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ADMIRALTY FLEET ORDER

GRIFFON ENGINE AND POWER PLANT TOOLS

ADMIRALTY, S.W.1,
30th March, 1944.

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.

HEAD OF "P" BRANCH

1634.—Griffon Engine and Power Plant Tools

(N.S. Air. 4618/44.—30 Mar. 1944.)

Tools detailed in the Appendix to this Order have been introduced for maintenance and repair of Griffon II and VI engines and power plants (Griffon II).

2. Services indicated will be supplied with tools in accordance with the allowances in the Appendix. These tools are to be taken on charge as individual items.

3. Tools which are also used on Merlin engines are marked "†" and the allowance is not to be duplicated, i.e., where a Merlin tool is held which is also for use on Griffon, the greater allowance, if required, may be held.

4. Tools allowed will, broadly, limit the work which can be undertaken by these services to the following:—

- (a) Squadrons Daily inspections.
Daily maintenance.
Minor inspections.
- (b) Aircraft Carriers (Fleet and Light Fleet). Major inspections.
Minor repairs and replacements which involve light stripping only. Shock loading within limits laid down in A.P. 2234A.

Changing of power plants and/or engines.
Replacement of cylinder block assemblies, servicing of valves, etc.
- (c) Aircraft Carriers (Escort) ... As for (b) but on a smaller scale.
- (d) Aircraft Carriers (Merchant) As for Class "D" and "E" Naval air stations with the addition of changing power plants.
- (e) Naval Air Stations (Class "A", "B" and "C"). Major inspections.
Minor repairs and replacements which involve slight stripping only. Shock loading within limits laid down in A.P. 2234A. Changing of power plants and/or engines. Replacement of cylinder block assemblies and servicing of valves, etc.
- (f) Naval Air Stations (Class "D" and "E"). Daily maintenance.
Daily inspections.
Minor inspections and repairs by replacement with complete assemblies which do not involve removal of engine or power plant.
- (g) Repair Yards (Class "A") ... Complete overhauls and major repairs, including salvage of parts to approved schemes.
- (h) Repair Yards:—
(Class "B" Special) ... (i) Those yards specializing in complete overhaul of Rolls Royce engines, as for Repair Yards Class "A", less valve seat salvage and slight reduction of other salvage work.

(Class "B" Normal) ... (ii) Those not specializing in Rolls Royce engine repair as for Naval Air Station Class "A".
- (i) H.M.S. "Unicorn" As for Repair Yards Class "A", but on a limited scale.

(j) Engine Repair Ships... .. Those specializing in the complete overhaul of Rolls Royce engines as for Repair Yards Class "B" Special (i).

5. In general, work undertaken by the above-mentioned services is to come within limitations laid down in A.P. 2233A, 2234A, and other approved reconditioning schedules.

6. These tools are in very short supply, and to ensure economy and distribution of complete ranges to services, demands for tools are to be limited to immediate requirements.

Serial No.	Description	Quantity	Remarks
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Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class C Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH																	
<i>Standard Tools</i>																	
70222	WM.95	Socket, 3 B.A. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70221	WM.96A	Socket, 1/2-in. Whitworth, 2 B.A. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
	M.10M	Socket, 10-mm., 1 B.A. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70217	WF.99	Socket, 3/8-in. Whitworth, 1/2-in., B.S.F. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70218	WF.100	Socket, 1/2-in. Whitworth, 3/8-in. B.S.F. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70230	WSW.100	Socket (long), 1/2-in. Whitworth, 3/8-in. B.S.F. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70219	WF.101	Socket, 5/8-in. Whitworth, 3/8-in. B.S.F. ...	† † †	x	x	1	3	2	2	4	3	2	2	12	4	12	10
70220	WF.102	Socket, 3/8-in. Whitworth, 7/8-in. B.S.F. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70226	WS.103/ M.1201	Socket (long), 7/8-in. Whitworth, 1/2-in. B.S.F. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70231	WSW.106	Socket (long), 5/8-in. Whitworth, 3/8-in. B.S.F. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70214	SW.290	Socket, 1/2-in. Whitworth, 5/8-in. B.S.F. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70208	J.659	Spanner, jaw, 1/2-in. and 3/8-in. Whitworth ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70227	WS.1011	Spanner, jaw, 1/2-in. and 3/8-in. Whitworth ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70229	WST.1112	Spanner, jaw (thin), 3/8-in. and 5/8-in. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70215	W.1314	Spanner, jaw, 7/8-in. and 1/2-in. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70228	WS.1516	Spanner, jaw, 3/8-in. and 5/8-in. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70192	C.1415	Spanner, jaw, 6 B.A. and 7 B.A. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70194	C.1816	Spanner, jaw, 3 B.A. and 5 B.A. ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70195	OEX.10M	Spanner, combined ring and jaw, 1 B.A. ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70223	WOEX.100	Spanner, combined ring and jaw, 1/2-in. Whitworth. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70224	WOEX.120	Spanner, combined ring and jaw, 3/8-in. Whitworth. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70234	XL1618	Spanner, ring, 3 B.A. and 5 B.A. ...	† †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70232	WXS.6A9	Spanner, ring, 1/2-in. and 3/8-in. Whitworth ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70233	WXS.1011	Spanner, ring, 1/2-in. and 3/8-in. Whitworth ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70200	F.70N	Ratchet, 3/8-in. driving square ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70211	M.70L	Ratchet, 3/8-in. driving square ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70190	A.2/M.1202	Handle and socket adaptor ...	† † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70191	A.3	Handle and socket adaptor ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70199	F.11	Extension bar, 12-in. long ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70197	F.6	Extension bar, 6-in. long ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70196	F.2	Extension bar, 3-in. long ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70210	M.60	Extension bar, 6-in. long ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70198	F.8	Universal joint ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70212	M.U.S	Universal joint ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70207	4 P.O.	Screwdriver, 4-in. blade ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70243	12 P.O.	Screwdriver, 12-in. blade ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70237	No. 65	Pliers ...	† † † †	x	x	1	3	2	2	4	2	2	2	8	4	6	4
70240	No. 87	Pliers, side snip ...	† † † †	x	x	1	3	2	2	4	3	2	2	10	4	8	6
70343	GN.8402	Spanner, C, adjustable, small ...	† †	x	x	1	4	2	2	4	3	2	2	10	4	8	6
70344	GN.8399	Spanner, C, adjustable, large ...	† †	x	x	1	4	2	2	4	3	2	2	10	4	8	6
70241	No. 691	Hammer, pyralin tips (1/2-lb.) ...	† †	x	x	1	4	2	2	4	3	2	2	10	4	8	6
SECTION 36DD																	
5024	F.6392	Spanner, jaw, 1 1/8-in. and 1 1/4-in. B.S.F. ...	†	x	x	1	3	2	2	4	3	2	2	10	4	8	6
42753	D.12270	Spanner, box, for spark plugs ...	†	x	x	6	4	2	2	6	4	3	3	6	6	6	4
5006	E.6711	Bar, tommy, .375-in. diameter x 6.009" long ...	†	x	x	6	4	3	3	6	4	3	3	12	6	10	8
6016	E.12645	Bar, tommy, .437-in. diameter x 7.500" long ...	†	x	x	6	4	3	3	6	4	3	3	10	4	8	6
6018	E.11927	Bar, tommy, .500 in. diameter x 8.500" long ...	†	x	x	6	4	3	3	6	4	3	3	10	4	8	6
22428	E.73553	Spanner, union, thin jaw, 1 1/8-in. B.S.F. ...	†	x	x	2	4	4	2	6	4	2	2	10	4	8	6
5028	E.30923	Spanner, union, thin jaw, 3/4-in. B.S.F. ...	†	x	x	2	4	4	2	6	4	2	2	10	6	8	6
6108	E.30139	Spanner, union, thin jaw, 1/2-in. B.S.F. ...	†	x	x	2	4	4	2	6	4	2	2	10	6	8	6
6106	E.30140	Spanner, union, thin jaw, 1/4-in. B.S.F. ...	†	x	x	2	4	4	2	6	4	2	2	10	6	8	6
6121	E.30922	Spanner, union, thin jaw, 3/8-in. B.S.F. ...	†	x	x	2	4	4	2	6	4	2	2	10	6	8	6
SECTION 36HH																	
<i>Crankcase and Bearings</i>																	
54503	GN.2748	Spanner, jaw, .601-in. flats ...		x	x	1	3	2	2	3	2	2	2	6	3	6	3
70012	GN.6650	Extractor ...		x	x	-	2	1	1	2	1	1	1	6	2	6	3
54505	GN.2866 (Assy.)	Spanner, box ...		x	x	-	3	2	2	3	2	2	2	6	3	6	3

† Tools common to Merlin engines.

‡ When tools, shown ‡, are not available "in toto" for a service, the tools shown in the Supplementary Appendix herewith will be available for supply as alternatives.

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Crankcase and Bearings—contd.</i>																	
54507	HB.29948	Tool, withdrawing ...		x	x									6	-	6	3
54666	HB.30201	Tool, withdrawing ...		x	x									2	-	2	1
70203	HB.27780	Tension wrench (1/3rd to be set at, 100-lb., 120-lb., 150-lb.).	†	x	x		3	3		3	3	3		12	3	12	9
70205	HB.31355	Rig, testing ...	†	x	x		1	1		1	1	1		1	1	1	1
70238	No.67	Adaptor, ratchet ...	†	x	x		3	3		3	3	3		12	3	12	9
70244	S.6	Extension, 5-in. long x 1/2-in. driving sq. ...	†	x	x		3	3		3	3	3		10	3	12	9
70186	GN.7766	Spanner, box ...		x	x									6	-	6	3
70214	SW.290	Socket, cylinder studs (see standard too's)...	† ‡	x	x		-	-		-	-	-		-	-	-	-
70245	WDH.105	Socket, 1/2-in. B.S.F. ...		x	x		3	3		3	3	3		12	3	12	9
54667	HB.30259	Tool, assembling and withdrawing ...		x	x									2	-	2	1
54668	HB.30260	Hand reaming and facing bush plate ...		x	x									1	-	1	1
54669	HB.30261	Hand facing cutter ...		x	x									3	-	3	2
54670	HB.30262	Arbor ...		x	x									2	-	2	2
54671	HB.30263	Setting gauge ...		x	x									2	-	2	1
54672	HB.30942	Hand reamer ...		x	x									3	-	3	2
54673	HB.30943	Arbor ...		x	x									2	-	2	1
54674	HB.30264	Pilot and drift for assembling ...		x	x									12	-	12	1
54675	HB.30265	Tool, withdrawing ...		x	x									2	-	2	1
54676	HB.30944	Reamer ...		x	x									3	-	3	2
54678	HB.30946	Bush plate (hand reaming) ...		x	x									1	-	1	1
54677	HB.30945	Arbor ...		x	x									2	-	2	1
54679	HB.30947	Bush plate (hand reaming and facing) ...		x	x									1	-	1	1
54680	HB.30948	Hand facing cutter ...		x	x									3	-	3	2
54681	HB.30949	Arbor ...		x	x									2	-	2	1
54682	HB.30950	Setting gage ...		x	x									2	-	2	1
54683	HB.30951	Hand reamer ...		x	x									3	-	3	2
54684	HB.30952	Arbor ...		x	x									2	-	2	1
54685	HB.30953	Tool, assembling and withdrawing ...		x	x									2	-	2	1

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54686	HB.30957	Tool, withdrawing ...		x	x									2	-	2	1
54687	HB.30961	Tool, withdrawing ...		x	x									2	-	2	1
54688	HB.30962	Tool, withdrawing ...		x	x									2	-	2	1
54689	HB.30963	Tool, assembling ...		x	x									2	-	2	1
54690	HB.30964	Tool, withdrawing ...		x	x									2	-	2	1
54691	HB.30965	Tool, withdrawing ...		x	x									2	-	2	1
54692	HB.31834	Reaming jig ...		x	x									1	-	1	1
54693	HB.30650	Reamer, standard ...		x	x									3	-	3	2
54694	HB.31835	Reamer, .002 o/size ...		x	x									3	-	3	2
54695	HB.31836	Reamer, .004 o/size ...		x	x									3	-	3	2
54696	HB.31837	Reamer, .006 o/size ...		x	x									3	-	3	2
54697	HB.31838	Reamer, .008 o/size ...		x	x									3	-	3	2
54698	HB.31839	Reamer, .010 o/size ...		x	x									3	-	3	2
54699	HB.30649	Reamer, standard ...		x	x									3	-	3	2
54700	HB.31840	Reamer, .002 o/size ...		x	x									3	-	3	2
54701	HB.31841	Reamer, .004 o/size ...		x	x									3	-	3	2
54702	HB.31842	Reamer, .006 o/size ...		x	x									3	-	3	2
54703	HB.31843	Reamer, .008 o/size ...		x	x									3	-	3	2
54704	HB.31844	Reamer, .010 o/size ...		x	x									3	-	3	2
54705	HB.29193	Reamer, bar ...		x	x									1	-	1	1
54706	HB.29191	End plates ...		x	x									1	-	1	1
54707	HB.29192	End plates ...		x	x									1	-	1	1
54708	HB.29199	Facing cutter ...		x	x									1	-	1	1
54709	HB.29200	Radius cutter, standard size ...		x	x									2	-	2	2
54710	HB.29201	Radius cutter, .005 and .010 u/size ...		x	x									2	-	2	2
54711	HB.29202	Radius cutter, .015 and .020 u/size ...		x	x									2	-	2	2
54729	HB.29203	Radius cutter, .025 and .030 u/size ...		x	x									2	-	2	2
54712	HB.29203X	Radius cutter, .035 and .040 u/size ...		x	x									2	-	2	2
54713	HB.29204	Radius cutter, standard ...		x	x									2	-	2	2
54714	HB.29205	Radius cutter, .005 and .010 u/size ...		x	x									2	-	2	2
54715	HB.29206	Radius cutter, .015 and .020 u/size ...		x	x									2	-	2	2
54716	HB.29207	Radius cutter, .025 and .030 u/size ...		x	x									2	-	2	2
	HB.29207X	Radius cutter, .035 and .040 u/size ...		x	x									2	-	2	2
54717	HB.29227	Bush, reamer bar, Standard ...		x	x									1	-	1	1
54718	HB.29228	Bush, reamer bar, .005 u/size ...		x	x									1	-	1	1
54719	HB.29229	Bush, reamer bar, .010 u/size ...		x	x									1	-	1	1
54720	HB.29230	Bush, reamer bar, .015 u/size ...		x	x									1	-	1	1
54721	HB.29231	Bush, reamer bar, .020 u/size ...		x	x									1	-	1	1
54722	HB.29232	Bush, reamer bar, .025 u/size ...		x	x									1	-	1	1

† Tools common to Merlin engines.

‡ When tools, shown ‡, are not available "in toto" for a service, the tools shown in the Supplementary Appendix herewith will be available for supply as alternatives.

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Crankcase and Bearings—contd.</i>																	
54723	HB.29233	Bush, reamer bar, .030 u/size		x	x									1		1	1
54724	HB.29234	Bush, reamer bar, .035 u/size		x	x									1		1	1
54725	HB.29234X	Bush, reamer bar, .040 u/size		x	x									1		1	1
54730	HB.29210	Bush, reamer bar		x	x									3		3	3
54726	HB.29194	Adjustable taper reamer		x	x									3		3	2
54727	HB.29195	Setting gauge for adjustable reamer		x	x									1		1	1
54728	HB.12326	Reamer, adjusting		x	x									5		5	3
—	HB.12326/5	Blades, reamer (replacements), in sets of 10		x	x									5		5	3
36DD/6391	HB.7161	Spanner		x	x									2		2	2
36DD/43581	HB.19281	Spanner		x	x									6		6	4
54731	HB.29196	Stop ring, adjustable taper reamer		x	x									1		1	1
54732	HB.29197	Stop ring, adjustable taper reamer		x	x									1		1	1
54733	HB.29209	Setting gauge for adjustable taper reamer		x	x									1		1	1
—	HB.34894	Tool, assembling		x	x									1		1	1
—	HB.34895	Tool, withdrawing		x	x									1		1	1
54752	HB.30388	Bedding plate		x	x									1		1	1
54753	HB.30389	Bar		x	x									1		1	1
54754	HB.30390	Bush		x	x									1		1	1
70085	HB.30390A	Bush		x	x									1		1	1
54755	HB.30393	Bedding plate		x	x									1		1	1
54756	HB.30394	Bushes		x	x									3		3	3
54757	HB.30378	Bedding plate		x	x									1		1	1
70013	HB.31815	Tool for assembly		x	x									3		3	2
70014	HB.31816	Tool, withdrawing		x	x									2		2	1
54877	HB.31850	Gauge, surface testing		x	x									1		1	1
54878	HB.32067	Bush plate, c'bore and tapping		x	x									1		1	1

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54879	HB.32068	Three-lipped cutter		x	x									3		3	3
54880	HB.32069	Reamer	All studs	x	x									3		3	3
54881	HB.32070	Hand tap		x	x									3		3	3
54882	HB.32164	Arbor, centre bearing	centre studs	x	x									2		2	2
54883	HB.32165	Arbor, centre bearing	studs	x	x									2		2	2
54884	HB.32166	Arbor, inter and ends		x	x									2		2	2
54885	HB.32071	Hand reamer—roughing	Inter and end studs	x	x									3		3	3
54886	HB.32072	Hand reamer, finishing		x	x									3		3	3
54887	HB.32073	Setting gauge		x	x									2		2	2
54888	HB.30592	Hand reamer, roughing	Centre studs	x	x									2		2	2
54889	HB.30593	Hand reamer, finishing		x	x									3		3	3
54890	HB.32179	Setting gauge		x	x									3		3	3
54891	HB.19872	Wrench		x	x									2		2	2
54892	HB.32534	Hand reamer		x	x									2		2	2
54893	HB.32167	Bush plate, c'bore and tapping		x	x									3		3	3
54894	HB.32168	Three-fluted cutter		x	x									1		1	1
54895	HB.32169	Arbor	C'boring	x	x									3		3	3
54896	HB.32170	Setting gauge		x	x									3		3	3
54897	HB.32171	Reamer		x	x									2		2	2
54898	HB.32172	Arbor	C'boring	x	x									3		3	3
54899	HB.32173	Setting gauge		x	x									2		2	2
54900	HB.32174	Three-lipped cutter		x	x									3		3	3
54901	HB.32175	Hand reamer		x	x									3		3	3
54902	HB.32176	Hand tap		x	x									3		3	3
54903	HB.32177	Arbor, long	Thread	x	x									2		2	2
54904	HB.32178	Arbor, short		x	x									2		2	2
54905	HB.27779	Wrench		x	x									2		2	2
54906	H.100035	Hand reaming fixture		x	x									1		1	1
54907	H.100107	Alignment bushes		x	x									4		4	4
54908	H.100039	Bar (hand reaming)		x	x									1		1	1
54909	H.100040	Hand reamer, standard		x	x									2		2	2
54910	H.102624	Hand reamer, .010 o/size		x	x									2		2	2
54911	H.102625	Hand reamer, .020 o/size		x	x									2		2	2
54912	H.102626	Hand reamer, .030 o/size		x	x									2		2	2
54913	H.102627	Hand reamer, .040 o/size		x	x									2		2	2
54914	H.100036	Bar, hand reaming		x	x									2		2	2
54915	H.100037	Hand reamer, standard		x	x									1		1	1
54916	H.102628	Hand reamer, .010 o/size		x	x									2		2	2
54917	H.102629	Hand reamer, .020 o/size		x	x									2		2	2
54918	H.102630	Hand reamer, .030 o/size		x	x									2		2	2
54919	H.102631	Hand reamer, .040 o/size		x	x									2		2	2
54920	H.100187	Pin gauge, standard		x	x									2		2	2

V * * *

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships	
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
SECTION 36HH—contd.																		
<i>Crankcase and Bearings—contd.</i>																		
54921	H.102650	Pin gauge, .010 o/size		x	x									2	-	2	2	
54922	H.102651	Pin gauge, .020 o/size		x	x									2	-	2	2	
54923	H.102652	Pin gauge, .030 o/size		x	x									2	-	2	2	
54924	H.102653	Pin gauge, .040 o/size		x	x									2	-	2	2	
54925	H.100188	Pin gauge, standard		x	x									2	-	2	2	
54926	H.102646	Pin gauge, .010 o/size		x	x									2	-	2	2	
54927	H.102647	Pin gauge, .020 o/size		x	x									2	-	2	2	
54928	H.102648	Pin gauge, .030 o/size		x	x									2	-	2	2	
54929	H.102649	Pin gauge, .040 o/size		x	x									2	-	2	2	
54930	H.100191	Ring gauge, standard		x	x									1	-	1	1	
54931	H.102654	Ring gauge, .010 o/size		x	x									1	-	1	1	
54932	H.102655	Ring gauge, .020 o/size		x	x									1	-	1	1	
54933	H.102656	Ring gauge, .030 o/size		x	x									1	-	1	1	
54934	H.102657	Ring gauge, .040 o/size		x	x									1	-	1	1	
70086	HB.31817	Tool for aligning		x	x									2	-	2	1	
70015	HB.32523	Handle for assembling		x	x									2	-	2	1	
70016	HB.32524	Tool, withdrawing		x	x									2	-	2	1	
—	HB.35439	Extension socket		x	x									3	-	3	1	
—	HB.35440	Extension socket		x	x									6	-	6	2	
<i>Crankshaft</i>																		
54508	HB.30199	Tool, lifting		x	x									3	-	3	2	
N.I.V.	—	Cork, $\frac{1}{8}$ -in. dia. × $\frac{1}{4}$ -in. dia. × $\frac{1}{4}$ -in. (Code No. 330/2900.)	A. Ogden of Manchester	x	x									AR	-	AR	AR	
N.I.V.	—	Cork, $\frac{1}{8}$ -in. dia. × $\frac{3}{8}$ -in. dia. × $\frac{7}{8}$ -in. (Code No. E.32520.)		x	x										AR	-	AR	AR
N.I.V.	—	Cork, $\frac{3}{8}$ -in. dia. × $\frac{1}{4}$ -in. dia. × $\frac{3}{4}$ -in. (Code No. E.30575.)		x	x										AR	-	AR	AR
54935	HB.29604	Reaming jig		x	x										1	-	1	1
54875	HB.29604-7	Det. 7 setting pins (new driving gear)		x	x									2	-	2	2	
54876	HB.29604-8	Det. 8 setting pins, Standard		x	x									3	-	3	3	
54936	HB.32182-8	Det. 8 setting pins, .005 o/size		x	x									3	-	3	3	
70093	HB.32183	Det. 8 setting pins, .010 o/size		x	x									3	-	3	3	
54938	HB.32180	Hand reamer, .005 o/size		x	x									4	-	4	3	
54939	HB.32181	Hand reamer, .010 o/size		x	x									4	-	4	3	
54940	HA.23411	Adaptor, flange end		x	x									1	-	1	1	
54941	HA.25248	Plug, centre		x	x									1	-	1	1	
54844	HA.25223	Ring, setting		x	x									1	-	1	1	
<i>Piston</i>																		
54509	GN.3108	Drift		x	x			2	1		2	2	2	6	2	6	3	
54510	HB.29713	Band, retaining		x	x			12	8		12	12	12	24	12	24	12	
—	HB.34893	Pliers, ring scraper		x	x			2	2		3	2	1	6	3	6	3	
36DD/6030	HB.2442	Tweezers, assembly	†	x	x			2	2		3	2	1	6	3	6	3	
<i>Con. Rods</i>																		
54960	HB.30645	Hand reaming jig		x	x									1	-	1	1	
54961	HB.30640	Setting pins, std.		x	x									2	-	2	2	
54962	HB.32034	Setting pins, .002 o/size		x	x									2	-	2	2	
54963	HB.32035	Setting pins, .004 o/size		x	x									2	-	2	2	
54964	HB.32036	Setting pins, .006 o/size		x	x									2	-	2	2	
54965	HB.30641	Arbor, hand reamers		x	x									1	-	1	1	
54966	HB.32037	Hand reamer, .002 o/size		x	x									3	-	3	3	
54967	HB.32038	Hand reamer, .004 o/size		x	x									3	-	3	3	
54968	HB.32039	Hand reamer, .006 o/size		x	x									3	-	3	3	
54969	HB.32040	Limit gauge, .002 o/size		x	x									1	-	1	1	
54970	HB.32041	Limit gauge, .004 o/size		x	x									1	-	1	1	
54971	HB.32042	Limit gauge, .006 o/size		x	x									1	-	1	1	
54972	HB.32043	Limit gauge, .002 o/size		x	x									1	-	1	1	
54973	HB.32044	Limit gauge, .004 o/size		x	x									1	-	1	1	
54974	HB.32045	Limit gauge, .006 o/size		x	x									1	-	1	1	
54975	HB.32046	Hand reaming jig		x	x									1	-	1	1	
54976	HB.32047	Setting bar		x	x									1	-	1	1	
54728	HB.12326	Adjustable reamer (see Crankcase and Bearings).		x	x									-	-	-	-	
54977	HB.7587	Spanner, adjustable reamer		x	x									2	-	2	2	
54978	HB.32048	Cutter bar		x	x									1	-	1	1	
54979	HB.32049	Facing cutter		x	x									2	-	2	2	

† Tool common to Merlin engines.

Reference No.	Part No.	Description	See footnote	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
Connecting Rods—contd.																	
54980	HB.32050	Radius cutter, std. and .065 u/size ...		x	x									2		2	2
54981	HB.32051	Radius cutter, .010 and .015 u/size ...		x	x									2		2	2
54982	HB.32052	Radius cutter, .020 and .025 u/size ...		x	x									2		2	2
54983	HB.32053	Sheet gauge ...		x	x									1		1	1
54984	HB.32054	Feeler gauge ...		x	x									1		1	1
54985	H.102763	Limit gauge, Go ...	Std.	x	x									1		1	1
54986	H.102764	Limit gauge, Not go ...		x	x										1		1
54987	H.102765	Limit gauge, Go ...	.005 u/size	x	x									1		1	1
54988	H.102766	Limit gauge, Not go ...		x	x										1		1
54989	H.102767	Limit gauge, Go ...	.010 u/size	x	x									1		1	1
54990	H.102768	Limit gauge, Not go ...		x	x										1		1
54991	H.102769	Limit gauge, Go ...	.015 u/size	x	x									1		1	1
54992	H.102770	Limit gauge, Not go ...		x	x										1		1
54993	H.102771	Limit gauge, Go ...	.020 u/size	x	x									1		1	1
54994	H.102772	Limit gauge, Not go ...		x	x										1		1
54995	H.102773	Limit gauge, Go ...	.025 u/size	x	x									1		1	1
54996	H.102774	Limit gauge, Not go ...		x	x										1		1
54997	HB.25494	Hand reaming jig ...		x	x									1		1	1
54998	HB.31794	Setting plug, 1st ...	std.	x	x									2		2	2
54999	HB.31795	Setting plug, 2nd ...		x	x										2		2
55000	HB.31796	Setting plug, 1st ...	.002 o/size	x	x									2		2	2
55001	HB.31797	Setting plug, 2nd ...		x	x										2		2
55002	HB.31798	Setting plug, 1st ...	.004 o/size	x	x									2		2	2
55003	HB.31799	Setting plug, 2nd ...		x	x										2		2
55004	HB.31800	Setting plug, 1st ...	.006 o/size	x	x									2		2	2
55005	HB.31801	Setting plug, 2nd ...		x	x										2		2
55006	HB.25501	Hand reamer, std. ...		x	x									3		3	3
55007	HB.25498	Holder, std., reamer ...		x	x									2		2	2
55008	HB.31802	Hand reamer, .002 o/size ...		x	x									2		2	2

55009	HB.31803	Hand reamer, .004 o/size ...		x	x									3		3	3	
55010	HB.31804	Hand reamer, .006 o/size ...		x	x									3		3	3	
55012	HB.31805	Holder, o/size reamers ...		x	x									2		2	2	
55013	HB.25550	Limit gauge, std. (large) ...		x	x									1		1	1	
55014	HB.30001	Limit gauge, std. (small) ...		x	x									1		1	1	
55015	HB.31806	Limit gauge, std., .002 o/size ...	Small	x	x									1		1	1	
55016	HB.31807	Limit gauge, std., .004 o/size ...		x	x										1		1	1
55017	HB.31808	Limit gauge, std., .006 o/size ...	Large	x	x									1		1	1	
55018	HB.31809	Limit gauge, std., .002 o/size ...		x	x										1		1	1
55019	HB.31810	Limit gauge, std., .004 o/size ...		x	x										1		1	1
55020	HB.31811	Limit gauge, std., .006 o/size ...		x	x									1		1	1	
55021	HB.32055	Hand reaming jig ...		x	x									1		1	1	
55022	HB.32056	Setting bar ...		x	x									1		1	1	
55023	HB.32057	Cutter bar ...		x	x									3		3	3	
55024	HB.32058	Adjustable reamer ...		x	x									2		2	2	
55025	HB.31359	Spanner, adjustable reamer ...		x	x									2		2	2	
55026	HB.32059	Facing cutter ...		x	x									2		2	2	
55027	HB.32060	Radius cutter, std. ...		x	x									2		2	2	
55028	HB.32061	Radius cutter, .005 and .010 u/size ...		x	x									2		2	2	
55029	HB.32062	Radius cutter, .015 and .020 u/size ...		x	x									2		2	2	
55030	HB.32063	Radius cutter, .025 and .030 u/size ...		x	x									2		2	2	
55031	HB.32064	Radius cutter, .035 and .040 u/size ...		x	x									2		2	2	
55032	HB.32065	Sheet gauge ...		x	x									1		1	1	
55033	HB.32066	Feeler gauge ...		x	x									1		1	1	
70263	HB.32058-5	Blades, reamer (replacement) (in sets of 8)...		x	x									1		1	1	
55052	HB.27185	Packing piece ...		x	x									3		3	3	
70133	HA.26467	Grinding arbor, std. ...		x	x									1		1	1	
70134	HA.26468	Collet, .000-in.-.005-in. u/size ...		x	x									1		1	1	
70135	HA.26469	Collet, .005-in.-.010-in. u/size ...		x	x									1		1	1	
70136	HA.26470	Collet, .010-in.-.015-in. ...		x	x									1		1	1	
70137	HA.26471	Collet, .015-in.-.020-in. ...		x	x									1		1	1	
70138	HA.26472	Collet, .020-in.-.025-in. ...		x	x									1		1	1	
70139	HA.26473	Collet, .025-in.-.030-in. ...		x	x									1		1	1	
70140	HA.26474	Collet, .030-in.-.035-in. ...		x	x									1		1	1	
70141	HA.26475	Collet, .035-in.-.040-in. ...		x	x									1		1	1	
55068	HA.21619	Width gauge ...		x	x									3		3	3	
70125	HB.32536	Holding device ...		x	x									2		2	2	
70127	HB.33913	Gauge ring ...		x	x									1		1	1	
70126	GN.7605	Spanner, holding ...		x	x									6		6	4	
—	H.104397	Gauge ring ...		x	x									1		1	1	

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Valves and Fittings</i>																	
54533	GN.3378 (Assy.)	Compressor, valve spring ...		x	x	1	2	2	1	2	2	2	1	4	2	4	2
54536	HB.29711	Gauge, bluing...		x	x		2	1		2	1	1		2	2	2	2
54535	HB.29712	Block, lapping ...		x	x		2	1		2	2	1		4	2	4	2
54537	HB.29710	Gauge, bluing...		x	x		2	1		2	1	1		2	2	2	2
54863	GN.7482	Tool, lapping ...		x	x		2	1		2	2	1		4	2	4	2
54864	GN.7483	Tool, lapping ...		x	x		2	1		2	2	1		4	2	4	2
36DD/37841	D.8964	Tool, valve holding ...	†	x	x	1	2	1	1	2	2	1	1	4	2	4	2
<i>Cylinders</i>																	
54511	HB.29372	Plate, lifting ...		x	x		2	2		2	2	2		6	2	6	3
54512	HB.29374	Template, instruction ...		x	x		2	2		2	2	2		6	2	6	3
36DD/54012 (200-220v) or 36DD/54013 (230-250-v.)	HB.31149	Rig, eccentric, grinding ...	†	x	x		1	1		1	1	1		2	1	2	2
54513	HB.27614	Pilot for rig ...		x	x		6	6		6	6	6		12	6	12	12
54514	HB.27617	Wheel, grinding ...		x	x		3	3		3	3	3		12	3	12	12
54515	HB.29715	Gauge, setting ...		x	x		1	1		1	1	1		2	1	2	2
54516	HB.29717	Gauge, bluing...		x	x		1	1		1	1	1		2	1	2	2
54517	HB.29718	Gauge, clock ...		x	x		1	1		1	1	1		2	1	2	2
54518	HB.27615	Pilot for rig ...		x	x		6	6		6	6	6		12	6	12	12
54519	HB.27714	Gauge, setting ...		x	x		1	1		1	1	1		2	1	2	2
54520	HB.29716	Gauge, bluing ...		x	x		1	1		1	1	1		2	1	2	2
54521	HB.29719	Gauge, clock ...		x	x		1	1		1	1	1		2	1	2	2
54523	HB.27616	Wheel, grinding, 20-in. clearance ...		x	x		2	2		3	2	2		6	3	6	6
54522	HB.30204	Adaptor, wheel grinding (for use when HB.19995 is used in place of HB.31149).		x	x		1	1		1	1	1		2	1	2	2

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54524	HB.29720	Tool, valve seating ...		x	x		1	1		1	1	1		1	1	1	1
54525	HB.29721	Cutter, 20° angle ...		x	x		2	2		2	2	1		2	2	2	2
54526	HB.29933	Gauge, seating ...		x	x		1	1		1	1	1		1	1	1	1
54527	HB.29934	Gauge, seating ...		x	x		1	1		1	1	1		1	1	1	1
54528	HB.29935	Tool, lapping ...		x	x		1	1		1	1	1		1	1	1	1
36DD/37893	HB.16140	Handle, lapping tool ...	†	x	x		1	1		1	1	1		1	1	1	1
54529	HB.29722	Gauge, bluing ...		x	x		1	1		1	1	1		1	1	1	1
70269	HB.34955A-C	Gauge, bluing, inlet valve seats ...		x	x		1	1		1	1	1		1	1	1	1
54530	HB.26336	Blocks, setting up ...		x	x		1	1		1	1	1		1	1	1	1
54531	HB.29947	Tool, removing ...		x	x		2	2		4	2	2		8	4	8	4
54532	HB.29946	Tool, withdrawing ...		x	x									2	2	2	2
55073	HB.30099	Spanner ...		x	x									2	2	2	2
54583	HB.31360	Chart of operations and tools ...		x	x									3	3	3	2
D.O. supply—drawing																	
54590	HB.31513	Wrench, arbor, removing ...		x	x									2			2
54584	HB.31514	Tap, arbor, removing...		x	x									1			1
54585	HB.31515	Shell tap (left-hand) ...		x	x									3			3
54586	HB.31516	Arbor, removing ...		x	x									1			1
54587	HB.31517	Tap, arbor, removing...		x	x									1			1
54588	HB.31518	Shell tap (left-hand) ...		x	x									3			3
54589	HB.31519	Arbor, removing ...		x	x									1			1
54591	HB.31520	Arbor, boring cutter ...		x	x									1			1
54592	HB.31521	Cutter, boring, .050 o/size ...		x	x									3			3
54593	HB.31522	Pilot, cutter, boring ...		x	x									2			2
54594	HB.31523	Cutter, boring, .050 o/size ...		x	x									3			3
54595	HB.31524	Pilot, cutter, boring ...		x	x									2			2
54596	HB.31527	Arbor, hand taps ...		x	x									2			2
54597	HB.31528	Pilot, hand tap (standard to .010, o/size) ...		x	x									2			2
54598	HB.31529	Pilot, hand tap (.050 to .060 o/size) ...		x	x									2			2
54599	HB.31530	Tap, hand (standard size) ...		x	x									2			2
54600	HB.31531	Tap, hand (.005 o/size) ...		x	x									3			3
54601	HB.31532	Tap, hand (.010 o/size) ...		x	x									3			3
54602	HB.31533	Tap, hand (.050 o/size) ...		x	x									3			3
54603	HB.31534	Tap, hand (.055 o/size) ...		x	x									3			3
54604	HB.31535	Tap, hand (.060 o/size) ...		x	x									3			3
54605	HB.31536	Pilot, hand tap (std. to .010 o/s) ...		x	x									2			2
54606	HB.31537	Pilot, hand tap (.050 to .060 o/s) ...		x	x									2			2
54607	HB.31538	Tap, hand (std. size) ...		x	x									3			3

† Tools common to Merlin Engines.

ø For use with HB.31149.

§ For use when HB.31149 is not available.

GRIFION ENGINE AND POWER PLANT TOOLS—contd.

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Reference No.	Part No.	Description	See footnote	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH (contd.)																	
<i>Cylinders—(contd.)</i>																	
54608	HB.31539	Tap, hand (.005 o/size)		x	x									3	-	-	2
54609	HB.31540	Tap, hand (.010 o/size)		x	x									3	-	-	2
54610	HB.31541	Tap, hand (.050 o/size)		x	x									3	-	-	2
54611	HB.31542	Tap, hand (.055 o/size)		x	x									3	-	-	2
70185	HB.31543	Tap, hand (.060 o/size)		x	x									3	-	-	2
54616	HB.31525	Arbor, clearance, cutter		x	x									1	-	-	1
54617	HB.31526	Cutter, clearance		x	x									2	-	-	2
54618	HB.31557	Tool, recessing, clearance		x	x									1	-	-	1
54619	HB.31558	Cutter, recessing, clearance		x	x									3	-	-	2
54620	HB.31559	Gauge, cutter		x	x									2	-	-	2
54621	HB.31546	Driver, seating cutters		x	x									1	-	-	1
54622	HB.31547	Pilot, screwed (std. size)		x	x									2	-	-	1
54623	HB.31548	Pilot, screwed (.005 o/size)		x	x									2	-	-	1
54624	HB.31549	Pilot, screwed (.010 o/size)		x	x									2	-	-	1
54625	HB.31550	Pilot, screwed (.050 o/size)		x	x									2	-	-	1
54626	HB.31551	Pilot, screwed (.055 o/size)		x	x									2	-	-	1
54627	HB.31552	Pilot, screwed (.060 o/size)		x	x									2	-	-	1
54628	HB.31553	Cutter, removing, 1st thread (std. to .010 o/size).		x	x									2	-	-	2
54629	HB.31554	Cutter, removing, 1st thread (.050 to .060 o/size).		x	x									2	-	-	2
54630	HB.31555	Cutter, hand, seating		x	x									2	-	-	2
54631	HB.31556	Gauge, seating		x	x									1	-	-	1
54632	HB.31560	Pilot, screwed (std. size)		x	x									2	-	-	1
54633	HB.31561	Pilot, screwed (.005 o/size)		x	x									2	-	-	1
54634	HB.31562	Pilot, screwed (.010 o/size)		x	x									2	-	-	1
54635	HB.31563	Pilot, screwed (.050 o/size)		x	x									2	-	-	1
54636	HB.31564	Pilot, screwed (.055 o/size)		x	x									2	-	-	1
54637	HB.31565	Pilot, screwed (.060 o/size)		x	x									2	-	-	1

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54638	HB.31566	Cutter, removing, 1st thread (std. to .010 o/size).		x	x									2	-	-	2
54639	HB.31567	Cutter, removing, 1st thread (.050 to .060 o/size).		x	x									2	-	-	2
54640	HB.31568	Cutter, hand seating (std. to .010 o/size) ...		x	x									3	-	-	2
54641	HB.31569	Cutter, hand seating (.050 to .060 o/size) ...		x	x									3	-	-	2
54642	HB.31570	Arbor, laps		x	x									1	-	-	1
54643	HB.31571	Lap, conical seating (std. to .010 o/size) ...		x	x									2	-	-	2
54644	HB.31572	Lap, conical seating (.050 to .060 o/size) ...		x	x									2	-	-	2
54645	HB.31573	Gauge, seating (std. to .010 o/size)		x	x									1	-	-	1
54646	HB.31574	Gauge, seating (.050 to .060 o/size)		x	x									1	-	-	1
54647	HB.31575	Spanner for fitting		x	x									2	-	-	2
54648	HB.31576	Spanner for fitting		x	x									2	-	-	2
54649	HB.31577	Arbor, seating cutters		x	x									1	-	-	1
54650	HB.31578	Cutter, trepanning		x	x									3	-	-	2
54651	HB.31579	Cutter, boring, first		x	x									3	-	-	2
54652	HB.31580	Cutter, boring, second		x	x									3	-	-	2
54653	HB.31581	Cutter, boring, finishing		x	x									3	-	-	2
54654	HB.31582	Cutter, facing		x	x									3	-	-	2
54655	HB.31583	Cutter, chamfering		x	x									3	-	-	2
54656	HB.26343	Gauge, limit		x	x									3	-	-	2
54657	HB.26344	Gauge, seating		x	x									1	-	-	1
54658	HB.31584	Arbor, seating cutters		x	x									1	-	-	1
54659	HB.31585	Cutter, trepanning		x	x									1	-	-	1
54660	HB.31586	Cutter, boring, first		x	x									3	-	-	2
54661	HB.31587	Cutter, boring, finishing		x	x									3	-	-	2
54662	HB.31588	Cutter, facing		x	x									3	-	-	2
54663	HB.31589	Cutter, chamfering		x	x									3	-	-	2
54664	HB.26345	Gauge, limit		x	x									3	-	-	2
54665	HB.26346	Gauge, limit		x	x									1	-	-	1
54758	HB.31345	Drift for assembling		x	x									1	-	-	1
54759	HB.31346	Drift for assembling		x	x									4	-	-	4
54760	HB.31177	Drift for removing		x	x									4	-	-	4
54761	HB.31178	Drift for removing		x	x									4	-	-	4
54762	HB.31179	Hand reamer		x	x									4	-	-	4
54763	HB.31180	Hand reamer		x	x									12	-	-	12
54764	HB.31181	Hand facing cutter		x	x									12	-	-	12
54765	HB.31182	Hand facing cutter		x	x									3	-	-	3
54766	HB.28716	Limit gauge		x	x									3	-	-	3
54767	HB.28715	Limit gauge		x	x									2	-	-	2
54768	HB.31185	Lapping plug		x	x									2	-	-	2

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Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Cylinders—contd.</i>																	
54769	HB.31186	Guide ...		x	x									2	-	2	1
54770	HB.31187	Gauge for checking lap ...		x	x									1	-	1	1
54771	HB.31347	Lapping rings ...		x	x									2	-	2	1
54772	HB.31348	Lapping ring ...		x	x									2	-	2	1
54773	HB.31357	Lapping block ...		x	x									2	-	2	1
54774	HB.31358	Lapping block ...		x	x									2	-	2	1
54775	HB.26335	Height gauge ...		x	x									2	-	2	1
54776	HB.26337	Facing cutter ...		x	x									2	-	2	1
54777	HB.26338	Arbor ...		x	x									2	-	2	1
54778	HB.26339	Lap ...		x	x									2	-	2	1
70270	HB.26337-4	Cutter, bare ...		x	x									2	-	2	1
55069	HB.29942	Assembling tool ...		x	x									1	-	1	1
55070	HB.29943	Withdrawing tool ...		x	x									1	-	1	1
55071	HB.29944	Assembling tool ...		x	x									1	-	1	1
55072	HB.29945	Withdrawing tool ...		x	x									1	-	1	1
55074	HB.30468	Spanner ...	†	x	x									2	-	2	2
36DD/44215	HB.19413	Hand tap ...	†	x	x									6	-	6	3
36DD/44216	H.58624A	Screw gauge ...	†	x	x									2	-	2	1
36DD/45322	HB.19667	Seating cutter ...	†	x	x									2	-	2	1
36DD/43041	HB.20076	Spanner ...	†	x	x									2	-	2	2
36DD/44212	HB.17342	Facing cutter ...	†	x	x									3	-	3	3
36DD/45399	HB.27218	Instruction sheet, o/size ...	†											AR	-	AR	AR
36DD/45397	HB.27190	Guide bush, standard thread, C'Bore ...	†	x	x									2	-	2	2
36DD/45398	HB.27191	Guide bush, .062 o/size thread, C'Bore ...	†	x	x									2	-	2	2
36DD/45394	HB.27187	Boring cutter, .062 o/size ...	†	x	x									3	-	3	2
36DD/45396	HB.27189	Tap, .062 o/size ...	†	x	x									4	-	4	3
36DD/46940	HB.27193	Screwed pilot, standard ...	†	x	x									2	-	2	2
36DD/46941	HB.27194	Screwed pilot, .062 o/size ...	†	x	x									2	-	2	2

D.O.s supply—drawing

36DD/46942	HB.27186	Boring cutter, .062 o/size ...	†	x	x									3	-	3	2
36DD/45407	HB.27192	Tap, .062 o/size ...	†	x	x									4	-	4	3
—	HB.35520	Micrometer, internal thread, standard to .010 ...		x	x									1	-	1	1
—	HB.35521	Micrometer, internal thread, valve seat, inlet ...		x	x									1	-	1	1
—	HB.35522	Micrometer, internal thread, valve seat, exhaust ...		x	x									1	-	1	1
—	HB.35523	Micrometer, internal thread, valve seat, inlet ...		x	x									1	-	1	1
<i>Spring Drive</i>																	
54538	HB.30192	Pilot and drift ...		x	x									2	-	2	1
<i>Wheelcase and Fittings</i>																	
36DD/45324	D.13245	Spanner, box, slotted (.437 bar) ...		x	x		2	2			2	2	1	6	2	6	4
54539	HB.29949	Drift ...		x	x									3	-	3	2
54540	HB.30194	Tool, assembling ...		x	x									3	-	3	2
54779	HB.29368	Tool, assembling and withdrawing ...		x	x									2	-	2	1
54780	HB.30967	Tool, withdrawing ...		x	x									2	-	2	1
54781	HB.30981	Pilot bush ...		x	x									2	-	2	1
54782	HB.30982	Hand reamer ...		x	x									2	-	2	1
54783	HB.31821	Drift ...		x	x									3	-	3	2
54784	HB.31176	Tool, assembling and withdrawing ...		x	x									3	-	3	2
54785	HB.30983	Pilot bush ...		x	x									2	-	2	1
54786	HB.30984	Reamer ...		x	x									2	-	2	1
54787	HB.30985	Arbor ...		x	x									3	-	3	2
54788	HB.31822	Tool, withdrawing ...		x	x									2	-	2	2
54789	HB.31823	Pilot drift ...		x	x									2	-	2	1
54790	HB.30870	Tool, assembling ...		x	x									2	-	2	1
54791	HB.30871	Bush ...		x	x									2	-	2	1
—	HB.30872A	Bar ...		x	x									2	-	2	1
—	HB.30872B	Bar ...		x	x									2	-	2	1
—	HB.30872C	Bar ...		x	x									2	-	2	1
54793	HB.30873	Adaptor ...		x	x									2	-	2	1
54794	HB.30874	Pilot bush ...		x	x									2	-	2	1
54795	HB.30875	Setting plug ...		x	x									2	-	2	1
54796	HB.30876	Pilot bush ...		x	x									2	-	2	1
54797	HB.30877	Reamer ...		x	x									4	-	4	1
54798	HB.30878	Arbor ...		x	x									2	-	2	1

† Tools common to Merlin engines.

GRIFION ENGINE AND POWER PLANT TOOLS—contd.

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Fuel Pipes</i>																	
—	G.N.9040	Spanner, jaw		—	x	1	3	2	1	4	3	2	1	6	4	6	3
<i>Wheelcase and Fittings</i>																	
54799	HB.30879	Reamer		x	x									4	—	4	2
54800	HB.30880	Arbor		x	x									2	—	2	1
54801	HB.30881	Reamer		x	x									4	—	4	2
54802	HB.30882	Arbor		x	x									2	—	2	1
54803	HB.30883	Pilot bush		x	x									2	—	2	1
70102	HB.32531	Tool, withdrawing		x	x									2	—	2	1
70103	HB.32532	Tool, withdrawing		x	x									2	—	2	1
70104	HB.32533	Tool, withdrawing		x	x									2	—	2	1
<i>Auxiliary Gear Box and Fuel Pump Drive</i>																	
54541	GN.5278	Spanner, box, slotted (.375 bar)		x	x					2	1	1		4	2	4	2
70070	GN.7398	Spanner, box, slotted (.437 bar)		x	x					2	1	1		4	2	4	2
—	GN.6564	Nut, stop		x	x									16	—	16	12
—	KC.209	Setscrew, stop nut		x	x									16	—	16	12
36DD/46536	D.16539	Washer, grover, stop nut		x	x									16	—	16	12
54542	HB.30178	Plate, dogging		x	x									2	—	2	1
54543	HB.30179	Tool, withdrawing		x	x									2	—	2	1
54544	HB.30180	Drift, removing		x	x									3	—	3	2
54545	HB.30181	Tool, assembling		x	x									2	—	2	1
54546	HB.30182	Plate, dogging		x	x									2	—	2	1
54804	HB.31828	Tool, assembling and withdrawing		x	x									2	—	2	1
54805	HB.31829	Tool, assembling		x	x									2	—	2	1
<i>Coolant Pump and Oil Pump Drive</i>																	
54547	HB.30186	Block, vice		x	x									3	—	3	2

<i>Camshaft Drive</i>																	
54552	GN.6601	Spanner, box, slotted		x	x			2	2	2	1	1		6	2	6	3
54548	HB.30195	Tool, assembling and withdrawing		x	—					1	1	1		2	1	2	1
54549	HB.30196	Tool, withdrawing		x	x					1	1	1		2	1	2	1
54550	HB.30197	Tool, withdrawing		x	—					1	1	1		2	1	2	1
54551	HB.30198	Device, holding		x	x					1	1	1		2	1	2	1
54806	HB.30968	Tool, assembling and withdrawing		x	—									2	—	2	1
<i>Starter Drive</i>																	
70030	GN.6618	Spanner, box, slotted		x	—			2	2	2	1	1		6	2	6	3
55084	HB.35435	Tool, withdrawing		x	x									2	—	2	1
<i>Coolant Pump</i>																	
36DD/46440	A.57960	Spanner "C"	†	x	x	1		2	2	2	2	2		6	2	6	2
54553	HB.29950	Block, vice		x	x			1	1	1	1	1		2	1	2	1
54807	HB.31831	Tool, assembling and withdrawing		x	x									2	—	2	1
<i>Oil Relief Valve</i>																	
36DD/38711	F.248	Spanner, ring (1.103 flats)	†	x	x			2	1	2	2	1		4	2	4	2
36DD/6098	E.32514	Spanner, ring (1.303 flats)		x	x			2	1	2	2	1		4	2	4	2
36DD/38251	HB.16572	Tool, lapping	†	x	x			1	1	1	1	1		3	1	3	2
<i>Magneto Drive and Fittings</i>																	
54555	HB.30193	Tools, holding and spanner		x	x			2	1	2	2	1		4	2	4	2
36DD/5037	E.38660	Extractor	†	x	x			2	1	2	1	1		4	2	4	2
36DD/5036	E.32722	Screw, extractor	†	x	x			2	1	2	1	1		4	2	4	2
<i>Automatic Timing Device</i>																	
36DD/51067	A.57915	Spanner, box, slotted (.375 bar)		x	x			1	1	2	2	1		4	2	4	2
54556	GN.2618	Pin, setting		x	x			2	1	2	2	1		4	2	4	2
54557	GN.5293	Plate		x	x					2	1	1		3	2	3	2
54558	HB.30187	Block, vice		x	x					1	1	1		2	1	2	2
54559	HB.30188	Block, vice		x	x					1	1	1		2	1	2	2
54560	HB.30266	Tool, compressing and timing		x	x			2	1	2	2	1		3	2	3	2
<i>Camshaft and Rocker Mechanism</i>																	
54502	GN.3403 (Assy.)	Spanner, tappet adjusting		x	x	1	3	2		4	3	2	2	10	4	8	6

† Tools common to Merlin engines.

Reference No.	Part No.	Description	See footnote	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships
				Grifton II	Grifton VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Camshaft and Rocker Mechanism—contd.</i>																	
54562	GN.6514	Spanner, peg ...		x	x		2	2		2	2	1	1	4	2	4	2
—	GN.6515	Peg (2 off) ...		x	x		2	2		2	2	2	2	4	2	4	2
36DD/5032	E.45983	Gauge, feeler (.020 thick) ...	†	x	x	2	4	3		4	3	2	2	12	4	8	6
54845	GN.7470	Gauge, feeler (.004 thick) ...		x	x		4	3		4	3	2	2	12	4	8	6
54846	GN.7471	Gauge, feeler (.015 thick) ...		x	x		4	3		4	3	2	2	12	4	8	6
36DD/60114	D.24663	Gauge, feeler (.010 thick) ...		x	x	2	4	3		4	3	2	2	12	4	8	6
54561	HB.29365	Tool, withdrawing ...		x	x					1	1	1	1	2	1	2	1
55085	HB.30244	Tool, withdrawing ...		x	x					1	1	1	1	2	1	2	1
54808	HB.31812	Tool, assembling ...		x	x									2	—	2	1
54809	HB.31813	Tool, withdrawing ...		x	x									2	—	2	1
54810	HB.31814	Drift for removing ...		x	x									4	—	4	2
54811	HB.31917	Reamer ...		x	x									2	—	6	4
<i>Tachometer Drive</i>																	
70022	HB.31830	Tool, withdrawing ...		x	x					1	1	1		2	1	2	1
<i>Reduction Gear</i>																	
36DD/32360	E.37161	Eye, slinging ...		x	x		1	1		2	2	1		6	2	6	2
54861	HB.31356	Tool, withdrawing ...	†	x	x		2	1		2	2	1		4	2	4	2
55086	HB.29939	Spanner, box, slotted ...		x	x		2	2		2	2	2		6	2	6	4
55087	HB.29940	Spanner, box, slotted ...		x	x		2	2		2	2	2		6	2	6	4
36DD/46959	HB.26176	Tool, ratchet, turning ...		x	x		1	1		1	1	1		2	1	2	1
54563	HB.29375	Tool, withdrawing ...	†	x	x					1	1	1		2	1	2	1
54564	HB.29376	Tool, assembling ...		x	x					1	1	1		2	1	2	1
54565	HB.29703	Tool, assembling ...		x	x					1	1	1		2	1	2	1
—	HB.19793	Tool, turning ...		x	x		1	1	1	2	1	1		2	1	2	1
54566	HB.29704	Tool, withdrawing ...		x	x					1	1	1		2	1	2	1
54567	HB.29705	Tool, withdrawing ...		x	x					1	1	1		2	1	2	1

54568	HB.29706	Tool, assembling and withdrawing ...		x	x		1	1		1	1	1		2	1	2	1
54569	HB.29707	Drift ...		x	x		1	1		1	1	1		2	1	2	1
54570	HB.29708	Gauge, alignment ...		x	x		1	1		1	1	1		2	1	2	1
54812	HB.30189	Tool, withdrawing ...		x	x									2	—	2	1
54813	HB.30239	Tool, withdrawing ...		x	x									2	—	2	1
54814	HB.30240	Tool, withdrawing ...		x	x									2	—	2	1
54815	HB.30241	Tool, withdrawing ...		x	x									2	—	2	1
54816	HB.30242	Tool, withdrawing ...		x	x									2	—	2	1
54817	HB.30243	Tool, withdrawing ...		x	x									2	—	2	1
54818	HB.30246	Tool, assembling and withdrawing ...		x	x									2	—	2	1
55075	HB.31851	Gauge, surface testing ...		x	x									1	—	1	1
54859	HB.32184	Distortion, checking device ...		x	x		1	1	1	1	1	1	1	2	1	1	1
55077	HB.29585	Reaming fixture ...		x	x									1	—	1	1
55078	HB.22805	Hand reamer, standard ...		x	x									3	—	3	3
55079	HB.31845	Hand reamer, .005-.020 o/size ...		x	x									3	—	3	3
55080	HB.31846	Setting gauge, .005 o/size ...		x	x									1	—	1	1
55081	HB.31847	Setting gauge, .010 o/size ...		x	x									1	—	1	1
55082	HB.31848	Setting gauge, .015 o/size ...		x	x									1	—	1	1
55083	HB.31849	Setting gauge, .020 o/size ...		x	x									1	—	1	1
—	HB.34898	Drift ...		x	x									2	—	2	1
—	HB.34899	Tool, withdrawing ...		x	x									2	—	2	1
<i>Priming Pipes</i>																	
36DD/44540	A.59777	Spanner ...	†	x	x	1	2	2	1	2	2	2	1	6	2	6	4
<i>Induction Pipes</i>																	
54572	GN.2066	Spanner, "C" ...		x	x		2	2		2	2	1		4	2	4	2
<i>Coolant Connections</i>																	
54573	A.59077	Spanner "C" ...		x	x	1	2	2		2	2	1		6	2	6	2
<i>Carburettor</i>																	
36DD/46508	HB.26769	Device, holding ...	†	x	x		1	1		1	1	1		2	1	2	1
36DD/46509	HB.26770	Drift ...	†	x	x		1	1		1	1	1		2	1	2	1
36DD/46510	HB.26771	Lapping tool ...	†	x	x		1	1		1	1	1		2	1	2	1
36DD/46511	HB.26772	Gauge, blueing... ...	†	x	x		1	1		1	1	1		1	1	1	1
36DD/46512	HB.26773	Lapping tool ...	†	x	x		1	1		1	1	1		2	1	2	1
36DD/46513	HB.26774	Tool, fitting and removing ...	†	x	x		1	1		1	1	1		2	1	2	1
36DD/52982	J.27917	Adaptor, jet needle recorder ...	†	x	x	1	1	1		1	1	1		2	1	2	1

† Tools common to Merlin engines.

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36HH—contd.																	
<i>Carburettor—contd.</i>																	
36DD/44534	J.29972	Jet needle recorder	†	x	x	1	1	1		1	1	1		2	1	2	1
36DD/38800	J.22084	Enrichment capsule test rig	†	x	x	1	1	1		1	1	1		2	1	2	1
<i>Fuel Pump</i>																	
36DD/37895	E.30142	Spanner, union, .875-in. B.S.F.		x	x	1	2	2		3	2	2		6	3	6	4
<i>Supercharger</i>																	
36DD/5002	E.7342	Bar, tommy (.1875 diameter × 3.250 length)	†	x	x	2	4	3	3	6	4	3	3	12	6	10	8
36DD/18005	E.45135	Spanner, "C"	†	x	x	1	2	1		2	1	1		6	2	6	2
54575	HB.28848	Block, vice		x	-		2	1		2	2	1		3	2	2	2
54576	HB.29366	Tool, withdrawing		x	x		1	1		1	1	1		3	1	2	1
54577	HB.30183	Block, vice		x	-					1	1	1		2	1	2	1
54578	HB.30184	Block, vice		x	x					1	1	1		2	1	2	1
54579	HB.30185	Block, vice		x	-					1	1	1		2	1	2	1
70032	HB.29367	Tool, assembling and withdrawing		x	x					1	1	1		2	1	2	1
54821	HB.28255	Hand reaming fixture		x	x									1	-	1	1
54822	HB.28259	Arbor		x	x									2	-	2	2
54823	HB.28258	Hand reamer, standard		x	x									3	-	3	2
54824	HB.31832	Hand reamer, .005 o/size		x	x									3	-	3	2
54825	HB.31833	Hand reamer, .010 o/size		x	x									3	-	3	2
70034	GN.7615	Spanner, box, slotted		x	x									3	-	3	2
—	GN.8222	Spanner, box, slotted (Mod. 45)		x	x									4	-	4	2
—	HB.35251	Block vice		-	x					1	1	1		2	1	2	1
—	HB.35248	Block rotor shaft		-	x					1	1	1		2	1	2	1
—	HB.35250	Block		-	x					1	1	1		2	1	2	1

<i>Supercharger Drive</i>																	
70044	GN.6756	Spanner, box (.250 nuts)		x	x												
54826	HB.31188	Blueing gauge		x	x									6	-	6	4
54827	HB.31189	Blueing gauge		x	x									1	-	1	1
54828	HB.31190	Blueing gauge		x	x									1	-	1	1
54829	HB.31191	Blueing gauge		x	x									1	-	1	1
54834	HB.31824	Tool, assembling and withdrawing		x	x									1	-	1	1
54835	HB.31825	Tool, assembling and withdrawing		x	x									2	-	2	1
54836	HB.31826	Tool, withdrawing		x	x									2	-	2	1
54837	HB.31827	Tool, withdrawing		x	x									2	-	2	1
70050	HB.32543	Vice block		x	x									2	-	2	1
—	HB.34500	Tool, assembling		x	x									2	-	2	1
—	HB.34501	Tool, withdrawing		x	x									2	-	2	1
<i>Automatic Boost Control</i>																	
36DD/42821	D.10461	Spanner, box	†	x	x	1	2	1		2	2	2	1	6	2	6	4
54580	GN.5308	Spanner, box, slotted (.375 bar)		x	x		1	1		2	1	1		3	2	3	2
36DD/6054	E.30860	Spanner, box, slotted (.375 bar)		x	x		1	1		2	1	1		3	2	3	2
54581	HB.30190	Block, vice		x	x					1	1	1		3	2	3	2
54582	HB.30191	Tool, withdrawing		x	x					1	1	1		2	1	2	1
54840	HB.31818	Pilot and drift for assembling		x	x					1	1	1		2	1	2	1
54841	HB.31819	Tool, withdrawing		x	x									2	-	2	1
54842	HB.31820	Tool, withdrawing		x	x									2	-	2	1
70074	HB.32530	Tool, assembling		x	x									2	-	2	1
70002	HB.29941	Gauge, setting		x	x									4	-	4	2
<i>Constant Speed Unit Drive</i>																	
54852	GN.7769	Spanner, jaw		x	x	1	2	2	2	3	2	2	2	6	3	6	4

† Tools common to Merlin engines.

GRIFTON II POWER PLANT TOOLS.

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Reference No.	Part No.	Description	See foot-note	Engines			Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Grifton II	Grifton VI						Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
SECTION 56DD																		
<i>Installation Tools</i>																		
5971	WM.96	Spanner, 2 B.A. socket ...	†	x	-	1	3	2		6	4	2	2	8	6	6	4	
36HH/70208	J.659	Spanner, jaw, 1/4-in. B.S.F. ...	†			Allowance under Engine Tools.												
22515	RR.0273	Spanner, special 1/4-in. B.S.F. ...	†	x	-	1	2	2		4	3	2	1	6	4	4	3	
36HH/70227	WS.1011	Spanner, jaw, 5/16-in. B.S.F. ...	†			Allowance under Engine Tools.												
36HH/70229	WST.1112	Spanner, jaw, 3/8-in. B.S.F. ...	†			Allowance under Engine Tools.												
36DD/	F.6392	Spanner, jaw, 3/4-in. B.S.F. ...	†			Allowance under Engine Tools.												
36DD/6128	E.32512	Spanner, jaw, 1-in. B.S.F. ...	†	x	-	1	2	2		4	3	2	1	6	4	4	3	
5X/1564		Wrench, strap ...	†	x	-	1	2	2		6	4	2	1	8	6	6	4	
36HH/70207	4 P.O.	Screwdriver, 0.3-in. blade ...	†			Allowance under Engine Tools.												
36HH/70243	12 P.O.	Screwdriver, 0.5-in. blade ...	†			Allowance under Engine Tools.												
36HH/70240	No. 87	Cutters, side ...	†			Allowance under Engine Tools.												
36HH/70210	M.60	Extension ...	†			Allowance under Engine Tools.												
36HH/70211	M.70L	Ratchet ...	†			Allowance under Engine Tools.												
36HH/70212	MU.8	Universal ...	†			Allowance under Engine Tools.												
<i>Service Maintenance Tools</i>																		
5940	RR.0250-6	Spanner, header tank cap ...	†	x	-	1	2	1		2	2	1	1	3	2	3	2	
5941	RR.0264	Key, 0.5-in. square, radiator drain ...	†	x	-	1	3	2		4	3	2	1	6	4	4	3	

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36HH/70226	WS.103	Spanner, universal box, 1/2-in. B.S.F. ...	†			Allowance under Engine Tools.											
36HH/70219	WF.101	Spanner, universal box, 3/8-in. B.S.F. ...	†			Allowance under Engine Tools.											
36HH/70221	WM.96A	Spanner, universal box, 2 B.A. ...	†			Allowance under Engine Tools.											
36DD/6108	E.30139	Spanner, jaw, 7/16-in. x 1/2-in. B.S.F. ...	†			Allowance under Engine Tools.											
36HH/70199	F.11	Extension ...	†			Allowance under Engine Tools.											
36HH/70198	F.8	Universal ...	†			Allowance under Engine Tools.											
36HH/70190	A.2	Adaptor ...	†			Allowance under Engine Tools.											
36HH/70191	A.3	Adaptor ...	†			Allowance under Engine Tools.											
36HH/70200	F.70N	Ratchet... ...	†			Allowance under Engine Tools.											
<i>Workshop Overhaul Tools</i>																	
5956	WM.92	Spanner, 6 B.A., socket ...	†	x	-	4	2			6	4	3		8	6	6	4
36HH/70234	XI.1618	Spanner, 4 B.A., ring ...	†			Allowance under Engine Tools.											
36HH/70217	WF.99	Spanner, box, 1/4-in. B.S.F. ...	†			Allowance under Engine Tools.											
36HH/70192	C.1415	Spanner, jaw, 6 B.A. ...	†			Allowance under Engine Tools.											
36HH/54503	GN.2748	Spanner, special jaw, 3/8-in., B.S.F. ...	†			Allowance under Engine Tools.											
36HH/70228	WS.1516	Spanner, jaw, 5/16-in. x 5/8-in., B.S.F. ...	†			Allowance under Engine Tools.											
22514	RR.0263	Spanner, jaw, 1 3/8-in., B.S.F. ...	†	x	-	3	2			4	3	2		6	4	4	3
5X/-	Z.18147-1	Spanner, special, breeze ...	†	x	-	3	2			4	3	2		6	4	4	3
5K/-	Type K	Expander sleeve, Hellerman ...	†	x	-	4	2			4	4	2		4	4	4	4
<i>Workshop Repair Tools</i>																	
22502	RR.0256/56	Drift, tube ...	†	x	-	-	-	-		-	-	-		2	-	1	1
22503	RR.0256/55	Drift, tube ...	†	x	-	-	-	-		-	-	-		2	-	1	1

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† When tools, shown ‡, are not available "in toto" for a service, the tools shown in the Supplementary Appendix herewith will be available for supply as alternatives.

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Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 L.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 56DD—contd.																	
<i>Workshop Repair Tools—contd.</i>																	
22504	RR.0256/41	Drift, tube ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22505	RR.0256/40	Drift, tube ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22506	RR.0256/34	Drift, tube ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22507	RR.0256/17	Drift, tube ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22508	RR.0257/55	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22509	RR.0257/54	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22510	RR.0257/40	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22511	RR.0257/33	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22512	RR.0257/24	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
22513	RR.0257/17	Clamp, sleeve ...		x	-	-	-	-	-	-	-	-	-	2	-	1	1
-	-	Rig-end facing for tubes, 1/2-in. — 1 1/2-in. o/d		x	-	} To be made up locally by services. See A.P. 1464, Vol. I.											
-	-	Rig-end facing for tubes 1 1/2-in. — 2 1/2-in. o/d		x	-												
-	RR.0262	Block drift ...		x	-									1	-	1	1
-	RR.0155/1	Jig engine mounting repairs ...		x	-									1	-	1	1
-	RR.0155/2	Stand for repair jig ...		x	-												
Class 41 T-3093-40	}	Tools, Dzus fasteners (sets) ...		x	-		3	2		3	2	1	1	4	3	3	2
-		Tool, fastener spring straightening—to be made up by services.		x	-		AR	AR		AR	AR	AR	AR	AR	AR	AR	AR
-		Tool, fastener spring straightening (see Fig. 1 of Sec. 2, Chap. 1, A.P. 2233A, Vol. II, Part III.		x	-		AR	AR		AR	AR	AR	AR	AR	AR	AR	AR
22501	RR.0160/1	Engine mounting checking jig ...	*	x	-		-	-		1	-	-	-	2	1	1	1
22517	RR.0176/1	Transit case for jig ...	*	x	-		-	-		1	-	-	-	2	1	1	1

* It is emphasised that great care should be exercised when handling and packing the jigs, as they are susceptible to distortion if subjected to rough treatment.

SUPPLEMENTARY APPENDIX

Reference No.	Part No.	Description	See foot-note	Engines		Squadrons per 6 L.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Re-pair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
SECTION 36DD—contd.																	
<i>Standard Tools</i>																	
6014	E.9048	Bar, tommy, .312-in. x 4.750-in. ...	†	x	x	2	4	3	3	6	4	3	3	12	6	10	8
5004	E.7658	Bar, tommy, .250-in. x 3.625-in. ...	†	x	x	2	4	3	2	6	4	3	3	12	6	10	8
5010	E.32725	Spanner, box, 3 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
5012	E.16114	Spanner, box, 2 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
5014	E.16115	Spanner, box, .250-in. B.S.F. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
37013	E.47766	Spanner, box, 1 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
18112	E.47994	Spanner, box, .312-in. B.S.F. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6124	F.51935	Spanner, jaw, .437-in. B.S.F. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6126	F.6371	Spanner, jaw, .750-in. x .625-in. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6118	F.51961	Spanner, jaw, 3 B.A. ...	†	x	x	1	2	2	1	4	3	2	2	8	4	6	4
5016	F.51962	Spanner, jaw, 2 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6120	F.51963	Spanner, jaw, 1 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
5018	F.51964	Spanner, jaw, .250-in. B.S.F. ...	†	x	x	1	2	2	1	4	3	2	2	8	4	6	4
5020	F.51933	Spanner, jaw, .312-in. B.S.F. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6074	E.16113	Spanner, box, .375-in. B.S.F. ...	†	x	x	1	2	2	1	4	3	2	2	10	6	8	6
5022	F.51936	Spanner, jaw, .500-in. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6078	E.56597	Spanner, box, .500-in. B.S.F. ...	†	x	x	1	2	2	1	4	3	2	2	8	4	6	4
6122	F.51934	Spanner, jaw, .375-in. B.S.F. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6080	E.11904	Spanner, box, .625-in. B.S.F. ...	†	x	x	1	2	2	1	4	3	2	2	10	6	8	6
6116	F.51960	Spanner, jaw, 5 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
37064	D.12692	Spanner, jaw, 1 B.A. x 3 B.A. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
6112	E.30138	Spanner, jaw, .711-in. ...	†	x	x	1	4	3	2	6	4	2	2	10	6	8	6
46948	D.17368	Spanner, jaw, for exhaust flange nuts ...	†	x	x	1	3	2	2	4	3	2	2	10	4	8	6
44219	D.11992	Spanner, universal, 2 B.A., carburettor nuts ...	†	x	x	1	2	2	1	3	2	2	1	8	3	6	4
44222	T.6	Spanner, box, for supercharger, carburettor nuts.	†	x	x	1	2	2	1	3	2	2	1	8	3	6	4
44220	D.11995	Spanner, box, 2 B.A., carburettor nuts ...	†	x	x	1	2	2	1	3	2	2	1	8	3	6	4

† Tools common to Merlin engines.

(66685) Wt. 8153/2290 11,000 3/44 Hw. G.338/10.

Reference No.	Part No.	Description	See footnote	Engines		Squadrons per 6 I.E. Aircraft	Fleet and Light Fleet Carriers	Escort Carriers	M.A.C. Ships	R.N. Air Stations				R.N. Aircraft Repair Yards			Repair Ships
				Griffon II	Griffon VI					Class A	Class B	Class C	Class D and E	Class A	Class B Normal	Class B Special	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
		NAVAL SUBHEAD B.11															
		<i>Standard Tools—contd.</i>															
2389		Screwdriver, 5-in. × $\frac{3}{8}$ -in. ...	†	x	x	1	4	3	2	4	3	2	2	10	4	8	6
665		Screwdriver, 8-in. × $\frac{1}{2}$ -in. ...	†	x	x	1	3	2	2	4	2	2	2	8	4	6	4
867		Pliers, lightweight ...	†	x	x	1	4	2	2	4	3	2	2	10	4	8	6
8016		Cutters, diagonal ...	†	x	x	1	4	2	2	4	3	2	2	10	4	8	6
8011		Hammer, hide, 1-lb. ...	†	x	x	1	4	2	2	4	3	2	2	10	4	8	6
		<i>Power Plant Tools</i>															
8036		Spanner, box, 4 B.A. × 6 B.A. ...		x	x	—	4	2	2	6	4	3	2	8	6	6	4
8044		Spanner, jaw, 3 B.A. × 5 B.A. ...		x	x	2	4	3	2	6	4	2	2	10	6	8	6
4343		Spanner, jaw, 4 B.A. ...		x	x	—	4	3	2	6	4	2	2	10	6	8	6
8045		Spanner, jaw, 6 B.A. × 8 B.A. ...		x	x	2	4	3	2	6	4	2	2	10	6	8	6

† Tools common to Merlin engines.

(A.F.Os. 2460/43 and 5519/43 are cancelled.)