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ADMIRALTY FLEET ORDER

**TOOL KITS FOR R.N. AIR PERSONNEL—SUPPLY,
ACCOUNTING, STOCKTAKING, ETC.**

ADMIRALTY, S.W.1,

1st April, 1943

The following Order having been approved by My Lords Commissioners of the Admiralty is hereby promulgated for information and guidance and necessary action.

By Command of their Lordships,

J. V. Markham

Distribution Limited

To *Commanders-in-Chief, Flag Officers, Senior Naval Officers, Captains and Commanding Officers of H.M. Ships and Vessels carrying Aircraft, Superintendents or Officers in Charge of H.M. Naval Establishments, and Admiralty Overseers concerned.*

NOTE :—The scale of distribution is shown in the Admiralty Fleet Order Volume, 1941, Instructions, paragraph 10.

1414.—Tool Kits for R.N. Air Personnel—Supply, Accounting, Stocktaking, etc.

(N.S. Air 978/43.—1.4.1943.)

The following instructions cover all existing effective regulations concerning tool kits allowed for the use of personnel employed on maintenance of Naval aircraft, and embody additional information detailing a procedure which should ensure the undermentioned tool kits being complete as far as practicable. The instructions are to be complied with in order that the very serious deficiencies of tools may be made good with the least possible delay :—

Types of tool kits and ratings to which they are appropriate :—

Type "A" Kit	... { Air Artificer Air Apprentice A/E
Type "B" Kit	... { Air Fitter "A" Air Mechanic "A"
Type "C" Kit	... { Air Fitter "E" Air Mechanic "E" Air Fitter "O" Air Apprentices (1st 12 months' training)
Type "D" Kit	... { Air Fitter "L" Air Mechanic "L"
Type "E" Kit	... { Air Mechanic "O" W.R.N.S. "Q.O.(A)."
Type "F" Kit	... Radio Mechanic, and all ratings employed on W/T and R.D.F. maintenance duties on Naval aircraft.
Type "G" Kit	... Air Apprentice L/O.

W.R.N.S. and R.A.F. personnel of equivalent trades will require to be provided with similar kits.

Conditions of Supply

2. *R.N. Air Apprentices.*—R.N. Air Apprentices will, during their initial period of training, use the type "C" tool kit, which will be issued on loan and withdrawn on completion of 12 months' training. The maintenance of these kits will be the responsibility of the Crown, except that losses and damage due to misconduct or neglect will be charged against the individual concerned. When R.N. Air Apprentices commence their specialised training, they are to be supplied from Service sources, free of charge, with a tool kit appropriate to the trade to which they are allocated.

3. *R.N. Air Artificers and Fitters.*—All R.N. Air Artificers and Fitters are entitled, free of charge, to an initial supply of a tool kit appropriate to their trade. Any of these ratings not yet equipped are to be kitted up from Service sources.

4. These kits, on issue, become the personal property of the individuals, who will be responsible for maintaining them at their own expense up to the full scale authorised by the Admiralty.

5. *R.N. Air Mechanics.*—All R.N. Air Mechanics are entitled to an initial supply of a tool kit appropriate to their trades, free of charge, from Service stocks. Any of these ratings not yet equipped are to be kitted up from Service sources. Direct entry R.N. Air Mechanics will receive their kits before completion of their training periods either at R.A.F. Training Schools or R.N. Training Establishments.

6. These kits are issued as a personal loan, and will remain the property of the Crown. They will accompany the ratings on transfer.

7. *R.A.F. Artificers, Fitters and Riggers, temporarily attached to the Navy.*—These ratings will be supplied on loan with the appropriate Naval tool kits from Service sources, the cost being chargeable to the Crown. The conditions and procedure applicable to R.N. Mechanics will also apply to R.A.F. personnel.

Method of obtaining initial Kits

8. Demands for kits required are to be forwarded as follows :—

R.N. Air Training Establishments

(For Apprentices and direct entry Fitters and Mechanics)

Newcastle-under-Lyme } The Superintending Naval Store Officer, Midland Area, Stafford.
H.M.S. "Drake" (M.T.E.) }
H.M.S. "Ariel" }
H.M.S. "Cochrane" (M.T.E.) } The Superintending Naval Store Officer, Perth.
Lee-on-Solent (For R.N. detachments at R.A.F. Training Schools)	The Superintending Naval Store Officer, Midland Area, Stafford.
R.N. Training Establishments abroad.	Storing Yard.

Note.—Tool kits for the R.N. Air Fitters and Mechanics at R.A.F. Training Schools are to be obtained from Lee-on-Solent by the Officer-in-Charge of the R.N. Detachment, as convenient, during training. A small stock in addition to known requirements may be maintained at each of the R.N. Training Establishments and at Lee-on-Solent. R.N. Store Depots and other issuing authorities are to ensure that the kits are as complete as possible before being issued.

Accounting, etc.

9. All tool kits are to be issued outright from main ledger charge, Form S.156 being used for the purpose. They are not to be further accounted for in Ships' or Stations' Store Accounts. A notation that a kit has been supplied or is held by the rating is to be made on Form S.138 (shown as Appendix VIII hereto). Deficiencies are to be noted as provided for in paragraph 14 below.

10. Replacements of tools lost, broken, or worn out, in the kits referred to in paragraphs 2 and 3, may be made from Service sources, *on repayment*, provided the Commanding Officer is satisfied that the circumstances are such that replacements cannot readily be obtained from commercial sources.

The charges to be made are set out in paragraph 47, Table II, Column B, of the Appendix to Memorandum of the Rate Book for Naval Stores, O.U 5409. These are also to be applied to R.A.F. types of items issued on repayment.

11. Replacements in respect of the tools in the kits referred to in paragraphs 5 and 7 will be made from the Naval Store, subject to the value of any tools lost or damaged through misconduct or neglect being recovered in accordance with K.R. & A.I., Article 1936.

Returns

12. Personal tool kits from deceased or discharged Air Artificers, Air Fitters, and Air apprentices may be purchased at two-thirds their Naval rate book or R.A.F. vocabulary value, taken on main ledger charge and returned to the Naval Store Officer at the nearest R.N. Store Depot (at Home) or Dockyard (abroad), Form S.331 being used. The value credit is to be shown separately on Form S.46 as "credit in respect of tools". Tools which are not suitable for re-issue should not be bought in but should be auctioned with other personal effects. On death or discharge of R.N. Air Mechanics, R.A.F. ratings, or W.R.N.S., also on R.A.F. ratings ceasing to be attached to the Navy, their kits are to be returned into store and any quantities surplus to requirements are to be despatched to the Naval Store Officer of the nearest R.N. Store Depot (Home) or Dockyard (Abroad), Form S.331 being used.

Stocktaking

13. On receipt of this Order all tool kits held by aircraft maintenance personnel (including W.R.N.S. and R.A.F.) are to be mustered against the appropriate Muster Sheet and Issue Voucher shown as an Appendix hereto, which will be reproduced as Form S.137 A to G for the purposes of periodical mustering. These forms show the composition of the various kits.

14. The deficiencies revealed at the initial muster are to be investigated, replacements made, and the kits completed as far as practicable from stocks held locally. To effect this, the Form S.137 showing the result of the stocktaking is to be taken to the main store and used as an issue voucher for any items which are immediately available. Items which cannot be met from stock are to be deleted from the Form S.137, noted for inclusion in the demands referred to in paragraph 18, and transcribed by the supply rating to Columns 1-3 (inclusive) of Form S.138,

which is forthwith to be pasted into the pertinent pay book; on page 15 of S.43a (Sailors' Pay Book) and on the inside of the back cover of Form 64 (Airmen's Pay Book), and the entries in the Service Certificates or Airmen's Record of Kit cancelled—see A.F.O. 1359/39 paragraph 24 and A.F.O. 1073/40 paragraph 13. All articles on Form S.138 are to be initialled by the Accountant Officer or his representative.

15. If evidence shows, or if it can be reasonably inferred, that an item deficient had been previously supplied from Service sources, the mustering Officer will, if circumstances indicate that the deficiency is due to misconduct or neglect, insert the letter "C" in the appropriate column on Form S.137, indicating thereby his recommendation that the loss or damage should be charged for. In any case of doubt, the rating is to be given the benefit. It is to be noted that *all* issues made to Artificers, Fitters, and Apprentices, except tools supplied to complete the initial free issue authorised by paragraphs 2 and 3 above, are to be charged for—see paragraph 10.

16. On presentation of the Form S.137 at the main store, the supply staff will raise Forms S.126 in respect of shortages in the kits of all air personnel (except Artificers, Fitters, and Apprentices), against which the letter "C" has been inserted by the mustering officer. These forms will then be placed before the Captain who will decide whether or not the deficiency is to be charged for. It is pointed out that these charges relate to the items which have been lost or broken, and *not* to the items being issued in replacement to Mechanics, R.A.F. personnel and W.R.N.S. Charges against Artificers, Fitters, and Apprentices, however, do relate to the replacement issue. For these ratings Forms S.549 should be used and are to be raised *at the time the replacement item is issued*.

17. Owing to frequent movements of ratings, and the difficulties which would be involved by the originating ship or station making good deficiencies after a rating had been drafted elsewhere, demands for the deficiencies revealed at the initial muster are not to be lodged with the Accountant Officer (see paragraph 14), but he is to keep the Air Engineer Officer informed of the arrival at the station of consignments of *hand* tools to ensure their early issue to complete deficient tool kits. For the sake of simplicity and economy this may be done through the medium of the counter book, Form S.149, on presentation by the rating of the deficiency list in his pay book at the main store. Columns 5-8 (inclusive) of Form S.138 are to be completed on each occasion of such issues.

18. Action has already been taken to supply kits to services which have reported details of their requirements, but on completion of the initial muster and the making good of deficiencies in the kits now held, ships and stations are to forward demands covering all their requirements both for complete kits and for individual tools required to complete any kits which are still deficient. The demands are to be lodged with the (S.)N.S.O. of the appropriate R.N. Store Depot or Storing Yard, this Order being quoted as the authority. Separate demands are to be lodged on behalf of each 1st line squadron, the number of the squadron being shown at the head of the Form S.134d. If the squadron is transferred before supply is made, the demands should be cancelled and fresh ones forwarded to the (S.)N.S.O. of the new station.

19. Owing to the composition of the kits as now constituted differing materially from those previously allowed, many of them will contain tools which are surplus to, or differ appreciably from, those now authorised. In such cases the following action is to be taken:—

- (a) *Air Mechanics (A) (E) (L) and (O) and equivalent W.R.N.S. personnel, and all R.A.F. personnel except those employed on W/T and R.D.F. Maintenance duties.*—All serviceable tools surplus to the scale now allowed which have been supplied from service sources are to be removed from the kit and taken on charge in the Main store by Form S.1091 raised by the mustering Officer.
- (b) *Radio Mechanics and personnel employed on W/T and R.D.F. Maintenance duties.*—The new type "F" kit which has been specially drawn up for W/T and R.D.F. work contains many items common to the type "D" kit previously issued for this work. Any of these common tools already held are to be retained; those not now shown in the "F" kit but which are held, having been previously issued as part of the "D" kit, are to be returned into main store, and only deficiencies of the tools authorised in the "F" kit are to be shown as shortages on Form S.138 in the pertinent pay books. These kits are to be shown on Forms S.138 as tool kits, type "F".

- (c) *Air Apprentices, Air Fitters, and Air Artificers.*—Tool kits issued to these ratings become, on issue, their own personal property and are maintained at their own expense—type "C" kits for apprentices excepted. Tools issued to them cannot, therefore, be withdrawn without (i) their consent and (ii) compensation. Tools which were previously issued from Service sources and which are held by such ratings surplus to the scale now authorised may either be retained by them or surrendered and taken on charge in the Naval Store Account, two-thirds of the full rate book value being paid by the Accountant Officer in respect of all fully serviceable tools so surrendered, as in paragraph 12.

Periodical Muster

20. To ensure that the tool kits used by naval aircraft maintenance personnel shall be held in as efficient a condition as practicable, they are to be mustered every six months, and, to ensure a complete muster being held, all kits should come under review during the months of March and September each year. This will avoid the necessity of keeping elaborate records to show when individual kits are due for muster. In addition, the kit should be mustered on each occasion of a rating joining a ship or establishment. No tool in an unserviceable condition is to be used or allowed to remain in the kit.

21. All deficiencies are to be made good forthwith from main store if possible, following the procedure detailed in paragraphs 14 and 15. The officer detailed by the commanding officer (see paragraph 26) is to arrange with the Accountant Officer for demands to be raised on the appropriate store depot or yard for tools deficient from kits of ratings joining the ship or establishment, where these are not available or already covered by outstanding demands in respect of ratings who have been drafted away.

22. To simplify supply and accounting, naval pattern numbers have now been assigned to every component tool, and all future requirements are to be demanded under the appropriate naval pattern number only. The Forms S.137 have accordingly been prepared to show only the naval pattern numbers. To enable existing stocks of individual tools held on charge under the R.A.F. reference numbers to be transferred to their revised designation, Appendix X, showing both the old and new R.A.F. or naval numbers, has been prepared, and all ledgers, stock record cards, etc., at R.N. store depots, R.N. air stations, H.M. ships, etc., are to be amended accordingly. Owing, however, to the shortage of hand tools of service pattern and the consequent necessity for obtaining supplies from commercial sources, many of the tools issued will not conform exactly to the authorised patterns although fulfilling the same functions. They are, therefore, to be accepted as suitable substitutes and referred to and accounted for as "like patt.....".

Lost, Damaged or Unserviceable Tools Replacement

23. To ensure that work is not interrupted on account of the lack of tools while the circumstances of deficiencies are made the subject of personal investigation by the Commanding Officer, forms of request for tools for personal tool kits, which will be numbered S.139, will be supplied on demand from the R.N. Store Depot, Park Royal, and are to be placed in a position easily accessible to all ratings, so that those wishing to replace tools from service sources may complete a form and pass it to their superior officer. The latter will insert his recommendation as to the method of replacement; the form is then to be taken to the main store for compliance, where it will be used as an issue voucher and dealt with by a similar procedure to that detailed in paragraphs 14 and 16.

24. If the items are available, supply will be made forthwith, the form being used to credit the naval store account. If a monetary charge is involved, Form S.126 or S.549 as appropriate is to be raised—see paragraph 16.

If only a proportion of the items required can be supplied immediately, those not available should be deleted from the form and transcribed by the supply rating on to the Forms S.138 in the pay book, care being taken that in respect of air apprentices, air fitters, and air artificers, the letter "C" indicating that the issue in replacement has to be charged against the individual, is inserted in Column 5. Any rating who has lost his kit is immediately to complete a Form S.139 and submit it to his superior officer for action as above. In the event of the lost kit being subsequently recovered, it is to be returned into the main store and taken on charge by the Accountant Officer (S), the appropriate refund being made to the original owner in respect of fully serviceable tools recovered, provided he has been charged for the cost of their replacement.

Change of Trade

25. Whenever the trade of any rating is changed, care is to be taken to ensure that his tool kit is adjusted to meet the new requirements. Should any rating be found at any time in possession of a tool kit not appropriate to his trade, it is, forthwith, to be exchanged or adjusted to the correct kit.

26. The efficient maintenance of aircraft will depend to a large extent upon the completeness or otherwise of personal tool kits, and, to ensure that the ramifications of this matter are co-ordinated, Commanding Officers should consider the desirability of detailing, within the complement, a suitable officer for this work.

27. A report should be forwarded through administrative authorities after six months' working, stating whether any improvements are recommended.

APPENDIX I

S.137A

Muster List and Issue Voucher

H.M.S.....		Kit "A"				
The tools in tool kit, type A, belonging to.....		Denomination	Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
..... rating						
O.N. have this day been mustered and all deficiencies noted in column 5.						
Signature of Mustering Officer. Date.						
Pattern No.	Description	Denomination	Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
1	2	3	4	5	6	7
B.11/7	Awl blades	No.	1			
D.4/1153	Bags, tool, canvas	No.	1			
B.11/3885	Bars, tommy, $\frac{5}{16}$ in. diam.	No.	1			
B.11/8000	Bars, tommy, $3\frac{1}{2}$ in. \times $\frac{3}{16}$ in.	No.	1			
	Boxes, tool :—					
E.4/3022	Medium, with lock and 2 keys	No.	1			
	Brushes :—					
E.11/C.289	Varnish, 1 in. flat	No.	1			
	Calipers :—					
B.11/3879	Spring, inside, 6 in.	Pairs	1			
B.11/3878	Spring, outside, 6 in.	Pairs	1			
B.11/1485	Chisels, chipping, 5 in. \times $\frac{5}{8}$ in. bit	No.	1			
B.11/8002	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, cross-cut.	No.	1			
B.11/8003	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, flat.	No.	1			
B.11/3884	Dividers, spring, 5 in.	Pairs	1			
B.11/8006	Drifts, copper, $6\frac{1}{2}$ in. \times $\frac{1}{2}$ in.	No.	1			
B.11/2A	Drills, hand, single pinion	No.	1			
	Files, cast steel :—					
B.11/330	Half-round, taper, smooth, 8 in.	No.	1			
B.11/320E	Half-round, taper, second cut, 10 in.	No.	1			
B.11/394F	Hand, second cut, safe edge, 10 in.	No.	1			
B.11/400	Hand, smooth, safe edge, 6 in.	No.	1			
B.11/78	Round, taper, bastard, 8 in.	No.	1			
B.11/8008	Round, taper, smooth, 6 in.	No.	1			
B.11/26A	Three-square taper, smooth, 6 in.	No.	1			
B.11/8009	Warding, cut one side, 4 in.	No.	1			
B.11/120	File cleaners	No.	1			
B.11/8010	Gauges, feeler, 4 in. blades, tapered, $1\frac{1}{2}$ to 15 thou.	No.	1			

APPENDIX I.—contd.

H.M.S.....		Kit "A"				
The tools in tool kit, type A, belonging to.....		Denomination	Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
..... rating						
O.N. have this day been mustered and all deficiencies noted in column 5.						
Signature of Mustering Officer. Date.						
Pattern No.	Description	Denomination	Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
1	2	3	4	5	6	7
	Hammers, handled :—					
B.11/C613	Fitters', ball pane, 12 oz.	No.	1			
B.11/8011	Hide-faced, 1 lb.	No.	1			
B.11/8012	Pin, ball pane, 4 oz.	No.	1			
E.12/765	Handles, ash or hickory, for files (large)	No.	2			
E.12/763	Handles, ash or hickory, for files (medium)	No.	2			
B.10/83	Locks, pad, $1\frac{1}{2}$ in.	No.	1			
B.11/8016	Nippers, diagonal cutting, 5 in.	Pairs	1			
	Pliers :—					
B.11/467	Bellhangers', 6 in.	Pairs	1			
B.11/8017	Long, snipe nosed, 8 in.	Pairs	1			
B.11/8049	Prickers (ice picks), 6 in. \times $\frac{1}{4}$ in. blade, handled.	No.	1			
	Punches :—					
B.11/8018	Centre, 4 in. \times $\frac{5}{16}$ in.	No.	1			
B.11/8019	Nail or pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8022	Nail or pin, $\frac{3}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8023	Parallel pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in.	No.	1			
B.11/8026	Rules, engineers', steel, 6 in., stainless	No.	1			
B.11/8027	Rules, engineers', steel, 12 in., stainless	No.	1			
B.11/4314	Saws, frame, hack, adg. Eclipse, 8 in.—12 in.	No.	1			
	Screwdrivers :—					
B.11/666	Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.	No.	1			
B.11/8031	Watchmakers', 3 in. \times $\frac{3}{16}$ in. blade	No.	1			
B.11/8032	Scribers, fitters', 7 in.	No.	1			
	Spanners :—					
B.11/8033	Adjusting, steel, King Dick, 6 in.	No.	1			
B.11/8035	Box, D/E, 0 B.A. \times 2 B.A., 4 in. long	No.	1			
B.11/8036	Box, D/E, 4 B.A. \times 6 B.A., 4 in. long	No.	1			
B.11/8037	Box, D/E, 0 B.A. \times 2 B.A., 9 in. long	No.	1			
B.11/8038	Box, D/E, 4 B.A. \times 6 B.A., 9 in. long	No.	1			
B.11/8040	Folding, 0 B.A. to 8 B.A.	Set	2			
B.11/3651	D/E, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in. Whit. 30° angle between head and shank.	No.	1			
B.11/8041	D/E, $\frac{3}{8}$ in. \times $\frac{5}{16}$ in. Whit.	No.	1			
B.11/8042	D/E, $\frac{3}{8}$ in. \times $\frac{1}{8}$ in., Whit.	No.	1			
B.11/8043	D/E, $\frac{3}{8}$ in. \times $\frac{1}{4}$ in., Whit.	No.	1			
B.11/3861	Tubular box, $\frac{1}{8}$ in. \times $\frac{3}{16}$ in., Whit.	No.	1			
B.11/3862	Tubular box, $\frac{1}{4}$ in. \times $\frac{1}{16}$ in., Whit.	No.	1			
B.11/3863	Tubular box, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in.	No.	1			
B.11/8046	Tubular box, $\frac{1}{2}$ in. \times $\frac{3}{8}$ in.	No.	1			
B.11/4254	Squares, steel, 4 in. stock, 6 in. blade	No.	1			
B.11/C518	Vices, hand, length overall $4\frac{1}{2}$ in.	No.	1			

Notes.—(a) "L" = Lost; "U/S" = Unserviceable; "N.P.I." = Not previously issued. (b) "C" indicates item is to be charged for on replacement; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date)

APPENDIX II

S.137.B.

Muster List and Issue Voucher

H.M.S.		Denomination	Kit "B"			
The tools in tool kit, type B, belonging to.....			Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
O.N. have this day been mustered and all deficiencies noted in column 5.						
Signature of Mustering Officer. Date.						
Pattern No.	Description					
1	2	3	4	5	6	7
B.11/7	Awl blades	No.	1			
D.4/1153	Bags, tool, canvas	No.	1			
B.11/3885	Bars, tommy, $\frac{1}{8}$ in. diam.	No.	1			
B.11/8000	Bars, tommy, $3\frac{1}{2}$ in. \times $\frac{3}{16}$ in.	No.	1			
	Boxes, tool :—					
E.4/3023	Small, with lock and 2 keys	No.	1			
	Brushes :—					
E.11/C289	Varnish, 1 in. flat	No.	1			
B.11/1485	Chisels, chipping, 5 in. \times $\frac{5}{8}$ in. bit	No.	1			
B.11/8002	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, cross cut.	No.	1			
B.11/8003	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, flat.	No.	1			
B.11/3884	Dividers, spring, 5 in.	Pairs.	1			
B.11/2A	Drills, hand, single pinion	No.	1			
	Files, cast steel :—					
B.11/330	Half-round, taper, smooth, 8 in.	No.	1			
B.11/320E	Half-round, taper, second cut, 10 in.	No.	1			
B.11/394F	Hand, second cut, safe edge, 10 in.	No.	1			
B.11/400	Hand, smooth, safe edge, 6 in.	No.	1			
B.11/78	Round, taper, bastard, 8 in.	No.	1			
B.11/8008	Round, taper, smooth, 6 in.	No.	1			
B.11/26A	Three square, taper, smooth, 6 in.	No.	1			
B.11/120	File cleaners	No.	1			
	Hammers, handle :—					
B.11/C613	Fitters', ball pane, 12 oz.	No.	1			
B.11/8011	Hide faced, 1 lb.	No.	1			
B.11/8013	Pin, crosspane, 4 oz.	No.	1			
E.12/765	Handles, ash or hickory, for files (large)... ..	No.	2			
E.12/763	Handles, ash or hickory, for files (medium)	No.	2			
B.11/84	Handles for awls	No.	1			
B.11/8016	Nippers, diagonal cutting, 5 in.	Pairs	1			
	Pliers :—					
B.11/467	Bellhangers', 6 in.	Pairs	1			
B.11/8048	Snipe nosed, 6 in.	Pairs	1			
B.11/8049	Prickers (Ice Picks), 6 in. \times $\frac{1}{4}$ in. blade, handled.	No.	1			
	Punches :—					
B.11/8018	Centre, 4 in. \times $\frac{5}{16}$ in.	No.	1			
B.11/8020	Nail or pin, $\frac{3}{32}$ in. \times 4 in. \times $\frac{5}{16}$ in. tapered.	No.	1			
B.11/8022	Nail or pin, $\frac{3}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8023	Parallel pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in.	No.	1			

APPENDIX II—contd.

H.M.S.		Denomination	Kit "B"			
The tools in tool kit, type B, belonging to.....			Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
O.N. have this day been mustered and all deficiencies noted in column 5.						
Signature of Mustering Officer. Date.						
Pattern No.	Description					
1	2	3	4	5	6	7
B.11/8026	Rules, engineers', steel, 6 in., stainless ...	No.	1			
B.11/8027	Rules, engineers', steel, 12 in., stainless	No.	1			
	Screwdrivers :—					
B.11/666	Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.	No.	1			
B.11/8030	Ratchet, 5 in. blade	No.	1			
B.11/8031	Watchmakers', 3 in. \times $\frac{3}{16}$ in. blade	No.	1			
B.11/8032	Scribers, fitters', 7 in.	No.	1			
	Spanners :—					
B.11/8033	Adj. steel, King Dick, 6 in.	No.	1			
B.11/8035	Box, D/E, 0 B.A. \times 2 B.A., 4 in. long	No.	1			
B.11/8036	Box, D/E, 4 B.A. \times 6 B.A., 4 in. long	No.	1			
B.11/8037	Box, D/E, 0 B.A. \times 2 B.A., 9 in. long	No.	1			
B.11/8038	Box, D/E, 4 B.A. \times 6 B.A., 9 in. long	No.	1			
B.11/8040	Folding, 0 B.A. to 8 B.A.	Set	2			
B.11/8041	D/E, $\frac{3}{8}$ in. \times $\frac{5}{16}$ in., Whit.	No.	1			
B.11/8042	D/E, $\frac{1}{8}$ in. \times $\frac{1}{8}$ in., Whit.	No.	1			
B.11/8043	D/E, $\frac{3}{16}$ in. \times $\frac{1}{4}$ in., Whit.	No.	1			
B.11/3861	Tubular box, $\frac{1}{2}$ in. \times $\frac{3}{16}$ in., Whit.	No.	1			
B.11/3862	Tubular box, $\frac{1}{4}$ in. \times $\frac{5}{16}$ in., Whit.	No.	1			
B.11/3863	Tubular box, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in., Whit.	No.	1			
B.11/C518	Vices, hand, length overall $4\frac{1}{2}$ in.	No.	1			

Notes.—(a) "L" = Lost; "U/S" = Unserviceable; "N.P.I." = Not previously issued. (b) "C" indicates item is to be charged for on replacement; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date).....

APPENDIX III

S.137C.

Muster List and Issue Voucher

H.M.S..... The tools in tool kit, type C, belonging to..... O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.		Denomination	Kit "C"			
Pattern No.	Description		Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
1	2	3	4	5	6	7
B.11/7	Awl blades	No.	1			
D.4/1153	Bags, tool, canvas	No.	1			
B.11/3885	Bars, tommy, $\frac{3}{8}$ in. diameter	No.	1			
B.11/8000	Bars, tommy, $3\frac{1}{2}$ in. \times $\frac{3}{16}$ in.	No.	1			
B.4/3023	Boxes, tools :— Small, with lock and 2 keys	No.	1			
E.11/C302	Brushes :— Engine cleaning	No.	1			
E.11/C289	Varnish, 1 in. flat	No.	1			
B.11/3879	Calipers :— Spring, inside, 6 in.	Pairs	1			
B.11/3878	Spring, outside, 6 in.	Pairs	1			
B.11/8002	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, cross cut.	No.	1			
B.11/8003	Chisels, chipping, 4 in. \times $\frac{3}{8}$ in. diameter, flat.	No.	1			
B.11/3884	Dividers, spring, 5 in.	Pairs	1			
B.11/330	Files, cast steel :— Half-round taper, smooth, 8 in.	No.	1			
B.11/320E	Half-round taper, second cut, 10 in.	No.	1			
B.11/394F	Hand, second cut, safe edge, 10 in.	No.	1			
B.11/400	Hand, smooth, safe edge, 6 in.	No.	1			
B.11/78	Round, taper, bastard, 8 in.	No.	1			
B.11/8008	Round, taper, smooth, 6 in.	No.	1			
B.11/26A	Three square taper, smooth, 6 in.	No.	1			
B.11/8009	Warding, cut one side, 4 in.	No.	1			
B.11/120	File cleaners	No.	1			
B.11/8010	Gauges, feeler, 4 in. blades, tapered, $1\frac{1}{2}$ to 15 thou.	No.	1			
B.11/C613	Hammers, handled :— Fitters', ball pane, 12-oz.	No.	1			
B.11/8011	Hide-faced, 1 lb.	No.	1			
B.11/8012	Pin, ball pane, 4 oz.	No.	1			
E.12/765	Handles, ash or hickory, for files (large)	No.	2			
E.12/763	Handles, ash or hickory, for files (medium)	No.	2			
B.11/8016	Nippers, diagonal cutting, 5 in.	Pairs	1			
B.11/467	Pliers :— Bellhangers', 6 in.	Pairs	1			
B.11/8017	Long, snipe-nosed, 8 in.	Pairs	1			
B.11/8018	Punches :— Centre, 4 in. \times $\frac{5}{16}$ in.	No.	1			
B.11/8019	Nail or pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8022	Nail or pin, $\frac{3}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8023	Parallel pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in.	No.	1			

APPENDIX III—contd.

H.M.S..... The tools in tool kit, type C, belonging to..... O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.		Denomination	Kit "C"			
Pattern No.	Description		Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
1	2	3	4	5	6	7
B.11/8026	Rules, engineers', steel, 6 in., stainless ...	No.	1			
B.11/8027	Rules, engineers', steel, 12 in., stainless... Screwdrivers :—	No.	1			
B.11/666	Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.	No.	1			
B.11/8031	Watchmakers', 3 in. \times $\frac{3}{16}$ in. blade ...	No.	1			
B.11/8032	Scribers, fitters', 7 in. Spanners :—	No.	1			
B.11/8033	Adjustable, steel, King Dick, 6 in. ...	No.	1			
B.11/8035	Box, D/E, 0 B.A. \times 2 B.A., 4 in. long	No.	1			
B.11/8036	Box, D/E, 4 B.A. \times 6 B.A., 4 in. long	No.	1			
B.11/8037	Box, D/E, 0 B.A. \times 2 B.A., 9 in. long	No.	1			
B.11/8038	Box, D/E, 4 B.A. \times 6 B.A., 9 in. long	No.	1			
B.11/8040	Folding, 0 B.A. to 8 B.A.	Set	2			
B.11/3651	D/E, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in., Whit. 30° angle between head and shank.	No.	1			
B.11/8041	D/E, $\frac{3}{8}$ in. \times $\frac{5}{16}$ in., Whit.	No.	1			
B.11/8042	D/E, $\frac{3}{16}$ in. \times $\frac{1}{8}$ in., Whit.	No.	1			
B.11/8043	D/E, $\frac{3}{16}$ in. \times $\frac{1}{4}$ in., Whit.	No.	1			
B.11/8044	D/E, 3 B.A. \times 5 B.A.	No.	1			
B.11/3861	Tubular box, $\frac{1}{8}$ in. \times $\frac{3}{16}$ in., Whit.	No.	1			
B.11/3862	Tubular box, $\frac{1}{4}$ in. \times $\frac{5}{16}$ in., Whit.	No.	1			
B.11/3863	Tubular box, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in., Whit.	No.	1			
B.11/8046	Tubular box, $\frac{1}{2}$ in. \times $\frac{5}{8}$ in.	No.	1			

Notes.—(a) "L" = Lost ; "U/S" = Unserviceable ; "N.P.I." = Not previously issued. (b) "C" indicates item is to be charged for on replacement ; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date).....

APPENDIX IV

S.137D

Muster List and Issue Voucher

H.M.S. The tools in tool kit, type D, belonging to..... rating		Denomination	Kit "D"				
O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.			Allowed	Deficient	(a)		(b)
Pattern No.	Description				"L", "U/S" or "N.P.I."	"C" or "F"	
1	2	3	4	5	6	7	
B.11/7	Awl blades	No.	1				
D.4/1153	Bags, tool, canvas	No.	1				
B.11/8000	Bars, tommy, 3½ in. × ⅜ in.	No.	1				
	Boxes, tool :—						
E.4/3023	Small, with lock and 2 keys	No.	1				
	Brushes :—						
E.11/C.289	Varnish, 1 in. flat	No.	1				
B.11/1485	Chisels, chipping, 5 in. × ⅝ in. bit	No.	1				
B.11/8004	Cleaners, contact	No.	1				
B.11/3884	Dividers, spring, 5 in.	Pairs	1				
B.11/2A	Drills, hand, single pinion	No.	1				
	Files, cast steel :—						
B.11/8007	Equalling, contact breaker	No.	2				
B.11/312	Half-round taper, bastard, 8 in.	No.	1				
B.11/328	Half-round taper, smooth, 6 in.	No.	1				
B.11/382	Hand, bastard, safe edge, 6 in.	No.	1				
B.11/400	Hand, smooth, safe edge, 6 in.	No.	1				
B.11/78	Round, taper, bastard, 8 in.	No.	1				
B.11/8008	Round, taper, smooth, 6 in.	No.	1				
B.11/26A	Three-square taper, smooth, 6 in.	No.	1				
B.11/120	File cleaners	No.	1				
B.11/8010	Gauges, feeler, 4 in. blades, tapered, 1½ in. to 15 thousand.	No.	1				
	Hammers, handled :—						
B.11/C612	Fitters' ball pane, 8 oz.	No.	1				
B.11/8012	Pin, ball pane, 4 oz.	No.	1				
E.12/765	Handles, ash or hickory, for files (large)	No.	2				
E.12/763	Handles, ash or hickory, for files (medium)	No.	2				
B.11/84	Handles for awls	No.	1				
B.11/8015	Knife, flex cleaning, pocket, 3½ in.	No.	1				
B.11/8016	Nippers, diagonal cutting, 5 in.	Pairs	1				
	Pliers :—						
B.11/1398	Electricians', 7 in., insulated handle	Pairs	1				
B.11/8048	Snipe nosed, 6 in.	Pairs	1				
B.11/986	Round nosed, 6 in.	Pairs	1				
	Punches :—						
B.11/8018	Centre, 4 in. × ⅝ in.	No.	1				
B.11/8019	Nail or pin, ⅜ in. × 4 in. × ⅝ in., tapered.	No.	1				
B.11/8022	Nail or pin, ⅜ in. × 4 in. × ⅝ in., tapered.	No.	1				
B.11/8023	Parallel pin, ⅜ in. × 4 in. × ⅝ in.	No.	1				
B.11/8026	Rules, engineers', steel, 6 in., stainless	No.	1				
B.11/8027	Rules, engineers', steel, 12 in., stainless	No.	1				
	Screwdrivers :—						
B.11/666	Heavy, 6 in. blade, ½ in. bit, oval, beech handle.	No.	1				
B.11/8031	Watchmakers', 3 in. × ⅜ in. blade	No.	1				

APPENDIX IV—contd.

H.M.S. The tools in tool kit, type D, belonging to..... rating		Denomination	Kit "D"			
O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.			Allowed	Deficient	(a)	(b)
Pattern No.	Description				"L", "U/S" or "N.P.I."	"C" or "F"
1	2	3	4	5	6	7
B.11/693	Turnscrews, 9½ in. × ⅜ in. blade, with oval handle.	No.	1			
	Spanners :—					
B.11/8034	Adjustable, steel, open end type, 4 in.	No.	1			
B.11/8035	Box, D/E, 0 B.A. × 2 B.A., 4 in. long	No.	1			
B.11/8036	Box, D/E, 4 B.A. × 6 B.A., 4 in. long	No.	1			
B.11/8037	Box, D/E, 0 B.A. × 2 B.A., 9 in. long	No.	1			
B.11/8038	Box, D/E, 4 B.A. × 6 B.A., 9 in. long	No.	1			
B.11/8040	Folding, 0 B.A. to 8 B.A.	Set	2			
B.11/8043	D/E, ⅜ in. × ¼ in., Whit.	No.	1			
B.11/3861	Tubular box, ⅜ in. × ⅜ in., Whit.	No.	1			
B.11/8047	Tweezers, fine round point, 6 in.	Pairs	1			

Notes.—(a) "L" = Lost; "U/S" = Unserviceable; "N.P.I." = Not previously issued. (b) "C" indicates item is to be charged for on replacement; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date).....

APPENDIX V

S.137.E.

Muster List and Issue Voucher

H.M.S..... The tools in tool kit, type E, belonging to..... rating		Denomination	Kit "E"			
O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.			Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
Pattern No.	Description	3	4	5	6	7
1	2	3	4	5	6	7
D.4/1153	Bags, tool, canvas	No.	1			
	Boxes, tool :—					
E.4/3023	Small, with lock and 2 keys	No.	1			
B.10/21	Cans, oil, force feed, $\frac{1}{2}$ pint	No.	1			
B.11/8005	Drifts, copper, $6\frac{1}{2}$ in. \times $\frac{1}{4}$ in.	No.	1			
	Hammers, handled :—					
B.11/C612	Fitters, ball pane, 8 oz.	No.	1			
B.11/8011	Hide faced, 1 lb.	No.	1			
	Pliers :—					
B.11/467	Bellhangers', 6 in.	Pairs	1			
	Punches :—					
B.11/8021	Nail or pin, $\frac{1}{2}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered	No.	1			
B.11/8024	Parallel pin, $\frac{3}{32}$ in. \times 4 in. \times $\frac{5}{16}$ in. ...	No.	1			
B.11/8025	Parallel pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in. ...	No.	1			
	Screwdrivers :—					
B.11/666	Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.	No.	1			
B.11/8031	Watchmakers', 3 in. \times $\frac{3}{16}$ in. blade ...	No.	1			
B.11/693	Turnscrews, $9\frac{1}{2}$ in. \times $\frac{3}{16}$ in. blade, with oval handle.	No.	1			
	Spanners :—					
B.11/3606	Adjustable steel, King Dick, 4 in. ...	No.	1			
B.11/8040	Folding, 0 B.A. to 8 B.A.	Set	2			
B.11/3651	D/E, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in., Whit., 30° angle between head and shank.	No.	1			
B.11/8041	D/E, $\frac{3}{8}$ in. \times $\frac{5}{16}$ in., Whit.	No.	1			
B.11/8042	D/E, $\frac{3}{8}$ in. \times $\frac{1}{2}$ in., Whit.	No.	1			
B.11/8043	D/E, $\frac{3}{8}$ in. \times $\frac{1}{4}$ in., Whit.	No.	1			

Notes.—(a) "L" = Lost; "U/S" = Unserviceable; "N.P.I." = not previously issued. (b) "C" indicates item is to be charged for on replacement; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date).....

APPENDIX VI

S.137.F.

Muster List and Issue Voucher

H.M.S..... The tools in tool kit, type F, belonging to..... rating		Denomination	Kit "F"			
O.N. have this day been mustered and all deficiencies noted in column 5. Signature of Mustering Officer. Date.			Allowed	Deficient	(a) "L", "U/S" or "N.P.I."	(b) "C" or "F"
Pattern No.	Description	3	4	5	6	7
1	2	3	4	5	6	7
B.11/7	Awl blades	No.	1			
D.4/1153	Bags, tool, canvas	No.	1			
B.11/8001	Bars, tommy, 7 \times 8 B.A. spanners ...	No.	1			
	Boxes, tool :—					
E.4/3023	Small, with lock and 2 keys	No.	1			
	Brushes :—					
E.11/C345	Lacquer, squirrel, $\frac{1}{2}$ in.	No.	1			
E.11/C289	Varnish, 1 in. flat	No.	1			
B.11/8004	Cleaners, contact	No.	1			
B.11/3884	Dividers, spring, 5 in.	Pairs	1			
B.11/2A	Drills, hand, single pinion	No.	1			
	Files, cast steel :—					
B.11/8007	Equalling, contact breaker	No.	2			
B.11/328	Half-round taper, smooth, 6 in. ...	No.	1			
B.11/382	Hand, bastard, safe edge, 6 in. ...	No.	1			
B.11/400	Hand, smooth, safe edge, 6 in. ...	No.	1			
B.11/8008	Round, taper, smooth, 6 in.	No.	1			
B.11/26A	Three square taper, smooth, 6 in. ...	No.	1			
	Hammers, handled :—					
B.11/8012	Pin, ball, pane, 4 oz.	No.	1			
B.11/8014	Watchmakers', 2 oz.	No.	1			
E.12/763	Handles, ash or hickory, for files (medium)	No.	2			
B.11/84	Handles, for awls	No.	1			
B.11/8015	Knife, flex cleaning, pocket, $3\frac{1}{2}$ in. ...	No.	1			
B.11/8016	Nippers, diagonal cutting, 5 in. ...	Pairs	1			
	Pliers :—					
B.11/1398	Electricians, 7 in. insulated handle ...	Pairs	1			
B.11/8048	Snipe nosed, 6 in.	Pairs	1			
B.11/986	Round nosed, 6 in.	Pairs	1			
	Punches :—					
B.11/8018	Centre, 4 in. \times $\frac{5}{16}$ in.	No.	1			
B.11/8019	Nail or pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8021	Nail or pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in., tapered.	No.	1			
B.11/8025	Parallel pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in. ...	No.	1			
B.11/8026	Rules, engineers' steel, 6 in., stainless ...	No.	1			
B.11/8027	Rules, engineers' steel, 12 in., stainless ...	No.	1			
	Screwdrivers :—					
B.11/666	Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.	No.	1			
B.11/8028	Instrument makers' (set of 4)	No.	1			
B.11/8028A	Boxes for	No.	1			
B.11/8029	Instrument No. 1, $2\frac{1}{2}$ in. \times $\frac{1}{2}$ in. blade ...	No.	1			
B.11/693	Turnscrews, $9\frac{1}{2}$ in. \times $\frac{3}{16}$ in. blade, with oval handle.	No.	1			
	Spanners :—					
B.11/8034	Adjustable steel, open end, type 4 in. ...	No.	1			

APPENDIX VI—contd.

H.M.S. The tools in tool kit, type F, belonging to..... rating		Denomination	Kit " F "				
O.N. have this day been mustered and all deficiencies noted in column 5.			Allowed	Deficient	(a)		(b)
Signature of Mustering Officer. Date.					"L", "U/S" or "N.P.I."	"C" or "F"	
Pattern No.	Description	3	4	5	6	7	
1	2	3	4	5	6	7	
B.11/8035	Box, D/E, 0 B.A. × 2 B.A., 4 in. long ...	No.	1				
B.11/8036	Box, D/E, 4 B.A. × 6 B.A., 4 in. long ...	No.	1				
B.11/8037	Box, D/E, 0 B.A. × 2 B.A., 9 in. long ...	No.	1				
B.11/8038	Box, D/E, 4 B.A. × 6 B.A., 9 in. long ...	No.	1				
B.11/8039	Box, D/E, 7 B.A. × 8 B.A., 3 in. long ...	No.	1				
B.11/8040	Folding, 0 B.A. to 8 B.A. ...	Set	2				
B.11/8045	D/E 6 B.A. × 8 B.A. ...	No.	1				
B.11/3861	Tubular box, $\frac{1}{8}$ in. × $\frac{3}{16}$ in., Whit. ...	No.	1				
B.11/8047	Tweezers, fine round point, 6 in. ...	Pairs	1				

Notes.—(a) "L" = Lost; "U/S" = Unserviceable; "N.P.I." = Not previously issued. (b) "C" indicates item is to be charged for on replacement; "F" indicates free issue.

Received the tools indicated in column 5.

(Signature)..... (rating)..... (date).....

APPENDIX VII

S.137G

Muster List and Issue Voucher

H.M.S. The tools in tool kit, type G, belonging to..... rating		Denomination	Kit " G "				
O.N. have this day been mustered and all deficiencies noted in column 5.			Allowed	Deficient	(a)		(b)
Signature of Mustering Officer. Date.					"L", "U/S" or "N.P.I."	"C" or "F"	
Pattern No.	Description	3	4	5	6	7	
1	2	3	4	5	6	7	
B.11/7	Awl blades ...	No.	1				
D.4/1153	Bags, tool, canvas ...	No.	1				
B.11/3885	Bars, tommy, $\frac{5}{16}$ in. diameter ...	No.	1				
B.11/8000	Bars, tommy, $3\frac{1}{2}$ in. × $\frac{3}{16}$ in. ...	No.	1				
	Boxes, tool :—						
E.4/3023	Small, with lock and 2 keys ...	No.	1				
	Brushes :—						
E.11/C.289	Varnish, 1 in. flat ...	No.	1				
	Calipers :—						
B.11/3879	Spring, inside, 6 in. ...	Pairs	1				
B.11/3878	Spring, outside, 6 in. ...	Pairs	1				
B.11/1485	Chisels, chipping, 5 in. × $\frac{5}{16}$ in. bit ...	No.	1				
B.11/8002	Chisels, chipping, 4 in. × $\frac{3}{8}$ in. diameter, cross-cut.	No.	1				
B.11/8003	Chisels, chipping, 4 in. × $\frac{3}{8}$ in. diameter, flat.	No.	1				
B.11/8004	Cleaners, contact ...	No.	1				
B.11/3884	Dividers, spring, 5 in. ...	Pairs	1				
B.11/2A	Drills, hand, single pinion ...	No.	1				
	Files, cast steel :—						
B.11/8007	Equalling, contact breaker ...	No.	2				
B.11/312	Half-round taper, bastard, 8 in. ...	No.	1				
B.11/330	Half-round taper, smooth, 8 in. ...	No.	1				
B.11/382	Hand, bastard, safe edge, 6 in. ...	No.	1				
B.11/394F	Hand, second cut, safe edge, 10 in. ...	No.	1				
B.11/400	Hand, smooth, safe edge, 6 in. ...	No.	1				
B.11/78	Round, taper, bastard, 8 in. ...	No.	1				
B.11/8008	Round, taper, smooth, 6 in. ...	No.	1				
B.11/26A	Three-square taper, smooth, 6 in. ...	No.	1				
B.11/8009	Warding, cut one side, 4 in. ...	No.	1				
B.11/120	File cleaners ...	No.	1				
B.11/8010	Gauges, feeler, 4 in. blades, tapered, $1\frac{1}{2}$ in. to 15 thousand.	No.	1				
	Hammers, handled :—						
B.11/C612	Fitters', ball pane, 8 oz. ...	No.	1				
B.11/C613	Fitters', ball pane, 12 oz. ...	No.	1				
B.11/8011	Hide-faced, 1 lb. ...	No.	1				
B.11/8012	Pin, ball pane, 4 oz. ...	No.	1				
B.11/8014	Watchmakers', 2 oz. ...	No.	1				
E.12/765	Handles, ash or hickory, for files (large)...	No.	2				
E.12/763	Handles, ash or hickory, for files (medium)	No.	2				
B.11/84	Handles for awls ...	No.	1				
B.11/8015	Knife, flex cleaning, pocket, $3\frac{1}{2}$ in. ...	No.	1				
B.11/8016	Nippers, diagonal cutting, 5 in. ...	Pairs	1				
	Pliers :—						
B.11/1398	Electricians', 7 in., insulated handle ...	Pairs	1				
B.11/8048	Snipe nosed, 6 in. ...	Pairs	1				
B.11/986	Round nosed, 6 in. ...	Pairs	1				

APPENDIX IX

S.139 (Established October, 1942)

Request for Tools for Personal Tool Kits

I request that I may be supplied with the undermentioned tools, authorised under B.R. 378, Appendix II, to be held in my kit, type..... The reason for this request is stated in column 5. The circumstances of the loss or damage are as follows :—

Patt.	Description	Quantity		(a)	(b)
		Reqd.	Issued	L U/S N.P.I.	C or F.
				Signature
				Rating
				O.N.
					<i>Remarks of Squadron-Commander or Sectional Officer</i>
					Supply of the items listed is recommended as indicated in Column 6.
				Signature
				Rank
				Date
					(Note.—All issues to Artificers, Fitters and Apprentices, except those against N.P.I. requirements, are on repayment.)

(a) L = Lost. U/S = Unserviceable.
N.P.I. = Not previously issued.

(b) C indicates shortage has to be charged for.
F indicates replacement is a free issue.

Received the tools detailed in Column 4.

.....Signature
.....Date

APPENDIX X

Detailed Description of Tools included in Personal Kits of Aircraft Maintenance Ratings—giving Naval Pattern Numbers and Equivalent R.A.F. Reference Numbers

R.A.F. Reference No.	Naval Pattern No.	Description
1A/3872	B.11/7	Awl blades.
N.I.V.	D.4/1153	Bags, tool, canvas.
1A/31	B.11/3885	Bars, tommy, $\frac{3}{16}$ in. diameter.
1A/3864	B.11/8000	Bars, tommy, $\frac{3}{16}$ in. \times $3\frac{1}{2}$ in.
N.I.V.	B.11/8001	Bars, tommy, $\frac{3}{8}$ in., for 7 \times 8 B.A. spanners.
like 1A/3826	E.4/3022	Boxes, tool :— Medium, with lock and 2 keys.
like 1A/3717	E.4/3023	Small, with lock and 2 keys.
		Brushes :—
1A/2693	E.11/C302	Engine cleaning.
1A/241	E.11/C345	Lacquer, squirrel, $\frac{1}{2}$ in.
1A/291	E.11/C289	Varnish, 1 in. flat.
		Calipers :—
N.I.V.	B.11/3879	Spring, inside, 6 in.
N.I.V.	B.11/3878	Spring, outside, 6 in.
N.I.V.	B.10/21	Cans, oil, force feed, $\frac{1}{2}$ pint.
like 1A/440	B.11/1485	Chisels, chipping, flat 5 in. \times $\frac{5}{8}$ in. bit.
1A/3828	B.11/8002	Chisels, chipping, cross-cut, 4 in. \times $\frac{3}{8}$ in. diameter.
1A/3830	B.11/8003	Chisels, chipping, flat, 4 in. \times $\frac{3}{8}$ in. diameter.
1A/3587	B.11/8004	Cleaners, contact.
like 1A/621	B.11/3884	Dividers, spring, 5 in.
1A/633	B.11/8005	Drifts, copper, $6\frac{1}{2}$ in. \times $\frac{1}{4}$ in.
1A/634	B.11/8006	Drifts, copper, $6\frac{1}{2}$ in. \times $\frac{1}{2}$ in.
1C/2407	B.11/2A	Drills, hand, single pinion.
		Files, cast steel :—
1A/3861	B.11/8007	Equalling, contact breaker.
1A/902	B.11/312	Half-round taper, bastard, 8 in.
1A/1117	B.11/328	Half-round taper, smooth, 6 in.
1A/1118	B.11/330	Half-round taper, smooth, 8 in.
1A/1052	B.11/320E	Half-round taper, second cut, 10 in.
1A/908	B.11/382	Hand, bastard, safe edge, 6 in.
1A/1061	B.11/394F	Hand, second cut, safe edge, 10 in.
1A/1124	B.11/400	Hand, smooth, safe edge, 6 in.
1A/923	B.11/78	Round, taper, bastard, 8 in.
1A/1140	B.11/8008	Round, taper, smooth, 6 in.
1A/1157	B.11/26A	Three square, taper, smooth, 6 in.
like 1A/1164	B.11/8009	Warding, cut one side, 4 in.
1A/2738	B.11/120	File cleaners.
like 1B/4110	B.11/8010	Gauges, feeler, 4 in. blades, tapered, $1\frac{1}{2}$ to 15 thou.
		Hammers, handled :—
1B/1327	B.11/C612	Fitters', ball pane, 8 oz.
1B/1328	B.11/C613	Fitters', ball pane, 12 oz.
1B/1340	B.11/8011	Hide-faced, 1 lb.
N.I.V.	B.11/8012	Pin, ball pane, 4 oz.
N.I.V.	B.11/8013	Pin, crosspane, 4 oz.
1B/1391	B.11/8014	Watchmakers, 2 oz.
1B/1394	E.12/765	Handles, ash or hickory, for files (large).
1B/1396	E.12/763	Handles, ash or hickory, for files (medium).
1A/21	B.11/84	Handles for awls.
N.I.V.	B.11/8015	Knife, flex cleaning, pocket, $3\frac{1}{2}$ in.
like 29/1277	B.10/83	Locks, pad, $1\frac{1}{2}$ in.
1B/4406	B.11/8016	Nippers, diagonal cutting, 5 in.

APPENDIX X—*contd.*

R.A.F. Reference No.	Naval Pattern No.	Description
		Pliers :—
		Bellhangers', 6 in.
like 1B/1805	B.11/467	Electricians', 7 in., insulated handle.
like 1B/1773	B.11/1398	Long, snipe-nosed, 8 in.
N.I.V.	B.11/8017	Snipe-nosed, 6 in.
N.I.V.	B.11/8048	Round-nosed, 6 in.
1B/1798	B.11/986	Pickers (ice picks), 6 in. \times $\frac{1}{4}$ in. blade, handled.
1B/1707	B.11/8049	
		Punches :—
		Centre, 4 in. \times $\frac{5}{16}$ in.
1B/1821	B.11/8018	Nail or pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter, tapered.
1B/1839	B.11/8019	Nail or pin, $\frac{3}{32}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter, tapered.
1B/2977	B.11/8020	Nail or pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter, tapered.
1B/1834	B.11/8021	Nail or pin, $\frac{3}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter tapered.
1B/1835	B.11/8022	Parallel pin, $\frac{1}{8}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter.
N.I.V.	B.11/8023	Parallel pin, $\frac{3}{32}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter.
N.I.V.	B.11/8024	Parallel pin, $\frac{1}{16}$ in. \times 4 in. \times $\frac{5}{16}$ in. diameter.
like 1E/3616	B.11/8025	Rules, engineers', steel, 6 in., stainless.
like 1B/2124	B.11/8026	Rules, engineers', steel, 12 in., stainless.
like 1B/2125	B.11/8027	Saws, frame, hack, adjustable, Eclipse, 8 in.—12 in.
1C/2141	B.11/4314	Screwdrivers :—
		Heavy, 6 in. blade, $\frac{1}{2}$ in. bit, oval beech handle.
like 1C/2163	B.11/666	Instrument makers' (set of 4).
1C/3190	B.11/8028	Boxes for.
1C/5322	B.11/8028A	Instrument No. 1, 2 $\frac{1}{2}$ in. blade, $\frac{1}{8}$ in. bit.
1H/12	B.11/8029	Ratchet, 5 in. blade.
1C/2175	B.11/8030	Watchmakers', 3 in. blade, $\frac{3}{16}$ in. bit.
1C/2176	B.11/8031	Turnscrews, 9 $\frac{1}{2}$ in. blade, $\frac{3}{16}$ in. bit, with oval handle.
like 1C/3193	B.11/693	Scribers, fitters', 7 in.
1C/2187	B.11/8032	Spanners :—
		Adjustable, steel, King Dick, 4 in.
1C/2220	B.11/3606	Adjustable, steel, King Dick, 6 in.
1C/2222	B.11/8033	Adjustable, steel, open-end type, 4 in.
N.I.V.	B.11/8034	Box, D/E, 0 B.A. \times 2 B.A., 4 in. long.
N.I.V.	B.11/8035	Box, D/E, 4 B.A. \times 6 B.A., 4 in. long.
N.I.V.	B.11/8036	Box, D/E, 0 B.A. \times 2 B.A., 9 in. long.
1C/5579	B.11/8037	Box, D/E, 4 B.A. \times 6 B.A., 9 in. long.
1C/5580	B.11/8038	Box, D/E, 7 B.A. \times 8 B.A., 3 in. long.
N.I.V.	B.11/8039	Folding, 0 B.A. to 8 B.A.
like 1C/5438	B.11/8040	D/E, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in. Whit. 30° angle between head and shank.
like 1C/5028	B.11/3651	D/E, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in. Whit.
		D/E, $\frac{3}{16}$ in. \times $\frac{1}{2}$ in. Whit.
1C/2247	B.11/8041	D/E, $\frac{3}{16}$ in. \times $\frac{1}{4}$ in. Whit.
1C/2244	B.11/8042	D/E, 3 B.A. \times 5 B.A.
1C/2245	B.11/8043	D/E, 6 B.A. \times 8 B.A.
N.I.V.	B.11/8044	Tubular box, $\frac{1}{8}$ in. \times $\frac{3}{16}$ in. Whitworth.
N.I.V.	B.11/8045	Tubular box, $\frac{1}{4}$ in. \times $\frac{5}{16}$ in. Whitworth.
1C/2229	B.11/3861	Tubular box, $\frac{3}{8}$ in. \times $\frac{7}{16}$ in. Whitworth.
1C/5033	B.11/3862	Tubular box, $\frac{1}{2}$ in. \times $\frac{3}{8}$ in.
1C/5034	B.11/3863	Squares, steel, 4 in. stock, 6 in. blade.
1C/5035	B.11/8046	Tweezers, fine round point, 6 in.
1C/2298	B.11/4254	Vices, hand, length overall 4 $\frac{1}{2}$ in.
N.I.V.	B.11/8047	
like 1C/2616	B.11/C.518	