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AIR MINISTRY

June, 1947.

Amendment List No. 4 to
AIR PUBLICATION 4121A and B
Volume III, Part I
1st Edition.
(Complete in 12 Sheets)

GOBLIN ENGINE

SCHEDULE OF SPARE PARTS

NOTES :—Numerical indices are to be altered where necessary. Items that are to be inserted in groups or added as separate items are to be placed in their alphabetical sequence.

Instructions for embodying this Amendment List.

- (1) See that the previous A.L. has been embodied.
- (2) Undo the binder and lift out the pages to allow the insertion of new pages.
- (3) Embody the A.L. in ink or by cutting out slips and gumming them into the Schedule. Add the number of this A.L. to each item altered.
- (4) Sign the Amendment Certificate which is at the front of the Vol. III.

Page 1

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 168

TAIL PIPE FIRE GUARD

47	407	21975	Amend the Ref. No. and Part No. to read 1843 and 22887 respectively. Alter the group details as follows :—
47	—	21638	Amend Part No. to read 22886

AUTHORITY :—Modifications Goblin 181 and 191

COMBUSTION CHAMBERS

29	703	22253	} Amend the Ref. No. and Part No. to read :—
	702	22064*	
	1855	23144	}
	1848	23075*	
			and alter the Group details as follows :—
—		21669/1	Delete this item
			Add :—
—		23184	Scoop and Colander with Igniter Plug 1 Group (See Ref. No. 1853)

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
	—	21678	Add “ (Used only in Group Ref. No. 1848) ” to Nomenclature Add :—			
	—	23023	Tube, flame, with Igniter Plug, group ... (See Ref. No. 1860) (For use with Group Ref. No. 1855)	1	—	
30	705 3730	22256 22067*	} Amend the Ref. No. and Part No. to read :— } and alter the Group details as follows :—			
	1858 1851	23147 23078*				
	—	21670	Delete this item Add :—			
30	—	23183	Scoop and colander, group ... (See Ref. No. 1854)	1	—	
	—	21666	Add the note “(Used only in Group Ref. No. 1851)” to Nomenclature Add :—			
	—	23022	Tube, flame, group (See Ref. No. 1861) (For use with Group Ref. No. 1858)			
30	711 710	22254 22065*	} Amend the Ref. No. and Part No. to read :— } and alter the Group details as follows :—			
	1856 1849	23145 23076*				
	—	21670	Delete this item Add :—			
	—	23183	Scoop and colander, group ... (See Ref. No. 1854)	1	—	
	—	21666	Add the note “(Used only in Group Ref. No. 1849)” to Nomenclature Add :—			
	—	23022	Tube, flame, group (See Ref. No. 1861) ... (For use with Group Ref. No. 1856)	1	—	
31	715 714	22255 22066*	} Amend the Ref. No. and Part No. to read :— } and alter the Group details as follows :—			
	1857 1850	23146 23077*				
	—	21670	Delete this item Add :—			
	—	23183	Scoop and colander, group ... (See Ref. No. 1854)	1	—	
	—	21666	Add the note “(Used only in Group Ref. No. 1850)” to Nomenclature			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
			Add :—			
	—	23022	Tube, flame, group (See Ref. No. 1861) ... (For use with Group Ref. No. 1857)	1	—	
31	706 719	22257 22068*	} Amend the Ref. No. and Part No. to read :—			
	1859 1852	23148 23079*				
			and alter the Group details as follows :—			
	—	21670	Delete this item			
			Add :—			
	—	23183	Scoop and colander, group (See Ref. No. 1854)	... 1	—	
	—	21666	Add the note "(Used only in Group Ref. No. 1852)" to Nomenclature			
			Add :—			
	—	23022	Tube, flame, group (See Ref. No. 1861) ... (For use with Group Ref. No. 1859)	1	—	
34	750	21670	Amend the Ref. No. and Part No. to read 1854 and 23183 respectively. Amend the Group details as follows :—			
	—	21679	Alter the Part No. to 23178			
	—	21675 21977/1	} Alter the Part No. to read 23070			
			Add :—			
		23049	Piece, stiffening ...	1	DTD. 328 or Nimonic 75	
34	754	21669/1	Amend the Ref. No. and Part No. to read 1853 and 23184 respectively.			
			Amend the Group details as follows :—			
		21680	Alter the Part No. to 23179			
		21675 21977/1	} Alter the Part No. to read 23070			
			Add :—			
	—	23049	Piece, stiffening ...	1	DTD. 328 or Nimonic 75	
35	758	21666	Alter the Ref. No. and Part No. to read :—			
	1861 758	23022 21666*	}			
			Amend the Group details as follows :—			
	21055 21671		} Add the note "(Used only in Group Ref. No. 758)" to Nomenclature			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.	
Add :—							
		23045	Tube, flame, centre section (Used in Group Ref. No. 1861)	... 1	DTD. 328 or Nimonic 75		
		22685	Tube, flame, rear section (Used in Group Ref. No. 1861)	... 1	DTD. 328 or Nimonic 75		
35	764	21678	Alter the Ref. No. and Part No. to read :—				
	1860	23023	}				
	764	21678*					
Amend the Group details as follows :—							
	21055	21671	} Add the note “ (Used in Group Ref. No. 764) ” to Nomenclature				
	21671						
Add :—							
		23045	Tube, flame, centre section (Used in Group Ref. No. 1860)	... 1	DTD. 328 or Nimonic 75		
		22685	Tube, flame, rear section (Used in Group Ref. No. 1860)	... 1	DTD. 328 or Nimonic 75		

AUTHORITY :—Modification Goblin 176

CENTRE CASING

93	1815 1756	N.2536 N.2273	} Delete these items		
			Add :—		
93	1909	N.664	Nut, cap, for banjo pillar, for fuel tank pressurisation and cabin sealing connections	2	S. 1
93	1877	N.2391	Pillar, banjo, for fuel tank pressurisation and cabin sealing connections	2	S. 1

AUTHORITY :—Modification Goblin 178

ACCESSORY BOX TOP

Add :—						
84	1873	23005		Shim, packing, for engine speed generator	1	L. 16 C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 180

MAIN SHAFT

15	426	15361/5-W	} Add an asterisk adjacent to the Part No. and add “(For use only in Group Ref. No. 442)” to Nomenclature
	428	15361/5-X	
	430	15631/5-Y	
	432	15361/5-Z	

Add :—

15	1875	22715	Bolt , for turbine disc 8 S. 11 (For use in Group Ref. No. 1876)
----	------	-------	---

15	442	21058/2	Alter the Ref. No. and Part No. to read :—
----	-----	---------	--

	1876	22713	}
	442	21058/2*	

and amend the Group details as follows :—

15361/5-W	}	Add the note “(For use only in Group Ref. No. 442)” to Nomenclature
15361/5-X		
15361/5-Y		
15361/5-Z		

Add :—

22715	Bolt	for turbine disc (See Ref. No. 1875)	8	S. 11
		(For use in Group Ref. No. 1876)		

AUTHORITY :—Modification Goblin 186

FUEL VALVE CONTROL

58	1062	20486	Alter the Ref. No. and Part No. to read 1874 and 23102 respectively and amend the Group details as follows :—
		15896	Alter the Part No. to read 23104 and Material Specification to S. 21
		17412	Alter the Part No. to read 22103 and Material Specification to S. 84

AUTHORITY :—Modification Goblin 177

**CABIN SUPERCHARGER AND DRIVE
CLUTCH**

96(a)	9	—	Alter the Ref. No. to read 11
	7	22691	} Alter the Ref. No. and Part No. to read 1871 and 22999 respectively and alter the Group details as follows :—
	1835	22708	
	—	22538	Delete this item
			Add :—
		22933	Cone, sliding inner clutch, group ... 1 (See Ref. No. 1872)

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
96(b)	1807	22538	Alter the Ref. No. and Part No. to read 1872 and 22933 respectively and alter the Group details as follows :—			
—	—	22529	Alter the Part No. to read 22932			
—	—	17942	Delete this item			
			Add :—			
—	—	22931	Plug, for spring holder	1	S. 1	
—	—	N.1865	Screw, grub	2	S. 1	

AUTHORITY :—Modification Goblin 187

FUEL VALVE CONTROL

57	788	N.2228	} Delete these items			
58	1070	N.2365				
			Add :—			
59	—	AGS.949B	Union, drain, fuel dump valve (Section 28V/7623)	1	—	C.
59	1106	N.1472	Alter No. off from 2 to 1 and delete "banjo" from Nomenclature			
75	720	19468A	Delete this item			

Miscellaneous Alterations and/or Corrections

Add note "Not supplied with complete engine" to nomenclature of the following items :—

63	—	—	Starter Assembly			
155	—	—	Starter Assembly			
67	}	1201	21497	Pipe, Oil Feed, for Compressor, Group		
		1207	20457	Pipe, Oil Feed, for Starter, Group		
		196	20676	Pipe, Oil Feed, for Vacuum Pump		
		1004	N.2240	Banjo, for vacuum pump		
		1002	N.2278	Bolt, banjo, starter and vacuum pump		
69	36FF/21244	1406-42	Washer, for starter and vacuum pump feed pipe			
76	1310	N.1975	Union, oil drain, for hydraulic pump			
95	—	—	Generator Drive Coupling Assembly			
63	1181	20797	Delete the Ref. No. and to nomenclature add :— " (Section 37F/4501) "			
88	1564	—	Delete this Group			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Add :—						
88	1564	20879	Coupling, Starter, Group (For Rotax Starter Type C.3804) consisting of :—	1	—	B.
		N.25124	Bearing, wide (Hoffman No. 125)	1	—	
		N.25496	Bearing, narrow (Hoffman No. L25N)	1	—	
		N.27524	Bush, screwed	1	Brass	
		N.25315	Jaw, starter	1	Steel	
		N.27508	Housing, coupling	1	Alum.	
		N.25367	Liner, bearing	1	Steel	
		N.26632	Nut, pinion	1	St. St.	
		N.794	Pin, locking	1	M.S.	
		19648A N.25318	Pinion, starter drive	1	Steel	
		N.25313	Spacer, bearing	1	Steel	
		AGS.884B	Stud, oil jet pipe	2	—	
		N.27509	Stud, long, starter fixing	7	Steel	
		N.27510	Stud, short, starter fixing	1	Steel	
		N.26631	Washer, tab, pinion nut	1	—	
61	1833	22570	Amend Group details as follows :—			
			Alter :—			
			Pump, fuel, Dowty Type A.260Y Mk. II (See Ref. No. 1149)			
			to read :—			
			Pump, fuel, Dowty Type A.260Y Mk. II (See Ref. No. 36MM/23)			
62	1149	—	Alter Ref. No. to read 36MM/23			
19	547	—	Amend the Group details as follows :—			
		13589/6 22801 22802 17155 13576	Delete these items			
			Add :—			
		22771	Tube, support and housing, for overload oil pressure valve, group (See Ref. No. 1879)	1		
21	601	—	Amend the Group details as follows :—			
			Alter :—			
			Filter, housing and support, overload oil pressure valve, group (See Ref. No. 546)			
			to read :—			
			Filter, housing and support, overload oil pressure valve, group (See Ref. No. 547)			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Add :—						
23	1879	22771	Tube, Support and Housing, for Overload Oil Pressure Valve, Group consisting of :—	1	—	B.
		†	Gauze, 120 mesh × 42 S.W.G. ...	...	As Reqd. Copper or Brass	
		13589/6	Housing, support tube ...	1	S. 1	
		17155	Rivet ...	1	L. 1	
		22801	Sleeve, support tube ...	1	Brass	
		22802	Sleeve, support tube ...	1	Brass	
		13576/1	Tube, support ...	1	DTD. 5A	
ix		—	Delete this page and add Revised Pages ix and x introduced and issued with this Amendment			
151	1772	—	} Delete these items. (These parts are now called for under rewritten Fuel System introduced and issued with this Amendment			
152	4244	21772A				
.....						
28	693	22260	Correct Part No. to read 22250			
29	703	22253	} Amend the Group details as follows :—			
	702	22064*				
—	—	22260	Correct Part No. to read 22250			
31	715	22255	} Amend the Group details as follows :—			
	714	22066*				
—	—	22251	In Nomenclature alter (See Ref. No. 714) to read (See Ref. No. 715)			
99	} 536	7070/173	Correct Part No. to read Y.7070/173			
181						
97	†	AGS.597B	Alter No. off to 11.			
8	231	21455	Alter No. off from 1 to 2			
84	1511	21131	Alter No. off to 6			
Add :—						
44	—	AS.465/505	Rivet , for outer cone front flange ...	116	Monel Metal	C.
V	—	—	In “ Notes ” for item 2 correct to read item 11			
151	3078	22028	Correct Part No. to read 22082			
97	—	6A.13L	Correct Part No. to read 6A1—3L			
97	—	AGS.597	Correct Part No. to read AGS.597A			
61	1833	—	Amend the Group details as follows :—			
	—	RE/SD	Correct Part No. to read RD/SD and alter nomenclature from (See Ref. No. 1157) to (See Ref. No. 1058)			
	—	RE/SC	Correct Part No. to read RC/SC			
62	1157	RE/SD	Correct Part No. to read RD/SD and Ref. No. to 1058			
62	1159	RE/SC	Correct Part No. to read RC/SC			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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**AUTHORITY :—Modifications Goblin 172,
173, 174, 175**

FUEL SYSTEM

Delete pages 161–162 and insert Fuel System
Assembly issued with this Amendment as
pages 161–162b inclusive

AUTHORITY :—Modification Goblin 186

FUEL VALVE CONTROL

150	1062	20486	Alter the Ref. No. and Part No. to read 1874 and 23102 respectively and amend the Group details as follows :—
		15896	Alter the Part No. to read 23104 and Material Specification to S. 21
		17412	Alter the Part No. to read 23103 and Material Specification to S. 84

AUTHORITY :—Modification Goblin 187

FUEL VALVE CONTROL

149	788	N.2228	{Delete these items
151	1070	N.2365	
Add :—			
151	†	AGS.949B	Union , drain, fuel dump valve 1 — C. (Section 28V/7623)
152	1106	N.1472	Alter No. off from 1 to 2 and delete “ Banjo ” from Nomenclature

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL SYSTEM ASSEMBLY Complete as follows:—					
†	6A1/3E	Bolt, for filter bracket (Section 28D/7000) ...	2	—	—
†	6A1/11E	Bolt, for filter bracket (Section 28D/7032) ...	1	—	—
1220	19262/2	Bracket, for accumulator ...	1	S. 3	B.
1222		Bracket, for Filter, Group ... consisting of:—	1	—	B.
—	20801/1	Boss... ..	4	S. 1	—
—	20802/1	Boss... ..	2	S. 1	—
†	A16Y/EP	Nut, plain, filter stud (Section 28M/756) ...	3	—	—
—	20800A/1	Plate	1	S. 3	—
—	N.856	Stud, filter (See Ref. No. 1264) ...	3	S. 1	—
†	AGS.162D	Washer, spring, for filter nuts ... (Section 28W/3099)	3	—	—
1226	19337/1	Clip, for fuel ring end connection (L.H.) ...	1	S. 84	C.
1228	19338/1	Clip, for fuel ring end connection (R.H.) ...	1	S. 84	C.
1230	19339/2	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " fuel ring connection (L.H.) ...	1	S. 84	C.
1232	19340/1	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " fuel ring connection (R.H.) ...	1	S. 84	C.
1234	19341/1	Clip, for $\frac{5}{16}$ " and $\frac{5}{16}$ " fuel ring connection ...	2	S. 84	C.
1236	19342/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " fuel ring connection (L.H.) ...	1	S. 84	C.
1238	19343/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " fuel ring connection (R.H.) ...	1	S. 84	C.
1240	19344/1	Clip, for $\frac{3}{8}$ " and $\frac{3}{8}$ " fuel ring connection ...	4	S. 84	C.
332	20798	Filter, "Purolator" Type, Group... consisting of:—	1	—	A.
—	20798/1	Filter	1	—	—
†	AGS.950D	Union	1	—	—
—	N.1468	Washer, union (See Ref. No. 1270) ...	1	L. 17	—
†	AGS.1140B	Nipple, blanking, for Pressure Switch Connection ...	1	—	—
†	A.16Y/EP	Nut, plain, for filter bracket (Section 28M/750) ...	4	—	—
†	A16Y/BP	Nut, for flexible pipe clamp bolts ...	1	—	—
†	AGS.904B	Nut, union, pressure switch connection (Section 28F/5722)	1	—	—
†	AGS.166/2	Pin, split, pressure switch connection nut (Section 28P/1203)	1	—	—
1834	22418	Pipe, control box to fuel pump ...	1	Teteflex	B.
1863	22824	Pipe, control box to Governor ...	1	Silvoflex	B.
4480 1868	21002* 22829 }	Pipe, feed to burner ...	12	Silvoflex	B.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1842	22927	Pipe, feed to burner (Nos. 10 and 14) ...	2	Silvoflex	
1844	22916	Pipe, feed to burner (No. 15) ...	1	Silvoflex	B.
4482 1869	21003* 22830	Pipe, feed to burner (No. 16) ...	1	Silvoflex	B.
1866	22827	Pipe, filter to barostat ...	1	Silvoflex	B.
1867	22828	Pipe, pump to filter ...	1	Silvoflex	B.
1870	22831	Pipe, fuel pump to control box ...	1	Silvoflex	B.
1864	22825	Pipe, governor to starting valve ...	1	Silvoflex	B.
1865	22826	Pipe, Governor to Accumulator, Group ...	1	—	—
4490	21645	Pipes, Fuel Ring, Group ... consisting of:—	1	—	B.
	19337/1	Clip, for end connection (L.H.) (See Ref. No. 1226)	1	S. 84	
	19338/1	Clip, for end connection (R.H.) (See Ref. No. 1228)	1	S. 84	
	19339/2	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection (L.H.) (See Ref. No. 1230)	1	S. 84	
	19340/1	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection (R.H.) (See Ref. No. 1232)	1	S. 84	
	19341/1	Clip, for $\frac{5}{16}$ " and $\frac{5}{16}$ " connection (See Ref. No. 1234)	2	S. 84	
	19342/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection (L.H.) (See Ref. No. 1236)	1	S. 84	
	19343/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection (R.H.) (See Ref. No. 1238)	1	S. 84	
	19344/1	Clip, for $\frac{3}{8}$ " and $\frac{3}{8}$ " connection ... (See Ref. No. 1240)	4	S. 84	

FUEL SYSTEM.

162A

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
	19081C	Connection, end, for pipe	2	S. 14 or	
	19082C	Connection, pipe, $\frac{1}{4}$ " and $\frac{5}{16}$ "	2	S. 21 or	
				DTD. 229	
—	19083C	Connection, pipe, $\frac{5}{16}$ " and $\frac{5}{16}$ "	2	S. 14 or	
—	19084C	Connection, pipe, $\frac{5}{16}$ " and $\frac{3}{8}$ "	2	S. 21 or	
—	19085C	Connection, pipe, $\frac{3}{8}$ " and $\frac{3}{8}$ "	6	DTD. 229	
—	19086A	Connection, pipe (inlet)	1	S. 14 or S. 21 or DTD. 229	
—	19090B	Pipe, $\frac{1}{4}$ " dia.	2		—
—	19091B	Pipe, $\frac{5}{16}$ " dia.	4	Bundylin	—
—	19092B	Pipe, $\frac{3}{8}$ " dia.	6	Tube	—
—	19094B	Pipe, $\frac{3}{8}$ " dia., short (L.H.)	1		—
—	19093B	Pipe, $\frac{3}{8}$ " dia., short (R.H.)	1		—
—	AS.455/303	Rivet, for clips (Section 28Q/1919)	24	—	—
360	20282	Pipe, Starting Valve to Dump Valve, Group	1	—	B.
		consisting of:—			
†	AGS.952B	Collar	2	—	
†	AGS.954B	Nut, union... ..	2	—	
—	—	Pipe... ..	1	—	
†	AS.455/303	Rivet , for clips (Section 28Q/1919)	24	—	—
1264	N.856	Stud , for filter	3	S. 1	C.
†	AGS.950D	Union , for filter (Section 28V/)	1	—	—
4244	21772A	Washer , joint, for minimum pressure valve... ..	1	Klingerit	C.
1772	—	*Valve , minimum pressure (Mk. II)	1	—	B.
1846	—	Valve , minimum pressure (Mk. III)	1	—	B.
†	AGS.160D	Washer , plain, for filter and bracket (Section 28W/3072)	2	—	—
1270	N.1468	Washer , for filter union	2	L. 17	C.
†	AGS.162D	Washer , spring, for filter and bracket	6	—	—

FUEL SYSTEM.

Description	No. off	Stores Vocab.	AP, No.
		Sect. No.	

ACCESSORIES.

ix

Description	No. off	Stores Vocab. Sect. No.	AP. No.
Cabin Supercharger , Marshall Type XXII... ..	1	37G	1519 (Section 9)
Compressor , Heywood Type SH6/2	1	37G	1519 (Section 3)
Engine-Speed Indicator Generator	1	6A/1560	1086 (Part 4)
Generator , Type KX 1500 Watt, 24 Volt	1	5U	1086 (Part 3E)
Hydraulic Pump , Lockheed Mk. VI... ..	1	37J	1803
Starter , 24 Volt, Rotax Type C.3801 (Pre Goblin Mod. 18)	1	37F	1181 (Part 1C)
Starter , 24 Volt, Rotax Type C.3804 (Mod. Goblin 18) ...	1	37F	1181 (Part 1C)
Vacuum Pump , Type B3X Mk. II	1	37J	1519 (Section 4)

X

ACCESORIES.

Description	No.	Stores	AP. No.
	off	Vocab. Sect. No.	

AIR MINISTRY
March, 1947

Amendment List No. 3 to
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Page 1

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 124.

Front Casing ; Centre Housing ; Diffuser Casing and Rear Cover.

8	159	15280/5	Alter the reference number to 157 and the part number to 22240
---	-----	---------	--

Main Shaft

17	496	15282/2	Alter the reference number to 497 and the part number to 22129
----	-----	---------	--

AUTHORITY :—Modification Goblin 38

Tail Pipe

41	896	—	Alter the group details as follows :—
----	-----	---	---------------------------------------

42		19660A/5	Alter the part number to 21569
----	--	----------	--------------------------------

42		19606	Delete this part
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Add :—

42		21521	Boss, for thermocouple 4 DTD. 176A
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Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 103						
Fuel Valve Control						
57	1048	19673/1	Alter the reference number to 1049 and the part number to 22028			
57	1033	—	Alter the reference number to 1031 and the group details as follows :—			
		N.843	Delete this item and substitute :—			
		N.3236	Stud for fuel pump connection [... ... 3 S.1 (See Ref. No. 1095)			
59	598	N.843	Alter the reference number to 1095 and the part number to N.3236			
AUTHORITY :—Modification Goblin 90						
Nozzle Ring						
12	324	16439A	Amend the part number to read 16439A* 21936 and alter the group details as follows : }			
		15166/2 16001A }	Delete these items			
12	322	16001A	Delete this item			
AUTHORITY :—Modification Goblin 58						
Main Shaft						
17	488	13512/8	Add an asterisk adjacent to this part number			
17	475	N.503	To the nomenclature of these items add :— " For use only with shaft reference No. 488 "			
17	†	AGS.166/12				
17	502	21492				
17	504	MR.21492-7				
18	512	13822/2				
18	†	AGS.194/10				
			Add the following :—			
17	487	21179	Shaft , centre 1 S.6 B.			
17	†	A.16Y/LS	Nut , slotted for centre shaft studs (Section 28M/774) 12 — —			
17	†	AGS.166/11	Pin , split, for centre shaft stud nuts (Section 28P/1208) 12 — —			
17	501	21579	Stud , for centre shaft 12 S.11 C.			
18	515	N.1101	Washer , for centre shaft nuts 12 S.1 C.			
18	513	N.2911	Washer , lock, for centre shaft nuts 12 S.3 or S.84 C.			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 141

Cabin Supercharger and Drive Clutch

96(a) 2	—	Alter the reference number to 3				
96(a) 4	19153	Alter the reference number to 5, the part number to 19200 and the group details as follows :—				
	21462A	Alter this part number to 20413				
	2106—54	} Delete these items				
	16792A					
		Add :—				
	20414	Seal, oil, for control valve (See Ref. No. 1805)	1	—		
	20415	Valve, control (See Ref. No. 1806) . . .	1	S.1		
	20416	Retainer, for oil seal (See Ref. No. 1847)	1	L.1		
96(c) 1786	2106—54	Alter the reference number to 1805 and the part number to 20414				
96(c) 1785	16792A	Alter the reference number to 1806 and the part number to 20415				
		Add :—				
96(c) 1847	20416	Retainer , for oil seal	1	L.1		B.

AUTHORITY :—Modification Goblin 106

Cabin Supercharger and Drive Clutch

96(c) 1798	13706	Alter the reference number to 1752 and the part number to 21837				
96(c) 1781	16782	Delete this item and substitute :—				
96(c) 1751	21838	Shaft , driving, for clutch	1	S.28		B.
96(a) 3	—	Alter the reference number to 8				
96(a) 5	19200	Alter the reference number to 6, the part number to 22127, and the group details as follows :—				
	16782	Delete this item and substitute :—				
	21838	Shaft, driving, for clutch (See Ref. No. 1751)	1	S.28		

AUTHORITY :—Modification Goblin 95

Transportation Parts

Delete page 97 and insert rewritten sheet issued with this amendment list as page 97

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 107						
Main Shaft						
15	442	21058	To the group details add :—			
		21302†	Disc, turbine	—	D.H.E.205	
AUTHORITY :—Modification Goblin 94 and 169						
Centre Casing						
Add the following :—						
93	1755	N.2529	Ferrule , for cabin sealing connection ...	1	L.1	C.
93	164	N.2760	Plug , blanking, cabin air supply connection...	7	L.1	C.
93	1756	N.2273	Screw , banjo, for cabin sealing connection ...	1	S.1	
93	†	AGS.1138B	Washer , for cabin sealing banjo (Section 28F/8215)	2	—	—
93	†	AGS.194/16	Washer , lock, for cabin air supply plug and cabin sealing ferrule (Section 28L/716)	8	—	—
Transportation Parts						
97	†	AGS.597B	Cap , protection, for cabin sealing connection (Section 28N/11333)	1	—	—
Cabin Sealing System						
Add the new sheet issued with this amendment list as page 96(g), and alter the list of assemblies to accord						
AUTHORITY :—Modifications Goblin 110, 152 and 165						
Oil Sump						
19	546	—	Alter the reference number to 547 and the group details as follows :—			
		13028/3	} Delete these items and add the following :—			
		13577A				
		13577A				
		22772	Filter (Tecalemit type) (See Ref. No. 841)	1	—	
		22773	Plate, end, top and bottom (See Ref. No. 571)	2	S.1	
		22801	Sleeve, support tube	1	} Brass	
		22802	Sleeve, support tube	1		
19	840	13028/3	Delete this item and substitute :—			
19	841	22772	Filter (Tecalemit type)	1	—	B.
20	568	13577A	Alter the reference number to 571, the part number to 22773, the number off to 2, and delete "Bottom" from nomenclature			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 137**Nozzle Ring**

11	290	—	Alter the reference number to 289			
13	366	19602A/2	Alter the reference number to 367 and the part number to 22440			

AUTHORITY :—Modification Goblin 99**Fuel Pump and Adaptor**

61	1135	22130	Alter the reference and part numbers to read :—			
	1135	22130*	}			
	1143	22442				
			And amend the group details as follows :—			
		N.1984	}			
		N.1962				
		RE/SE	Alter the number off to 1			
			Add :—			
		N.2010	Union for inlet connection 1 —			C.
			(See Ref. No. 1151)			
62	1152	N.1984	}			
	1153	N.1962				
			Add the note “(used only in group Ref. No. 1135)”			
			Add :—			
	1151	N.2010	Union , for inlet connection 1		DTD.525	C.
			(used only in Group Ref. No. 1143)			
62	1155	RE/SE	Alter the number off to 1			

AUTHORITY :—Modification Goblin 127**Combustion Chambers**

28	690	20847/4	Amend the reference number and part number to read :—			
	691	22251	}			
	690	20847/4*				
	—	20994/1	Add the note “(used only in Group Ref. No. 690)” to nomenclature			
28	692	20846/6	Amend the reference number and part number to read :—			
	693	22260	}			
	692	20846/6*				
	—	20994/1	Add the note “(used only in Group Ref. No. 692)” to nomenclature			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
29	696	20845/4	Amend the reference number and part number to read :—			
	697	22252	} And alter the group details as follows :—			
	696	20845/4*				
		20894/1	Amend the Part No. to 20994 and add the note “(used only in Group Ref. No. 696)” to nomenclature			
29	702	22064	Amend the reference number and part number to read :—			
	703	22253	} And alter the group details as follows :—			
	702	22064*				
		20846/6	Add the note “(used only in Group Ref. No. 702)” to nomenclature			
			Add :—			
		22260	Casing, rear, long type group (See Ref. No. 693) (used only in Group Ref. No. 703)	1	—	
		21915	Ring, joint, quarter segment	4	S.84	
30	3730	22067	Amend the reference number and part number to read :—			
	705	22256	} And alter the group details as follows :—			
	3730	22067*				
		20845/4	Add the note “(used only in Group Ref. No. 3730)” to nomenclature			
			Add :—			
		22252	Casing, rear, short type group (See Ref. No. 697) (used only in Group Ref. No. 705)			
		21915	Ring, joint, quarter segment	4	S.84	
30	710	22065	Amend the reference number and part number to read :—			
	711	22254	} And alter the group details as follows :—			
	710	22065*				
		20847/4	Add the note “(used only in Group Ref. No. 710)” to nomenclature			
			Add :—			
		22251	Casing, rear, long type, group (See Ref. No. 691) (used only in Group Ref. No. 711)	1	—	
		21915	Ring, joint, quarter segment	4	S.84	
31	714	22066	Amend the reference number and part number to read :—			
	715	22255	} And alter the group details as follows :—			
	714	22066*				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
		20847/4	Add the note "(used only in group Ref. No. 714)" to nomenclature			
		22251	Add :— Casing, rear, long type, group ... (See Ref. No. 691) (used only in Group Ref. No. 714)	1	—	
		21915	Ring, joint, quarter segment ...	4	S.84	
31	719	22068	Amend the reference number and part number to read :—			
	706	22257	} And alter the group details as follows :—			
	719	22068*				
		20845/4	Add the note "(used only in Group Ref. No. 719)" to nomenclature			
		22252	Add :— Casing, rear, short type, group ... (See Ref. No. 697) (used only in Group Ref. No. 706)	1		
		21915	Ring, joint, quarter segment ...	4	S.84	
32	727	22073	Amend the reference number and part number to read :—			
	707	22258	} And alter the group details as follows :—			
	727	22073*				
		20845/4	Add the note "(used only in Group Ref. No. 727)" to nomenclature			
		22252	Add :— Casing, rear, short type, group ... (See Ref. No. 697) (used only in Group Ref. No. 707)	1	—	
		21915	Ring, joint, quarter segment ...	4	S.84	
33		21915	Add :— Ring , joint, quarter segment, for rear casing	64	S.84	

AUTHORITY :—Modification Goblin 115

**Casing, Front, Centre Housing ; Diffuser
Casing and Rear Cover**

1	65	—	Add an asterisk in the part number column			
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AUTHORITY :—Modification Goblin 140

Oil Sump

20	842	20003	Amend this item to read :—			
20	843	—	Pump , metering, Tecalemit type PE.7710 ...	2	—	A.
21	601	—	Amend the group details as follows :—			
		20003	Delete this item and substitute :—			
		—	Pump, metering, Tecalemit type PE.7710 (See Ref. No. 843)	2	—	—

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY:—Modification Goblin 146**Accessory Box—Top**

81	1398	17612/5	Delete this item and substitute :—			
81	1399	21742	Gear driven, tachometer drive	1	DTD.197	A.
83	1484	—	Alter reference number to read 1485 and amend group details as follows :—			
		17612/5	Delete this item and substitute :—			
		21742	Gear, driven (See Ref. No. 1399) ...	1	DTD.197	—
84	1486	17611/10	Alter the reference number to 1731, the part number to 22561 and the group details as follows :—			
			Alter the reference number of " Shaft, tachometer driving group " to 1485			

AUTHORITY:—Modification Goblin 129**Fuel and Oil Drain**

75	1282	20738/1	} Delete these items			
75		6A1/11E				
75	1284	17950C/1	Delete this group			
75	718	—	Delete this group			
75	†	AGS.1156A	} Delete these items			
75	†	AGS.1156B				
76	340	19739/1				
76	728	19676/1				
76	732	20618/1				
76	†	AGS.162D	} Delete these groups			
76	730	—				
76	736	—				
			Add the following items :—			
75	1758	22080	Bracket, for rear bearing oil drain pipe union	1	S.3	C.
76	†	AGS.1148A	Nut, for rear bearing oil drain pipe union (Section 28F/10491)	1	—	C.
76	1759	22121	Seating, Valve, for Combustion Chamber Fuel Drain Group Consisting of :—	1	—	
		N.2671	Plugging	As Req'd	L.1	
		—	Seating valve	1	S.1 or S.14	
76	†	AGS.1146A	Union, for rear bearing oil drain pipe (Section 28F/10510)	1	—	C.
	1760	N.1946	Union, for fuel drain valve seating	1	S.1	AP 4121A & B C3 P1 Goblin 1 & 2 Schedule of Spares w AL1-4.pdf Page 24

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
	†	AGS.1149/1	Washer , for rear bearing oil drain pipe (Section 28F/10858)	1	—	C.
	†	AGS.194/5	Washer , tab, for fuel drain valve seat union (Section 28L/705)	1	—	C.
Transportation Spares						
97	†	AGS.597A	Cap , blanking for governor fuel drain connection and rear bearing oil drain pipe (Section 28N/11332)	4	—	C.
97	1762	22126	Tube , blanking, for accumulator drain...	1	T.26	C.
	†	AGS.597B	Cap , blanking for dump valve drain connection, fuel drain valve seat union, and governor rail drain connection (Section 28N/11333)	9	—	C.

AUTHORITY :—Modification Goblin 108

Main Shaft

18	516	N.1606	Alter reference No. to 520, the Part No. to N.2935, and Specification to DTD.171B
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AUTHORITY :—Modification Goblin 109

Front Casing

1	24	N.2279	Alter reference number to 25 and the part number to N.2291
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AUTHORITY :—Modification Goblin 116

Nozzle Ring

11	289	—	Alter reference number to read 291 and the group details as follows :—
	†	A.16ZCP	Alter part number to A.16ZEP and nomenclature to read (Section 28M/6981)
		N.869	Alter part number to N.3224 and nomenclature to read “ (See Ref. No. 371) ”
		N.1594	Alter part number to read N.2934 and nomenclature to read (See Ref. No. 389)
		19516A/3	Alter part number to read 22117
12	†	A.16Z/EP	Alter No, off to 166 and to nomenclature add “ For junction pipe studs ”.
12	†	A.16Z/CP	Delete this item
13	370	N.869	Alter reference number to read 371 and part number to N.3224
13	388	N.1594	Alter reference number to read 389 and part number to read N.2934
12	324	21936	Alter reference number to 325 and part number to 22118

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 149						
Air Cooling System						
77	1318	N.267	Delete these items			
77	1324	25523				
78	†	AGS.160C				
Add the following items :—						
77	1820	22568	Filter, Air, Group	...	...	...
			Consisting of :—	2	—	B.
	—	25523	Filter, air (Vokes type)	...	...	1
	†	AGS.884/C	Stud (Section 28T/2908)	...	...	2
77	†	A.16Y/CP	Nut, plain, for air filter stud (Section 28M/5316)	4	—	C.
78	†	AGS.884/C	Stud, for air filter (Section 28T/2908)...	4	—	C.
78	1819	22565	Shim, for rear bearing air pipe and filter	...	As Laminum Rqd.	C.
78	†	AGS.162/C	Washer, for air filter stud nuts (Section 28W/3098)	4	—	C.
78	1336	N.1224	Alter number off to 4			

AUTHORITY :—Modification Goblin 160						
Fuel System						
71	†	6A.1-1E	Delete these items			
71	1224	20645				
73	1256	—	Delete this group			
73	364	20730/1	Delete this item			
71	†	A.16Y/EP	Alter number off to 4 and delete “ and pressure switch studs ” from nomenclature			
73	†	AGS.162D	Alter number off to 6 and delete “ and pressure switch ” from nomenclature			
Add the following items :—						
71	†	AGS.1140B	Nipple , blanking, pressure switch connection (Section 28F/8212)	1	—	C.
71	†	AGS.904B	Nut , union, for pressure switch blanking nipple (Section 28F/5722)	1	—	C.
71	†	AGS.166/2	Pin , split, for union nut for pressure switch blanking nipple (Section 28P/1203)	1	—	C.

AUTHORITY :—Modification Goblin 155						
Combustion Chamber Burners						
37 to 40			Delete pages 37—40 and substitute new page 37 issued with this amendment			
99			Delete page 99 and substitute new page 99 issued with this amendment			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 88						
Combustion Chambers						
34	750	21670	In this group alter part number 21675 to read :—			
		21675	}			
		21977				
34	754	21669	In this group alter part number 21675 to read :—			
		21675	}			
		21977				
AUTHORITY :—Modification Goblin 142						
Cabin Supercharger and Drive Clutch						
96A	8	—	Alter the reference number to 9			
96A	6	22127	Alter the reference number to 7 and the part number to 22691 and amend the group details as follows :—			
		16789A	Delete this item and substitute :—			
		22538	Cone, inner, clutch group... (See Ref. No. 1807)	... 1		
96B	1773	16789A	Alter the reference number to 1807 and the part number to 22538 and amend the group details as follows :—			
		16785	Alter the part number to read 22529			
		16790	Delete this item			
	—	—	Delete Ferodo type rivets—4 off			
			Add the following item :—			
96C	1808	21458	Liner, for inner clutch sliding cone	... 1	Halo 2	C.
AUTHORITY :—Modification Goblin 143						
Cabin Supercharger and Drive Clutch						
96A	7	22691	Alter the reference number and part number to read :—			
	{	1835	And amend the group details as follows :—			
		22708				
		7	22691*			
96B	1791	N.1071	Add the note “(Used in group Ref. No. 7 only)” to nomenclature			
			Add :—			
96B	—	N.1132	Washer, spacing, clutch shaft (See Ref. No. 1836) (Used in Group Ref. No. 1835 only)	... 1	S. 1	—
96D	1791	N.1071	Add the note “(Used in Group Ref. No. 7 only)” to nomenclature			
			Add :—			
96D	1836	N.1132	Washer, spacing for driving shaft (Used in Group Ref. No. 1835)	1	S. 1	C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 151						
93	1755	N.2529	Alter reference number to 1815 and part number to N.2536			
AUTHORITY :—Modification Goblin 118						
Casing Front Centre Housing, Diffuser Casing and Rear Cover						
8	158	—	Amend the group details as follows :—			
			Add :—			
		21957	Plate, name	1	Brass	B.
		AS.155/403	Rivet, snap head ... (Section 28Q/4910)	4	—	
AUTHORITY :—Modification Goblin 153						
Oil Sump						
21	601	—	Amend group details as follows :—			
			Add :—			
		22342	Washer, joint, for oil pressure filter cover (See Ref. No. 1821)	1	Klingerit	
		22344	Washer, joint, for oil pump housing (See Ref. No. 1822)	1	Klingerit	
		22343	Washer, joint, for oil suction filter cover (See Ref. No. 1823)	1	Klingerit	
			Add :—			
23	1821	22342	Washer, jointing for oil pressure filter cover ...	1	Klingerit	C.
23	1822	22344	Washer, jointing for oil sump housing ...	1	Klingerit	C.
23	1823	22343	Washer, jointing, for oil suction filter cover ...	1	Klingerit	C.
AUTHORITY :—Modification Goblin 154						
Accumulator and Barostat						
99	501	7070-194	Alter reference number to 535, and part number to 7070-219 and in nomenclature amend type to read ACU M.158			
99	515	7070-179	} Delete these items			
99	516	7070-176				
			Add :—			
99	536	7070-173	Union, for tank return pipe	1	S. 1	C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 150**Fuel System**

71	1244	21187	Delete this item and substitute :—			
71	1834	22418	Pipe, control box to fuel pump	 1	Silvo Flex.	B.

Fuel Pump and Adaptor

Delete pages 61 and 62 and add new sheets
61 and 62 issued with this amendment

AUTHORITY :—Modification Goblin 148**Fuel Tank Pressurisation**

Add the new sheet issued with this amendment
list as Page 96I and alter the list of assemblies
to accord

Centre Casing

93	1815	N.2536	Alter number off to 2 and to nomenclature add "and fuel pressurisation connections"
93	164	N.2760	Alter number off to 6
93	1756	N.2273	Alter number off to 2 and to nomenclature add "and fuel pressurisation connections"
93	†	AGS.1138B	Alter number off to 4 and nomenclature from "Cabin sealing banjo" to read "Cabin sealing and fuel pressurisation banjos"

Transport Spares

97	†	AGS.597B	Alter number off to 2 and to nomenclature add "and fuel pressurisation pipe"
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AUTHORITY :—Modification Goblin 147**Casing, Front, Centre Housing, Diffuser
Casing and Rear Cover**

9	230	13552	Delete this item
8	231	21455	Add :— Shim, adjusting, for horizontal drives... .. 1 Laminum C.

Accessory Box—Top

84	1504	13564	Delete these items
84	230	13552	
84	1508	16174	
84	1505	20912	Add :— Shim, adjusting for Heywood Compressor drive internal gear and horizontal shaft driving gear
84	1509	20916	Shim, adjusting for Heywood Compressor driving gear
85	1510	13565	Delete this item
84	1511	21131	Add :— Shim, adjusting for Heywood and vacuum pump driving gears

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Accessory Box—Bottom						
89	1576	—	Alter the group details as follows :—			
		15814	Delete, this item			
			Add :—			
	—	20914	Shim, adjusting for gears... (See Ref. No. 1665)	1	Laminum	C.
91	1510	13565	} Delete these items			
91	230	13552				
91	1664	15814				
			Add :—			
90	1511	21131	Shim, adjusting, for fuel pump driving pinion	1	Laminum	C.
90	229	20629	Shim, adjusting for horizontal shaft driving gear	1	Laminum	C.
90	1665	20914	Shim, adjusting, starter gear	1	Laminum	C.

AUTHORITY :—Modification Goblin 145**Nozzle Ring**

11	822	21013	} Amend the Ref. No. and Part No. to read :—			
	1826	21120				
	822	21013*				
11	830	21012	} Amend the Ref. No. and Part No. to read :—			
	1827	21119				
	830	21012*				
11	828	21014	} Amend the Ref. No. and Part No. to read :—			
	1828	21121				
	828	21014*				
11	826	21010	} Amend the Ref. No. and Part No. to read :—			
	1824	21117				
	826	21010*				
11	824	21011	} Amend the Ref. No. and Part No. to read :—			
	1825	21118				
	824	21011*				

AUTHORITY :—Modification Goblin 167**Main Shaft**

16	460	—	Alter the reference number to 461 and the group details as follows :—			
	—	21040/1	Alter the part number to read 22569			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 162**Tail Pipe**

41	896	—	Alter the reference number to 1862 and amend the group details as follows :—			
42	—	21569/3	Alter the part number to 22760			
44	—	AS.464/404	Alter the part number to 465/405 and add “ (Section 28Q/11437) ” to nomenclature			

AUTHORITY :—Modification Goblin 158**Oil Sump**

20	562	N.2346	Add an asterisk adjacent to the part number			
20	563	N.2389	Add :— Pillar , banjo, for oil pump cover 1 S. 2 C.			
21	601	—	Amend the group details as follows :—			
	—	N.2346	Add an asterisk adjacent to the part number			
		N.2389	Add :— Pillar, banjo, for oil pump cover... .. 1 S. 2 — (See Ref. No. 563)			

Cabin Supercharger and Drive Clutch

96A	1835	22708	Amend the group details as follows :—			
	—	N.2346	Add an asterisk adjacent to the part number			
		N.2389	Add :— Pillar, banjo, for oil sump cover ... 1 S. 2 — (See Ref. No. 563)			
96C	562	N.2346	Add an asterisk adjacent to the part number			
96C	563	N.2389	Add :— Pillar , banjo, for oil sump cover 1 S. 2 C.			

AUTHORITY :—Modification Goblin 159**Fuel Pump and Adaptor**

61	1140	19741/2	Alter the reference number to 1141 and the part number to 22664 and amend the group details as follows :—			
	—	A.16Y/EP	Delete this item and substitute :—			
		N.352	Nut, coupling 4 — C. (See Ref. No. 1839)			
62	†	A.16Y/EP	Alter number off from 12 to 8 and delete the word “ coupling ” from the nomenclature			
	1839	N.352	Add :— Nut , for fuel pump coupling bolt 4 — C.			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 71**Accessory Box—Top**

80	1382	13670	Delete this group and substitute :—			
	1383	21823	Cover, Breather and Filter Group ...	1	—	B.
			consisting of :—			
	—	—	Cover, breather ...	1		
	—	—	Filter ...	1		
82	†	A.16Y/CT	Delete this item and substitute :—			
	1437	N.361	Nut , locking for breather stud ...	2	S. 80	C.

AUTHORITY :—Amendment Goblin A.S.31

83	1466	N.2745	Add an asterisk adjacent to the part number			
	†	AGS.566A	Add :— Plug , blanking for top accessory box cover ... (Section 28R/6340)	1	—	C.

AUTHORITY :—Modification Goblin 136**Combustion Chambers**

27	1188	N.2320	} Delete these items			
	1002	N.2278				
33	739	N.3140	} Delete these items			
33	†	AGS.1140A				
33	741	N.2037				
33	†	AGS.166/1				
35	†	1406-42				
27	683	—	Delete this group			
27	685	—	Amend the "No. off" to "7"			
32	707	22258	Delete this group			
30	705	22256	Alter number off from 6 to 7 and amend nomenclature to read "...Nos. 1, 3, 5, 7, 11, 13, 15. "			

Fuel Valve

57	1054	N.3141	} Delete these items			
58	1069	N.2038				
	741	N.2037				
58	†	AGS.1140A				
58	†	AGS.1140B				
		AGS.166/1				
58	†	AGS.166/2				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Fuel System						
Add the following items :—						
71	†	6A.1-2B	Bolt , for pipe clamp between minimum pressure valve and control box (Section 28D/7001)	1	—	C.
71	1763	22497	Bracket , for minimum pressure valve...	1	S. 3	C.
71	1768	22490	Clamp , for flexible pipe, between minimum pressure valve and control box	2	S. 3	C.
71	1766	22488	Clip , for $\frac{1}{8}$ " flexible pipe between pressure valve and control box	2	S. 3	C.
71	1767	22489	Clip , for $\frac{1}{4}$ " flexible pipe between pressure valve and control box	2	S. 3	C.
71	†	A.16Y/BP	Nut , for flexible pipe clamp bolt ... (Section 28M/5315)	1	—	C.
73	1765	22329	Pipe , control box to minimum pressure valve...	1	Silvoflex	B.
73	1764	22328	Pipe , control box to minimum pressure valve...	1	Silvoflex	B.
73	1771	—	Valve , minimum pressure (type 1B) ...	1	—	B.
73	1769	N.1084	Washer , for minimum pressure valve bracket	1	S. 3	C.
73	1770	N.1116	Washer , for minimum pressure valve bracket	1	S. 3	C.
73	†	AGS.162B	Washer , for flexible pipe clamp bolt and nut ... (Section 28W/3097)	1	Spring Steel	C.

V	—	—	Add the following item :—	
			37 Pipe, oil, from metering pump to rear bearing	1 set
V	—	—	Add the following footnotes :—	

NOTES

Item 2—When Goblin Mod. 150 is embodied this Pipe is fitted between the control box and fuel pump.

Items 12, 13, 16 and 23—are not to be accounted for when Goblin Mod. No. 129 is embodied.

Items 21 and 22—are not to be accounted for when Goblin Mod. No. 160 is embodied.

Item 26—is not to be accounted for when Goblin Mod. No. 125 is embodied.

Item 37—is only to be accounted for when Goblin Mod. No. 125 is embodied.

V	—	—	Raise the Issue No. of the Checking List to 2, insert Amendment List No. 3 and date February, 1947, in the Issue No. Chart.	
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Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 112**Fuel Valve Control**

151	4182	21032/2	} Alter reference number to 3078 and Part Number to 22028			
	3076	21759A				

AUTHORITY :—Modification Goblin 119**Fuel System**

161	4480	21002	Alter Number off to 14 and add :—			
	4478	22051	Pipe , feed, to burner (Number 15 combustion chamber)	1	Silvoflex	B.

AUTHORITY :—Modification Goblin 103**Fuel Valve Control**

149	1048	19673/1	Alter Reference Number to 1049 and Part Number to 22028			
149	4102	—	Alter the group details as follows :—			
		N.843	Delete this item and substitute :—			
		N.3236	Stud , for fuel pump connection...	...	3	S. 1
			(See Ref. No. 1095)			
151	598	N.843	Alter Reference Number to 1095 and Part Number to N.3236			

AUTHORITY :—Modification Goblin 169**Cabin Sealing System**

Add the new sheet issued with this amendment list as Page 178(a) and alter the list of assemblies to accord

AUTHORITY :—Modification Goblin 137**Nozzle Ring**

129	290	19808	Alter the Reference Number to 289 and delete Part Number			
129	3290	22201	Alter the Reference Number to 3291 and delete the Part Number. In the footnote to this item amend Group Ref. No. 290 to read "Group Ref. No. 289"			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 127**Combustion Chambers**

137	719	22068	Alter Reference Number and Part Number to read :—			
	706	22257	}			
	719	22068*				
137	727	22073	Alter Reference Number and Part Number to read :—			
	707	22255	}			
	727	22073*				
137	3730	22067	Alter Reference Number and Part Number to read :—			
	705	22256	}			
	3730	22067*				
137	3728	22069	Alter Reference Number and Part Number to read :—			
	3728	22069*	}			
	709	22259				
		20845/5	Add the note "(Used only in Group Reference 3728)" to Nomenclature			
			Add :—			
		22252	Casing, rear, short type group (See Ref. No. 697) (Used only in Group Ref. No. 709)			

AUTHORITY :—Modification Goblin 140**Oil Sump**

133	842	20003	Amend this item to read :—			
	843	—	Pump , metering, Tecalemit type PE.7710 ... 1 — A.			

AUTHORITY :—Modification Goblin 116**Nozzle Ring**

129	289		Alter Reference Number to 291			
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Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 154						
Accumulator and Barostat						
181	501	7070-194	Alter Reference Number to 535, Part Number to 7070-219 and in Nomenclature amend type to read ACU.M15B			
181	515	7070-179	} Delete these items			
181	516	7070-176				
Add :—						
181	536	7070-173	Union , for tank return pipe	...	...	...
				1	S. 1	C.
181	517	15339-809	Alter Number off to 1			

AUTHORITY :—Modification Goblin 148**Fuel Tank Pressurisation**

Add the new sheets issued with this amendment list as Page 178(b) and alter the list of assemblies to accord

AUTHORITY :—Modification Goblin 136**Fuel Valve**

150	—	21801	Delete this item			
151	{ 4208	N.895	} Delete "Blanking Cover" from Nomenclature			
	{ 4210	N.899				
152	4244	21772A	Delete "Blanking Cover" from Nomenclature			
Add :—						
151	1772	—	Valve , minimum pressure (Hobson Mk. II)	...	...	...
				1	—	—

Combustion Chamber

Delete sheets 137-138 and add new sheets 137-138 issued with this amendment

Ref. No.	Part No.	Nomenclature	No. off.	Material Specification	Cl. of St.
COMBUSTION CHAMBER BURNER ASSEMBLY (One assembly per engine)					
814	20099	Joint, for adjusting shim	32	Klingerit	C.
820	21134	Shim, adjusting for burner	As reqd.	S. 3	C.
30A/1038	—	Wire, locking, 18 SWG	As reqd.	Soft Iron	C.

NOTE : For further details see Section 36LL

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL PUMP AND ADAPTOR ASSEMBLY (One Assembly per engine) complete as follows :—					
1128	—	Adaptor, for Fuel Pump, Group 1 — B.	consisting of :—		
	19662/2	Adaptor 1	DTD.	281	
	N.878	Stud, for Fuel Pump 6	S.	1	
		(See Ref. No. 1148)			
1832	N.3036	Banjo, Inlet connection 1	DTD.	525	C.
1130	N.2226	Banjo, Outlet, for control valve and filter 1	S.	1	C.
1132	19740	Bolt, Coupling 4	S.	1	C.
1134	19652/1	Coupling, Female 1	S.	11	C.
1136	19650/1	Coupling, Male 1	S.	11	C.
1833	22570	Fuel Pump Assembly, Group 1 — A.	consisting of :—		
	N.2226	Banjo, outlet for control valve and filter 1	S.	1	—
		(See Ref. No. 1130)			
	N.3036	Banjo, inlet connection 1	DTD.	525	—
		(See Ref. No. 1832)			
	N.662	Nut, cap, for outlet connection pillar... .. 1	S.	1	
		(See Ref. No. 1144)			
	N.2357	Pillar, Banjo-inlet connection 1	DTD.	176A	
		(See Ref. No. 1831)			
	N.2359	Pillar, for outlet connection 1	S.	2	
		(See Ref. No. 1146)			
	—	Pump, fuel, Dowty type, A.260Y Mk. II 1	—		
		(See Ref. No. 1149)			
	RE/SE	Seal, composite for inlet connections 3	—		
		(See Ref. No. 1153)			
	RE/SD	Seal, composite for outlet banjo 2	—		
		(See Ref. No. 1157)			
	RE/SC	Seal, composite for pillar 1	—		
		(See Ref. No. 1159)			
	N.1984*	Union, for inlet connection 1	FDP or	R. 15	
		(See Ref. No. 1152)			
	N.1962	Union, for inlet connection 1	FDP or	R. 15	
		(See Ref. No. 1153)			
1141	22664	Fuel Pump Coupling, Group 1 — B.	consisting of :—		
	19740	Bolt, coupling 4	S.	1	
		(See Ref. No. 1132)			
	19652/1	Coupling, female 1	S.	11	
		(See Ref. No. 1134)			
	19650	Coupling, male 1	S.	11	
		(See Ref. No. 1136)			
	N.352	Nut, coupling 4	—		
		(See Ref. No. 1839)			

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1142	—	Housing, for Fuel Pump and Adaptor, Group ... consisting of:—	1	—	B.
	19659/1	Housing	1	DTD. 281	
†	AGS.886/D	Stud, for adaptor (Section 28T/2914) ...	4	—	
	19663/1	Stud, for bottom accessory box (See Ref. No. 1150)	2	S. 1	
†	A.16Y/GP	Nut, for adaptor (Section 28M/758)	4	—	—
1144	N.662	Nut, cap for outlet connection pillar	1	S. 1	C.
†	A.16Y/EP	Nut, for coupling, fuel pump housing to bottom acces- sory box stud (Section 28M/756)	8	—	
1839.	N.352	Nut, for fuel pump coupling bolt	4	—	C.
1831	N.2357	Pillar, Banjo for inlet connection	1	DTD. 525	C.
1146	N.2359	Pillar, for outlet connection	1	S. 2	C.
1149	—	Pump, fuel, Dowty type A.260Y Mk. II	1	—	A.
1155	RE/SE	Seal, composite for inlet connection union	3	} Steel and Rubber	
1157	RE/SD	Seal, composite for outlet banjo	2		
1159	RE/SC	Seal, composite for pillar	1		
†	AGS.886/D	Stud, for adaptor (Section 28T/2914)...	4	—	—
1148	N.878	Stud, for fuel pump	6	S. 1	C.
1150	19663/1	Stud, for housing to bottom accessory box	2	S. 1	C.
1152	N.1984*	Union, for inlet connection	1	} FDP or R.15	C.
1153	N.1962	Union, for inlet connection	1		C.
†	AGS.162/E	Washer, spring, for adaptor and fuel pump (Section 28W/3100)	10	—	—
†	AGS.162/D	Washer, spring, for housing to bottom accessory box (Section 28W/3099)	2	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CABIN SEALING, ASSEMBLY (One Assembly per engine) Complete as follows :—					
1754	21766	Clip, for cabin sealing air pipe	1	S. 3	C.
1753	21767	Pipe, Air, Cabin Sealing, Group consisting of :—	1	—	B.
	N.2218	Banjo	1	S. 1 or S. 6	—
	N.2005	Union	1	S. 1	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of Sr.
FUEL TANK PRESSURISATION ASSEMBLY (One Assembly per engine) Complete as follows :—					
1318	N.267	Bolt , securing, air supply pipe clip to bracket	... 1	S. 1	C.
1812	22242	Bracket , for air supply pipe clip	... 1	S. 84	C.
1813	22243	Clip , for air supply pipe	... 1	S. 84	C.
†	A.16Y/CP	Nut , for air supply pipe clip bolt (Section 28M/5316)	... 1	—	C.
1811	22244	Pipe, Air Supply, Group consisting of :—	... 1	—	B.
—	N.2218	Banjo	... 1	S. 1	
—	—	Pipe	... 1	T. 26	
—	N.2014	Union	... 1	S. 1	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
TRANSPORTATION PARTS Complete as follows :—					
†	6A.13L	Bolt , blanking, for banjo for Heywood Compressor oil feed pipe (Section 28D/7428)	1	—	—
1900	N.118	Bolt , securing, trunnion mounting	18	S. 1	B.
1913	N.680	Cap , blanking, for fuel pressure switch connection ...	1	Brass	B.
†	AGS.597F	Cap , blanking, for air feed pipes (Section 28N/11416)	4	—	—
†	AGS.597	Cap , blanking, for burner pressure gauge connection ... (Section 28N/11332)	1	—	—
†	AGS.597H	Cap , blanking, for fuel pump connection (Section 28N/11418)	1	—	—
1902	20620	Cover , blanking, for air intake	2	Comm. Alum.	B.
1380	17087/2	Cover , blanking, for generator and cabin supercharger facings	2	D.T.D. 59A	B.
1906	17135	Cover , blanking for hydraulic pump facing ...	1	DTD. 59A	B.
1903	21372	Cover , blanking, for starter facing	1	DTD. 59A	B.
1904	19138/3	Cover , blanking, for tachometer	1	DTD. 281	B.
1908	17133	Cover , blanking, for vacuum pump and compressor faces	2	DTD. 59A	B.
1913	N.680	Cap , blanking, for fuel pressure switch connection ...	1	Brass	B.
4390	N.2102	Nipple , blanking, for vacuum and compressor feed banjo, and oil pressure gauge connection	3	Brass	C.
134	N.663	Nut , cap for blanking combined drain, hydraulic pump connection and starter feed banjo	2	S. 1	C.
†	A.16Y/LP	Nut , for banjo blanking bolt, for Heywood Compressor oil feed pipe (Section 28M/762)	1	—	—
†	810-3D/3	Nut , union for blanking combined drain outlet and thermometer pocket (Section 36FF/6314)	2	S. 1	—
4392	2510-15/1	Nut , union, for blanking nipple for vacuum and compressor feed banjo, and oil pressure gauge connection	3	S. 1	C.
1910	17477A	Plate , support, for packing case	1	M. S.	B.
†	AGS.595F	Plug , blanking for cooling pipes (Section 28R/11424)	2	—	—
†	AGS.595B	Plug , blanking, for vacuum pump and Heywood Compressor oil feed pipes (Section 28R/11420)	3	—	—
1912	20638	Plug , blanking, for igniter plug boss... ..	2	M. S.	B.
†	AS.155-1008	Rivet , for blanking union nut, for thermometer pocket (Section 28Q/4972)	1	—	—
1916	19529/3	Trunnion, Mounting, Group consisting of :—			
	19528/2	Flange	1	M. S.	
	19527	Hub... ..	1	M. S.	

TRANSPORTATION PARTS.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	AGS.160G	Washer, plain, for banjo blanking bolt nut, for Hey- wood Compressor oil feed pipe (Section 28W/3075)	2	—	
†	AGS.162E	Washer, spring for trunnion mounting ... (Section 28W/3100)	18	SP. ST.	

(ROYAL AIR FORCE—SECTION 36LL.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
ACCUMULATOR, BAROSTAT AND BURNERS ASSEMBLY (One Assembly per engine) Complete as follows :—					
500	W.7084/1*	Accumulator, type A2/A1A	1	—	A.
532	—	Accumulator, type A2/1A	1	—	A.
503	Z.7074/26	Adaptor, for accumulator	1	—	C.
509	Y.7070/180	Adaptor, for barostat drain to atmosphere ...	1	—	C.
513	Z.7070/56A	Adaptor, for barostat inlet connection ...	1	—	C.
515	Y.7070/179	Adaptor, for barostat return to tank ...	1	—	C.
516	Y.7070/176	Banjo, for barostat return to tank connection ...	1	—	C.
511	Y.7070/178	Banjo, for barostat	1	—	C.
501	Y.7070/194	Barostat, type ACU/M.15	1	—	A.
530	X.17091-34D	Burner, for numbers, 1, 5, 9 and 13 combustion chambers	4	FIN.	A.
528	X.17091-34B	Burner, for numbers 2, 4, 10, 11 and 12 combustion chambers	5	FIN.	A.
529	X.17091-34C	Burner, for number 3 combustion chamber... ..	1	FIN.	A.
502	X.17091-34A	Burner, for numbers 6, 8, 14 and 16 combustion chambers	4	FIN.	A.
531	X.17091-34E	Burner, for numbers 7 and 15 combustion chambers	2	FIN.	A.
31	Z.7068/176	Cap, dust for barostat inlet connection,	1	—	C.
518	Z.7070/175	Cap, dust for barostat return to tank connection ...	1	—	C.
512	Z.7067/45	Cap, protection for barostat drain to atmosphere ...	1	—	C.
519	Z.15335/500	Stud, in barostat body	4	—	C.
504	Z.15339/556	Washer, joint for accumulator	1	—	C.
510	Z.15339/808	Washer, joint for barostat drain to atmosphere ...	1	—	C.
514	Z.15339/527A	Washer, joint for barostat inlet connection... ..	1	—	C.
517	Z.15339/809	Washer, joint, for barostat return to tank connection	1	—	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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COMBUSTION CHAMBER ASSEMBLY
(One Assembly per engine)

Note :—This assembly is identical with that
used on Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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CABIN SEALING ASSEMBLY
(One Assembly per engine)

Note :—This assembly is identical with that
used on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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FUEL TANK PRESSURISATION ASSEMBLY
(One Assembly per engine)

Note :—This assembly is identical with that
used on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AIR MINISTRY
December, 1946

Amendment List No. 2 to
AIR PUBLICATION 4121A and B
Volume III, Part I
1st Edition.
(Complete in 17 Sheets)

GOBLIN ENGINE

SCHEDULE OF SPARE PARTS

NOTES :—Numerical indices are to be altered where necessary. Items that are to be inserted in groups or added as separate items are to be placed in their alphabetical sequence.

Instructions for embodying this Amendment List.

- (1) See that the previous A.L. has been embodied.
- (2) Undo the binder and lift out the pages to allow the insertion of new pages.
- (3) Embody the A.L. in ink or by cutting out slips and gumming them into the Schedule. Add the number of this A.L. to each item altered.
- (4) Sign the Amendment Certificate which is at the front of the Vol. III.

Page 1

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modifications Goblin						
9, 34, 42, 46 and 73						
Casing, Front ; Centre Housing ; Diffuser						
Casing and Rear Cover						
Remove pages 1 to 6 inclusive and insert new sheets issued with this amendment as pages 1 to 6 inclusive						
7	148	—	} Delete these items and substitute :—			
7	150	—				
7	149	21571				
			Pipe, Cooling, Group 1	—		B.
			(Not required with Casing Ref. No. 65)			
			consisting of :—			
		21559	Flange	1	S. 3 or S. 84	
		21560	Flange	1	S. 3 or S. 84	
		—	Pipe	1	T. 26	
7	151	21570	Pipe, Cooling, Group 1	—		B.
			(Not required with Casing Ref. No. 65)			
			consisting of :—			
		21559	Flange	1	S. 3 or S. 84	
		21560	Flange	1	S. 3 or S. 84	
		—	Pipe	1	T. 26	
7	152	—	} Amend the note following the nomenclature to : " For use only with Casing Ref. No. 65 "			
7	154	—				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
8	178	N.848	Delete this item and substitute :—			
8	†	AGS.885C	Stud , cooling pipe (Section 28T/2909) ...	4	—	—
9	220	N.1576	Alter the reference number to 219 and the part number to N.2917			
10	250	N.1602	} Delete these items and substitute :—			
10	254	N.1549				
10	†	AGS.195/12	Washer , tab, for diffuser and front casing fitting and mounting bolts (Section 28L/691)	16	—	—
			Add the following :—			
7	137	N.422	Nut , locking, for internal pipe lockwire tab ...	1	S. 1	C.
9	201	N.2912	Tab , lockwire, for internal pipe ...	1	S. 84	C.
9	187	N.850	} To the nomenclature of these items add :— " For use only with old type casings "			
10	†	AGS.162C				
10	†	AGS.194/11	Delete from the nomenclature the note " For use with groups, etc."			

AUTHORITY :—Modification Goblin 39

Accessory Box Top

81	1410	19693/2	Delete this item and substitute :—			
81	1411	21566	Housing , for generator drive bearing ...	1	DTD. 281	B.
84	†	AGS.887/H	Alter the number off from 8 to 7 and add :—			
84	1497	21568	Stud , for generator ...	1	S. 1	C.
79	1360	—	Alter the group details as follows :—			
		AGS.887/H	Alter the number off from 8 to 7 and add :—			
		21568	Stud , for generator (See Ref. No. 1497) ...	1	S. 1	

AUTHORITY :—Modification Goblin 14

Casing, Front ; Centre Housing ; Diffuser Casing and Rear Cover

9	†	R.2000-203/1	Delete this item and substitute :—			
9	241	21284	Washer , lock, for centre housing vent plate bolt	2	S. 84	C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 62

Tail Pipe Fire Guard

47	406	20781A/3	Alter the reference number to 407, the part number to 21975, and the group details as follows :			
		20740A/4	Alter this part number to read 21638.			
		20739A/4	Alter this part number to read 21637			
			Add the following :—			
		N.155	Bolt, for thermocouple lead clip (See Ref. No. 400)	... 8	S. 80	
		21641	Clip, for thermocouple lead (See Ref. No. 405)	... 8	DTD. 187A	
		A.16Z/BP	Nut, plain, for thermocouple lead clip bolts (Section 28M/6759)	8	—	
		AGS.160/B	Washer, plain, for clip nuts (Section 28W/3070)	... 8	—	
			Add the following :—			
47	400	N.155	Bolt , for thermocouple lead clip	... 8	S. 80	C.
47	405	21641	Clip , for thermocouple lead	... 8	DTD. 187A	C.
47	†	A.16Z/BP	Nut , plain, for thermocouple lead clip bolts (Section 28M/6759)	8	—	
47	†	AGS.160/B	Washer , plain, for clip nuts (Section 28W/3070)	8	—	

AUTHORITY :—Modification Goblin 80

Combustion Chambers

35	66	16488/4	Alter the reference number to 766 and the part number to 21139
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AUTHORITY :—Modification Goblin 52

Air Cooling System

77	1320	13940/1	Alter the number off from 4 to 12 and amend the nomenclature to read :—			
			Bolt , securing, air filter and support clip for rear bearing pipe			
77	1328	—	Delete this group			
			Add the following :—			
77	1318	N.267	Bolt , for cooling pipe flange	... 4	S. 1	C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
77	1324	25523	Filter, air, Vokes type ...	2	—	B.
77	1331	21051	Pipe to Rear Bearing, Intermediate Section Group consisting of :—	2	—	B.
		AGS.952/F	Collar ...	1	—	
		20743	Flange ...	1	S. 3 or S. 84	
		N.2031	Nut, union ...	1	S. 1	
		—	Pipe ...	1	T. 26	
77	1329	22045	Pipe, to Rear Bearing Rear Section Group consisting of :—	2	—	B.
		20743	Flange ...	1	S. 3 or S. 84	
		22044	Flange ...	1	S. 3 or S. 84	
		—	Pipe ...	1	T. 26	
78	1336	N.1224	Washer, joint, for cooling pipe flange ...	2	Klingerit 1000	C.
78	†	AGS.160/C	Washer, plain, for cooling pipe flange bolts (Section 28W/3071) ...	4	—	
			Centre Casing			
93	1692	21178/1	Alter the reference number to 1693, the part number to 21541/1, and the group details as follows :—			
		20002/5	Alter this part number to 21023/2			
			Add the following :—			
		21047	Block, support, for air filter ...	4	S. 1	
		21049	Block, support, for cooling pipe... ...	2	S. 1	
		AS.456/307	Rivet, for support blocks... ...	12	—	

AUTHORITY :—Modification Goblin 93

Fuel System Accumulator and Barostat

99	500	W.7084/1	Alter the type number to A2A1A
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AUTHORITY :—Modification Goblin 96

Combustion Chambers

Add the following :—

35	768	21480	Washer, "Shakeproof," for rear casing nuts ...	256	—	C.
			Add the following item to the undermentioned groups, amending reference numbers and part numbers as stated :—			

21480	Washer, "Shakeproof," for rear casing 16 nuts (See Ref. No. 768)	—
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Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
30	700	21749/1	Alter the reference number to 701 and the part number to 22052			
30	704	21745	Alter the reference number to 699 and the part number to 22055			
31	708	21747	Alter the reference number to 698 and the part number to 22053			
32	712	21748	Alter the reference number to 713 and the part number to 22054			
32	716	21746	Alter the reference number to 717 and the part number to 22056			
33	734	21751	Alter the reference number to 735 and the part number to 22072			

AUTHORITY :—Modification Goblin 65

Starting Valve and Control

49	†	6A.1/18C	} Delete these items and substitute :—			
49	†	6A.1/12C				
49	†	A.15Y/18C	Bolt, for starting valve cover ... (Section 28D/7287)	2	—	
49	†	A.15Y/12C	Bolt, for starting valve cover ... (Section 28D/7282)	4	—	
51	974	—	Alter the group details as follows :—			
		6A.1/12C	} Delete these items and substitute :—			
		6A.1/18C				
		A.15Y/12C	Bolt, for starting valve cover ... (Section 28D/7282)	4	—	
		A.15Y/18C	Bolt, for starting valve cover ... (Section 28D/7287)	2	—	

AUTHORITY :—Modification Goblin 81

Transportation Parts

97	1910	17477A	Alter the reference number to 1911 and the part number to 17477B			
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AUTHORITY :—Modification Goblin 102

Tail Pipe

41	896	—	Amend the group details as follows :—			
		21253†	Delete the sign. † from this part number and delete the note re alternatives at the foot of the page			
		17244A†	} Delete these items together with note re alternatives at the foot of the page			
		17245A†				
		17246†				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 83**Tail Pipe**

41	896	—	Add the following item to the group details :—			
		21847	Plate, sole, for heater muff flange	... 2	Immaculate	5

AUTHORITY :—Modification Goblin 114**Fuel System**

72	346	20806/1	Alter the reference number to 1248 and the part number to 22031			
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AUTHORITY :—Modification Goblin 113**Fuel System Accumulator and Barostat**

99	500	W.7084/1	Add an asterisk to the part number.			
			Add the following item :—			
99	532	—	Accumulator, type A.2/1A	 1	—	A.

AUTHORITY :—Modification Goblin 117**Fuel Pump and Adaptor**

61	1139	22128	Alter the reference number to 1137, the part number to 22131, and the group details as follows :—			
			Alter the type number of the fuel pump from A.260Y/Mk.1/8 to A.260Y Mk. II, and the reference from 1147 to 1149			
62	1147	—	Delete this item and substitute :—			
62	1149	—	Pump, fuel, Dowty type A.260Y Mk. II	... 1	—	A.

AUTHORITY :—Modification Goblin 122**Fuel Pump and Adaptor**

61	1137	22131	Alter the reference number to 1135, the part number to 22130, and the group details as follows :—			
		N.1477 N.1464 N.1470	Delete these items and substitute :—			
		RE/SE				
			Seal, composite, for inlet connections	... 2	—	
			(See Ref. No. 1155)			
		RD/SD	Seal, composite, for outlet banjo	... 2	—	
			(See Ref. No. 1157)			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
		RC/SC	Seal, composite, for pillar ... (See Ref. No. 1159)	1	—	
62	1154	N.1477	} Delete these items and substitute:—			
62	1156	N.1464				
62	1158	N.1470				
62	1155	RE/SE	Seal, composite, for inlet connections ...	2	—	C.
62	1157	RD/SD	Seal, composite, for outlet banjo ...	2	—	C.
62	1159	RC/SC	Seal, composite, for pillar ...	1	—	C.

AUTHORITY :—Modification Goblin 101

Cabin Supercharger and Drive Clutch

96(a)	4	19153	Amend the group details as follows:—			
		21462	Alter this part number to 21462A			
			Add the following:—			
		802-59	Dowel, for oil feed pillar ferrule ...	1	M.S.	
		N.2527	Ferrule, for oil feed pillar ...	1	BS. 249	

AUTHORITY :—Modification Goblin 53

Main Shaft

17	478	15422/2	Alter the reference number to 479 and the part number to 20809			
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AUTHORITY :—Modification Goblin 125

Oil Flow Indicator

Delete pages 25 and 26 comprising the Oil Flow Indicator and Mounting Assembly

Oil System

67	1194	21073	Delete this item			
67	198	—	} Delete these groups			
68	208	—				
			Add the following:—			
67	1195	22192	Clip, for pipe to rear bearing ...	1	S.84	C.
68	1215	22191	Pipe, Metering Pump to Rear Bearing, Front Half, Group consisting of:—	1	—	
		N.2222	Banjo ...	1	S. 1 or S. 6	
		N.2117	Nipple ...	1	S. 1	
		AGS.1188A	Nut, union ...	1	—	
		—	Pipe ...	1	T. 26 and lagging	
68	1209	21913	Alter the nomenclature of this group to read:—			
			Pipe, Metering Pump to Rear Bearing, Rear Half, Group			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 97 and alterations to accord with the reclassification of Modification Goblin 41						
Combustion Chambers						
Add the following :—						
27	678	N.160	Bolt, for front and rear casings ...	240	S. 11	C.
27	679	N.172	Bolt, short, for front and rear casings ...	16	S. 11	C.
27	680	—	Alter the reference number to 681, and the group details as follows :—			
		17933A/6	Alter this part number to 22061			
		A.16Z/CP AGS.884B 806-96/1	} Delete these items.			
27	682	—	Alter the reference number to 683, and the group details as follows :—			
		21718	Alter this part number to 22062			
		A.16Z/CP AGS.884B 806-96/1	} Delete these items			
27	684	—	Alter the reference number to 685, correct the number off to 6, and amend the group details as follows :—			
		17936A/5	Alter this part number to 22060			
		A.16Z/CP AGS.884B 806-96/1	} Delete these items			
28	686	—	Alter the reference number to 687, and the group details as follows :—			
		17931A/6	Alter this part number to 22059			
		A.16Z/CP AGS.884B 806-96/1	} Delete these items			
28	688	—	Alter the reference number to 689, and amend the group details as follows :—			
		17932A/5	Alter this part number to 22058			
		A.16Z/CP AGS.884B 806-96/1	} Delete these items			
34	†	AGS.884B	Delete this item			
32 } 33 }	726	21738/1	Delete this group			
33	735	22072	} Delete these groups			
33	748	21163/1				
34	752	20170/4				
35	756	21369				
35	762	21371				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Remove pages 29 to 32 inclusive and insert new sheets issued with this amendment list as pages 29 to 32 inclusive

AUTHORITY :—Modification Goblin 54

Main Shaft

15	434	13635/2	Delete these items						
17	491 493	21403 21403/3							
17	510	N.2820							
Add the following :—									
15	437	21304	Circlip , for hub shaft ring nut	...	...	1	DTD. 215		
17	489	21337	Shaft, Extension, Group consisting of :—	...	...	1	—	B.	
		21300	Bush, locating	...	...	1	S. 1		
		21307	Shaft	...	...	1	S. 2		
17	511	N.2916	Washer , locking, for hub shaft ring nut	...		1	S. 84		
17	474	N.743	Alter the reference number to 473 and the part number to N.754						

AUTHORITY :—Modification Goblin 79

Main Shaft

16	460	—	Alter the group details as follows :—			
		AGS.195/4	Delete this item.			
Add the following :—						
		N.2926	Washer , lock, for impellor pivot nuts (See Ref. No. 517)	...	4	—
18	†	AGS.195/4	Delete this item and substitute :—			
18	517	N.2926	Washer , lock, for impellor pivot nuts	...	4	— C.

ADDENDUM No. 1 for Goblin II Engine

AUTHORITY :—Modification Goblin 70

Fuel Valve Control

151	4182	21032/2	Alter the reference number and part number to read :—			
	4182 3076	21032/2* 21759A				

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 96						
Combustion Chambers						
137	716	21746	Alter the reference number to 717 and the part number to 22056			
137	734	21751	Alter the reference number to 735 and the part number to 22072			
137	704	21745/1	Alter the reference number to 699 and the part number to 22055			
137	3726	21760	Alter the reference number to 746, the part number to 22057, and to the group details add :—			
		21480	Washer, "Shakeproof," for rear casing 16 nuts (See Ref. No. 768)	—		

AUTHORITY :—Modification Goblin 113						
Fuel System, Accumulator, Barostat, and Burners						
181	500	W.7084/1	Delete this item and substitute :—			
181	532	—	Accumulator, type A.2/1A 1	—		A.

AUTHORITY :—Modification Goblin 85									
Oil System									
To the list of replaced items add :—									
159	212	—	Pipe, Pump to Bottom Accessory Box and Front Casing Inlet, Group	1	—	B.			
159	4390	N.2102	} Delete these items						
159	4392	2510–15/1							
To the list of new items add :—									
159	4400	22125	Pipe, Pump to Bottom Accessory Box and Front Casing Inlet, Group consisting of :—	1	—	B.			
	N.2220	Banjo		1	S. 1 or S. 6 or S. 14 or S. 21 or DTD.299				
	19251/1	Nipple		2	S. 1				
	16869/2	Nut, union		2	S. 1				
	—	Pipe		1	T. 26 and lagging				

AUTHORITY :—Modification Goblin 125
Oil Flow Indicator

Delete pages 135 and 136 comprising the Oil Flow Indicator and Mounting Assembly

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 97						
Combustion Chamber						
137	680	—	Alter this reference number to 681			
137	682	—	Alter this reference number to 683			
137	717	22056	Alter this reference number to 719 and the part number to 22068			
137	735	22072	Alter the reference number to 727 and the part number to 22073			
137	3700	—	Alter the reference number to 3701, and the group details as follows :—			
		21761	Alter this part number to 22063			
		A.16Z/CP AGS.884/B 806-96/1	} Delete these items			
137	699	22055				
			Alter the reference number to 3730 and the part number to 22067, and the Class of Store to "A"			
137	746	22057	Alter the reference number to 3728 and the part number to 22069; the Class of Store to "A" and the group details as follows :—			
			Add the following :—			
		N.160	Bolt, for front and rear casings (See Ref. No. 678)	... 16	S. 11	
		A.16Z/CP	Nut, plain, for rear casing bolts (Section 28M/6435)	... 16	—	
		806-96	Tab, lockwire, for locating pins (Section 36FF/662)	... 3	S. 3	
			Alter the reference number of the item, "Casing, Front, Long Type, Group," from 3700 to 3701			

Following page 192, insert the new sheet issued with this amendment list as pages 193 and 194, comprising the Flight Servicing Tool Kits

SCHEDULE OF SPARE PARTS FOR THE GOBLIN I ENGINE 1
ROYAL AIR FORCE SECTION 36KK
CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR
COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER ASSEMBLY complete as follows :—					
12	N.2232	Banjo , for vertical drives oil jet	1	DTD. 525	C.
14	13546	Bearing , ball, front, for front casing (Hoffman type L.S.8, $\frac{3}{4}$ " $\times$ $1\frac{7}{8}$ " $\times$ $\frac{9}{16}$ ")	1	—	B.
16	13548	Bearing , ball, rear, for front casing centre housing ... (Hoffman type 130, 30 m/m $\times$ 62 m/m $\times$ 16 m/m)	1	—	B.
18	13536	Bearing , ball, for front casing centre housing vertical drives (Hoffman type 125, 25 m/m $\times$ 52 m/m $\times$ 15 m/m)	2	—	B.
20	15379	Bearing , ball, for front casing centre housing vertical drives (Hoffman type L.25N, 25 m/m $\times$ 52 m/m $\times$ 9 m/m)	2	—	B.
†	6A.1/2E	Bolt , for air cooling pipes (Section 28D/7031) ...	4	—	—
†	6A.1/4E	Bolt , for cooling ring (Section 28D/7082)	14	—	—
†	6A.1/8E	Bolt , for cooling pipes (Section 28D/7084)	8	—	—
10	N.123	Bolt , for front casing centre housing vertical drives ...	6	S. 1	C.
24	N.2279	Bolt , banjo, for front bearing connector and oil pillar feeds	2	S. 2	C.
26	16887A/1	Bolt , fitting, short, for diffuser casing and rear cover	8	S. 1	C.
42	16888A/1	Bolt , fitting, long, for diffuser casing and rear cover	8	S. 1	C.
59	16589	Boss , for Thermocouple... .. (For use only with old type casings)	1	S. 2 or S. 11	C.
60	20542A/1	Bracket , support, for barostat	1	S. 3	B.
65	—	‡ Casing, Front, and Centre Housings, Diffuser Casing and Rear Cover, Group consisting of :—	1	—	A.
	13896/2	Bolt, fitting, for diffuser and front casing ...	12	S. 2	
	16888A/1	Bolt, fitting, long, for diffuser casing and rear cover (See Ref. No. 42)	8	S. 1	
	16887A/1	Bolt, fitting, short, for diffuser casing and rear cover (See Ref. No. 26)	8	S. 1	
	6A.1/8E	Bolt, for cooling pipe (Section 28D/7084) ...	8	—	
	6A.1/4E	Bolt, for cooling ring (Section 28D/7082) ...	14	—	
	17250/4	Bolt, mounting, L.H. top and R.H. bottom...	2	S. 11	
	17251/4	Bolt, mounting, L.H. bottom and R.H. top...	2	S. 11	
	21788	‡ Casing, front	1	DTD. 133B	
	21789	‡ Casing, front	1	DTD. 133B	
	16587B/11	Casing, diffuser	1	DTD. 281	
	13964/1	Circlip, dowel, diffuser casing bolts (See Ref. No. 76)	16	Piano Wire	
	20001B/3	Cover, rear... ..	1	DTD. 281	

CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Casings, Front, and Centre Housings, Diffuser Casing and Rear Cover, Group (continued)					
N.2425		Dowel-bolt, diffuser casing	16	S. 1	
N.2441		Dowel, for centre housing facing ferrule ...	2	Silver Steel	
N.2432		Dowel, for centre housing	1	S. 1	
N.2438		Dowel, for cooling pipes facing ferrule ...	2	S. 1	
1902-34		Dowel, for combustion chamber and mounting bracket facing ferrules	120	M.S. Wire	
802-59		Dowel, for impellor clearance pin union ...	3	M.S. Wire	
N.2423		Dowel, locating, for front and diffuser casings	2	S. 1	
17034A		Elbow, for tail pipe cooling pipe (See Ref. No. 100)	4	DTD. 281	
N.2500		Ferrule, for combustion chamber and mounting bracket facings	120	BS. 249	
N.2502		Ferrule, for centre housing facing	2	BS. 249	
N.2512		Ferrule, for cooling pipe facing	8	BS. 249	
17408/5		Housing, centre	1	DTD. 281	
15302		Joint, flange, combustion chamber face ... (See Ref. No. 125)	16	Klingerit 1000	
N.676		Nut, cap, for impellor clearance pin union ... (See Ref. No. 133)	3	L. 1 or DTD. 423	
A.16Y/JC		Nut, castle, for top accessory box and lifting ring (Section 28M/749)	2	—	
N.429		Nut, for diffuser casing stud (See Ref. No. 126)	16	S. 1	
N.425		Nut, for diffuser casing and rear cover fitting bolt (See Ref. No. 128)	16	S. 1	
N.347		Nut, for diffuser and front casing fitting bolt (See Ref. No. 130)	12	S. 1	
N.341		Nut, mounting bolt, L.H. and R.H. top and bottom (See Ref. No. 132)	4	S. 1	
A.16Y/EP		Nut, plain, for cooling pipe bolts; centre housing; front and rear bearing; top and bottom accessory box; and burner holder studs (Section 28M/756)	135	—	
A.16Y/GP		Nut, plain, for fuel ring connection, centre diffuser and front casing studs (Section 28M/758)	81	—	
A.16Y/JP		Nut, plain, for top accessory box stud ... (Section 28M/760)	2	—	
17149		Pad, extractor, rear cover	4	F.D.P.	
AGS.784/3A		Pin, split, for top accessory box and lifting ring stud (Section 28P/5382)	2	—	
—		Plate, cover, centre housing, group (See Ref. No. 158)	1	—	
—		Plate, sealing, group (See Ref. No. 160)	1	—	

CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Casing, Front, and Centre Housings, Diffuser Casing and Rear Cover, Group (continued)					
AGS.566/F		Plug, blanking, for cabin air supply boss ... (Section 28R/7825)	1	—	
N.2751		Plug, for oil drilling (See Ref. No. 168) ...	2	BS. 249	
N.2749		Plug, for pressure points (See Ref. No. 166) ...	8	S. 1	
19910		Plug, welch, rear cover ...	24	Fin.	
20753/1		Ring, cooling ...	1	DTD. 133B	
AGS.249/13		Screw, countersunk, for centre housing ... (Section 28S/2814)	2	—	
6A.1/2G		Screw, set, for combustion chamber face ... (Section 28D/7405)	96	—	
N.1146		Shim, for diffuser casing stud ... (See Ref. No. 174)	15	Stainless Steel	
21266		Shim, for tail pipe cooling elbow ... (See Ref. No. 834)	4	—	
AGS.885/H		Stud, for bottom accessory box ... (Section 28T/2929)	1	—	
AGS.885/D		Stud, for bottom accessory box and centre housing (Section 28T/2913)	20	—	
N.828		Stud, for burner holder, sealing plate and bottom accessory box (See Ref. No. 176)	83	S. 1	
AGS.886/D		Stud, for centre casing (Section 28T/2914) ...	16	—	
AGS.885/G		Stud, for cooling pipe (Section 28T/2925) ...	4	—	
N.832		Stud, for diffuser casing (See Ref. No. 180) ...	20	S. 1	
AGS.886/L		Stud, for diffuser casing (Section 28T/2946) ...	20	—	
AGS.886/P		Stud, for diffuser casing (Section 28T/2962) ...	8	—	
N.827		Stud, for front bearing housing ... (See Ref. No. 181)	4	S. 1	
N.865		Stud, for front bearing housing ... (See Ref. No. 182)	3	S. 1	
AGS.885/C		Stud, for front bearing housing and top accessory box (Section 28T/2909)	9	—	
N.877		Stud, for front casing (See Ref. No. 184) ...	32	S. 1	
N.885		Stud, for fuel ring connection (See Ref. No. 186)	1	S. 1	
AGS.885/B		Stud, for rear and vertical drive bearing housings (Section 28T/2905)	11	—	
N.840		Stud, for top accessory box (See Ref. No. 188)	2	S. 1	
19773/1		Stud, for top accessory box and lifting ring ... (See Ref. No. 200)	2	S. 1	
2502-49/1		Tab, lockwire, for burner housing stud ... (See Ref. No. 203)	16	S. 3	
N.1997		Union, for impellor clearance pins ...	3	L. 1 or DTD. 423	

CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Casing, Front, and Centre Housings, Diffuser Casing and Rear Cover, Group (continued)					
AGS.567/F		Washer, for cabin air supply boss blanking plug (Section 28W/6721)	1	—	
N.2917		Washer, for diffuser casing and rear cover fitting bolt and nut (See Ref. No. 219)	32	S. 84	
19152		Washer, for centre housing cover plate (See Ref. No. 206)	... 1	Klingerit	
AGS.970/C		Washer, for pressure point plugs (Section 28W/6219)	... 8	—	
N.1141		Washer, for lifting ring stud (See Ref. No. 222)	2	Stainless Steel	
1405-46/2		Washer, plain, for combustion chamber face (Section 36FF/8020)	32	S. 1	
AGS.162/E		Washer, spring, for combustion chamber face, 129 centre and diffuser casings, front casing and fuel ring connection studs (Section 28W/3100)	129	—	
AGS.162/D		Washer, spring, for cooling pipes, cooling ring bolts, centre housing and top and bottom accessory box studs (Section 28W/3099)	102	—	
AGS.586/E		Washer, spring, for front and diffuser casing studs (Section 28W/6309)	63	—	
AGS.586/D		Washer, spring, for sealing plate stud (Section 28W/6308)	... 32	—	
AGS.162/F		Washer, spring, for top accessory box stud (Section 28W/3101)	... 2	—	
N.1383		Washer, tab, for bottom accessory studs (See Ref. No. 248)	... 1	S. 84	
AGS.194/3		Washer, tab, for cooling ring, front and rear bearing housing stud (Section 28L/703)	22	—	
AGS.195/12		Washer, tab, for fitting diffuser, front casing and mounting bolts (Section 28L/691)	16	—	
AGS.194/11		Washer, tab, for impellor clearance pin union (Section 28L/711)	3	—	
N.1580		Washer, tab, for oil drilling plug (See Ref. No. 272)	... 1	BS. 899	
N.1578		Washer, tab, for oil drilling plug (See Ref. No. 982)	... 1	BS. 899	
67	—	‡Casing, Front ; and Centre Housing, Diffuser Casing and Rear Cover, Group This Group is identical with Front Casing Group, Ref. No. 65, except that items part numbers 21788, 21789, 6A.1/8E (4 off) and AGS.885/G are re- placed by the following :—			
6A.1/2E		Bolt, for air cooling pipes (Section 28D/7031)...	4	—	
21790	‡	Casing	1	DTD. 133B	
21791	‡	Casing	1	DTD.133B	
AGS.885C		Stud, for air cooling pipes (Section 28T/2909) ...	4	—	

CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
76	13964/1	Circlip , for diffuser casing dowel bolts ...	16	Piano Wire	C.
1373	2903-7	Circlip , for vertical drive bevel gear ...	2	DTD. 215	—
78	15380	Collar , spacing, for vertical drive ball bearings ...	2	S. 1	C.
80	21572	Connector , for front bearing oil feed ...	1	S. 2	C.
82	15620/1	Connector , for vertical drive oil feed ...	1	S. 1	C.
84	17320	Connector , for vertical drive oil feed ...	1	S. 1	C.
86	13547/1	Cover , retaining, for front bearing housing ...	1	S. 3	B.
90	N.2456	‡ Dowel , for diffuser casing bolt (× .005" oversize) ...	16	S. 1	C.
92	N.2457	‡ Dowel , for diffuser casing bolt (× .010" oversize) ...	—	S. 1	C.
93	N.2437	‡ Dowel , for diffuser casing and rear cover sealing plate ...	3	S. 1	C.
94	N.2458	‡ Dowel , for diffuser casing and rear cover sealing plate (.010" oversize) ...	—	S. 1	C.
96	N.2459	‡ Dowel , for diffuser casing and rear cover sealing plate (.020" oversize) ...	—	S. 1	C.
100	17034A	Elbow , for tail pipe cooling pipe ...	4	DTD. 281	C.
102	16157/5	Gear , driving, for centre housing horizontal drive ...	1	S. 28	A.
104	20147/2	Gear , driving, for centre housing vertical drive ...	2	S. 28	A.
106	15281/5	Housing , front casing, front bearing ...	1	S. 6 or DTD. 214 or Hoyts No. 11	B.
108	13545/1	Housing , for front casing, centre housing, front bearing ...	1	S. 6	B.
110	13549	Housing , front casing, centre housing, rear bearing ...	1	S. 6	B.
122	17458/2	Housing , front casing, vertical drive bearings...	2	S. 6	B.
124	15626/1	Jet, Oil, Vertical Drives, Group ... consisting of :—	1	—	B.
	15623/1	Pillar, banjo ...	1	S. 1	
	15622	Plate, sole ...	1	S. 3	
	15625	Plug... ...	1	S. 1	
	15624	Tube, jet ...	1	T. 26	
125	15302	Joint , flange, combustion chamber face ...	16	Klingerit 1000	C.
133	N.676	Nut , cap, for impellor clearance pin union ...	3	L. 1 or DTD. 423	C.
135	21015	Nut , cap, for thermocouple boss (For use only with old type casings) ...	1	Immaculate 5 or E.D.P. or S. 80 or DTD. 525	C.
†	A.16Y/JC	Nut , castle, for top accessory box and lifting ring stud (Section 28M/749) ...	2	—	
126	N.429	Nut , for diffuser casing studs ...	16	S. 1	

CASING, FRONT ; CENTRE HOUSING ; DIFFUSER

CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off.	Material Specification	Cl. of St.
128	N.425	Nut, for diffuser casing and rear cover fitting bolts ...	16	S. 1	C.
130	N.347	Nut, for diffuser casing and front casing fitting bolts	12	S. 1	C.
132	N.341	Nut, for diffuser casing mounting bolts ...	4	S. 1	C.
†	A.16Y/CP	Nut, for thermocouple boss (Section 28M/5316) (For use only with old type casings)	4	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Casing, Rear, Long Type, with Igniter Plug, Group (continued)					
	17515A	Flange, L.H., for interconnecting elbow ...	1	S. 84	
	17514A	Flange, R.H., for interconnecting elbow ...	1	S. 84	
	20859	Plate, for locating pin boss ...	3	S. 84	
	20994/1	Ring, joint, front end ...	1	F.D.P.	
	20893/1	Ring, joint, rear end ...	1	F.D.P. or DTD. 176A	
	16492/1	Sleeve, for interconnecting elbow ...	2	DTD. 176A or R. 15	
696	20845/4	Casing, Rear, Short Type, Group ... consisting of :—	8	—	B.
	20167/2	Boss, locating pin ...	3	M.S. or S. 1	
	20842A	Casing ...	1	S. 84	
	17515A	Flange, L.H., for interconnecting elbow ...	1	S. 84	
	17514A	Flange, R.H., for interconnecting elbow ...	1	S. 84	
	20859	Plate, for locating pin boss ...	3	S. 84	
	20894/1	Ring, joint, front end ...	1	F.D.P. or R. 15	
	20893/1	Ring, joint, rear end ...	1	F.D.P. or DTD. 176A	
	16492/1	Sleeve, for interconnecting elbow ...	2	DTD. 176A or R. 15	
702	22064	Chamber, Combustion, Nos. 2 and 14, Group ... consisting of :—	2	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678)	14	S. 11	
	N.172	Bolt, short, for front and rear casings (See Ref. No. 679)	2	S. 11	
		Casing, front, short type, group (See Ref. No. 689)	1	—	
	20846/6	Casing, rear, long type, group ... (See Ref. No. 692)	1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 28M/6435)	16	—	
	20376/2	Pin, locating (See Ref. No. 742)	3	S. 1	
	17890	Ring, joint, for front and rear casing (See Ref. No. 744)	1	Oakenstrong	
	21669/1	Scoop and colander with igniter plug, group (See Ref. No. 754)	1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662)	3	S. 3	
	21678	Tube, flame, with igniter plug, group (See Ref. No. 764)	1	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Chamber, Combustion, Nos. 2 and 14, Group (continued)					
	N.1483	Washer, for locating pin (See Ref. No. 770) ...	3	BS. 899	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768) ...	16	—	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216) ...	As reqd.	Stainless Steel	
3730	22067	Chamber, Combustion, Nos. 1, 3, 5, 7, 13 and 15, Group consisting of:—	6	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678) ...	16	S. 11	
	—	Casing, front, long type, group (See Ref. No. 685) ...	1	—	
	20845/4	Casing, rear, short type, group (See Ref. No. 696) ...	1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 25M/6435) ...	16	—	
	20376/2	Pin, locating (See Ref. No. 742) ...	3	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744) ...	1	Oakenstrong	
	21670	Scoop and colander, group (See Ref. No. 750) ...	1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662) ...	3	S. 3	
	21666	Tube, flame, group (See Ref. No. 758) ...	1	—	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768) ...	16	—	
	N.1483	Washer, for locating pins (See Ref. No. 770) ...	3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216) ...	As reqd.	Stainless Steel	
710	22065	Chamber, Combustion, Nos. 4, 6, 12 and 16, Group consisting of:—	4	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678) ...	14	S. 11	
	N.172	Bolt, short, for front and rear casings (See Ref. No. 679) ...	2	S. 11	
	—	Casing, front, short type, group (See Ref. No. 689) ...	1	—	
	20847/4	Casing, rear, long type, group ... (See Ref. No. 690) ...	1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 25M/6435) ...	16	—	
	20376/2	Pin, locating (See Ref. No. 742) ...	3	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744) ...	1	Oakenstrong	
	21670	Scoop and colander, group (See Ref. No. 750) ...	1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662) ...	3	S. 3	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Chamber, Combustion, Nos. 4, 6, 12 and 16, Group)continued)					
	21666	Tube, flame, group (See Ref. No. 758).	... 1	—	
	N.1483	Washer, for locating pins (See Ref. No. 770)	... 3	B.S. 899	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768)	... 16	—	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216)	... As reqd.	Stainless Steel	
714	22066	Chamber, Combustion, Nos. 8 and 10, Group consisting of:—	... 2	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678)	... 14	S. 11	
	N.172	Bolt, short, for front and rear casings (See Ref. No. 679)	... 2	S. 11	
	—	Casing, front, short type, group (See Ref. No. 687)	... 1	—	
	20847/4	Casing, rear, long type, group ... (See Ref. No. 690)	... 1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 25M/6435)	... 16	—	
	20376/2	Pin, locating (See Ref. No. 742)	... 3	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	... 1	Oakenstrong	
	21670	Scoop and colander, group ... (See Ref. No. 750)	... 1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662)	... 3	S. 3	
	21666	Tube, flame, group (See Ref. No. 758)	... 1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	... 3	B.S. 899	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768)	... 16	—	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216)	... As reqd.	Stainless Steel	
719	22068	Chamber, Combustion, No. 9, Group consisting of:—	... 1	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678)	... 16	S. 11	
	—	Casing, front, long type, group (See Ref. No. 681)	... 1	—	
	20845/4	Casing, rear, short type, group (See Ref. No. 692)	... 1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 25N/6435)	... 16	—	
	20376/2	Pin, locating (See Ref. No. 742)	... 3	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	... 1	Oakenstrong	
	21670	Scoop and colander, group ... (See Ref. No. 750)	... 1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662)	... 3	S. 3	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Chamber, Combustion, No. 9 Group (continued)					
	21666	Tube, flame, group (See Ref. No. 758)	... 1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	... 3	B.S. 899	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768)	... 16	—	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216)	... As reqd.	Stainless Steel	
727	22073	Chamber, Combustion, No. 11, Group consisting of:—	... 1	—	A.
	N.160	Bolt, for front and rear casings (See Ref. No. 678)	... 16	S. 11	
	—	Casing, front, long type, group (See Ref. No. 683)	... 1	—	
	20845/4	Casing, rear, short type, group (See Ref. No. 696)	... 1	—	
	A.16Z/CP	Nut, plain, for rear casing bolts (Section 25M/6435)	... 16	—	
	20376/2	Pin, locating (See Ref. No. 742)	... 3	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	... 1	Oakenstrong	
	21670	Scoop and colander, group (See Ref. No. 750)	... 1	—	
	806-96	Tab, lockwire, for locating pins (Section 36FF/662)	... 3	S. 3	
	21666	Tube, flame, group (See Ref. No. 758)	... 1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	... 3	B.S. 899	
	21480	Washer, shakeproof, for rear casing nuts (See Ref. No. 768)	... 16	—	
	—	Wire, locking, 18 S.W.G., for locating pins (Section 30A/2216)	... As reqd.	Stainless Steel	

(For Goblin I and II Engines)

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FLIGHT SERVICING KIT No. 1					
(One Kit per four U.E. Aircraft)					
36FF/4055	T.2200-86	Bar, tommy, for spanner T.2200-62	1	—	A.
36FF/4073	T.2500-37	Spanner, jaw, .605"/.600" by .530"/.525" hex.	2	—	A.
36FF/4072	T.2500-38	Spanner, jaw, .445"/.440" by .324"/.321" hex.	2	—	A.
36FF/4063	T.2500-39	Spanner, Universal, 6 m.m.	1	—	A.
36FF/4066	T.2200-62	Spanner, box, 2 B.A.	1	—	A.
36FF/921	T.800-80	Spanner, jaw, .700"/.697" hex.	1	—	A.
36R/10526	FB.26460	Spanner, jaw	1	—	A.
64KK/3	{WS.1618 or DC.2022 }	Spanner, jaw, $\frac{5}{8}$ " $\times$ $\frac{3}{4}$ "	1	—	A.
64KK/6	{W.1112 or D.1516 }	Spanner, jaw, $\frac{5}{16}$ " $\times$ $\frac{3}{8}$ " Whit.	1	—	A.
64KK/7	{WS.1820 or DC.2224 }	Spanner, jaw, $\frac{3}{4}$ " $\times$ $\frac{7}{8}$ "	1	—	A.
64KK/8	T.22438	Spanner, Generator Nuts	1	—	A.
64KK/5	T.21391	Tool, Group, adjusting pressure relief valve	1	—	A.
FLIGHT SERVICING KIT No. 2					
(One Kit per eight U.E. Aircraft)					
36FF/4057	T.2200-66	Bar, tommy, for burner extractor	1	—	A.
64KK/1	T.21401	Extractors, burner	1	—	A.
64KK/2	T.21375	Jig, Group, for measuring burner	1	—	A.
64KK/4	T.21427	Spanner, Group, for Combustion Chamber	1	—	A.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AIR MINISTRY
September, 1946.

Amendment List No. 1
to
AIR PUBLICATION 4121 A and B.
VOLUME III, PART I,
1st EDITION.
(Complete in 48 sheets).

GOBLIN I ENGINE

SCHEDULE OF SPARE PARTS

NOTES :—Numerical indices are to be altered where necessary. Items that are to be inserted in groups or added as separate items are to be placed in their alphabetical sequence.

Instructions for embodying this Amendment List.

- (1) Undo the binder and lift out the pages to allow the insertion of new pages.
- (2) Embody the A.L. in ink or by cutting out slips and gumming them into the schedule. Add the number of this A.L. to each item altered.
- (3) Sign the Amendment Certificate which is at the front of the Vol. III.

Page 1

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AUTHORITY :—Modification Goblin 78						
STARTER ASSEMBLY						
63	1182	17896	Add an asterisk to the part number and add the following item :—			
63	1183	20632	Shim , laminated, for adjusting starter bevel ...	1	Laminum	C.
ACCESSORY BOX TOP						
85	1512	15378	Add an asterisk to the part number and add the following replacement item :—			
84	1489	20913	Shim , laminated, for vertical shaft pinion ...	1	Laminum	C.
Add the following new items :—						
84	1487	20624	Shim , laminated, for vacuum pump and compressor drive housings	2	Laminum	C.
84	1506	21130	Shim , laminated, for cabin supercharger drive housing	1	Laminum	C.
ACCESSORY BOX BOTTOM						
91	1512	15378	Add an asterisk to the part number and add the following replacement item :—			
90	1489	20913	Shim , laminated, for vertical shaft pinion ...	1	Laminum	C.
91	1652	13656	Add an asterisk to the part number and add the following replacement items :—			
90	1487	20624	Shim , laminated, for fuel pump drive housing	1	Laminum	C.
91	1654	20627	Washer , spacing, for fuel pump driving gear ...	1	S. 1	C.
91	1666	20628	Washer , spacing, for fuel pump driving gear ...	1	S. 1	C.

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Add the following new items :—						
90	1656	21127	Shim , laminated, for oil pump driving gear housing	1	Laminum	C.
90	1658	21128	Shim , laminated, for oil pump driven gear	1	Laminum	C.
90	1452	20623	Shim , laminated, for hydraulic pump drive ...	1	Laminum	C.

AUTHORITY :—Modification Goblin I**NOZZLE RING**

11	306	—	Alter the reference number to 307 and the group details as follows :—			
		17030/6	Amend this part number to read 21171 and add the following item :—			
		21165	Sleeve, screwed, for bearing housing casing	1	S. 6	

AUTHORITY :—Modifications Goblin 2 and 20**NOZZLE RING**

12	316	—	Delete this group, and add the following :—			
12	317	21406	Housing, Bearing, Group 1	—		B.
			consisting of :—			
		13838	Bearing, sealing, front and rear	2	Clevite 35	
		21407	Bearing, sealing, intermediate	1	Clevite 35	
		21827	Housing, sealing	1	S. 6	
		13601	Housing, inner	1	S. 6	
		21215	Plate, extractor, for sealing housing	2	S. 3	
		AS.460-404	Rivet, for sealing housing extractor plate	8	—	

MAIN SHAFT

17	490	15420/12	Delete this item and substitute :—			
17	491	21403	Shaft , extension (Part number 15420/12 modified for use with group Ref. No. 317)	1	S. 2	B.
Add the following item :—						
17	477	21404	Piece , distance, for rear bearing	1	S. 28	C.

AUTHORITY :—Modification Goblin 3**MAIN SHAFT**

17	491	21403	Amend the reference number and part number to read as follows :—			
	491	21403*	}			
	493	21403/3				

AUTHORITY :—Modification Goblin 18**STARTER**

63	1180	19648A/1	}	Delete these items
63	1182	17896*		
63	1183	20632/1		
63	†	17961/6		
Add the following :—				
63	1181	20797		Starter , 24 volt, Rotax type C.3804 1

AP 4121A & B V3 P1 Goblin 1 & 2
Schedule of Spares w AL1-4.pdf || Page 82

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
OIL SYSTEM						
67	194		Place an asterisk in the part number column adjacent to this item and to the description add (For use with type C.3801 Starter only).			
			Add the following new group :—			
67	1207	20457	Pipe, Feed, to Starter, Group 1 — B. (For use with Type C.3804 Starter) consisting of :—			
		N.2221	Banjo 1		S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
		N.2117	Nipple 1		S. 1	
		AGS.1188A	Nut, union 1		—	
		—	Pipe 1		T. 26	
ACCESSORY BOX BOTTOM						
87	1540	17916	Delete the part number and alter the reference number to read 1541			
87	1554	—	Alter the reference number to read 1555 and amend the group details as follows :—			
		17415B/8	Alter this part number to read 20454			
		AGS.884B AGS.162E AGS.884D A.16Y.CP	Delete these items			
		AGS.162C				
			Alter the number off to 6 and the nomenclature to "Washer, spring, for horizontal drive cover (Section 28W/3098)"			
			Add the following item :—			
		AGS.195/2	Washer, tab, for starter coupling (Section 28L/681) ... 8		—	
89	1602	19664A/2	Alter the reference number to 1603, the part number to 20451, and the group details as follows :—			
		15349/1	Alter this part number to read 20444			
		19665A	Alter this part number to read 20452			
90	†	A.16Y.CP	Alter the number off to 14 and the nomenclature to :— Nut, plain, for horizontal drive oil jet, horizontal housing cover studs, and fuel pumps and governor drive bolts (Section 28M/5316)			
91	†	AGS.162C	Alter the number off to 6 and the nomenclature to :— Washer, spring, for horizontal shaft housing nut (Section 28W/3098) Add the following :—			
87	1002	N.2278	Bolt , for oil jet banjo 1		S. 2	C.
87	1542	N.2237	Banjo , for oil jet 1		DTD. 525	C.

Page No.	Ref. No.	Part No.	Nomenclature					No. off	Material Specification	Cl. of St.
88	1564	—	Coupling, for Starter, Group 1 — B.							
			consisting of :—							
		20879/2	Coupling	...	...	...	...	1	—	
		19648A	Pinion	...	...	...	...	1	S. 82	
		AGS.884B	Stud, for horizontal drive oil jet	...	...	...	...	2	—	
			(Section 28T/2904)							
90	1183	20632	Shim , laminated, for adjusting starter pinion					1	Laminum	C.
91	†	1406-42	Washer , for oil jet banjo 2 C. & A. —							
			(Section 36FF/21244)							
92	†	AGS.195/2	Washer , tab, for starter coupling 8 — —							
			(Section 28L/681)							
92	†	AGS.194/2	Washer , tab, for horizontal drive oil jet nuts ... 2 — —							
			(Section 28L/702)							
87	1004	N.2240	Delete these items from the assembly							
90	1064	N.2354								
91	1518	N.1145								
90	1628	19864								
91	1668	19865								
91	†	AGS.884D								
92	†	AGS.162E								

TRANSPORTATION PARTS

Add the following :—

97	1903	21372	Cover , blanking, for starter facing 1 DTD.59A B.
97	134	N.663	Increase the number off from 1 to 2 and to the nomenclature add "and for starter feed banjo"

AUTHORITY :—Modification Goblin 21

ACCESSORY BOX TOP

79	1340	20030	Delete the part number and alter the reference number to read 1341			
			Add the following :—			
79	10	N.123	Bolt , for sealing ring, generator drive gearshaft 1 S. 1 C.			
81	1396	16178/4	Delete this item and substitute :—			
81	1397	21340	Gearshaft, Driven Generator Drive, Group 1 A.			
			consisting of :—			
		N.123	Bolt, for sealing ring (See Ref. No. 10) ... 1 S. 1			
		21343	Gear 1 S. 28			
		A.16Y.CP	Nut, plain, for sealing ring bolt 1 —			
			(Section 28M/5316)			
		21342	Ring, sealing (See Ref. No. 1469) ... 1 Resistexa Black 204			
		21586	Washer, for sealing ring (See Ref. No. 1513) 2 S. 1			
83	1469	21342	Ring , sealing, for generator drive gearshaft ... 1 Resistexa Black 204 C.			
85	1513	21586	Washer , for generator drive gearshaft sealing ring 2 S. 1 C.			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
83	†	A.16Y.CP	Alter the number off to 28 and amend the nomenclature to read :— Nut, plain, for generator drive sealing ring bolts, horizontal shaft housing cover, oil feed jets, tachometer drive housing and top accessory box cover studs (Section 28M/5316) AUTHORITY :—Modification Goblin 31 ACCESSORY BOX TOP			
79	1341	—	Alter the reference number, to read 1343			
80	1366	13922	} Reduce the number off from 2 to 1 Add the following :—			
81	1410	19693/2				
81	1409	21440	Housing, for cabin supercharger drive bearing	1	DTD. 281	B.
83	1476	13824	Delete this item			
AUTHORITY :—Modification Goblin 48 ACCESSORY BOX TOP ASSEMBLY						
79	1343	—	Alter the reference number to read 1344			
83	1464	19884/2	Delete this item and substitute :—			
81	—	AGS.974/5	End, plug, for oil thermometer pocket sleeve ...	1	—	—
84	—	AGS.974/4	Sleeve, for oil thermometer pocket ...	1	—	—
TRANSPORTATION PARTS						
97	†	810-3D/3	Increase the Number off to 2 and the nomenclature to :— Nut, union, for blanking combined drain outlet and thermometer pocket (Section 36FF/6314) Add the following item :—			
7	†	AS.155-1008	Rivet, for thermometer pocket blanking union nut (Section 28Q/4972)	1	—	—
AUTHORITY :—Modification Goblin 59 TRANSPORTATION PARTS						
97	1914	16889A/1.	Delete this item			
97	1900	N.118	Alter the number off to 18 and the nomenclature to :— Bolt, for securing trunnion mounting			×
97	†	AGS.162E	Alter the number off to 18 and the nomenclature to :— Washer, spring, for trunnion mounting (Section 28W/3100)			×
AUTHORITY :—Modification Goblin 45 FRONT CASING						
7	146	17324	Alter reference number to 147 and part number to 21573			

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AUTHORITY :—Modification Goblin 72**OIL SUMP**

19	544	17811/5	Alter this reference number to 545, the part number to 20465, and the group details as follows :—			
		17812/2	Alter this part number to read 20440			
20	580	17815/1	Alter the reference number to 581 and the part number to 20441			
21	600	—	Alter the reference number to 601 and the group details as follows :—			
		17811/5 17815/1 17816	Delete these items			
			Add the following :—			
		20465	Dipstick, oil sump, group (See Ref. No. 545)	...	...	1 —
		20441	Seat, for dipstick (See Ref. No. 581)	...	1	—
23	610	17816	Delete this item			

AUTHORITY :—Modification Goblin 47**COMBUSTION CHAMBERS**

27	680	—	Amend these groups as follows :—			
28	686	—				
		802-59	Alter this part number to read N.2453			

AUTHORITY :—Modification Goblin 35**OIL SYSTEM**

67	192	—	Delete this group and substitute :—			
67	1201	21497	Pipe, Feed to Heywood Compressor, Group consisting of :—	1	—	B.
		N.2246	Banjo	...	...	1 S. 11
		19251	Nipple	...	...	1 S. 1
		16869	Nut, union	...	...	1 S. 1
		—	Pipe	...	...	1 T. 26

ACCESSORY BOX TOP

79	1344	—	Alter the reference number to read 1345 Note.—This change covers the repositioning of compressor housing			
----	------	---	---	--	--	--

AUTHORITY :—Modification Goblin 19**CABIN SUPERCHARGER AND DRIVE ASSEMBLY**

Add the new sheets issued with this amendment list as pages 96(a) to 96(d) inclusive, and alter the list of assemblies to accord

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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ACCESSORY BOX TOP ASSEMBLY

79	1345	—	Alter the reference number to read 1347			
80	1380	17087/2	Delete this item			

TRANSPORTATION PARTS

97	1380	17087	Alter the number off from 1 to 2 and amend the nomenclature to read :— Cover , blanking, for generator and cabin super-charger facings			
----	------	-------	--	--	--	--

OIL SYSTEM

67	1201	21497	To the nomenclature of this item add :— (not required when cabin supercharger is fitted)			
			Add the following :—			
67	1203	21461	Pipe, Feed to Cabin Supercharger Clutch, Group (not supplied with complete engine) consisting of :—	1	—	B.
		N.2220	Banjo	1	S. 1 or S. 6	
		19251	Nipple	1	S. 1	
		16869	Nut, union	1	S. 1	
		—	Pipe	1	T. 26	
		19380	Union, junction	1	S. 1	
67	1205	20478A	Pipe, Feed to Heywood Compressor, Group (Not supplied with complete engine) consisting of :—	1	—	B.
		N.2246	Banjo	1	S. 1 or S. 6	
		19251	Nipple	1	S. 1	
		16869	Nut, union	1	S. 1	
		—	Pipe	1	T. 26	

AUTHORITY :—Modification Goblin 89

NOZZLE RING ASSEMBLY

13	376	N.1941	Alter the number off to 1 and add the following item :—			
13	377	N.2008	Union , for bearing housing oil feed	1	S. 1	C.

OIL SYSTEM ASSEMBLY

68	1208	—	Delete this group and add the following :—			
68	1209	21913	Pipe, Flow Indicator to Rear Bearing, Rear Half, Group consisting of :—	1	—	B.
		N.2117	Nipple	1	S. 1	
		N.2120	Nipple	1	S. 1	
		N.2036	Nut, union	1	S. 1	
		16869/2	Pipe, union	1	S. 1	
		—	Pipe	1	T. 26 and Lagging	

Page No.	Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL AND OIL DRAIN SYSTEM						
76	738	—	Delete this group and add the following :—			
76	1300	21914	Pipe, Rear Bearing to Drain Connection, 1 Group			B.
			consisting of :—			
		N.2117	Nipple	2	S. 1	
		N.2036	Nut, union	2	—	
		—	Pipe	1	T. 26 and Lagging	

AUTHORITY :—Modification Goblin 98

COCKPIT DATA CARD

Add the new sheet issued with this amendment list as page 96(e), and alter the list of assemblies to accord.

AUTHORITY :—Modification Goblin 121

FUEL PUMP AND ADAPTOR

61	1138	21482	Alter the reference number to 1139, the part number to 22128, and the group details as follows :—			
			Alter the type No. of the fuel pump from A260Y to A260Y Mk.1/8, and the reference number to 1147			
62	848	—	Alter the reference number to 1147 and the type number to A260Y Mk.1/8			

AUTHORITY :—Modification Goblin 68

ADDENDUM FOR GOBLIN II ENGINE

Following page 126, insert the Addendum issued with this Amendment List and consisting of Flyleaf Index of Assemblies (Page XIII), and pages 127 to 192 inclusive.

Add the Checking List plates issued with this Amendment List as pages VI(a) and VI(c).

To the Index of Assemblies sheet XI, add the note, "Goblin I Engine" immediately below the heading.

CABIN SUPERCHARGER AND DRIVE CLUTCH

96(a)

A.L.1

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
2	—	CABIN SUPERCHARGER AND DRIVE CLUTCH, ASSEMBLY (Not supplied with complete engine) complete as follows :—			A.
	16794	Anchor, for control valve lever spring ...	1	S. 1 or S. 3	
†	6.A1/1C	Bolt, for lever spring anchor (Section 28D/6998) ...	1	—	—
†	A.15Y/1C	Bolt, for outer cone (Section 28D/7034) ...	6	—	—
4	19153	Clutch, Housing, Group ... consisting of :—	1	—	A.
	16794	Anchor, for control valve lever spring (See Ref. No.)	1	S. 1 or S. 3	
	6A.1/1C	Bolt, for lever spring anchor (Section 28D/6998)	1	—	
	A.15Y/1C	Bolt, for outer cone (Section 28D/7034) ...	6	—	
	16780	Bush, for clutch driving shaft ...	1	DTD. 174	
	16789A	Cone, sliding, inner clutch, group (See Ref. No. 1773)	1	—	
	16784	Cone, outer (See Ref. No. 1774) ...	1	S. 1	
	19914	Coupling, clutch (See Ref. No. 1775) ...	1	S. 1	
	16793	Cover, for control valve casing (See Ref. No. 1778)	1	DTD. 281	
	19028	Lever, control valve, group (See Ref. No. 1776)	1	—	
	21462	Housing ...	1	DTD. 281	
	2218-57	Plugging ...	As reqd.	L. 1	
	N.2261	Plugging ...	As reqd.	L. 1	
	N.663	Nut, cap, for oil feed pillar (See Ref. No. 134)	1	S. 1	
	A.16Y/CP	Nut, plain, for clutch housing, control valve casing cover studs and outer cone bolts (Section 28M/5316)	20	—	
	N.748	Nut, ring, for clutch coupling ... (See Ref. No. 1777)	1	S. 1	
	N.749	Nut, ring, for clutch driving shaft ... (See Ref. No. 1779)	1	S. 1	
	16781	Peg, for clutch driving shaft bush ...	1	S. 1	
	N.2346	Pillar, for oil feed banjo (See Ref. No. 562) ...	1	S. 2	
	AGS.167/12	Pin, taper, for control valve (Section 28P/1282)	1	—	
	16787	Ring, sliding, for cone (See Ref. No. 1780) ...	2	K. 6	
	2106-54	Seal, oil, for control valve (See Ref. No. 1786)	1	—	
	16782	Shaft, driving, for clutch (See Ref. No. 1781)	1	S. 1	
	16788	Spring, for sliding cone (See Ref. No. 1782)	1	DTD. 215	
	16800	Spring, for control valve lever... (See Ref. No. 1783)	1	DTD. 215	
	17943	Stop, for sliding cone (See Ref. No. 1784) ...	1	S. 1	

CABIN SUPERCHARGER AND DRIVE CLUTCH

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Clutch, Housing, Group (continued)					
	AGS.884/C	Stud, for clutch housing (Section 28T/2908)	12	—	
	N.824	Stud, for control valve cover (See Ref. No. 1096)	2	S. 1	
	16792A	Valve, control (See Ref. No. 1785)	1	S. 1	
	1406-42	Washer, for oil feed banjo (Section 36FF/21244)	2	C. & A.	
	N.1597	Washer, lock, for driving shaft nut (See Ref. No. 1787)	1	S. 3 or S. 84	
	N.1389	Washer, lock, for outer cone bolt (See Ref. No. 1788)	1	S. 3 or S. 84	
	N.1087	Washer, packing, for clutch coupling (See Ref. No. 1789)	1	S. 1	
	N.1080	Washer, plain, for anchor. (See Ref. No. 1790)	1	S. 1 or S. 3	
	N.1071	Washer, spacing, for driving shaft (See Ref. No. 1791)	1	S. 1	
	AGS.162/C	Washer, spring, for clutch housing and control valve casing cover nut (Section 28W/3098)	14	—	
	N.1604	Washer, tab, for clutch coupling (See Ref. No. 1792)	1	BS.899	
	2305-8	Washer, tab, for oil feed (Section 36FF/12322)	1	B.15	
	—	Wire, locking, 20 SWG (Section 30A/2037)	As reqd.	Soft Iron	
1773	16789A	Cone, Sliding, Inner Clutch, Group consisting of :—	1	—	B.
	19699	Bush	1	B. 8	
	16785	Cone, sliding	1	S. 1	
	16790	Liner, friction	1	Halo. 2	
	17942	Nut, for spring holder	1	L. 1	
	—	Rivets, for liner (Ferodo type)	4	—	
1774	16784	Cone, outer	1	S. 1	B.
1775	19914	Coupling, clutch	1	S. 1	B.
1778	16793	Cover, for control valve casing	1	DTD. 281	B.
1793	16796A	Hub, for control valve lever	1	S. 1	B.
1794	19027	Lever, arm, for control valve	1	S. 3 or S. 84	B.
1776	19028	Lever, Control Valve, Group consisting of :—	1	—	B.
	12855	Ball, for ball joint	1	S. 2	
	16796A	Hub, for lever (See Ref. No. 1793)	1	S. 1	
	19027	Lever, arm (See Ref. No. 1794)	1	S. 3 or S. 84	
	800-PN.6 A.16Z/CP }	Nut, plain, for lever pin (Section 28M/6435)	1	S. 1	

CABIN SUPERCHARGER AND DRIVE CLUTCH

96(c)
A.L.1

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Lever, Control Valve, Group (continued)					
	16798	Pin, for lever spring (See Ref. No. 1795) ...	1	S. 1	
	16797	Pin, stop, for lever (See Ref. No. 1796) ...	1	S. 1	
134	N.663	Nut, cap, for oil feed pillar ...	1	S. 1	C.
1977	17942	Nut, for inner cone, spring holder ...	1	L. 1	C.
†	A.16Y/CP	Nut, plain, for clutch housing, control valve casing cover studs and outer cone bolts (Section 28M/5316)	20	—	—
†	800-PN.6 A.16Z/CP }	Nut, plain, for control valve lever pin (Section 28M/6435)	1	S. 1	—
1777	N.748	Nut, ring, for clutch coupling ...	1	S. 1	C.
1779	N.749	Nut, ring, for clutch driving shaft ...	1	S. 2	C.
562	N.2346	Pillar, for oil feed banjo ...	1	S. 2	B.
1795	16798	Pin, for control valve lever spring ...	1	S. 1	C.
1796	16797	Pin, stop, for control valve lever ...	1	S. 1	C.
†	AGS.167/12	Pin, taper, for control valve (Section 28P/1282)	1	—	
1780	16787	Ring, sliding, for cone ...	2	K. 6	C.
1786	2106-54	Seal, oil, for control valve ...	1	—	C.
1798	13706	Shaft, driving ...	1	S. 11	B.
1781	16782	Shaft, driving, for clutch ...	1	S. 1	B.
1783	16800	Spring, for control valve lever ...	1	DTD. 215	C.
1782	16788	Spring, for sliding cone ...	1	DTD. 215	C.
1784	17943	Stop, for sliding cone ...	1	S. 1	C.
†	AGS.884/C	Stud, for clutch housing (Section 28T/2908)	12	—	—
1096	N.884	Stud, for control valve cover ...	2	S. 1	C.
†	—	Supercharger, cabin, Marshall type Mk. XXII (M.R.) (Section 37G/2014)	1	—	A.
1785	16792A	Valve, control, for clutch ...	1	S. 1	B.
†	1406-42	Washer, for oil feed banjo (Section 36FF/21244)	2	C. & A.	C.
	21940	Washer, joint, for clutch housing ...	1	Klingerit	C.
1787	N.1597	Washer, lock, for driving shaft nut ...	1	S. 3 or S. 84	C.
1788	N.1389	Washer, lock, for outer cone bolt ...	6	S. 3 or S. 84	C.
1789	N.1087	Washer, packing, for clutch coupling ...	1	S. 1	C.
1801	N.1120	†Washer, packing, for driving gear, .020" thick	As reqd.	S. 1	C.
1802	N.1121	†Washer, packing, for driving gear, .040" thick	As reqd.	S. 1	C.
1803	N.1122	†Washer, packing, for driving gear, .060" thick	As reqd.	S. 1	C.

† Alternative items

CABIN SUPERCHARGER AND DRIVE CLUTCH

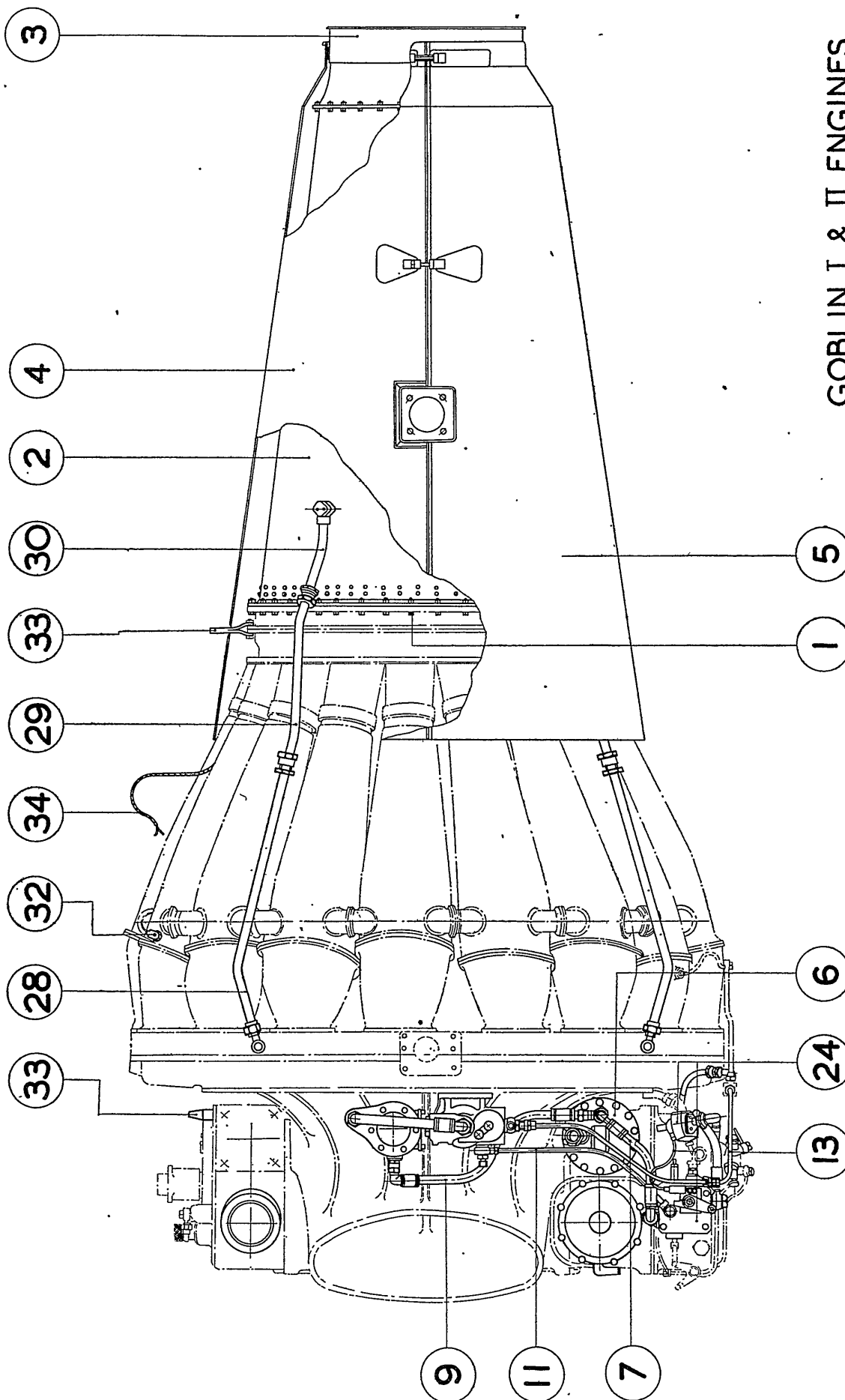
Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1790	N.1080	Washer, plain, for anchor	1	S. 1 or S. 3	C.
1791	N.1071	Washer, spacing, for driving shaft	1	S. 1	C.
†	AGS.162/C	Washer, spring, for clutch housing and control valve casing cover nuts (Section 28W/3098)	14	—	—
1792	N.1604	Washer, tab, for clutch coupling	1	BS. 899	C.
†	2305-8	Washer, tab, for oil feed (Section 36FF/12322)	1	B. 15	—
	—	Wire, locking, 20 SWG (Section 30A/2037) ...	As reqd.	Soft Iron	—

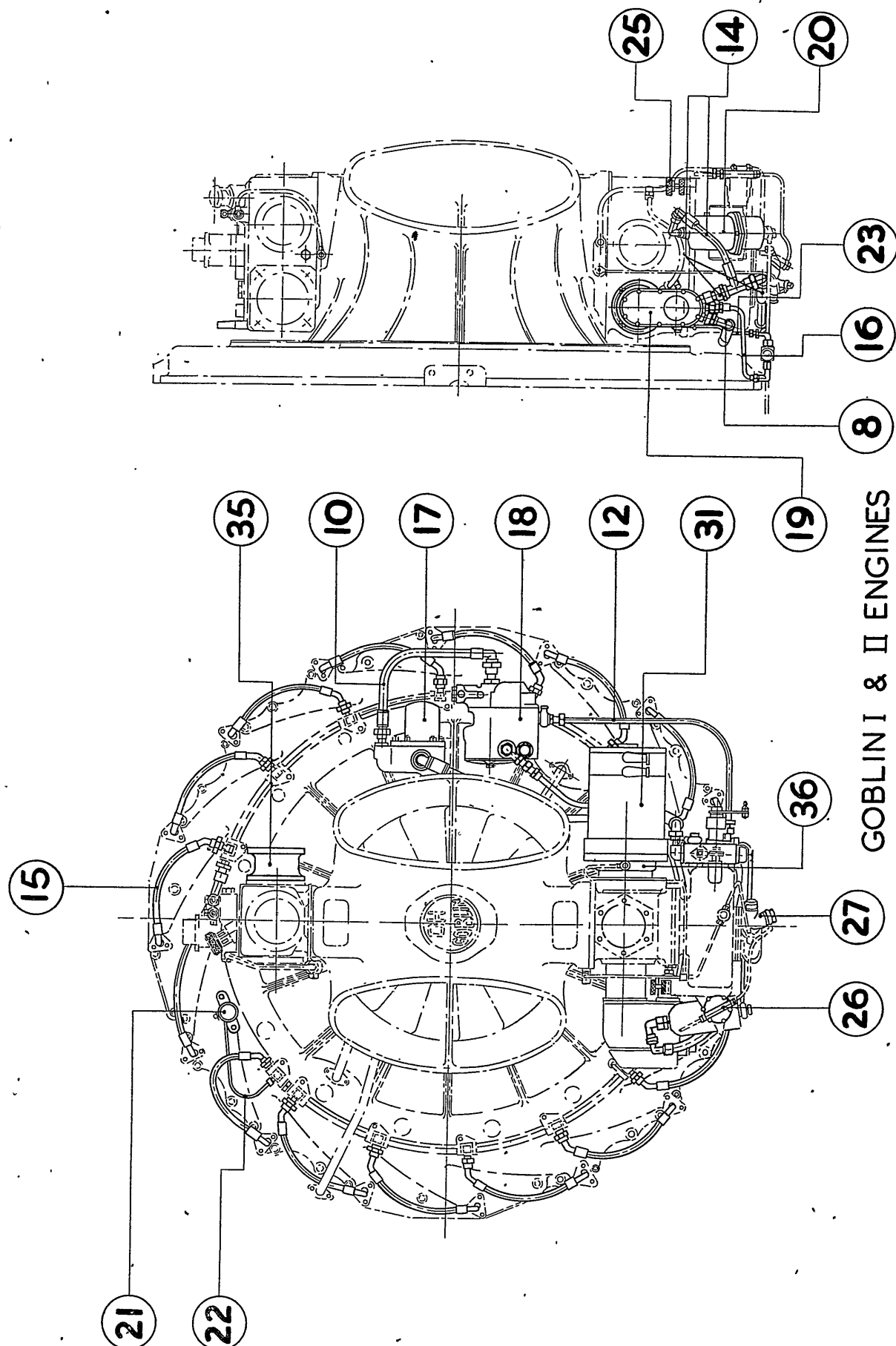
COCKPIT DATA CARD

96(e)
A.L.1

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
COCKPIT DATA CARD (Not supplied with complete engine)					
1800	21799	Card, cockpit data	1	Buckler Board	B.

GOBLIN I & II ENGINES





GOBLIN I & II ENGINES

ADDENDUM I

GOBLIN II ENGINE

INDEX OF ASSEMBLIES.

XIII

GOBLIN II ENGINE

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**CASING, FRONT; CENTRE HOUSING; DIFFUSER
' CASING AND REAR COVER.**

127

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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**CASING, FRONT; CENTRE HOUSING;
DIFFUSER CASING AND REAR COVER
ASSEMBLY**

(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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NOZZLE RING ASSEMBLY
(1 Assembly per Engine)

This Assembly is identical with that used on the
Goblin I Engine, except for the following changes :

Delete :—

290	19808	Blade and Rings, Nozzle, Group ...	...	...	1	—	B.
-----	-------	------------------------------------	-----	-----	---	---	----

Add :—

3290	22201	Blades and Rings, Nozzle, Group ...	...	...	1	—	B.
------	-------	-------------------------------------	-----	-----	---	---	----

This group is identical with Group Ref. No. 290,
except that part number 19834 is deleted as an
alternative item

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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MAIN SHAFT ASSEMBLY

(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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OIL SUMP ASSEMBLY

(1 Assembly per Engine)

This Assembly is identical with that used on the
Goblin I Engine, except for the following changes :

Delete :—

566	17546/2	Plate , blanking, metering pump	...	...	...	1	L. 1	B.
600	—	Sump, Oil, Complete, Group	...	...	...	1	—	A.

Add :—

836	N.2270	Bolt , banjo, metering pump	...	...	...	1	S. 1	C.
842	20003	Pump , metering (Tecalemit type No. 1067A)	...	...	...	1	—	A.
3600	—	Sump, Oil, Complete, Group	...	...	...	1	—	A.

Note.—This group is identical with Group Ref. No.
600, except that item Ref. No. 566 (Plate) is not
required and the quantities required of items Ref.
Nos. 836 (Bolt), 842 (Pump), and 846 (Washer),
are increased to "3," "3," and "6" respectively

846	N.1471	Washer , metering pump banjo bolt	...	...	...	2	BS. 899	C.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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OIL FLOW INDICATOR AND MOUNTING**ASSEMBLY**

(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
COMBUSTION CHAMBER ASSEMBLY (1 Assembly per Engine)					
This Assembly is identical with that used on the Goblin I Engine, except for the following changes :					
<i>Delete :—</i>					
680	—	Casing, Front, Long Type, Group ...	1	—	B.
682	—	Casing, Front, Long Type, Group ...	1	—	B.
716	21746	Chamber, Combustion, No. 9, Group ...	1	—	A.
734	21751	Chamber, Combustion, No. 11, Group ...	1	—	A.
1002	N.2278	Bolt, banjo, No. 11 combustion chamber ...	1	S. 2	C.
1188	N.2230	Banjo, No. 11 combustion chamber ...	1	DTD. 325	C.
739	N.3140	Elbow, No. 11 combustion chamber ...	1	—	C.
†	1406-42	Washer, banjo, No. 11 combustion chamber (Section 36FF/21244)	2	C. & A.	C.
<i>Add :—</i>					
3700		Casing, Front, Long Type, Group ... consisting of :—	1	—	B.
	21761	Casing ...	1	DTD. 133B or DTD. 272	
	N.2453	Dowel, for fuel drain ferrule ...	1	Drawn M.S. Wire	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	N.2516	Ferrule, for fuel drain ...	1	F.D.B.	
	A.16Z.C.P.	Nut, plain, for rear casing studs (Section 18M/6435)	16	—	
	AGS.884B	Stud, for rear casing (Section 28T/2904)	16	—	
	806-96/1	Tab, lockwire, for rear casing studs (Section 36FF/662)	3	S. 3	
	AGS.949A	Union, for minimum pressure valve connection (Section 28V/8109)	1	—	
	AGS.194/5	Washer, tab for union (Section 28L/705)	1	—	
704	21745/1	Chamber, Combustion, No. 11, Group ...	1	—	B.
Note. —Details are as for Combustion Chambers Nos. 1, 3, 5, 7, 13 and 15 shown on Goblin I Engine					
3726	21760	Chamber, Combustion, No. 9, Group ... consisting of :—	1	—	B.
		Casing, front, long type, group (See Ref. No. 3700)	1	—	
	20485/5	Casing, rear, short type, group (See Ref. No. 696)	1	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Chamber, Combustion, No. 9, Group (contd.)					
	20376/2	Pin, locating (See Ref. No. 742)	3	S. 1	
	AGS.166/1	Pin, split, for blanking nipple (Section 28P/1201)	1	—	
	AGS.1140/A	Nipple, blanking, for union (Section)	1	—	
	N.2037	Nut, for blanking nipple (See Ref. No. 741)	1	DTD. 423	
	17890.	Ring, joint, for front and rear casings (See Ref. No. 744)	1	Oaken- strong	
	21670	Scoop and colander, group (See Ref. No. 750)	1	—	
	21666	Tube, flame, group (See Ref. No. 758)	1	—	
	N.2011	Union, for minimum pressure valve connection (See Ref. No. 3792)	1	—	
	AGS.194/5	Washer, tab, for minimum pressure valve union (Section 28L/705)	1	—	
3792	N.2011	Union , for minimum pressure valve ...	1	—	C.
†	AGS.194/5	Washer , tab, for minimum pressure valve union (Section 28L/705)	1	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
COMBUSTION CHAMBER BURNER ASSEMBLY (1 Assembly per Engine)					
814	20099	Joint, for adjusting shim	32	Klingerit	C.
820	21134	Shim, adjusting, for burner	As reqd.	S. 3	C.
		Wire, locking, 18 S.W.G.	As reqd.	Soft Iron	

Note.—For further details see Section 36L.L.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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TAIL PIPE ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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TAIL PIPE FIREGUARD ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
STARTING VALVE AND CONTROL ASSEMBLY (1 Assembly per Engine)					
This Assembly is identical with that used on the Goblin I Engine except for the following changes :					
<i>Delete :—</i>					
950	20347	Plug, adjusting, starting valve	1	S. 1	C.
922	20527	Adaptor, Outlet, Group	1	—	B.
960	20774	Spring, starting valve	1	Spring Steel	C.
938	21512	Diaphragm, Group	1	—	B.
924	—	Body, Starting Valve, Group	1	—	B.
<i>Add :—</i>					
3980	21553	Adaptor, Outlet, Group consisting of :—	1	—	B.
	21555	Adaptor	1	S. 1	
	21554	Nipple	1	S. 1	
	20008	Nut, union	1	S. 1	
3982	—	Body, For Starting Valve, Group consisting of :—	1	—	B.
	21552	Body	1	L. 1	
	A.16Y/EP	Nut, plain, for adaptor studs (Section 28M/756)	4	—	
	N.871	Stud, for inlet adaptor (See Ref. No. 968)	2	S. 1	
	AGS.885C	Stud, for outlet adaptor... .. (Section 28T/2909)	2	—	
	AGS.162D	Washer, spring, for adaptor nut (Section 28W/3099)	4	—	
3996	21773	Diaphragm, Group consisting of :—	1	—	B.
	19717/1	Diaphragm	1	Fabric	
	20345	Pin, locking, for piston	1	M.S.	
	21008	Piston	1	Jessops R.15 or S. 80	
	20015	Washer, clamping... ..	1	S. 1	
	19716	Washer, seating (See Ref. No. 988)	1	Neoprene	
4010	21007	Plug, adjusting, for starting valve	1	S. 1	C.
4022	20984	Spring, inner, for starting valve	1	DTD.215	C.

STARTING VALVE AND CONTROL.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
4024	20983	Spring, outer, for starting valve	1	DTD.215	C.
4040	—	Valve, Starting and Control, Group	1	—	B.
Note.—This Group is identical with Goblin I Engine Group Ref. No. 974, except for items Part Nos. 20527, 21512, 20347, 20774, and Ref. No. 924, which are deleted and the following new items introduced :—					
21553		Adaptor, outlet, group (See Ref. No. 3980)	1	—	
—		Body, for starting valve, group (See Ref. No. 3982)	1	—	
21773		Diaphragm, group (See Ref. No. 3996)	1	—	
21007		Plug, adjusting, for starting valve (See Ref. No. 4010)	1	S. 1	
20984		Spring, inner, for starting valve (See Ref. No. 4022)	1	DTD. 215	
20983		Spring, outer, for starting valve (See Ref. No. 4024)	1	DTD.215	

Ref. No.	Part No.	Nomenclature	No. of	Material Specification	Cl. of St.
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CONTROLS, LINKAGE, ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
4100	21763	FUEL VALVE CONTROLS ASSEMBLY Complete as follows:—	... 1	—	A.
1024	N.2251	Banjo , for barostat connection	1	R. 15 or S. 61	C.
1026	N.2241	Banjo , for control valve vent pipe and control box	2	R. 15 or S. 80	C.
788	N.2228	Banjo , for dump valve drain	1	S. 1	C.
1030	N.2227	Banjo , outlet for cut off valve	1	S. 1	C.
1032	20382/1	Body , for dump valve inlet union	1	S. 1	B.
4102	—	Body, For Fuel Valve Control Group (M.R.) consisting of:—	... 1	—	A.
	21540/3	Body, for fuel valve control	1	L. 1	
	N.2661	Plugging	3	L. 1	
	N.827	Stud, for blanking cover (See Ref. No. 181)	2	S. 1	
	AGS.884/E	Stud, for control valve (Section 28T/)	2	—	
	AGS.885/E	Stud, for cut-off valve housing (Section 28T/2917)	4	—	
	N.843	Stud, for fuel pump connection (See Ref. No. 598)	3	S. 1	
	N.895	Stud, for minimum pressure valve (See Ref. No. 4208)	2	S. 11	
	N.899	Stud, for minimum pressure valve (See Ref. No. 4210)	2	S. 11	
	N.824	Stud, for plunger cover (See Ref. No. 1096)	2	S. 1	
1035	N.2286	Bolt , banjo, for barostat connection	1	S. 2	C.
1002	N.2278	Bolt , banjo, for control valve vent pipe	1	S. 2	C.
1036	N.2282	Bolt , banjo, for cut-off valve outlet	1	S. 1	C.
4104	N.265	Bolt , for bleed screw cover	3	S. 3	C.
1037	21499/2	Bush , for fuel valve control (M.R.)	1	DTD. 197	C.
4106	21028	Bush , for sealing control valve (M.R.)	1	B.S. 250	C.
1038	16864	Circlip , for control valve spindle seal	1	—	C.
1040	16695	Circlip , for control valve sealing	1	Spg. Steel	C.
4130	21030	Collar , for plunger stop	1	S. 1	C.
4134	21025	Collar , for control valve seal	2	L. 1	C.
1046	16865/1	Collar , for control valve spindle seal	1	Alum.	C.
1048	19673/1	Connection , for fuel pump	1	S. 1	C.

FUEL VALVE CONTROL.

Ref. No.	Part No.		No. off	Material Specification	Cl. of St.
1050	20796	Cover, blanking, for control box	1	S. 3	C.
—	21801	Cover, blanking, minimum pressure valve facing control box	1	Comml. Alum.	—
—	21247	Cover, for bleed screw	1	M.S.	—
4144	21563	Cover, for control valve dust seal	1	S. 2 or S. 84	C.
4146	21024	Cover, for control valve plunger	1	S. 1	C.
1053	N.2451	Dowel, locating for cut-off valve (M.R.)	1	Silver Steel	C
1055	N.2452	Dowel, stop, for cut-off valve (M.R.)	1	DTD. 176 or DTD. 525	C.
1054	N.3141	Elbow, for control box minimum pressure valve connection	1	—	C.
1058	21501/1	Housing, fuel cut-off and dump valve	1	DTD. 133 or DTD. 272 or DTD. 276	B.
1060	21502	Joint, for fuel cut-off and dump valve housing	1	Klingerit 1000	C.
1062	20486	Lever, Cut-off Valve, Group consisting of :—	1	—	B.
	12855	Ball, lever	1	S. 2	
	15896	Boss, lever	1	S. 1	
	17412	Lever	1	S. 3	
	800-PN.6	Nut, plain	1	S. 1	
†	AGS.1140/A	Nipple, blanking, for control body banjo pillar (Section 28F/10482)	1	—	—
†	AGS.1140/B	Nipple, blanking, for control body elbow (Section 28F/8212)	1	—	—
1066	N.2119	Nipple, for pressure gauge blanking union	1	B.S. 249	—
4164	20073	Nut, cap, for bleed screw	1	S. 1	C.
1063	21503	Nut, cap, for cut-off valve bush	1	S. 1	—
†	A.16Y/EP	Nut, plain, for control box blanking cover and fuel cut-off valve housing studs (Section 28M/756)	6	—	—
†	A.16Y/CP	Nut, plain, for control valve, plunger cover, minimum pressure valve stud and bleed screw (Section 28M/5316)	4	—	—
†	A.16Y/GP	Nut, plain, for fuel cut-off valve spindle (Section 28M/758)	1	1	—
†	A.16Y/CT	Nut, lock, for fuel pump connection (Section 28L/753)	3	—	—
741	N.2037	Nut, for control body banjo pillar nipple	1	DTD. 423	C.
1069	N.2038	Nut, for control body elbow blanking nipple	1	DTD. 423	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1068	N.354	Nut, lock, for slow running adjusting screw	... 1	S. 1	—
1070	N.2365	Pillar, banjo dump valve	... 1	S. 1	C.
4178	21029	Pin, for control valve plunger	... 1	M.S.	C.
†	AGS.166/1	Pin, split, for blanking nipple ... (Section 28P/1201)	... 1	—	—
†	AGS.166/2	Pin, split, for blanking nipple ... (Section 28P/1203)	... 1	—	—
1074	21513	Plug, for cut-off valve	... 1	DTD. 525	B.
†	AGS.565A	Plug, blanking, for pressure tapping	... 1	—	—
4182	21032/2	Plunger, control valve	... 1	R. 15 or F.D.P.	B.
1078	N.1860	Screw, adjusting slow running	... 1	S. 1	C.
4186	20264	Screw, bleed	... 1	Jessops R. 15 or F.D.P.	C.
1080	RD/SD	Seal, composite for control box outlet banjo	... 1	—	C.
4192	21026	Seal, control valve "Gaco" type No. B.4078	... 2	—	C.
1086	19766	Seal, dump valve	... 1	—	C.
1088	15889/1	Seal, valve spindle "Gaco" type No. B.1433	... 1	—	C.
1089	20380	Seat, for dump valve (M.R.)	... 1	S. 80	C.
1090	21504	Spindle, cut-off valve	... 1	Jessops R. 15	B.
1092	19712	Spring, dump valve	... 1	DTD. 215	C.
†	AGS.884E	Stud, for control valve ... (Section 28T/)	... 2	—	—
181	N.827	Stud, for control valve blanking cover	... 2	S. 1	C.
1096	N.824	Stud, for control valve plunger cover	... 2	S. 1	C.
598	N.843	Stud, for fuel pump connection	... 3	S. 1	C.
†	AGS.885E	Stud, for fuel cut-off valve housing ... (Section 28T/2917)	... 4	—	—
4208	N.895	Stud, for minimum pressure valve, blanking cover ...	2	S. 11	C.
4210	N.899	Stud, for minimum pressure valve, blanking cover ...	2	S. 11	B.
	806-96/1	Tab, lockwire, for plunger cover studs ... (Section 36FF/662)	... 1	S. 3	—
4212	21582	Valve, control	1	B.S. 250	B.
1097	19764	Valve, dump (M.R.)	1	S. 80	B.
1100	—	Valve, Fuel Cut-off Group (M.R.) ... consisting of :—	1	—	B.
	21513	Plug (See Ref. No. 1074)	1	S. 80	
	21498	Valve	1	S. 80	—

FUEL VALVE CONTROL.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
4222	21248A	Washer, for bleed screw cover	1	Klingerit 1000	C.
4224	2319-221	Washer, for bleed screw bolt	3	B. 15	
1102	N.1390	Washer, for control box blanking cover	1	Klingerit 1000	C.
4226	21564	Washer, for control valve	2	S. 3	C.
4228	21565	Washer, for control valve dust seal	1	Felt	C.
†	1406-42	Washer, for control valve vent pipe banjo bolt and pressure tapping blanking plug (Section 36FF/21244)	3	C. & A.	—
1106	N.1472	Washer, for dump valve drain banjo	2	L. 17	C.
1108	20381	Washer, for dump valve seal	1	L. 1	C.
1110	N.1481	Washer, for dump valve seat	2	L. 17	C.
1112	N.1105	Washer, for fuel cut-off valve cap nut	1	L. 17	C.
1114	N.1073	Washer, for fuel cut-off valve spindle seal	1	S. 3	C.
1116	19674A/1	Washer, for fuel pump connection	1	Klingerit 1000	C.
4242	21027	Washer, joint, for control valve	1		C.
4244	21772A	Washer, joint, for minimum pressure valve blanking cover	1		
4246	N.1476	Washer, seal, for cap nut	1	L. 17	C.
†	AGS.162C	Washer, spring, for control valve and plunger cover, fuel pump connection and minimum pressure valve stud (Section 28W/3098)	11	—	—
†	AGS.162D	Washer, spring, for control box blanking cover and fuel cut-off valve housing nuts (Section 28W/3099)	6	—	—
588	N.1607	Washer, tab, for valve spindle nut	1	S. 84	C.
	—	Wire, locking, 20 S.W.G. for fuel cut-off valve cap nut and slow running adjusting screw (Section 30A/2037)	As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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FUEL PUMP AND ADAPTOR ASSEMBLY
(1 Assembly per Engine) .

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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STARTER ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
OVERSPEED GOVERNOR AND DRIVE COUPLING ASSEMBLY complete as follows:—					
4320	21653	Adaptor, governor	1	DTD. 281	B.
1188	N.2230	Banjo, fuel drain... ..	1	DTD. 525	C.
1002	N.2278	Bolt, banjo for fuel drain and oil jet	2	S. 2	C.
†	6A.1/10C	Bolt, for governor (Section 28D/7077)	4	—	—
1200	N.152	Bolt, extension shaft	3	S. 1	C.
1204	17556	Circlip, coupling shaft	1	DTD. 215	C.
4334	13859	Circlip, for oil seal	2	DTD. 215	C.
1210	20644	Connection, outlet	1	S. 1	C.
4340	—	Governor, "Ricardo" Type, Group	1	—	A.
		consisting of:—			
	N.2230	Banjo, fuel drain (See Ref. No. 1188)	1	DTD. 525	
	N.2278	Bolt, banjo, for fuel drain (See Ref. No. 1002)	1	S. 2	
	20644	Connection, outlet (See Ref. No. 1210)	1	S. 1	
	21876	Governor, "Ricardo" type, set to specification D.H.6. E.OB	1	—	
	AGS.627/D	Union, inlet (Section 28V/3782)	1	—	
	AGS.950/A	Union, oil drain (Section 28V/)	1	—	
	1406-42	Washer, for fuel drain banjo and oil drain union (Section 36FF/21244)	3	C. & A.	
	N.1464	Washer, for inlet and outlet connection (See Ref. No. 1156)	2	L. 17	
†	A.16Y/CP	Nut, plain, for extension shaft and governor bolts (Section 28M/5316)	7	S. 1	C.
1166	17550/3	Shaft, coupling	1	S. 11	B.
4352	21299	Shaft, extension	1	S. 11	B.
4356	21153	Seal, oil, for shaft	2	—	C.
4360	21775	Splined Shafts, Group	1	—	B.
		consisting of:—			
	N.152	Bolt, for extension shaft (See Ref. No. 1200)	3	S. 1	
	A.16Y/CP	Nut, plain, for shaft bolt	3	—	
	17550/3	Shaft, coupling (See Ref. No. 1166)	1	S. 11	
	21299	Shaft, extension (See Ref. No. 4352)	1	S. 11	
†	AGS.950/A	Union, for governor oil drain (Section 28V/)	1	—	—
†	AGS.627/D	Union, inlet, for governor (Section 28V/3782)	1	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	AGS.627/A	Union, oil feed (Section 28V/) ...	1	—	—
†	1406-42	Washer, for fuel drain and oil drain union (Section 36FF/21244)	3	C. & A.	C.
1156	N.1464	Washer, for inlet and outlet connection ...	2	L. 17	C.
†	AGS.162/C	Washer, spring, for governor bolts ... (Section 28W/3098)	4	—	—
260	N.1579	Washer, tab, for oil feed union ...	1	BS. 899	C.
†	—	Wire, locking, 20 S.W.G., for banjo bolt ... (Section 30A/2037)	As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
OIL SYSTEM ASSEMBLY					
(1 Assembly per Engine)					
This Assembly is identical with that used on the Goblin I Engine, except for the following changes :					
<i>Delete :—</i>					
190	—	Pipe, Feed to Governor, Group	1	—	B.
<i>Add :—</i>					
4390	N.2102	Nipple , blanking, for pipe to accessory box ...	1	Coml. Brass	C.
4392	2510-15/1	Nut , union, for blanking pipe to accessory box ...	1	B. 13	C.
4396	—	Pipe, Feed to Governor, Group consisting of :—	1	—	B.
	N.2222	Banjo	1	S. 1, S. 6, S. 14, S. 21 or DTD. 299	
	N.2117	Nipple	1	S. 1	
	AGS.1188/A	Nut, union	1		
	21432/1	Pipe	1	T. 26 and Bestobel Lagging	
—		Wire , locking, for accessory box pipe (Section 30A/2037)	As reqd.	Soft Iron	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL SYSTEM ASSEMBLY					
(1 Assembly per Engine)					
This Assembly is identical with that used on the Goblin I Engine, except for the following changes :					
<i>Delete :—</i>					
340	19739/1	Pipe, feed to burner	1	—	B.
342	20717/1	Pipe, feed to burner	15	—	B.
1250	20470A	Pipes, Fuel Ring, Group	1	—	B.
354	—	Pipe, Fuel Ring to Pressure Switch Connection, Group	1	—	B.
<i>Add :—</i>					
4480	21002	Pipe, feed to burner	15	Palmer Silvoflex	B.
4482	21003	Pipe, feed to burner	1	Palmer Silvoflex	B.
4490	21645	Pipes, Fuel Ring, Group Consisting of :—	1	—	B.
	19337/1	Clip, for end connection, L.H. (See Ref. No. 1226)	1	S. 84	
	19338/1	Clip, for end connection, R.H. (See Ref. No. 1228)	1	S. 84	
	19339/2	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection, L.H. (See Ref. No. 1230)	1	S. 84	
	19340/1	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection, R.H. (See Ref. No. 1232)	1	S. 84	
	19341/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection ... (See Ref. No. 1234)	2	S. 84	
	19342/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection, L.H. (See Ref. No. 1236)	1	S. 84	
	19343/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection, R.H. (See Ref. No. 1238)	1	S. 84	
	19344/1	Clip, for $\frac{3}{8}$ " and $\frac{3}{8}$ " connection ... (See Ref. No. 1240)	4	S. 84	
	19081C	Connection, end, for pipe	2	S. 14 or S. 21 or DTD. 229	
	19082C	Connection, pipe, $\frac{1}{4}$ " and $\frac{5}{16}$ "	2		
	19083C	Connection, pipe, $\frac{5}{16}$ " and $\frac{5}{16}$ "	2		
	19084C	Connection, pipe, $\frac{5}{16}$ " and $\frac{3}{8}$ "	2		
	19085C	Connection, pipe, $\frac{3}{8}$ " and $\frac{3}{8}$ "	6		

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Pipe, Fuel Ring to Pressure Switch Connection, Group (contd.)					
	19086A	Connection, pipe, inlet ...	1	S. 14 or S. 21 or DTD. 291	
	19090B	Pipe, $\frac{1}{4}$ " dia. ...	2	Bundylim Tube	
	19091B	Pipe, $\frac{5}{16}$ " dia. ...	4		
	19092B	Pipe, $\frac{3}{8}$ " dia. ...	6		
	19094B	Pipe, $\frac{3}{8}$ " dia., short, L.H. ...	1		
	19093B	Pipe, $\frac{3}{8}$ " dia., short, R.H. ...	1		
	AS.455/303	Rivet, for connection clips (Section 28Q/1919) ...	24	—	
4492	—	Pipe, Fuel Ring to Pressure Switch Connection, Group Consisting of:—	1	—	B.
	19338/1	Clip (See Ref. No. 1228) ...	1	S. 84	
	19081C	Connection ...	1	S. 14 or S. 21 or DTD. 299	
	N.2109	Nipple ...	1	S. 1 or S. 14 or DTD. 299	
	N.2020	Nut, union ...	1	—	
	21795	Pipe ...	1	T. 26	
	AS.455-303	Rivet (Section 28Q/1919) ...	1	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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FUEL AND OIL DRAIN SYSTEM ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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AIR COOLING SYSTEM ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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ACCESSORY BOX, TOP, ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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ACCESSORY BOX, BOTTOM, ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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CENTRE CASING ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of. St.
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GENERATOR DRIVE COUPLING ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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CABIN SUPERCHARGER AND DRIVE
CLUTCH ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

COCKPIT DATA CARD.

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Cockpit Data Card					
(Not supplied with complete engine)					
4500	22034	Card, cockpit data	1	Buckler Board	B.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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TRANSPORTATION PARTS ASSEMBLY
(1 Assembly per Engine)

Note.—This Assembly is identical with that used
on the Goblin I Engine

FUEL SYSTEM ACCUMULATOR, BAROSTAT, AND BURNERS. (ROYAL AIR FORCE SECTION 36LL).

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
ACCUMULATOR, BAROSTAT AND BURNERS ASSEMBLY (1 Assembly per Engine) complete as follows:—					
500	W.7084/1	Accumulator, type A.2	1	—	A.
503	Z.7074/26	Adaptor, for accumulator	1	—	C.
509	Y.7070/180	Adaptor, for barostat drain to atmosphere...	1	—	C.
513	Z.7070/56A	Adaptor, for barostat inlet inlet connection	1	—	C.
515	Y.7070/179	Adaptor, for barostat return to tank connection	1	—	C.
511	Y.7070/178	Banjo, for barostat	1	—	C.
516	Y.7070/176	Banjo, for barostat return to tank connection	1	—	C.
501	Y.7070/194	Barostat, type ACU/M.15	1	—	A.
530	X.17091-34D	Burner, for Nos. 1, 5, 9 and 13 combustion chambers	4	Fin.	A.
528	X.17091-34B	Burner, for Nos. 2, 4, 10, 11 and 12 combustion chambers	5	Fin.	A.
529	X.17091-34C	Burner, for No. 3 combustion chamber	1	Fin.	A.
502	X.17091-34A	Burner, for Nos. 6, 8, 14 and 16 combustion chambers	4	Fin.	A.
531	X.17091-34E	Burner, for Nos. 7 and 15 combustion chambers	2	Fin.	A.
31	Z.7068/176	Cap, dust, for barostat inlet connection	1	—	C.
518	Z.7070/175	Cap, dust, for barostat return to tank connection	1	—	C.
512	Z.7067/45	Cap, protection, for barostat drain to atmosphere	1	—	C.
519	Z.15335/500	Stud, in barostat body	4	—	C.
504	Z.5339/556	Washer, joint, for accumulator	1	—	C.
510	Z.15339/808	Washer, joint, for barostat drain to atmosphere	2	—	C.
514	Y.15339/527A	Washer, joint, for barostat inlet connection	1	—	C.
517	Z.15339/809	Washer, joint, for barostat return to tank connection	2	—	C.

Part No.	Ref. No.	Page No.	Part No.	Ref. No.	Page No.	Part No.	Ref. No.	Page No.
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N.871	—	145				16864	1038	149
N.895	4208	149				16865/1	1046	149
	—	151				17412	—	150
N.899	4210	149				17546/2	566	133
	—	151				17550/3	1166	157
N.1073	1114	152				17556	1204	157
N.1105	1112	152				17890	—	138
N.1390	1102	152				19081C	—	161
N.1464	1156	157						162
		158				19082C	—	161
N.1471	846	133				19083C	—	161
N.1472	1106	152				19084C	—	161
N.1476	4246	152				19085C	—	161
N.1481	1110	152				19086A	—	162
N.1579	260	158				19090B	—	162
N.1607	588	152				19091B	—	162
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N.2011	3792	138				19093B	—	162
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N.2227	1030	149				19673/1	1048	149
N.2228	788	149				19674A/1	1116	152
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		157				19716	—	145
N.2241	1026	149				19717/1	—	145
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N.2270	836	133				19764	1097	151
N.2278	1002	137				19766	1086	151
		149				19808	290	129
		157				20003	842	133
N.2282	1036	149				20008	—	145
N.2286	1035	149				20015	—	145
N.2365	1070	151				20073	4164	150
N.2451	1053	150				20099	814	139
N.2452	1055	150				20264	4186	151
N.2429	—	137				20345	—	145
N.2453	—	137				20347	950	145
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N.2661	—	149				20380	1089	151
N.3140	739	137				20381	1108	152
N.3141	1054	150				20382/1	1032	149
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						20485/5	—	137
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		157				4144	21563	150
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1026	N.2241	149				4164	20073	150
1030	N.2227	149				4178	21029	151
1032	20382/1	149				4182	21023/2	151
1035	N.2286	149				4186	20264	151
1036	N.2278	149				4192	21026	151
1037	21499/2	149				4208	N.895	151
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1053	N.2451	150				4228	21565	152
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RESTRICTED

AIR PUBLICATION 4121 A & B

VOLUME III PART I

PUBLISHED JUNE, 1946

1st EDITION

GOBLIN I ENGINE ADDENDUM

GOBLIN II ENGINE

SCHEDULE OF SPARE PARTS

ENGINE SPARES

FUEL SYSTEM COMPONENTS

AND SPARES (LUCAS)

R.A.F. VOCABULARY SECTION 36KK.

R.A.F. VOCABULARY SECTION 36LL.

AIR MINISTRY

MEMORANDUM OF INSTRUCTIONS

1. **CONTENTS.** This Schedule comprises a complete list of all parts embodied in the GOBLIN I & II ENGINE which have been allocated Stores Ref. 36KK unless otherwise shown.
2. **DEMANDS.** Normally only those parts which have been allocated Ref. Nos. are to be demanded, but if other parts are required the Part Number must be shown on the Demand.
3. **ESTABLISHMENT.** The normal establishment of spares to be maintained in a Station Storehouse is to be in accordance with the procedure laid down in Air Publication 830, Vol. I (War Supplement).
4. **OBSOLESCE STOCK.** An asterisk placed against a part or group of parts indicates that further purchases to that design will not be made but existing stocks are to be used until exhausted.
5. **NUMBER OFF COLUMN.** The number shown against component items within a group indicates the quantity per group.
6. **REPETITIONS.** Parts contained in a group which are also obtainable separately have the reference numbers quoted in parentheses at the end of the Nomenclature.
7. **AMENDMENTS.** Amendments to this Schedule will be published as and when necessary.

Amendment Lists will be numbered consecutively and the Commanding Officer will give the necessary instructions for the upkeep of the Schedule and the completion of the Amendment Certificate.

Where practicable alterations to the Schedule will be made in ink but sometimes it will be found advisable to paste in a portion of the Amendment List.

A summary of all Amendment Lists distributed during each month will be published in Air Ministry Orders.

AMENDMENT CERTIFICATE. The alterations and additions contained in the following amendment lists have been duly embodied in this parts list.

Amendment List		Amendment made by	Date
Number	Date		

AP 4121

AIR MINISTRY CHECKING LIST FOR THE GOBLIN I AND II AERO-ENGINE.

Item No.	Description.	Quantity per Aero-Engine.
1.	Bolts, securing tail pipe	45
2.	Pipe, tail	1
3.	Nozzle, propelling	1
4.	Fire-guard, top half	1
5.	Fire-guard, bottom half	1
6.	Pump, fuel	1
7.	Pipe, fuel feed flexible from pump to control box	1
8.	Pipe, fuel feed flexible from governor to control box	1
9.	Pipe, fuel feed from fuel pump to filter	1
10.	Pipe, fuel feed flexible from filter to barostat	1
11.	Pipe, fuel drain flexible from control box to barostat	1
12.	Pipe, fuel drain flexible from barostat to atmospheric drain	1
13.	Pipe, fuel drain flexible from dump valve to combined drain	1
14.	Pipe, fuel feed flexible from starting valve to governor and accumulator	1
15.	Pipe, fuel feed flexible from fuel ring to burner	16
16.	Pipe, fuel drain flexible from governor to combined drain	1
17.	Filter, fuel	1
18.	Barostat	1
19.	Governor, fuel	1
20.	Accumulator, fuel	1
21.	Switch, fuel pressure	1
22.	Pipe, fuel, rigid, from pressure switch to fuel ring	1
23.	Pipe, oil drain, flexible from governor to combined drain	1
24.	Valves, fuel control and starting, complete with cable	1 set.
25.	Dip-stick, oil level gauge	1
26.	Indicator, oil flow	1
27.	Pump, oil metering (3 off to be accounted for on Goblin II engine)	2
28.	Pipe, cooling tailpipe front portion	4
29.	Pipe, cooling tail pipe intermediate portion	4
30.	Pipe, cooling tail pipe rear portion (fitted to tail pipe)	4
31.	Motor, starter (not to be accounted for when Goblin I Mod. 18 is embodied)	1
32.	Plug, igniter (fitted to Nos. 2 and 14 combustion chambers)	2
33.	Eye, engine lifting (front and rear)	2
34.	Thermo-couple and pyrometer cable, from turbine bearing	1
35.	Adaptor for air compressor	1
36.	Adaptor for starter motor (only to be accounted for when Goblin I Mod. 18 is embodied)	1

ISSUE NUMBER OF CHECKING LIST.

Issue No.	1				
Amendment No.	—				
Date	1st June, 1946				

Note.—The amendment list number quoted above is the latest affecting the checking list and may not necessarily be in numerical order or the latest amendment to the Vol. III.

AIR MINISTRY CHECKING LIST FOR THE GOBLIN I AND II AERO-ENGINE.

This checking list has been prepared to show only those items of a readily detachable nature or about which doubt may exist whether they should form part of, or should be transferred with the engine. The list consequently excludes those other engine components which are not liable to incidental removal, but personnel are not thereby relieved of the responsibility for checking and recording, in accordance with the regulations, discrepancies of such components.

The engine is to be vouched as instructed in A.P. 830, Vol. I, Chapter 17, para. 1, quoting the Air Publication and latest issue number of the checking list.

1. The fitting of an alternative item of different type or part number but falling within the same generic heading of a checking list does not constitute a discrepancy.

2. During storage or transit of the engine, all exposed apertures, pipe ends, unions, etc., are to be suitably blanked off to prevent the ingress of foreign matter.

3. Every effort should be made to despatch the log book with the engine, and the log book should record the shortage of major components.

4. It must be clearly understood that all items included in the checking lists are to be accounted for notwithstanding the fact that certain items may not be required for the specific airframe into which the engine is installed and the relevant issue or receipt vouchers and Forms 530 are to be suitably endorsed to show the shortages. Similar action is to be taken regarding surplus items (Forms 729 are also to be suitably endorsed by the resident Inspector-in-Charge, A.I.D., at contractor's works).

5. The engine is to be transferred complete to checking lists unless instructions are issued to the contrary, or through exceptional circumstances, *e.g.*, parts lost in crash, modifications, etc.

6. The items listed below are not to be regarded as part of, or transferred, with this engine:—

- (i) Cabin supercharger, clutch and feed pipe.
- (ii) Compressor and feed pipes.
- (iii) Generator, for engine speed indicator.
- (iv) Generator, electrical, and driving shaft.
- (v) Hydraulic Pump and drain pipe.
- (vi) Motor starting (See note against item 31 on Checking List).
- (vii) Tool Kit.
- (viii) Vacuum Pump and feed pipe.

Description	No. off	Stores Vocab. Sect. No.	A.P. No.
Accumulator C.A.V. type XD 7005/751	1	36LL	
Barostat , Lucas No.	1	36LL	
Compressor , Heywood type SH6/2	1	37G	1519 (Section 3)
Engine Speed Indicator Generator (M.A.P. Drg. In.491)	1	10KB	1086 (Part 3A)
Generator , type KX.1500 watt, 24 volt	1	5U	1086 (Part 3E)
Hydraulic Pump , Lockheed type Mk. VI	1	37J	1803
Starter , 24 volt, Rotax type C.3801	1	37F	1181
Vacuum Pump , type B3X., Mk. II	1	37J	1519 (Section 4)

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SCHEDULE OF SPARE PARTS FOR THE GOBLIN I ENGINE
ROYAL AIR FORCE SECTION 36KK
CASING, FRONT; CENTRE HOUSING; DIFFUSER CASING
AND REAR COVER.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl ot St.
CASING, FRONT ; CENTRE HOUSING ; DIF- FUSER CASING AND REAR COVER ASSEMBLY. complete as follows :—					
12	N.2232	Banjo , for vertical drives oil jet	1	DTD.525	C.
14	13546	Bearing , ball, front, for front casing (Hoffman type L.S.8, $\frac{3}{4}$ " $\times$ $1\frac{7}{8}$ " $\times$ $\frac{9}{16}$ ")	1	—	B.
16	13548	Bearing , ball, rear, for front casing centre housing (Hoffman type 130, 30 m/m $\times$ 62 m/m $\times$ 16 m/m	1	—	B.
18	13536	Bearing , ball, for front casing centre housing, vertical drives (Hoffman type 125, 25 m/m $\times$ 52 m/m $\times$ 15 m/m	2	—	B.
20	15379	Bearing , ball, for front casing centre housing, vertical drives (Hoffman type L.25 N, 25 m/m $\times$ 52 m/m $\times$ 9 m/m	2	—	B.
22	N.107	† Bolt , for air cooling pipes	4	S. 61 or S. 62 or S. 80	C.
†	6A.1/4E	Bolt , for cooling ring (Section 28D/7082)	14	—	—
†	6A.1/8E	† Bolt , for cooling pipes (Section 28D/7084)	8	—	—
10	N.123	Bolt , for front casing centre housing vertical drives	6	S. 1	C.
24	N.2279	Bolt , banjo, for front bearing connector and oil pillar feeds	2	S. 2	C.
26	16887A/1	Bolt , fitting, short, for diffuser casing and rear cover	8	S. 1	C.
42	16888A/1	Bolt , fitting, long, for diffuser casing and rear cover	8	S. 1	C.
59	16589	Boss , for Thermocouple	1	S. 2 or S. 11	C.
60	20542A/1	Bracket , support, for barostat	1	S. 3	B.
74	—	*Casing, Front, and Centre Housings, Diffuser Casing, and Rear Cover, "A" Group consisting of :—	1	—	A.
	13896/2	Bolt , fitting, for diffuser and front casing	12	S. 2	
	16888A/1	Bolt , fitting, long, for diffuser casing and rear cover (See Ref. No. 42)	8	S. 1	
	16887A/1	Bolt , fitting, short, for diffuser casing and rear cover (See Ref. No. 26)	8	S.1	
	6A.1/8E	Bolt , for cooling pipe (Section 28D/7084)	8	—	
	6A.1/4E	Bolt , for cooling ring (Section 28D/7082)	14	—	
	17250/4	Bolt , mounting, L.H., top and R.H. bottom... ..	2	S. 11	
	17251/4	Bolt , mounting, L.H. bottom and R.H. top... ..	2	S. 11	
	20477/9	† Casing , front	1	DTD. 133B	
	21346	† Casing , front	1	DTD. 133B	
	16587B/11	Casing , diffuser	1	DTD. 281	
	13964/1	... Circlip, dowel, diffuser casing bolts (See Ref. No. 76)	16	Piano Wire	

† Alternatives

2 CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER, "A" GROUP (Contd.)					
20001B/3		Cover, rear	1	DTD. 281	
N.2425		Dowel-bolt, diffuser casing	16	S. 1	
N.2441		Dowel, for centre housing facing ferrule ...	2	Sil. Steel	
N.2432		Dowel, for centre housing	1	S. 1	
N.2438		Dowel, for cooling pipes facing ferrule ...	2	S. 1	
1902-34		Dowel, for combustion chamber and mounting bracket facing ferrules	120	M.S. Wire	
N.2423		Dowel, locating, for front and diffuser casings	2	S. 1	
17034/2		Elbow, for tail pipe cooling pipe (See Ref. No. 832)	4	DTD. 281	
N.2500		Ferrule, for combustion chamber and mounting bracket facings	120	BS. 249	
N.2502		Ferrule, for centre housing facing	2	BS. 249	
N.2512		Ferrule, for cooling pipe facing	8	BS. 249	
17408/5		Housing, centre	1	DTD. 281	
15302		Joint, flange, combustion chamber face (See Ref. No. 125)	16	Klingerite 1000	
N.663		Nut, cap, for impeller clearance pins union... (See Ref. No. 134)	3	S. 1	
A.16Y/JC		Nut, castle, for top accessory box and lifting ring (Section 28M/749)	2	—	
N.429		Nut, for diffuser casing stud (See Ref. No. 126)	16	S. 1	
N.425		Nut, for diffuser casing and rear cover fitting bolt (See Ref. No. 128)	16	S. 1	
N.347		Nut, for diffuser and front casing fitting bolt (See Ref. No. 130)	12	S. 1	
N.341		Nut, mounting bolt, L.H. and R.H. top and bottom (See Ref. No. 132)	4	S. 1	
A.16Y/EP		Nut, plain, for cooling pipe bolts: centre housing: front and rear bearing: top and bottom accessory box: and burner holder studs (Section 28M/756)	135	—	
A.16Y/GP		Nut, plain, for fuel ring connection, centre, diffuser and front casing stud (Section 28M/758)	81	—	
A.16Y/CP		Nut, plain, for thermocouple boss (Section 28M/5316)	4	—	
A.16Y/JP		Nut, plain, for top accessory box stud (Section 28M/760)	2	—	
17149		Pad, extractor, rear cover	4	F.D.P.	
AGS.784/3A		Pin, split, for top accessory box and lifting ring stud (Section 28P/5382)	2	—	
—		Plate, cover, centre housing, group (See Ref. No. 158)	1	—	

‡ Alternatives

CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER, " A " GROUP (Contd.)					
—		Plate, sealing, group ... (See Ref. No. 160)	1	—	
AGS.566/F		Plug, blanking, for cabin air supply boss ... (Section 28R/7825)	1	—	
N.2760		Plug, blanking, for cabin air supply connection ... (See Ref. No. 164)	8	L. 1	
N.2751		Plug, for oil drilling (See Ref. No. 168) ...	2	BS. 249	
N.2749		Plug, for pressure points (See Ref. No. 166) ...	8	S. 1	
19910		Plug, welch, rear cover ...	24	Fin.	
20753/1		Ring, cooling ...	1	DTD. 133B	
AGS.249/13		Screw, countersunk, for centre housing ... (Section 28S/2814)	2	—	
6A.1/2G		Screw, set, for combustion chamber face ... (Section 28D/7405)	96	—	
N.1146		Shim, for diffuser casing stud... (See Ref. No. 174)	15	Stainless Steel	
21266		Shim, for tail pipe cooling elbow ... (See Ref. No. 834)	4	—	
AGS.885/H		Stud, for bottom accessory box ... (Section 28T/2929)	1	—	
AGS.885/D		Stud, for bottom. accessory box and centre ... housing (Section 28T/2913)	20	—	
N.828		Stud, for burner holder, sealing plate and ... bottom accessory box (See Ref. No. 176)	83	S. 1	
AGS.886/D		Stud, for centre casing (Section 28T/2914) ...	16	—	
AGS.885/G		Stud, for cooling pipe (Section 28T/2925) ...	4	—	
N.832		Stud, for diffuser casing ... (See Ref. No. 180)	20	S. 1	
AGS.886/L		Stud, for diffuser casing (Section 28T/2946)...	20	—	
AGS.886/P		Stud, for diffuser casing (Section 28T/2962)...	8	—	
N.827		Stud, for front bearing housing ... (See Ref. No. 181)	4	S. 1	
N.865		Stud, for front bearing housing ... (See Ref. No. 182)	3	S. 1	
AGS.885/C		Stud, for front bearing housing and top acces- sory box (Section 28T/2909)	9	—	
N.877		Stud, for front casing ... (See Ref. No. 184)	32	S. 1	
N.885		Stud, for fuel ring connection... (See Ref. No. 186)	1	S. 1	
AGS.885/B		Stud, for rear and vertical drive bearing ... housings (Section 28T/2905)	11	—	
N.850		Stud, for thermocouple boss ... (See Ref. No. 187)	4	S. 1	
N.840		Stud, for top accessory box ... (See Ref. No. 188)	2	S. 1	

4 CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CASING FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER, " A " GROUP Contd.					
19773/1		Stud, for top accessory box and lifting ring... (See Ref. No. 200)	2	S. 1	
2502-49/1		Tab, lockwire, for burner housing stud ... (See Ref. No. 203)	16	S. 3	
N.1990		Union, for impeller clearance pins ... (See Ref. No. 204)	3	S. 1	
AGS.567/F		Washer, for cabin air supply boss blanking plug (Section 28W/6721)	1	—	
N.1576		Washer, for diffuser casing and rear cover 32 fitting bolt and nut (See Ref. No. 220)	32	S. 84	
19152		Washer, for centre housing cover plate ... (See Ref. No. 206)	1	Klingerit	
AGS.970/C		Washer, for pressure point plugs ... (Section 28W/6219)	8	—	
N.1141		Washer, for lifting ring stud ... (See Ref. No. 222)	2	Stainless Steel	
AGS.194/16		Washer, lock, for cabin air supply connection blanking plug (Section 28L/716)	8	—	
N.2905		Washer, lock, for cap nut ... (See Ref. No. 246)	3	S. 84	
1405-46/2		Washer, plain, for combustion chamber face 32 (Section 36FF/8020)	32	S. 1	
AGS.162/E		Washer, spring, for combustion chamber face, 129 centre and diffuser casings, front casing and fuel ring connection studs (Section 28W/3100)	129	—	
AGS.162/D		Washer, spring, for cooling pipes, cooling ring 102 bolts, centre housing and top and bottom accessory box studs (Section 28W/3099)	102	—	
AGS.586/E		Washer, spring, for front and diffuser casing 63 studs (Section 28W/6309)	63	—	
AGS.586/D		Washer, spring, for sealing plate stud (Section 32 28W/6308)	32	—	
AGS.162/F		Washer, spring, for top accessory box stud ... (Section 28W/3101)	2	—	
AGS.162/C		Washer, spring, for thermocouple boss stud 4 (Section 28W/3098)	4	—	
N.1383		Washer, tab, for bottom accessory studs ... (See Ref. No. 248)	1	S. 84	
AGS.194/3		Washer, tab, for cooling ring, front and 22 rear bearing housing stud (Section 28L/703)	22	—	
N.1549		Washer, tab, for fitting bolt, diffuser and front 12 casing (See Ref. No. 254)	12	S. 84	
AGS.194/5		Washer, tab, for impeller clearance pin union 3 (Section 28L/705)	3	—	
N.1502		Washer, tab, for mounting bolt, L.H. and R.H. 4 top and bottom (See Ref. No. 250)	4	S. 84	
N.1580	...	Washer, tab, for oil drilling plug ... (See Ref. No. 272)	1	BS. 899	
N.1578		Washer, tab, for oil drilling plug ... (See Ref. No. 982)	1	BS. 899	

CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER. 5

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
69	—	*Casing, Front, and Centre Housings ; Diffuser Casing and Rear Cover, " B " Group	1	—	A.
		This Group is identical with Front Casing Group "A," Ref. No. 74, except that items Part No. 6A.1/8E, (4, off), 20477/9, 21346 and AGS. 885/G are replaced as follows :—			
	N.107	Bolt, for air cooling pipes ... (See Ref. No. 22)	4	S. 1, S. 62 or S. 80	
	21290	‡Casing ...	1	DTD. 133B	
	20775/6	‡Casing ...	1	DTD. 133B	
	N.848	Stud, for air cooling pipes ... (See Ref. No. 178)	1	S. 1	
71	—	*Casing, Front ; and Centre Housings ; Diffuser Casing and Rear Cover, " C " Group	1	—	A.
		This Group is identical with Front Casing Group "A," Ref. No. 74, except that items Part No. 20477/9, 21346, N.663, N.1990, N.2905 and AGS.194/5 are replaced as follows :—			
	21648	‡Casing ...	1	DTD. 133B	
	21649	‡Casing ...	1	DTD. 133B	
	802-59	Dowel, for impeller clearance pin union ...	3	M.S. Wire	
	N.676	Nut, cap, for impeller clearance pin union (See Ref. No. 133)	3	L. 1 or DTD. 423	
	N.1997	Union, for impeller clearance pin union ...	3	L. 1 or DTD. 423	
	AGS.194/11	Washer, tab, impeller clearance pin union (Section 28L/711)	3	—	
73	—	Casing, Front ; and Centre Housings ; Diffuser Casing and Rear Cover, " D " Group	1	—	A.
		This Group is identical with Front Casing Group "B," Ref. No. 69, except that items Part No. 21290, 20775/6, N.663, N.1990, N.2905 and AGS.194/5 are replaced as follows :—			
	21646	‡Casing ...	1	DTD. 133B	
	21647	‡Casing ...	1	DTD. 133B	
	802-59	Dowel, for impeller clearance pin union ...	3	M.S. Wire	
	N:676	Nut, cap, for impeller clearance pin union (See Ref. No. 133)	3	L. 1 or DTD. 423	
	N.1997	Union, for impeller clearance pin union ...	3	L. 1 or DTD. 423	
	AGS.194/11	Washer, tab, for impeller clearance pin union (Section 28L/711)	3	—	
76	13964/1	Circlip , for diffuser casing dowel bolts ...	16	Piano Wire	C.
1373	2903-7	Circlip , for vertical drive bevel gear ...	2	DTD. 215	—
78	15380	Collar , spacing, for vertical drive ball bearings ...	2	S. 1	C.
80	21572	Connector , for front bearing oil feed ...	1	S. 2	C.

‡ Alternatives

6 CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
82	15620/1	Connector, for vertical drive oil	1	S. 1	C.
84	17320	Connector, for vertical drive oil feed	1	S. 1	C.
86	13547/1	Cover, retaining, for front bearing housing ...	1	S. 3	B.
90	N.2456	‡Dowel, for diffuser casing bolt (+ .005" oversize) ...	16	S. 1	C.
92	N.2457	‡Dowel, for diffuser casing bolt (+ .010" oversize) ...		S. 1	C.
	N.2437	‡Dowel, for diffuser casing and rear cover sealing plate	3	S. 1	C.
94	N.2458	‡Dowel, for diffuser casing and rear cover sealing plate (.010" oversize)		S. 1	C.
96	N.2459	‡Dowel, for diffuser casing and rear cover sealing plate (.020" oversize)		S. 1	C.
832	17034/2	Elbow, for tail pipe cooling pipe	4	DTD. 281	C.
102	16157/5	Gear, driving, for centre housing horizontal drive...	1	S. 28	A.
104	20147/2	Gear, driving, for centre housing vertical drive ...	2	S. 28	A.
106	15281/5	Housing, front casing, front bearing	1	S. 6 or DTD. 214 or Hoyts No. 11	B.
108	13545/1	Housing, for front casing, centre housing, front bearing	1	S. 6	B.
110	13549	Housing, front casing, centre housing, rear bearing	1	S. 6	B.
122	17458/2	Housing, front casing, vertical drive bearings ...	2	S. 6	B.
124	15626/1	Jet, Oil, Vertical Drives, Group consisting of :—	1	—	B.
	15623/1	Pillar, banjo	1	S. 1	
	15622	Plate, sole	1	S. 3	
	15625	Plug	1	S. 1	
	15624	Tube, jet	1	T. 26	
125	15302	Joint, flange, combustion chamber face	16	Klingerite 1000	C.
133	N.676	Nut, cap, for impeller clearance pin union (For use with Groups Ref. No. "71" and "73")	3	L. 1 or DTD. 423	C.
134	N.663	Nut, cap, for impeller clearance pins union. (For use only with Groups Ref. No. 74 and "69") and verti- cal drive oil connection	5	S. 1	C.
135	21015	Nut, cap for thermocouple boss	1	Immaculate 5 or F.D.P. or S. 80 or DTD. 525	C.
†	A.16Y-JC	Nut, castle, for top accessory box and lifting ring stud (Section 28M/749)	2	—	
126	N.429	Nut, for diffuser casing studs... ..	16	S. 1	C.
128	N.425	Nut, for diffuser casing and rear cover fitting bolts	16	S. 1	C.
130	N.347	Nut, for diffuser casing and front casing fitting bolts	12	S. 1	C.
132	N.341	Nut, for diffuser casing mounting bolts	4	S. 1	C.
†	A.16Y/CP	Nut, for thermocouple boss (Section 28M/5316) ...	4	—	—

‡ Alternatives

CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
136	N.423	Nut, locking, horizontal drive	1	S. 1	C.
†	A.16Y/EP	Nut, plain, for burner holder, centre housing, vertical drive, front and rear bearing housings, cooling pipe, inspection cover, sealing plate, top and bottom accessory box studs (Section 28M/756)	141	—	—
†	A.16Y/GP	Nut, plain, for centre, diffuser, front casing and fuel ring connection studs (Section 28M/758)	81	—	—
†	A.16Y/JP	Nut, plain, top accessory box studs (Section 28M/760)	2	—	—
138	N.345	Nut, retaining, vertical drive oil jet banjo	1	S. 1	C.
140	N.741	Nut, ring, horizontal driving gear	1	S. 1	C.
142	N.742	Nut, ring, vertical drives	2	S. 1	C.
144	15965	Piece, distance, horizontal drive	1	M.S.	C.
146	17324	Pillar, banjo, front bearing oil feed... ..	1	S. 2	C.
†	AGS.784/3A	Pin, split, top accessory box and lifting ring studs ... (Section 28/P5382)	2	—	—
148	—	Pipe, Cooling, Group (for use with Ref. ... No. 69 and 73)	1	—	B.
	20779	Flange	1	S. 3 or S. 84	
	20780	Flange	1	S. 3 or S. 84	
	20777	Pipe	1	T. 26	
150	—	Pipe, Cooling, Group...(for use with Ref. Nos. 69 and 73)	1	—	B.
	20779	Flange	1	S. 3 or S. 84	
	20780	Flange	1	S. 3 or S. 84	
	20778	Pipe	1	T. 26	
152	—	Pipe, Cooling, Group (for use with Ref. Nos 71 and 74)	1	—	B.
	19776/1	Elbow	1	S. 6	
	19777/1	Elbow	1	S. 6	
	19778/2	Pipe	1	T. 26 ^a	
154	—	Pipe, Cooling, Group (for use with Ref. Nos. 71 and 74) and 21649)	1	—	B.
	19776/1	Elbow	1	S. 6	
	19777/1	Elbow	1	S. 6	
	19779/2	Pipe	1	T. 26	
156	17431A	Plate, blanking, vertical drive oil feed connections	1	S. 3	C.

8 CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
158	—	Plate, Cover, Centre Housing, Group ... consisting of :—	1	—	B.
	19151	Plate, cover ...	1	S. 84	
	19523	Plate, stiffening ...	1	S. 84	
159	15280/5	Plate , retaining, front bearing ...	1	S. 84	B.
160	—	Plate, Sealing, Group ... consisting of :—	1	—	B.
	15772D/4	Cover, inspection ...	3	DTD. 281	
	N.2432	Dowel ...	3	S. 1	
	A.16Y/EP	Nut, plain (Section 28M/756) ...	6	—	
	20108B/2	Plate, sealing ...	1	DTD. 281	
	AGS.885/C	Stud (Section 28T/2909) ...	6	—	
	AGS.194/3	Washer, lock (Section 28L/703) ...	6	—	
162	19139/2	Plate , vent, for centre housing ...	1	S. 84	C.
164	N.2760	Plug , blanking, cabin air supply connection ...	8	L. 1	C.
†	AGS.566F	Plug , blanking, for cabin air supply boss ... (Section 28R/7825)	1	—	—
166	N.2749	Plug , for diffuser and front casing pressure points ...	8	S. 1	C.
168	N.2751	Plug , for front casing and oil drilling ...	2	BS. 249	C.
170	19595/1	Ring , lifting ...	1	L. 1	B.
†	AGS.249/13	Screw , countersunk, for centre housing ... (Section 28S/2814)	2	—	—
†	6A.1/2G	Screw , for combustion chamber (Section 21D/7405)	96	—	—
172	15935/1	Shaft , for vertical drive ...	2	S. 28	B.
834	21266	Shim , for cooling pipe, tail pipe elbow ...	4	—	C.
174	N.1146	Shim , for diffuser casing nut... ...	16	Stainless Steel	C.
176	N.828	Stud , for bottom accessory box burner holder and ... sealing plate	83	S. 1	C.
†	AGS.885/H	Stud , for bottom accessory box ... (Section 28T/2929)	1	—	—
†	AGS.885/D	Stud , for bottom accessory and centre housing ... (Section 28T/2913)	20	—	—
†	AGS.886/D	Stud , for centre casing (Section 28T/2914)...	16	—	—
†	AGS.885/G	Stud , for cooling pipe (Section 28T/2925) ...	4	—	—
178	N.848	Stud , cooling pipe ...	4	S. 1	C.
180	N.832	Stud , diffuser casing ...	20	S. 1	C.
†	AGS.886/L	Stud , for diffuser casing (Section 28T/2946)	20	—	—
†	AGS.886/P	Stud , for diffuser casing (Section 28T/2962)	8	—	—
†	AGS.885/C	Stud , for front bearing housing sealing plate, top ... accessory box studs (Section 28T/2909)	15	—	—

CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
181	N.827	Stud , for front bearing housing	4	S. 1	C.
182	N.865	Stud , for front bearing housing	3	S. 1	C.
184	N.877	Stud , for front casing	32	S. 1	C.
186	N.885	Stud , for fuel ring connection	1	S. 1	C.
†	AGS.885/B	Stud , for rear bearing, vertical drive bearing housings (Section 28T/2905)	11	—	—
187	N.850	Stud , for thermocouple boss	4	S. 1	C.
188	N.840	Stud , for top accessory box	2	S. 1	C.
200	19773/1	Stud , for top accessory box and lifting ring... ..	2	S. 1	C.
203	2502-49/1	Tab , lockwire, for burner holder nut	16	S. 3	C.
204	N.1990	*Union , for impeller clearance pins (For use only with Groups Ref. No. 74 and "69")	3	S. 1	C.
230	13552/1	Washer , adjusting, for horizontal drives	1	S. 1 or S. 3	C.
232	15374	Washer , adjusting, for vertical drives	2	S. 1 or S. 3	C.
†	AGS.567/F	Washer , for cabin air supply boss blanking plug (Section 28W/6721)	1	—	—
234	N.2822	Washer , cup, for locking horizontal drive ring nut	1	S. 84	C.
236	N.2838	Washer , cup, for vertical drive ring nut	2	S. 84	C.
206	19152	Washer , for centre housing cover plate	1	Klingerit	C.
220	N.1576	Washer , for diffuser casing and rear cover fitting bolts	32	S. 84	C.
222	N.1141	Washer , for lifting ring	2	Stainless	C.
†	AGS.970/C	Washer , for pressure point plug	4	—	—
226	17326B	Washer , for vertical drive oil feed connector blanking plate	1	Klingerit	C.
†	806-131	Washer , for vertical drive oil jet banjo (Section 36FF/3814)	1	C. & A.	—
†	1406-42	Washer , for vertical drive oil feed and oil jet banjos (Section 36FF/21244)	5	C. & A.	—
238	N.1392	Washer , joint, for cooling pipes	4	Klingerit	C.
240	N.1393	Washer , joint, for cooling pipes	2	Klingerit	C.
†	AGS.194/16	Washer , lock, for cabin air supply connection blanking plug (Section 28L/716)	8	—	—
†	AGS.1138/E	Washer , lock, for cooling pipe elbow (Section 28F/9652)	4	—	—
†	R.2000-203/1	Washer , lock, for centre housing vent plate bolt (Section 36FF/8398)	6	S. 84	—
242	N.1548	Washer , lock, for front bearing oil feed banjo pillar	1	S. 84	C.
†	2300-11	Washer , lock, for front bearing oil feed banjo pillar and bolt (Section 36FF/11044)	4	B. 15	—
246	N.2905	*Washer , lock, for impeller clearance pins nut (For use only with front casings Part No. 20477/9, 21346, 21290 and 20775/6)	3	S. 84	C.
244	N.1102	Washer , plain, for vertical drive ring nut	2	S. 84	C.
†	1405-46	Washer , plain, for combustion chamber (Section 36FF/8020)	32	S. 1	—

† Alternative items

10 CASING, FRONT ; CENTRE HOUSING ; DIFFUSER CASING AND REAR COVER.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	AGS.162/D	Washer , spring, for cooling pipe, cooling ring bolts, burner holder, centre housing and top and bottom accessory box studs (Section 28W/3099)	102	—	—
†	AGS.162/E	Washer , spring, for centre and diffuser casings, front casing, fuel ring connection and combustion chamber face studs (Section 28W/3100)	129	—	—
†	AGS.586/E	Washer , spring, for front and diffuser casing studs (Section 28W/6309)	63	—	—
†	AGS.162/F	Washer , spring, for top accessory box studs (Section 28W/3101)	... 2	—	—
†	AGS.586/D	Washer , spring, for sealing plate stud (Section 28W/6308)	... 32	—	—
†	AGS.162/C	Washer , spring, for thermocouple boss stud (Section 28W/3098)	... 4	—	—
248	N.1383	Washer , tab, for bottom accessory box stud	... 1	S. 84	C.
†	AGS.194/3	Washer , tab, for cooling ring bolt, front and rear and vertical drive bearing housings, sealing plate inspection cover studs (Section 28L/703)	28	—	—
250	N.1602	Washer , tab, for diffuser casing mounting bolt	... 4	S. 84	C.
254	N.1549	Washer , tab, for diffuser and front casing fitting bolt	12	S. 84	C.
260	N.1579	Washer , tab, for front bearing oil feed connector	... 1	BS. 899	C.
272	N.1580	Washer , tab, for front casing oil drilling plug and vertical drive oil feed connector	3	BS. 899	C.
982	N.1578	Washer , tab, for front casing oil drilling plug	... 1	BS. 899	C.
270	N.1568	Washer , tab, for horizontal drive	... 1	S. 84	C.
†	AGS.194/5	*Washer , tab, for impeller clearance pins union (Section 28L/705) (For use only with Groups Ref. No. 74 and "69")	... 3	—	—
†	AGS.194/11	Washer , tab, for impeller clearance pins union (Section 28L/711) (For use with Groups Ref. No. "71" and "73")	... 3	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
NOZZLE RING ASSEMBLY. complete as follows :—					
290	—	Blades and Rings, Nozzle, Group consisting of :—	1	—	B.
	19834	‡Blade, nozzle	77	Jessops G. 17	
	20144	‡Blade, nozzle	77	Jessops G. 18B	
	A.16Z/CP	Nut, plain, for junction pipe studs (Section 28M/6435)	48	—	
	19516A/3	Ring, inner	1	H.R.Crown Max	
	19809/2	‡Ring, outer	1	H.R.Crown Max, bent & welded	
	21204	‡Ring, outer	1	H.R.Crown Max Centri- spun	
	N.869	Stud, for junction pipes (See Ref. No. 370)	48	S. 62	
	N.1594	Washer, tab, for junction pipe nuts (See Ref. No. 388)	24	DTD. 171A	
†	6A.1/1E	Bolt , for bearing housing casing (Section 28D/7240)	8	—	—
†	A.15Z/6E	Bolt , for supporting cylinder ... (Section 28D/7047)	30	—	—
822	21013	Bolt , fitting, for turbine and nozzle shrouds	1	DTD. 176A	C.
292	MR.21013-5	Bolt , fitting, .005" oversize, for turbine	1	DTD. 176A	C.
294	N.134	Bolt , for bearing housing flange	28	S. 80	C.
296	N.133	Bolt , for diaphragm	24	S. 80	C.
830	21012	Bolt , for junction pipes	80	} DTD. 176A	C.
828	21014	Bolt , for tail pipe	45		C.
826	21010	Bolt , for turbine and nozzle shrouds and lifting eye	1		C.
824	21011	Bolt , for turbine and nozzle shrouds	43		C.
306	—	Casing, Bearing Housing, Group... consisting of :—	1	—	B.
	6A.1/1E	Bolt (Section 28D/7240)	8	—	
	17030/6	Casing	1	S. 6	
	17473	Cover, blanking (See Ref. No. 308) ...	2	L. 3	
	A.16Y/EP	Nut, for sealing housing stud (Section 28M/756)	8	—	
	N.827	Stud, for sealing housing (See Ref. No. 181)	8	—	

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Casing, Bearing Housing, Group (cont'd)					
	N.1386	Washer, joint (See Ref. No. 380) ...	4	Klingerit	
	AGS.194/3	Washer, lock, for sealing housing nuts (Section 28L/703) ...	8	—	
	2319-154	Washer, tab (Section 36FF/11452) ...	8	B. 5	
308	17473	Cover , blanking, bearing housing casing ...	2	L. 3	B.
310	13718/5	Diaphragm , rear end ...	1	F.D.P.	B.
312	16003A/3	Eye , lifting, rear ...	1	S. 3	B.
314	15336/2	Flange , bearing housing casing. ...	1	S. 6	B.
316	—	Housing, Bearing, Group ... consisting of :—	1	—	B.
	13838/2	Bearing, sealing, front and rear ...	2	} Clevite 35	
	13837/2	Bearing, sealing, intermediate ...	1		
	13607/5	Housing, sealing ...	1	S. 6	
	13601/6	Housing, inner ...	1	S. 6	
318	13602/4	Housing , sliding, rear bearing ...	1	S. 6	B.
†	A.16Z/CP	Nut , plain, for junction pipe studs ... (Section 28M/6435) ...	48	—	—
†	A.16Z/GP	Nut , for turbine and nozzle shrouds and lifting eye bolt ... (Section 28M/7155) ...	44	—	—
†	A.16Z/JP	Nut , for turbine and nozzle shrouds fitting bolt ... (Section 28M/7156) ...	1	—	—
†	A.16Y/EP	Nut , plain, for sealing housing studs ... (Section 28M/756) ...	8	—	—
†	A.16Z/EP	Nut , plain, for junction pipes bolt, sealing bearing ... housing stud and cylinder bolts (Section 28M/6981) ...	118	—	—
320	16004A	Nut , blanking, for junction pipe pressure connection ...	4	} Immaculate 5 or FDP. or S. 80 or DTD. 525	C.
322	16001A	Nut , blanking, for junction pipe thermocouple con- nection ...	16		C.
†	AGS.166/2	Pin , split, for sliding housing locking ring ... (Section 28P/1203) ...	1	—	—
324	16439A	Pipes, Junction and Supports, Group ... consisting of :—	1	—	B.
	15164/3	Connection, pressure ...	4	} Immaculate 5 or F.D.P.	
	15166/2	Connection, thermocouple ...	16		
	16004A	Nut, blanking, pressure connection ... (See Ref. No. 320) ...	4	} Immaculate 5 or F.D.P. or S. 80 or DTD. 525	
	16001A	Nut, blanking, thermocouple connection ... (See Ref. No. 322) ...	16		
	16436A	Pipe, junction ...	16	Inconel	
	16437A/3	Ring, joint ...	16	F.D.P.	
	20235	Ring, support, inner ...	1	} Immaculate 5 or F.D.P.	
	20239	Ring, support, outer ...	1		

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
326	16579A/3	Plate, insulating, bearing housing	1	S. 85 or DTD. 225	B.
328	15473	Plate, packing, for bearing housing insulating plate	1	DTD. 171A	B.
330	16578	Plate, retaining, for insulating plate	10	Immaculate 5 or F.D.P.	B.
350	15338A	Ring, distance, centre casing	1	DTD. 133B	B.
352	13603/2	Ring, locking, rear bearing sliding housing	1	S. 1 or S. 6	B.
362	N.104	Screw, set, for centre casing	16	S. 2	C.
366	19602A/2	Shroud, nozzle	1	H.R.Crown Max.	B.
368	20795/3	Shroud, turbine... ..	1		B.
370	N.869	Stud, for junction pipes	48	S. 62	C.
181	N.827	Stud, for sealing housing	8	S. 1	C.
203	2502-49/1	Tab, lockwire, for junction pipe bolts	12	S. 3	C.
374	15169A/3	Thermocouple, Rear Bearing, Group consisting of :—	1	—	B.
	15167	Connection	1	BS. 249	
	15190	Plug	1	Red Fibre by Tufnol	
	15189	Spring	1	DTD. 215	
376	N.1941	Union, oil, bearing housing casing	2	S. 1	C.
378	15474	Washer, insulating, for bearing housing	1	Witchan Aircraft Jointing	C.
380	N.1386	Washer, joint, for air pipe and blanking cover	4	Klingerit	C.
†	AGS.194/3	Washer, lock, for sealing housing nuts (Section 28L/703)	8	—	—
†	AGS.194/6	Washer, lock, for centre casing set screw (Section 28L/706)	16	—	—
†	2319-154	Washer, tab, for air pipe and blanking cover bolt (Section 36FF/11452)	8	B. 5	—
382	N.1610	Washer, tab, for bearing housing casing oil union	2	BS. 899	C.
384	N.1587	Washer, tab, for bearing housing flange bolt	13	Inconel	C.
386	N.1588	Washer, tab, for bearing housing flange bolt	1	Inconel	C.
388	N.1594	Washer, tab, for junction pipe nuts... ..	24	DTD. 171A	C.
390	N.1603	Washer, tab, for rear end diaphragm bolt... ..	24	DTD. 171A	C.
392	N.1581	Washer, tab, for supporting cylinder bolt	30	DTD. 171A	C.
394	N.1582	Washer, tab, for supporting cylinder nut	30	DTD. 171A	C.
396	N.1551	Washer, tab, for thermocouple	1	BS. 899	C.
†	—	Wire, locking, 18 S.W.G. for thermocouple cap nuts (Section 30A/)	As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
MAIN SHAFT ASSEMBLY. complete as follows :—					
412	13622/2	Bearing , ball, front	1	—	B.
414	13519/4	Bearing , ball, rear	1	—	B.
416	19831/2	Blade , turbine	83	Nimonic 80	B.
418	13608A/1	‡ Bolt , for extension shaft	12	S. 11	C.
420	MR.13608A/1 -10	‡ Bolt , for extension shaft (.010" oversize)		S. 11	C.
422	MR.13608A/1 -20	‡ Bolt , for extension shaft (.020" oversize)		S. 11	C.
424	MR.13608A/1 -30	‡ Bolt , for extension shaft (.030" oversize)		S. 11	C.
426	15361/5-W	‡ Bolt , for turbine disc (standard size)	8	S. 11	C.
428	15361/5-X	‡ Bolt , for turbine disc (.005" oversize)		S. 11	C.
430	15361/5-Y	‡ Bolt , for turbine disc (.010" oversize)		SI 11	C.
432	15361/5-Z	‡ Bolt , for turbine disc (.015" oversize)		S. 11	C.
434	13635/2	Bush , locating, for hub shaft... ..	1	S. 11	C.
436	15707/1	Circlip , for accessory drive shaft retaining spring stop	1	—	C.
438	15701/2	Circlip , for impeller pivot plug	1	DTD. 215	C.
442	21058/2	Disc, Turbine, Blades and Shaft, Group... consisting of :—	1	—	A.
	19831/2	Blade, turbine (See Ref. No. 416)	83	Nimonic 80	
	15361/5-W	‡ Bolt, for turbine disc (standard size) (See Ref. No. 426)	8	S. 11	
	15361/5-X	‡ Bolt, for turbine disc (.005" oversize) (See Ref. No. 428)		S. 11	
	15361/5-Y	‡ Bolt, for turbine disc (.010" oversize) (See Ref. No. 430)		S. 11	
	15361/5-Z	‡ Bolt, for turbine disc (.015" oversize) (See Ref. No. 432)		S. 11	
	21041/1	‡ Disc, turbine	1	Hecla 153	
	15699/8	‡ Disc, turbine		Jessops H3A	
	15005/3-W	‡ Nut, eccentric, for turbine disc (standard size) (See Ref. No. 464)	2	} DTD. 525 or S. 61	
	15005/3-X	‡ Nut, eccentric, for turbine disc (.005" oversize) (See Ref. No. 466)			
	15003/3-Y	‡ Nut, eccentric, for turbine disc (.010" oversize) (See Ref. No. 468)			
	15005/3-Z	‡ Nut, eccentric, for turbine disc (.015" oversize) (See Ref. No. 470)		DTD. 525 or S. 61	

‡ Alternative

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Disc, Turbine, Blades and Shaft, Group (cont'd)					
N.346		Nut, for turbine disc bolts (See Ref. No. 472)	8	S. 1	
13634A/2		Ring, locking, for turbine disc bolts (See Ref. No. 484)	1	S. 3 or S. 84	
—		Shaft, hub, for turbine disc, group (See Ref. No. 492)	1	—	
N.1601		Washer, tab, for turbine disc nuts (See Ref. No. 518)	4	S. 84	
444	13821/1	‡Dowel, locating, for centre shaft	12	S. 2	C.
446	MR.13821/1 -10	‡Dowel, locating, for centre shaft (.010" oversize)		S. 2	C.
448	MR.13821/1 -20	‡Dowel, locating, for centre shaft (.020" oversize)		S. 2	C.
450	MR.13821/1 -30	‡Dowel, locating, for centre shaft (.030" oversize)		S. 2	C.
452	13617/1	‡Dowel, locating, impeller pivot	4	S. 2	C.
454	MR.13617/1 -10	‡Dowel, locating, impeller pivot (.010" oversize)		S. 2	C.
456	MR.13617/1 -20	‡Dowel, locating, impeller pivot (.020" oversize)		S. 2	C.
458	MR.13617/1 -30	‡Dowel, locating, impeller pivot (.030" oversize)		S. 2	C.
460	—	Impeller, Group consisting of :—	1	—	A.
	15701/2	Circlip, for impeller pivot plug (See Ref. No. 438)	1	—	
	13617/1	Dowel, locating, impeller pivot (See Ref. No. 452)	4	S. 2	
	21040/1	Impeller	1	D.H.E. 203	
	N.580	Nut, castle, for impeller pivot studs (See Ref. No. 462)	4	S. 1	
	AGS.166/3	Pin, split, for impeller pivot studs (Section 28P/1207)	4	—	
	16156/9	Pivot, front, for impeller	1	S. 2	
	21036	Plug, for impeller pivot (See Ref. No. 482)	1	DTD. 423 or L. 34	
	21491	Stud, for impeller pivot (See Ref. No. 506)	4	S. 1	
	AGS.195/4	Washer, lock, for impeller pivot nuts (Section 28L/683)	4	—	
462	N.580	Nut, castle, for impeller pivot studs	4	S. 1	C.

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
464	15005/3-W	‡ Nut, eccentric, for turbine disc (standard size)	2	} DTD. 525 C. or S. 61	
466	15005/3-X	‡ Nut, eccentric, for turbine disc (.005" oversize)	...		
468	15005/3-Y	‡ Nut, eccentric, for turbine disc (.010" oversize)	...		
470	15005/3-Z	‡ Nut, eccentric, for turbine disc (.015" oversize)	...		
†	A.16Y/JP	Nut, plain, for extension shaft bolts (Section 28M/760)	12	—	—
472	N.346	Nut, for turbine disc bolts	8	S. 1	C.
474	N.743	Nut, ring, for hub shaft	1	S. 11	C.
475	N.503	Nut, slotted, for centre shaft studs	12	—	C.
476	15728	Nut, securing, front bearing	1	S. 6	C.
478	15422/2	Piece, distance, for extension shaft	1	S. 6	C.
†	AGS.166/12	Pin, split, for centre shaft stud nuts (Section 28P/1214)	12	—	—
†	AGS.166/2	Pin, split, for impeller pivot stud nuts (Section 28P/1203)	4	—	—
480	MR.16156/9	Pivot, front, oversize, for impeller (M.R.)	1	S. 2	B.
482	21036	Plug, for impeller pivot	1	} DTD. 423 C. or L. 34	C.
484	13634A/2	Ring, locking, for turbine disc bolts	1		
				S. 3 or S. 84	C.
486	16155/1	Shaft, accessory drive	1	S. 2	B.
488	13512/8	Shaft, centre	1	S. 6	B.
490	15420/12	Shaft, extension	1	S. 2	B.
492	—	Shaft, Hub, for Turbine Disc, Group consisting of:—	1	—	B.
	15006/2	Pad, extractor	2	DTD. 255 or 561	
	15421/8	Shaft, hub	1	S. 11	
494	15646	Sleeve, for front bearing	1	S. 1	C.
496	15282/2	Spacer, for front bearing	1	S. 6	C.
498	15729/2	Spring, retaining, for accessory drive shaft	1	DTD. 215	C.
500	15645	Stop, for accessory drive shaft retaining spring	1	S. 84	C.
502	21492	‡ Stud, for centre shaft	12	S. 11	C.
504	MR.21492 -7	‡ Stud, for centre shaft (.007" oversize)	...	S. 11	C.
506	21491	‡ Stud, for impeller pivot	4	S. 11	C.
508	MR.21491 -7	‡ Stud, for impeller pivot (.007" oversize)	...	S. 11	C.
510	N.2820	Washer, cup, for locking hub shaft ring nut	1	S. 84	C.

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
512	13822/2	Washer , for centre shaft nuts	12	S. 1 or S. 3	C.
†	AGS.195/4	Washer , lock, for impeller pivot nuts (Section 28L/683)	4	—	—
†	AGS.194/10	Washer , lock, for centre shaft nuts (Section 28L/710)	12	—	—
514	N.2827	Washer , locking, for front bearing nut	1	S. 84	C.
516	N.1606	Washer , tab, for extension shaft nuts	6	S. 84	C.
518	N.1601	Washer , tab, for turbine disc nuts	4	S. 84	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
OIL SUMP ASSEMBLY. complete as follows :—					
530	N.2245	Banjo , for oil sump pillar	1	S. 1	C.
836	N.2270	Bolt , banjo, for metering pump	2	S. 1	C.
532	N.135	Bolt , fitting, for oil pump cover and housing ...	2	S. 1	C.
534	13613/1	Circlip , for oil pump drive coupling sleeve ...	1	DTD. 215	C.
536	13587	Circlip , for pressure filter overload valve seating washer	1	DTD. 215	C.
538	13575/2	Cover , for pressure oil filter	1	DTD. 281	B.
540	17577	Cover , for pressure relief valve adjusting screw ...	1	S. 1	C.
542	17286	Cover , suction oil filter	1	DTD. 281	B.
544	17811/5	Dipstick, Oil Sump, Group consisting of :—	1	—	B.
	17812/2	Dipstick	1	S. 1	
	17813/1	Knob	1	L.1 or DTD. 423	
	17814/1	Nut, locking	1	L. 1	
	AGS.167/11	Pin, taper	1	—	
546	—	Filter, Housing and Support, Overload Oil Pressure Valve, Group consisting of :—	1	—	B.
	13587	Circlip (See Ref. No. 536)	1	DTD. 215	
	13028/3	Filter (Tecalemit type No. F.G.2301) (See Ref. No. 840)	1	—	
	—	Gauze—120 mesh × 42 S.W.G.	As reqd.	Copper or Brass	
	13589/6	Housing	1	S. 1	
	13577A	Plate, end, top	1	S. 1	
	13577A	Plate, end, bottom (See Ref. No. 568)	1	S. 1	
	17155/1	Rivet	1	L. 1	
	13036	Spring	1	DTD. 5A	
	13585	Spring, overload valve (See Ref. No. 592)	1	DTD. 215	
	13576/1	Tube, support	1	T. 26	
	13586/2	Valve, overload (See Ref. No. 606) ...	1	S. 1	
	N.1091	Washer (See Ref. No. 614)	1	S. 3	
	—	Wire, retaining—14 S.W.G.—filter ...	As reqd.	M.S.	
548	N.2516	Ferrule , for oil sump pillar/banjo	1	F.D.P.	C.
†	1906-47	Filter , suction oil (Section 36FF/24530) ...	1	B. 15 and Brass	—
840	13028/3	Filter , pressure oil (Tecalemit type No. F.G.2301)	1	—	B.

OIL SUMP

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
550	13572A/1	Gear, driven, for oil pump	1	S. 11	A.
552	17284/1	Gear, driving, for oil pump	1	S. 11	A.
554	20153/3	Housing and Gears, for Oil Pump, Group consisting of:—	1	—	A.
	N.135	Bolt, fitting (See Ref. No. 532)	2	S. 1 DTD. 281	
	20152/5	Cover	1	DTD. 281	
	13572A	Gear, driven (See Ref. No. 550)	1	S. 11	
	17284/1	Gear, driving (See Ref. No. 552)	1	S. 11	
	17288/8	Housing	1	DTD. 281	
	A.16Y/CP	Nut (Section 28M/5316)	2	—	
	AGS.194/2	Washer, tab (Section 28L/702)	4	—	
556	17578/2	Housing , for pressure relief valve	1	S. 1	B.
†	A.16Y/EP	Nut , for accumulator, control box, oil pump cover, 22 housing and pressure oil filter cover stud (Section 28M/756)	—	—	—
134	N.663	Nut , cap, for oil pump cover and oil sump	2	S. 1	C.
†	A.16Y/CP	Nut , for metering pump, blanking plate, oil pump 13 cover and housing, and suction oil filter cover stud (Section 28M/5316)	—	—	—
126	N.429	Nut , pressure relief valve housing	1	S. 1	C.
562	N.2346	Pillar , banjo, for oil pump cover	1	S. 2	C.
564	N.2361	Pillar , banjo, for oil sump	1	S. 2	C.
566	17546/2	Plate , blanking, for metering pump	1	L. 1	B.
568	13577A	Plate , end, bottom, for pressure oil filter	1	S. 1	B.
570	N.2767	Plug , drain, for oil sump	1	L. 1	C.
572	N.2755	Plug , for oil sump	1	L. 1	C.
842	20003	Pump , metering (Tecalemit type No. 1067A)	2	—	A.
844	20272	Ring , sealing, for metering pump and blanking plate	3	—	C.
578	17576/1	Screw , adjusting, for pressure relief valve	1	S. 1	C.
580	17815/1	Seat , dipstick	1	L. 1	C.
582	20056	Seat , for oil sump drain valve	1	S. 1	C.
584	13569/1	Shaft , for driving oil pump	1	S. 11	B.
586	13570/1	Sleeve , for oil pump drive coupling... ..	1	S. 1	B.
590	13592	Spring , for oil sump drain valve	1	DTD. 215	C.
592	13585	Spring , for pressure filter overload valve	1	DTD. 215	C.
594	17580	Spring , for pressure relief valve	1	DTD. 5A	C.
†	AGS.885/B	Stud , for accumulator bracket (Section 28T/2905)	4	—	—
596	N.847	Stud , for control box	3	S. 1	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Sump—Oil, Complete, Group (continued)					
†	AGS.884/D	Stud , for metering pump and blanking plate (Section 28T/2912)	... 6	—	—
†	AGS.885/C	Stud , for pressure oil filter cover ... (Section 28T/2909)	... 6	—	—
†	AGS.885/D	Stud , for oil pump cover and housing (Section 28T/2913)	... 8	—	—
598	N.843	Stud , for suction oil filter cover ...	... 5	S. 1	C.
600	—	Sump,—Oil, Complete, Group ... consisting of:—	... 1	—	A.
	N.2245	Banjo, for oil sump pillar ... (See Ref. No. 530)	... 1	S. 1	
	N.2270	Bolt, banjo, for metering pump ... (See Ref. No. 836)	... 2	S. 1	
	13575/2	Cover, for pressure oil filter ... (See Ref. No. 538)	... 1	DTD. 281	
	17577	Cover, for pressure relief valve adjusting screw (See Ref. No. 540)	1	S. 1	
	17286	Cover, for suction oil filter ... (See Ref. No. 542)	... 1	DTD. 821	
	17811/5	Dipstick, oil sump, group ... (See Ref. No. 544)	... 1	—	
	—	Filter, housing and support, overload oil pres- sure valve, group (See Ref. No. 546)	1	—	
	1906-47	Filter, suction oil (Section 36FF/24530)	... 1	B. 15 and Brass Gauze	
	20153/3	Housing and gears, for oil pump, group ... (See Ref. No. 554)	... 1	—	
	17578/2	Housing for pressure relief valve ... (See Ref. No. 556)	... 1	S. 1	
	N.663	Nut, cap, for oil pump cover and oil sump ... (See Ref. No. 134)	... 2	S. 1	
	A.16Y/CP	Nut, for metering pump ... (Section 28M/5316)	... 2	—	
	N.2346	Pillar, banjo, for oil pump cover ... (See Ref. No. 562)	... 1	S. 2	
	N.2361	Pillar, banjo, for oil sump ... (See Ref. No. 564)	... 1	S. 2	
	17546/2	Plate, blanking, for metering pump facing ... (See Ref. No. 566)	1	L. 1	
	N.2666	Plug, for oil sump ...	... As reqd.	L. 17	
	N.2755	Plug, for oil sump (See Ref. No. 572)	... 1	L. 1	
	20003	Pump, metering, Tecalemit type No. 1067A (See Ref. No. 842)	2	—	
	20272	Ring, sealing, for metering pump ... (See Ref. No. 844)	... 3	Rubber DTD. 620 or DTD. 44D	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Sump, Oil, Complete, Group (cont'd)					
—	17576/1	Screw, adjusting, for pressure relief valve ... (See Ref. No. 578)	1	S. 1	
	17815/1	Seat, for dipstick (See Ref. No. 580)	... 1	L. 1	
	20056	Seat, for oil sump drain valve ... (See Ref. No. 582)	... 1	S. 1	
	13592	Spring, for oil sump drain valve ... (See Ref. No. 590).	... 1	DTD. 215	
	17580	Spring, for pressure relief valve ... (See Ref. No. 594)	... 1	DTD. 5A	
—		Sump, oil, group (See Ref. No. 602)	... 1	—	
	17276A	Valve, oil sump drain ... (See Ref. No. 604)	... 1	S. 1	
	17579/2	Valve, pressure relief ... (See Ref. No. 608)	... 1	S. 1	
	17816	Washer, dipstick seating ... (See Ref. No. 610)	... 1	Dermatine No. 1 or Nordoil DIX. 2932	
	N.1471	Washer, for metering pump banjo bolt ... (See Ref. No. 846)	... 4	BS. 899	
	1406-42	Washer, for oil pump cover and oil sump banjo (Section 36FF/21244)	4	C. & A.	
	N.1478	Washer, for pressure relief valve cover adjusting screw (See Ref. No. 616)	1	BS. 899	
	N.1589	Washer, lock, for dipstick seat ... (See Ref. No. 618)	... 1	BS. 899	
	N.1617	Washer, lock, for oil pump cover and oil sump banjo (See Ref. No. 622)	2	BS. 899	
	AGS.162/D	Washer, spring, for accumulator bracket, con- trol box, oil pump cover, housing and pres- sure oil filter cover studs (Section 28W/3099)	22	—	
	AGS.162/C	Washer, spring, for metering pump stud ... (Section 28W/3098)	... 2	—	
	AGS.194/2	Washer, tab, for oil pump cover stud and metering pump bolt (Section 28L/702)	4	—	
—		Wire, locking, 20 S.W.G., for metering pump As banjo bolt, oil pump cover and oil sump reqd., banjo pillar cap nuts (Section 30A/1039)		Soft Iron	
602	—	Sump, Oil, Group ... consisting of:—	... 1	—	A.
	N.2516	Ferrule, for oil sump banjo ... (See Ref. No. 548)	... 1	F.D.P.	
	A.16Y/EP	Nut, for accumulator, control box oil pump cover and housing and pressure oil filter cover (Section 28M/756)	22	—	
	A.16Y/CP	Nut, for blanking plate and suction oil filter cover (Section 28M/5316)	9	—	
	N.429	Nut for pressure relief valve housing... (See Ref. No. 126)	... 1	S. 1	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Sump, Oil, Group (cont'd)					
	N.2767	Plug, drain, for oil sump (See Ref. No. 570)	1	L. 1	
	N.2664	Plug for pressure relief valve seat and oil sump	1	L. 1	
	13583	Screw, locking, for pressure relief valve seat	1	S. 1	
	13579/3	Seat for pressure relief valve ...	1	90/10 Alum Bronze or DTD. 160	
	AGS.885/B	Stud, for accumulator bracket (Section 28T/2905)	4	—	
	N.847	Stud, for control box ... (See Ref. No. 596)	3	S. 1	
	AGS.884/D	Stud, for metering pump and blanking plate (Section 28T/2912)	6	—	
	AGS.885/D	Stud, for oil pump cover and housing (Section 28T/2913)	8	—	
	AGS.885/C	Stud, for pressure oil filter cover ... (Section 28T/2909)	6	—	
	N.843	Stud, for suction oil filter cover (See Ref. No. 598)	5	S. 1	
	17496B/5	Sump, oil ...	1	DTD. 281	
	N.1590	Washer, lock, for oil sump drain plug (See Ref. No. 624)	1	BS. 899	
	AGS.162/C	Washer, spring, for blanking plate and suction oil filter cover studs (Section 28W/3098)	9	—	
	AGS.194/22	Washer, tab, for oil drain plug ... (Section 28L/722)	1	—	
	AGS.194/2	Washer, tab, for pressure relief valve locking screw (Section 28L/702)	1	—	
	N.1596	Washer, tab, for pressure relief valve housing nut (See Ref. No. 626)	1	BS. 899	
604	17276A	Valve, oil sump drain ...	1	S. 1	B.
606	13586/2	Valve, pressure filter overload ...	1	S. 1	B.
608	17579/2	Valve, pressure relief ...	1	S. 1	B.
610	17816	Washer, dipstick seating ...	1	Dermatine No. 1 or Nordoil DIX. 2932	C.
846	N.1471	Washer, for metering pump banjo bolt ...	4	BS. 899	C.
†	1406-42	Washer, for oil pump cover and oil sump banjos ... (Section 36FF/21244)	4	C. & A.	—
614	N.1091	Washer, for pressure filter overload valve seating	1	S. 3	C.
616	N.1478	Washer, for pressure relief valve cover adjusting screw	1	BS. 899	C.
618	N.1589	Washer, lock, for dipstick seat ...	1	BS. 899	C.
622	N.1617	Washer, lock, for oil pump cover and oil sump banjos	2	BS. 899	C.
624	N.1590	Washer, lock, for oil sump plug ...	1	BS. 899	C.

OIL SUMP

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	AGS.162/C	Washer, spring, for metering pump, blanking plate and suction oil filter cover studs (Section 28W/3098)	11	—	—
†	AGS.162/D	Washer, spring, for accumulator bracket, control box, oil pump cover, housing and pressure oil filter cover studs (Section 28W/3099)	22	—	—
†	AGS.194/2	Washer, tab, for oil pump cover and housing fitting bolt, oil sump and pressure relief valve locking screw (Section 28L/702)	5	—	—
†	AGS.194/22	Washer, tab, oil drain plug (Section 28L/722)	1	—	—
626	N.1596	Washer, tab, for pressure relief valve housing	1	BS. 899	C.
†	—	Wire, locking, 20 S.W.G., for metering pump banjo bolt, oil pump cover, and oil sump banjo pillar cap nuts (Section 30A/ 1039)	As reqd.	Soft Iron	—
—	—	Wire, retaining, 14 S.W.G., for pressure oil filter...	As reqd.	M.S.	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
440	—	OIL FLOW INDICATOR AND MOUNTING ASSEMBLY. complete as follows :—			
640	20275	Bolt , for mounting bracket	4	S. 1	C.
†	6A.1/3B	Bolt , for housing cover (Section 28D/7016) ...	6	—	—
642	20061	Bracket , mounting	1	S. 3 or S. 84	B.
644	17856	Circlip , Seeger type, for inspection cover ...	1	—	C.
646	17847A/3	Contacts and Housing, Group consisting of :—	1	—	B.
	17852	Contact	2	} Silver	
	17853/1	Contact	1		
	AGS.1584/D	Nut, lock for adjusting screws	2	—	
	17848/1	Plate, contact	1	Tufnol	
	AGS.244/19	Screw, for contact spring	3	—	
	17855	Screw, long, for adjusting contacts	1	} BS. 249	
	17854	Screw, short, for adjusting contacts	1		
	17851/2	Spring, for centre contact	1	} Phosphor Bronze High Tin Spring	
	17849A/2	Spring, for high pressure contact	1		
	17850A/2	Spring, for low pressure contact	1		
648	17846	Cover , for housing	1	DTD. 281	B.
650	—	Cover, Inspection, Group consisting of :—	1	—	B.
	17865	Cover	1	Tufnol	
	17866	Knob	1	L. 1	
652	—	Diaphragm, Group consisting of :—	1	—	B.
	17858	Diaphragm	4	F.S. Airboard Fabric	
	17859	Disc, pressure	1	S. 3	
	17857	Needle, control	1	S. 80	
	A.16Y/BP	Nut, for control needle (Section 28M/5315)	1	—	
654	17863	Guide , for springs	1	M.S.	C.
656	17845	Housing , for oil flow indicator	1	DTD. 281	B.
†	20759/1	Plug , connection, Pleasey type C.Z.1760 complete with washers and screws (Section 5X/2)	1	—	—
†	A.16Y/BP	Nut , plain, for mounting bracket bolts and control needle (Section 28M/5315)	5	—	—
662	17864	Ring , locating, spring guide	1	S. 3	C.
664	17860	Spigot , insulating	1	Tufnol	C.

OIL FLOW INDICATOR AND MOUNTING.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
666	17861	Spring , heavy	1	} DTD. 215	C.
668	17862	Spring , light	1		C.
†	AGS.627/A	Union , inlet and outlet (Section 28V/5025)	... 2	—	—
†	AGS.163/B	Washer , spring, for housing cover ... (Section 28W/3088)	... 6	—	—
†	AGS.162/B	Washer , spring, for mounting bracket ... (Section 28W/3097)	... 4	—	—
260	N.1579	Washer , tab, for inlet and outlet unions ...	... 2	BS. 899	C.
†	—	Wire , 18 S.W.G., for contacts ... (Section 30B/1040)	... As reqd.	Tinned Copper	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
COMBUSTION CHAMBER ASSEMBLY. complete as follows :—					
1188	N.2230	Banjo, for No. 11 combustion chamber ...	1	DTD. 325	C.
1002	N.2278	Bolt, for No. 11 combustion chamber banjo ...	1	S. 2	C.
10	N.123	Bolt, for spherical connection ...	96	S. 1	C.
680	—	Casing, Front, Long Type, Group consisting of :—	1	—	B.
	17933A/6	Casing ...	1	DTD. 133B or DTD. 272	
	802-59/1	Dowel, for fuel drain connection ferrule ...	1	M.S.	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	N.2516	Ferrule, for fuel drain connection ...	1	F.D.P.	
	A.16Z/CP	Nut, plain, for rear casing studs (Section 28M/6435) ...	16	—	
	AGS.884/B	Stud, for rear casing ... (Section 28T/2904) ...	16	—	
	806-96/1	Tab, lockwire, for rear casing studs ... (Section 36FF/662) ...	3	S. 3	
682	—	Casing, Front, Long Type, Group consisting of :—	1	—	B.
	21718	Casing ...	1	DTD. 133B. or DTD. 272	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	A.16Z/CP	Nut, plain, for rear casing studs (Section 28M/6435) ...	16	—	
	AGS.884/B	Stud, for rear casing ... (Section 28T/2904) ...	16	—	
	806-96/1	Tab, lockwire, for rear casing studs ... (Section 36FF/662) ...	3	S. 3	
684	—	Casing, Front, Long Type, Group consisting of :—	7	—	B.
	17936A/5	Casing ...	1	DTD. 133B or DTD. 272	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	A.16Z/CP	Nut, plain, for rear casing studs (Section 28M/6435) ...	16	—	
	AGD.884/B	Stud, for rear casing ... (Section 28T/2904) ...	16	—	
	806-96/1	Tab, lockwire, for rear casing studs (Section 36FF/662) ...	3	S. 3	

COMBUSTION CHAMBERS.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
686	—	Casing, Front, Short Type, Group consisting of:—	2	—	B.
	17931A/6	Casing	1	DTD. 133B or DTD. 272	
	802-59/1	Dowel, for fuel drain connection ferrule ...	1	M.S.	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	N.2516	Ferrule, for fuel drain connection ...	1	F.D.P.	
	A.16Z/CP	Nut, plain, for rear casing studs (Section 28M/6435)	16	—	
	AGS.884/B	Stud, for rear casing ... (Section 28T/2904)	16	—	
	806-96/1	Tab, lockwire, for front casing studs (Section 36FF/662)	3	S. 3	
688	—	Casing, Front, Short Type, Group consisting of:—	6	—	B.
	17932A/5	Casing	1	DTD. 133B or DTD. 272	
	N.2429	Dowel, for rear casing joint face ...	1	S. 1	
	A.16Z/CP	Nut, plain, for rear casing studs (Section 28M/6435)	16	—	
	AGS.884/B	Stud, for rear casing ... (Section 28T/2904)	16	—	
	806-96/1	Tab, lockwire, for rear casing studs ... (Section 36FF/662)	3	S. 3	
690	20847/4	Casing, Rear, Long Type, Group... consisting of:—	6	—	B.
	20167/2	Boss, locating pin	3	M.S. or S. 1	
	20844A	Casing	1	S. 84	
	17515A	Flange, L.H., for interconnecting elbow ...	1	S. 84	
	17514A	Flange, R.H., for interconnecting elbow ...	1	S. 84	
	20859	Plate, for locating pin boss	3	S. 84	
	20994/1	Ring, joint, front end	1	F.D.P. or R. 15	
	20893/1	Ring, joint, rear end	1	F.D.P. or DTD. 176A	
	16492/1	Sleeve, for interconnecting elbow	2	DTD. 176A	
692	20846/6	Casing, Rear, Long Type with Igniter Plug Group consisting of:—	2	—	B.
	20854	Boss, igniter plug	1	S. 1	
	20167/2	Boss, locating pin	3	M.S. or S. 1	
	20843A	Casing	1	S. 84	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
		Casing, Rear, Long Type with Igniter Plug, Group (cont'd)			
	17515A	Flange, L.H., for interconnecting elbow ...	1	S. 84	
	17514A	Flange, R.H., for interconnecting elbow ...	1	S. 84	
	20859	Plate, for locating pin boss ...	3	S. 84	
	20994/1	Ring, joint, front end ...	1	F.D.P.	
	20893/1	Ring, joint, rear end ...	1	F.D.P. or DTD. 176A	
	16492/1	Sleeve, for interconnecting elbow ...	2	DTD. 176A or R. 15	
696	20845/4	Casing, Rear, Short Type, Group ...	8	—	B.
		consisting of :—			
	20167/2	Boss, locating pin ...	3	M.S. or S. 1	
	20842A	Casing ...	1	S. 84	
	17515A	Flange, L.H., for interconnecting elbow ...	1	S. 84	
	17514A	Flange, R.H., for interconnecting elbow ...	1	S. 84	
	20859	Plate, for locating pin boss ...	3	S. 84	
	20894/1	Ring, joint, front end ...	1	F.D.P. or R. 15	
	20893/1	Ring, joint, rear end ...	1	F.D.P. or DTD. 176A	
	16492/1	Sleeve, for interconnecting elbow ...	2	DTD. 176A or R. 15	
30	21485/1	* Chamber, Combustion, Nos. 2 and 14, Group... ...	2	—	A.
		consisting of :—			
	—	Casing, front, short type, group (See Ref. No. 688)	1	—	
	20846/6	Casing, rear, long type, group (See Ref. No. 692)	1	—	
	20726A/1	‡ Pin, locating (See Ref. No. 740)	3	S. 62	
	20376/2	‡ Pin, locating (See Ref. No. 742)	1	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	1	Oaken- strong	
	20170/4	Scoop and colander with igniter plug, Group (See Ref. No. 752)	1	—	
	21371	Tube, flame, with igniter plug, Group (See Ref. No. 762)	1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As Reqd.	Stainless Steel	

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
700	21749/1	Chamber, Combustion, Nos. 2 and 14, Group ... consisting of :—	2	—	A.
		Casing, front, short type, group ... (See Ref. No. 688)	1	—	
	20846/6	Casing, rear, long type, group ... (See Ref. No. 692)	1	—	
	20376/2	Pin, locating (See Ref. No. 742) ...	3	S. 1	
	17890	Ring, joint, for front and rear casing ... (See Ref. No. 744)	1	Oaken- strong	
	21669/1	Scoop and colander with igniter plug, group ... (See Ref. No. 754)	1	—	
	21678	Tube, flame, with igniter plug, group ... (See Ref. No. 764)	1	—	
	N.1483	Washer, for locating pin ... (See Ref. No. 770)	3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As reqd.	Stainless Steel	
32	21489/1	* Chamber, Combustion, Nos. 1, 3, 5, 7, 11, 13 and 15, Group consisting of :—	7	—	A.
	—	Casing, front, long type, group ... (See Ref. No. 684)	1	—	
	20845/4	Casing, rear, short type, group ... (See Ref. No. 696)	1	—	
	20726A/1 ‡	Pin, locating (See Ref. No. 740) ...	3	S. 62	
	20376/2 ‡	Pin, locating (See Ref. No. 742) ...		S. 1	
	17890	Ring, joint, for front and rear casings ... (See Ref. No. 744)	1	Oaken- strong	
	21163/1	Scoop and colander, Group ... (See Ref. No. 748)	1	—	
	21369	Tube, flame, group (See Ref. No. 756) ...	1	—	
	N.1483	Washer, for locating pin ... (See Ref. No. 770)	3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As reqd.	Stainless Steel	
704	21745	Chamber, Combustion, Nos. 1, 3, 5, 7, 13, and 15, Group This Group is identical with Combustion Chamber Group Ref. No. 32, except for Part Nos. 21163/1, 21369 and 20726A/1 which are not required, and the following parts are introduced :—	6	—	A.
	21670	Scoop and colander, Group ... (See Ref. No. 750)	1	—	
	21666	Tube, flame, group ... (See Ref. No. 758)	1	—	

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
34	21486/1	* Chamber, Combustion, Nos. 4, 6, 12 and 16, Group consisting of :—	4	—	A.
	—	Casing, front, short type, group (See Ref. No. 688)	... 1	—	
	20847/4	Casing, rear, long type, group (See Ref. No. 690)	... 1	—	
	20726A/1 ‡	Pin, locating (See Ref. No. 740)	... 3	S. 62	
	20376/2 ‡	Pin, locating (See Ref. No. 742)	...	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	... 1	Oaken- strong	
	21163/1	Scoop and colander, group (See Ref. No. 748)	... 1	—	
	21369	Tube, flame, group (See Ref. No. 756)	... 1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	... 3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As reqd.	Stainless Steel	
708	21747	Chamber, Combustion, Nos. 4, 6, 12 and 16, Group This Group is identical with Combustion Chamber Ref. No. 34, except that Part Nos. 21163/1, 21369 and 20726A/1 are not required and the following Parts are introduced :—	4	—	A.
	21670	Scoop and colander, group (See Ref. No. 750)	... 1	—	
	21666	Tube, flame, group (See Ref. No. 758)	... 1	—	
36	21487/1	* Chamber, Combustion, Nos. 8 and 10, Group consisting of :—	2	—	A.
	—	Casing, front, short type, group (See Ref. No. 686)	... 1	—	
	20847/4	Casing, rear, long type, group (See Ref. No. 690)	... 1	—	
	20726A/1 ‡	Pin, locating (See Ref. No. 740)	... 3	S. 62	
	20376/2 ‡	Pin, locating (See Ref. No. 742)	...	S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	... 1	Oaken- strong	
	21163/1	Scoop and colander, group (See Ref. No. 748)	... 1	—	
	21369	Tube, flame, group (See Ref. No. 756)	... 1	—	
	N.1483	Washer, for locating pin (See Ref. No. 770)	... 3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As reqd.	Stainless Steel	

COMBUSTION CHAMBERS.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
712	21748	Chamber, Combustion, Nos. 8 and 10, Group...	2	—	A.
		This Group is identical with Combustion Chamber Group Ref. No. 36 except that Parts No. 21163/1, 21369 and 20726A/1 are not required and the following Parts are introduced :—			
	21670	Scoop and colander, group ... (See Ref. No. 750)	1	—	
	21666	Tube, flame, group (See Ref. No. 758)	1	—	
38	21490/1	* Chamber, Combustion, No. 9, Group ...	1	—	A.
		consisting of :—			
—		Casing, front, long type, group ... (See Ref. No. 680)	1	—	
	20845/5	Casing, rear, short type, group ... (See Ref. No. 692)	1	—	
	20726A/1 ‡	Pin, locating (See Ref. No. 740) ...	3	S. 62	
	20376/2 ‡	Pin, locating (See Ref. No. 742) ...		S. 1	
	17890	Ring, joint, for front and rear casings (See Ref. No. 744)	1	Oaken- strong	
	21163/1	Scoop and colander, group ... (See Ref. No. 748)	1	—	
	21369	Tube, flame, group (See Ref. No. 756)	1	—	
	N.1483	Washer, for locating pin ... (See Ref. No. 770)	3	BS. 899	
	—	Wire, locking, 18 S.W.G., for locating pins... (Section 30A/2216)	As reqd.	Stainless Steel	
716	21746	Chamber, Combustion, No. 9, Group ...	1	—	A.
		This Group is identical with Group Ref. No. 38 except that Part numbers 21163/1, 21369, and 20726A/1 are not required and the following Parts are introduced :—			
	21670	Scoop and colander, group ... (See Ref. No. 750)	1	—	
	21666	Tube, flame, group ... (See Ref. No. 758)	1	—	
726	21738/1	* Chamber, Combustion, No. 11, Group ...	1	—	A.
		This Group is identical with Group Ref. No. 32 except that casing, front, long type, group (See Ref. No. 684) is not required and the following Parts are introduced :—			
	N.2230	Banjo (See Ref. No. 1188) ...	1	DTD. 525	
	N.2278	Bolt, for banjo (See Ref. No. 1002) ...	1	S. 2	
	—	Casing, front, long type, group ... (See Ref. No. 682)	1	—	
	N.3140	Elbow (See Ref. No. 739) ...	1	—	

‡ Alternatives

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
* Chamber, Combustion, No. 11, Group (continued)					
	AGS.1140/A	Nipple, blanking, for elbow ... (Section 28F/10482)	1	—	
	N.2037	Nut, union, for blanking nipple ... (See Ref. No. 741)	1	—	
	AGS.166/1	Pin, split, for blanking nipple ... (Section 28P/1201)	1	—	
	1406-42	Washer, for banjo (Section 36FF/21244)	2	C. & A.	
	—	Wire, locking, 20 S.W.G., ... (Section 30A/2037)	As reqd.	Soft Iron	
734	21751	Chamber, Combustion, No. 11, Group ...	1	—	A.
		This Group is identical with Group Ref. No. 726 except that Part numbers 21163/1, and 21369 are not required and the following Parts are introduced:—			
	21670	Scoop and colander, group ... (See Ref. No. 750)	1	—	
	21666	Tube, flame, group (See Ref. No. 758)	1	—	
40	16487/2	Connection, spherical, for interconnecting pipes ...	32	F.D.P. or DTD. 176 or R. 15	C.
739	N.3140	Elbow, for No. 11 combustion chamber ...	1	—	—
†	AGS.1140/A	Nipple, blanking, for No. 11 combustion chamber elbow (Section 28F/10482)	1	—	—
†	A.16Z/CP	Nut, plain, for rear casing and spherical connection (Section 28M/6435)	352	—	—
741	N.2037	Nut, union, for No. 11 combustion chamber blanking nipple	1	—	—
740	20726A/1	‡ Pin, locating, flame tube ...	48	S. 62	C.
742	20376/2	‡ Pin, locating, flame tube ...	...	S. 1	C.
†	AGS.166/1	Pin, split, for No. 11 combustion chamber blanking nipple (Section 28P/1201)	1	—	—
48	19517/1	Plug, igniter K.L.G. type 994/9 complete with seating washer	2	—	B.
744	17890	Ring, joint, for front and rear casings ...	16	Oaken-strong	C.
50	16486/2	Ring, sealing, for rear joint ring ...	32	DTD. 462B	C.
52	15939/3	Ring, sealing, for spherical connections ...	32	DTD. 462B	C.
748	21163/1	*Scoop and Colander, Group ... consisting of:—	14	—	B.
	20206	Colander ...	1		
	17741/1	Flare ...	1	Inconel	
	17737A	Scoop ...	1		
	17799/1	Sleeve, inner, for diffuser ...	1	F.D.P.	
	20784	Sleeve, locating pin ...	3	F.D.P. or DTD. 171A	

‡ Alternatives

Ref. No. †	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
750	21670	Scoop and Colander, Group consisting of:—	14	—	B.
	21672	Colander	1	Inconel	
	21676	Flare	1		
	21679	Scoop	1		
	17799/1	Sleeve, inner, for diffuser	1	F.D.P.	
	20784	Sleeve, locating pin	3	F.D.P. or DTD. 171A	
	17796	Sleeve, outer, for diffuser	1		
	21675	Snout for scoop	1	Inconel	
	17798	Vane, swirl, for diffuser	8	F.D.P. or DTD. 161A	
752	20170/4	* Scoop and Colander with Igniter Plug, Group consisting of:—	2	—	B.
	20205/2	Colander	1	Inconel	
	17741/1	Flare	1		
	19849A	Scoop	1		
	17799/1	Sleeve, inner, for diffuser	1	F.D.P.	
	19548/1	Sleeve, locating, for igniter plug	1	F.D.P. or DTD. 171A	
	20784	Sleeve, locating pin	3		
	17796	Sleeve, outer, for diffuser	1	DTD. 171A	
	17798	Vane, swirl, for diffuser	8	F.D.P. or DTD. 171A	
754	21669/1	Scoop and Colander with Igniter Plug, Group consisting of:—	2	—	B.
	21673	Colander	1	Inconel	
	21676	Flare	1		
	21240	Plate for retaining igniter plug sleeve	2	F.D.P. or DTD. 171A	
	21680	Scoop	1	Inconel	
	17799/1	Sleeve, inner, for diffuser	1	F.D.P.	
	21239	Sleeve, locating, for igniter plug	1	F.D.P. or DTD. 171A	
	20784	Sleeve, locating pin	3		
	17796	Sleeve, outer, for diffuser	1	DTD. 171A	
	21675	Snout for scoop	1	Inconel	
	17798	Vane, swirl, for diffuser	8	F.D.P. or DTD. 171A	
†	AGS.884/B	Stud, for rear casing (Section 28T/2904)	256	DTD. 171A	
†	806-96/1	Tab, lockwire, for locating pins and rear casing studs (Section 36FF/662)	81	S. 3	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
756	21369	* Tube, Flame, Group ... consisting of :—	14	—	
	20785	Sleeve, locating pin ...	3	F.D.P. or DTD. 176A	
	16707	Stub, interconnecting ...	2	F.D.P. or Immac. 5	
	21370	Tube, conical ...	1	} Nimonic 75 or Inconel	
	20212/2	Tube, cylindrical ...	1		
758	21666	Tube, Flame, Group ... consisting of :—	14	—	B.
	20837	Piece, window, for flame tube ...	1	} Inconel	
	21677	Piece, window, for flame tube ...	1		
	20785	Sleeve, locating pin ...	3	} F.D.P. or DTD. 176A	
	16707	Stub, interconnecting ...	2		
	21055	Tube, flame, centre section ...	1	} Inconel	
	21054	Tube, flame, front section ...	1		
	21671	Tube, flame, rear section ...	1		
762	21371	* Tube, Flame, with Igniter Plug, Group ...	2	—	B.
	20785	Sleeve, locating pin ...	3	F.D.P. or DTD. 176A	
	16707	Stub, interconnecting ...	2	F.D.P. or Immac. 5	
	21370	Tube, conical ...	1	} Nimonic 75 or Inconel	
	20211/1	Tube, cylinder ...	1		
764	21678	Tube, Flame, with Igniter Plug, Group ...	2	—	B.
	20837	Piece, window, for flame tube ...	1	} Inconel	
	21677	Piece, window, for flame tube ...	1		
	20785	Sleeve, locating pin ...	3	F.D.P. or DTD. 176A	
	16707	Stub, interconnecting ...	2	F.D.P. or Immac. 5	
	21055	Tube, flame, centre section ...	1	} Inconel	
	21059	Tube, flame, front section ...	1		
	21671	Tube, flame, rear section ...	1		
66	16488/4	Tube, inner, for interconnecting pipe ...	32	Inconel	B.
†	1406-42	Washer, for No. 11 combustion chamber banjo (Section 36FF/21244)	2	C. & A.	—
770	N.1483	Washer, for locating pin ...	48	BS. 899	C.
†	—	Wire, locking, 18 S.W.G., for locating pins ...	As reqd.	Stainless Steel	—
†	—	Wire, locking, 20 S.W.G. for banjo bolt, No. 11 combustion chamber (Section 30A/2037)	As reqd.	Soft Iron	—



Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
COMBUSTION CHAMBER BURNER ASSEMBLY. complete as follows :—					
780	21081	Atomiser, for burner, flow factor 30.4	4	—	B.
782	21082	Atomiser, for burner, flow factor 28.0	4	—	B.
784	21083	Atomiser, for burner, flow factor 32.0	6	—	B.
786	21084	Atomiser, for burner, flow factor 26.8	2	—	B.
788	N.2228	Banjo, for pressure gauge connection	1	S. 1	C.
112	21085/1-304 *	Burner For Nos. 1, 5, 9, and 13, Combustion Chambers, Group (Used only with Combustion Chambers Ref. Nos. 32 and 38)	4	—	A.
	21081	Atomiser (See Ref. No. 780)	1	—	
	20100	Filter, "Lolos" Cartridge type (See Ref. No. 808)	1	—	
	17790/1	Holder, for atomiser (See Ref. No. 810)	1	R. 15	
	20097	Holder, burner	1	S. 1	
	20207/1	Holder, retaining atomiser (See Ref. No. 812)	1	DTD. 176A or R. 15	
	13729/2	Nut, ring, for locking shroud (See Ref. No. 816).	1	S. 1	
	20160	Plug, locking, atomiser (See Ref. No. 818)	2	DTD. 176A or R. 15	
	17791/2	Shroud (See Ref. No. 850)	1	S. 1	
	20302/1	Spring, retaining, atomiser (See Ref. No. 854)	1	DTD. 215	
	N.1977	Union, inlet (See Ref. No. 856)	1	S. 1	
	N.1480	Washer, for inlet union (See Ref. No. 860)	1	L. 17	
	13733A	Washer, tab, for atomiser holder (See Ref. No. 862)	1	BS. 899	
790	21729-304.	Burner, for Nos. 1, 5, 9, and 13 Combustion Chambers, Group	4	—	A.
		This Group is identical with Group Ref. No. 112 except for Part No. 17791/2 which is replaced by :—			
	20998	Shroud (See Ref. No. 852)	1	S. 1	
114	21086/1-280 *	Burner, for Nos. 6, 8, 14 and 16 Combustion Chamber, Group (Used only with Combustion Chambers Ref. Nos. 30, 34 and 36) consisting of :—	4	—	A.
	21082	Atomiser (See Ref. No. 782)	1	—	
	20100	Filter, "Dolas" cartridge type (See Ref. No. 808)	1	—	
	17790/1	Holder, for atomiser (See Ref. No. 810)	1	R. 15	
	20097	Holder, burner	1	S. 1	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Burner, for Nos. 6, 8, 14 and 16 Combustion Chamber, Group (cont'd)					
	20207/1	Holder, retaining atomiser (See Ref. No. 812)	...	...	1 DTD. 176A or R. 15
	13729/2	Nut, ring, for locking shroud (See Ref. No. 816)	...	...	1 S. 1
	20160	Plug, locking, atomiser (See Ref. No. 818)	...	...	2 DTD. 176A or R. 15
	17791/2	Shroud (See Ref. No. 850)	...	...	1 S. 1
	20302/1	Spring, retaining, atomiser (See Ref. No. 854)	...	...	1 DTD. 215
	N.1977	Union, inlet (See Ref. No. 856)	...	...	1 S. 1
	N.1480	Washer, for inlet union (See Ref. No. 860)	...	...	1 L. 17
	13733A	Washer, tab, for atomiser holder (See Ref. No. 862)	...	...	1 BS. 899
794	21730-280	Burner for Nos. 6, 8, 14 and 16 Combustion Chamber, Group :—	4	—	A.
		This Group is identical with Group Ref. No. 114 except for Part No. 17791/2 which is replaced by :—			
	20998	Shroud (See Ref. No. 852)	...	...	1 S. 1
116	21087/1-320 *	Burner for Nos. 2, 4, 10, 11 and 12 Combustion Chamber, Group (Used only with Combustion Chambers Ref. Nos. 30, 32, 34 and 36) consisting of :—	5	—	A.
	21083	Atomiser (See Ref. No. 784)	...	...	1 —
	20100	Filter, "Lolos" cartridge type (See Ref. No. 808)	...	...	1 —
	17790/1	Holder, for atomiser (See Ref. No. 810)	...	...	1 R. 15
	20097	Holder, burner	...	...	1 S. 1
	20207/1	Holder, retaining atomiser (See Ref. No. 812)	...	...	1 DTD. 176A or R. 15
	13729/2	Nut, ring, for locking shroud (See Ref. No. 816)	...	...	1 S. 1
	20160	Plug, locking, atomiser (See Ref. No. 818)	...	...	2 DTD. 176A or R. 15
	17791/2	Shroud (See Ref. No. 850)	...	...	1 S. 1
	20302/1	Spring, retaining, atomiser (See Ref. No. 854)	...	...	1 DTD. 215
	N.1977	Union, inlet (See Ref. No. 856)	...	...	1 S. 1
	N.1480	Washer, for inlet union (See Ref. No. 860)	...	...	1 L. 17
	13733A	Washer, tab, for atomiser holder (See Ref. No. 862)	...	...	1 BS. 889

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
798	21731-320	Burner for Nos. 2, 4, 10, 11 and 12 Combustion Chambers, Group	5	—	A.
		This Group is identical with Group Ref. No. 116, except for Part No. 17791/2, which is replaced by :—			
	20998	Shroud (See Ref. No. 852)	1	S. 1	
118	21088/1-268 *	Burner for Nos. 7 and 15 Combustion Chamber, Group (Used only with Combustion Chamber Ref. No. 32)	2	—	A.
		consisting of :—			
	21884	Atomiser (See Ref. No. 786)	1	—	
	20100	Filter, "Lolos" cartridge type (See Ref. No. 808)	1	—	
	17790/1	Holder, for atomiser (See Ref. No. 810)	1	R. 15	
	20097	Holder, burner	1	S. 1	
	20207/1	Holder, retaining atomiser (See Ref. No. 812)	1	DTD. 176A or R. 15	
	13729/2	Nut, ring, for locking shroud (See Ref. No. 816)	1	S. 1	
	20160	Plug, locking, atomiser (See Ref. No. 818)	2	DTD. 176A or R. 15	
	17791/2	Shroud (See Ref. No. 850)	1	S. 1	
	20302/1	Spring, retaining atomiser (See Ref. No. 854)	1	DTD. 215	
	N.1977	Union, inlet (See Ref. No. 856)	1	S. 1	
	N.1480	Washer, for inlet union (See Ref. No. 860)	1	L. 17	
	13733A	Washer, tab, for atomiser holder (See Ref. No. 862)	1	BS. 899	
802	21732-268	Burner for Nos. 7 and 15 Combustion Chambers, Group	2	—	A.
		This Group is identical with Group Ref. No. 118, except for Part No. 17791/2, which is replaced by :—			
	20998	Shroud (See Ref. No. 852)	1	S. 1	
120	21089/1-320 *	Burner for No. 3 Combustion Chamber, Group (Used only with Combustion Chamber Ref. No. 32)	1	—	A.
		consisting of :—			
	21083	Atomiser (See Ref. No. 784)	1	—	
	N.2228	Banjo, for pressure gauge connection (See Ref. No. 788)	1	S. 1	
	20100	Filter, "Lolos" cartridge type (See Ref. No. 808)	1	—	
	17790/1	Holder, for atomiser (See Ref. No. 810)	1	R. 15	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Burner for No. 3 Combustion Chamber, Group (cont'd)					
	20097	Holder, burner	1	S. 1	
	20207/1	Holder, retaining atomiser (See Ref. No. 812)	1	DTD. 176A or R. 15	
	13729/2	Nut, ring, for locking shroud (See Ref. No. 816)	1	S. 1	
	20160	Plug, locking, atomiser (See Ref. No. 818)	2	DTD. 176A or R. 15	
	17791/2	Shroud (See Ref. No. 850)	1	S. 1	
	20302/1	Spring, retaining atomiser (See Ref. No. 854)	1	DTD. 215	
	N.1969	Union, inlet (See Ref. No. 858)	1	S. 1	
	N.1480	Washer, for inlet union and banjo for pressure gauge connection (See Ref. No. 860)	2	L. 17	
	13733A	Washer, tab, for atomiser holder (See Ref. No. 862)	1	BS. 899	
806	21733-320	Burner for No. 3 Combustion Chamber, Group	1	—	A.
This Group is identical with Group Ref. No. 120, except for Part No. 17791/2, which is replaced by :—					
	20998	Shroud (See Ref. No. 852)	1	S. 1	
808	20100	Filter , "Lolos" cartridge type	16	—	B.
810	17790/1	Holder , for atomiser	16	R. 15	B.
812	20207/1	Holder , retaining atomiser	16	DTD. 176A or R. 15	B.
814	20099	Joint , for shims	32	Klingerit	C.
816	13729/2	Nut , ring, for locking shroud	16	S. 1	C.
818	20160	Plug , locking atomiser	32	DTD. 176A or R. 15	C.
820	21134	Shim , for adjusting burner	As reqd.	S. 3	C.
850	17791/2	* Shroud , for atomiser	16	S. 1	B.
852	20998	Shroud , for atomiser	16	S. 1	B.
854	20302/1	Spring , retaining, atomiser	16	DTD. 215	C.
856	N.1977	Union , inlet	15	S. 1	C.
858	N.1969	Union , inlet, for No. 2 burner	1	S. 1	C.
860	N.1480	Washer , for inlet union and banjo	17	L. 17	C.
862	13733A	Washer , tab, for atomiser holder	16	BS. 899	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
880	19793	TAIL PIPE ASSEMBLY. ... ^ ... complete as follows:—	—	—	A.
†	6A.1/8E	Bolt , for air supply pipe connection (Section 28D/7084)	8	—	—
22	N.107	Bolt , for inner cone baffle ...	12	S. 61 or S. 62 or S. 80	C.
†	A.15Z/1E	Bolt , for propelling nozzle (Section 28D/7517)	30	S. 80	—
884	20766	Clip , for thermocouple ...	2	Immaculate 5 or DTD. 171A	C.
900	20884/1	Nozzle, Propelling, Group ... consisting of:—	1	—	B.
	20848	Nozzle ...	1	Immaculate 5 or F.D.P.	
	20828	Piece, packing, for extension ring ...	24	F.D.P.	
	20883	Ring, extension ...	1	Immaculate 5 or F.D.P.	
	AS.461/408	Rivet ...	48	—	—
†	A.16Z/EP	Nut , plain, for propelling nozzle bolts (Section 28M/6981)	30	—	—
320	16004A	Nut , blanking, for pressure point connection	2	Immaculate 5 or F.D.P. or S. 80 or DTD. 525	C.
888	N.673	Nut , blanking, for thermocouple connection	4		C.
322	16001A	Nut , blanking, for thermocouple connection	5		C.
892	20547/3	Nut , cap, for inner tube rear support ...	4	F.D.P. or DTD. 176 or S. 80 or DTD. 525	C.
†	AGS.1517	Nut , for thermocouple cable (Section 5K/1497)	1	—	—
894	N.2026	Nut , union, for thermocouple ...	1	S. 1	C.
†	AGS.784/2	Pin , split, for inner cone air tube ring nut (Section 28P/5031)	1	—	—
896	—	Pipe, Tail, Group ... consisting of:—	1	—	A.
	15845	Adaptor, for inner cone air tube ...	1	F.D.P. or Jessops R. 15	
	16637	Baffle, for inner cone ...	1	Immaculate 5	
	6A.1/8E	Bolt, for air supply pipe connection... (Section 28D/7084)	8	—	
	N.107	Bolt, for inner cone baffle ... (See Ref. No. 22)	12	S. 61 or S. 62 or S. 80	
	A.15Z/1E	Bolt, for propelling nozzle ... (Section 28D/7517)	30	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Pipe, Tail, Group (cont'd)					
19292		Boss, for front and rear Nos. 1 and 2 fairing and plate, outer sealing caps	16	} DTD. 176A	
19293		Boss, for front and rear Nos. 1 and 2 fairing and plate, outer sealing caps	8		
19297		Boss, for front and rear Nos. 1 and 2 fairing and plate inner sealing caps	20		
17773/2		Boss, for front outer cone front support stiffening plate	4		
17766/3		Boss, for inner cone large diaphragm	... 4	} F.D.P. or DTD. 176A	
15678/1		Boss, for inner cone small diaphragm	... 4		
19810		Boss, for inner cone stiffening ring	... 12		
19315		Boss, for rear Nos. 1 and 2 fairing and plates, inner sealing caps	4	DTD. 176A	
20766		Clip, thermocouple (See Ref. No. 884)	... 2	Immaculate 5 or DTD. 171A	
19660A/5		Cone, front outer	... 1	Immaculate 5	
17764A/1		Cone, inner	... 1	Immaculate 5	
15164/3		Connection, pressure point	... 2	Immaculate 5 or F.D.P. or DTD. 529	
15166/2		Connection, thermocouple	... 6	Immaculate 5 or F.D.P.	
17765/3		Diaphragm, large, for inner cone	... 1	DTD. 171A	
17767/1		Diaphragm, small, for inner cone	... 1	DTD. 171A	
19290		Fairing, front Nos. 1 and 2	... 4	} F.D.P. or DTD. 171B	
19310		Fairing, rear Nos. 1 and 2	... 4		
17248		Flange, for heater muff	... 2	Immaculate 5 or F.D.P.	
20236/1		Flange, front, for front outer cone	... 1	DTD. R.D.M.5 or H.R. Crown Max.	
20234/1		Flange, rear, for outer cone	... 1	F.D.P.	
19606		Flange, screwed, for thermocouple	... 4	DTD. 176A	
21253	‡	Muff, heater, for front outer cone	... 1	Immaculate 5	
20884/1		Nozzle, propelling, Group (See Ref. No. 900)	... 1	—	
16004A		Nut, blanking, for pressure point connection (See Ref. No. 320)	2	} Immaculate 5 or F.D.P. or S. 80 or DTD. 524	
N.673		Nut, blanking, for thermocouple connection (See Ref. No. 888)	4		

‡ This item is alternative to Part Numbers 17244A, 17245A and 17246.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Pipe, Tail Group (cont'd)					
	16001A	Nut, blanking, for thermocouple connection (See Ref. No. 322)	5	Immaculate 5 or F.D.P. S. 80 or DTD. 525	
	20547/3	Nut, cap, for inner tube rear support (See Ref. No. 892)	... 4	F.D.P. or DTD. 176 or S. 80 or DTD. 525	
	A.16Z/EP	Nut, plain, for propelling nozzle bolt (Section 28M/6981)	... 30	—	
	N.747	Nut, ring, for inner cone air tube ...	... 1	S. 1	
	19302	Pad, stiffening, for front Nos. 1 and 2 fairing and inner plates	4	DTD. 176A	
	19320	Pad, stiffening, for rear Nos. 1 and 2 fairing and inner plates	4	DTD. 176A	
	19728A	Piece, stiffening, for inner cone baffle plate	2	} F.D.P.	
	15554A	Piece, stiffening, for outer cone baffle plate...	2		
	AGS.784/2	Pin, split, for inner cone air tube ring nut (Section 28P/5031)	... 1	—	
	19291	Plate, for front Nos. 1 and 2 fairing and plate outer sealing cap	4	DTD. 171B	
	19296	Plate, for front No. 1 fairing and plate inner sealing cap	2	DTD. 171B or F.D.P.	
	19305	Plate, for front No. 2 fairing and plate inner sealing cap	2	DTD. 171B	
	19311	Plate, for rear Nos. 1 and 2 fairing and plates outer sealing cap	4	DTD. 171B	
	19314	Plate, for rear No. 1 fairing and plate inner seal- ing cap	2	F.D.P. or DTD. 171B	
	19326	Plate, for rear No. 2 fairing and plate inner sealing cap	2	F.D.P. or DTD. 171B	
	16639	Plate, baffle, for inner cone ...	... 1	F.D.P. or DTD.RDM. 5	
	17775/2	Plate, boss rear, for front outer cone	... 2	} DTD. 171B and DTD. 176A	
	17776/2	Plate, boss rear, for front outer cone	... 2		
	19301	Plate, inner, for front No. 1 fairing and plates	2	} F.D.P. or DTD. 171B	
	19307	Plate, inner, for front No. 2 fairing and plates	2		
	19319	Plate, inner, for rear No. 1 fairing and plates	2	} F.D.P. or DTD. 171A	
	19331	Plate, inner, for rear No. 2 fairing and plates	2		
	19300	Plate, outer, for front Nos. 1 and 2 fairing and plates	4	} DTD. 171B	
	19318	Plate, outer, for rear Nos. 1 and 2 fairing and plates	4		
	17774/1	Plate, stiffening, for front outer cone front support boss plate	4	Immaculate 5	
	15674A/1	Plate, stiffening, front, for front outer cone ...	4	} F.D.P. or DTD. 171B	
	15675/1	Plate, stiffening, rear, for front outer cone ...	4		

TAIL PIPE

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Pipe, Tail, Group (cont'd)					
17244A	‡	Ring, side, large, for heater muff ...	1	Immaculate 5	
17245A	‡	Ring, side, small, for heater muff ...	1		
16636A/3		Ring, stiffening, for inner cone ...	1	F.D.P.	
17246	‡	Ring, top, for heater muff ...	1	Immaculate 5	
AS.456-303		Rivet, for inner cone baffle and stiffening pieces	24	—	
AGS.500-F-41		Rivet, for inner cone large and small diaphragm	16	—	
AS.464-404		Rivet, for outer cone front flange ...	116	—	
N.1625		Screw, for front and rear Nos. 1 and 2 fairing inner plates	24	DTD. 176A	
N.140		Screw, set, for tail pipe front and rear fairings (See Ref. No. 898)	24	DTD. 176A or S. 61	
19295/1		Spacer, for front Nos. 1 and 2 fairings ...	4	DTD. 171B	
19313/1		Spacer, for rear Nos. 1 and 2 fairings ...	4	DTD. 171B	
17786		Tube, air, for inner cone ...	1	Immaculate 5 or Inconel	
17784		Tube, support, for front inner cone ...	1	F.D.P.	
17785		Tube, support, for front inner cone ...	1	F.D.P.	
17769		Tube, support, for rear inner cone ...	2	F.D.P.	
16411A		Union, for front outer drain ...	1	Immaculate 5 or F.D.P.	
20546		Washer, for air supply pipe connection (See Ref. No. 882)	4	BSS. 899	
AGS.160/D		Washer, for front and rear fairing set screws (Section 28W/3072)	24	—	
N.1303		Washer, for inner cone rear support cap nut (See Ref. No. 904)	4	C. & A.	
N.1562		Washer, tab, for inner cone baffle bolt... (See Ref. No. 906)	12	DTD. 171A	
—		Wire, locking, for fairing set screws	As reqd.	Stainless Steel	
898	N.140	Screw, set, for fairings ...	24	DTD. 176A or S. 61	C.
902	20764/2	Thermocouple, Group ... consisting of :—	1	—	B.
—		Cable, single-coated, braided " Gabriel " 1400/A 7.ft. Approx.	—	—	
20763		Ferrule, cable ...	1	BS. 249	
AGS.1517		Nut, cable (Section 5K/1497) ...	1	—	
N.2026		Nut, union (See Ref. No. 894) ...	1	S. 1	
20762/1		Thermocouple ...	1	—	

‡ These items are alternative to Heater Muff Part No. 21253.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
882	20546	Washer, for air supply pipe connection ...	4	BSS. 899	C.
904	N.1303	Washer, for inner cone support cap nut ...	4	C. & A.	C.
†	AGS.160/D	Washer, plain, for set screws (Section 28W/3072)	24	—	—
906	N.1562	Washer, tab, for inner cone baffle bolt ...	12	DTD. 171A	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
TAIL PIPE FIRE GUARD ASSEMBLY. complete as follows:—					
†	A.15Z/1C	Bolt, for cooling pipe clip (Section 28D/7105)	... 8	—	—
†	A.15Z/1E	Bolt, for anchor nut (Section 28D/7517)	... 6	—	—
402	—	Bracket, Support, Group ... consisting of:—	... 3	—	B.
	20782	Bracket, support	... 3	Immaculate 5 or DTD. 171B	
	A.16Z/EP	Nut, plain	... 3	—	
404	15872	Clip, for cooling pipe	... 4	F.D.P.	C.
406	20781A/3	Guard, Fire, Group ... consisting of:—	... 1	—	B.
	21308	Clip, for bottom half	... 6	DTD. 171B	
	20741	Clip, for top half pinch bolt nut	... 6	DTD. 171B	
	20740A/4	Guard, fire, bottom half	... 1	Immaculate 5 or DTD. 171B	
	20739A/4	Guard, fire, top half	... 1		
	20287/1	Head, pinch bolt	... 6	DTD. 525 or S. 61	
	20776A	Housing, hot air junction	... 2	Immaculate 5 or DTD. 171B	
	20814	Nut, and double anchor plate, top half	... 6	—	
	A.16Z/CP	Nut, plain, for pinch bolt (Section 28M/6435)	... 6	—	
	AS.467-405	Rivet, for fire guard	... 18	—	
	AS.467-407	Rivet, for fire guard lagging tape	... 4	—	
	AS.456-303	Rivet, for nut and double anchor plate	... 12	—	
	N.886	Stud, for pinch bolt	... 6	S. 1	
	21463/2	Tape, lagging, for fireguard	... 2	Inconel Bonded Asbestos	
	15054/1	Washer, for pinch bolt nut (See Ref. No. 410)	... 6		
	AGS.162/C	Washer, spring, for pinch bolt (Section 28W/3098)	... 6	—	
†	A.16Z/CP	Nut, plain, for pinch bolt and support ring (Section 28M/6435)	... 14	—	—
408	—	Ring, Support, Group ... consisting of:—	... 1	—	B.
	20755/1	Bracket	... 4	Immaculate 5 or DTD. 171B	
	A.16Z/CP	Nut, plain	... 8	—	
	20756A	Ring, support	... 1	Immaculate 5 or DTD. 171B	
410	15054/1	Washer, for pinch bolt	... 6	DTD. 525 or S. 61	C.
†	AGS.162/C	Washer, spring, for cooling pipe clip bolt and pinch bolt nuts (Section 28W/3098)	14	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
STARTING VALVE AND CONTROL ASSEMBLY. complete as follows:—					
920	20750	Adaptor, inlet	1	S. 1	B.
922	20527	Adaptor, Outlet, Group consisting of:—	1	—	B.
	20525	Adaptor	1	S. 1	
	20526	Nipple	1	S. 1	
	20008	Nut, union	1	S. 1	
924	—	Body for Starting Valve, Group consisting of:—	1	—	B.
	19704/1	Body	1	L. 1	
	A.16Y/EP	Nut, plain, for adaptor studs (Section 28M/756)	4	—	
	N.87i	Stud, for inlet adaptor... (See Ref. No. 968)	2	S. 1	
	AGS.885/C	Stud, for outlet adaptor (Section 28T/2909)	2	—	
	AGS.162/D	Washer, spring, for adaptor nut (Section 28W/3099)	4	—	
926	20326/1	Body, for trip switch	1	L. 1	B.
†	6A.1/12C	Bolt, for starting valve cover (Section 28D/7078)	4	—	—
†	6A.1/14C	Bolt, clamping, for trip switch body (Section 28D/7176)	1	—	—
†	6A.1/18C	Bolt, for starting valve cover (Section 28D/7151)	2	—	—
928	20278B/1	Bracket, for starting valve	1	S. 3	B.
930	20357/2	Cable, Control, Group consisting of:—	1	—	B.
	20355	Adjuster	1	S. 1	
	20359/1	Cable	1	Bowden Cable	
	20360/1	Conduit	1	Bowden Conduit	
	20361	Ferrule, for conduit	2	—	
	20362	Nipple, Bowden type P.N.2104	1	—	
	20356	Nipple, long	1	BS. 249	
932	20330	Cap, for trip switch end piece	1	L. 1	C.
934	20348	Catch-pin, for starting valve... ..	1	Jessops R. 15 or S. 80	C.
936	20343	Cover, for starting valve	1	L. 1	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
938	21512	Diaphragm, Group consisting of :—	1	—	B.
	19717/1	Diaphragm	1	Fabric	
	20345	Pin, locking, piston	1	M.S.	
	20344	Piston	1	Jessops R. 15 or S. 80	
	20015	Washer, clamping	1	S. 1	
	19716	Washer, seating, for piston (See Ref. No. 988)	1	Neoprene	
940	20333	Lever , operating trip switch	1	S. 1	B.
†	AGS.207/A	Nut , lock, for control cable sleeve (Section 28L/672)	1	—	—
942	N.355	Nut , lock, for starting valve adjusting plug... ..	1	—	C.
†	A.16Y/CP	Nut , plain, for starting valve trip switch body bolts (Section 28M/5316)	7	—	—
†	A.16Y/EP	Nut , plain, for adaptor studs (Section 28M/756)	4	—	—
944	20327/1	Piece , end, for trip switch	1	S. 1	C.
946	20351	Pin , for starting valve catch-pin	1	M.S.	C.
948	20328/1	Pin , for trip switch end piece	1	Silver Steel	C.
†	AGS.166/2	Pin , split, for trip switch end piece... (Section 28P/1203)	1	—	—
950	20347	Plug , for adjusting starting valve	1	S. 1	C.
952	20350	Plug , for starting valve catch-pin	1	S. 1	C.
954	N.1704	Screw , locating starting valve catch-pin	1	M.S.	C.
956	20354	Sleeve , for control cable adjuster	1	S. 1	C.
958	20329	Sleeve , for trip switch end piece	1	L. 1	C.
960	20774	Spring , for starting valve	1	Spg. Steel	C.
962	20349/1	Spring , for starting valve catch-pin	1	Spg. Steel	C.
964	20353	Spring , for starting valve catch-pin thimble	1	Spg. Steel	C.
966	20331	Spring , for trip switch end piece	1	Spg. Steel	C.
968	N. 871	Stud , for inlet adaptor	2	S. 1	C.
†	AGS.885/C	Stud , for outlet adaptor (Section 28T/2909)	2	—	—
†	806-96/1	Tab , lockwire, for starting valve bolts (Section 36FF/662)	1	S. 3	—
970	20352	Thimble , for starting valve catch-pin	1	L. 1	C.
972	N.1970	Union , drain, for starting valve	1	S. 1	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
974	—	Valve, Starting and Control, Group 1 — A. consisting of :—			
	20750	Adaptor, inlet (See Ref. No. 920) 1 S. 1			
	20527	Adaptor, outlet, group 1 — (See Ref. No. 922)			
	—	Body for starting valve, group 1 — (See Ref. No. 924)			
	20326/1	Body, for trip switch 1 L. 1 (See Ref. No. 926)			
	6A.1/14C	Bolt, clamping, for trip switch body ... 1 — (Section 28D/7176)			
	6A.1/12C	Bolt, for starting valve cover 4 — (Section 28D/7078)			
	6A.1/18C	Bolt, for starting valve cover 2 — (Section 28D/7151)			
	20278B/1	Bracket, for starting valve 1 S. 3 (See Ref. No. 928)			
	20357/2	Cable, control, group (See Ref. No. 930) ... 1 —			
	20330	Cap, for trip switch end piece 1 L. 1 (See Ref. No. 932)			
	20348	Catch-pin, for starting valve 1 Jessops (See Ref. No. 934) R. 15 or S. 80			
	20343	Cover, for starting valve 1 L.1 (See Ref. No. 936)			
	21512	Diaphragm, Group 1 — (See Ref. No. 938)			
	AGS.207/A	Nut, lock, for control cable adjusting sleeve 1 — (Section 28L/672)			
	N.355	Nut, lock, for starting valve adjusting plug 1 — (See Ref. No. 942)			
	A.16Y/CP	Nut, plain, for starting valve and trip switch 7 — body bolts (Section 28M/5316)			
	20327/1	Piece, end, for trip switch 1 S. 1 (See Ref. No. 944)			
	20351	Pin, for starting valve catch-pin 1 M.S. (See Ref. No. 946)			
	20328/1	Pin, for trip switch end piece 1 Silver Steel (See Ref. No. 948)			
	AGS.166/2	Pin, split, for trip switch end piece ... 1 — (Section 28P/1203)			
	20347	Plug, for adjusting starting valve 1 S. 1 (See Ref. No. 950)			
	20350	Plug, for starting valve catch-pin 1 S. 1 (See Ref. No. 952)			
	N.1704	Screw, locating, starting valve catch-pin ... 1 M.S. (See Ref. No. 954)			
	20354	Sleeve, for control cable adjuster 1 S. 1 (See Ref. No. 956)			

STARTING VALVE AND CONTROL

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Valve, Starting and Control, Group (cont'd)					
	20329	Sleeve, for trip switch end piece (See Ref. No. 958)	1	L. 1	
	20774	Spring, for starting valve (See Ref. No. 960)	1	Spring Steel	
	20349/1	Spring, for starting valve catch-pin (See Ref. No. 962)	1	Spring Steel	
	20353	Spring, for starting valve catch-pin thimble (See Ref. No. 964)	1	Spring Steel	
	20331	Spring, for trip switch end piece (See Ref. No. 966)	1	Spring Steel	
	806-96/1	Tab, lockwire, for starting cover bolts... (Section 36FF/662)	1	S. 3	
	20352	Thimble, for starting valve catch-pin (See Ref. No. 970)	1	L. 1	
	N.1970	Union, drain, for starting valve (See Ref. No. 972)	1	S. 1	
	N.1491	Washer, for starting valve catch-pin... (See Ref. No. 976)	1	L. 1 or L. 3	
	19719/2	Washer, joint, for inlet and outlet adaptors (See Ref. No. 980)	2	Klingerit 1000	
	N.1578	‡ Washer, lock, for drain union (See Ref. No. 982)	1	BS. 899	
	N.1613	‡ Washer, lock, for drain union (See Ref. No. 984)		B. 15	
	N.1608	‡ Washer, lock, for catch-pin plug and control cable adjusting sleeve (See Ref. No. 986)	2	S. 3 or S. 84	
	N.1613	‡ Washer, lock, for catch-pin and control cable adjusting sleeve (See Ref. No. 984)		B. 15	
	AGS.162/B	Washer, spring, for catch-pin locating screw (Section 28W/3097)	1	—	
	AGS.162/C	Washer, spring, for starting valve cover and trip switch body (Section 28W/3098)	7	—	
	—	Wire, locking, 20 S.W.G., for adjusting plug lock nut (Section 30A/2037)	As reqd.	M.S.	
976	N.1491	Washer, for starting valve catch-pin	1	L. 1 or L. 3	C.
978	20335	Washer, for trip switch operating lever	1	S. 1	C.
980	19719/2	Washer, joint, for inlet and outlet adaptors...	2	Klingerit 1000	C.
982	N.1578	‡ Washer, lock, for drain union	1	BS. 899	C.
984	N.1613	‡ Washer, lock, for drain union		B. 15	C.
986	N.1608	‡ Washer, lock, for catch-pin plug and control cable adjusting sleeve	2	S. 3 or S. 84	C.
984	N.1613	‡ Washer, lock, for catch-pin plug and control cable adjusting sleeve		B. 15	C.
988	19716	Washer, seating, for diaphragm piston	1	M.S.	C.

‡ Alternatives

STARTING VALVE AND CONTROL

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Valve, Starting and Control, Group (cont'd)					
†	AGS.162/D	Washer , spring, for adaptors (Section 28W/3099)	4	—	—
†	AGS.162/B	Washer , spring, for catch-pin locating screw (Section 28W/3097)	1	—	—
†	AGS.162/C	Washer , spring, for starting valve cover, and trip switch body (Section 28W/3098)	7	—	—
—	—	Wire , locking, 20 S.W.G., for adjusting plug locknut (Section 39A/2037)	As reqd.	M.S.	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CONTROLS LINKAGE ASSEMBLY. complete as follows :—					
1010	15309	Collar , for bellcrank lever spindle	1	S. 1	C.
1012	17884/1	Lever, Bellcrank, for Control Valve Plunger, Group consisting of :—	1	—	B.
	16925/1	Hub	1	S. 1	
	17886/1	Lever, left hand	1	} S. 3 or S. 84	
	17885/1	Lever, right hand	1		
	AGS.160/C	Washer, for levers (Section 28W/3071) ...	2	—	
1014	17239	Link , connecting, bellcrank lever	1	S. 1	C.
†	AGS.910/2	Nipple , lubricating (Section 28N/6773) ...	1	—	—
†	AGS.166/1	Pin , split, for shackle pin (Section 28P/1201) ...	2	—	—
†	SP.4/D4	Pin , shackle, for connecting link (Section 28P/862) ...	2	—	—
†	AGS.167/12	Pin , taper, for spindle collar (Section 28P/1283) ...	1	—	—
1016	20122A	Spindle , for bellcrank lever	1	S. 1	C.
†	AGS.160/C	Washer , plain, for bellcrank lever (Section 28W/3071) ...	2	—	—
982	N.1578	Washer , tab, for bellcrank lever spindle	1	BS. 899	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
526	20788	FUEL VALVE CONTROL ASSEMBLY. complete as follows:—	1	—	A.
1024	N.2251	Banjo , for barostat connection ...	1	R. 15 or S. 61	C.
1026	N.2241	Banjo , for control body ...	1	R. 15 or S. 80	C.
788	N.2228	Banjo , for dump valve drain ...	1	S. 1	C.
1030	N.2227	Banjo , outlet, for cut-off valve ...	1	S. 1	C.
1032	20382/1	Body , for dump valve inlet union ...	1	S. 1	B.
1033	—	Body, Fuel Valve Control, Group (M.R.) ... consisting of:—	1	—	A.
	21719	Body, for fuel valve control ...	1	L. 1	
	N.2661	Plugging ...	3	L. 1	
	N.827	Stud, for blanking cover (See Ref. No. 181)	2	S. 1	
	AGS.884/D	Stud, for control valve (Section 28T/2912)	2	—	
	AGS.885/E	Stud, for cut-off valve housing (Section 28T/2917)	4	—	
	N.843	Stud, for fuel pump connection (See Ref. No. 598)	3	S. 1	
	N.824	Stud, for plunger cover (See Ref. No. 1096)	2	S. 1	
1035	N.2286	Bolt , banjo, for barostat connection ...	1	S. 2	C.
1036	N.2282	Bolt , banjo, for cut-off valve outlet...	1	S. 1	C.
1037	21499/2	Bush , for fuel valve control (M.R.) ...	1	DTD. 197	C.
1039	16694	Bush , sealing, for control valve (M.R.) ...	1	BS. 250	C.
1038	16864	Circlip , for control valve spindle seal ...	1	—	C.
1040	16695	Circlip , for control valve sealing bush ...	1	Spg. Steel	C.
1042	16696A	Collar , for control valve plunger stop ...	1	S. 1	C.
1044	16697	Collar , for control valve seal... ...	2	L. 1	C.
1046	16865/1	Collar , for control valve spindle seal ...	1	Alum.	C.
1048	19673/1	Connection , for fuel pump ...	1	S. 1	C.
1050	20796	Cover , blanking, for control body ...	1	S. 3	C.
1052	16496A	Cover , for plunger ...	1	S. 1	C.
1053	N.2451	Dowel , locating, for cut-off valve bush (M.R.) ...	1	Silver Steel	C.
1055	N.2452	Dowel , stop, for cut-off valve (M.R.) ...	1	DTD. 176 or CTD. 525	C.
1054	N.3141	Elbow , for minimum pressure valve connection ...	1	—	C.
1058	21501/1	Housing , for fuel cut-off and dump valve (M.R.)	1	DTD. 133 or B. DTD. 272 or DTD. 276	C.
1060	21502	Joint , for fuel cut-off and dump valve housing ...	2	Klingerit 1000	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1062	20486	Lever, for Cut-off Valve, Group ... consisting of :—	1	—	B.
	12855	Ball, lever ...	1	S. 2	
	15896	Boss, lever ...	1	S. 1	
	17412	Lever ...	1	S. 1	
	800-PN.6	Nut, plain, for lever ball ...	1	S. 1	
†	AGS.1140/B	Nipple , blanking, for control body elbow ... (Section 23F/8212)	1	—	—
†	AGS.1140/A	Nipple , blanking, for control body banjo pillar ... (Section 28F/10482)	1	—	—
1066	N.2119	Nipple , blanking, pressure gauge union ...	1	BS.249	C.
1063	21503	Nut , cap, for cut-off valve bush ...	1	S. 1	—
1068	N.354	Nut , lock, for slow running adjusting screw...	1	S. 1	C.
†	A.16Y/CT	Nut , lock, for fuel pump connection ... (Section 28M/753)	3	—	—
†	AGS.1188/A	Nut , for blanking pressure gauge union ... (Section 28M/794)	1	—	—
†	A.16Y/EP	Nut , plain, for blanking cover and cut-off valve housing (Section 28M/756)	6	—	—
†	A.16Y/CP	Nut , plain, for control valve and plunger cover ... (Section 28M/5316)	4	—	—
†	A.16Y/GP	Nut , plain, for valve spindle ... (Section 28M/758)	1	—	—
1069	N.2038	Nut , union, for elbow blanking nipple ...	1	—	—
741	N.2037	Nut , union, for banjo pillar blanking nipple ...	1	—	—
1064	N.2354	Pillar , banjo, for control body ...	1	S. 2	C.
1070	N.2365	Pillar , banjo for dump valve ...	1	S. 1	C.
1072	16498	Pin , for plunger (M.R.) ...	1	M.S.	C.
†	AGS.166/1	Pin , split, for banjo pillar blanking nipple ... (Section 288/1203)	1	—	—
†	AGS.166/2	Pin , split, for elbow blanking nipple ... (Section 288/1201)	1	—	C.
1074	21513	Plug , for fuel cut-off valve ...	1	DTD.525	C.
1076	17949	Plunger , for control valve (M.R.) ...	1	R. 15 or F.D.P.	B.
1078	N.1860	Screw , for adjusting slow running ...	1	S. 1	C.
1080	RD/SD	Seal , composite, for control box out-let banjo ...	1	—	C.
1082	RA/SA	Seal , composite, for reducing union ...	1	—	C.
1084	16991	Seal , control-valve "Gaco" type No. B.6194 ...	2	—	C.
1086	19766	Seal , dump valve ...	1	—	C.
1088	15889/1	Seal , valve spindle, "Gaco" type No. B.1433 ...	1	—	C.
	20380	Seat , for dump valve (M.R.) ...	1	S. 80	—
1090	21504	Spindle , cut-off valve ...	1	Jessops R. 15	B.

FUEL VALVE CONTROL

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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1092	19712	Spring , dump valve	1	DTD. 215	C.
181	N.827	Stud , for control valve blanking cover	2	S. 1	C.
†	AGS.884/D	Stud , for control valve (Section 28T/2912)...	2	—	—
†	AGS.885/E	Stud , for cut-off valve housing (Section 28T/2917)	4	—	—
598	N.843	Stud , for fuel pump connection	3	S. 1	C.
1096	N.824	Stud , for plunger cover	2	S. 1	C.
†	806-96/1	Tab , lockwire, for plunger cover studs (Section 37FF/662)	1	S. 3	—
†	AGS.626/A	Union , reducing, for minimum pressure valve connection (Section 28V/5026)	1	—	—
1097	19764	Valve , dump (M.R.)	1	S. 80	B.
1098	16495/5	Valve , for control body (M.R.)	1	BS. 250	B.
1100	—	Valve, Fuel Cut-off, Group (M.R.) consisting of:—	1	DTD. 525	B.
	21513	Plug (See Ref. No. 1074)	1		
	21498	Valve	1	S. 80	
1102	N.1390	Washer , for control box blanking cover	1	Klingerit 1000	C.
1104	N.1388	Washer , for control valve	2	S. 3	C.
†	1406-42	Washer , for control valve vent pipe banjo bolt (Section 36FF/21244)	2	C. & A.	—
1106	N.1472	Washer , for dump valve drain banjo	2	L. 17	
1108	20381	Washer , for dump valve seal	1	L. 1	C.
1110	N.1481	Washer , for dump valve seat	2	L. 17	C.
1112	N.1105	Washer , for fuel cut-off valve cap nut	1	L. 17	C.
1114	N.1073	Washer , for fuel cut-off valve spindle seal... ..	1	S. 3	C.
1116	19674A/1	Washer , for fuel pump connection	1	} Klingerit 1000	C.
1118	N.1387	Washer , joint, for control valve	1		C.
1120	N.1112	Washer , joint, for control box banjo	2	L. 17	C.
†	AGS.162/C	Washer , spring, for control valve and plunger cover and fuel pump connection (Section 28W/3098)	7	—	—
†	AGS.162/D	Washer , spring, for control box blanking cover and fuel cut-off valve housing nuts (Section 28W/3099)	6	—	—
588	N.1607	Washer , tab, for valve spindle nut	1	S. 84	C.
†	—	Wire , locking, 20 S.W.G., for fuel cut-off valve cap nut and slow running adjusting screw (Section 30A/2037)	As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL PUMP AND ADAPTOR ASSEMBLY. (1 assembly per engine). complete as follows:—					
1128		Adaptor, for Fuel Pump, Group... ... 1 — B.			
		consisting of:—			
	19662/2	Adaptor ... 1 DTD. 281			
	N.878	Stud, for fuel pump ... 6 S. 1 (See Ref. No. 1148)			
1130	N.2226	Banjo, outlet, for control valve and filter ... 1 S. 1 C.			
1132	19740	Bolt, coupling ... 4 S. 1 C.			
1134	19652/1	Coupling, female ... 1 S. 11 B.			
1136	19650/1	Coupling, male ... 1 S. 11 B.			
1138	21482	Fuel Pump Assembly, Group ... 1 — A.			
		consisting of:—			
	N.2226	Banjo, outlet, for control valve and filter ... 1 S. 1 (See Ref. No. 1130)			
	N.662	Nut, cap, for outlet connection pillar... 1 S. 1 (See Ref. No. 1144)			
	N.2359	Pillar, for outlet connection ... 1 S. 2 (See Ref. No. 1146)			
	—	Pump, fuel Dowty, type A.260Y ... 1 — (See Ref. No. 848)			
	N.1984	Union, for inlet connection ... 1 F.D.P. or (See Ref. No. 1152) R. 15			
	N.1962	Union, for inlet connection ... 1 F.D.P. or (See Ref. No. 1153) R. 15			
	N.1477	Washer, for inlet connections ... 2 L. 17 (See Ref. No. 1154)			
	N.1464	Washer, outlet, banjo ... 2 L. 17 (See Ref. No. 1156)			
	N.1470	Washer, pillar ... 1 L. 17 (See Ref. No. 1158)			
1140	19741/2	Fuel Pump Coupling, Group ... 1 B.			
		consisting of:			
	19740	Bolt, coupling (See Ref. No. 1132) ... 4 S. 1			
	19652/1	Coupling, female (See Ref. No. 1134) ... 1 S. 11			
	19650	Coupling, male (See Ref. No. 1136) ... 1 S. 11			
	A.16Y/EP	Nut, coupling (Section 28M/756) ... 4 —			
1142	—	Housing, for Fuel Pump Adaptor, Group ... 1 — B.			
		consisting of:—			
	19659/1	Housing ... 1 DTD. 281			
	AGS.886/D	Stud, for adaptor (Section 28T/2914) ... 4 —			
	19663/1	Stud, for bottom accessory box ... 2 S. 1 (See Ref. No. 1150)			

FUEL PUMP AND ADAPTOR

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	A.16Y/GP	Nut, for adaptor (Section 28M/758)...	4	—	—
1144	N.662	Nut, cap, for outlet connection pillar ...	1	S. 1	C.
†	A.16Y/EP	Nut, for coupling, fuel pump housing to bottom accessory box stud (Section 28M/756)	12	—	—
1146	N.2359	Pillar, for outlet connection ...	1	S. 2	C.
848	—	Pump, fuel, Dowty, type A.260Y ...	1	—	A.
†	AGS.886/D	Stud, for adaptor (Section 28T/2914) ...	4	—	—
1148	N.878	Stud, for fuel pump ...	6	S. 1	C.
1150	19663/1	Stud, for housing to bottom accessory box ...	2	S. 1	C.
1152	N.1984	Union, for inlet connection ...	1	F.D.P. or R. 15	C.
1153	N.1962	Union, for inlet connection ...	1	F.D.P. or R. 15	C.
1154	N.1477	Washer, for inlet connection union ...	2	L. 17	C.
1156	N.1464	Washer, for outlet banjo ...	2	L. 17	C.
1158	N.1470	Washer, for pillar ...	1	L. 17	C.
†	AGS.162/E	Washer, spring, for adaptor and fuel pump (Section 28W/3100)	10	—	—
†	AGS.162/D	Washer, spring, for housing to bottom accessory box (Section 28W/3099)	2	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
STARTER ASSEMBLY. complete as follows :—					
1002	N.2278	Bolt , banjo, oil feed	1	S. 2	C.
1180	19648A/1	Pinion , starter drive	1	S. 82	A.
1182	17896	Plate , adjusting starter bevel... ..	1	S. 3	C.
†	17961/6	Starter , 24 volt, Rotax type C.3801 (Section 37F/4500)	1	—	—
†	1406-42	Washer , banjo (Section 36FF/21244)	2	C. & A.	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
760	—	OVERSPEED GOVERNOR AND DRIVE 1 COUPLING ASSEMBLY. complete as follows :—	—	—	A.
1184	19630A/1	Adaptor , governor	1	DTD. 821	B.
1186	17551	Adaptor , oil jet... ..	1	L. 1	C.
1188	N.2230	Banjo , fuel drain	1	DTD. 525	C.
1002	N.2278	Bolt , banjo for fuel drain and oil jet	2	S. 2	C.
†	6A.1/10C	Bolt , for governor (Section 28D/7077)	4	—	—
1200	N.152	Bolt , extension shaft	3	S. 1	C.
1202	17557	Bush , for oil jet adaptor	1	S. 1	C.
1204	17556	Circlip , coupling shaft	1	DTD. 215	C.
1206	19734	Circlip , for oil seal housing	1	DTD. 215	C.
1210	20644	Connection , outlet	1	S. 1	C.
1216	—	Governor "Ricardo" Type C1114/A4D, Set 1 To Governor Type D.H.2., Group consisting of :—	1	—	A.
	N.2230	Banjo, fuel drain (See Ref. No. 1188)	1	DTD. 525	
	N.2278	Bolt, banjo, for fuel drain (See Ref. No. 1002)	1	S. 2	
	20644	Connection, outlet (See Ref. No. 1210)	1	S. 1	
	21301	Governor	1	—	
	AGS.627/D	Union, inlet (Section 28V/3782)	1	—	
	AGS.950/A	Union, oil drain (Section 28V/)	1	—	
	1406-42	Washer, for fuel drain banjo and oil drain union 3 (Section 36FF/21244)		C. & A.	
	N.1464	Washer, for inlet and outlet connection (See Ref. No. 1156)	2	L. 17	
1218	—	Housing, Oil Seal, Group consisting of :—	1	—	B.
	19734	Circlip (See Ref. No. 206)	1	DTD. 215	
	19733	Housing	1	L. 1	
	19732	Seal oil (See Ref. No. 1172)	1	—	
1160	17552/1	Jet , oil	1	S. 1	C.
†	A.16Y/CP	Nut , plain, for extension shaft and governor bolts 7 (Section 28M/5316)		S. 1	C.
1162	17554	Pad , for extension shaft piston	1	Hard Leather	C.
1164	17553	Piston , extension shaft	1	L. 1	B.
1166	17550/3	Shaft , coupling	1	S. 11	B.
1168	19727B/2	Shaft , extension	1	S. 11	B.
1170	21132	Shim , adjusting, for governor	1	—	C.

OVERSPEED GOVERNOR AND DRIVE COUPLING

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1172	19732	Seal , oil, Perfect type 13724 ...	1	—	C.
1174	17555	Spring , for extension shaft piston ...	1	DTD. 215	C.
1176	21235/1	Splined Shafts, Group ... consisting of :—	1	—	B.
	N.152	Bolt, for extension shaft (See Ref. No. 1200)	3	S. 1	
	A.16Y/CP	Nut, plain, for shaft bolt (Section 28M/5316)	3	—	
	17554	Pad, for extension shaft piston (See Ref. No. 1162)	1	Hard Leather	
	17553	Piston, for extension shaft (See Ref. No. 1164)	1	L. 1	
	17550/3	Shaft, coupling (See Ref. No. 1166) ...	1	S. 11	
	19727B/2	Shaft, extension (See Ref. No. 1168)	1	S. 11	
	17555	Spring, for extension shaft piston (See Ref. No. 1174)	1	DTD. 251	
†	AGS.950/A	Union , for governor oil drain (Section 28V/)	1	—	—
†	AGS.627/D	Union , inlet, for governor (Section 28V/3782)	1	—	—
†	1406-42	Washer , for fuel drain and oil jet banjos and oil drain union (Section 36FF/21244)	5	C. & A.	C.
1156	N.1464	Washer , for inlet and outlet connection ...	2	L. 17	C.
†	AGS.162/C	Washer , spring, for governor bolts ... (Section 28W/3098)	4	—	—
260	N.1579	Washer , tab, for oil jet ...	1	BS. 899	C.
†	—	Wire , locking, 20 S.W.G., for banjo bolt (Section 30A/2037)	As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
OIL SYSTEM ASSEMBLY. complete as follows:—					
1004	N.2240	Banjo, for vacuum pump feed pipe ...	1	DTD. 525 (Jessops R. 15)	C.
†	6A.1/1E	Bolt, for clip (Section 28D/7240) ...	1	—	—
1002	N.2278	Bolt, banjo, for starter and vacuum pump feeds ...	2	S. 2	C.
1190	21071	Clip, for pipe from flow indicator to rear bearing ...	1	S. 84	C.
1192	21072	Clip, for pipe from flow indicator to rear bearing ...	1	S. 84	C.
1194	21073	Clip, for pipe from flow indicator to rear bearing ...	1	S. 84	C.
1196	2319-203/1	Cone, for internal pipe connection ...	1	BS. 249	C.
1198	2319-204/2	Nut, cap, for metering pump ...	1	BS. 249	C.
190	—	Pipe, Feed to Governor, Group ... consisting of:—	1	—	B.
	N.2220	Banjo ...	1	S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
	19251/1	Nipple ...	1	S. 1	
	16869/2	Nut, union ...	1	S. 1	
	21439	Pipe ...	1	T. 26 and Lagging	
192	—	Pipe, Feed to Heywood Compressor, Group ... consisting of:—	1	—	B.
	N.2246	Banjo ...	1	S. 11	
	19251/1	Nipple ...	1	S. 1	
	16869/2	Nut, union ...	1	S. 1	
	20479/2	Pipe ...	1	T. 26	
194	—	Pipe, Feed to Starter, Group ... consisting of:—	1	—	B.
	N.2221	Banjo ...	1	S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
	N.2117	Nipple ...	1	S. 1	
	AGS.1188A	Nut, union ...	1	—	
	19553/3	Pipe ...	1	T. 26	
196	20676	Pipe, feed to vacuum pump ...	1	Titeflex	B.
198	—	Pipe, Flow Indicator to Rear Bearing, Front Half, Group ... consisting of:—	1	—	B.
	N.2117	Nipple ...	2	S. 1	
	AGS.1188A	Nut, union ...	2	—	
	20694/2	Pipe ...	1	T. 26 and Lagging	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1208	—	Pipe, Flow Indicator to Rear Bearing, Rear Half, Group consisting of:—	1	—	B.
	N.2117	Nipple	2	S. 1	
	AGS.1188/A	Nut, union	2	—	
	20687	Pipe	1	T. 26 and Lagging	
202	—	Pipe, Front Casing to Top Accessory Box, Group consisting of:—	1	—	B.
	N.2220	Banjo	2	S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
	19370/3	Pipe	1	T. 26 and Lagging	
1212	19366/4	Pipe, Internal, Lower, for Front Casing, Group consisting of:—	1	—	B.
	N.2219	Banjo	1	S. 1 or S. 6 or S. 21 or S. 14 or DTD. 299	
	19456/1	Junction	1	S. 1 or S. 14 or S. 21 or DTD. 299	
	19457	Junction	1		
	19251/1	Nipple	2	S. 1	
	16869/2	Nut, union	2	S. 1	
	19362	Pipe, feed to front bearing	1	T. 26	
	19363	Pipe, feed to vertical drives	1	T. 26	
	19364	Pipe, feed to vertical drives	1	T. 26	
	19365	Tube	1	T. 26	
1214	—	Pipe, Internal, Upper, for Front Casing, Group consisting of:—	1	—	B.
	19251/1	Nipple	2	S. 1	
	16869/2	Nut, union	2	S. 1	
	19367/2	Pipe	1	T. 26	
208	—	Pipe, Metering Pump to Flow Indicator, Group consisting of:—	1	—	B.
	N.2222	Banjo	1	S. 1 or S. 6 or S. 21 or S. 14 or DTD. 299	
	N.2117	Nipple	1	S. 1	
	AGS.1188A	Nut, union	1	—	
	20483/1	Pipe	1	T. 26 and Lagging	

Ref. No.	Part No.	Nomenclature							No. off	Material Specification	Cl. of St.
210	—	Pipe, Metering Pump to Front Casing, Group							1	—	B.
		consisting of:—									
	N.2222	Banjo	...	...	...	...	...	...	1	S. 1 or S. 6 or S. 21 or S. 14 or DTD. 293	
	N.2219	Banjo	...	...	...	...	...	...	1		
	20484/2	Pipe	...	...	...	...	...	...	1	T. 26 and Lagging	
212	—	Pipe, Pump to Bottom Accessory Box and Front Casing Inlet, Group							1	—	B.
		consisting of:—									
	N.2220	Banjo	...	...	...	...	...	...	1	S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
	19251/1	Nipple	...	...	...	...	...	...	2	S. 1	
	16869/2	Nut, union	...	...	...	...	...	...	2	S. 1	
	17480A	Piece, joint	...	...	...	...	...	...	1	S. 1	
	21442	Pipe	...	...	...	...	...	...	1	T. 26 and Lagging	
	19380/2	Union	...	...	...	...	...	...	1	S. 1 or S. 14 or S. 21 or DTD. 299	
214	—	Pipe, Pump to Metering Pump, Group...							1	—	B.
		consisting of:—									
	N.2220	Banjo	...	...	...	...	...	...	1	S. 1 or S. 6 or S. 14 or S. 21 or DTD. 299	
	19251/1	Nipple	...	...	...	...	...	...	1	S. 1	
	16869/2	Nut, union	...	...	...	...	...	...	1	S. 1	
	20482/2	Pipe	...	...	...	...	...	...	1	T. 26 and Lagging	
†	AGS.627/A	Union, connecting, for front and rear halves of rear bearing pipe (Section 28V/5025)							1	—	—
†	1406-42	Washer, for starter and vacuum pump feed banjos (Section 36FF/21244)							4	C. & A.	—
†	AGS.162/D	Washer, spring, for clip bolt (Section 28W/ 3099)							1	—	—
†	—	Wire, locking, 20 S.W.G., for banjo bolts (Section 30A/2037)							As reqd.	Soft Iron	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL SYSTEM ASSEMBLY. complete as follows :—					
†	6A.1/1E	Bolt , for pressure switch (Section 28D/7240)	2	—	—
†	6A.1/3E	Bolt , for filter bracket (Section 28D/7000)	2	—	—
†	6A.1/11E	Bolt , for filter bracket (Section 28D/7032)	1	—	—
1220	19262/2	Bracket , for accumulator	1	S. 3	B.
1222	20803A/1	Bracket, for Filter, Group consisting of :—	1	—	B.
	20801/1	Boss	4	S. 1	—
	20802/1	Boss	2	S. 1	—
	A.16Y/EP	Nut, plain, for filter studs (Section 28M/756)	3	—	—
	20800A/1	Plate	1	S. 3	—
	N.856	Stud, for filter (See Ref. No. 1264)	3	S. 1	—
	AGS.162/D	Washer, spring, for filter nuts (Section 28W/3099)	3	—	—
1224	20645/1	Bracket , for pressure switch	1	S. 3	B.
1226	19337/1	Clip , for fuel ring end connection, L.H.	1	S. 84	C.
1228	19338/1	Clip , for fuel ring end connection, R.H., and pressure test switch connection	2	S. 84	C.
1230	19339/2	Clip , for $\frac{1}{4}$ " and $\frac{5}{16}$ " fuel ring connection, L.H.	1	S. 84	C.
1232	19340/1	Clip , for $\frac{1}{4}$ " and $\frac{5}{16}$ " fuel ring connection, R.H.	1	S. 84	C.
1234	19341/1	Clip , for $\frac{5}{16}$ " and $\frac{5}{16}$ " fuel ring connection	2	S. 84	C.
1236	19342/1	Clip , for $\frac{5}{16}$ " and $\frac{3}{8}$ " fuel ring connection, L.H.	1	S. 84	C.
1238	19343/1	Clip , for $\frac{5}{16}$ " and $\frac{3}{8}$ " fuel ring connection, R.H.	1	S. 84	C.
1240	19344/1	Clip , for $\frac{3}{8}$ " and $\frac{3}{8}$ " fuel ring connection	4	S. 84	C.
332	—	Filter, "Puralator" Type, Group consisting of :—	1	—	A.
	20798/1	Filter	1	—	—
	AGS:950/D	Union (Section 28V/)	1	—	—
	N.1468	Washer, for union (See Ref. No. 1270)	1	L. 17	—
†	A.16Y/EP	Nut , plain, for filter bracket and pressure switch studs bolts (Section 28M/756)	6	—	—
1244	21187	Pipe , control box to barostat	1	Titeflex	B.
338	19466/1	Pipe , control box to governor	1	Silvolux	B.

FUEL SYSTEM

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
340	19739/1	Pipe, feed to burner	1	Silvoflex	B.
342	20717/1	Pipe, feed to burner	15		B.
344	20807	Pipe, filter to barostat... ..	1		B.
346	20806/1	Pipe, fuel pump to control box	1		B.
348	20917	Pipe, fuel pump to filter	1		B.
1250	20470A	Pipes, Fuel Ring, Group consisting of:—	1	—	B.
	19337/1	Clip, for end connection, L.H. (See Ref. No. 1226)	1	S. 84	
	19338/1	Clip, for end connection, R.H. (See Ref. No. 1228)	1	S. 84	
	19339/2	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection, L.H. (See Ref. No. 1230)	1	S. 84	
	19340/1	Clip, for $\frac{1}{4}$ " and $\frac{5}{16}$ " connection, R.H. (See Ref. No. 1232)	1	S. 84	
	19341/1	Clip, for $\frac{5}{16}$ " and $\frac{5}{16}$ " connection (See Ref. No. 1234)	2	S. 84	
	19342/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection, L.H. (See Ref. No. 1236)	1	S. 84	
	19343/1	Clip, for $\frac{5}{16}$ " and $\frac{3}{8}$ " connection, R.H. (See Ref. No. 1238)	1	S. 84	
	19344/1	Clip, for $\frac{3}{8}$ " and $\frac{3}{8}$ " connection (See Ref. No. 1240)	4	S. 84	
	19081B/2	Connection, end, for pipe	2	S. 14 or S. 21	
	19082B/1	Connection, for $\frac{1}{4}$ " and $\frac{5}{16}$ " pipe	2		
	19083B/1	Connection, for $\frac{5}{16}$ " pipe	2		
	19084B/1	Connection, for $\frac{5}{16}$ " and $\frac{3}{8}$ " pipe	2	S. 14 or S. 21 or DTD. 299	
	19085B/1	Connection, for $\frac{3}{8}$ " pipe	6		
	19086/3	Connection, inlet	1		
	19090B	Pipe, $\frac{1}{4}$ " dia.	2	Bundylim Tube	
	19091B	Pipe, $\frac{5}{16}$ " dia.	4		
	19092B	Pipe, $\frac{3}{8}$ " dia.	6		
	19094B	Pipe, $\frac{3}{8}$ " dia., short, L.H.	1		
	19093B	Pipe, $\frac{3}{8}$ " dia., short, R.H.	1		
	AS.455/303	Rivet, for connection clips (Section 28Q/1919)	24	—	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
354	—	Pipe, Fuel Ring to Pressure Switch Connection, Group consisting of:—	1	—	B.
	19338/1	Clip, for pipe connection (See Ref. No. 1228)	1	S. 84	
	19081B/2	Connection	1	S. 14 or S. 21 or DTD. 299	
	N.2109	Nipple	1	S. 1 or S. 14 or DTD. 299	
	N.2020	Nut, union	1	S. 1	
	20690	Pipe	1	T. 26	
	AS.455/303	Rivet, for connection clip (Section 28Q/1919)	2	—	
1256	—	Pipe, Fuel Ring to Pressure Switch, Group consisting of:—	1	—	B.
	N.2112	Nipple	2	S. 14 or S. 21 or DTD. 299	
	N.2020	Nut, union	2	—	
	20691/1	Pipe	1	T. 26	
356	—	Pipe, Governor to Accumulator, Group consisting of:—	1	—	B.
	19672	Connection	1	S. 1 or S. 6	
	20677/2	Pipe	1	Silvoflex	
358	20149B/1	Pipe, governor to starting valve	1	Silvoflex	B.
360	—	Pipe, Starting Valve to Dump Valve, Group consisting of:—	1	—	B.
	AGS.952/B	Collar	2	—	
	AGS.954/B	Nut, union	2	—	
	20282	Pipe	1	T. 26	
†	AS.455/303	Rivet, for clips (Section 28Q/1919)	26	—	—
1264	N.856	Stud, for filter	3	S. 1	C.
364	20730/1	Switch, pressure, Smiths type 239 P.G.	1	—	B.
†	AGS.950/D	Union, for filter (Section 28V/)	1	—	—
†	AGS.160/D	Washer, plain, for filter and bracket (Section 28W/3072)	2	—	—
1270	N.1468	Washer, for filter union	2	L. 17	C.
†	AGS.162/D	Washer, spring, for filter bracket and pressure switch (Section 28W/3099)	8	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
FUEL AND OIL DRAIN SYSTEM ASSEMBLY. complete as follows:—					
1280	N.2239	Banjo , for drain pipes	1	DTD. 525 Jessops R. 15	C.
†	6A.1/11E	Bolt , for drain connection bracket (Section 28D/7032)	2	—	—
†	6A.1/3C	Bolt , for fuel drain valve (Section 28D/6993) ...	2	—	—
1282	20738/1	Bracket , for drain connection	1	S. 3	B.
1284	17950C/1	Connection, Drain, Group consisting of:—	1	—	B.
	20692	Boss, connection	2	S. 1	
	17930A/1	Connection	3	S. 1	
	17926	Connection	1	S. 1	
	17928	Connection	1	S. 1	
	19267A	Tube	1	R. 26	
†	AGS.1156/A	Elbow , for governor to drain connection fuel pipe (Section 28F/)	1	—	—
†	AGS.1156/B	Elbow , for governor to drain connection oil pipe (Section 28F/)	1	—	—
†	A.16Z/CP	Nut , for fuel drain valve (Section 28M/6435) ...	2	—	—
718	—	Pipe, Accumulator to Drain Connection, Group consisting of:—	1	—	B.
	N.2218	Banjo	1	S. 1 or S. 6 or S. 14 or S. 21	
	19251/1	Nipple	1	S. 1	
	16869/2	Nut, union	1	S. 1	
	20718B	Pipe	1	T. 26	
720	19468A/2	Pipe , barostat to dump valve	1	Titeflex	B.
722	—	Pipe, Drain, L.H., Combustion Chamber, Group consisting of:—	1	—	B.
	N.2220	Banjo	1	DTD. 299 or S. 1 or S. 6 or S. 21 or S. 14	
	19251/1	Nipple	1	S. 1	
	16869/2	Nut, union	1	S. 1	
	19840/2	Pipe	1	T. 26	

FUEL AND OIL DRAIN SYSTEM

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
724	—	Pipe, Drain, R.H., Combustion Chamber, Group 1	—		B.
		consisting of:—			
	N.2220	Banjo 1	1	DTD. 299 or S. 1 or S. 6 or S. 21 or S. 14	
	20156	Body, valve 1	1	DTD. 299 or S. 1 or S. 21 or S. 14	
	19251/1	Nipple 1	1	S. 1	
	16869/2	Nut, union 1	1	S. 1	
	19839/2	Pipe 1	1	T. 26	
340	19739/1	Pipe, dump valve to drain connection 1	1	Silvoflex	B.
728	19676/1	Pipe, fuel, governor to drain connection 1	1	Titeflex	B.
730	—	Pipe, Hydraulic Pump to Drain Connection, Group 1	—		B.
		consisting of:—			
	N.2117	Nipple 2	2	S. 1	
	AGS.1188/A	Nut, union 2	2	—	
	19526/3	Pipe 1	1	T. 26 and Bestobel Lagging	
732	20618/1	Pipe, oil, governor to drain connection 1	1	Titeflex	B.
738	—	Pipe, Rear Bearing to Drain Connection, Group 1	—		B.
		consisting of:—			
	N.2117	Nipple 1	1	S. 1	
	AGS.1188/A	Nut union 2	2	—	
	20688	Pipe 1	1	T. 26	
736	—	Pipe, Combustion Chamber Valve to Drain Connection, Group 1	—		B.
		consisting of:—			
	19251/1	Nipple 1	1	S. 1	
	16869/2	Nut, union 1	1	S. 1	
	20826A/1	Pipe 1	1	T. 26	
	20155	Seat, valve 1	1	DTD. 299 or S. 1 or S. 21 or S. 14	
1304	17130/1	Plate, valve, fuel drain 1	1	F.D.P. or S. 85	C.
1306	N.2275	Screw, banjo, for drain pipes 3	3	S. 1	C.
1308	17131	Spring, valve, for fuel drain 1	1	DTD. 215	C.
1310	N.1975	Union, oil drain, for hydraulic pump 1	1	S. 1	C.
†	1305-12	Washer, banjo, for drain pipes 6 (Section 36FF/3638)	6	B. 15	—
†	AGS.194/2	Washer, lock, for fuel drain valve 4 (Section 28L/702)	4	—	—
†	AGS.162/D	Washer, spring, for drain connection bracket 2 (Section 28W/3099)	2	—	—
—	—	Wire, locking, 20 S.W.G., for banjo screws As (Section 30A/2037) reqd.	As reqd.	M.S.	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
AIR COOLING SYSTEM ASSEMBLY. complete as follows :—					
†	6A.1/3E	Bolt , for rear bearing pipe flanges (Section 28D/7000)	4	—	—
1320	13940/1	Bolt , securing support clip, for rear bearing pipe	4	S. 1	C.
252	19877/1	Clip , for rear bearing pipe	2	S. 3 or S. 84	C.
1322	13939	Clip , support, for rear bearing pipe	2	S. 3	C.
380	N.1386	Joint , for rear bearing pipes	2	Klingerit	C.
†	AGS.903/F	* Nipple , for pipes to tail pipe (Section 28F/)	8	—	—
†	AGS.953/F	Nipple , for pipes to tail pipe (Section 28F/6164)	8	—	C.
†	A.16Y/EP	Nut , for bolts for rear bearing pipe flanges (Section 28M/756)	4	—	—
256	—	Pipe, to Rear Bearing, Front Section, Left Hand, Group consisting of :—	1	—	B.
	19777/1	Elbow	1	S. 6	—
	20743/2	Flange	1	S. 3 or S. 84	—
	20864/3	Pipe	1	T. 26	—
258	—	Pipe, to Rear Bearing, Front Section, Right Hand, Group consisting of :—	1	—	—
	19777/1	Elbow	1	S. 6	—
	20743/2	Flange	1	S. 3 or S. 84	—
	21366	Pipe	1	T. 26	—
1328	—	Pipe, to Rear Bearing, Rear Section, Group consisting of :—	2	—	B.
	20743/2	Flange	2	S. 3 or S. 84	—
	20861/1	Pipe	1	T. 26	—
1330	—	* Pipe, to Tail Pipe, Front Section, Group consisting of :—	4	—	B.
	AGS.902/F	Collar	1	—	—
	20745	Pipe	1	DTD. 310B	—
	N.2981	Sleeve, inner	1	S. 1	—
	N.2032	Nut, union	1	S. 1	—

Ref. No.	Part No.	Nomenclature							No. off	Material Specification	Cl. of St.
262	—	Pipe, to Tail Pipe, Front Section, Group...							4	—	B.
		consisting of :—									
	AGS.952/F	Collar	...	...	...	...	...	...	1	—	
	20810/3	Pipe	...	...	...	...	...	...	1	T. 26	
	N.2980	Sleeve, inner	...	...	...	...	...	...	1	S. 1	
	N.2031	Nut, union	...	...	...	...	...	...	1	S. 1	
—	—	* Pipe, to Tail Pipe, Intermediate Section, Group							4	—	B.
		consisting of :—									
	AGS.902/F	Collar	...	...	...	...	...	...	1	—	
	20746	Pipe	...	...	...	...	...	...	1	DTD. 310B	
	N.2981	Sleeve, inner	...	...	...	...	...	...	1	S. 1	
	N.2032	Nut, union	...	...	...	...	...	...	1	S. 1	
264	—	Pipe, to Tail Pipe, Intermediate Section, Group							4	—	B.
		consisting of :—									
	AGS.952/F	Collar	...	...	...	...	...	...	1	—	
	20811/1	Pipe	...	...	...	...	...	...	1	T. 26	
	N.2980	Sleeve, inner	...	...	...	...	...	...	1	S. 1	
	N.2031	Nut, union	...	...	...	...	...	...	1	S. 1	
266	—	Pipe, to Tail Pipe, Rear Section, Long, Group							2	—	B.
		consisting of :—									
	AGS.952/F	Collar	...	...	...	...	...	...	1	—	
	17756/3	Elbow	...	...	...	...	...	...	1	S. 6	
	20748	Pipe	...	...	...	...	...	...	1	T. 26	
	N.2031	Sleeve, outer	...	...	...	...	...	...	1	S. 1	
268	—	Pipe, to Tail Pipe, Rear Section, Group...							2	—	B.
		consisting of :—									
	AGS.952/F	Collar	...	...	...	...	...	...	1	—	
	17756/3	Elbow	...	...	...	...	...	...	1	S. 6	
	20747/3	Pipe	...	...	...	...	...	...	1	T. 26	
	N.2031	Sleeve, outer	...	...	...	...	...	...	1	S. 1	
†	AGS.162/D	Washer, spring, for rear bearing pipe flange bolt nuts							4	—	
		(Section 28W/3099)									
†	—	Wire, locking, 20 S.W.G., for pipe connections							As	M.S.	
		(Section 30A/2037)							reqd.		

Ref. Nlo.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1340	20030	ACCESSORY BOX, TOP, ASSEMBLY. ... 1 — A. complete as follows:—			
1342	19145A/3	Adaptor , Heywood compressor drive ... 1 DTD. 281 B.			
1004	N.2240	Banjo , for Heywood compressor oil feed ... 1 DTD. 525 C. Jessop's R. 15			
1346	N.2248	Banjo , for vacuum pump oil pressure gauge oil feed 1 — C.			
1348	13701	Bearing , ball, for generator drive housing (Hoffmann type No. L.30N, 30 m/m × 62 m/m × 10 m/m) 2 — B.			
1350	13654	Bearing , ball, for Heywood compressor drive adaptor, housing and vacuum pump drive housing (Hoffmann type No. L.20N, 20 m/m × 42 m/m × 9 m/m) 6 — B.			
14	13546	Bearing , ball, for horizontal shaft front housing (Hoffmann type No.... L.88, $\frac{3}{4}$ " × $1\frac{7}{8}$ " × $\frac{9}{16}$ ") 1 — B.			
1354	13529	Bearing , ball, for horizontal shaft rear housing (Hoffmann type No. L.89, $\frac{7}{8}$ " × 2" × $\frac{9}{16}$ ") 1 — B.			
18	13536	Bearing , ball, for vertical shaft pinion housing (Hoffmann type No. 125, 25 m/m × 52 m/m × 15 m/m) 1 — B.			
20	15379	Bearing , ball, for vertical shaft pinion housing (Hoffmann type No. L.25N, 25 m/m × 52 m/m × 9 m/m) 1 — B.			
1002	N.2278	Bolt , banjo, for vacuum pump, compressor and wheel case cover oil feeds 3 S. 2 C.			
†	A.15Y/5E	Bolt , for Heywood compressor ... 6 — —			
		(Section 28D/7066)			
1360	—	Box, Accessory, Top, Group ... 1 — A. consisting of:—			
	17493/4	Box, accessory ... 1 DTD. 281			
	—	Cover, top accessory box, group ... 1 — (See Ref. No. 1388)			
	N.2432	Dowel ... 2 S. 1			
	A.16Y/EP	Nut, plain, for compressor drive horizontal shaft, horizontal shaft rear bearing and vertical shaft pinion housings and engine speed generator and vacuum pump (Section 28M/756) 26 —			
	A.16Y/CP	Nut, plain, for cover (Section 28M/5316) ... 13 —			
	A.16Y/JP	Nut, plain, for generator (Section 28M/760) ... 8 —			
	AGS.885/F	Stud, for compressor drive housing and vacuum pump (Section 28T/2921) 12 —			
	AGS.884/C	Stud, for cover (Section 28T/2908) ... 13 —			
	AGS.885/I	Stud, for engine speed generator (Section 28T/2933) ... 1 —			
	AGS.887/H	Stud, for generator (Section 28T/2931) ... 8 —			
	AGS.885/C	Stud, for horizontal shaft housing (Section 28T/2909) ... 6 —			

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Box, Accessory Top, Group (cont'd)					
	AGS.885/B	Stud, for horizontal shaft rear bearing and vertical shaft pinion housings (Section 28T/2905)	7	—	
	806-96/1	Tab, lockwire, for cover stud (Section 36FF/662)	2	S. 3	
	AGS.194/3	Washer, lock, for horizontal shaft, horizontal shaft rear bearing and vertical shaft pinion housings (Section 28L/703)	13	—	
	AGS.162/D	Wqsher, spring, for compressor drive housing, engine speed generator and vacuum pump (Section 28W/3099)	13	—	
	AGS.162/C	Washer, spring, for cover (Section 28W/3098)	13	—	
	AGS.162/F	Washer, spring, for generator (Section 28W/3101)	8	—	
1362	13594/2	Cap , for oil filler	1	L. 1	B.
1364	13702	Circlip , for generator drive bearing	2	—	C.
1366	13922	Circlip , for generator drive bearing oil seal	2	Sp. Steel	C.
1368	13915	Circlip , for generator drive, driven gear locking nut	1	DTD. 215	C.
1370	13655	Circlip , for Heywood compressor and vacuum pump drive bearings	3	—	C.
1372	19507	Circlip , for tachometer drive shaft oil seal... ..	1	DTD. 215	C.
1373	2903-7	Circlip , for vertical shaft pinion	1	DTD. 215	C.
1374	13697/2	Collar , spacing, for Heywood compressor and vacuum pump drive bearings	2	S. 1	C.
1376	19179	Collar , spacing, for Heywood compressor drive bearings	1	S. 1	C.
78	15380	Collar , spacing, for vertical shaft pinion bearings	1	S. 1	C.
1380	17087/2	Cover , blanking for generator facing	1	DTD. 59A	B.
1382	13670	Cover, Breather, Group consisting of:—	1	—	B.
	13668	Cover	1	T. 26	
	13669	Plate	1	S. 3	
1384	15370	Cover , horizontal shaft housing	1	L. 3	B.
86	13547/1	Cover , retaining, for horizontal shaft front bearing	1	S. 3	B.
1388	—	Cover, Top, Accessory Box, Group consisting of:—	1	—	B.
	17494A/4	Cover	1	DTD. 281	
	802-59	Dowel	4	M.S. wire	
	N.2513	Ferrule	3	BS. 249	
	N.2515	Ferrule	1	BS. 249	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Cover, Top, Accessory Box, Group (continued)					
	A.16Y/CT,	Nut, lock, for breather studs (Section 28L/753)	2	—	
	A.16Y/EP	Nut, plain, for engine speed generator studs (Section 28M/756)	2	—	
	A.16Y/CP	Nut, plain, for oil feed jet and tachometer drive housing studs (Section 28M/5316)	8	—	
	N.2670	Plugging, 4 B.A. × 20" long	1	L. 1	
	N.879	Stud, for breather (See Ref. No. 1494)	2	S. 1	
	AGS.884/C	Stud, for tachometer drive housing (Section 28T/2908)	4	—	
	AGS.885/C	Stud, for engine speed generator (Section 28T/2909)	2	—	
	N.825	Stud, for oil feed jets (See Ref. No. 1496)	4	S. 1	
	2301-70	Washer, lock, for tachometer drive nuts (Section 36FF/11468)	4	B. 15	
	N.1600	Washer, lock, for oil feed jets (See Ref. No. 1526)	2	S. 84	
	AGS.194/2	Washer, lock, for oil feed jets (Section 28L/702)	2	—	
	AGS.162/C	Washer, spring, for breather (Section 28W/3098)	2	—	
	AGS.162/D	Washer, spring, for engine speed generator... (Section 28W/3099)	2	—	
1390	N.2462	‡Dowel, .010" oversize, for top accessory box cover and compressor drive housing	3	S. 1	C.
1392	N.2463	‡Dowel, .020" oversize, for top accessory box cover and compressor drive housing		S. 1	C.
1394	17457/1	Filter, oil...	1	T. 4	C.
1396	16178/4	Gear, driven, generator drive	1	S. 28	A.
1398	17612/5	Gear, driven, tachometer drive	1	S. 14 or S. 15	A.
1400	16190A/3	Gear, driving, generator	1	S. 28	A.
1402	16169A/2	Gear, driving Heywood compressor	1	S. 28	A.
1404	16166/4	Gear, driving, horizontal shaft	1	S. 28	A.
1406	20237	Gear, driving, Heywood compressor and vacuum pump	2	S. 15	A.
1408	19147B	Gear, internal, Heywood compressor drive...	1	S. 11	A.
1410	19693/2	Housing, for generator drive bearing	2	DTD. 281	B.
1412	19146/3	Housing, for Heywood compressor drive	1	DTD. 281	B.
1414	—	Housing, Horizontal Shaft, Group consisting of :—	1	—	B.
	15368/4	Housing	1	DTD. 281	
	A.16Y/CP	Nut, plain, for housing cover stud (Section 28M/5316)	6	—	

‡ Alternatives

ACCESSORY BOX TOP

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Housing, Horizontal Shaft, Group (continued)					
	A.16Y/EP	Nut, plain, for front bearing housing stud ... (Section 28M/756)	3	—	
	AGS.884/B	Stud, for housing cover ... (Section 28T/2904)	6	—	
	AGS.885/B	Stud, for front bearing housing ... (Section 28T/2905)	3	—	
	AGS.194/3	Washer, lock, for front bearing housing nut ... (Section 28L/703)	3	—	
	AGS.162/C	Washer, spring, for housing cover stud ... (Section 28W/3098)	6	—	
108	13545/1	Housing , for horizontal shaft front bearing...	1	S. 6	B.
1418	16185/1	Housing , for horizontal shaft rear bearing...	1	S. 6	B.
1420	19694/4	Housing , for vacuum pump drive ...	1	DTD. 281	B.
1422	15377/2	Housing , for vertical shaft pinion ...	1	S. 6	B.
1424	—	Housing for Tachometer Drive, Group... consisting of :—	1	—	B.
	17616/1	Bush ...	1	B. 8	
	17615/2	Housing ...	1	DTD. 281	
	AGS.884/C	Stud (Section 28T/2908) ...	4	—	
1426	—	Jet, Front Oil Feed, Group consisting of :—	1	—	C.
	20531A/1	Jet ...	1	L. 1	
	2218-57/1	Plugging ...	1	L. 1	
1428	19729A/2	Jet , rear, oil feed ...	1	L. 1	C.
1430	N.2580	Key , for Heywood compressor driving gear...	1	S. 24 or S. 69	C.
1432	N.2586	Key , for vacuum pump driven gear ...	1	S. 24 or S. 69	C.
1434	20967/2	Nipple , front oil jet ...	1	L. 1 or DTD. 423	C.
1436	19986	Nut , for drain pipe end piece ...	1	S. 1	C.
†	A.16Y/CT	Nut , lock, for breather stud ... (Section 28L/753)	2	—	—
1438	13703/4	Nut , locking, for generator drive driven gear ...	1	S. 1	C.
1450	N.745	Nut , locking, for Heywood compressor driving and internal gears, horizontal shaft and vacuum pump driven gear	5	S. 1	C.
142	N.742	Nut , locking, for vertical shaft pinion ...	1	S. 1	C.
†	A.16Y/EP	Nut , plain, for compressor drive horizontal shaft front and rear bearings, vertical shaft pinion hous- ings, engine speed generator, vacuum pump studs and Heywood compressor bolts (Section 28M/756)	37	—	—
†	A.16Y/JP	Nut , plain, for generator stud (Section 28M/760) ...	8	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	A.16Y/CP	Nut , plain, for horizontal shaft housing cover, oil feeds jets, tachometer drive housing and top accessory box cover studs (Section 28M/5316)	27	—	—
1454	20966/2	Piece , distance, for front and rear oil jets	2	L. 1 or DTD. 423	C.
†	AGS.166/14	Pin , split, for drain pipe and piece nut (Section 28P/1226)	1	—	—
†	AGS.167/12	Pin , taper, for tachometer driven gear (Section 28P/1283)	1	—	—
1456	19148A/1	Pinion , Heywood compressor drive	1	S. 28	A.
1458	19836/3	Pinion , vertical shaft	1	S. 82 or DTD. 519	A.
1460	20641B/1	Pipe, Drain, Group consisting of :—	1	—	B.
	19984	Piece, end	1	S. 1	
	20637A/1	Pipe	1	T. 26	
1462	13704	Plate , locking, for generator drive lock nut... ..	1	S. 3 or S. 84	C.
1464	19884/2	Plug , for oil thermometer pocket	1	S. 1	C.
†	AGS.566/D	Plug , blanking, for drain elbow and vacuum pump air exhaust connection (Section 28R/)	2	—	—
1466	N.2745	Plug , blanking, for top accessory box cover... ..	1	F.D.P.	C.
1468	N.2746	Plug , blanking, for top accessory box cover oilway	1	S. 1	C.
1470	N.1626	Screw , countersunk, for compressor and vacuum pump drive housings	4	S. 1	C.
1472	N.1621	Screw , countersunk, for generator drive bearing housing	4	S. 1	C.
1474	N.1700	Screw , set, for oil strainer	3	S. 1	C.
1476	13824	Seal , oil " Perfect " type No. 219116, for generator drive bearing housing	1	—	C.
1478	13825	Seal , oil " Perfect " type No. 21916, for generator drive bearing housing	1	—	C.
1480	19506	Seal , oil " Gaco " type No. .B.2282, for tachometer drive housing	1	—	C.
1482	19921A/1	Shaft, and Adaptor, Horizontal, Group consisting of :—	1	—	B.
	19922A	Adaptor	1	S. 2	
	AGS.167/13	Pin, taper	1	—	
	19924A/1	Shaft	1	S. 11	
1484	—	Shaft, Tachometer, Driving, Group consisting of :—	1	—	B.
	17612/5	Gear, driven (See Ref. No. 1398)	1	S. 14 or S. 15	
	17614/2	Pin, driving	2	S. 1	
	AGS.167/12	Pin, taper (Section 28P/1283)	1	—	
	17613/1	Shaft, driving	1	S. 1	

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1486	17611/10	Shaft and Housing, Tachometer Drive, Group 1 — B.			
		consisting of :—			
	19507	Circlip (See Ref. No. 1372) 1	1	DTD. 215	
	—	Housing for tachometer drive, group (See Ref. No. 1424) 1	1	—	
	19506	Seal, oil “ Gaco ” type No. B.2282 1	1	Fin.	
	—	Shaft, tachometer driving, group (See Ref. No. 1484) 1	1	—	
1488	16168/1	Shaft, vacuum pump driving 1	1	S. 11	B.
1490	16316	Spring, for breather tube 1	1	Spring Steel	C.
1492	19284A	Strainer, Oil Filter, Group... 1 — B.			
		consisting of :—			
	19282A	Gauze 1	1	Brass Gauze	
	19283A	Plate 2	2	S. 3	
1494	N.879	Stud, for breather 2	2	S. 1	C.
†	AGS.885/F	Stud, for compressor drive housing and vacuum pump 12 — —			
		(Section 28T/2921)			
†	AGS.885/I	Stud, for engine speed generator 1 — —			
		(Section 28T/2933)			
†	AGS.885/C	Stud, for engine speed generator and horizontal shaft 8 — —			
		housing (Section 28T/2909)			
†	AGS.887/H	Stud, for generator (Section 28T/2931) 8 — —			
†	AGS.884/B	Stud, for horizontal shaft housing cover 6 — —			
		(Section 28T/2904)			
†	AGS.885/B	Stud, for horizontal shaft front and rear bearing and 10 — —			
		vertical shaft pinion housings (Section 28T/2905)			
1496	N.825	Stud, for oil feed jets 4	4	S. 1	C.
†	AGS.884/C	Stud, for tachometer drive housing and top accessory 17 — —			
		box cover (Section 28T/2908)			
†	806-96/1	Tab, lockwire, for accessory box cover joint face 2 S. 3 —			
		(Section 36FF/662)			
1498	19978	Thimble, for breather tube 1	1	Alum.	C.
1500	20214/1	Tube, Breather, Group 1 B.			
		consisting of :—			
	19974/1	Flange 2	2	S. 1	
	19973/1	Tube 1	1	T. 26	
	19975/1	Washer 1	1	M.S.	
1502	16172	Washer, adjusting, for generator driven gear ... 1	1	S. 1	C.
1504	13564/2	Washer, adjusting, for generator driving gear ... 1	1	S. 3 or S. 1	C.
230	13552/1	Washer, adjusting, for Heywood compressor drive 2	2	S. 3 or S. 1	C.
		internal gear and horizontal shaft driving gear			
1508	16174/1	Washer, adjusting, for Heywood compressor driving 1	1	S. 3 or S. 1	C.
		gear			

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1510	13565/2	Washer, adjusting, for Heywood compressor and vacuum pump driving gears	1	S. 1 or S. 3	C.
1512	15378	Washer, adjusting, for vertical shaft pinion lock nut	1	S. 3 or S. 1	C.
1514	N.1485	Washer, for drain elbow plug	1	L. 17	C.
†	1406-42	Washer, for oil feed banjos (Section 36FF/21244)	6	C. & A.	—
1516	N.1223	Washer, for oil filler	1	Soft Leather	C.
†	AGS.974/6	Washer, for oil thermometer plug (Section 28W/)	1	—	—
†	AGS.194/3	Washer, lock, for horizontal shaft front and rear bearing and vertical shaft pinion housing nuts (Section 28L/703)	16	—	—
†	AGS.194/2	Washer, lock, for oil feed jet nuts (Section 28L/702)	2	—	—
1518	N.1145	Washer, for top accessory box cover blanking plug	1	L. 16 or L. 17	C.
1156	N.1464	Washer, for vacuum pump air exhaust connection blanking plug	1	L. 17	C.
1522	19979	Washer, joint, for bottom breather tube	1	} Synthetic rubber	C.
1524	19977	Washer, joint, for top breather tube	1		C.
1526	N.1600	Washer, lock, for oil feed jet nuts	2	S. 84	C.
†	2301-70	Washer, lock, for tachometer drive housing stud (Section 36FF/11468)	4	B. 15	—
1528	N.1190	Washer, plain, for vertical shaft pinion locknut ...	1	S. 84	C.
244	N.1102	Washer, plain, for vertical shaft bearing	1	S. 84	C.
†	AGS.162/C	Washer, spring, for breather, horizontal shaft housing cover and top accessory box cover (Section 28W/3098)	21	—	—
†	AGS.162/D	Washer, spring, for compressor drive housing, engine speed generator, vacuum pump studs and Heywood compressor (Section 28W/3099)	21	—	—
†	AGS.162/F	Washer, spring, for generator (Section 28W/3101)	8	—	—
1532	N.2830	Washer, tab, for the Heywood compressor drive internal gear and horizontal shaft lock nuts	3	S. 84	C.
1534	N.2831	Washer, tab, for Heywood compressor driving gear and vacuum pump driven gear lock nuts	2	S. 84	C.
260	N.1579	Washer, tab, for top accessory box cover oilway plug	1	BS. 899	C.
236	N.2838	Washer, tab, for vertical shaft pinion lock nut ...	1	S. 84	C.

ACCESSORY BOX TOP

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
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Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1540	17916	ACCESSORY BOX, BOTTOM, ASSEMBLY. complete as follows :—	1	—	A.
1004	N.2240	Banjo , for starter feed pipe	1	DTD. 525	C.
1350	13654	Bearing , ball, fuel pump governor and hydraulic pump drive housings (Hoffmann type No. L.20N, 20 m/m. × 42 m/m × 9 m/m)	4	—	B.
14	13546	Bearing , ball, horizontal shaft front and rear housings (Hoffmann type No. L.S.8, $\frac{3}{4}$ " × $1\frac{7}{8}$ " × $\frac{9}{16}$ ")	2	—	B.
18	13536	Bearing , ball, vertical shaft pinion housing (Hoff- mann type No. 125, 25 m/m × 52 m/m × 15 m/m)	1	—	B.
20	15379	Bearing , ball, vertical shaft pinion housing (Hoff- mann type No. L.25N, 25 m/m × 52 m/m × 9 m/m)	1	—	B.
†	6A.1/1C	Bolt , for blanking plate (Section 28D/6998)	4	—	—
1550	13901/2	Bolt , securing, for fuel pump and drive gears	6	S. 2	C.
1552	15815B/1	Bolt , securing, for horizontal shaft and starter driving gears	4	S. 11	C.
1554	—	Box, Accessory, Bottom, Group consisting of :—	1	—	A.
	17415B/8	Box, accessory, bottom... ..	1	DTD. 281	
	A.16Y/EP	Nut, plain, for fuel pump and governor adaptors horizontal shaft, horizontal shaft rear bear- ing, vertical shaft pinion and oil pump drive housings, hydraulic pump, oil level and oil retaining covers and oil sump studs (Section 28M/756)	54	—	
	A.16Y/CP	Nut, plain, for horizontal drive oil jet, tach- ometer facing and cover plate studs (Section 28M/5316)	5		
	A.16Y/GP	Nut, plain, for starter stud (Section 28M/758)	8		
	AGS.885/E	Stud, for fuel pump adaptor (Section 28T/2917)	1	S. 1	
	N.828	Stud, for fuel pump adaptor (See Ref. No. 176)	1	S. 1	
	AGS.885/D	Stud, for governor and oil sump (Section 28T/2913)	20	—	
	AGS.884/B	Stud, for horizontal drive oil jet (Section 28T/2904)	2	—	
	N.827	Stud, for horizontal shaft housing (See Ref. No. 181)	6	S. 1	
	AGS.885/B	Stud, for horizontal shaft rear bearing, vertical shaft pinion housings and oil level and oil retaining covers (Section 28T/2905)	13	—	
	AGS.885/F	Stud, for hydraulic pump (Section 28T/2921)	6	—	
	AGS.885/C	Stud, for oil pump drive housings (Section 28T/2909)	3	—	
	AGS.886/D	Stud, for starter (Section 28T/2914)	8	—	
	AGS.884/D	Stud, for tachometer facing cover plate (Section 28T/2912)	3	—	

ACCESSORY BOX BOTTOM

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
Box, Accessory, Bottom, Group (cont'd)					
	15432	Stud, locating, for oil pump drive housing... (See Ref. No. 1644)	2	S. 1	
	AGS.194/3	Washer, lock, for horizontal shaft, horizontal shaft rear bearing, vertical shaft pinion and oil pump housings, oil level and oil retaining covers studs (Section 28L/703)	24	—	
	AGS.162/D	Washer, spring, for fuel pump and governor adaptor (Section 28W/3099)	8		
	AGS.162/C	Washer, spring, for horizontal drive cover and oil jet and tachometer facing cover plate (Section 28W/3098)	11	—	
	AGS.586/D	Washer, spring, for hydraulic pump and oil sump (Section 28W/6308)	22	—	
	AGS.162/E	Washer, spring, for starter (Section 28W/3100)	8	—	
1373	2903-7	Circlip , for vertical shaft pinion	1	DTD. 215	C.
1370	13655	Circlip , Seeger, for fuel pump and hydraulic pump drive housings	2	—	C.
1558	16983	Circlip , Seeger, for horizontal shaft rear bearing ...	1	—	C.
1560	13660/2	Collar , spacing, for hydraulic pump drive bearing...	1	S. 1	C.
1562	13657/2	Collar , spacing, for governor driving shaft ...	1	S. 1	C.
78	15380	Collar , spacing, for vertical shaft pinion bearings ...	1	S. 1	C.
1384	15370	Cover , for horizontal shaft housing	1	L. 3	B.
1568	15410/3	Cover, Oil Level, Group consisting of:—	1	—	B.
	17440	Cover	1	L. 16	
	17439/1	Tube	1	T. 9	
	17438	Vent	1	L. 3	
1570	17441	Cover , oil retaining	1	L. 3	B.
86	13547/1	Cover , retaining, for horizontal shaft front bearing	1	S. 3	B.
1390	N.2462	‡ Dowel , .010" oversize for oil sump	2	S. 1	C.
1392	N.2463	‡ Dowel , .020" oversize for oil sump		S. 1	C.
1574	19285/3	Drive, Fuel Pump and Governor, Group... consisting of:—	1	—	A.
	13901/2	Bolt, securing (See Ref. No. 1550)	6	S. 2	
	16580A/5	Gear, fuel pump driving	1	S. 2 or DTD. 519	
	A.16Y/CP	Nut, plain (Section 28M/5316)	6	—	
	13900/3	Shaft, governor driving	1	S. 11	

‡ Alternatives.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1576	—	Gears, Horizontal Shaft Driving and Starter, Group consisting of :—	1	—	A.
	15815B/1	Bolt, securing gears ... (See Ref. No. 1552)	4	S. 11	
	15813/6	Gear, driving, horizontal shaft ...	1	S. 28	
	19556A	Gear, starter ...	1	S. 82	
	A.16Y/GP	Nut, securing gears (Section 28M/758)	4	—	
	15814/1	Washer, adjusting, for gears ... (See Ref. No. 1664)	1	S. 3 or S. 1	
	AGS.194/4	Washer, lock, for securing nuts (Section 28L/704)	4	—	
1578	20387/3	Gear , driven, hydraulic pump ...	1	S. 11	A.
1580	15354/4	Gear , driven, oil pump ...	1	S. 11	A.
1582	13639/2	Gear , driving oil pump ...	1	S. 11	A.
1584	13651A/3	Housing , fuel pump drive ...	1	DTD. 281	B.
1586	13652/4	Housing , governor drive ...	1	DTD. 281	B.
1588	—	Housing, Horizontal Shaft, Group consisting of :—	1	—	B.
	15369/5	Housing ...	1	DTD. 281	
	A.16Y/EP	Nut, plain, for front bearing housing (Section 28M/756)	3	—	
	AGS.885/B	Stud, for front bearing housing (Section 28T/2905)	3	—	
	AGS.194/3	Washer, lock, for front bearing housing (Section 28L/703)	3	—	
108	13545/1	Housing , horizontal shaft front bearing ...	1	S. 6	B.
1592	16956	Housing , horizontal shaft rear bearing ...	1	S. 1	B.
1594	19758/3	Housing , hydraulic pump drive ...	1	DTD. 281	B.
1596	15350/5	Housing , oil pump driven gear ...	1	DTD. 281	B.
1598	15353/3	Housing , oil pump driving gear ...	1	DTD. 281	B.
1422	15377/2	Housing , vertical shaft pinion ...	1	S. 6	B.
1602	19664A/2	Jet, Oil, Horizontal Drive, Group consisting of :—	1	—	B.
	19657A	Adaptor ...	1	S. 1	
	15349/1	Flange ...	1	S. 1	
	20063/3	Nose (See Ref. No. 1612) ...	1	S. 1	
	19665A	Pipe jet ...	1	BSS., 886	
	N.1598	Washer, tab (See Ref. No. 1682)	1	B. 15	
1604	N.2581	Key , for fuel pump driving pinion ...	2	S. 24 or S. 69	C.
1606	N.2582	Key , for horizontal shaft driving gear ...	2	S. 24 or S. 69	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
1430	N.2580	Key, for oil pump driving bevel pinion	1	S. 24 or S. 69	C.
1612	20063/3	Nose, for horizontal shaft oil jet	1	S. 1	C.
1610	N.671	Nut, cap, for oil pump driven gear	1	S. 1	C.
142	N.742	Nut, locking, for vertical shaft pinion	1	S. 1	C.
†	A.16Y/EP	Nut, plain, for fuel pump and governor adaptors, horizontal shaft, horizontal shaft front and rear bearings, oil pump gear and vertical shaft pinion housings, hydraulic pump, oil level and oil retaining covers and oil sump studs (Section 28M/756)	57	—	—
†	A.16Y/CP	Nut, plain, for horizontal drive oil jet, horizontal shaft housing cover, tachometer facing cover plate studs and fuel pump and governor drive bolts (Section 28M/5316)	17	—	—
†	A.16Y/GP	Nut, plain, for horizontal shaft driving gear and starter studs (Section 28M/758)	12	—	—
1450	N.745	Nut, ring, for fuel pump driving shaft and driving pinion, governor driving shaft, horizontal driving shaft and hydraulic pump driven gear	5	S. 1	C.
†	A.16Y/CS	Nut, slotted, for blanking plate (Section 28M/767) ...	4	—	—
1064	N.2354	Pillar, for oil jet banjo	1	S. 2	C.
†	AGS.166/1B	Pin, split, for blanking plate nut (Section 28P/5211)	4	—	—
1620	16581A/3	Pinion, fuel pump driving	1	S. 82 or DTD. 519	A.
1622	13640/4	Pinion, oil pump drive	1	S. 11	A.
1458	19836/3	Pinion, vertical shaft	1	S. 82 or DTD. 519	A.
1626	17443A	Plate, blanking	1	L. 3	B.
1628	19864	Plate, cover, for tachometer facing	1	DTD. 281	B.
1630	N.2742	Plug, for oil pump drive bevel pinion	1	S. 1	C.
1632	16957/2	Retainer, horizontal shaft rear bearing	1	L. 1 or L. 40	B.
1470	N.1626	Screw, countersunk, for fuel pump and governor drive housing	4	S. 1	C.
1472	N.1621	Screw, countersunk, for hydraulic pump housing ...	2	S. 1	C.
1638	19803/1	Shaft, horizontal	1	S. 28	B.
176	N.828	Stud, for fuel pump adaptor	1	S. 1	C.
†	AGS.885/E	Stud, for fuel pump adaptor ... (Section 28T/2917)	3	—	—
†	AGS.885/D	Stud, for governor adaptor and oil sump ... (Section 28T/2913)	20	—	—
†	AGS.885/B	Stud, for front and rear horizontal shaft bearing, vertical shaft pinion housings, oil level and oil retaining covers (Section 28T/2905)	16	—	—
†	AGS.884/B	Stud, for horizontal drive oil jet ... (Section 28T/2904)	2	—	—
†	AGS.884/C	Stud, for horizontal shaft housing cover ... (Section 28T/2908)	6	—	—

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
181	N.827	... Stud, for horizontal shaft housing ...	6	S. 1	C.
†	AGS.885/F	Stud, for hydraulic pump (Section 28T/2921)	6	—	—
1644	15432	Stud, for locating oil pump drive housing	2	S. 1	C.
†	AGS.885/C	Stud, for oil pump gears housing (Section 28T/2909)	3	—	—
†	AGS.886/D	Stud, for starter (Section 28T/2914)...	8	—	—
†	AGS.884/D	Stud, for tachometer facing cover (Section 28T/2912)	3	—	—
1646	15414	Tube, distance, for fuel pump and governor stud	2	T. 26	C.
1648	15415/1	Tube, locating, for fuel pump and governor distance tube	4	T. 26 or S. 1	C.
1518	N.1145	Washer, for oil jet banjo	2	L. 16 or L. 17	C.
1650	N.1543	Washer, for oil pump drive bevel pinion retaining plug	1	S. 84	C.
1652	13656	Washer, adjusting, for fuel pump driving gear	2	S. 1	C.
1510	13565/2	Washer, adjusting, for fuel pump driving pinion	1	S. 1 or S. 3	C.
230	13552/1	Washer, adjusting, for horizontal shaft driving gear	1	S. 1 or S. 3	C.
1504	13564/3	Washer, adjusting, for horizontal shaft driving gear	1	S. 1 or S. 3	C.
1660	20386	Washer, adjusting, for hydraulic pump driven gear	1	S. 1	C.
1662	13644/2	Washer, adjusting, for oil pump drive bevel pinion	1	S. 1 or S. 3	C.
1664	15814/1	Washer, adjusting, for starter gear	1	S. 1 or S. 3	C.
1512	15378	Washer, adjusting, for vertical shaft pinion	1	S. 1 or S. 3	C.
1668	19865	Washer, for tachometer facing cover plate	1	Klingerit	C.
†	AGS.194/4	Washer, lock, for horizontal shaft driving gear bolts (Section 28L/704)	4	—	—
†	AGS.194/3	Washer, lock, for horizontal shaft, horizontal shaft front and rear bearing, oil pump gear housing, oil level cover, oil retaining cover nut and vertical shaft pinion housing locknut (Section 28L/703)	27	—	—
1670	N.1599	Washer, lock, for oil pump driven gear cap nut	1	S. 84	C.
1672	N.1092	Washer, plain, for oil pump driven gear cap nut	1	S. 1	C.
1528	N.1190	Washer, plain, for vertical shaft pinion locknut	1	S. 84	C.
†	AGS.162/D	Washer, spring, for fuel pump and governor adaptor nut (Section 28W/3099)	8	—	—
†	AGS.162/C	Washer, spring, for horizontal drive oil jet, horizontal shaft housing and tachometer facing cover nut (Section 28W/3098)	11	—	—
†	AGS.586/D	Washer, spring, for hydraulic pump and oil sump nut (Section 28W/6308)	22	—	—

ACCESSORY BOX BOTTOM

Ref No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
†	AGS.162/E	Washer, spring, for starter nut (Section 28W/3100)	8	—	—
1532	N.2830	Washer, tab, for fuel pump and governor driving shaft, horizontal shaft and hydraulic pump driving gear ring nuts	4	S. 84	C.
1534	N.2831	Washer, tab, for fuel pump driving pinion ring nut	1	S. 84	C.
236	N.2838	Washer, tab, for vertical shaft pinion locknut	1	S. 84	C.
1682	N.1598	Washer, tab, for horizontal shaft oil jet nose	1	B. 15	C.
244	N.1102	Washer, plain, for vertical shaft bearing	1	S. 84	C.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
CENTRE CASING ASSEMBLY. complete as follows :—					
†	A.15Y/1G	Bolt , for supporting cylinder ... (Section 28D/7478)	32	—	—
1690	16101/1	Bolt , eye, for nozzle shroud strut ...	16	Jessop's R. 15	C.
1692	21178/1	Cone, Centre Casing, Group ... consisting of :—	1	—	A.
	13938	Block, support, for cooling pipe clip ...	2	S. 1	
	20002/5	Cone ...	1	F.D.P.	
	17138/3	Flange, large ...	1	F.D.P.	
	17137/1	Flange, small ...	1	F.D.P.	
	A.16Z/EP	Nut, plain, for anchor plates ...	6	—	
	20737	Plate, anchor, for cabin air supply and rear bearing oil feed pipes clip ...	6	S. 84	
	20053	Plate, anchor for supporting cylinder bolts ...	32 sets		
	AGS.500-F-21	Rivet, for anchor plates ...	76	—	
	AGS.500-F-25	Rivet, for cooling pipe support block clip ...	4	—	
	AGS.500-J-25	Rivet, for cooling pipe support block clip ...	4	—	
1694	17072A/6	Cylinder, Supporting, Group ... consisting of :—	1	—	B.
	16098A/1	Bracket, for nozzle shroud strut ...	32	DTD. 171A	
	15768/2	Cylinder, supporting ...	1	DTD. 171A	
	16097A	Hoop, stiffening ...	1	DTD. 171A	
	15649/3	Plate, rear ...	1	DTD. 171B or F.D.P.	
	AS.456/505	Rivet, for nozzle shroud strut bracket ...	64	—	
1696	15769	Flange , front, for supporting cylinder ...	1	DTD. 171A	B.
†	A.16Z/JP	Nut , plain, for nozzle shroud strut eye bolt... (Section 28M/7156)	16	—	—
†	4SPZ/E4	Pin , shackle, for nozzle shroud strut ... (Section 28P/6176)	32	—	—
†	AGS.784/10	Pin , split, for nozzle shroud strut shackle ... (Section 28P/5037)	32	—	—
†	AS.456/404	Rivet , for supporting cylinder front flange (Section 28Q/7250)	12	—	—
1698	N.1143	Shim , for nozzle shroud strut eye bolt ...	As reqd. Nominal 5	Inconel	C.
1700	16099	Strut , for nozzle shroud ...	16	F.D.P.	C.
†	AGS.160/E	Washer , plain, for supporting cylinder bolts (Section 28W/3083)	32	—	—

GENERATOR DRIVE COUPLING

95

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
GENERATOR DRIVE COUPLING, ASSEMBLY. complete as follows :—					
1724	13706	Shaft, driving, for generator	1	S. 11	B.

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
TRANSPORTATION PARTS. complete as follows :—					
1900	N.118	Bolt , for securing trunnion mounting and lifting ring	22	S. 1	B.
1902	20620	Cover , blanking, for air intake	2	Coml. Alum.	B.
1904	19138/3	Cover , blanking, for tachometer	1	DTD. 281	B.
1380	17087/2	Cover , blanking, for generator face	1	DTD. 59A	B.
1906	17135	Cover , blanking, for hydraulic pump face	1	DTD. 59A	B.
1908	17133	Cover , blanking, for vacuum pump and compressor faces	2	DTD. 59A	B.
134	N.663	Nut , cap, for blanking combined drain hydraulic pump connection	1	S. 1	C.
1909	N.664	Nut , cap, for blanking vacuum pump and compressor feed banjos	2	S. 1	C.
†	810-3D/3	Nut , union, for blanking combined drain outlet (Section 36FF/6314)	1	S. 1	—
1910	17477A	Plate , support, for packing case	1	M.S.	B.
1912	20638	Plug , for blanking Igniter plug boss	2	M.S.	B.
1914	16889A/1	Ring , lifting	1	M.S.	B.
1916	19529/3	Trunnion, Mounting, Group	3	—	B.
		consisting of :—			
	19528/2	Flange	1	M.S.	
	19527	Hub	1	M.S.	
†	AGS.162/E	Washer , spring, for lifting ring and trunnion mount- int (Section 28W/3100)	22	—	—

FUEL SYSTEM ACCUMULATOR AND BAROSTAT. (ROYAL AIR FORCE SECTION 36LL)

99

Ref. No.	Part No.	Nomenclature	No. off	Material Specification	Cl. of St.
ACCUMULATOR AND BAROSTAT ASSEMBLY. (1 Assembly per Engine). complete as follows :—					
500	W.7084/1	Accumulator, type A.2	1	—	A.
503	Z.7074/26	Adaptor, for accumulator	1	—	C.
509	Y.7070/180	Adaptor, for barostat drain to atmosphere ...	1	—	C.
513	Z.7070/56A	Adaptor, for barostat inlet inlet connection ...	1	—	C.
515	Y.7070/179	Adaptor, for barostat return to tank connection	1	—	C.
511	Y.7070/178	Banjo, for barostat	1	—	C.
516	Y.7070/176	Banjo, for barostat return to tank connection ...	1	—	C.
501	Y.7070/194	Barostat, type ACU/M.15	1	—	A.
31	Z.7068/176	Cap, dust, for barostat inlet connection	1	—	C.
518	Z.7070/175	Cap, dust, for barostat return to tank connection	1	—	C.
512	Z.7067/45	Cap, protection, for barostat drain to atmosphere	1	—	C.
519	Z.15335/500	Stud, in barostat body	4	—	C.
504	Z.5339/556	Washer, joint, for accumulator	1	—	C.
510	Z.15339/808	Washer, joint, for barostat drain to atmosphere ...	2	—	C.
514	Y.15339/527A	Washer, joint, for barostat inlet connection ...	1	—	C.
517	Z.15339/809	Washer, joint, for barostat return to tank connection	2	—	C.



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