be awarded by the Naval Board to every candidate who obtains pass marks in four SGCE subjects.

Promotion to Commissioned Rank

3. The educational qualification for promotion to commissioned rank is the possession of an SGCE Certificate or its equivalent including passes in the prescribed subjects as stated below—

Categories	Compulsory Subjects
Special Duties List— GLG, TAS, B, PR, C, PT, AV, CD	English and either Mathematics I or Mathematics II
ME, AE, OE, MECH, L, R, AL, AR, SH	English and two subjects from Mathematics I, Mathematics II and Physics
S, W, CK, CA, REG, WM, WD, BD	English
Supplementary List (all categories), Upperyardman	English and either Mathematics I or Mathematics II with Physics highly desirable for SL Aircrew and Upperyardman

Note—Sailors who are qualified educationally for promotion to the above-named categories at the date of this order will not be affected by any changes in compulsory subjects detailed herein.

HET Alternatives

4. All HET subject passes or exemptions may be compounded with SGCE subjects for purposes of promotion qualifications (but not for the award of an SGCE Certificate). However, passes in two similar SGCE and HET subjects will

count only as one subject for purposes of promotion. HET subjects in this category are English Expression, Geography, Navigation, History (SGCE Modern History), Practical Mathematics (SGCE Mathematics I), Mechanics (SGCE Mathematics II).

5. A minimum of 60 per cent is required in each HET subject to be counted as a qualification for Upperyardman or Supplementary List Categories.

Civilian Educational Qualifications

6. Sailors in possession of civilian educational qualifications equivalent to, or higher than, the academic standards demanded may be granted recognition of such qualifications at the discretion of the Naval Board for purposes of promotion to commissioned rank.

7. In general, the approved civilian equivalent to SGCE will be passes in the pre-matriculation year of the various State educational systems; approval will normally be awarded on a subject basis.

8. Recognition of civilian qualifications will take one of the following forms—

Exemption (EX) .. Subject exemptions will be awarded for subjects which are similar in syllabus content to SGCE subjects. Passes in certain complex subjects if obtained at Matriculation or higher level will warrant the award of exemption in two SGCE subjects, e.g., NSW HSC Science (full course, 2nd level) will allow exemption from SGCE Physics and Chemistry.

Approved Civil Qualification (ACQ) .. Passes in civil subjects, which have no SGCE equivalent but which are considered to merit recognition, will be classified as Approved Civil Qualification (ACQ). Due to the wide variety of subjects in this category and to simplify EDP programming, such subjects will be identified by collective titles as follows—

ACQ LANG.—foreign or classical languages, etc.

ACQ HIST.—Australian, American, Ancient, Economic, etc.

ACQ SCI.—Biology, Zoology, Astronomy, Geology, etc.

ACQ CULT.—Art, Music, etc.

ACQ DRAW.—Technical, Mechanical, Descriptive Geometry and Drawing, etc.

ACQ MISC.—Crafts, Logic, Commerce, Accountancy, etc.

Note—Qualifications in English, Mathematics and Physics will be eligible only for purposes of exemption, and will not be considered for recognition as ACQ subjects.

9. A request for recognition of civilian educational qualifications is to be made to the Captain who is to forward it to Navy Office for decision. The application is to be supported by documentary evidence. A certificate from the appropriate examining authority should be forwarded where applicable, but statements,

signed by headmasters of schools, relating to internal examinations will be accepted where external examinations are not held at the end of the pre-matriculation year within the State educational system concerned. The certificate or statement will be returned after perusal.

10. Re-applications may be made, supported by documentary evidence, on behalf of sailors whose educational qualifications previously entitled them to only limited recognition under the more stringent regulations applicable to HET exemptions. Details should be included of exemptions previously awarded.

11. Civilian qualifications which are recognised by the Naval Board for purposes of promotion will not count towards the award of an SGCE Certificate.

Phasing-out of Higher Educational Test

12. The final HET Series will be conducted in September, 1968. Thereafter, the SGCE examinations will be the only Fleet tests provided to gain the educational qualifications required for promotion to commissioned rank.

13. RI Appendixes 4B and 45A will be amended in due course. A cross-reference to this order is to be inserted in the relevant sections of Navy Orders 136 and 156 of 1967.

14. With regard to Navy Order 711 of 1965, revised arrangements for SGCE academic courses will be promulgated in due course.

(DNES 325/1/47)

(Navy Orders 711 of 1965, 136 and 156 of 1967)

UNCLASSIFIED

536—Programme for Education Tests in the RAN During 1968

The following will be the programme of educational tests in the RAN during 1968—

(a) ETL—

(i) Fleet, Friday 22nd March-Friday 6th September.

(ii) Tests will be held monthly at the Recruit School, HMAS CERBERUS. Tests in March and September are to coincide with the Fleet ETL. See (a)(i).

(iii) Tests will be held in March, May, September and November at JRTE, HMAS LEEUWIN, and will coincide with those held in these months at the Recruit School, HMAS CERBERUS.

(b) HET, RAN—

(i) HET—April, 1968

	Forenoon	Afternoon
Monday, 29th April ..		English Expression
Tuesday, 30th April ..	General Knowledge	History
Wednesday, 1st May ..	Geography	Navigation
Thursday, 2nd May ..	Practical Mathematics	Mechanics
Friday, 3rd May ..	Magnetism and Electricity	

(ii) HET—September, 1968

	Forenoon	Afternoon
Monday, 9th September ..		English Expression
Tuesday, 10th September ..	General Knowledge	History
Wednesday, 11th September	Geography	Navigation
Thursday, 12th September	Practical Mathematics	Mechanics
Friday, 13th September ..	Magnetism and Electricity	

(c) SGCE, RAN—

(i) SGCE—April, 1968

	Forenoon	Afternoon
Monday, 1st April ..	English I (Expression)	English II (Literature)
Tuesday, 2nd April ..	Mathematics I	Modern History
Wednesday, 3rd April ..	Mathematics II	Geography
Thursday, 4th April ..	Physics	Chemistry
Friday, 5th April ..	Economics	

(ii) SGCE—October/November, 1968

	Forenoon	Afternoon
Monday, 28th October ..	English I (Expression)	English II (Literature)
Tuesday, 29th October ..	Mathematics I	Modern History
Wednesday, 30th October ..	Mathematics II	Geography
Thursday, 31st October ..	Physics	Chemistry
Friday, 1st November ..	Economics	Asian History

2. This order will be reprinted for posting on notice boards.

3. Navy Order 659 of 1966 is hereby cancelled.

(HPB 325/1/25)

(Navy Order 659 of 1966)

UNCLASSIFIED

537—RAN Relief Trust Fund—Financial Statement for 1966-1967 Objects of the Fund

The Fund exists to make interest free loans to help serving personnel in obtaining housing and furniture and to assist in other cases where there exists a real need. The Trustees feel the Fund should not be looked upon as a source of cheap money where normal financial facilities are available, e.g., bank overdraft, first mortgage, War Service Loan in the case of housing, and interest free terms in respect of furniture.

Housing Loan Increased

2. The Trustees have decided, in view of rising costs, to increase the first loan for housing to a maximum of \$1,000. A further loan of \$500 may be allowed after the first is fully repaid. The allotment repayment rate has not been varied.

3. A member who has had a maximum loan prior to the Trustees decision to increase a first loan is governed by the Rules then prevailing for further loans.

Loans to be Repaid Before Discharge

4. Due to amendments in the DFRB Act the Trustees regret they are unable to make loans unless they can be fully repaid before a members discharge is due. Even a promise of re-engagement is insufficient reason to vary this decision—a re-engagement must have been effected.

Assistance Rendered

5. The reasons for which loans were made in the financial year 1966-1967 were—

<i>Nature of Loan</i>	<i>No. of Loans</i>	<i>Percentage of Loans</i>
Housing	167	11.5
Furniture	636	44
Medical, Dental, Funeral	94	6.5
Travelling, Removals	83	5.7
Domestic (Overdue Accounts)	373	25.8
Other Reasons	92	6.5
	<u>1,445</u>	<u>100</u>

6. The amounts advanced under the respective categories were—

	\$
Housing Loans	94,358
Furniture Loans	262,388
Other Loans	58,636
	<u>\$415,382</u>

7. The waiting time for Housing and Furniture Loans has been kept at three months or less and at present is at two months.

Grants

8. The grants shown in the Balance Sheet were made up as follows—

	\$
Widows and dependants of personnel who died whilst serving ..	1,105.44
To ex-Naval men or their dependants	225.00
To dependants of deceased personnel writing off Relief Fund balance on death	139.00
To personnel discharged through serious illness—debts converted to grants	88.00
	<u>\$1,557.44</u>

Donations

9. Donations received in the financial year totalled \$8,114.33 of which \$8,103.87 was received from the Fleet Club, Sydney. A previous donation of \$1,005.06 was received from HMAS QUEENBOROUGH on 28th June, 1963, with the promise it should be returned should the ship recommission, was refunded.

Bad Debts

10. These have totalled for the period \$1,055.36 of which \$876 was for sailors in desertion over two years and up to five years whose warrants for arrest have been cancelled. However, at any time the sailors are recovered the debts will be revived and recovery action taken.

General

11. The Fund has repaid \$20,000 to the Central Canteens Fund which now clears the Fund of any debts due to earlier advances made by the Central Canteens Fund.

12. The Statement of Accounts and the Balance Sheet as at 30th June, 1967, are promulgated as an Appendix to this order.

13. This order will be reprinted for posting on notice boards.

APPENDIX

Royal Australian Navy Relief Trust Fund

Statement of Income and Expenditure for the Year Ended 30th June, 1967

1965-66	Expenditure	1966-67	1965-66	Income	1966-67
\$		\$	\$		\$
1,600	<i>Administrative Expenses—</i>			<i>Interest—</i>	
32	Salaries and Travelling .. 1,707.77		181	Investments .. 128.18	
	Miscellaneous .. 36.33		1,377	Bank .. 1,118.97	
		1,744.10			1,247.15
1,248	Depreciation of Office Equipment .. 18.59	668		Profit on Redemption of Investments ..	
21	Grants 1,557.44	23,090		<i>RAN Central Canteens Fund Contributions—</i>	
	Bad Debts 1,055.36			22nd November, 1966 .. 14,694.05	
	Donation Refunded (HMAS QUEEN- BOROUGH on recommissioning) .. 1,005.06			4th May, 1967 .. 15,770.74	
22,529	Surplus Income over Expenditure .. 34,445.72	114			30,464.79
				<i>Donations—</i>	
				Miscellaneous .. 10.46	
				Fleet Club .. 8,103.87	
					8,114.33
25,430		39,826.27	25,430		39,826.27

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Balance Sheet as at 30th June, 1967

1965-66	Liabilities	1966-67	1965-66	Assets	1966-67
\$		\$	\$		\$
	<i>Accumulated Funds—</i>			<i>Cash—</i>	
	Balance as at 1st July, 1966 .. 389,330.77	53,668		Bank 34,930.90	
	<i>Add—</i>	46,704		Agency Advances .. 45,361.25	
	Surplus of Income over Expenditure .. 34,445.72				80,292.15
389,331	Balance at 30th June, 1967 423,776.49			<i>Loans Outstanding—</i>	
20,000	<i>RAN Central Canteens Fund—</i>			Balance at 1st July, 1966 .. 306,583.17	
	Interest Free Loan			<i>Add—</i>	
				New Loans	
				1966-67 .. 415,382.20	
					721,965.37
				<i>Less—</i>	
				Repayments	
				1966-67 .. 379,694.27	
			306,583	Loans Convert- ed to Grants .. 88.00	
				Bad Debts .. 1,055.36	
					380,837.63
					341,127.74
			2,306	Investments (At Cost)	2,305.60
			70	Office Equipment (At Cost) .. 69.59	
				<i>Less—</i> Depreciation .. 18.59	
					51.00
409,331		423,776.49	409,331		423,776.49

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The above Balance Sheet and Statement of Income and Expenditure have been examined and are in agreement with the books and accounts. In my opinion they show fairly the financial operations for the year ended 30 June, 1967 and the state of affairs of the Royal Australian Navy Relief Trust Fund as at that date.

(Sgd.) H. V. FEALY,

Acting Auditor-General for the Commonwealth
11th September, 1967

(Sgd.) J. S. MESLEY, Rear Admiral
(Sgd.) J. W. H. BRITTEN, A/Captain,
R.A.N. } Trustees R.A.N.
Relief Trust Fund
(Sgd.) A. B. CALDER, Supply Com-
mander, RAN }
(Sgd.) K. C. CAMERON, Su. Commander, RAN (R'td.)
Secretary.

(DFSD 212/54/8)

Section 4 EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

538—Alteration and Addition Item—HMAS MORESBY

The following Alteration and Addition Item is approved to be carried out in HMAS MORESBY—

Class List Item No. 33 (Ex TDL "ABE").

- (a) *Item:* To fit additional racking in No. 1 Naval Store as detailed—
- (i) Rack built on top of SAC cabinets No's. 21, 22 and 23. Space available being 37-in. wide, 23-in. high and 18-in. deep.
 - (ii) Remove existing cable reels above rack 24 and fit new racking. Space available 54-in. wide, 26-in. high and 17½-in. deep.
 - (iii) Rack built on top of ANSC cabinets No's. 25 and 26. Space available 39½-in. wide, 23½-in. high and 18-in. deep.
 - (iv) Rack built on top of ANSC cabinet No. 31. Space available being 39½-in. wide, 33½-in. high and 18-in. deep.
 - (v) Rack built on top of ANSC cabinet No. 30. Space available being 39-in. wide, 33½-in. high and 30-in. deep.
 - (vi) Replace and resite existing rack No. 1. Space available being 36-in. wide, 86-in. high and 18-in. deep. It is noted that to build this rack one Automatic Emergency Lantern would have to be resited.
 - (vii) New rack No. 1 built and placed between cabinet No. 10 and suction pipe and manhole. Space available being 24-in. wide, 36-in. high and 10-in. deep, constructed similar to existing rack No. 1.
- (b) *References:*
- (i) HMAS MORESBY's Form AS 1182 TDL "ABE" dated 21st April, 1966, forwarded under cover of FOCAF Memorandum dated 24th May, 1966.
 - (ii) Navy Office Memorandum 1228/52/187 dated 3rd August, 1966.
 - (iii) GMGID Memorandum N20-14-344 dated 17th July, 1967.
 - (iv) Navy Office Memorandum 1228/52/187 dated 11th August, 1967.

(CNTS 1228/52/187)

UNCLASSIFIED

539—Compasses—Admiralty Type Gyro—Compasses 1005, 2005, 5005—Modification No. 1 to Support Pattern 3046

(DCI (RN) 46/1967)

Shock Absorbers Pattern 3073 used in Pattern 3046 Support for Admiralty type gyro-compasses have shown certain unsatisfactory features in service. Ships staff should therefore replace these shock absorbers with mounts, Resilient 5340-99-519-8795 at the first opportunity.

2. When these mounts, resilient have been fitted to a compass, the two Supports, Pattern 3046 are to have modification labels fitted and the figure 1 marked to indicate that this modification has been completed.

3. One set (eight in number) of mounts, resilient and two in number Plates, Modification Record 9905-99-943-2324 are required for each compass fitted.

4. Demands should be lodged with SNSO, Sydney.

(ACDC 1224/67/325)

UNCLASSIFIED

540—Leakage of Information on Tenders for Supplies and Services

Navy Order 434 of 1967 is to be amended as follows—

Paragraph 1—

delete "CONFIDENTIAL" and *insert* "IN-CONFIDENCE".

2. Navy Order 475 of 1966 is relevant.

(SEO (MAT) 400/1/296)

(*Navy Orders 475 of 1966 and 434 of 1967*)

UNCLASSIFIED

541—Ropes—Handling of Man-made Fibre Cordage

(DCI (RN) 875/1967)

A recent accident in the RN once again emphasises the need for care when handling man-made fibre ropes under strain. It is essential to remember that nylon as well as being the strongest type of cordage (approximately 2½ times the strength of the same sized manila) is also the most elastic, and stretches by almost half its length before parting. There is little, if any, warning that it is about to reach the limit of its stretch. When a man-made fibre rope parts it immediately tends to regain its original length and whips back; it will also render violently around capstan drums or bollards. Men should not stand in the line of recoil of a man-made fibre rope which is heavily loaded and should stand well back when it is turned up around bollards or capstans.

2. In addition to the precautions listed on Page 128 of the Seamanship Manual Volume 1 (1964), the following points should be observed when handling man-made fibre rope to avoid the danger of the rope slipping under load and taking charge of the men who are backing it up—

- (a) When used around a capstan or winch it should be veered rather than surged. It should not be surged against a rotating capstan.
- (b) Should surging around bollards be necessary it should be done before the strain becomes heavy.

(CONS 177/1/100)

ANO 542/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
21st December, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 2 PERSONNEL

UNCLASSIFIED

542—Procedures for Parallel Running Phase of Naval Personnel EDP System

Introduction

In accordance with Navy Order 446 of 1967 the purpose of this order is to—

- (a) explain how Electronic Data Processing (EDP) will be introduced into Naval Personnel Administration, up to and including the parallel running phase;
- (b) detail the changes to existing procedures which will become operative concurrently with the introduction of EDP reporting forms;
- (c) provide a catalogue (Appendix A) of the essential detail of the EDP files. This will not be kept up-to-date by amendment; any changes will be incorporated in ABR 5063, Volume 2; and
- (d) provide advance advice (Appendix B) of the more important changes to personnel administration policy and procedures which will be introduced concurrently with the EDP system.

2. It will be appreciated that the transfer of an information system as complex, diversified and detailed as the Naval Personnel System from basically a manually operated system to one using EDP cannot be achieved overnight. The transfer will take place over a period of months during which time the accuracy and reliability of the EDP system will be established.

3. Because of this extended transfer period, special arrangements have been made to ensure a minimum of disruption within the Service. This can only be achieved if the contents of this order are read, understood, absorbed and applied by all concerned with any aspect of Naval Personnel Administration, in conjunction with, and in extension of, the instructions contained in the Manual of Electronic Data Processing, ABR 5063, Volume 2, and RI, ABR 5016.

INTRODUCTION OF EDP TO PERSONNEL ADMINISTRATION

Basis of EDP System

4. A personnel file on magnetic tape will be created and maintained at the Navy EDP Centre. From this file, EDP-generated personnel information including Service Records for officers and sailors, will be produced for Service use; the Sailors Service Record will eventually replace the present Certificate of Service.

5. EDP records will be maintained for the following members—

- (a) Permanent Naval Forces;
- (b) Papua and New Guinea Division of the RAN;
- (c) Womens Royal Australian Naval Service;
- (d) Royal Australian Naval Nursing Service;
- (e) Reservists on Full Time Service;
- (f) Members on Loan, Exchange or Attachment from other Naval Services, i.e., those members for whom an RAN personal number is issued;
- (g) Naval Dockyard Police.

6. Appendix A to this order details—

- (a) the items of personal and Service information which will be recorded and maintained on the EDP personnel file;
- (b) the number of the EDP reporting form to be used to notify changes to these information items to the EDP Centre for incorporation in the file; and
- (c) by whom these changes are to be notified.

Many of the reports raised by Navy Office will occur as a result of normal correspondence from ships and establishments advising certain occurrences, e.g., accidents, or approvals issued by Navy Office, e.g., change of birth date.

Creation of EDP Personnel File

7. As the information which will be maintained by the EDP Centre for Naval personnel will be more comprehensive than existing records, and as it is necessary to collect this information in a timely manner, it has been decided to conduct a census of all personnel in the PNF and all members of the Reserve Forces serving in the RAN on full time service.

8. The date which has been set for the census is 4th April, 1968. A separate Navy Order will be issued on this subject.

9. The initial EDP personnel file will be created from the information contained in the Census Forms.

10. For new entrants and re-entrants, after the census, entry forms are required to enable the appropriate new EDP record to be created. These entry forms for EDP use will be additional to the normal forms of engagement.

11. For EDP purposes, entrants have been categorised as follows—

(a) *Category 1*—

Those for whom no EDP record exists and who have no previous service in any Commonwealth Navy, i.e., normal first entrants.

(b) *Category 2*—

Those for whom no EDP record exists but where history includes some type of Naval Service. This category includes—

- (i) first entrants who have served in another Commonwealth Navy;
- (ii) members on loan or exchange or attachment from another Service;
- (iii) re-entrants not serving when the initial EDP personnel file was created; and
- (iv) members of the Reserve forces appointed for full time service in the PNF.

(c) *Category 3*—

Those for whom EDP has a record of previous service.

12. An Entry Part 1 Form is to be completed in respect of all new entrants and re-entrants. This form will normally be completed in the Recruiting Office. However, where a member is entered direct to a ship or establishment, the Entry Part 1 Form is to be completed in the ship or establishment. As all future

EDP reports concerning a member are dependent on the rendering of an Entry Part 1 Form, the ship or establishment where the member first joins is to ensure that this form has been completed and rendered to the EDP Centre.

13. The necessity for Entry Part 2 and/or Entry Part 3 Forms to be completed at Navy Office in respect of any new entrant in order to ensure that a complete history is held by the EDP Centre, will depend upon the category into which the entrant falls.

14. This will be notified to the Recruiting Office, or the ship or establishment, in the signal accepting the applicant for entry and will determine the Form Code which will apply to the Entry Part 1 Form. Full details of the procedures to be observed in this regard are contained in ABR 5063, Volume 2.

15. On 18th March, 1968, the EDP reporting Forms (in accordance with Appendix A and ABR 5063, Volume 2) will be introduced for Service use in lieu of current forms.

16. Whilst this will lead to some double reporting, i.e., reports will be raised for items which will also appear on the Census Form, experience elsewhere in similar collections of data for EDP systems has shown that it is necessary to introduce EDP reporting prior to a census to ensure a complete EDP file. Although there is a large number of new forms the majority are used in substitution of existing forms or letters.

17. For personnel occurrence reports which also affect pay or allowance entitlements (other than leave or movement reports) a pay report will also be required. The Forms AS 161 series in their present form of reporting will be replaced by a revised version of Form AS 161B (see Paragraph 61).

18. As it will take some months for the EDP personnel file to be set up from the census details, the EDP Centre will accumulate all the personnel reports received from the Service.

19. When the complete EDP personnel record for a member has been created and checked, all reports received subsequent to the census date will then be processed by the EDP Centre. Any queries which arise will have to be resolved either by reference to Navy Office records or back to the ship or establishment originating the report. By the time these reports have been processed there will be a further accumulation of reports to be processed by the EDP Centre, queries to be resolved, etc. This updating process may continue for some months until the stage is reached where processing at the EDP Centre is carried out on a regular planned basis in step with the manual system.

Parallel Running

20. When the processing of personnel reports is taking place on a regular planned basis in step with the manual system, "Parallel Running" will have commenced.

21. This will be the period when the new EDP system and the manual clerical system are being operated simultaneously from the same data documents and the proving of the EDP system will take place.

22. It must be clearly understood that, during this period, existing personnel records, including Certificates of Service and Enclosures, will continue to be maintained under existing procedures, although in the majority of instances EDP forms will provide the basic data for this purpose.

23. During this period EDP-generated Service Records will also be despatched to ships and establishments to enable—

- (a) personnel to become familiar with the layout and contents of the record; and
- (b) comparisons of the contents of the record and the Certificates of Service and Enclosures to be made.

A separate Navy Order, which will include procedures for the notification of discrepancies between the EDP-generated Service Record and the Certificates of Service and Enclosures, will be issued prior to the distribution of the EDP Service Records.

24. Parallel running will continue for a period sufficiently long enough to enable a proper appraisal of the EDP system to be made. When it is considered that the EDP system is satisfactory, parallel running will cease, the EDP Centre will assume responsibility for the maintenance of the Service personnel records and "Independent Running" will commence.

25. This transfer of responsibility to the EDP Centre may be phased over various areas of personnel recording with the result that parallel and independent running, in different areas of personnel administration, may be in concurrent operation.

26. During the period of parallel running there will be an extra work load in ships and establishments because of the commitment to maintain the existing manual system and to check the data processed records against the existing records. As it is in the interests of both the administration and the individual for this period of parallel running to be kept to a minimum the necessity for complete observance of instructions and accuracy of reporting cannot be overstressed.

27. Separate instructions will be issued before any section of the personnel system is committed to independent EDP operation.

CHANGES TO EXISTING PROCEDURES TO BE INTRODUCED CONCURRENTLY WITH EDP REPORTING

Manner of Reporting Personnel Occurrences

28. The need for accuracy and completeness of reporting must be stressed.

29. Presentation of information in the manner laid down in ABR 5063, Volume 2, must be strictly adhered to in order to minimise the return of reports to originators for re-presentation in the correct and acceptable form. In particular, the following should be observed to assist in reducing data transcription errors—

- (a) block letters, and not script, is to be used when the form is manually completed;
- (b) information must be kept within the correct block and area of each form;
- (c) document layouts must not be altered.

30. In order to make the most effective use of EDP, and to lessen the possibility of error by reducing the size and content of the report forms to a minimum, it has been necessary to introduce coding into a number of areas of reporting.

31. This concept involves a new approach to the completion of forms, and the manner of reporting occurrences which may take a little time to become familiar. The Manual of Electronic Data Processing (ABR 5063, Volume 2), however, gives comprehensive and detailed instructions (including examples) of the manner in which all EDP personnel reporting forms are to be completed.

32. It should also be noted that, while it is possible for certain checks on the validity of information included in the reports to be made within the EDP system, it is not possible to safeguard against all errors which may be included in the reports, and such errors may be perpetuated unless corrective action is taken by the reporting authority. It is therefore necessary not only to check that any output received from the EDP Centre agrees with the information reported, but that the information shown is that which was intended—e.g., the incorrect spelling of the name or address of a members next-of-kin will not be detected by the EDP system.

33. The Base Tenders Office will be responsible for rendition and registration of EDP reports in respect of personnel in small ships and tenders. Copies of the EDP Manual (ABR 5063) will not be supplied to ships such as minesweepers and small craft but copies will be held at the Base Tenders Office. Critical reports from small ships, such as movements, should be signalled to the Base Tenders Office when operating away from the base.

Due Date Reports

34. The EDP system is to provide a "Due Date" facility, whereby the EDP Centre will warn ships, establishments and Navy Office of particular personnel events that are becoming due.

35. During parallel running, this part of the EDP system will be progressively activated, beginning with devices to Navy Office, and then extending to ships and establishments.

36. The main areas of activity which will initially be affected are—

- (a) promotion (where non-selective);
- (b) the award and restoration of a good conduct badge;
- (c) notification of discharge date;
- (d) eligibility for removal of "RUN" entitlement; and
- (e) award of LS and GC Medal.

Separate instructions will be issued prior to the extension of due date reporting to ships and establishments. Until that time, the existing procedures applicable to the ascertainment of a members date for promotion, award of badge, etc., are to continue.

Conduct Assessments

37. It has been decided to abolish character assessments and use only the following conduct assessments—

Assessment					Abbreviation
Very Good	..	..	..	..	VG
Very Good (Star)	..	..	..	..	VG*
Good	..	..	..	..	Good
Poor	..	..	..	..	Poor

38. The relevant instructions, in the form of approved revisions to Chapters 18, 19 and 20 of RI are at Appendix B. A summary of the main aspects of these revised instructions as they relate to conduct are as follows—

- (a) Conduct will be assessed as Very Good on entry or re-entry of a member into the Service.
- (b) Conduct will be assessed below Very Good on any occasion on which a conduct break occurs or is awarded as a result of a disciplinary offence.
- (c) A break in conduct and a discretionary conduct assessment may also be awarded at any time in much the same fashion as discretionary character assessments are awarded now.
- (d) The new conduct assessment must be made when a conduct break is awarded and not on the following 31st December.
- (e) "Poor" will replace those assessments inferior to "Good".
- (f) Very Good conduct recommences the day following termination of periods of imprisonment, cells, detention or Second Class for Conduct.
- (g) Where a sentence is suspended, or the punishment awarded does not include imprisonment, detention, cells, or Second Class for Conduct, Very Good conduct recommences the day following the award of the punishment.

39. When the EDP Centre receives and records a report of a warrant or equivalent Court Martial punishment, the maximum conduct assessment permissible will also be automatically applied to the relevant record. Where it is desired to award any other conduct assessment than that prescribed in RI (Table III of Article 1991C, the approved revision of which appears at Appendix B) the conduct assessment must be reported to the EDP Centre on Form PD 1.

40. When a sailor is placed in the Second Class for Conduct, a conduct assessment must be reported to the EDP Centre on the day that the sailor is reinstated to the First Class for Conduct. The date of this assessment is to be the last day in the Second Class for Conduct.

41. The Certificate of Service of the member concerned is to be noted from the EDP reports raised.

Efficiency Assessments

42. Efficiency assessments for AB2's and above will be derived from an averaging of the assessments awarded in the performance evaluation reports (Form PP 1) for job performance, Service behaviour, leadership and supervisory ability or potential, dress and appearance, and personal qualities. NAA, JR, RCT and ORDS will not be assessed.

43. Performance evaluation reports (Form PP 1) are to be rendered in accordance with the instructions contained in ABR 10 and ABR 5063, Volume 2. The assessments derived from these reports are to be recorded on history sheets Part 10 Record of Service during the period of parallel running. Efficiency assessments will cease to be recorded on Page 4 of the Certificate of Service after notation of the assessment for 31st December, 1967.

Reports of Next-of-Kin

44. The requirement to render annual reports of particulars of next-of-kin will be discontinued. Reports of particulars of next-of-kin will be rendered on Form PR 1, on entry into the Service at the Recruiting Establishment or initial point of entry, and on Form PH 19 for alterations in particulars of next-of-kin. Where a change in marital status is involved, Form PA 1 is also to be rendered.

45. Personnel, other than those covered by Paragraph 5 (a) to (g) of this Navy Order, serving in or attached to ships and establishments (e.g., members of the Army, Air Force or other British Commonwealth Navies or Service or civilian members of other organisations, etc.) are to complete Form PH 104 in duplicate; after notation of particulars on Form AS 224Z, one copy is to be forwarded to Navy Office and one copy to the Headquarters of the organisation to which the person is attached.

46. Form PH 104 will also be required for members of the Reserve Forces undergoing annual continuous training, etc. In the case of RAN ships acting as troop ships, the Army will maintain nominal rolls of troops embarked and details of next-of-kin, and hence Form PH 104 will not be required.

Dependent Children

47. The requirement to report details of dependent children is a new one. The details which will be reported on Form PH 18 are to enable the information recorded to be used for a members advantage for posting purposes and allocation of married quarters. There is no requirement for this information to be recorded on the Certificate of Service during parallel running.

Posting Lists

48. Full details of the layout of the revised Posting Lists appear in a separate Navy Order.

49. The effective date shown on a posting list is the date upon which the member is to join his new ship. With the exception of posting for leave (PFORLV), any leave, travelling time, etc., will be borne by the losing ship. A posting loss transfers the responsibility for the outgoing member to his new ship with effect from the date of the posting loss. Seetime will be calculated for leave and promotion purposes as the period between a member joining a ship and subsequently joining an establishment. If a member is posted from a ship to an establishment for leave, his seetime will cease on commencement of leave, as he will be borne by the establishment even though he does not physically join that establishment until completion of leave.

Movement Reports

50. The necessity for reporting movements promptly and accurately must be stressed as a members eligibility for some specific benefit may be jeopardised, or unnecessary anguish may be caused to relatives, if Navy Office records are incomplete or inaccurate.

51. It is essential that details of the movements of all personnel joining or leaving ships and establishments be reported daily to the EDP Centre—

- (a) to permit the personnel file to be factually maintained; and
- (b) to enable Navy Office to ascertain, as occasion demands, the names of every person "aboard" one of HMA ships or establishments at any specific time.

52. The leaving and joining sheets will be replaced by EDP movement reports. Gains will replace the joining sheets and be reported on Form PB 2. A further new Form, PB 6, will be used to report transfers, i.e., changes of duty within a ship or establishment. The reporting of movements will remain the responsibility of the Executive Officer (*see* RI Article 5024).

53. The circumstances under which each type of movement report will be raised by ships and establishments, together with the appropriate report type, duty type, and any supporting information which should be reported concurrently, are set out in ABR 5063, Volume 2. The following gives a guide to principles along which the EDP system has been developed—

- (a) three types of movements known as "gains", "losses" and "transfers" will be recorded within the following—
 - (i) those resulting from a posting; and
 - (ii) temporary moves where a posting is not issued;
- (b) movements on overnight, weekend or long weekend leave will not be recorded;
- (c) ships proceeding to sea will report by signal and by movement report all gains and losses since the last movement report, including persons who are neither members of, nor attached to, the RAN;
- (d) ships at sea will report by signal and by movement report all gains and losses of personnel in and out of the ship for more than 24 hours, with casualties, e.g., missing, being reported immediately; and
- (e) ships in harbour or under refit, and establishments will report *daily* personnel who are gained, lost or transferred, except for those movements in (b) above.

54. The EDP Centre will be required to produce comprehensive statistics in respect of ineffective service for management purposes. To meet this requirement a "Duty Type" column is included in all movement reporting forms and the information furnished within this column will be used as the basis for the statistics. For this reason it is important that the details contained in ABR 5063, Volume 2, relating to movement duty types should be strictly observed.

55. The report of gains will include a column headed FTR (Failed to Report) and will be used when a member has been posted to a ship and fails to report on the day on which he was expected to join. In these circumstances the "receiving" ship will be required to report a posting gain which, however, will show FTR. Subsequent action by the ship will be dictated by circumstances, namely—

- (a) if the member is known to be in another ship or establishment, no further report will be required until he actually joins; or
- (b) if the members whereabouts are known but he is not in another ship or establishment, e.g., sick on shore, a non-posting loss showing the appropriate duty type will be reported; or
- (c) if the members whereabouts are unknown, a non-posting loss to "absence" or "run", as appropriate, will be reported;
- (d) when the member finally joins the "receiving" ship, a non-posting gain will be reported.

56. It is imperative for recording purposes and for the provision of appropriate advice to management, that the results of posting instructions should be known at all times. Hence the procedure at Paragraph 55 is made necessary by the principle outlined in Paragraph 49 whereby the responsibility for the member is transferred to the new ship with effect from the date of posting.

57. The reporting of members proceeding on leave will be done on Form PB 3, Loss to Leave Report, in accordance with the instructions contained in ABR 5063, Volume 2.

58. A further Form PB 16 will also be required to report to Navy Office movements of persons who are neither members of, nor attached to, the RAN. This report will not be forwarded to the EDP Centre as a personal record will not be maintained for these persons. Members of the CNF undergoing annual continuous training, etc., and who are not included in the EDP personnel file must be included on this report.

Courses and Qualification Numbers

59. With the introduction of EDP, courses have been renumbered and a numbering system has been introduced to record special skills and qualifications held by members. These special skills and qualifications will be known as qualification numbers.

60. The course numbers will, where appropriate, incorporate a qualification number, e.g., course number 911700 includes the qualification number 11700. Full details of both course and qualification numbers will be published as Volume 3 of ABR 27. This volume will include a complete description of the numbering system used for courses and qualification numbers.

Pay Accounting Documents

61. In the past all personnel changes which also had an effect on pay were reported on Form AS 161. With the introduction of EDP reporting, Form AS 161, as such, will be abolished and will be replaced by other forms which will only affect personnel records. In order to meet audit and accounting requirements, it is still necessary that a form containing details of both the personnel occurrence and the pay accounting action taken be raised and transmitted to DNA. It has been decided, therefore, to revise the existing Form AS 161b so that it will serve a dual purpose, i.e., the present purpose plus the pay accounting purpose of the present Form AS 161. The revised version of Form AS 161b will be raised on all personnel occurrences for which a copy of the EDP form is received in the Pay Office, as well as for purely pay transactions. ABR 18 will be amended to include the revised procedures.

Promotion and Rank Changes

62. Reports of promotions, grant of acting rank, reversions, etc., for officers will be rendered on Form PA 16 to the EDP Centre from Navy Office and these will appear in the title variation section of the Posting List. Rank changes in respect of sailors will be forwarded to the EDP Centre by ships and establishments on Form PA 54.

63. The authority for the raising of a Form AS 161b in respect of promotions and rank changes for officers will be the personal title variation section of the Posting List and for sailors will be the Pay Office Copy of Form PA 54.

64. The foregoing instruction in respect of the rendition of Form PA 54 by ships and establishments will be operative until independent running of the EDP system is achieved. In all other respects, however, the detailed instructions contained in Articles 3170 and 3180 of ABR 5063, Volume 2, will apply.

Important Special Considerations

65. When the EDP system for personnel administration has been exhaustively checked and proved, it will be possible to introduce "exception reporting" in respect of a number of personnel occurrences. An example of this concept is the assumption that the Commanding Officer had approved the promotion of a member on the due date unless a report is received to the contrary. In this case the EDP record would automatically be amended to reflect the effect of the promotion unless the exception report was received.

66. However, until the EDP system has been committed to independent running, in accordance with Paragraph 27, exception reporting will not be introduced.

67. Consequently, it is important to understand that the following paragraphs in the revised Chapters 18 and 20 of RI (included at Appendix B to this Navy Order) will not apply during the parallel running period and that reports should be rendered in accordance with the information contained in Appendix A—

<i>RI Article No.</i>				<i>Paragraph not Applicable Until Independence Running</i>
1874	..	..	..	3—First Sentence
1881	..	..	..	1
2017A	..	..	..	1
2071A	..	..	..	2, 3 and 4

68. In addition, because due date reports will not be extended to ships and establishments during the initial stages of parallel running, in accordance with Paragraphs 34-36 of this Navy Order, revised Articles 1874 and 2071A of RI, ABR 5016, insofar as they relate to due date reports, will not become fully operative until further instructions are issued.

APPENDIX A

Catalogue of Personal and Service Details to be Maintained on EDP Personnel File

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Item	Authority Responsible for Reporting Details to the EDP Centre	Form used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
Academic qualifications—				
secondary education	Recruiting Authority	PR1	No	
tertiary education	Navy Office	PA3	Yes	
Accident details	Navy Office	PA21	No	
Address on entry	Recruiting Authority	PR1	Yes	
Address on discharge	Navy Office	PH2	Yes	
Adjustment of seniority—				
officers	Navy Office	PA16	Yes	
sailors	Navy Office	PA54	Yes	
Appointment type on entry	Recruiting Authority	PR1	Yes	
Birth details—				
date	Recruiting Authority	PR1	Yes	
change of date	Navy Office	PA3	Yes	
place of	Recruiting Authority	PR1	Yes	
Branch Change—officers	Navy Office	PA16	Yes	
Burial—place of	Navy Office	PA26	No	
Campaign awards (stars and medals)	Navy Office	PA2	Yes	
Casualty details (death and burial)	Navy Office	PA26	No	
Category details—				
Preferences on entry—				
sailors	Recruiting Authority	PR1	No	
Preference—officers	Ship	PH3	No	
Allocated—officers	Navy Office	PA16	Yes	
sailors	Ship	PH3	Yes	
Alternative allocation	Ship	PH3	No	
Change of—officers	Navy Office	PA16	Yes	
Change of—sailors	Ship	PA54	Yes	Where change of rank is also involved, other than reversion, rank change also to be reported separately.
Civil power—periods in	Ship	PD12	Yes	
Commission—issue	Navy Office	PA3	No	
Commissioned—date	Navy Office	PA3	Yes	
Committal of punishment	Ship	PD7	Yes	
Component of force—				
change in	Navy Office	PA27	Yes	
Component of force—				
number prefix on entry	Recruiting Authority	PR1	Yes	
Conduct assessments—				
VG start date	Derived by EDP program .. ..	.. ..	Yes	
Awarded (discretionary) as a result of court martial or warrant punishment	Ship	PD1	(a)	(a) VG* Date recorded on Service Record.
Conduct assessments—				
awarded at any other time	Ship	PP5	(a)	
Course/Test results	Ship	PE5	(b)	(b) Pass for course/test may be recorded on Service Record as particular course, e.g., NBCD, BTT or qualification which results from passing of course.
Court-martial conviction details	Ship	PD1	Yes	
CW candidate—				
papers raised	Ship	PA1	Yes (Date)	
papers withdrawn	Ship	PA1	Yes (Date)	

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Item	Authority Responsible for Reporting Details to the EDP Centre	Form used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
Dependent children— sex and year of birth— on entry	Recruiting Authority	PR1	Yes	
after entry	Ship	PH18	Yes	
Discharge—premature— application	Navy Office	PA3	Yes (Date)	
non approval	Navy Office	PA3	Yes	
Discharge— previous details	Derived by EDP program .. .. .	..	Yes	
date and reason	Navy Office	PH2	Yes	
date due	Derived by EDP program .. .. .	..	Yes	
married name on	Navy Office	PH2	N/A	
Disturbance allowance payments	Navy Office	PB15	No	
Educational qualifications— Service— ET1	Navy Office	PE8	Yes	
HET	Navy Office	PE9	Yes	
Civilian— secondary	Recruiting Authority	PR1	No	
tertiary	Navy Office	PA3	Yes	
Employment history	Ship	PP1	Yes	
Engagements— particulars on first entry or re-entry	Recruiting Authority	PR1	Yes	
Re-engagements— applications	Ship	PR10	No	
approval	Navy office	PA3	No	
non-approval	Navy Office	PA3	No	
effected	Ship	PR7	Yes	Where change of component of force is involved, e.g., transfer to NDP without a break in service, Form PA27 will be raised by Navy Office and Form PR7 is not to be raised.
Extensions of service— not under engagements	Navy Office	PA4	Yes	
Family disability— notation of welfare history	Navy Office	PA4	Yes (Date)	
First entry details	Recruiting Authority	PR1	Yes	Where member is not recruited through a Recruiting Authority the relevant forms are to be completed at the first ship or establishment the member joins.
Foreign decorations	Navy Office	PA3	Yes	
Furlough—details of— entitlement start date	Navy Office	PA3	Yes	
furlough taken	Navy Office	PA3	Yes	
payments in lieu	Navy Office	PA3	Yes	
prior admissible service	Navy Office	PA3	Yes	
Gazetted information	Navy Office	PA2	No	
Good conduct badges— award/restoration	Derived by EDP program, but see remarks	PA17	Yes	To be reported by ship until otherwise notified.
award after deferment	Ship	PA17	Yes	
deferment	Ship	PA17	No	
deprivation	Ship	PD1	Yes	
forfeit	Derived	Yes	

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Item	Authority Responsible for Reporting Details to the EDP Centre	Form Used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
<i>Good conduct badge—continued</i>				
non-award	Ship	PA17	No	
prior military service to count for	Navy Office	PA20	Yes	
<i>Home Port—</i>				
allocation on entry	Recruiting Authority	PR1	Yes	
change of	Navy Office	PA3	Yes	
<i>Honours and Awards—</i>				
other than foreign decorations	Navy Office	PA2	Yes	
foreign decorations	Navy Office	PA3	Yes	
<i>Honorary distinctions and staff courses</i>				
	Navy Office	PA4	Yes	Includes notations such as ADC, GGHS, etc.
Ineffective details	Derived by EDP program		No	
Job stability	Navy Office	PA4	Yes	
Job suitability	Navy Office	PA4	No	
<i>Leave—</i>				
deferred	Ship	PA24	No	Leave will be recorded by EDP on leave record which will be issued to ships after a member is gained by posting and is then to be maintained by the ship manually in the leave record.
taken in excess of entitlement	Ship	PA24	No	
taken	Ship	PB3	No	
<i>Leave concession warrants—</i>				
home town	Derived by EDP program or Navy Office	PB8	No	
warrants issued	Ship	PB3	No	Details of warrants issued are contained on the EDP produced leave record.
List change—officers	Navy Office	PA16	Yes	
<i>Long Service and Good Conduct Medal and Clasp—</i>				
award	Ship	PA17	Yes	
deprivation	Ship	PD1	Yes	
forfeiture	Derived by EDP program		Yes	
restoration	Ship	PA17	Yes	
<i>Marital status—</i>				
on entry	Recruiting Authority	PR1	Yes	
change of	Ship	PA1	Yes	Required in conjunction with change of next-of-kin. Forms AS 1299X or AS 1299Z should be forwarded if required.
<i>Medical category—</i>				
on entry	Recruiting Authority	PR1	Yes	
on survey	Navy Office	PM4	Yes	
<i>Movements (ships served in and movements between postings)—</i>				
gain	Ship	PB2	Yes—if as a result of posting	
leave	Ship	PB3		
loss	Ship	PB13		
transfer	Ship	PB6		
<i>Names, given and surname—</i>				
on entry	Recruiting Authority	PR1	Yes	
change	Navy Office	PH1	Yes	
NBCD qualifications	Ship	PE5	Yes	

Item	Authority Responsible for Reporting Details to the EDP Centre	Form Used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
Next-of-kin details—				
on entry	Recruiting Authority ..	PR1	Yes	
change	Ship	PH19	Yes	
Next promotion due	Derived by EDP program ..		Yes	For ranks of Able Seaman and above. Where selective promotion involved this will be shown.
Officers commissions—				
date issued	Navy Office	PA3	No	
date commissioned	Navy Office	PA3	Yes	
Past history—re-entrants ..	Navy Office	PR4, PR5	Yes	
Pay seniority	Ship—for sailors	} PA54 PA16	Yes	
	Navy Office—for officers ..			
Pension type—				
on entry	Recruiting Authority ..	PR1	Yes	
change	Navy Office	PA3	Yes	
Performance evaluation reports ..	Ship	PP1	Yes	
Personal description—				
on entry	Recruiting Authority ..	PR1	Yes	
change of detail	Ship (when requested by Naval Board)	PH16	Yes	
Personal number (RAN) ..	Recruiting Authority ..	PR1	Yes	
Personal number (other Services) ..	Recruiting Authority ..	PR1	Yes	
Personal title variations—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	

postings	Navy Office	PB1	Yes	
Preference locality	Ship	PA1	Yes	
Preferred category for training—				
officers	Ship	PH3	No	
sailors	Recruiting Authority ..	PR1	No	
Premature discharge—				
application and reason	Navy Office	PA3	Yes	
date of refusal	Navy Office	PA3	Yes	
Previous Military Service—				
details of	Recruiting Authority or Navy Office	PR1 or PH15	No	
for badge purposes	Navy Office	PA20	Yes	
Prisoner of War—				
person reported	Navy Office	PA3	Yes	
Prizes (special awards)	Navy Office	PA2	No	
Promotion—				
assessment	Ship	PP1	No	
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
deferment—sailors	Ship	PD8	No	
after deferment—sailors	Ship	PA54	Yes	
stoppage—sailors	Ship	PD8	No	
Refusal—sailors	Ship	PD8	No	
Confirmation—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
Daily stages on re-entry	Navy Office	PR5	Yes	
Qualification numbers without course	Ship	PA6	Yes	
Retest	Ship	PA6	Yes	
Resulting from course/test	Ship	PE5	Yes	
Quash of conviction	Navy Office	PD13	Yes	

Item	Authority Responsible for Reporting Details to the EDP Centre	Form used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
Rank—				
on entry	Recruiting Authority ..	PR1	Yes	
change on promotion—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
change on confirmation—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
change on grant of temporary/acting rank—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
change on reversion/reduction—				
officers	Navy Office	PA16	Yes	
sailors	Ship	PA54	Yes	
Re-appointment date	Recruiting Authority ..	PR1	Yes	
Re-engagement—				
application	Ship	PR10	No	} Where a change in component of force is involved, e.g., transfer to NDP without break in Service Form PA 27 will be rendered by Navy Office and Form PR 7 should not be raised by ships.
approval	Navy Office	PA3	No	
effected	Ship	PR7	Yes	
not approved	Navy Office	PA3	No	
Re-entry enquiry	Navy Office	PA3	No	
Religion—				
on entry	Recruiting Authority ..	PR1	Yes	
change of	Ship	PA1	Yes	
Remission of sentence	Ship	PD7	Yes	
Removals—				
application	Navy Office	PA3	Yes	
particulars of	Navy Office	PB14	Yes	
Retirement benefits—				
on entry	Recruiting Authority ..	PR1	Yes	
change	Navy Office	PA1	Yes	
Returned from Active Service				
Badge—award	Navy Office	PA2	No	
Run—				
date marked	Ship	PB13	Yes	
date recovered	Ship	PB2	Yes	
to absence—change	Ship	PA1	Yes	
to shore—change	Ship	PA1	Yes	
removed	Navy Office	PD6	Yes	
Sea-time	Derived		Yes	} For promotion and leave purposes.
Sea-time waiver	Navy Office	PA3	Yes	
Secondary education	Recruiting Authority ..	PR1	No	
Security grading—				
on entry	Recruiting Authority ..	PR1	Yes	
change	Navy Office	PA3	Yes	
Seniority (and pay seniority)	Ship—for sailors	} PA16 or PA54	Yes	
	Navy Office—for officers ..			
Special report	Navy Office	PA4	No	
Suspension of sentence	Ship	PD7	Yes	
Swimming tests	Ship	PE5	Yes	
Test results	Ship	PE5	(g)	(g) Test results will appear on the service record where provision has been made for the particular

APPENDIX A—continued

Item	Authority Responsible for Reporting Details to the EDP Centre	Form used to Convey Detail	Whether Item Will Appear on EDP Produced Service Record	Remarks
Test Results—continued				
Temporary accommodation allowance—payments	Navy Office	PB9	No	test, e.g., swimming, NBCD, BTT, Section 1, Part 1, and Section 1, Part 2, or as a particular qualification number if a qualification is attached to the passing of a particular test. Time gained is derived from results of ET1, HET and SGCE.
Temporary rental allowance—payments	Navy Office	PB11	No	
Time forfeited	Derived	PE5	Yes	
Time gained/lost	Ship and Derived	PE5	Yes	
Time not on pay	Derived	PR5	Yes	
Type of service—reserve sailors only	Navy Office	PR5	Yes	
Volunteer for service of a particular nature	Navy Office	PA4	Yes	
Warrants for arrest—issue	Derived	PA2	No	
Warrant cancellations	Navy Office	PA2	No	
Warrant offences—details of	Ship	PDI	No	
Warrant punishments—details of	Ship	PDI	Yes	

APPENDIX B
AMENDMENTS TO RI

CHAPTER 18—SECTION VI—ASSESSMENT OF CONDUCT

1858. Assessment Generally. The following terms are used to indicate a sailor's assessed standard of conduct—

- Very Good (abbreviated "VG")
- Very Good* (abbreviated "VG*")
- Good (no abbreviation)
- Poor (no abbreviation).

2. On the entry or re-entry of a sailor into the Permanent Naval Forces, or when a reservist begins to render continuous full time Naval Service, his conduct is deemed to be Very Good, and continued to be so assessed until such time as the Commanding Officer imposes an obligatory break (*see* 1859) or a discretionary break (*see* 1860) in the continuity of that conduct.

3. When a break in VG conduct occurs, the Commanding Officer is to assess the sailor's conduct and give an assessment of Good or Poor. *See* 1862 on the circumstances in which an assessment of Poor is obligatory, and 1861 on the circumstances in which an assessment of VG* may be given so as to avoid a break in continuity of VG conduct.

4. On any occasion on which a break in VG conduct is imposed, the sailor is to be informed that the continuity of his VG conduct has been broken and of the assessment which has been made. When a sailor's conduct is assessed as VG* he is to be informed accordingly.

1859. Obligatory Breaks in VG Conduct. A break in VG conduct is obligatory on the occasions shown in the following table (but *see* 1862 on VG*)—

Occasion	Date VG Conduct Begins Again
(a) Sentenced to a warrant punishment	(a) The day after the date on which the warrant is formally read or the day after release from cells or detention, or the day after termination of second class for conduct, whichever is appropriate to the sentence imposed (<i>see</i> also Clause 2).
(b) Court-martial sentence which is at least the equivalent of a warrant punishment	(b) The day after the day of the sentence or the day after release from cells, detention, or prison or the day after termination of second class for conduct, whichever is appropriate to the sentence imposed (<i>see</i> also Clause 2).
(c) Suspension of a sentence of imprisonment or detention terminated and offender committed to prison or detention	(c) The day after release from prison or detention as the case may be.

APPENDIX B—continued

<i>Occasion</i>	<i>Date VG Conduct Begins Again</i>
(d) When the award of a good conduct badge is dispensed with altogether under Article 1874 (4) or (7) or is intentionally not restored when due	(d) The day after the original qualifying date.
(e) Trial for desertion dispensed with under Section 74 of the Act	(e) —
(f) When entailed by reversion following conviction by the civil power	(f) The day after the date of reversion.
(g) Discharge "Services Longer Required" No	(g) —

2. When a sentence of imprisonment or detention is suspended, VG conduct recommences the following day. When a sentence of imprisonment or detention is postponed under Section 85 (3) of the Naval Discipline Act (see QR & AI 2025 (2)) recommencement of VG conduct is to be ante-dated by the number of days postponement.

3. When an offence is proved in a civil court but a break in continuity of VG conduct is not involved, the existing date of VG conduct is to be post-dated by the number of days pay and service forfeited in civil custody.

1860. Discretionary Breaks in VG Conduct. In addition to the occasions on which a break in the continuity of VG conduct is obligatory, the Commanding Officer may, at his discretion, break the continuity of a sailors VG conduct where—

- (a) the sailor commits a series of minor Naval offences;
- (b) an offence is proved against the sailor in a civil court and a break in VG conduct is not otherwise obligatorily awarded;
- (c) the sailor otherwise conducts himself in a reprehensible manner.

A break in continuity of VG conduct is not a punishment and cannot be imposed as such; it may, however, accompany a punishment. After a discretionary break, VG conduct recommences on the following day.

2. Continuity of VG conduct is important to the sailor and a break in continuity is not to be made without proper deliberation. Such a break must be accompanied by the award of a conduct assessment of Good or Poor, which—

- (a) may have an adverse effect on promotion and on the award or restoration of badges and medals;
- (b) if "Good" may render a man ineligible for the Long Service and Good Conduct Medal;
- (c) if "Poor" disqualifies a man for the Long Service and Good Conduct Medal and for appointment as an officer, under normal conditions.

The effects of a break will therefore vary according to the length of service and previous record of the individual concerned. It may have no direct consequences for recent entrants.

APPENDIX B—continued

1861, VG* Conduct Assessment. Once during a sailors career after he attains the age of 18 years the Commanding Officer may award a conduct assessment of VG* where a Good would otherwise be the appropriate assessment.

2. The grant of a VG* assessment would entail a break in VG conduct but will preserve a sailors eligibility for the award of the Long Service and Good Conduct Medal in circumstances which would otherwise disqualify or delay a member from the award of the medal.

3. A VG* assessment may be awarded in the following circumstances—

(a) where a break in VG conduct is required by one of the following punishments—

- (i) during the first four years of service after attaining the age of 18 years—cells or detention not exceeding five days or reduction to the second class for conduct not exceeding 21 days; or
- (ii) deprivation of one good conduct badge or, in the case of a reservist rendering continuous full time Naval service, one good service badge; or

(b) where a sentence of detention is suspended under Section 90 of the Naval Discipline Act (see QR & AI 2003 and 2004), and any consequential penalty of reduction in rank or the deprivation of the Long Service and Good Conduct Medal or two or three good conduct badges, which accompanied the sentence of detention, is also suspended.

4. An assessment of VG* is not to be given—

- (a) when there has been an earlier assessment of Good or Poor;
- (b) when an earlier assessment of Good or Poor has been especially altered to VG by the Naval Board, otherwise than in consequence of the quashing of a punishment.

5. VG* is equivalent to VG in all respects for the award of the Long Service and Good Conduct Medal only, the asterisk (*) being placed against the assessment to ensure that the privilege allowed is not granted more than once to a sailor during his service.

1862. When Assessment of Poor is Obligatory. An assessment of Poor is obligatory on the following occasions—

- (a) a sentence of imprisonment or detention exceeding 21 days;
- (b) a sentence of imprisonment, detention or cells for less than 21 days imposed within twelve months of the imposition of a sentence or sentences of imprisonment, detention or cells, where the aggregate of the sentences exceeds 21 days;
- (c) dismissal;
- (d) a sentence of reduction to the second class for conduct that is not terminated on or before the 42nd day;
- (e) a sentence of reduction to the second class for conduct, imposed within twelve months of the imposition of a similar sentence, where the first sentence was terminated after 21 days but before 43 days.

APPENDIX B—continued

2. Where a sailor is sentenced to two or more warrant punishments in any period of twelve months it is open to the Commanding Officer if he thinks fit, to give an assessment of Poor, although not obligatory under Clause 1.

1863. Reassessment of Conduct When Warrant Punishment Quashed or Varied after Becoming Effective. Where a warrant punishment that has become effective is quashed or varied by a Flag Officer or Commodore (*see* 1949 (2)) or by the Naval Board, the Commanding Officer is to reconsider the conduct assessment given at the time the original punishment was imposed and, if appropriate, is to cancel the original assessment and submit a new one.

1864. Reports of Conduct Assessments. A report of a sentence of punishment rendered on Form PD 1 will, without additional report, cause the Service Record to be amended to record—

- (a) a break in VG conduct;
- (b) the award of the maximum permissible conduct assessment consistent with the punishment awarded; and
- (c) the new start date of VG conduct.

2. At the time that Form PD 1 is being completed, the Commanding Officer is to review the offenders conduct record and if he decides to award a discretionary assessment the details of the assessment are to be notified on Form PD 1. If discretion is not exercised, this section of the form should not be completed.

3. Any other occasion on which the Commanding Officer exercises his discretion to award a break in VG conduct and a discretionary conduct assessment the decision is to be notified on Form PP 5 or PD 12 if arising from conviction by the Civil Power.

1865. Variation of Assessments. Except as provided in 1863, an assessment of conduct may be varied only by the Naval Board. The Commanding Officer is to refer to Navy Office any case where an error is discovered in an assessment of conduct.

CHAPTER 18—SECTION VII—GOOD CONDUCT AND GOOD SERVICE BADGE

1871. Good Conduct Badges may be awarded to sailors of the Permanent Naval Forces qualified by service (*see* 1872) and conduct (*see* 1873).

1872. Service Qualification. The periods of qualifying service for the award of good conduct badges are as follows—

First badge .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	4 years
Second badge .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	8 years
Third badge .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	12 years

2. For the purposes of this article "qualifying service" means—

- (a) continuous full time service on full pay, otherwise than as a commissioned or subordinate officer, in the permanent armed forces of any British Commonwealth country; and

APPENDIX B—continued

- (b) previous continuous full time service on full pay as a reservist under Sub-section (3) or (7) of Section 32 of the Naval Defence Act or under Section 50B of the Defence Act or while serving voluntarily under Sub-section (6) of Section 32 or Sub-section (3) of Section 32A of the Naval Defence Act where such voluntary service is in a vacancy in the establishment of the Permanent Naval Forces,

but does not include—

- (c) service before absence from the Permanent Naval Forces for a period of five years or more (for the purpose of calculating a period of absence any time served as in (b) above will not be counted as part of the five years); or
- (d) service before desertion if the "R" is not removed.

1873. Conduct Qualification. The minimum conduct requirement for the award of a good conduct badge is continuous VG conduct during the two years of qualifying service immediately preceding the award of the badge.

2. For the award of a second or third badge, a sailor must, in addition to the conduct requirement in Clause 1, have been properly in continuous possession of the preceding badge or badges for the twelve months of actual service immediately preceding the award, except—

- (a) when badges are awarded consequent on removal of "R"; or
- (b) when, after removal of "R", the sailor becomes otherwise eligible for the award of a second or third badge within twelve months of the date of removal.

When the sailor is allowed to count service that previously was not reckonable as qualifying service, this service counts towards the period of twelve months actual service.

1874. Awarding Badges. The Service Record maintained by EDP shows the due date for the award of the next good conduct badge. Events, affecting this due date, reported to EDP will cause the due date to be amended.

2. Three weeks prior to the date on which a good conduct badge is due to be awarded, notification will be despatched from EDP to the Commanding Officer, informing him that the award of a badge is due. The Commanding Officer may—

- (a) award the badge on the due date;
- (b) defer award of the badge to a new due date, being not less than three or more than six months after the original due date; or
- (c) dispense altogether with the making of an award because the sailor has, in his opinion, failed to reach the necessary standard of conduct.

In considering these alternatives, he is to bear in mind that good conduct badges represent the highest standard of conduct in the Service and should not be awarded, or restored, as a matter of course merely because the sailor has avoided major punishment.

APPENDIX B—continued

3. If the Commanding Officer decides to award the badge there is no need to report this fact to EDP and the Service Record will be amended automatically. Advice of the pay accounting action taken is to be advised on Form AS 161b.

4. If the Commanding Officer decides to dispense altogether with the making of an award, a break in continuity of VG conduct is obligatory, *see* 1859 (1) (d). The decision not to award the badge is to be reported on Form PA 17 before the due date of the award. If it is likely that the report will not be received in the EDP Centre by the due date, the information on the form is also to be signalled to Navy Office. A VG conduct break and an assessment of Good will be automatically awarded on the sailors record on receipt of a non-award report. If, however, the Commanding Officer decides to award a discretionary assessment of Poor this decision is to be notified on Form PP 5.

5. **Deferment of Award.** If the Commanding Officer decides to defer the award of the badge, the decision is to be advised to Navy Office on Form PA 17 before the due date of the award. The deferment will be recorded on the main personnel file but not on the Service Record. On conclusion of the period of deferment the Commanding Officer may—

- (a) award the badge on the new due date; or
- (b) dispense altogether with the making of the award because the sailor has, in his opinion, still failed to reach the necessary standard.

6. If, on conclusion of the period of deferment, the Commanding Officer decides to award the badge, notification of the award is to be made to Navy Office on Form PA 17. Advice of pay accounting action taken is to be advised on Form AS 161b.

7. If on the conclusion of the period of deferment the Commanding Officer decides to dispense altogether with the making of the award, a break in continuity of VG conduct is obligatory, *see* 1859 (1) (d), and will be made automatically on receipt of Form PA 17 notifying the decision to dispense altogether with the award. If, however, the Commanding Officer decides to award a discretionary assessment of Poor this decision is to be notified on Form PP 5.

8. If a sailor is posted during the period of deferment, the Commanding Officer is to make on Form AS 264, before the despatch of the form to the sailors new ship, a recommendation regarding the award of the badge on conclusion of the period of deferment.

1875. Re-entrants, New Entrants with Former Service in Forces Other Than the Navy, and Reservists. On re-entry into the Permanent Naval Forces, a sailor who has been out of those Forces for less than five years resumes any good conduct badges held when he left those Forces.

2. Where a sailor newly entered into the Permanent Naval Forces has sufficient previous qualifying service in Forces other than the Navy, he may with the approval of the Naval Board be awarded a badge or badges on entry if his conduct during such former service was continuously VG (or the equivalent thereof) during—

- (a) the last two years, for the award of one badge;
- (b) the last three years, for the award of two badges; or
- (c) the last four years, for the award of three badges.

APPENDIX B—continued

3. A sailor of the Naval Emergency Reserve Forces or the Citizen Naval Forces who renders continuous full time service—

- (a) under Sub-section (3) or (7) of Section 32 of the Naval Defence Act or under Section 50B of the Defence Act—whether or not rendered in a vacancy in the establishment of the Permanent Naval Forces; or

(b) in a vacancy in the establishment of the Permanent Naval Forces, resumes, on commencing that service, any good conduct badges held on discharge from the Permanent Naval Forces where the period between commencing such service and discharge from the Permanent Naval Forces does not exceed five years. Such service, however, does not count for the award of further badges except as provided in Articles 1871 and 1872.

1876. Variation of Awards and Restorations. The award or restoration of a good conduct badge may be varied only by the Naval Board. The Commanding Officer is to refer to Navy Office any case where a badge was erroneously awarded or awarded on the wrong date.

2. On the recovery of good conduct badge pay paid as a result of an erroneous award, *see* ABR 5020 Naval Pay Instructions.

1877. Good Conduct Badge Pay. Instructions regarding good conduct badge pay are contained in ABR 5020 Naval Pay Instructions.

1878. Good Service Badges are awarded in peace-time to sailors of the Royal Australian Naval Reserve as an encouragement to keenness and efficiency, in accordance with the Naval Reserve Regulations and Instructions. The badges are unpaid.

2. Good service badges are worn in the same manner as good conduct badges and in conjunction with them, but the combined number must not exceed three.

CHAPTER 18—SECTION VIII—LONG SERVICE AND GOOD CONDUCT MEDAL AND GRATUITY

1885. The Long Service and Good Conduct Medal may be awarded to sailors qualified by service and conduct.

1886. Qualifications. To be qualified by service and conduct a sailor must—

- (a) have completed fifteen years qualifying service with continuous VG conduct and with previous conduct in service over the age of eighteen years, not below Good;
- (b) hold three good conduct badges; and
- (c) be serving on an engagement to complete 20 years service over the age of 20 years. (In the case of a sailor who re-entered within five years of discharge, prior service after attaining the age of 20 years counts for the purpose of this paragraph),

and must not have been convicted of desertion at any time during his career (but *see* 1889).

APPENDIX B—continued

2. For the purpose of this article "qualifying service" means—

- (a) continuous full time service on full pay, after attaining the age of eighteen years, otherwise than as a commissioned or subordinate officer, in the permanent armed forces of any British Commonwealth country; and
- (b) continuous full time service on full pay by a reservist in time of war, in time of defence emergency, while called out under Section 32 (2) of the Naval Defence Act, or while serving voluntarily under Section 32 (6) or 32A (3) of that Act,

but does not include service before absence from the Permanent Naval Forces for a period of five years or more. (For the purpose of calculating a period of absence, any time during which the sailor was a member of a reserve and, as such, liable for periodical training, is to be disregarded.)

1887. Service Not to Count Twice. If a medal is awarded, taking into account service which has previously been calculated towards the award of any other Long Service Medal, the latter medal is to be surrendered on the award of the Long Service and Good Conduct Medal, because the same period of service is not permitted to count towards the award of more than one medal.

1888. Recommendations for Award. The date on which a sailor is due to qualify by service and conduct for the award of the Long Service and Good Conduct Medal is maintained on the EDP Personnel Record File. Eight weeks before the sailor establishes eligibility by service and conduct for the award of the medal, a letter is dispatched to his Commanding Officer informing him of the date on which the sailor will be eligible for the award.

2. The Commanding Officer is to satisfy himself before recommending the award of the medal that the sailor's general bearing and behaviour have reached the highest standard and that the award is in all respects deserved. Recommendations are not to be made as a matter of course because a sailor has avoided major punishment.

3. If the Commanding Officer recommends the award of the medal, Form AS 218 is to be completed and forwarded to Navy Office.

4. If the Commanding Officer refrains from recommending a sailor who is otherwise eligible he is to forward advice of his decision by letter to Navy Office, and is to attach a copy of the letter to the sailor's Form AS 264. Should the sailor be recommended for the award of the medal at some subsequent date this letter is to be cited when referring the recommendation to Navy Office.

1889. Special Recommendations. The Commanding Officer may make a special recommendation to Navy Office for the award of the medal to a sailor who is ordinarily disqualified by a conduct assessment of Poor or by a conviction of desertion if the sailor has, since that assessment, otherwise qualified in accordance with Article 1886 (1)(a), (b) and (c), and—

- (a) displayed heroism or gallantry in action or rendered special service in an emergency; or
- (b) completed an additional three years of qualifying service (making a continuous period of eighteen years).

APPENDIX B—continued

2. For the purpose of making a special recommendation in regard to a sailor who has a conviction for desertion, "service" in Article 1886 (1)(c) does not include service preceding the period of desertion.

1890. Presentation of Medal. The medal is to be presented to the sailor, where possible by the Commanding Officer before the ship's company, on the date when the award is due or on receipt of approval from Navy Office, whichever is the latter.

2. The presentation of the medal is to be reported to Navy Office on Form PA 17. (See also ABR 5063.)

1891. Misconduct Pending Presentation. If the sailor's conduct falls below the requisite standard in the interval between the Commanding Officer's recommendation and the due date for the award, Navy Office is to be informed by signal. The medal is not to be awarded and, if received in the ship, is to be returned to Navy Office with an explanatory letter.

2. If the presentation of the medal is not made on the due date and the sailor is, after the due date and before the medal is presented, convicted of a Naval offence and—

- (a) that offence or the punishment imposed automatically involves loss of a medal; or
- (b) the punishment of deprivation of the Long Service and Good Conduct Medal would have been imposed if the medal had been in the sailor's possession at the time of punishment,

the Commanding Officer is not to present the medal, but is to report the matter to a Flag Officer who may—

- (c) direct that the medal is to be regarded as having been awarded on the due date, and deprived; or
- (d) report the matter to Navy Office.

3. If the presentation of the medal is not made on the due date and the sailor is, after the due date and before the medal is presented, deprived of one good conduct badge the medal is not to be presented until the badge is restored.

1892. Gratuity and Additional Allowance. On the payment of a gratuity to a sailor who has become entitled to the Long Service and Good Conduct Medal and the crediting of an additional allowance for each subsequent year of qualifying service with VG conduct, see ABR 5020 Naval Pay Instructions.

1893. Clasp to Medal. A sailor holding the medal, who completes a further fifteen years of qualifying service with the conduct qualification required for the award of a medal, may be awarded a clasp to the medal. The procedure for Captains recommendation and presentation of the clasp and reporting award of the clasp is the same as for the medal. The award of a clasp does not entitle the recipient to any further gratuity or allowance. Recommendations for the award are to be made on Form AS 218 endorsed "Clasp only".

1894. Reserve Long Service and Good Conduct Medals are awarded to sailors of the Naval Emergency Reserve Forces and the Citizen Naval Forces in accordance with the Naval Reserve Regulations and Instructions.

APPENDIX B—continued

CHAPTER 19—DISCIPLINE—PART II

RI 1951A. Date From Which Sentence Begins. QR & AI 1951 does not apply.

2. On the commencement of summary sentences of detention, *see* 2025.

3. A punishment which accompanies a summary sentence of detention takes effect on the day on which the punishment of detention takes effect, but *see* 2015 on punishments accompanying a suspended sentence of detention.

4. Any other summary sentence takes effect—

(a) in the case of a warrant punishment—on the date on which the warrant is formally read; or

(b) in the case of a non-warrant punishment—on the date on which the sentence is awarded.

5. The effective date of the award of the punishment is to be reported on Form PD 1 (*see also* ABR 5063).

RI 1962A. Duration of Punishment. Clauses 6, 7 and 8 of QR & AI 1962 do not apply.

2. *See*—

(a) Article 1072 on reporting sailors in the second class for conduct;

(b) Article 1067 for notations on Form AS 264 when a sailor in the second class for conduct is posted to another ship;

(c) ABR 18 Pay and Accounting System Instructions for pay and accounting procedures when a sailor is in the second class for conduct.

RI 1969A. Deprivation of Long Service and Good Conduct Medal. QR & AI 1969 does not apply.

2. This punishment is applicable to sailors holding the RAN Long Service and Good Conduct Medal or Reserve Long Service and Good Conduct Medals.

3. Deprivation of the medal is mandatory when a sailor is awarded any of the following punishments—

(a) Imprisonment, *see* QR & AI 1955.

(b) Dismissal, *see* QR & AI 1957 (4).

(c) Detention, *see* QR & AI 1955 (9).

(d) Reduction in rank, *see* QR & AI 1959 (3).

(e) Reduction to the second class for conduct, *see* QR & AI 1961 (f).

(f) Cells, *see* QR & AI 1967 (1).

(g) Deprivation of two or more good conduct badges, *see* QR & AI 1971 (3).

(h) Deprivation of a good conduct badge on a second occasion after the award of the medal, *see* QR & AI 1971 (3).

4. A sailor may be deprived of the medal without being deprived of any good conduct badge.

APPENDIX B—continued

5. **Forfeiture of Medals.** Forfeiture of the Long Service and Good Conduct Medal (i.e., removal of the medal by administrative means) is mandatory when—

(a) the sailor is convicted of desertion unless he is deprived of the medal under Clause 3;

(b) the sailor's VG conduct is broken and his conduct is assessed as inferior to VG except when the Commanding Officer—

(i) deprives the sailor of one good conduct badge without imposing the punishment of deprivation of the medal; or

(ii) assesses the conduct of the sailor as inferior to Very Good in consequence of a civil conviction (*see* 2044A);

(c) the sailor is deprived of a good conduct badge and it is not restored to him within one year from the date of deprivation.

Forfeiture under this clause is to be effected when the break in VG conduct occurs. The sailor is to be formally informed of the forfeiture and when he appears before the Commanding Officer for this purpose he should not be treated as a defaulter (e.g., he should keep his cap on). The Commanding Officer is to send the medal to Navy Office with a statement of the circumstances in which the deprivation was incurred. No other report is required.

6. **General.** Deprivation or forfeiture of the medal involves loss of the allowance payable to holders of the medal, *see* ABR 5020, Naval Pay Instructions.

7. The rules governing the forfeiture of medals other than the Long Service and Good Conduct Medal are contained in QR & AI 2069, 2211, 2227.

RI 1970A. Restoration of Medals. QR & AI 1970 does not apply.

2. A Long Service and Good Conduct Medal of which a sailor has been deprived or which he has forfeited may be restored with the approval of the Naval Board—

(a) at any time, if the sailor has rendered some special service;

(b) on completion of five years service with continuous VG conduct;

(c) in special cases, where the period of continuous VG conduct between the date of deprivation or forfeiture of the medal and the date of completion of engagement is less than five years.

3. Where a sailor is discharged from the Navy before completing five years VG service required for restoration of the medal and subsequently re-enters, any further service with VG conduct counts for the purpose of qualifying for restoration of the medal.

4. The provisions of this article do not apply to the restoration of Reserve Long Service and Good Conduct Medals, the conditions for which are contained in Naval Reserve Regulations and Instructions.

5. Restoration of the Long Service and Good Conduct Medal is to be reported on Form PA 17.

1971A. Deprivation of Badges. QR & AI 1971 does not apply.

APPENDIX B—continued

2. Deprivation of any badges a sailor may hold is mandatory if he is awarded any of the following punishments—

(a) Imprisonment, *see* QR & AI 1955.

(b) Dismissal, *see* QR & AI 1957 (4).

(c) Detention, *see* QR & AI 1955 (9).

(d) Reduction to the second class for conduct, *see* QR & AI 1961 (f).

(e) Cells, *see* QR & AI 1967 (1).

3. Where a sailor holds the Long Service and Good Conduct Medal, he cannot be deprived of two or more badges, or be deprived of one badge for the second time since the award of the medals, unless he is also deprived of the medal, *see* 1969A (3).

4. Deprivation of one or more badges involves loss of the corresponding amount of Good Conduct Badge pay, *see* ABR 5020 Naval Pay Instructions.

RI 1972A. Restoration. If the Commanding Officer decides to delay the restoration of a badge the decision is to be reported on Form PA 17.

2. The receipt of this form will cause the consequential inferior conduct assessment of "Good" and new commencing date for Very Good Conduct to be endorsed on the service records. If an assessment other than "Good" is considered applicable the decision is to be notified on Form PP 5.

RI 1973A. Good Service Badges. Deprivation of Good Service Badges of reserve sailors on full time service is to be reported on Form PD 1. Restoration, deferment and award after deferment are to be reported on Form PA 17.

TABLE I

RI 1991A. Description of Summary Punishments. This table is not comprehensive and where necessary the relevant explanatory articles should be consulted. Each punishment is deemed to be inferior in degree to every punishment preceding it.

Note: These punishments, in their application to Junior Recruits and Artificer Apprentices under training are subject to the modifications set forth in ABR 697—Junior Recruit Training Manual and ABR 91—Naval Artificer Apprentices General Instructions.

Punishment Number	Authorized Summary Punishment	Maximum Punishment	Whether applicable to—			Whether Warrant Required	Superior Authority Required (if any)	Obligatory Accompanying Punishments (if applicable)	Optional Accompanying Punishments	Automatic Accompanying Penalties	Explanatory Articles of RI
			Chief Petty, Petty and Noncommissioned Officers	Leading Ranks	Sailors below Leading Rank						
A	B	C	D	E	F	G					
1	Imprisonment	3 months	Yes. <i>See</i> Note (2)	Yes. <i>See</i> Note (2)	Yes, but <i>see</i> Note (2) for sailors	Yes	C-in-C or an officer of flag rank or the Commodore-in-Charge, Hong Kong, but <i>see</i> QR & AI 1946 (7)	4, 7	2 (10, 11, 12, but only if the maximum punishment under the Act for the offence is dismissal with disgrace or more)	(a) Stoppage of pay for any period of imprisonment. (b) Except in connection with promotion (<i>see</i> ABR 10) loss of time for the period of sentence less any remission. (c) Break in "Very Good Conduct" with consequent effect on promotion (ABR 10) and eligibility for good conduct badges (RI 1873). (d) Effect upon conduct assessment as prescribed in Ch.18 Sec. VI and upon eligibility for LS and GC Medal (RI 1886).	1955-1956
2	Dismissal from HMA Service		Yes	Yes	Yes	Yes	Naval Board		3, 4, 7, 11		1957
3	Detention	3 months	Yes. <i>See</i> Note (1)	Yes. <i>See</i> Note (2)	Yes, but <i>see</i> Note (2) for sailors holding Good Conduct Badges	Yes	C-in-C or an officer of flag rank or the Commodore-in-Charge, Hong Kong, but <i>see</i> QR & AI 1946 (7)	4, 7	10, 11, 12	(a) Stoppage of pay for period of detention. (b) Except in connection with promotion (<i>see</i> ABR 10) loss of time for the period of sentence less any remission. (c) Break in "Very Good Conduct" with consequent effect upon future promotion (ABR 10) and eligibility for good conduct badges (RI 1873). (d) Effect upon conduct assessment as prescribed in Ch.18 Sec. VI, and upon eligibility for LS and GC Medal (RI 1886).	1955-1956
4	Reduction in Rank		Yes	Yes	No	Yes	C-in-C or an officer of flag rank, but <i>see</i> QR & AI 1946 (4) and (7)	7 (LS and GC Medal only)	5, 7, 10, 11, 12	(a) Break in "Very Good Conduct" with consequent effect on promotion (<i>see</i> ABR 10) and eligibility for good conduct badges (RI 1873). (b) Effect on conduct assessment as prescribed in Ch.18 Sec. VI, and upon eligibility for LS and GC Medal (RI 1886).	1958-1960

TABLE I—continued

Punishment Number	Authorized Summary Punishment	Maximum Punishment	Whether applicable to—			Whether Warrant Required	Superior Authority Required (if any)	Obligatory Accompanying Punishments (if applicable)	Optional Accompanying Punishments	Automatic Accompanying Penalties	Explanatory Articles of RI
			Chief Petty, Petty and Noncommissioned Officers	Leading Ranks	Sailors below Leading Rank						
A	B	C	D	E	F	G					
5	Reduction to the second class for conduct	See QR & AI 1962	Yes, but only if reduced below leading rank. See also Note (4)	Yes, but only if reduced below leading rank	Yes	Yes	C-in-C or an officer of flag rank or Commodore-in-Charge, Hong Kong, but see QR & AI 1946 (7)	7	10, 11	(a) Deductions of one-sixth from total daily pay (see QR & AI 1961 and ABR 5020). (b) Break in "Very Good Conduct" with consequent effect on promotion (see ABR 10) and eligibility for good conduct badges (RI 1873). (c) Effect on conduct assessment as prescribed in Ch. 18 Sec. VI, and upon eligibility for LS and GC Medal (RI 1886).	1961-1964
6	Solitary confinement in a cell or under a canvas screen on board	14 days	No. See also Note (4)	Yes, but only for leading ranks who cannot be reduced in rank (QR & AI 1968)	Yes	Yes	See QR & AI 1928	7	10, 11, 12	(a) Forfeiture of pay for period of confinement. (b) Except in connection with promotion (ABR 10) loss of time for period of sentence. (c) Break in "Very Good Conduct" with consequent effect on promotion (see ABR 10) and eligibility for good conduct badges (RI 1873). (d) Effect on conduct assessment as prescribed in Ch. 18 Sec. VI, and upon eligibility for LS and GC Medal (RI 1886).	1965-1968
7	Deprivation of good conduct badges and of good conduct medal		Yes. See also Note (4)	Yes	Yes	Yes	C-in-C or an officer of flag rank for medal but see QR & AI 1946 (7). See QR & AI 1928 re badges.		9, 10, 11, 12, 14	(a) Loss of two or more badges entails deprivation of LS and GC Medal. (b) Loss of badge on second occasion subsequent to the award of the LS and GC Medal entails deprivation of medal. (c) Break in "Very Good Conduct" with consequent effect on future promotion (see ABR 10) and eligibility for good conduct badges (RI 1873). (d) Effect on conduct assessment as prescribed in Ch. 18 Sec. VI and upon eligibility for LS and GC Medal (RI 1886).	

TABLE I—continued

Punishment Number	Authorized Summary Punishment	Maximum Punishment	Whether applicable to—			Whether Warrant Required	Superior Authority Required (if any)	Obligatory Accompanying Punishments (if applicable)	Optional Accompanying Punishments	Automatic Accompanying Penalties	Explanatory Articles of RI
			Chief Petty, Petty and Noncommissioned Officers	Leading Ranks	Sailors below Leading Rank						
A	B	C	D	E	F	G					
8	Reprimand by Captain		Yes. See also Note (4)	Yes	No	No			10, 11, 12		1974
9	Extra work and drill	14 days	No	No	Yes	No			10, 11, 12	(a) Leave stopped for period of punishment. (b) Subject to the routine set out in QR & AI 1975.	1975-1976
10	Stoppage of leave	30 days	Yes. See also Note (4)	Yes	Yes	No			11	(a) Leave stopped for period of punishment. (b) Subject to the routine set out in QR & AI 1975.	1977
11	Mulcts for improper absence	See 1978	Yes. See also Note (4)	Yes	Yes	No					1978-1983
12	Mulcts of pay for drunkenness	1 day	Yes. See also Note (4)	Yes	Yes	No					1984
14	Extra rank or drill not exceeding two hours a day	7 days	No	No	Yes	No					1986
15	Admonition		Yes. See also Note (4)	Yes	Yes	No					1987

(1) Chief Petty Officers and Petty Officers may be awarded imprisonment or detention for desertion only; but those who cannot be reduced in rank may be awarded either punishment for the offences enumerated in QR & AI 1956 (2).

(2) Leading ranks and sailors wearing good conduct badges cannot be sentenced summarily to imprisonment or detention except for offences enumerated in QR & AI 1956 (2).

(3) Naval Dockyard Police. In the case of sailors of the Naval Dockyard Police, regulation 132 of the Naval Forces Regulations authorises the imposition of the punishment of stoppage of pay in lieu of the minor punishments (punishments Nos. 5 to 15) subject to the following conditions—

	Maximum Amount of Stoppage	Remarks
(a) If the Captain is not below the rank of Lieutenant-Commander	\$10	Stoppages in excess of \$10 require Naval Board approval.
(b) If the Captain is below the rank of Lieutenant-Commander	\$4	Stoppages in excess of \$4 require Naval Board approval; but if the Captain is serving under the orders of a senior officer with powers to award up to \$10, reference is to be made to that officer.

APPENDIX B—continued

TABLE II

RI 1991A. Index of Offences Suggesting the Normal Maximum Punishment that may be Awarded for Each.

<i>Offence</i>	<i>Normal Max. Summary Punishment</i>
A. Desertion	
Desertion (<i>see also</i> QR & AI 2062)	3
B. Absence Without Leave (Including Breaking Out of a Ship)	
Breaking out of ship or boat or away from working or other party, etc., without leave but not with intent to desert	3
Absence over leave (<i>see also</i> QR & AI 2062)	3
C. Insubordination	
Mutiny	1
*Wilful disobedience, including disobedience of orders of leading ranks charged under Section 39 of the Naval Discipline Act and punished by warrant	3
†Insolence or contempt to superior officers or leading ranks	3
†Disrespect towards superiors	4
Striking a superior officer or leading rank	3
D. Other Offences	
Quarrelling, fighting or assault—	
Riotous conduct	3
Impeding the Regulating Staff of the ship in the performance of their duties	3
Violent assault	1
Fighting or assaulting	4
Quarrelling	6
Using provoking language tending to create bad feeling or dis- turbance	3
Violently resisting arrest by patrol	3
<p>* Non-compliance with ship's orders, and failure to carry out an order or slackness in obeying an order, should not be regarded as coming under this section, but should normally be dealt with as offenders against good order and Naval discipline.</p> <p>† Minor offences of making an improper remark to a superior officer or leading rank should be dealt with under D.</p>	

APPENDIX B—continued

TABLE II—continued

Offence	Normal Max. Summary Punishment
<i>Deception—</i>	
Making false charge	3
Giving false evidence, or prevaricating at investigations, or lying ..	3
Answering call for another man with intent to deceive	5
Obtaining leave under false pretences	4
<i>Dirty and Untidiness—</i>	
Not being in proper dress, or being slovenly or dirty in person or dress	9
Committing a nuisance	6
<i>Drunkenness—</i>	
Drunkenness at sea, or on duty	3
Habitual drunkenness	3
Drunkenness	4
<i>Duty, Neglect or Avoidance of—</i>	
Deserting post	3
Sleeping on watch	3
Skulking from, or neglect or improper performance of important duty	3
Skulking from, slack or improper performance or neglect of common duty	5
Not answering muster	9
Wilfully producing, concealing, aggravating or feigning any disease or infirmity to the prejudice of the Service	3
Wilfully omitting to detect and report all offenders against the Naval Discipline Act; or wilfully neglecting to assist others in the detection and apprehension of such offenders	3
Inattention at drills or exercises	9
<i>Good Order, Offences Against—</i>	
Smuggling	3
Improperly bringing liquor on board or into a boat	3
Trafficking in, receiving, giving away, playing for or selling any wine, spirit or beer	4
Trafficking in, selling, receiving or giving away any ticket, warrant or other document, authorising the provision of transport at government expense	4
Gambling	4
Lending money at interest	4
Misbehaving at Divine Service	9
Making a noise or talking at quarters or in the ranks	9
Spitting about the decks	9
Sleeping in the tops, or boats, or other improper places	9
Throwing things overboard from improper places	9

APPENDIX B—continued

TABLE II—continued

Offence	Normal Max. Summary Punishment
<i>Hammocks, Clothes or Bedding—</i>	
Selling or making away with medals or clasps	3
Selling without permission or improperly disposing of clothes or bedding	3
Examining another man's bag or locker	6
Using another man's clothes, hammock or bedding	6
General neglect with regard to hammocks, bags or clothes	9
Neglect to maintain kit to required compulsory standard	9
<i>Immorality—</i>	
Indecent assaults, or indecent acts of a grossly immoral character	1
Cursing, swearing or making use of obscene language	4
<i>Miscellaneous—</i>	
Wilfully breaking, wasting or injuring public stores, or wilfully destroying or injuring the clothes or effects of persons in the Royal Australian Navy or others	4
<i>Note—In either of these cases the amount charged, if any, against the offender's pay under RI 4891, is to be taken into consideration and duly recorded as provided for in that article.</i>	
Culminating offence of a series of small offences	5
Maliciously throwing anything from aloft, down hatchways, into engine room, etc.	3
Negligently hoisting, lowering, throwing or dropping anything from aloft	9
Carelessness with respect to arms	9
<i>Sentry—</i>	
Striking or forcibly interrupting a sentry	3
Interrupting or not obeying the lawful orders of a sentry, or using abusive language to a sentry	6
<i>Smoking and Fire—</i>	
Negligently using fire or lights	3
Smoking out of hours or in improper places	9
Having lights after hours	9
<i>Dishonesty—</i>	
Theft	1
Receiving stolen goods or money knowing them to have been stolen	1
Fraud or cheating	1
Misappropriating public stores or money	1
Failing to hand over to the proper authority things, which, to his knowledge, had come into the possession of the accused without the consent of the owner	5

TABLE III

RI Article 1991A Consequential Effect of Warrant Punishments.

1 Punishment	2 Highest Conduct Assessment if Otherwise Eligible	3 Minimum Direct Loss of Pay (b) (c)	4 Approximate Normal Loss of GC Badge Pay (a)	5 Whether Still Eligible for Award of LS and GC Medal	6 Whether Still Eligible to Hold LS and GC Medal	7 Notes
Deprivation of GC Badges— 1 Badge	"VG*" if "VG*" not previously awarded, otherwise "Good"	See Col. 4	\$16, but may be up to \$82 (\$98)	Yes. If "VG*" assessment Very Good Conduct considered unbroken (h)	Yes, if first deprivation since award of Medal, otherwise No	<p>(a) The higher figures include normal maximum loss due to delay in award of next badge where involved. Those in brackets are for a second time within 3 years.</p> <p>(b) In cases of leave breaking and drunkenness mulcts of pay are also made.</p> <p>(c) Pay lost in cells is active pay and allowances, other than uniform allowance and allowance payable in lieu of marriage and separation allowances.</p> <p>(d) Pay lost while undergoing imprisonment or detention is all pay and allowances except uniform allowance in detention. On marriage allowance see ABR 5020. On payment to members in the Military Corrective Establishment, Holworthy, see RI 2021B (9).</p> <p>(e) Time in imprisonment, detention or cells is forfeited for badge purposes.</p>
2 Badges	"Good"	See Col. 4	\$49, but may be up to \$115 (\$180)	Yes (h)	No	
3 Badges	"Good"	See Col. 4	\$98	Yes (h)	No	
Deprivation of LS and GC Medal	"Good"	None, but forfeits additional allowance (See ABR 5020)	..	..	..
Reduction in rank	"Good"	Difference of pay until re-promoted	..	Yes (h)	No	
Cells (e)— 3-5 days	"VG*" if within first 4 years service otherwise "Good"	One days pay for each day confined (c)	Must have been deprived of any badges held with financial effect as above	Yes (h)	No	
6-14 days	"Good"	One days pay for each day con-	Must have been deprived of any	Yes (h)	No	

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Imprisonment or Detention (e) (f) 10-21 days	"Good"	One days pay for each day served (d) (g)	badges held with financial effect as above Must have been deprived of any badges held with financial effect as above	Yes (h)	No	<p>(f) Imprisonment and detention involve reduction in rank to below Leading Rank except as provided in QR & AI Article 1956 (2).</p> <p>(g) Remission of sentence may be obtained by good conduct, subject to a minimum period served.</p> <p>(h) Where not assessed below "Good" a sailor may be eligible for award of LS and GC Medal if he can complete 15 years unbroken "VG" Service and be engaged to complete 20 years service over 20. Where assessed below "Good" a sailor may be eligible for award of LS and GC Medal only under exceptional circumstances—See RI Article 1889.</p> <p>(i) Break in continuity of "Very Good" conduct may affect promotion or re-promotion, in which case loss will include difference of pay between higher and lower rank for the period promotion or re-promotion is postponed. (ABR 10)</p>
over 21 days	"Poor"	One days pay for each day served (d) (g)	Must have been deprived of any badges held with financial effect as above	No (h)	No	
Reduction to 2nd Class for Conduct for total period in one year— 21 days	"VG*" if "VG*" not previously awarded otherwise "Good"	One-sixth of each days pay while in 2nd Class for Conduct. See ABR 5020	Must also have been deprived of any badges held. Time in 2nd Class is time forfeited for badge purposes.	Yes (h)	No	
42 days	"Good"	One-sixth of each days pay while in 2nd Class for Conduct. See ABR 5020	Must also have been deprived of any badges held. Time in 2nd Class is time forfeited for badge purposes.	No (h)	No	
Over 42 days	"Poor"	One-sixth of each days pay while in 2nd Class for Conduct. See ABR 5020	Must also have been deprived of any badges held. Time in 2nd Class is time forfeited for badge purposes.	No (h)	No	

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APPENDIX B—continued

CHAPTER 20—DISCIPLINE—PART III

RI 2016A. Effect on VG Conduct. QR & AI 2016 does not apply.

2. A sentence of imprisonment or detention even if suspended automatically causes a break in VG conduct and the award of a conduct assessment below VG. See also RI 1864.

3. If a suspended sentence is subsequently remitted no change will be made to the conduct assessment awarded at the time of the suspension of the sentence.

4. If the suspension of a sentence is terminated and the member committed, a further break in VG Conduct will be recorded on the day of the committal of the offender, and the conduct assessment appropriate to the sentence will be automatically recorded unless the Commanding Officer exercises his discretion to award a lower assessment. If a lower assessment is awarded this decision is to be reported on Form PP 5.

RI 2017A. Record of Suspension of Sentence. QR & AI 2017 does not apply.

2. When a member is sentenced to imprisonment or detention and, instead of the member being committed, the sentence is suspended, the suspension is to be recorded on Form AS 241.

3. Where—

(a) a sentence of imprisonment or detention is suspended or remitted after the offender has been committed; or

(b) an offender is committed after a sentence of imprisonment or detention has been suspended,

the suspension, remission or committal is to be reported on Form PD 7.

RI 2026A. Persons Sentenced—Where Borne. QR & AI 2026 does not apply.

2. **Detention.** Sailors sentenced to detention on the Australia Station are to be borne in HMAS PENGUIN. The following documents are to be sent to HMAS PENGUIN as soon as possible—

(a) A report containing the following particulars—

(i) Full name.

(ii) Rank.

(iii) Personal number.

(iv) Full particulars of punishment awarded.

(v) Date of commencement of sentence, if known.

(b) One copy of the sailors Service Record, Form AS 264 and medical documents. (See RI 5207 Documents of Officers and Sailors Transferred and RI 4447 Medical Documents.)

3. **Detention Abroad and Imprisonment.** Persons sentenced to detention when serving outside Australia or imprisonment are to remain borne on ships books unless they have also been dismissed from the Service.

RI 2044A. Administrative Consequences of Conviction by Civil Court. QR & AI 2044 does not apply.

APPENDIX B—continued

2. When a sailor is charged before a civil court and is sentenced, placed on probation, discharged absolutely or discharged conditionally, an offence has been proved against him and the provisions of this article apply. Reports of such cases are to be made on Form PD 12.

3. **Forfeiture of Pay and Service.** A sailor is to forfeit one days pay and service for each day (or part of a day) during which he serves a sentence of imprisonment imposed by the civil court. He will, also, as a general rule, forfeit pay and service on the same scale for time spent in custody while awaiting trial and for the time spent in attending his trial, but only if the absence interferes with the performance of his normal duties on that day. The Commanding Officer may at his discretion remit this forfeiture altogether if the loss of service is trivial and may reduce it if the absence is spread over a number of days and the full forfeiture would, in his opinion, be excessive. No sailor shall forfeit more than one days pay and service for any one calendar day.

4. There may be three or more separate periods for which a sailor forfeits pay and time in respect of a single conviction—

(a) from the date of his arrest (unless he is on leave at the time);

(b) from the expiration of his leave (if he is arrested during leave and is still in custody when his leave expires); or

(c) from the date of surrender to bail (if he is allowed to return to his ship pending trial).

The total amount of time forfeited whilst in civil custody will be shown on the Service Record.

5. **Other Consequences.** An officer considering other administrative consequences following a civil conviction must realise that he is not entitled to punish the sailor again for his offence or to take account of any opinion he may have formed about the adequacy or otherwise of the sentence. The offence may, however, show either by itself and despite a previous good Naval record, or taken in conjunction with an unsatisfactory Naval record, that the sailor is not fit to remain in the Navy (in which case the Naval Board have an inherent right to dispense with his services) or that he is not fit, at any rate for the time being, to have charge of other sailors (in which case he may be reverted to a lower rank, so long as he is given the alternative of leaving the Service if he so prefers). Similarly the offence may be such as to justify a break in VG conduct. A sailor who misbehaves on shore may also be deprived for the time being of the privilege of wearing plain clothes on shore. Thus the possible consequences are—

(a) discharge SNLR (Services No Longer Required);

(b) reversion with the option of discharge SNLR;

(c) a break in the continuity of Very Good Conduct and the award of an assessment below VG;

(d) the withdrawal of the privilege of wearing plain clothes.

6. Attention is drawn to the following facts—

(a) reversion in consequence of a civil conviction automatically involves a conduct assessment not higher than Good and a break in Very Good Conduct;

APPENDIX B—continued

- (b) an inferior conduct assessment (e.g., Good or Poor) in consequence of a civil conviction or under (a) may render a sailor ineligible for the Long Service and Good Conduct Medal as it involves a break in Very Good Conduct. It will not entail the loss of the medal if held;
- (c) a break in Very Good Conduct, since it affects promotion, good conduct badges, and the removal of "R", will vary in its application to sailors according to their length of service and previous record. It may have no direct consequences in so far as recent entrants are concerned. A break in Very Good Conduct, under (b), takes effect from the date on which the offence was found proved.

7. Reports on Form AS 273. When the Commanding Officer considers that action as in (a) or (b) of Clause 5 above is justified, he should submit his proposal, with a report of the trial, on Form AS 273 to the Flag Officer. The sailor is to be informed accordingly but he is not to be informed which of these courses is proposed. If the Commanding Officer considers that the proper consequence is reversion, he must remember that it will be necessary to give the sailor the option of discharge SNLR. Before this can be done Naval Board approval must be obtained. In such a case the AS 273 should indicate the rank to which the Commanding Officer considers that the sailor should be reverted. A duplicate of the AS 273 should be made for reference to the Naval Board and sent to the Flag Officer with a copy of the sailor's Service Record. On receipt of Naval Board authority the Commanding Officer should inform the sailor that approval has been given for him to be reverted to the particular rank, but that, if he prefers, he may be discharged SNLR instead and that he has 48 hours in which to make up his mind. At the end of that period he is to be discharged (see RI 0888) or reverted accordingly without further reference to higher authority. If the Commanding Officer considers that action as in (c) of Clause 5 above is appropriate and he holds the rank of Captain, he is to take action accordingly and AS 273 is not required. If he is below the rank of Captain, he is to seek approval of an officer of flag rank by submitting a report on Form AS 273. If such approval is likely to be delayed, the approval of the senior officer present will suffice, provided he is of at least Captains rank. Action as in (d) of Clause 5 above may be taken by the Commanding Officer irrespective of his rank.

8. Every sailor is to be told formally by his Commanding Officer of any action taken. When he appears before his Commanding Officer for this purpose he should not be treated as a defaulter but should keep his cap on and be dealt with after requestmen. If the sailor is in a civil prison the decision should be communicated to him in writing.

9. Appeal to a Higher Court. When notice of appeal to a higher court is given, action under this article is to be deferred pending the result of the appeal, whether or not the sailor returns to duty.

10. Recording of Action Taken. Particulars of action taken under this article are to be recorded on Form AS 241. In addition, details of the offence, the service forfeited and other consequences are to be reported on Form PD 12. Where a break in continuity of Very Good Conduct is involved, the award of an assessment below Very Good is to be included on Form PD 12. Forfeiture of pay and service is also to be reported for pay accounting action on Form FN 117.

APPENDIX B—continued

11. Rendition of Forms AS 273. Forms AS 273 are to be numbered consecutively, a new series being started on 1st January of each year. They are to be forwarded with the return of punishments (Form AS 181), see RI 2094A. When a Form AS 273 has not been necessary, the following details of the action taken by the Commanding Officer are to be inserted on Form AS 241—

- (a) Brief details of the offence and where committed (e.g., drunk and disorderly, Pitt Street, Sydney).
- (b) Sentence of the court (e.g., fined \$10).
- (c) Administration consequence (e.g., break in continuity of VG conduct with award of an assessment of Good).

RI 2055A. When Absentees to be Marked "Run". QR & AI 2055 does not apply.

2. If any sailor absents himself from his duty without leave and fails to give a good and sufficient reason for his absence, he is to be checked to absence.

3. If an absentee has not returned after seven days he is to be marked "Run" and this fact is to be reported on Form PB 13. The date of effect of the "Run" is the date on which absence began. Form FN 117 is also to be rendered. The date last marked "Run" will appear on the Service Record.

4. If the Commanding Officer should subsequently be satisfied that there was no intention to desert, he is to remove the "Run" and is to render a "Run to Absence" change on Form PA 1. See RI 0904 on involuntary absence on expiration of leave.

5. If a sailor is convicted of desertion without having been marked "Run", a "Run" report on Form PB 13 and Form FN 117 is to be rendered.

RI 2071A. Removal of R by the Naval Board. QR & AI 2071, Clauses 2-5, do not apply.

2. Three weeks prior to the date on which a sailor qualifies by service and conduct for the removal of the "Run", the Commanding Officer will be requested to forward a recommendation whether or not the "Run" should be removed.

3. If removal of the "R" is approved by the Naval Board, the "Run" will be removed and any consequential effects on pay, seniority, and Good Conduct Badges will be advised from Navy Office.

4. If removal of the "R" is not recommended by the Commanding Officer, or not approved by the Naval Board, eligibility will be reviewed at six monthly intervals from the date on which the sailor qualified by service and conduct, but the "Run" will not be removed until a recommendation to do so is received from the Commanding Officer. The removal of "R" will be effected at the end of the particular period in respect of which the recommendation was received but will not be deemed to have been removed with retrospective effect to the original date of qualifying by conduct and service.

5. Where a man has been marked "R" on more than one occasion, he will qualify for removal of the last "Run" first, then the second last, etc., under the conditions set out in QR & AI 2071, Clause 1.

APPENDIX B—*continued*

RI 2078A. Sickness of Accused Persons and Offenders. With reference to QR & AI 2078—

(a) In Clause 2, in place of the first sentence, read the following—

“Any such officers or sailors may be brought forward for medical survey in accordance with RI 4489 (2) (f).”

(b) In Clause 3, in place of the last sentence, read the following—

“This certification is only to be made by a properly constituted Medical Board of Survey, the president of which is to be the senior Naval medical officer available. If the recommendation is being made on the grounds of mental illness the accused person is first to be referred to a Naval consultant psychiatrist whose report is to be considered by the surveying medical officers.

Although the consultant psychiatrists recommendation need not necessarily be followed, should the Medical Board of Survey make recommendations at variance from this report, detailed reasons for these recommendations are to be clearly stated for the information of the Naval Board.

A copy of the Form AF Med. 7 sent to the consultant psychiatrist as well as a certified true copy of his report is to accompany Form AF Med. 23 Interim Medical Survey and is to be sent to the Medical Director-General.”

(c) The decision to substitute the notation “Shore” instead of “Run” is to be advised on Form PA 1 (*see* ABR 5063).

RI 2091A. Disciplinary Charge Sheet and Punishment Record (Form AS 241). QR & AI 2091 does not apply.

2. Form AS 241 is to be prepared in accordance with RI 2093A and the original disposed of as direct in that article.

3. The duplicates of all Forms AS 241 raised are to be retained in the Captains Office in alphabetical sequence in a loose leaf binder.

4. On each occasion on which a sailors Very Good Conduct is broken, either mandatory or at the discretion of the Captain a red line is to be drawn across the duplicate copy of the Form AS 241. This is to ensure that punishments which led to the award of one inferior conduct assessment are not taken into account when considering another.

5. Duplicate copies of Forms AS 241 are to be destroyed when a sailor is posted to another ship or establishment. For this reason it is essential that Commanding Officers seriously review conduct assessments on each occasion on which an offence, minor or major, is proved.

6. **Naval Dockyard Police.** The foregoing provisions apply to members of the Naval Dockyard Police except that when a member serves in a ship or establishment for a continuous period exceeding two years, Forms AS 241 are to be destroyed after a period of two years from the date of the offence.

(HPB 178/1/127)

(*Navy Order 446 of 1967*)

ANO 543/67



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
21st December, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

543—Sailors Course Programme—1968

The programme of sailors courses for 1968 is shown in the Appendix to this order.

2. The duration of courses shown is the period specified in appropriate syllabuses and actual course lengths may vary because of leave periods and ceremonial commitments. Training establishments are to report changes in completion dates of courses in monthly training returns (Form AS 3113) or earlier if necessary, stating reasons.

3. Re-engagement categories are currently as follows—

- Group A—4 years.
- Group B—3 years.
- Group C—2 years.
- Group D—1 year.
- Group E—Nil.

Courses are deemed to finish on the Friday of the final week, and the period of service required on completion of a course commences on the following Monday. Re-engagement rules for sailors undergoing courses are laid down in RI Article 0824 as amended by 071F/66.

4. Applications to re-engage are to be forwarded on receipt of appropriate posting notes. Should a sailor posted to a course subject to re-engaging not intend to re-engage, this is to be signalled promptly, in order that a replacement may be posted.

5. The EDP course numbers shown in the Appendix are the designators that will be used to identify each particular course on the introduction of EDP.

6. Further Courses 911850—LSRP will be considered, depending upon the requirement, but because of the increasing difficulty of scheduling these courses, sailors who are eligible for this course are to be encouraged to pass by BTT where possible.

7. Alterations and additions to the course programme will be promulgated by amendments to this order.

Amendment List

Amendment No.	Authority	Date	Inserted by	Date Inserted

APPENDIX

Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
Recruits	910700	Adult Male Recruit Training Course	CERBERUS	12	—	14.1.68 11.2.68 10.3.68 7.4.68 5.5.68 2.6.68 3.1.68 3.4.68	120
	910710	Junior Recruits (Term 1)	LEEUWIN	48	—	30.6.68 28.7.68 25.8.68 22.9.68 20.10.68 24.11.68 10.7.68 22.9.68	100-200
	910720	Junior Recruits (Term 2)	LEEUWIN				
	910730	Artificer Apprentices	NIRIMBA	34 years	—	Term 2 on completion of Term 1 8.1.68 1.7.68	92-100
Seaman	911990	CPOCOX	PENGUIN WATSON	5 3	D	12.2.68 12.8.68	2-6
	911910	POQMG..	SEA CERBERUS	3 19 (4 S' ship) 2 NBBCD	C	1.4.68 14.10.68 15.7.68	4-10
	911710	ABQMG	PENGUIN CERBERUS	17 (4 S' ship, 1 NBBCD)	—	8.1.68(2) 22.7.68 1.4.68(2) 9.9.68 6.5.68(2) 11.11.68(2)	4-10
	911920	POCD	RUSHCUTTER WATSON PENGUIN	16 4 S' ship 2 NBBCD	C	15.7.67	4-8

Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
Seaman— continued	911720	ABCD	RUSHCUTTER .. WATSON .. PENGUIN ..	16 4 S'ship 1 NBCD	—	11.3.68 15.9.68 15.7.68 18.11.68	8-16
	911700	ORDCD Acceptance	RUSHCUTTER ..	4	—	8.1.68 5.8.68 5.2.68 2.9.68 4.3.68 30.9.68 16.4.68 28.10.68 27.5.68 25.11.68	4-12
	903200	Diver	RUSHCUTTER ..	3	—	8.7.68 8.1.68 22.7.68 22.1.68 5.8.68 5.2.68 19.8.68 19.2.68 2.9.68 4.3.68 16.9.68 18.3.68 30.9.68 15.4.68 14.10.68 20.5.68 28.10.68 27.5.68 11.11.68 8.7.68 25.11.68	4-12
	903210	Diver	LEEUWIN ..	3	—	As required	4-12
	911930	POSR	PENGUIN ..	18 (4 S'ship, 2 NBCD)	C	13.5.68	2-10
	911730	ABSR	PENGUIN ..	17 (4 S'ship 1 NBCD)	—	8.1.68 22.7.68	4-10

4

911940	POUW	WATSON .. PENGUIN ..	7 4 S'ship 2 NBCD	D	19.2.68 2.9.68	6-10
911740	ABUW	WATSON .. PENGUIN ..	5 4 S'ship 1 NBCD	—	8.1.68 11.11.68 30.9.68	6-10
911900	POPT	CERBERUS .. PENGUIN ..	17 (4 S'ship) 2 NBCD	C	11.3.68	4-10
911800	LSPT	CERBERUS ..	23 (2 S'ship)	C	15.1.68 22.7.68	6-16
911950	PORP	WATSON .. PENGUIN ..	16 4 S'ship 2 NBCD	C	15.1.68 15.7.68	4-6
911750	ABRP	WATSON .. PENGUIN ..	11 4 S'ship 1 NBCD	—	15.1.68(2) 20.1.68(2) 26.2.68(2) 26.8.68(2) 16.4.68(2) 11.11.68(2)	4-9
911960	POUC	WATSON .. PENGUIN ..	15 4 S'ship 2 NBCD	C	11.3.68 3.6.68	5-8
911760	ABUC	WATSON .. PENGUIN ..	12 4 S'ship 1 NBCD	—	8.1.68(2) 30.9.68 26.2.68(2) 11.11.68(2) 20.5.68	7-13
911970	POFC	CERBERUS .. PENGUIN ..	17 (4 S'ship) 2 NBCD	C	19.2.68	4-10
911770	ABFC	CERBERUS ..	15 (4 S'ship 1 NBCD)	—	8.1.68 9.9.68 6.5.68 11.11.68	4-10
911980	POWM	CERBERUS .. PENGUIN ..	19 (4 S'ship) 2 NBCD	C	25.3.68 22.7.68	4-10
911780	ABWM	CERBERUS ..	19 (4 S'ship, 1 NBCD)	—	8.1.68(2) 9.9.68 4.3.68(2) 11.11.68(2) 13.5.68(2)	4-12

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Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Communica-tions	912910	CY	CERBERUS .. WATSON .. PENGUIN ..	13 1 2 NBCD	C	8.1.68 22.7.68	3-10
	912710	TO	CERBERUS ..	29 (1 NBCD)	—	On completion of CO course	4-12
	912920	RS	CERBERUS ..	17 2 NBCD	C	8.1.68 22.7.68	3-10
	912720	RO	CERBERUS ..	26 (1 NBCD)	—	On completion of CO course	4-12
	912930	RSS	HARMAN .. CERBERUS .. WATSON ..	5 10 1	C	2.9.68	3-10
	912730	ROS	PENGUIN .. CERBERUS ..	2 NBCD 27 (1 NBCD)	—	On completion of CO course	4-12
	912940	DS	CERBERUS .. PENGUIN ..	7 2 NBCD	D	2.9.68	3-10
	912740	DO	CERBERUS .. HARMAN (Navy Office)	14 (1 NBCD) 7	—	On completion of CO course	4-12
	912700	CO	CERBERUS ..	6	—	8.1.68 9.9.68 4.3.68 4.11.68 22.7.68	8-40
	912960	POLIN	RAAF School of Languages CERBERUS .. PENGUIN ..	47 13 2 NBCD	A	22.1.68	3-8

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	912950	POLIN	RAAF School of Languages PENGUIN ..	47 2 NBCD	A	22.1.68	3-8
	912000	Able Rank Refresher	CERBERUS ..	4	—	15.1.68 15.7.68 15.4.68 14.10.68	As required
	912010	Able Rank Refresher	KUTTABUL (STC)	4	—	15.1.68 15.7.68 15.4.68 14.10.68	As required
Regulating ..	920990	MAA	CERBERUS ..	5	D	8.1.68	3-6
	920910	RPO	CERBERUS .. PENGUIN ..	6 2 NBCD	D	19.2.68	3-6
	920810	LPM	CERBERUS ..	8	D	1.4.68 22.7.68	4-12
Marine Engi- neer	913650	Artificer Diver ..	RUSHCUTTER ..	4	—	8.1.68 8.7.68	6-12
	953080	CERA/CMECH ..	CERBERUS ..	16	C	19.2.68 19.8.68	6-15
	953090	CERAD/CMECHD	CERBERUS ..	16	C	19.2.68 19.8.68	3-6
	913950	Direct Entry ERA	CERBERUS .. CERBERUS ..	16 1 NBCD	—	8.1.68 22.7.68	As required
	913960	Direct Entry ERAD	CERBERUS .. CERBERUS ..	18 1 NBCD	—	8.1.68 22.7.68	As required
	913930	Mechanician ..	NIRIMBA ..	98	A	15.1.68 8.7.68	5-10
	953930	Mechanician D ..	NIRIMBA ..	98	A	15.1.68	3-5
	913910	POME	CERBERUS .. PENGUIN ..	12 2 NBCD	D	6.5.68(2)	6-15
	913920	POMED	CERBERUS .. PENGUIN ..	10 2 NBCD	D	6.5.68	6-15
	913940	MTC	CERBERUS .. PENGUIN ..	12 2 NBCD	D	12.2.68(4) 12.8.68(4)	6-12
	913980	Mechanician Educa-tional	CERBERUS ..	4	—	20.5.68 18.11.68	As required
	913620	TOW	CERBERUS ..	10	D	15.1.68 22.7.68 8.4.68 7.10.68	6-15 See Note

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Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Marine Engineer— <i>continued</i>	913630	B and L	CERBERUS ..	4	—	5.2.68 5.8.68 1.4.68 30.9.68	5-10
	913710	ME	CERBERUS ..	14 (1 NBCD)	—	As required	10-15
	913720	MED	CERBERUS ..	13 (1 NBCD)	—	As required	10-15
	913990	CNS	NIRIMBA ..	8	D	8.4.68	3-6
	953060	Boiler and Feed Water Testing and Treatment	CERBERUS ..	1	—	As required	As required
Electrical ..	914920	POEP	CERBERUS .. PENGUIN ..	20 2	C	15.1.68 29.7.68	4-12
	914930	POEWE	CERBERUS .. PENGUIN ..	24 2	C	15.1.68 29.7.68	4-12
	914940	POEWR	CERBERUS .. PENGUIN ..	29 2	B	15.1.68 29.7.68	4-12
	914950	POEC	CERBERUS .. PENGUIN ..	27 2	B	29.7.68	4-12
	914710	EMP	CERBERUS ..	32	—	As required	6-16
	914720	EMWE	CERBERUS ..	35	—	As required	6-16
	914730	EMWR	CERBERUS ..	40	—	As required	4-16
	914740	EMC	CERBERUS ..	(1 NBCD) 40	—	As required	4-16
	914690	TOW	CERBERUS ..	(1 NBCD) 10	D	15.1.68 22.7.68	6-12
	954820	Direct Entry SAW Course	CERBERUS ..	51	—	As required	4-12

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954810	Direct Entry SAP Course	CERBERUS .. WATSON ..	45 7	—	As required	4-12	
954830	Direct Entry SAC Course	CERBERUS ..	51	—	As required	4-12	
914990	CEA Confirmation Course	CERBERUS ..	3	—	As required	As required	
954870	Conversion Course to SAP and CSAP (Ex EA, CEA)	CERBERUS .. WATSON ..	28 10	B	As required	3-8	
954860	Conversion Course to SAP and CSAP (Ex OA, COA)	CERBERUS .. WATSON ..	34 4	B	As required	3-8	
954840	Conversion Course to SAW and CSAW (Ex EA, CEA)	CERBERUS ..	53	A	As required	3-8	
954880	Conversion Course to SAW and CSAW (Ex OA, COA)	CERBERUS ..	63	A	As required	3-8	
954890	Conversion Course to SAW and CSAW (Ex EAR, CEAR)	CERBERUS ..	27	B	As required	3-8	
954850	Conversion Course to SAC and CSAC (Ex EA, CEAC)	CERBERUS ..	63	A	As required	3-8	
954910	Conversion Course to SAC and CSAC (Ex EAR, CEAR)	CERBERUS ..	45	A	As required	3-8	
Naval Airmen	915370	SAR Divers ..	RUSHCUTTER ..	3	—	As required after	As required
			ALBATROSS ..	9		September 1968	

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Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Naval Airmen —continued	915960	POACM ..	ALBATROSS .. WATSON .. PENGUIN ..	20 1 2 NBCD	C	As required	As required
	915910	POAAH ..	ALBATROSS .. PENGUIN ..	6 2 NBCD	E	As required	4-12
	915710	NAAH ..	ALBATROSS .. PENGUIN ..	5 1 NBCD	—	22.1.68 6.5.68 15.7.68 11.11.68	
	915320	ORDNA .. ORDNAM ORDEMA	ALBATROSS ..	1	—	15.1.68 1.7.68 12.2.68 29.7.68 11.3.68 26.8.68 8.4.68 23.9.68 6.5.68 21.10.68 3.6.68 25.11.68	
	915920	POAMET ..	ALBATROSS .. PENGUIN ..	6 2 NBCD	D	29.7.68	2
	915720	NAMET ..	WATSON .. ALBATROSS .. PENGUIN ..	4 9 1 NBCD	—	12.2.68 9.9.68	
	915930	POAPHOT ..	ALBATROSS .. PENGUIN ..	12 2 NBCD	D	20.5.68	2-4
	915730	NAPHOT ..	ALBATROSS .. PENGUIN ..	15 1 NBCD	—	22.1.68 2.9.68	3-5
	915940	POASE ..	ALBATROSS .. PENGUIN ..	7 2 NBCD	D	29.4.68	1-3
	915740	NASE ..	ALBATROSS .. PENGUIN ..	12 1 NBCD	—	19.2.68 16.9.68	3-8

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Air Engineer- ing	916940	MECHW ..	NIRIMBA ..	46	A	15.1.68	4-12	
	916930	MECHAE ..	NIRIMBA ..	46	A	15.1.68	4-12	
	916920	POAMAE ..	ALBATROSS .. PENGUIN ..	35 2 NBCD	B	4.3.68	4-6	
	916820	LAMAE ..	ALBATROSS ..	11	D	13.5.68	4-12	
	916720	NAMAE ..	ALBATROSS .. PENGUIN ..	11 1 NBCD	—	22.1.68 16.9.68	4-12	
	916910	POAMW ..	ALBATROSS .. PENGUIN ..	27 2 NBCD	—	22.4.68	4-12	
	916810	LAMW ..	ALBATROSS ..	10	D	8.7.68	4-12	
	916710	NAMW ..	ALBATROSS .. PENGUIN ..	12 1 NBCD	—	16.9.68	4-12	
	916220	TOW ..	CERBERUS .. ALBATROSS	8 2	D	15.1.68 22.7.68 8.4.68 7.10.68	6-12	
	Air Electrical	917910	POEAW ..	CERBERUS .. ALBATROSS	12	D	29.7.68	4-8
		917920	POEAC ..	CERBERUS .. ALBATROSS	24	C	29.7.68	4-8
		917720	EMAC ..	ALBATROSS ..	32	B	As required	6-16
917710		EMAW ..	ALBATROSS ..	21	C	As required	6-16	
917810		LEMAW ..	ALBATROSS ..	14	C	4.3.68 29.4.68	4-12	
917820		LEMAC ..	ALBATROSS ..	14	C	4.3.68 29.4.68	4-12	
917580		TOW ..	CERBERUS .. ALBATROSS	8 2	D	16.1.68 10.4.68 10.7.68 9.10.68	6-12 See Note	
Medical and Dental		918910	POSBA ..	CERBERUS .. PENGUIN ..	3 2 NBCD	E	13.5.68 21.10.68	2-8
	918710	SBA ..	CERBERUS or PENGUIN	37 (1 NBCD)	—	12.2.68 6.5.68 26.8.68 25.11.68	3-12	
	918720							
	918360	Hygiene Inspector ..	Army School of Health	39	B	As required	As required	

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Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engage-ment Category	Starting Dates	Min./Max. Nos.
Medical and Dental— <i>continued</i>	918380	Dispenser ..	CERBERUS or	38	B	12.2.68 19.8.68	1-2
	918390		PENGUIN ..				
	918200	Lab. Asst. ..	CERBERUS or	12	A	12.2.68 19.8.68	1
	918210		PENGUIN ..				
	918220	X-ray Asst. ..	Public Hospital ..	44			
	918230		CERBERUS or	12	B	12.2.68 19.8.68	1
			PENGUIN ..				
	918240	Operating Room At-	Public Hospital ..	26			
	918250	tendant	CERBERUS or	12	B	12.2.68 19.8.68	1
			PENGUIN ..				
	918260	Aviation Medicine ..	ALBATROSS ..	26	C	12.2.68	1-2
	918270	Advanced Nursing ..	CERBERUS or	12	B	20.5.68 7.10.68	1-2
	918280		PENGUIN ..				
	918300	Masseur	Public Hospital ..	26			
			CERBERUS or	12	B	29.4.68	1
		PENGUIN ..					
		CERBERUS or	26				
		Public Hospital ..					
918330	Underwater Medicine	RUSHCUTTER ..	26	C	22.1.68 29.7.68	1-2	
918810	Dental Mechanic Conversion	CERBERUS ..	50	A	As required	1-3	
918350	Advanced Dental Mechanic	United Dental Hospital, Sydney	1 to 2 years	A	As required	1-2	
918930	PODA	CERBERUS ..	4	E	As required	1-2	
		PENGUIN ..	2 NBCD				
918730	DA	CERBERUS ..	17 (1 NBCD)	—	11.3.68 19.8.68	1-6	

Supply and Secretariat	919910	POWTR	CERBERUS ..	3	E	15.1.68 5.8.68	4-10
			PENGUIN ..	2 NBCD			
	919710	VTR	CERBERUS ..	13 (1 NBCD)	—	5.2.68 28.10.68	4-10
						22.7.68	
	919920	POCK	CERBERUS ..	4	E	15.1.68 19.8.68	2-5
			PENGUIN ..	2 NBCD			
	919820	LCK	CERBERUS ..	4	E	19.2.68 22.7.68	2-5
						18.3.68 16.9.68	
						15.4.68 21.10.68	
						13.5.68	
	919720	CK	CERBERUS ..	17 (1 NBCD)	—	15.1.68 22.7.68	3-10
						19.2.68 19.8.68	
						18.3.68 16.9.68	
						13.5.68 28.10.68	
						15.4.68 18.11.68	
919020	Advanced Cookery	WAFTS Melbourne	12	D	As required	As required	
919930	POSTD	CERBERUS ..	3	E	8.4.68 19.8.68	4-10	
		PENGUIN ..	2 NBCD				
919730	STD	CERBERUS ..	6 (1 NBCD)	—	15.1.68(2) 22.7.68	4-10	
					26.2.68(2) 2.9.68		
					8.4.68 14.10.68		
					20.5.68 25.11.68		
919940	POSN	CERBERUS ..	3	E	15.1.68 9.9.68	4-10	
		PENGUIN ..	2 NBCD				
919740	SAN	CERBERUS ..	6 (1 NBCD)	—	12.2.68 22.7.68	4-10	
					6.5.68 4.11.68		
919950	POSV	CERBERUS ..	3	E	15.1.68 22.7.68	4-10	
		PENGUIN ..	2 NBCD				
919750	SAV	CERBERUS ..	7 (1 NBCD)	—	12.2.68 4.11.68	4-10	
					12.8.68		

Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
Musicians ..	921990	CPOMUSN ..	CERBERUS ..	42	A	22.1.68	2
	921920	POMUSN ..	CERBERUS ..	22	C	22.7.68	2-4
			PENGUIN ..	2 NBCD			
	921720	MUSN ..	CERBERUS ..	61 (1 NBCD)	—	As required	As required
	921710	OMUSN ..	CERBERUS ..	12	—	As required	As required
	921700	JMUSN ..	CERBERUS ..	8	—	As required	As required
WRANS ..	907700	Rct. Pt. 1 Training	CERBERUS ..	4½	—	9.1.68 23.7.68 20.2.68 27.8.68 2.4.68 1.10.68 14.5.68 12.11.68	20-40
	947700	Pre-OTC Supply ..	CERBERUS ..	4	—	6.5.68 30.9.68	3-8
	947710	Pre-OTC Communications	CERBERUS ..	6	—	3.6.68 28.10.68	3-8
	947720	OTC ..	CERBERUS ..	10	—	22.1.68 5.8.68	3-8
	907510	NBCD and First Aid	CERBERUS ..	1½	—	On completion of 947720	3-8
	907930	WRRST ..	CERBERUS ..	8	D	As required	3-10
	907940	WRRSM ..	HARMAN or	6	D	As required	3-10
	937940		HARMAN and	5			
			WATSON	1			
	937710	WRRO Section A	CERBERUS ..	6	—	8.1.68 17.6.68 12.2.68 26.8.68 25.3.68 6.11.68 6.5.68	4-16
	937740	WRROM Section B	CERBERUS ..	6	—	On completion of WRRO Section A	As required

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	WRROM Section C	HARMAN ..	8	—	On completion of WRROM Section B	As required
937730	WRRST ..	CERBERUS ..	9	—	On completion of WRRO Section A	As required
907950	POWRLIN ..	CERBERUS ..	13	A	As for POLIN	As required
		RAAF School of Languages	47			
937950	POWRLIN ..	RAAF School of Languages	47	A	As for POLIN	As required
907960	POWRSBA ..	CERBERUS ..	3	E	As for POSBA	As required
907760	WRSBA (Prob.) Sect. 1 Pt. 2	CERBERUS ..	12	—	As for SBA	3-20
937760	WRSBA Sect. 2 Pt. 2	CERBERUS ..	12	—	On completion of Sect. 1, Pt. 2	3-20
947760		PENGUIN				
907970	POWRWTR ..	CERBERUS ..	3	E	As for POWTR	As required
907770	WRWTR ..	CERBERUS ..	8	—	8.1.68 30.9.68 6.5.68	2-6
907750	WRWTRST ..	CERBERUS ..	As required	—	25.3.68 2.9.68	As required
		Business College				
907980	POWRSV ..	CERBERUS ..	3	E	As for POSV	As required
907780	WRSV ..	CERBERUS ..	5	—	6.5.68 30.9.68	2-10
907910	POWRCK ..	CERBERUS ..	4	E	As for POCK	As required
907810	LWRCK ..	CERBERUS ..	4	E	As for LCK	As required
907710	WRCK ..	CERBERUS ..	8	—	12.2.68 26.8.68 6.5.68 6.11.68	2-8
907990	POWRSTD ..	CERBERUS ..	3	E	As for POSTD	As required
907790	WRSTD ..	CERBERUS ..	8	—	12.2.68 30.9.68 6.5.68 6.11.68	2-10
907830	LWRREG ..	CERBERUS ..	13	D	1.4.68 16.9.68	As required
907920	POWRRP ..	WATSON ..	8	D	As required and 15.1.68	3-6
907820	LWRRP ..	WATSON ..	7	D	As required and 20.5.68	3-6

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Branch or Group	EDP No.	Course	Location	Duration in Weeks	Re-engagement Category	Starting Dates	Min./Max. Nos.
WRANS— continued	907720	WRRP	WATSON ..	6	—	As required	3-6
	907300	WRRP (Navigators Yeoman)	WATSON ..	4	—	As required	As required
	907310	WRRP (Film Assessor Weapons)	KUTTABUL ..	1	—	As required	As required
	907730	WRMTD ..	ALBATROSS ..	6	—	19.2.68 1.4.68 12.5.68 30.9.68 4.11.68	2-4
General and Miscellaneous	902320	MTM	ALBATROSS ..	6	D	As required	2-6
	902301	MTDI	RAASC ..	8	D	As required	6-12
	902310	MTD	ALBATROSS ..	6	D	8.1.68 12.8.68 19.2.68 23.9.68 1.4.68 4.11.68 13.5.68	6-12
	902340	PO Leadership ..	CERBERUS ..	6	D	8.1.68 22.7.68 19.2.68 2.9.68 1.4.68 14.10.68 13.5.68	10-30
	902390	Standard NBCD ..	CERBERUS ..	1	—	8.1.68 17.6.68 22.1.68 22.7.68 5.2.68 5.8.68 19.2.68 19.8.68 4.3.68 2.9.68 18.3.68 23.9.68	6-18
	902400	Standard NBCD ..	PENGUIN ..	1	—	1.4.68 7.10.68 22.4.68 21.10.68 6.5.68 11.11.68 20.5.68 18.11.68 3.6.68 2.12.68 15.1.68† 15.7.68† 29.1.68† 22.7.68* 5.2.68* 29.7.68† 12.2.68† 5.8.68* 19.2.68* 12.8.68 26.2.68* 19.8.68* 4.3.68* 26.8.68† 11.3.68† 9.9.68† 25.3.68† 23.9.68† 8.4.68† 7.10.68 22.4.68† 21.10.68 6.5.68† 4.11.68† 27.5.68† 18.11.68† 3.6.68† 2.12.68† 17.6.68† 16.12.68	6-24
902410	Advanced NBCD ..	PENGUIN ..	2	—	15.1.68‡ 15.7.68‡ 5.2.68 12.8.68 19.2.68 26.8.68 26.2.68 2.9.68 11.3.68 16.9.68 18.3.68 23.9.68 1.4.68 7.10.68 8.4.68 21.10.68 22.4.68§ 28.10.68 29.4.68 11.11.68	10-24	

16200/67-2

902400	Standard NBCD ..	PENGUIN ..	1	—	1.4.68 7.10.68 22.4.68 21.10.68 6.5.68 11.11.68 20.5.68 18.11.68 3.6.68 2.12.68 15.1.68† 15.7.68† 29.1.68† 22.7.68* 5.2.68* 29.7.68† 12.2.68† 5.8.68* 19.2.68* 12.8.68 26.2.68* 19.8.68* 4.3.68* 26.8.68† 11.3.68† 9.9.68† 25.3.68† 23.9.68† 8.4.68† 7.10.68 22.4.68† 21.10.68 6.5.68† 4.11.68† 27.5.68† 18.11.68† 3.6.68† 2.12.68† 17.6.68† 16.12.68	6-24
902410	Advanced NBCD ..	PENGUIN ..	2	—	15.1.68‡ 15.7.68‡ 5.2.68 12.8.68 19.2.68 26.8.68 26.2.68 2.9.68 11.3.68 16.9.68 18.3.68 23.9.68 1.4.68 7.10.68 8.4.68 21.10.68 22.4.68§ 28.10.68 29.4.68 11.11.68	10-24

* NIRIMBA Apprentices. † Majority of places booked for Able Seaman Courses. ‡ 2 MTC Courses.
§ 2POME and POMED Courses.

<i>Branch or Group</i>	<i>EDP No.</i>	<i>Course</i>	<i>Location</i>	<i>Duration in Weeks</i>	<i>Re-engagement Category</i>	<i>Starting Dates</i>	<i>Min./Max. Nos.</i>
General and Miscellaneous— <i>continued</i>						13.5.68 18.11.68	
						20.5.68 2.12.68	
						3.6.68 9.12.68	
						10.6.68	
	902430	HET Preparatory ..	WATSON ..	6	D	11.3.68 26.8.68	
902470	ET1	WATSON ..	2	—	11.3.68 29.7.68		

Note—Numbers are a combined total for Courses 913620, 914690 and 917580, the first 8 weeks of which are common to all courses.

(DMT 311/201/281)

RESTRICTED

ANO's 544-553/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
27th December, 1967.

The enclosed orders are promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

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16202/67

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Section 1

ADMINISTRATIVE AND GENERAL

UNCLASSIFIED

544—Navigation—Rule of the Road (1960)—Towing Vessels— Second Masthead Light

(DCI (RN) 1073/1967)

Some doubt has arisen whether the wording of Rule 3 of the International Regulations for Preventing Collisions at Sea 1960 requires vessels over 150-ft. in length to carry a second masthead steaming light in accordance with Rule 2 (a) (ii) when towing or pushing an other vessel. The Board of Trade has issued Merchant Shipping Notice No. M518 to clarify this issue, and the notice is reprinted below—

"INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA 1960

Second masthead light to be exhibited by vessels of 150 feet or over when towing or pushing

Notice to Shipowners, Shipmasters and Seamen and others concerned with foreign-going and home trade merchant ships and fishing vessels

The Board have been considering a possible ambiguity in the wording of the International Regulations for Preventing Collisions at Sea 1960* concerning the second masthead light prescribed for vessels of more than 150 feet in length when towing or pushing.

According to Rule 2 (a) (ii), a vessel of more than 150 feet in length shall carry the second masthead light when under way. Rule 3, however (which deals with lights and shapes to be exhibited by vessels when towing or pushing) by being explicit on the carriage of the sidelights, the towing lights (2 or 3 in a vertical line) and the stern light, and by omitting reference to the second white masthead light, creates an element of doubt about whether it needs to be shown. Thus, the question was raised, whether a vessel of 150 feet or more in length when towing or pushing another vessel or seaplane, was required to comply with Rule 2 (a) (ii).

This matter was raised with the Intergovernmental Maritime Consultative Organization and after reference to their Sub-Committee on Safety of Navigation it was considered by their Maritime Safety Committee. An extract from the report of this Committee is appended below for the information of all concerned:

"The Committee, holding the view that the intention behind Rule 3 (a) of the International Regulations for Preventing Collisions at Sea seen in conjunction with Rule 2 (a) (ii) was that the second masthead light be carried by vessels of 150 feet or over in length when towing or pushing, wished to recommend that governments bring this to the attention of all concerned through the usual channels."

* Set out in SI 1965 No 1525 (The Collision Regulations (Ships and Seaplanes on the Water) and Signals of Distress (Ships) Order 1965). (HMSO, 1s 6d)."

2. HMA ships and support craft over 150-ft. in length that are fitted with a second masthead light in accordance with Rule 2 (A)(ii) of the Rule of the Road (1960), are to display this light in addition to the lights required by Rule 3 when towing or pushing another vessel.

3. The illustrated plates in the Admiralty Manual of Navigation, Volume I (1964) and the Admiralty Manual of Seamanship, Volume II (1967) will continue to illustrate the Rules as they stand at the moment. However, an amendment will be issued to both of these volumes drawing attention to the Merchant Shipping Notice above which will be included in the amendment.

(D of O 43/201/31)

RESTRICTED

545—Official Rates of Exchange—South Vietnam

As from 1st October, 1967, the Vietnamese exchange rate is \$US1 equals 118 piastres for all expenses of foreign Governments.

2. Paragraph 2 of Navy Order 464 of 1966 is hereby cancelled.

(DNA 201/201/50)

(Navy Order 464 of 1966)

Section 2 PERSONNEL

UNCLASSIFIED

546—Representation Allowance—Members Serving Oversea

The provisions of NPI 105/310 (1) governing payment of Representation Allowance are withdrawn with effect from 15th August, 1967, and in lieu payment of this allowance may be made concurrently to the in-going and out-going member at an oversea post during a handover period provided this period does not exceed two weeks.

2. NPI 105/310 should be noted pending amendments.

(HPB 252/4/51)

RESTRICTED

547—Sailors—Career and Pre-commissioning Training—General

Navy Order 397 of 1967 is to be amended as follows—

Appendix A—

Courses Available to Seamen—Gunnery—

amend " 911670 4.5-in. Mark 6 and Turret "
to read " 911360 4.5-in. Mark 6 and Turret ".

(DMT 311/201/247)

(Navy Order 397 of 1967)

UNCLASSIFIED

548—The Ian MacDonald Memorial Prize

The Ian MacDonald Memorial Prize for 1967 has been awarded to Sub-Lieutenant C. A. BARRIE, RAN.

(HPB 38/6/6)

Section 3

OPERATIONAL AND TRAINING

UNCLASSIFIED

549—Sailors Course Programme—1967

Navy Order 393 of 1967 is to be amended as follows—

Appendix—

- (a) Seaman Branch—
amend " 911900 CPOCOX " *to read* " 911990 CPOCOX ".
- (b) Regulating Branch—
amend " 920910 MAA " *to read* " 920990 MAA ".
- (c) Marine Engineering Branch—
cancel all reference to " 913820 CERA/CMECH ".
- (d) Air Electrical Branch and Note—
amend " 917210 TOW " *to read* " 917580 TOW ".

(DMT 311/201/247)

(Navy Order 393 of 1967)

Section 4

EQUIPMENT, STORES AND SERVICING

UNCLASSIFIED

550—Ammunition—Propellant—Landing—Destruction—Reports

(DCI (RN) 775/1967)

Propellant of the following lots and sub-lots is due for withdrawal having reached age limits—

<i>Propellant Lots and Sub-lots Affected</i>	<i>Type</i>	<i>Nature of Ammunition, Etc., Which May be Involved</i>
RNC 4167 ..	SC/Z008 ..	Cartridges— QF 4.5-in. (SL)
RNC 4155 ..	SC 048 ..	Cartridges— QF 4-in. (FA)
RNC 4189 ..	SC 061 ..	Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 4188 ..	SC 103 ..	Cartridges— QF 4.5-in., QF 4-in., QF 4.5-in. (SL)

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
RNC 4137 RNC 4172 RNC 4185	.. } SC 140	.. Cartridges— Impulse Torpedo
RNC 4136 RNC 4150	.. } SC 150	.. Cartridges— QF 4.5-in. (SL), Impulse Torpedo
RNC 4160 RNC 4177	.. } NF 029	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNC 4144 RNC 4161 RNC 4193 RNC 4196	.. } NF 042	.. Cartridges— QF 4-in., QF 4.5-in. (SL)
RNC 4162 RNC 4163 RNC 4178 RNC 4179 RNC 4194 RNC 4195	.. } NF/S 164-048	.. Cartridges— QF 4-in.
RNC 4146	.. NF/S 168-048	.. Cartridges— QF 4.5-in (SL)
RNC 4145	.. NF/S 198-054	.. Cartridges— QF 4.5-in. (SL)
RNP 288 ..	.. SC 061	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNP 287 ..	.. SC 103	.. Cartridges— QF 4.5-in., QF 4-in., QF 4.5-in. (SL)
RNP 286 .. RNP 301 ..	.. } SC 122	.. Cartridges— QF 4.5-in., (SL)
RNP 285 .. RNP 300 ..	.. } SC 140	.. Cartridges— Impulse Torpedo
RNP 257 .. RNP 282 .. RNP 305 .. RNP 310 .. RNP 533R	.. } NF 029	.. Cartridges— QF 4-in. (FA), QF 4.5-in. (SL)
RNP 534R	.. NF 042	.. Cartridges— QF 4-in., QF 4.5-in. (SL)
RNP 279 .. RNP 291 .. RNP 292 .. RNP 307 .. RNP 309 .. RNP 294R	.. } NF/S 164-048	.. Cartridges— QF 4-in.

Propellant Lots and Sub-lots Affected	Type	Nature of Ammunition, Etc., Which May be Involved
RNP 281 .. RNP 293 .. RNP 306 ..	.. } NF/S 198-054	.. Cartridges— QF 4.5-in. (SL)
RNP 2414 RNP 2418	.. } SUK/XII	.. Motors Rocket A/C 3-in.
MEC 137	.. SC 140	.. Cartridges— Impulse Torpedo
MEC 273R	.. SC 048	.. Cartridges— QF 4-in. (FA)
MEC 290R	.. SC 061	.. Cartridges— QF 4.5-in. (SL)
MEC 370R MEC 388R	.. } SC 103	.. Cartridges— QF 4.5-in., QF 4-in., QF 4.5-in. (SL)
X 622R ..	.. N/S 198-054	.. Cartridges— QF 4.5-in. (SL)

2. Action to be taken by HMA ships, establishments and proof ranges

Return to RAN armament depots as early as practicable. If unable to comply within three months from the date of this order, report specially to DAS NM and ER BR 862 Article 1126 refers.

3. Action to be taken at RAN armament depots

Declare for disposal. Propellant Acceptance List to be amended.

(DAS 729/51/84)

UNCLASSIFIED

551—Ammunition—Pyrotechnics—401015 Marker Smoke White Mark N3 Lot 144—Withdrawal

(DCI (RN) 846/1967)

Item concerned 401015 Marker Smoke White Mark N3 of Lot 144.

2. Authorities concerned .. HMA ships, shore establishments and RAN armament depots holding stocks of Markers Smoke White Mark N3.

3. Information (a) Cases have arisen of Markers Smoke White Mark N3 of Lot 144 failing to function in service.

(b) Because of their age and known unreliability, it has been decided to withdraw markers of this Lot from service.

4. *Action to be taken* .. (a) HMA ships and shore establishments—
Any markers of Lot 144 held at present are not to be fired. They are to be returned to an RAN armament depot at the first opportunity and replacements drawn in lieu.
- (b) RAN armament Depots—Present stocks and returns from service of markers of the above lot are to be declared on Disposal Form No. 1.

(DAS 728/61/78)

UNCLASSIFIED

552—Naval Stores—Lubricants—Ashless Dispersant Oil Grade D-1120 For Piston Aero-engines—Introduction

In order to facilitate standardisation for cross-operating at Service and Civilian airfields throughout Australia and to take advantage of the technical benefits available, ashless dispersant lubricating oil is being introduced into the Royal Australian Navy for use in all piston aero-engines. The following particulars apply—

Product Description Lubricating Oil Aircraft Piston Engines Grade D-1120.

Specification .. MIL-L-22851A Type 2.

NATO Code No. 0-128.

Ident. Nos. .. 9150-66-020-2810 (4-gallon containers).
9150-66-020-2811 (44-gallon containers).

2. It is expected that use of the new oil will result in engines being in a much cleaner and better condition at reconditioning and that there will be a substantial reduction in the formation of sludge, gum, carbon and other lubricating oil/combustion process by-products. It is also expected that the oil will promote better engine lubrication and reliability by reducing the possibility of oil starvation and acid attack on bearings.

3. Ashless dispersant oil is completely compatible with the piston aero-engine lubricating oils already in use and changeover will be effected by a gradual phasing in of the new oil when replenishing engine oil levels in service.

4. As the new oil has a mildly detergent effect certain precautionary inspections of filter will be required. These inspections together with changeover procedure have been advised in RANAMO Engines General/SI Issue 7.

5. Supply Officers should demand Ashless Dispersant Oil Grade D-1120 in the usual manner from the Superintending Naval Store Officer, Sydney.

6. It is to be noted that complete interchangeability exists between Ashless Dispersant Oil Grade D-1120 and its UK counterpart, Oil OMD-370 Ref. 34A/2201097 to Specification D Eng. RD 2450 the NATO Code No. for both products being 0-128. Accordingly the Service Designation OMD-370 will be used for ashless dispersant oil in the RAN.

(ACAE 400/2/776)

UNCLASSIFIED

553—Stores General—Consignments Dispatched to Operational Areas in South East Asia—Use of Kangaroo Symbol

In order to facilitate the recognition of stores ex Australia by indigenous labourers when offloading consignments for Australian Forces in South East Asia, it has been decided that packages (i.e., cases, parcels or other containers) of all such stores are to be marked before dispatch with a bright orange coloured symbol in the form of a kangaroo.

2. Each package consigned to South East Asia for RAN use is to be marked before dispatch on one end and one side with the kangaroo symbol immediately over the letters RAN. The actual position of the symbol and lettering is to be governed by any markings, etc., already on the package.

3. Colour bandings in accordance with RI Article 4943 (10) are to continue to be used in conjunction with the kangaroo symbol.

4. The undermentioned stencils are being introduced for use in applying the symbols and requirements of these, together with the appropriate shade of orange coloured paint, are to be demanded from SNSO, Sydney, as necessary—

<i>Group Class</i>	<i>Catalogue No.</i>	<i>Description</i>	<i>Denom.</i>	<i>Accig. Classification</i>
7520	66-027-6681	STENCIL, MARKING; with 2-in. high lettering RAN and 5-in. high kangaroo symbol	No.	C
7520	66-027-6684	STENCIL, MARKING; with 1-in. high lettering RAN and 2-in. high kangaroo symbol	No.	C

(DSAP 185/51/5)

RESTRICTED

222-Quinn-Corbin-Corporation Incorporated in Maryland
in 1904, 222-Quinn-Corbin-Corporation

to issue the following certificate of stock in accordance with the
provisions of the Charter of Incorporation for American Tobacco Company
which is hereby adopted and approved by the Board of Directors
of American Tobacco Company and a majority of the stockholders
of said company.

2. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

1. Certain shares to be designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

4. The undersigned hereby certifies that the shares of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

Class	No.	Description
C	222-6817-6844	STENCIL MARKING, with 1/2" dia. hole high printing RAN and 3/4" hole
C	222-6817-6844	STENCIL MARKING, with 1/2" dia. hole high printing RAN and 3/4" hole

1. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

2. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

3. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

4. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

5. That certain shares of the common stock of the company
being designated as Series A, the actual position of the shares and bearing to be
given by any transfer, etc. shall be as follows:

RESTRICTED

ANO's 554-563/67



AUSTRALIAN NAVY ORDERS

Navy Office, Canberra,
29th December, 1967.

The enclosed orders are promulgated for information, guidance and necessary action.

By direction of the Naval Board,

A. Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers
in Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

RESTRICTED

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Section 2 PERSONNEL

RESTRICTED

554—Posting Lists—Revised Form of Presentation

With the introduction of EDP, it is intended in the long term, to issue computer produced posting lists.

2. The posting lists will be known as the "Weekly List of Officers Title Variations and Postings" and the "Weekly List of Sailors Postings". The Officers List will consist of a Title Variations section and a Posting section. The Titles Variations section will give details of promotions, grants of acting rank, new seniority, new pay seniority and date of effect of variation for each member. The Posting List for officers and sailors will show the ship to which the officer or sailor was last posted and give details of his new posting, his rank, date of effect of new posting and any special pay effect. In addition there will be a remarks column and a reference number for each entry.

3. Where an officer is to assume an acting rank, etc., on taking up a new posting, this information will appear in the remarks column of the Posting List and will also appear in the Title Variations section after the member has taken up the posting.

4. The computer produced Posting Lists will contain information in the following order—

- | | |
|---------------------|---|
| (a) <i>Officers</i> | (i) Component of Force |
| | (ii) Rank |
| | (iii) Rank Type |
| | (iv) Seniority |
| | (v) Personal Number |
| | (vi) Posting Type |
| | (vii) Effective Date. |
| (b) <i>Sailors</i> | (i) Component of Force |
| | (ii) Branch |
| | (iii) Rank |
| | (iv) Rank Type |
| | (v) Personal Number |
| | (vi) Posting Type (cancellations, etc.) |
| | (vii) Effective Date. |

5. As the EDP printed posting list will involve a number of administrative changes, it is intended to familiarise personnel with the revised posting terminology and procedures which will apply. To this end, Weekly Lists of Officers Title Variations and Postings and Weekly Lists of Sailors Postings will be issued in revised formats from late January, 1968. The former list will appear in the format which will be used when the EDP system produces the Lists. However, because of the much greater volume of sailors postings, the Weekly List of Sailors Postings will be issued in a slightly different format until such time as the EDP machine performs the printing function. Personal copies of officers postings will continue to be attached to the Posting List concerned.

6. Examples of the presentation of the "Weekly List of Officers Title Variations and Postings" and the "Weekly List of Sailors Postings" which will be used in EDP produced Lists are contained in Appendixes A and B to this order.

7. Greater use will be made of abbreviations in the presentation of the Postings Lists and a list of abbreviations and their meanings is contained in Appendix C to this order.

8. On the introduction of the new Lists officers will not be re-posted on promotion but details of the changes in rank will appear in the Title Variations section.

9. The date of a posting under the EDP system will be the day on which the member joins his new ship.

10. Where officers and sailors are posted for duty with Air Squadrons the postings will be to the Air Squadron, e.g., the present manner for officers on posting to HMAS ALBATROSS for 817 Squadron and to HMAS MELBOURNE in continuation, will be replaced by a posting to 817 Squadron.

11. The Commanding Officers of HMAS MELBOURNE and HMAS ALBATROSS will exercise the powers of command and discipline, including the powers of punishment, over Naval air squadrons during the period of embarkation and disembarkation as the case may be. If an air squadron is detached from either HMAS MELBOURNE or HMAS ALBATROSS these powers will be vested in the Commanding Officer of the air squadron by virtue of Section 49 (4) (c) of the Naval Discipline Act.

12. Personnel who are posted as Service Attaches are currently posted as Service Attaches "additional" to an Establishment (usually HMAS PENGUIN) but this procedure will be amended so that these members will be posted directly to their overseas posts and the ship which will bear the personnel on its records will be shown by the three letters at the end of the title of the post, e.g.—

ASA DELHI—PEN
ASA TOKYO—PEN
ALO KOREA—PEN.

13. In the case of staffs (FOICEA and FOCAF) and Navy Office directorates in Canberra and Melbourne, separate identification will be needed as follows—

(a) FOICEA—KUT
(b) NAVY OFFICE—HAR
(c) NAVY OFFICE—LON
(d) FOCAF—KUT
(e) FOCAF—SEA.

In the case of (e) no specific ship can be named as FOCAF and his seagoing staff can embark in any ship.

APPENDIX A Title Variations—Officers

Number	Initials	Surname	NEW RANK	CMDR GLEX TAS	NEW SENIORITY 30JUN57	A/CAPT GLEX	Present Rank	Appointment	(Message No.)
0625	R. J.	GREY	NEW RANK	CMDR GLEX TAS	NEW SENIORITY 30JUN57	A/CAPT GLEX	A/CAPT GLEX	PAY—SENIOR 30JUN57 RMKS	1100/1
REVERSION		WHITE	NEW RANK	A/CAPT GLEN	NEW SENIORITY 16JAN67	CMDR GLEN ME	CMDR GLEN ME	PAY—SENIOR 16JAN67 RMKS	1100/2
0626	D. K.	GRANT OF ACTING	NEW RANK	LCDR GLEX N	NEW SENIORITY 17JAN67	LIEUT GLEX N	LIEUT GLEX N	PAY—SENIOR 12OCT66 RMKS	2200/1
0633	K.	BLUE	NEW RANK	LIEUT MLIT	NEW SENIORITY 02FEB66	B/LIEUT MLIT	B/LIEUT MLIT	PAY—SENIOR 02FEB66 RMKS	480/5
PROMOTION		SAFFRON							
0719	J. M.	SAFFRON	NEW RANK	LIEUT MLIT	NEW SENIORITY 02FEB66	B/LIEUT MLIT	B/LIEUT MLIT	PAY—SENIOR 02FEB66 RMKS	480/5
RANK TYPE CHANGE		ON 12JAN67							

Postings—Officers

Number	Initials	Surname	ON 24FEB67	A/RADM	DUTY—BILLET	Spec—Pay	(Message No.)
0137	A. L.	BROWN	ON 24FEB67	A/RADM	DUTY—BILLET	REMARKS—2NDNM—NAVAL BOARD C. OF	35160/2
FROM NAVY OFFICE HAR		TO NAVY OFFICE HAR					
012	B. M.	VIOLET	ON 08FEB67	CDRE	DUTY—BILLET	REMARKS—REVERTS TO CAPTAIN	35160/1
FROM HARMAN		TO ALBATROSS					
0137	C. N.	ORANGE	ON 01FEB67	CAPT GLEX	DUTY—ADDNL	REMARKS—	35160/1
FROM ALBATROSS		TO NAVY OFFICE HAR					
01	D. O.	BLACK	ON 04JAN67	CAPT GLEX	DUTY—PCOURSE—90124	REMARKS—LANGUAGE TRAINING RAAF	1230/2
FROM PENGUIN		TO LONSDALE					
02	E. P.	GREEN	ON 04JAN67	CAPT GLEX	DUTY—BILLET	REMARKS—IN COMMAND	1230/4
FROM LONSDALE		TO PENGUIN					
07	G. R.	RAINBOW	ON 04JAN67	LIEUT SSSG	DUTY—U/T	REMARKS—90 DAYS PRE-DISCHARGE-REFRESHER	3160/1
FROM KUTTABUL		TO KUTTABUL					
07	G. R.	RAINBOW	ON 03APR67	LIEUT SSSG	DUTY—DISCH	REMARKS—	3160/2
FROM KUTTABUL		TO KUTTABUL					
04	H. S.	SPECTRUM	ON DEP	LIEUT GLEX P	DUTY—ADDNL	REMARKS—ARCADIA ETD 7FEB67	1230/6
FROM ALBATROSS		TO CARPENTARIA					

APPENDIX A—continued

Number RAN	Initials	Surname	Present Rank	Spec—Pay	(Message No.)
04 FROM CARPENTARIA	H. S.	SPECTRUM TO CARPENTARIA	LIEUT GLEX P DUTY—LOAN	P REMARKS—2.5 YRS RN	1230/7
05 FROM IBIS	J. T.	PRISM TO PENGUIN	LIEUT GLEX DUTY—MED	REMARKS—	2310/2
06 FROM CERBERUS	K. U.	STRAW TO SYDNEY	LIEUT GLSU DUTY—BILLET	REMARKS—	2310/3

Part 2—Cancellations

06 FROM CERBERUS	K. U.	STRAW TO PARRAMATTA	LIEUT GLSU DUTY—BILLET	REMARKS—	3780/1 CANCELLED BY 6720/1
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APPENDIX B

Weekly List of Sailors Postings

Message/ Entry No.	PN	Surname	Initials	Rank	Effect Date	Ship From	Ship To	Duty Type	Remarks
10001/1	R64806	BARKER	R. E.	ABUW2	11AUG67	WATSON	PENGUIN	TBILLET	NOTE 3—EX ABUW CSE
10001/2	R64806	BARKER	R. E.	ABUW2	COM	PENGUIN	PLATYPUS	TBILLET	
10001/3	R32376	CLARK	R. A. F.	CPOQMG	3OCT67	VAMPIRE	CERBERUS	PFORLV	
10001/4	R32376	CLARK	R. A. F.	CPOQMG	CL	CERBERUS	CERBERUS	BILLET	NOTES 31-32
10001/5	R35804	QUIGLEY	R. A.	CPOWM	3OCT67	ENCOUNTER	VAMPIRE	BILLET	
10001/6	R52646	WEBSTER	R. D.	A/POWM	4SEP56	CERBERUS	LONSDALE	TBILLET	
10001/7	R52646	WEBSTER	R. D.	A/POWM	30NOV67	LONSDALE	VAMPIRE	BILLET	
10001/8	R36366	WALTON	J. D.	CPOQMG	16OCT67	DUCHESS	PENGUIN	BILLET	AND FOR INST. DUTIES
10001/9	R56863	QUINN	D. T.	LSQMG	3OCT67	DUCHESS	PENGUIN	BILLET	MCE
10001/10	R63054	STEIN	L. J.	ABQMG	3OCT67	DERWENT	ALBATROSS	PFORLV	25 DAYS HSL
10002/1	R63054	STEIN	L. J.	ABQMG	CL	ALBATROSS	ALBATROSS	BILLET	
10002/2	R59963	WASS	R. A.	ABQMG	3OCT67	ALBATROSS	CRESWELL	BILLET	
10002/3	R55785	JURD	P. T.	LSQMG	CC	CERBERUS	PENGUIN	BILLET	EX POQMG CSE
10002/4	R52296	HAMPTON	R. J.	LSUW	CC	WATSON	WATSON	BILLET	EX POUW CSE
10002/5	R93465	BAINBRIDGE- FULLER	R. W.	LSUW	CC	WATSON	SYDNEY	BILLET	EX POUW CSE
10002/6	R93472	BEALE	D. P.	ABUW	29SEP67	KUTTABUL	IBIS	BILLET	
10002/7	R59332	RANSON	E. J.	ABUW	29SEP67	LONSDALE	IBIS	BILLET	
10002/8	R62835	CHILCOTT	R. J.	ABUW	9OCT67	IBIS	HARMAN	BILLET	
10002/9	R62859	HARRIS	J. E.	ABUW	3OCT67	IBIS	ALBATROSS	BILLET	
10002/10	F20002	BODEN	W. L.	CPOFC	3OCT67	CERBERUS	CERBERUS	DISCH	
10003/1	R64686	FRANKLIN	R. J.	ORDWM	9AUG67	DESERTION	CERBERUS	DCIP	NOTES 3-4
10003/2	R64686	FRANKLIN	R. J.	ORDWM	FAO	CERBERUS	CERBERUS	COURSE—98765	ABWM CSE
10003/3	R57922	ADAMS	S. E.	LSRP	3OCT67	DUCHESS	WATSON	COURSE—87659	HC CSE
10003/4	R57992	ADAMS	S. E.	LSRP	CC	WATSON	DUCHESS	BILLET	EX HC CSE
10003/5	R52167	CLARK	B. V.	POCD	1SEP67	CDT3	WATERHEN	PFORLV	21 DAYS FSL
10003/6	R52167	CLARK	B. V.	POCD	CL	WATERHEN	RUSHCUTTER	BILLET	
10002/1	R40072	HUDSON	F. D.	CPOSV	21AUG67	KUTTABUL	KUTTABUL	NUSHIP	
10002/2	R40072	HUDSON	F. D.	CPOSV	COM	KUTTABUL	STALWART	BILLET	
10002/3	R62171	WOODALL	C.	CK	13NOV67	DUCHESS	CERBERUS	BILLET	
10002/4	R57557	HEARSE	D. G.	CK	22NOV67	MELVILLE	CERBERUS	PFORLV	14 DAYS HSL
10002/5	R57557	HEARSE	D. G.	CK	CL	CERBERUS	CERBERUS	BILLET	
10002/6	R55869	MORRIS	R. B.	POSN	18AUG67	PARRAMATTA	LONSDALE	PFORLV	EX SOAP DUTIES
10002/7	R55869	MORRIS	R. B.	POSN	CL	LONSDALE	LONSDALE	TEMDU	
10002/8	R55869	MORRIS	R. B.	POSN	9OCT67	LONSDALE	LONSDALE	BILLET	SOAP DUTIES
10002/9	R47064	GILLIES	M. G.	CPOWTR	25OCT67	HARMAN	TARANGAU	BILLET	NOTE 1—CANTEEN
10004/1	R42552	LANGAN	G. B.	A/LSAV	16OCT67	CERBERUS	PENGUIN	TEMDU	NOTES 29-40
10004/2	R42552	LANGAN	G. B.	A/LSAV	25OCT67	PENGUIN	WARATAH	U/T	
10004/3	R42552	LANGAN	G. B.	A/LSAV	COM	WARATAH	BRISBANE	BILLET	
10004/4	R48661	LAMBERT	D.	WTR	FAO	MELBOURNE	SUPPLY	TBILLET	NOTE 3
10004/5	R48661	LAMBERT	D.	WTR	28AUG67	SUPPLY	CERBERUS	TBILLET	NOTE 17

APPENDIX B—continued
POSTING NOTE 33/67

Message/ Entry No.	PN	Surname	Initials	Rank	Effect Date	Ship From	Ship To	Duty Type	Remarks
10004/6	R48661	LAMBERT	D.	WTR	11SEP67	CERBERUS	CERBERUS	COURSE—629020	WTR CSE
10004/7	R93449	PASHLEY	B. P.	SAN	18SEP67	ALBATROSS	HELOVIETNAM	ADDNL	NOTES 42-43
10004/8	R58881	HARRISON	C. D.	LCK	18DEC67	SUPPLY	NIRIMBA	PFORLV	
10004/9	R58881	HARRISON	C. D.	LCK	CL	NIRIMBA	NIRIMBA	BILLET	
10004/10	R64079	BUSBRIDGE	R. J.	CK	11DEC67	HARMAN	HOBART	BILLET	NOTE 1
10005/1	R64098	GOODACRE	J. A.	CK	11DEC67	ALBATROSS	HOBART	BILLET	NOTE 1
10005/2	R64068	BEVAN	G. R.	CK	11DEC67	PENGUIN	HOBART	BILLET	NOTE 1
10005/3	R64100	GRIMES	I. R.	CK	11DEC67	CRESWELL	HOBART	BILLET	NOTE 1
10005/4	R62354	EDGE...	P. J.	CK	20NOV67	HOBART	NIRIMBA	PFORLV	
10005/5	R62354	EDGE...	P. J.	CK	CL	NIRIMBA	NIRIMBA	BILLET	
10005/6	R62155	SIMPSON	V. I.	CK	20NOV67	HOBART	PENGUIN	PFORLV	
10005/7	R62155	SIMPSON	V. I.	CK	CL	PENGUIN	PENGUIN	BILLET	
10005/8	R62353	EASTWOOD	B. T.	CK	20NOV67	HOBART	CERBERUS	PFORLV	
10005/9	R62353	EASTWOOD	B. T.	CK	CL	CERBERUS	CERBERUS	BILLET	

Part 2—Cancellations

10006/1	R52296	HAMPTON	R. J.	LSUW	CC	WATSON	SYDNEY	BILLET	10000/1 CANCELLED
10007/1	R55013	CLARK	D. W. A.	LSWM	4SEP67	CERBERUS	SYDNEY	BILLET	10000/5 CANCELLED
10008/1	R52167	CLARK	B. V.	POCD	11SEP67	WATERHEN	RUSHCUTTER	BILLET	10000/6 CANCELLED
10009/1	R40072	HUDSON	F. D.	CPOSV	5JUL67	KUTTABUL	KUTTABUL	DISCH	10000/2 CANCELLED
10010/1	R63753	WILEY	G.	SBA	14AUG67	KUTTABUL	RUSHCUTTER	PCOURSE 145678	99999/7 CANCELLED

APPENDIX C
Postings—Duty Type Code

Code	Meaning
BILLET	.. Posted to a billet for a period of 90 days or longer.
TBILLET	.. Posted to a billet for a period of less than 90 days.
PCOURSE	.. Posted to a course. A relief may be posted.
COURSE	.. Posted to a course. A relief will not be posted.
ADDNL	.. Posted additional.
ATTACH	.. Posted for attachment to another Service.
DCIP	.. Posted disciplinary, e.g., posting to HMAS PENGUIN on recovery from RUN.
DISCH	.. Posted for discharge.
EXCH	.. Posted for exchange to another Service.
HDIS	.. Posted to half-pay for disciplinary reasons.
LOAN	.. Posted for loan to another Service.
MED	.. Posted to hospital or medical.
MISS	.. Posted missing.
NEWENT	.. The first posting of an officer on entry.
NUSHIP	.. A posting to an establishment, awaiting commissioning of a new ship.
PFORLV	.. Posted for leave.
PW	.. Posted prisoner of war.
TEMDU	.. Posted for temporary duty.
U/T	.. Posted for training.
DESERT	.. Used when a member in desertion is posted to a holding ship.

Remarks Code. When applicable, is to be reported as an alphabetical code, viz.—

Code	Meaning
CC	.. On completion of Course.
CL	.. On completion of Leave.
REL	.. On Relief.
ARR	.. On Arrival.
DEP	.. On Departure.
NOW	.. Forthwith.
FAO	.. First available Opportunity.
COM	.. On Commissioning.

SP. Denotes either the posting of a sailor to or from the Submarine Branch or the entitlement of an officer to special pay. When applicable, to be reported in encoded form, as follows—

Code	Meaning
<i>Sailor</i>	
1	.. Posting to Submarine Branch.
2	.. Posting from Submarine Branch.
<i>Officer</i>	
C	.. Command.
D	.. Diving.
O	.. Flying.
P	
H	.. Hydrographic.
S	.. Submarine.

Section 4**EQUIPMENT, STORES AND SERVICING**

UNCLASSIFIED

556—Corrosion Resistant Materials for use in Sea Water Systems in HMA Ships

Surveys of corrosion defects in HMA ships carried out by the Naval Corrosion Committee have revealed frequent corrosion failures due to the use of unsuitable materials. In order to avoid corrosion failures in sea water, fire mains and cooling systems which may seriously affect the ships efficiency, it is essential that the materials used in these systems are carefully selected to ensure maximum corrosion free life.

2. When using copper alloys in contact with monel or stainless steel in sea water systems, care must be taken to ensure that the more noble metals do not cause accelerated corrosion of the copper alloy. For example, if monel is used for the seat and lid of a gunmetal globe valve the comparatively small area of monel will not cause accelerated corrosion of the gunmetal. If copper alloy is exposed to sea water in contact with a large area of monel or stainless steel accelerated corrosion of the copper alloy will result.

3. The following information is promulgated for guidance in the proper selection of corrosion resistant alloys.

Copper Alloys

4. Copper alloys such as gunmetals, phosphor bronzes, aluminium bronzes, aluminium brasses, cupro-nickels and silicon bronzes have generally satisfactory resistance to corrosion in sea water. However, the copper zinc alloys containing 35 per cent to 40 per cent zinc such as Naval brass and brazing spelter are susceptible to dezincification corrosion and must not be used in contact with sea water.

Nickel-Copper (Monel)

5. Nickel-copper alloys (usually referred to as monel) made to BS 3071 NA1 (casting) or BS 3076 NA13 (wrought) are highly resistant to sea water corrosion and should be used in components where corrosion-erosion or cavitation conditions are severe, such as valve lids and seats and pump impellers. Monel may also be used for small components such as studs, screws and split pins where these are not available in suitable copper alloys.

Stainless Steels

6. In general, stainless steels should be used with caution in contact with sea water. Unless care is taken to select the correct grade of stainless steel, serious failures due to crevice corrosion or pitting may result. The most satisfactory grade of stainless steel for resistance to crevice and pitting corrosion is the 18/8 Mo grade (BS 970 En58J), and this should be used exclusively for equipment and fastenings where stainless steel is required in contact with sea water.

Plastics

7. Plastics should be considered as a substitute for metals in corrosion resistant applications for such items as pipes and pipe fittings in secondary services and minor auxiliary machinery cooling systems where there is no possibility of a major failure due to shock or thermal damage. In general, high impact PVC to Australian Standard K 138 Type D is the most suitable material.

8. Consideration should also be given to the use of reinforced plastics for tanks, duct work, lightly stressed structures and castings where corrosion conditions are severe. In many such instances, plastics will be cheaper as well as being lighter than metals.

Use of Corrosion Resistant Materials

9. The following table lists ferrous and non-ferrous alloys which are to be used in sea water systems in HMA ships. Also included is the maximum desired water speeds to avoid impingement attack (corrosion-erosion) in copper and cupro-nickel piping.

10. Comprehensive information on corrosion and physical characteristics of metals is contained in Naval Construction Manual Volume 5.1.

Maximum Water Speeds for Copper and Copper-Nickel-Iron Pipes

Alloy	Max. Speed Ft./Sec.
Copper	3
Copper-Nickel-Iron 99/10	10
Copper-Nickel-Iron 70/30	10

APPENDIX
Ferrous and Non-ferrous Alloys Used in Contact with Sea Water

Alloy	Form	Typical Use	Approved Specifications	Alternate Specifications
Aluminium Bronze (9 per cent Aluminium)	Wrought (Annealed or Cold Drawn)	Rods, bars and sections. Used extensively for marine hardware for parts requiring relatively high strength, ductility, corrosion resistance and low magnetic permeability. Production of bolts, studs, nuts and washers	ADSPEC 1076-C (Rods, Sections and Forgings) ADSPEC 1131-A (Bolts, Studs and Nuts)	BS 2032
Aluminium Bronze (7 per cent Aluminium)	Wrought (Rolled Plate and Sheet)	Condenser tube plates. Plate, sheet, strip and rolled bar for corrosion resistant purposes. Also used for corrosion resistant tanks and vessels	DGS/6540	BS 2870 (Sheet and Strip) BS 2875 (Plate) ASTM B171 Alloy D
Aluminium Bronze (9 per cent Aluminium)	Castings	Used extensively for marine castings requiring medium strength and good ductility valves, bushings, pump rods and underwater detection equipment	ADSPEC 1070	BS 1400 and AB 1-C (With maximum Lead content of 0.03 per cent)
Aluminium Brass	Wrought (Solid Drawn Tube)	Use largely confined to heat exchanger tubes and salt water piping. Often used for distiller tubes where "Hot Spot" conditions may arise	BS 2871-CZ110	BS 378-CZ110

<i>Alloy</i>	<i>Form</i>	<i>Typical Use</i>	<i>Approved Specifications</i>	<i>Alternate Specifications</i>
Aluminium - Nickel - Iron-Bronze (10 per cent Aluminium)	Wrought (Extruded, Rolled, Forged or Drawn Rods and Sections)	High strength components where notch ductility is not of first importance. Used for pump shafts and propeller shafts where non-magnetic properties are required and miscellaneous components where resistance to corrosion allied with good impingement and cavitation resistance is required	DNC/C 5	BS 2033
Aluminium - Nickel - Iron-Bronze (10 per cent Aluminium)	Castings	High strength corrosion resistant parts such as propellers and impellers. Also for pump rods, bushings and bearings	DGS/8520-C	BS 1400 AB 2-C
Phosphor Bronze (5 per cent Tin)	Wrought (Rods and Sections)	Bellows, diaphragms, springs, switch parts, chemical hardware and pump shafts	DNC/C 20	BS 369
Phosphor Bronze (9 per cent Tin)	Castings	Worm wheels, gears and heavily loaded bearings at low speeds. Many corrosion resistant duties	DNC/C 22	BS 1400 PB 3-C
Silicon Bronze	Wrought (Sheet)	Hot water storage tanks and calorifiers	ASTM B96-58 Alloy D	BS 2870
Silicon Bronze	Wrought (Rods and Sections)	Recommended for marine hardware where relatively high strength, ductility, corrosion resistance and low magnetic permeability is required. Good bearing material under oil lubricated conditions	BS 1948	BS 2874

Copper (Phosphorus Deoxidised Non-arsenical)	Wrought (Solid Drawn Tube)	Gas lines, heater lines, oil burner tubes, pipes and tubing for plumbing. Condenser, evaporator and heat exchanger tubes	DGS/8556B	BS 2871-C 106
Copper (Phosphorus Deoxidised Arsenical)	Wrought (Rolled Sheet)	Boat hull sheathing	BS 2870-C 107	
Copper - Nickel - Iron (90/10)	Wrought (Solid Drawn Tubes)	Salt water piping. Condenser tubes and tube plates. Ferrules	DGS/8558-B	BS 2871-CN 102 (With Iron content between 1.5 and 2.0 per cent)
Copper - Nickel - Iron (70/30)	Wrought (Solid Drawn Tubes)	Condenser tubes and ferrules. Piping. Used extensively in submarines	DGS/8559-D	BS 2871-CN 107
Gunmetal	Castings	Good alloy for pressure tight castings. General purpose alloy for corrosion and erosion resistant duties. Can be cast more easily than casting to BS 1400-G 1-C	DGS/8521 (With 1.8-2.2 per cent Nickel content)	BS 1400-LG4-C (With 1.8-2.2 per cent Nickel content)
Gunmetal	Castings	Bearings, bushes, rudders, skegs, pump bodies, boat fittings and castings. Widely used alloy for corrosion resistant duties and where good impingement resistance is required	BS 1400-G1C	
Silver-bearing Brazing Alloys	—	Suitable for joining Copper and Copper alloys. Slight attack of filler near junction with Copper-Nickel alloys	DGS/8688-B	BS 1845 Type 3 or Type 5

Alloy	Form	Typical Use	Approved Specifications	Alternate Specifications
Nickel Copper (Monel)	Castings	Should be used in components where erosion-corrosion or cavitation conditions are severe, such as valve lids, seats and pump impellers	BS 3071 NAI	—
Nickel Copper (Monel)	Wrought (Rods and Sections)	Many applications involving high strength and corrosion resistance in marine environments. Pump shafts, propeller shafts and general hardware used for small components such as studs, screws and split pins where these are not available in suitable copper alloys	BS 3076 NAI13	—
Stainless Steel (Austenitic)	Wrought (Forgings, Bars, Rods, Sheet and Plate)	Sheet and plate applications for corrosion resistant duties. Forgings for pump shafts and other shafting where corrosion resistance is required; also WT door handles. Resistant to sulphuric acid at atmospheric temperatures	BS 970 EN58J	—

(ACDC 1211/51/431)

UNCLASSIFIED

557—Guided Weapons—Seacat—Drill Missiles—Improvements to Prevent Damage

HMA Ships concerned All fitted with Seacat Guided Weapons Systems.

2. *Information* Considerable damage is being caused to the wooden fins and sheaths of the Seacat drill missiles during transit, due to movement of missiles on the canisters.

2. It has been decided that the trouble can best be cured by substituting a "fired" operational canister base for the normal drill canister base.

3. *Action to be taken by RANADs* .. "Fired" operational canister bases are to be modified and substituted for drill canister bases for all drill missiles. The work consists of removing the support beam from the drill canister base and fixing it to the "fired" operational canister base.

(DAS 740/52/179)

UNCLASSIFIED

558—Naval Stores—Minesweeping Floats, Kite Otter Multiplanes and Otters—Anti-corrosion Treatment

(DCI (RN) 1013/1965)

It has been decided that the following patterns of minesweeping floats, kites, etc., used by Ton Class minesweepers, and at present in stock or in service are to be given the tests and anti-corrosion and preservative treatment described in Paragraph 2 below.

Class Group 0232

16018	Float, sweep 6-ft. 8-in.
14274	Float, sweep 12-ft.
8718	Float, sweep.
8733	Kite Otter Multiplane.

2. The treatment is to be as follows—

(a) Carry out visual inspection for any signs of damage or distortion which might affect performance. In the case of floats this inspection should also pay particular regard to any evidence of damage or poor welding which might affect watertight integrity. Faults or defects should be made good before proceeding, and be followed in the case of repairs to floats by an air pressure test. A pressure of 10-lb. psi should be held with the float immersed in water. On completion of any repairs or testing, grit blasting should be repeated as necessary.

- (b) Grit blast all surfaces.
- (c) Immediately after (a) and (b) above, zinc spray by an approved process to a minimum thickness of 0.006-in.
- (d) Degrease and coat surface with pre-treatment primer, base component in conjunction with acid component and thinners to DEF Spec. 1402 from the following range—
- (i) Phosphoric Acid Pre-treatment Solution MIS131.
 - (ii) Chlorinated Rubber Paint Primer CR150 DEF Spec. 1402.
 - (iii) Chlorinated Rubber Paint White CR151.

With regard to (a) above, cases have occurred in which the damage sustained by floats in explosive shock trials has been found to be attributable in part to defective welding during manufacture. The possibility of defective welds is not considered sufficient to justify the employment of measures other than careful visual inspection which should be carried out by an officer with welding experience.

3. Arrangements should be made by authorities for the work to be carried out as follows—

Stocks held at Naval Stores—All stocks to be treated, a progressive programme being arranged having regard to rates of local expenditure for representative quantities of each pattern to be dealt with at a time.

Equipment held on board Ton Class Minesweepers and at HMAS WATERHEN—By raising of Defect List items, this order being quoted as authority. Untreated items on board are to be exchanged for treated items when availability permits.

(DNS 400/1/310)

RESTRICTED

559—Sirens—Ships Sirens—Increased Audibility

(DCI (RN) 631/1967)

In order to improve the arc and range of audibility of sirens it has been decided that in ships equipped with two sirens, arrangements should be made to permit the sirens to be sounded simultaneously.

2. With steam sirens there is a strong possibility that, because of variation of drainage arrangements, both sirens will not commence to sound simultaneously. This is potentially dangerous when steam sirens are being sounded by ships in sight of one another to indicate intentions, thus it must remain possible to select and operate either siren independently.

3. In ships with electrically operated air or steam sirens or electrical sirens, the required facility can be provided by modifying the control equipment or system wiring.

4. For lanyard controls it will, in most ships, be necessary to re-route the lanyards so that one operator can, if required, pull both lanyards simultaneously while still retaining the ability to sound each siren independently. In certain ships, however, it may be impracticable to make satisfactory arrangements.

5. All ships in which the facility does not exist are to raise a defect item for conversion of existing equipment to meet the above requirement, subject to first establishing by trial that adequate supplies of air or steam are available for sounding two sirens together for a reasonable period; as a guide this should be taken to mean the requirement to sound three blasts in succession, each of six seconds duration.

6. Navy Order 473 of 1966 is hereby cancelled.

(ACDC 1211/252/49)

(Navy Order 473 of 1966)

UNCLASSIFIED

560—Stores General (Group Class 4930)—Lubrication and Fuel Dispensing Equipment—Change of Stock Numbers

The Stock Number of the undermentioned item has been changed as follows—

Old Stock Number		Item Name	New Stock Number	
Group Class	Catalogue Number		Group Class	Catalogue Number
4930	00-363-6099	Ball Bearing	3110	00-100-6210

2. Action is to be taken to adjust accounts in accordance with ABR 4 (Naval Storekeeping Manual) Article 1812.

(DSAP 506/51/339)

UNCLASSIFIED

561—Weapons—Instructions for the Conduct of Weapon Equipment Tilt Test

In a recent case of damage to a hull outfit whilst preparing to carry out a weapon equipment tilt test, it was evident that confusion existed on the correct preparations to be made.

2. The ship requirements for carrying out tilt tests are detailed in BR 983/65, and Figure 3.1 shows typical docking arrangements. However, this BR does not detail the state of underwater fittings.

3. Attention is drawn to the safety precautions to be observed with regard to underwater fittings, i.e., hull outfits and logs, when docking.

4. Navy Order 288 of 1966 also refers.

(DWE 700/51/54)

(Navy Order 288 of 1966)

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

562—Books—Textbooks and Instruments for Educational Purposes

Approval has been given for the addition of Asian History to the list of subjects available in the Services General Certificate of Education (SGCE) examinations as detailed in Navy Order 136 of 1967. The initial Asian History examination will be conducted in October/November, 1968.

2. A list of SGCE textbooks is included in Navy Order 216 of 1967. The following additional textbooks have been approved for use in preparation for Asian History and will be issued without demand—

<i>Ref. No.</i>	<i>Description</i>
MBR 8824	Birth of Communist China.
MBR 8825	History of Modern Japan.
MBR 8826	Asia in the Modern World (Supplementary Reading).
MBR 8827	East Asia: The Great Tradition (Instructors Reference and Supplementary Reading).

(DNES 451/51/9)

(Navy Orders 136 and 216 of 1967)

UNCLASSIFIED

563—Textbooks and Equipment on Loan to Undergraduate Officers

On completion of a course, or at such other time during the course as may be appropriate, textbooks, reference books or any other equipment issued on loan to a member to assist him in his studies will be recovered from the member.

2. On recovery the items will be held for re-issue in the following order of disposal—

- (a) where practicable, to other members undertaking courses and requiring similar books or equipment;
- (b) to Naval libraries, etc., if required as reference books;
- (c) to a member on loan where appropriate authority certifies that, having regard to the members duties, it is necessary for Service reasons that the member have such books, etc., in his possession as distinct from obtaining them from a Naval library.

3. Items becoming obsolete or obsolescent and not required for further use are to be declared for disposal in the normal manner.

(HPB 465/258/433)



AUSTRALIAN NAVY ORDER

Navy Office, Canberra,
29th December, 1967.

The enclosed order is promulgated for information,
guidance and necessary action.

By direction of the Naval Board,

Handau.

*The Flag Officer Commanding HMA Fleet,
Flag Officer and Naval Officers in Charge, Captains
and Commanding Officers of HMA Ships, Officers in
Charge of HMA Naval Establishments, and others
concerned.*

FOR OFFICIAL USE ONLY

Section 5

BOOKS, CORRESPONDENCE, FORMS AND STATIONERY

UNCLASSIFIED

564—Distribution of Magazines, Pamphlets and Amendments to Publications, Etc., During September, 1967

The magazines, pamphlets and amendments to publications, etc., contained in the Appendix to this order have been distributed to ships and Services during September, 1967.

2. Copies of amendments referred to in the Appendix to this order are available for supply to holders of personal copies of Books of Reference and Air Publications in accordance with Article 2517 (6) of ABR 4.

APPENDIX

BR AMENDMENTS

BR No.	Amendment No.
BR 10	Cumulative Suppt. to 1967 Edition Corrected to 31.3.1967
BR 125	Suppt. No. 11, June, 1967
BR 125	New Entries No. 11, June, 1967
BR 226D (14)	Teacher Outfit HRQ
BR 227 Pt. 2	Change No. AN2
BR 214 (3)	Change No. 2
BR 268 (71)	Change No. 1
BR 268 (71)	Change No. 2
BR 664	Amendment No. 48
BR 664	Amendment No. 49
BR 1279	Change No. 1
BR 1492 (A) 1	Amendment No. 15
ABR 1692	Change No. 1
BR 1705 (8)	Change No. 4
BR 1865C	Change No. 3
BR 2047 (A) 5	Change No. 3
BR 2047 (A) 14	Change No. 1
BR 2050 (402C)	Change No. 6
BR 2065 (2)	Change No. 2
BR 2065 (3)	Change No. 3
BR 2130 (3D)	Change No. 3
BR 2130 (3E)	Change No. 3
BR 2541 (2)	Change No. 6
BR 2541 (1)	Change No. 6
BR 2976	Change No. 1
MBR 8001	Amendment Sheet 11—Issue No. 22
MBR 8074	Suppt. No. 6
MBR 8074	Suppt. No. 7

BOOKS, MAGAZINES AND PAMPHLETS

Publication	Date
Aeroplane	19.7.1967
Aeroplane	5.7.1967
Aeroplane	28.6.1967
Aeroplane	12.7.1967
Aeroplane	21.6.1967
Aeroplane Vol. 114 No. 2910	26.7.1967
Aeroplane Vol. 114 No. 2911	2.8.1967
Aeroplane Vol. 114 No. 2912	9.8.1967
Approach	July, 1967
Electronic Design News	August, 1967
Electronic Information Bulletin No. 667	1.11.1965
Electronic Information Bulletin No. 669	29.11.1965
Electronic Information Bulletin No. 670	13.12.1965
Electronic Information Bulletin No. 671	27.12.1965
Electronic Information Bulletin No. 672	10.1.1966
Electronic Information Bulletin No. 673	24.1.1966
Electronic Information Bulletin No. 675	28.2.1966
Electronic Information Bulletin No. 676	14.3.1966
Electronic Information Bulletin No. 704	10.4.1967
Electronic Information Bulletin No. 705	24.4.1967
Electronic Information Bulletin No. 706	8.5.1967
Electronic Information Bulletin No. 707	22.5.1967
Electronic Information Bulletin No. 708	5.6.1967
Electronic Information Bulletin No. 709	19.6.1967
Electronic Information Bulletin No. 710	3.7.1967
Flight Vol. 91 No. 3040	15.6.1967
Flight Vol. 91 No. 3041	22.6.1967
Flight Vol. 92 No. 3043	6.7.1967
HMSO Government Publications	May, 1967
NAMAN Vol. 22 N 2661-N 2665	
UK Journal of the Institute of Navigation Vol. 20 No. 3	July, 1967

NAVWEP AND NAVSHIP AMENDMENTS

Publication	Change
Navships 92988	Suppt. No. 1
Navships 0967-971-9010	Change T dated 1st December, 1966
Navwep OP 1764-1PB Vol. 1	Change No. 2
Navwep OP 1764-1PM Vol. 3	Change No. 1
Navwep OP 2213 1st Revision	Change No. 10
Navwep OP 2531	Change No. 2
Navwep OP 2579 (PMS/SMS) Vol. 2	Change No. 3 dated 1.4.1967
Navwep OP 2579 (PMS/SMS) Vol. 2	Change No. 1 dated 1.7.1966
Navwep OP 2579 (PMS/SMS) Vol. 2	Change No. 2 dated 15.7.1966
Navwep OP 2579 (PMS/SMS) Vol. 3	Change No. 1 dated 1.7.1966
Navwep OP 2579 (PMS/SMS) Vol. 3	Change No. 2 dated 15.7.1966
Navwep OP 2579 (PMS/SMS) Vol. 3	Change No. 3 dated 1.4.1967
Navwep OP 2579 (PMS/SMS) Vol. 4	Change No. 1 dated 1.7.1966
Navwep OP 2579 (PMS/SMS) Vol. 4	Change No. 2 dated 15.7.1966

NAVWEP AND NAVSHIP AMENDMENTS—continued

Publication	Date
Navwep OP 2579 (PMS/SMS) Vol. 4	Change No. 3 dated 1.4.1967
Navwep OP 2585 (PMS/SMS) Vol. 3	Advance Change Notice 0-1
Navwep OP 2585 (PMS/SMS) Vol. 4	Advance Change Notice 0-2
Navwep OP 2665 Suppt. Vol. 1	Change No. 3 dated 20.12.1965
Navwep OP 2665 Vol. 2	Change No. 7 dated 15.4.1967
Navwep OP 2665 Suppt. Vol. 2	Change No. 3 dated 1.7.1967
Navwep OP 2665 Vol. 4	Change No. 2 dated 15.12.1965
Navwep OP 2665 Vol. 4	Change No. 3 dated 20.12.1965
Navwep OP 2665 1PB Vol. 5 First Revision	Change No. 8 dated 15.6.1967
Navwep OP 3010 (imp) Vol. 4 Pt. 2	Advance Change Notice 5-3
Navwep OP 3270	Change No. 2

AMENDMENTS TO AIR PUBLICATIONS

AP No.	AL or Leaflet
101A-1105-1	AL 19
109A-0001-2	(AL 1127)-B 661 (Alt. 1 Incorp.) (AL 1126)-B 665 (Alt. 1 Incorp.) (AL 1128)-B 707 (Alt. 1 Incorp.) (AL 1129)-B 748 (Alt. 1 Incorp.) (AL 1131)-B 750
109A-0002-1	AL 131 and 132
109B-0101-5	AL 22
116B-0102-3ACD	AL 6
116D-0102-1A (2nd Edition)	AL 20 AL 21
116D-0102-2	(AL 13)-B 4 (AL 14)-B 8
116D-0106-3A (N)	AL 10
119A-0600-1	AL 83
1086 Book 1 (2nd Edition)	AL 44
1182 (N) Vol. 2	(AL 228)-G 48 (AL 229)-D 13
1182 (N) Vol. 4 Parts 2 and 6	AL 27
1182C (NAVAL) Vol. 1	AL 13 AL 38 AL 39 AL 40 AL 41 (with Errata) AL 42 AL 43 AL 44 AL 47 AL 48
1181D Vols. 1 and 6 Part 1	AL 52 with Corrigendum Leaflet 1/67
1182E (NAVAL) Vol. 1	AL 37
1182E Vol. 6 (2nd Edition)	AL 4
1275A Vol. 1 Section 18	AL 118
1275A Vol. 3 Part 1 (N) Book 1	AL 20

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
1275Q	AL 26
1464G Vol. 1	AL 209
1469Q Vol. 1 Book 3	AL 17
1492A Vol. 1	AIL 2/67
1538 Vol. 1	AL 63
1602 Part 3	Correction May, 1967, Air Almanac
1661F Vol. 1	AL 163
1664A (2nd Edition) Vol. 2 Part 3	AL 114
Book 2	
1664D (2nd Edition) Vol. 1 Parts 1 and 3	AL 80
1664E Vols. 1 and 5	AL 43
1803P Vol. 1	AL 164 AL 165
1803 Vol. 2 Part 1	(AL 1)-V 90
2173A Vol. 6 Parts 2 and 3	AL 33
2239A Vol. 2 Part 3	AL 124
2337 Vol. 1 Book 1	AL 96
2337 Vol. 1 Book 2	AIL 1/67
2337 Vol. 2	(AL 225)-C 109
2487A and B Vol. 2	(AL 31)-B 25
2530M Vol. 2	(AL 32)-A 3
2531A and C Vol. 2	(AL 98)-B 77
2534NA Vol. 2	(AL 40)-B 32 (AL 41)-B 33
2536C Vol. 2	(AL 13)-B 9
2554E Vol. 2	(AL 22)-B 14 (Cancellation)
2802A (2nd Edition) Vol. 1 Parts 1 and 3	AL 85 and AL 87
2887N Vol. 2	(AL 125)-B 77
3042A Book 1	AL 14
4121C Vol. 2 Part 1	(AL 112)-B 3 (Alt. 1 Incorp.)
4338A Vol. 2	(AL 6)-B 3
4343C Vol. 1 Book 3 Section 5	AL 65
4343D Vol. 2	(AL 153)-A 14
4343D Vol. 3 Part 1 (NAVAL)	AL 22, 23, 24 and 25
4343X Vol. 1 Section 3 Book 1	AL 78
4361G Vol. 1	AL 66
4411A Vol. 2	AL (RAN) 2
4487A and D Vol. 3 Part 2	AL 115
4487B and E Vol. 3 Part 2	AL 142
4487D, E and F Vol. 5 (N) Book 1	AL 18
FS	
4487D, E and F Vol. 5 (N) Book 2	AL 28
FS	
4515S Vol. 3 Part 1 Chapter 12	AL 2
4723A Vol. 1 Book 2	AL 94

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
4723A Vol. 2	(AL 195)-J 36 (AL 200)-J 38 (AL 202)-J 39 (AL 204)-J 40 (AL 191)-K 9 (AL 194)-K 10 (AL 201)-K 11 (AL 193)-M 13 (AL 198)-M 14 (AL 197)-P 23 (AL 190)-Q 12 (AL 199)-Q 13 (AL 203)-Q 14 (AL 192)-V 5 (Alt. 1 Incorp.) (AL 187)-X 1
4723A Vol. 5 (NAVAL) Book 1 ..	AL 25
4723A Vol. 5 (N) FS Book 2 Issue 1	AL 31, 32 and 33
4723A Vol. 5 (N) FS Book 3 ..	AL 19
4723ML	AL 18
4737A Vols. 1 and 6	AL 67
4758A and B Vol. 2	(AL 61)-F 9 (AL 63)-G 14 (AL 64)-V 2
4776 with O/L 115A-0200-1 ..	AL 27
(RAN) 8 Vol. 1 Book 3	AIL (RAN) 26 AIL (RAN) 27 AIL (RAN) 28 AIL (RAN) 29
(RAN) 8 Vol. 1 Book 6	AL 25, 26 and 27
(RAN) 8 Vol. 2	AIL (RAN) 117 Issue 2 AIL (RAN) 135 AIL (RAN) 136
(RAN) 8 Vol. 3 Part 2	AL 82
(RAN) 8 Vol. 5 Book 1	AL 18
(RAN) 8 Vol. 5 Book 2	AL 63 and 64
(RAN) 8 Vol. 6 Part 1	AL 20 and 21
(RAN) 8 Vol. 6 Part 3	AIL (RAN) 59 AIL (RAN) 60 AIL (RAN) 61 AIL (RAN) 62 AIL (RAN) 63 AIL (RAN) 64 AL 46, 47 and 48
(RAN) 9 Vol. 2	AIL (RAN) 5 AIL (RAN) 6 AIL (RAN) 7
(RAN) 9 Vol. 6 Part 1	AIL (RAN) 3
(RAN) 9 Vol. 6 Part 4A	AIL (RAN) 4
(RAN) 9 Vol. 6 Part 4B	AL 19 and 20
(RAN) 9A Vol. 6 Part 4A	AL 36
(RAN) 9B Vol. 1	AL 8

AMENDMENTS TO AIR PUBLICATIONS—continued

AP No.	AL or Leaflet
(RAN) 9AB Vol. 2	Transmittal Letter No. 58
(RAN) 10 Vol. 2	(RAN)/MOD. 5038
(RAN) 10 Vol. 2 Book 2	AL 11
(RAN) 19 Vol. 5 Book 1	AL 18
(RAN) 26 Vol. 5 Book 2	AL 27
(RAN) 39 Vol. 1	AL 2
AP (N) 140	AL 34 and 35 AIL 3/67
AP (N) 141	Air Diagram Index February, 1967 Air Diagram Index July, 1967
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