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Codes : ABC 4th, 5th and 6th editions, Engineering, Bentley's Complete Phrase,
Bentley's Second Phrase, Western Union.

SPARE PARTS CATALOGUE FOR THE

GARDNER

COMPRESSION IGNITION OIL ENGINE

TYPE L3

ENGINE NO. G23 / 123256 CODE WORD OF THE ENGINE REUCKORAN

HAND OF ENGINE SENSE OF ROTATION i.e. Looking on Flywheel End

POWER B.H.P. AT REVS. PER MINUTE. DATE 13 JAN 1960

London Office and Export Department : ABFORD HOUSE, WILTON ROAD, S.W.1.

Telegrams : "Nornodeste Sowest London" Telephone : TATe Gallery 3315-6

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SCOTTISH BRANCH

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INTRODUCTION.

Abbreviations used in the Text :—P=Port Engine. S=Starboard Engine.

For diagrammatic arrangement showing handing of engines see Plate No. 5.

IN order to obtain to its fullest advantage the excellent service offered by the Gardner Service Department, it is necessary to observe the following simple instructions. If these instructions be correctly carried out, errors and consequent delay will be avoided.

ALWAYS QUOTE :—

(1) The number of the part.

(2) The Serial number and the code word of the engine.

It is not necessary to give a description of the part.

The Serial number of the engine is stamped on the top of the crankcase alongside No. 1 cylinder, on the motion work side.

The code word of the engine will be found on page 1 of this catalogue.

The cylinder nearest to the chain case is No. 1 cylinder ; see also Plates Nos. 1, 2, 3 and 4.

HOW TO ORDER A SPARE PART.

If you require a spare part for your engine, this is the way to order it. Turn to the index to the Plates, and to the Key Plates Nos. 1, 2, 3 and 4, which will show you the general location of the part which you require, and to Plate No. 5 to ascertain the hand of the engine. Now turn to the Plate indicated, identify the part by the illustration, alongside which is the sectional Part Number, next refer to the pages quoted at the bottom of the Plate ; verify this number with the description given in the text. Do not quote any other number appearing on the engine. You have now all the necessary information to enable you to order. Here is an example of the way to do it :—

Example :—

Your engine, we will suppose, is a 4L3 Stationary, number 79438, the code word is ELKERSH and you require some packings for the 1½ in.-12 Thds. Plug fitted in the Cylinder Head, Part No. 1/26. Your telegram should then be composed in the following way :—

“ Theorem Patricroft Eccles

Send twelve 1/26 ELKERSH 79438—SMITH 47 High Street Portsmouth ”

Translated, this would read :—

“ Norris, Henty & Gardners Ltd., Patricroft, Eccles.

Send as soon as possible, twelve packings for Plug 1½ in.-12 Thds. fitted in Cylinder Head, for my 4L3 Stationary Engine number 79438—SMITH, 47, High Street, Portsmouth.”

NOTE.—Do not omit the stroke from the section number of the part. This stroke, or solidus as it is called, is transmissible by telegram and is counted the same as one of the figures or digits.



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CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Part No.	Description	Plate No.	Part No.	Description	
1/1	Cylinder—2 Block, fitted with 1/8 to 1/15, 1/17, 1/20 to 1/23, 1/199, 1/203, 1/204	4L3 { P. Cylinders Nos. 3 & 4 { S. " " " 1 & 2 5L3 P. " " " 4 & 5 7L3 { P. " " " 6 & 7 { S. " " " 1 & 2 8L3 { P. " " " 7 & 8 { S. " " " 1 & 2	6	1/13	Water Joint Ring, Cylinder to Cylinder Head (same as 21/24)
			1/14	Cylinder Water Connection Tube (same as 21/25)	
			1/15	Oil Joint Ring, Cylinder to Cylinder Head (same as 21/26)	
			1/2	Cylinder—2 Block, fitted with 1/8 to 1/15, 1/17, 1/20 to 1/23, 1/199, 1/203, 1/204	4L3 { P. " " " 1 & 2 { S. " " " 3 & 4 5L3 S. " " " 4 & 5 7L3 { P. " " " 1 & 2 { S. " " " 6 & 7 8L3 { P. " " " 1 & 2 { S. " " " 7 & 8
1/17	Packing, Oval, 2" centres × 1 7/8" wide				
1/18	Setscrew, Countersunk Head, 3/8" Wh. × 7/8" long				
1/19	Setscrew, Hex. Head, 3/8" Wh. × 1 1/4" long × 5/16" Hex. 3L3				
1/4	Cylinder—3 Block, fitted with 1/8 to 1/15, 1/17, 1/22, 1/23, 1/200, 1/203, 1/204	3L3 P. & S.	1/20	Stud, 3/8" Wh. × 2 1/4" long, fitted with 1/21	
1/5	Cylinder—3 Block, fitted with 1/8 to 1/15, 1/17, 1/20 to 1/23, 1/200, 1/203, 1/204	5L3 S. Cylinders Nos. 1, 2 & 3 6L3 { P. " " " 4, 5 & 6 { S. " " " 1, 2 & 3	1/21	Nut, Steel, 3/8" Wh. × 3/8" × 5/16" Hex. } 4L3, 5L3, 6L3, 7L3, 8L3	
			1/22	Stud, 1/4" Wh. × 7/8" long, fitted with 1/23	
1/6	Cylinder—3 Block, fitted with 1/8 to 1/15, 1/17, 1/20 to 1/23, 1/200, 1/203, 1/204	5L3 P. " " " 1, 2 & 3 6L3 { P. " " " 1, 2 & 3 { S. " " " 4, 5 & 6	1/23	Nut, Steel, 1/4" Wh. × 1/4" × 3/16" Hex.	
			1/7	Cylinder—3 Block, fitted with 1/8 to 1/15, 1/17, 1/20 to 1/23, 1/200, 1/203, 1/204	7L3 P. & S., " 3, 4 & 5
1/25	Plug, Sq. Hole, 1 1/2"—12 Thds., fitted with 1/26				
1/26	Packing, Circular, 1 7/8" × 1 7/16" × 1/32"				
1/27	Stud, 5/16" Wh. × 2 13/16" long, fitted with 1/28				
1/9	Liner Joint Ring		1/28	Nut, Steel, 5/16" Wh. × 5/16" × 1/4" Hex.	
1/10	Cylinder Head Stud—with Pap, 3/4" B.S.F. × 11 1/2" long, fitted with 1/12		1/29	Inlet and Exhaust Manifolds Stud, fitted with 1/30	
1/11	Cylinder Head Stud, 3/4" B.S.F. × 7 1/2" long, fitted with 1/12		1/30	Nut, Steel, 5/8" Wh. × 5/8" × 1/2" Hex.	
1/12	Nut, Steel, 3/4" B.S.F. × 3/4" × 5/8" Hex.				

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Plate No.	Part No.	Description	Plate No.	Part No.	Description
7	1/31	Stud, $\frac{3}{8}$ " Wh. $\times 3\frac{1}{4}$ " long, fitted with 1/32	7	1/48	Nut, Steel, $\frac{5}{16}$ " B.S.F. $\times \frac{1}{4}$ " $\times \frac{3}{16}$ " Hex.
	1/32	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{5}{16}$ " Hex.		1/49	Exhaust Valve Lever
	1/33	Packing, Oval, 2" centres $\times 2\frac{1}{8}$ " wide		1/50	Valve Lever Adjuster, fitted with 1/51
	1/34	Exhaust Valve Guide		1/51	Nut, Steel, $\frac{7}{16}$ " B.S.F. $\times \frac{3}{8}$ " $\times \frac{3}{8}$ " Hex.
	1/35	Sprayer Clamp Plate		1/52	Valve Levers Spacing Spring
	1/36	Inlet and Exhaust Manifolds Clamp		1/53	Plug, Hex. Head, $\frac{3}{4}$ " B.S.F. $\times \frac{13}{32}$ " $\times \frac{1}{2}$ " Hex., fitted with 1/54
	1/37	Inlet Valve, fitted with 1/41		1/54	Packing, Circular, 1" $\times \frac{11}{16}$ " $\times \frac{1}{32}$ "
	1/38	Exhaust Valve, fitted with 1/41		1/55	Cylinder Head Door, fitted with 1/56
	1/39	Inlet Valve Collar		1/56	Cylinder Head Door Packing
	1/40	Exhaust Valve Collar		1/57	Setscrew, Countersunk Head, $\frac{1}{4}$ " Wh. $\times \frac{3}{8}$ " long
	1/41	Split Pin, $\frac{5}{32}$ " diam. $\times 1\frac{1}{4}$ " long		1/58	Plug, Hex. Head, $\frac{7}{16}$ "—24 Thds. $\times \frac{9}{16}$ " $\times \frac{1}{4}$ " Hex.
	1/42	Inlet and Exhaust Valves Spring—Inner, supplied only with 1/43 (same as 21/29)		1/59	Cylinder Head Cover
	1/43	Inlet and Exhaust Valves Spring—Outer, supplied only with 1/42 (same as 21/30)		1/60	Cylinder Head Cover Screw
	1/44	Valve Levers Shaft		1/61	SPRAYER ASSEMBLY, Comprising 1/62 to 1/64, 1/66 to 1/70, 1/221, 1/222
	1/45	Setscrew, Sq. Head, Pointed, O B.A. $\times \frac{13}{32}$ " long		1/62	Sprayer Body } Replacement of these two items can be supplied only in the form of a complete Sprayer Assembly Part No. 1/61
	1/46	Inlet Valve Lever		1/63	
	1/47	Setscrew, Headless, $\frac{5}{16}$ " B.S.F. $\times 1\frac{1}{4}$ " long, fitted with 1/48 (Superseded by 1/225, which will be supplied for replacements)		1/64	Sprayer Valve Spring Collar
				1/65	Sprayer Valve Spring—60 lb. (Superseded by Part No. 1/221 and 1/222, which will be supplied for replacements.)

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Part No.	Description	Plate No.	Part No.	Description
1/66	Sprayer Valve Stop	7	1/84	Compression Relief Quadrant Bracket Stud, fitted with 1/85, 1/86
1/67	Sprayer Nozzle		1/85	Nut, Steel, $\frac{5}{16}$ " B.S.F. $\times \frac{1}{4}$ " $\times \frac{1}{4}$ " Hex.
1/68	Sprayer Nozzle Cap		1/86	Spring Washer, $\frac{5}{16}$ " diam.
1/69	Sprayer Filter Washer		1/87	Compression Relief Shaft, fitted with 1/91 3L3, 4L3
1/70	Sprayer Delivery Union Stock		1/88	Compression Relief Shaft, fitted with 1/91 5L3, 6L3
1/71	Pressure Gauge, fitted with 1/72, 1/73		1/89	Compression Relief Shaft, fitted with 1/91 7L3, 8L3
1/72	Packing, Circular, $\frac{5}{16}$ " $\times \frac{1}{8}$ " $\times \frac{1}{16}$ "		1/90	Washer, Steel, 1" $\times \frac{9}{16}$ " $\times \frac{3}{32}$ "
1/73	Locknut, Brass, $\frac{1}{8}$ " Gas $\times \frac{1}{8}$ " $\times \frac{1}{4}$ " Hex.		1/91	Split Pin, $\frac{3}{32}$ " diam. $\times 1$ " long
1/74	Pressure Gauge Mount, fitted with 1/72, 1/211		1/92	Compression Relief Quadrant, fitted with 1/93
1/75	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times \frac{3}{4}$ " long		1/93	Setscrew, Sq. Head, Pointed, O B.A. $\times \frac{11}{32}$ " long
1/76	Compression Relief Cam—Type 1, supplied only with (21/73 at net price) (Superseded by 1/224, which will be supplied for replacements)		1/94	Compression Relief Lever—Remote Control, fitted with 1/95
1/77	Compression Relief Lever—Local Control, supplied only with (21/73 at net price)		1/95	Bolt, Hex. Head, $\frac{1}{4}$ "—28 Thds. $\times 1$ " long $\times \frac{3}{16}$ " Hex.
1/78	Taper Pin, No. 2 $\times 1\frac{3}{8}$ " long		1/96	Forked Eye, fitted with 1/97, 1/98
1/79	Ball, $\frac{3}{16}$ " diam.		1/97	Pin, Headed, $\frac{1}{4}$ " diam. $\times \frac{5}{8}$ " long, fitted with 1/98
1/80	Compression Relief Ball Spring	1/98	Split Pin, $\frac{5}{16}$ " diam. $\times \frac{1}{2}$ " long	
1/81	Compression Relief Gear, fitted with 1/78, supplied only with (21/73 at net price)	8	1/99	COMPRESSED AIR CONTROL VALVE BOX AND SERVICE TEE ASSEMBLY, Comprising 1/100 Port or 1/101 Starboard, 1/102 to 1/105, 1/108 to 1/118, 19/23
1/82	Compression Relief Quadrant Bracket, fitted with 1/83		1/100	Compressed Air Control Valve Box—Port Engine, fitted with 1/107, 1/116, 19/23
1/83	Steady Peg, $\frac{3}{16}$ " diam. $\times \frac{11}{16}$ " long			

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CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Plate No.	Part No.	Description	Plate No.	Part No.	Description
8	1/101	Compressed Air Control Valve Box—Starboard Engine, fitted with 1/107, 1/116, 19/23	8	1/118	Packing, Oval, $1\frac{1}{8}$ " centres \times $1\frac{1}{2}$ " wide
	1/102	Compressed Air Control Valve, fitted with 1/104, 1/105		1/119	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $\frac{7}{8}$ " long \times $\frac{5}{16}$ " Hex.
	1/103	Compressed Air Control Valve Spring		1/120	Flange, Oval, Brass, $\frac{3}{4}$ " bore \times $1\frac{1}{2}$ " centres \times $1\frac{1}{2}$ " wide, fitted with 1/117
	1/104	Compressed Air Control Valve Collar, fitted with 1/105		1/121	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times 1" long \times $\frac{5}{16}$ " Hex.
	1/105	Split Pin, $\frac{5}{8}$ " diam. \times $\frac{7}{8}$ " long		1/122	Compressed Air Control Valve Bracket—Port Engine, fitted with 1/107, 1/124
	1/106	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $\frac{7}{8}$ " long \times $\frac{5}{16}$ " Hex.		1/123	Compressed Air Control Valve Bracket—Starboard Engine, fitted with 1/107
	1/107	Steady Peg, $\frac{1}{4}$ " diam. \times $\frac{15}{32}$ " long		1/124	Compressed Air Starting Hand Lever Stop
	1/108	Compressed Air Service Tee, fitted with 1/109 to 1/114, 1/116 to 1/118		1/125	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $\frac{7}{8}$ " long \times $\frac{5}{16}$ " Hex.—Port Engine
	1/109	Compressed Air Control Valve Locking Screw, fitted with 1/111		1/126	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $\frac{7}{8}$ " long \times $\frac{3}{8}$ " Hex.—Starboard Engine
	1/110	Compressed Air Control Valve Wheel		1/127	COMPRESSED AIR CHARGING VALVE BOX ASSEMBLY, Compr 1/128 to 1/139, 1/141
	1/111	Nut, Steel, $\frac{1}{4}$ " Wh. \times $\frac{1}{4}$ " \times $\frac{1}{4}$ " Hex.		1/128	Compressed Air Charging Valve Box, fitted with 1/129 to 1/134, 1/139, 1/141
	1/112	Compressed Air Control Valve Gland		1/129	Compressed Air Charging Valve Guide Stud, fitted with 1/130
	1/113	Packing, Cork (1 Set)		1/130	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{1}{4}$ " Hex.
	1/114	Nut, Steel, $\frac{5}{8}$ "—20 Thds. \times $\frac{3}{16}$ " \times $\frac{1}{2}$ " Hex.		1/131	Compressed Air Charging Valve Guide, fitted with 1/132 to 1/134
	1/115	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. \times 1" long \times $\frac{5}{16}$ " Hex.		1/132	Gland Packing (1 length)
	1/116	Packing, Oval, Copper and Asbestos, $1\frac{3}{4}$ " centres \times $1\frac{1}{2}$ " wide		1/133	Compressed Air Charging Valve Gland, fitted with 1/134
	1/117	Packing, Oval, $1\frac{1}{2}$ " centres \times $1\frac{1}{2}$ " wide		1/134	Compressed Air Charging Valve Gland Locknut

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CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Part No.	Description	Plate No.	Part No.	Description
1/135	Compressed Air Charging Valve	9	1/152	Compressed Air Starting Valve Collar
1/136	Compressed Air Charging Valve Spring		1/153	Split Pin, $\frac{3}{32}$ " diam. \times 1" long
1/137	Compressed Air Charging Valve Stop		1/154	Compressed Air Starting Valve Spring (same as 21/31)
1/138	Compressed Air Charging Valve Locking Screw		1/155	Packing, Oval, $1\frac{3}{8}$ " centres \times $1\frac{1}{8}$ " wide
1/139	Packing, Oval, $1\frac{1}{2}$ " centres \times $1\frac{1}{2}$ " wide		1/156	Bolt, Hex. Head, $\frac{5}{16}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{1}{4}$ " Hex., fitted with 1/157
1/140	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $\frac{15}{16}$ " long \times $\frac{1}{4}$ " Hex.		1/157	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{1}{4}$ " Hex.
1/141	Packing, Oval, Copper and Asbestos, $1\frac{3}{8}$ " centres \times $1\frac{1}{2}$ " wide		1/158	Stud, $\frac{3}{8}$ " Wh. \times 2" long, fitted with 1/159
1/142	Stud, $\frac{3}{8}$ " Wh. \times $3\frac{1}{16}$ " long, fitted with 1/143		1/159	Compressed Air Starting Valve Box Nut
1/143	Nut, Steel, $\frac{3}{8}$ " Wh. \times $\frac{3}{8}$ " \times $\frac{5}{16}$ " Hex.		1/160	Flange, Oval, Cast Iron, Blank, $1\frac{3}{4}$ " centres \times $1\frac{1}{2}$ " wide
1/144	COMPRESSED AIR STARTING VALVE BOX ASSEMBLY, Comprising 1/141, 1/145 to 1/155		1/161	Cylinder Head Safety Valve Flange
1/145	Compressed Air Starting Valve Box, fitted with 1/141, 1/155		1/162	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{1}{4}$ " long \times $\frac{5}{16}$ " Hex.
1/146	Pin, Headed, $\frac{3}{8}$ " diam. \times $1\frac{5}{16}$ " long, fitted with 1/147		1/163	CYLINDER HEAD SAFETY VALVE ASSEMBLY, Comprising 1/164 to 1/171
1/147	Split Pin, $\frac{3}{32}$ " diam. \times 1" long		1/164	Cylinder Head Safety Valve Body, fitted with 1/165, 1/169
1/148	Compressed Air Starting Valve Lever		1/165	Ball Valve, $\frac{1}{4}$ " diam.
1/149	Compressed Air Starting Valve Striker, fitted with 1/150		1/166	Cylinder Head Safety Valve Guide, fitted with 1/165
1/150	Nut, Steel, $\frac{1}{4}$ " B.S.F. \times $\frac{1}{4}$ " \times $\frac{3}{16}$ " Hex.		1/167	Cylinder Head Safety Valve Spring
1/151	Compressed Air Starting Valve, fitted with 1/153		1/168	Cylinder Head Safety Valve Spring Centre (1 pair)
			1/169	Cylinder Head Safety Valve Spring Cap, fitted with 1/164, 1/165

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Plate No.	Part No.	Description	Plate No.	Part No.	Description	
9	1/170	Cylinder Head Safety Valve Adjusting Screw, fitted with 1/171	9	1/185	Compressed Air Starting Spindle Link, $6\frac{25}{32}$ " long	
	1/171	Nut, Steel, $\frac{5}{16}$ " B.S.F. $\times \frac{1}{4}$ " $\times \frac{1}{4}$ " Hex.		1/186	Compressed Air Starting Spindle Link, $14\frac{5}{32}$ " long	
	1/172	Compressed Air Starting Lever Push Rod		1/187	Compressed Air Starting Spindle Link, $15\frac{25}{32}$ " long	
	1/173	Compressed Air Starting Valve Tappet		1/188	Compressed Air Starting Spindle Link, $24\frac{1}{32}$ " long	
	1/174	Compressed Air Starting Valve Tappet Guide		1/189	Compressed Air Starting Spindle Link, $24\frac{25}{32}$ " long	
	1/175	Compressed Air Starting Valve Tappet Lever		1/190	Split Pin, $\frac{1}{8}$ " diam. $\times \frac{7}{8}$ " long	
	1/176	Compressed Air Starting Valve Tappet Lever Spindle, fitted with 1/190		10	1/191	Cylinder Tappet Cover—2 Block, fitted with 1/174, 1/178, 1/182, 1/198, 1/199
	1/177	Compressed Air Starting Valve Tappet Lever Spindle, fitted with 1/190		1/192	Cylinder Tappet Cover—2 Block, fitted with 1/174, 1/178, 1/198, 1/199	
	1/178	Compressed Air Starting Valve Tappet Lever Spindle Bush		1/193	Cylinder Tappet Cover—2 Block, fitted with 1/174, 1/178, 1/182, 1/198, 1/199 and (1/202 for Starboard Engines only)	
	1/179	Compressed Air Starting Hand Lever—Port, fitted with 1/181		1/194	Cylinder Tappet Cover, Plain—2 Block, fitted with 1/199	
	1/180	Compressed Air Starting Hand Lever—Starboard, fitted with 1/181		1/195	Cylinder Tappet Cover—3 Block, fitted with 1/174, 1/178, 1/182, 1/198, 1/200	
	1/181	Setscrew, Sq. Head, Pointed, O. B.A. $\times \frac{13}{32}$ " long		1/196	Cylinder Tappet Cover—3 Block, fitted with 1/174, 1/178, 1/182, 1/198, 1/200	
	1/182	Compressed Air Hand Lever Stop—Starboard		1/197	Cylinder Tappet Cover, Plain—3 Block, fitted with 1/200	
	1/183	Compressed Air Starting Spindle Link, $5\frac{5}{32}$ " long		1/198	Steady Peg, $\frac{1}{4}$ " diam. $\times \frac{5}{8}$ " long	
	1/184	Compressed Air Starting Spindle Link, $5\frac{29}{32}$ " long				

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CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Part No.	Description	Plate No.	Part No.	Description																					
1/199	Cylinder Tappet Cover Packing—2 Block	7	1/213	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control; prepared for, but not fitted with Compressed Air Starting Details; and fitted with Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/70, 1/77 to 1/80, 1/141, 1/158, 1/223 to 1/225, 1/231, 1/232, 14/41 <table style="float: right; border: none;"> <tr><td>3L3</td><td>P.</td><td>Cylinders Nos. 1 & 2</td></tr> <tr><td>3L3</td><td>S.</td><td>" " 2 & 3</td></tr> <tr><td>4L3</td><td>P. & S.</td><td>" " 1 & 4</td></tr> <tr><td>5L3</td><td>P.</td><td>" " 1, 2 & 5</td></tr> <tr><td>5L3</td><td>S.</td><td>" " 2, 3 & 5</td></tr> <tr><td>6L3</td><td>P. & S.</td><td>" " 4, 5 & 6</td></tr> <tr><td>8L3</td><td>P. & S.</td><td>" " 3, 4, 5 & 6</td></tr> </table>	3L3	P.	Cylinders Nos. 1 & 2	3L3	S.	" " 2 & 3	4L3	P. & S.	" " 1 & 4	5L3	P.	" " 1, 2 & 5	5L3	S.	" " 2, 3 & 5	6L3	P. & S.	" " 4, 5 & 6	8L3	P. & S.	" " 3, 4, 5 & 6
3L3	P.				Cylinders Nos. 1 & 2																				
3L3	S.				" " 2 & 3																				
4L3	P. & S.				" " 1 & 4																				
5L3	P.				" " 1, 2 & 5																				
5L3	S.				" " 2, 3 & 5																				
6L3	P. & S.				" " 4, 5 & 6																				
8L3	P. & S.				" " 3, 4, 5 & 6																				
1/200	Cylinder Tappet Cover Packing—3 Block																								
1/201	Compressed Air Starting Valve Tappet Lever Spindle, fitted with 1/190				8L3 Starboard only																				
1/202	Plug, Faced, $\frac{5}{8}$ "—14 Thds. $\times \frac{13}{32}$ " $\times \frac{5}{16}$ " Hex.	8L3 Starboard only																							
1/203	Stud, $\frac{3}{8}$ " Wh. $\times 1\frac{1}{4}$ " long, fitted with 1/204																								
1/204	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{3}{8}$ " Hex.																								
1/205	Inlet Valve, fitted with 1/39, 1/41																								
1/206	Exhaust Valve, fitted with 1/40, 1/41																								
1/207	Flange, Oval, Cast Iron, $\frac{1}{2}$ " Gas $\times 2$ " centres $\times 1\frac{7}{8}$ " wide, fitted with 1/17, 1/208	3L3 Engines with Water Pipes, Types A, B & D	1/214	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control; prepared for, but not fitted with Compressed Air Starting Details; and fitted with Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/70, 1/77 to 1/80, 1/141, 1/160 or 1/161, 1/162, 1/223 to 1/225, 1/231, 1/232, 14/41 <table style="float: right; border: none;"> <tr><td>3L3</td><td>P. & S.</td><td>None</td></tr> <tr><td>4L3</td><td>P. & S.</td><td>Cylinder No. 2</td></tr> <tr><td>5L3</td><td>P.</td><td>" " 3</td></tr> <tr><td>5L3</td><td>S.</td><td>" " 1</td></tr> <tr><td>6L3</td><td>P. & S.</td><td>Cylinders Nos. 1 & 2</td></tr> <tr><td>8L3</td><td>P. & S.</td><td>" " 1, 2 & 8</td></tr> </table>	3L3	P. & S.	None	4L3	P. & S.	Cylinder No. 2	5L3	P.	" " 3	5L3	S.	" " 1	6L3	P. & S.	Cylinders Nos. 1 & 2	8L3	P. & S.	" " 1, 2 & 8			
3L3	P. & S.				None																				
4L3	P. & S.				Cylinder No. 2																				
5L3	P.				" " 3																				
5L3	S.	" " 1																							
6L3	P. & S.	Cylinders Nos. 1 & 2																							
8L3	P. & S.	" " 1, 2 & 8																							
1/208	Packing, Circular, $1\frac{1}{16}$ " $\times \frac{3}{4}$ " $\times \frac{1}{32}$ "																								
1/209	Hose Cock, $\frac{1}{2}$ " Gas, fitted with 1/208																								
1/210	Not allocated																								
1/211	Plug, Hex. Head, $\frac{7}{16}$ "—24 Thds. $\times \frac{9}{16}$ " $\times \frac{1}{4}$ " Hex.	1/215	1/216	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control; prepared for, but not fitted with Compressed Air Starting Details; and without Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/60, 1/77 to 1/80, 1/141, 1/142, 1/223 to 1/225, 1/231, 1/232, 14/41 <table style="float: right; border: none;"> <tr><td>3L3</td><td>P.</td><td>Cylinder No. 3</td></tr> <tr><td>3L3</td><td>S.</td><td>" " 1</td></tr> <tr><td>4L3</td><td>P. & S.</td><td>" " 3</td></tr> <tr><td>5L3</td><td>P. & S.</td><td>" " 4</td></tr> <tr><td>6L3</td><td>P. & S.</td><td>" " 3</td></tr> <tr><td>8L3</td><td>P. & S.</td><td>" " 7</td></tr> </table>	3L3	P.	Cylinder No. 3	3L3	S.	" " 1	4L3	P. & S.	" " 3	5L3	P. & S.	" " 4	6L3	P. & S.	" " 3	8L3	P. & S.	" " 7			
3L3	P.				Cylinder No. 3																				
3L3	S.				" " 1																				
4L3	P. & S.	" " 3																							
5L3	P. & S.	" " 4																							
6L3	P. & S.	" " 3																							
8L3	P. & S.	" " 7																							
1/212	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control; prepared for, but not fitted with Compressed Air Starting Details; and fitted with Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/70, 1/77 to 1/80, 1/141, 1/142, 1/223 to 1/225, 1/231, 1/232, 14/41	3L3 P. Cylinder No. 3 3L3 S. " " 1 4L3 P. & S. " " 3 5L3 P. & S. " " 4 6L3 P. & S. " " 3 8L3 P. & S. " " 7	1/217	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control; prepared for, but not fitted with Compressed Air Starting Details; and without Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/60, 1/77 to 1/80, 1/141, 1/158, 1/223 to 1/225, 1/231, 1/232, 14/41 <table style="float: right; border: none;"> <tr><td>3L3</td><td>P.</td><td>Cylinders Nos. 1 & 2</td></tr> <tr><td>3L3</td><td>S.</td><td>" " 2 & 3</td></tr> <tr><td>4L3</td><td>P. & S.</td><td>" " 1 & 4</td></tr> <tr><td>5L3</td><td>P.</td><td>" " 1, 2 & 5</td></tr> <tr><td>5L3</td><td>S.</td><td>" " 2, 3 & 5</td></tr> <tr><td>6L3</td><td>P. & S.</td><td>" " 4, 5 & 6</td></tr> <tr><td>8L3</td><td>P. & S.</td><td>" " 3, 4, 5 & 6</td></tr> </table>	3L3	P.	Cylinders Nos. 1 & 2	3L3	S.	" " 2 & 3	4L3	P. & S.	" " 1 & 4	5L3	P.	" " 1, 2 & 5	5L3	S.	" " 2, 3 & 5	6L3	P. & S.	" " 4, 5 & 6	8L3	P. & S.	" " 3, 4, 5 & 6
3L3	P.	Cylinders Nos. 1 & 2																							
3L3	S.	" " 2 & 3																							
4L3	P. & S.	" " 1 & 4																							
5L3	P.	" " 1, 2 & 5																							
5L3	S.	" " 2, 3 & 5																							
6L3	P. & S.	" " 4, 5 & 6																							
8L3	P. & S.	" " 3, 4, 5 & 6																							

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CYLINDER BLOCK, CYLINDER HEAD, SPRAYER AND COMPRESSED AIR STARTING—Section 1

Plate No.	Part No.	Description	Plate No.	Part No.	Description
7	1/218	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control ; prepared for, but not fitted with Compressed Air Starting Details ; and without Sprayer, Comprising 1/24 to 1/46, 1/48 to 1/60, 1/77 to 1/80, 1/141, 1/160 or 1/161, 1/162, 1/223 to 1/225, 1/231, 1/232, 14/41 { 3L3 P. & S. None 4L3 P. & S. Cylinder No. 2 5L3 P. " " 3 5L3 S. " " 1 6L3 P. & S. Cylinders Nos. 1 & 2 8L3 P. & S. " " 1, 2 & 8	7	1/232	Exhaust Valve Seat Insert, Standard
	1/219	CYLINDER HEAD ASSEMBLY, with Compression Relief for Local Control, but without Sprayer and not arranged for Compressed Air Starting, Comprising 1/24 to 1/46, 1/48 to 1/60, 1/77 to 1/80, 1/141, 1/160, 1/162, 1/223 to 1/225, 1/231, 1/232, 14/41		1/233	Inlet Valve Seat Insert, .010" oversize
6	1/220	Cylinder Liner Lining—Hardened		1/234	Exhaust Valve Seat Insert, .010" oversize
7	1/221	Sprayer Valve Spring—55 lb. (Supplied only with 1) (Set of Part No. 1/222)			
	1/222	Sprayer Valve Spring Shim (In sets of 3)			
	1/223	Inlet Valve Guide			
	1/224	Compression Relief Cam—Type 2			
	1/225	Setscrew, Headless, Bronze, $\frac{5}{16}$ " B.S.F. \times $1\frac{1}{4}$ " long, fitted with 1/48			
Not illustrated	1/226	Packing, Circular, $\frac{11}{16}$ " \times $\frac{5}{16}$ " \times $\frac{1}{16}$ " (Lubricating Oil Pressure Gauge Mount on Cylinder Tappet Door)			
	1/227	Packing, Circular, $\frac{5}{8}$ " \times $\frac{3}{8}$ " \times $\frac{1}{32}$ " (Lubricating Oil Pressure Gauge Mount Plug)			
	1/228	Packing, Circular, $1\frac{1}{8}$ " \times $\frac{5}{16}$ " \times $\frac{1}{8}$ " (Lubricating Oil Pressure Gauge Mount on Cylinder Tappet Door)			
	1/229	Packing, Circular, $1\frac{3}{8}$ " \times $1\frac{1}{16}$ " \times $\frac{1}{32}$ " (Underside Cylinder Head Core Plug)			
	1/230	Packing, Circular, $\frac{5}{16}$ " \times $\frac{1}{8}$ " \times $\frac{1}{16}$ " (Lubricating Oil Pressure Gauge)			
7	1/231	Inlet Valve Seat Insert, Standard			

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



CRANKCASE—Section 2

Part No.	Description	Plate No.	Part No.	Description
2/1	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49, 2/50, 2/53, 2/57 to 2/61, 2/157 to 2/159 } 3L3	11	2/13	Crankcase Drain Pipe
2/2	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 4L3		2/14	Crankcase Drain Pipe Cap, fitted with 2/15
2/3	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 5L3	12	2/15	Disc, Leather, 1" diam. $\times \frac{1}{16}$ "
2/4	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 6L3		2/16	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49, 2/50, 2/53, 2/57 to 2/61, 2/157 } 3L3
2/5	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 7L3		2/17	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 4L3
2/6	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 8L3		2/18	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 5L3
2/7	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49, 2/50, 2/53, 2/57 to 2/61, 2/157 to 2/159 } 3L3		2/19	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 6L3
2/8	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 4L3		2/20	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 7L3
2/9	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 5L3		2/21	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 8L3
2/10	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 6L3		2/22	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49, 2/50, 2/53, 2/57 to 2/61, 2/157 } 3L3
2/11	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 7L3		2/23	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 4L3
2/12	Crankcase—Lower—Stationary, fitted with 2/13 to 2/15, 2/33, 2/37 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 to 2/159 } 8L3		2/24	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 5L3
			2/25	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 to 2/44, 2/49 to 2/53, 2/57 to 2/61, 2/157 } 6L3

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description	
12	2/26	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 } 7L3	11, 12, 13	2/45	Crankshaft Journal Bearing—Chain Case End and Centre, Upper and Lower (Upper and Lower Halves not supplied separately)	
	2/27	Crankcase—Lower—Marine, fitted with 2/28, 2/29, 2/33, 2/35 } 8L3		2/45US	Crankshaft Journal Bearing—Chain Case End and Centre, Upper and Lower Halves (Upper and Lower Halves not supplied separately) } Undersize MUST be	
	2/28	Crankcase Drain Plug, fitted with 2/29		2/46	Crankshaft Journal Bearing—Short, Upper and Lower Halves (Upper and Lower Halves not supplied separately)	
	2/29	Packing, Circular, 1 1/4" x 1 3/8" x 1/32"		2/46US	Crankshaft Journal Bearing—Short, Upper and Lower Halves (Upper and Lower Halves not supplied separately) } Undersize MUST be	
11, 12	2/30	Crankcase Sump Door—Motion Work Side, fitted with 2/33		2/47	Crankshaft Journal Bearing—Short Locating, Upper and Lower Halves (Upper and Lower Halves not supplied separately)	
	2/31	Oil Level Dip Rod		2/47US	Crankshaft Journal Bearing—Short Locating, Upper and Lower Halves (Upper and Lower Halves not supplied separately) } Undersize MUST be	
	2/32	Crankcase Sump Door—Exhaust Side, fitted with 2/33		2/48	Crankshaft Journal Bearing—Flywheel End, Upper and Lower Halves (Upper and Lower Halves not supplied separately)	
	2/33	Crankcase Sump Door Packing		2/48US	Crankshaft Journal Bearing—Flywheel End, Upper and Lower Halves (Upper and Lower Halves not supplied separately) } Undersize MUST be	
	2/34	Setscrew, Hex. Head, 5/16" Wh. x 3/4" long x 5/16" Hex.		11, 12	2/49	Cylinder Foot Stud, 20 3/4" long, fitted with 2/53
12	2/35	Crankcase Foot Cover		2/50	Cylinder Foot Stud, 19 3/8" long, fitted with 2/53	
	2/36	Metallic Drive Screw, No. 6 x 3/8" long		2/51	Cylinder Foot Stud, 21 1/2" long, fitted with 2/52, 2/53 .. 4L3, 5L3, 6L3, 7L	
11, 12	2/37	Main Bearing Cap Stud—Long, fitted with 2/39, 2/40		2/52	Cylinder Foot Stud Washer 4L3, 5L3, 6L3, 7L	
	2/38	Main Bearing Cap Stud—Short, fitted with 2/39		2/53	Nut, Steel, 7/8" B.S.F. x 7/8" x 3/4" Hex.	
	2/39	Castle Nut, 3/4" B.S.F.	14	2/54	Stud, 3/8" Wh. x 1 5/8" long, fitted with 2/57 Ram Type	
	2/40	Split Pin, 1/8" diam. x 1 3/4" long		2/55	Stud, 3/8" Wh. x 2 1/4" long, fitted with 2/56, 2/57 } .. Centrifugal Type	
11, 12, 13	2/41	Main Bearing Cap—Chain Case End and Centre		2/56	Water Pump Locking Plate	
	2/42	Main Bearing Cap—Short				
	2/43	Main Bearing Cap—Flywheel End				
11, 12	2/44	Main Bearing Oil Pipe Stock—Flywheel End				

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CRANKCASE—Section 2

Part No.	Description	Plate No.	Part No.	Description
2/57	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{5}{16}$ " Hex.	14	2/69	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/299, 2/301
2/58	Stud, $\frac{3}{8}$ " Wh. $\times 1 \frac{5}{16}$ " long, fitted with 2/57		2/70	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/301
2/59	Stud, $\frac{3}{8}$ " Wh. $\times 1 \frac{1}{2}$ " long, fitted with 2/60		2/71	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/299, 2/301
2/60	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{5}{16}$ " $\times \frac{5}{16}$ " Hex.		2/72	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/299, 2/301
2/61	Packing, Oval, $2 \frac{1}{8}$ " centres $\times 1 \frac{3}{4}$ " wide		2/73	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168
2/62	Flange, Oval, Cast Iron, Blank, $2 \frac{1}{8}$ " centres $\times 1 \frac{3}{4}$ " wide, fitted with 2/61		2/74	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/301
2/63	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/299, 2/301		2/75	Stud, $\frac{3}{8}$ " Wh. $\times 2$ " long, fitted with 2/76
2/64	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/301		2/76	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{3}{8}$ " Hex.
2/65	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/299, 2/301		2/77	Setscrew, Hex. Head, $\frac{5}{8}$ " Wh. $\times 1 \frac{7}{8}$ " long $\times \frac{1}{2}$ " Hex.
2/66	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/299, 2/301		2/78	Setscrew, Hex. Head, $\frac{7}{16}$ " Wh. $\times 1 \frac{3}{8}$ " long $\times \frac{3}{8}$ " Hex.
2/67	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168	2/79	Setscrew, Hex. Head, $\frac{5}{8}$ " Wh. $\times 1 \frac{1}{2}$ " long $\times \frac{1}{2}$ " Hex.	
2/68	Crankcase—Upper, fitted with (2/54, 2/57) or (2/55 to 2/57), 2/161, 2/58, 2/75, 2/76, 2/80 to 2/83, 2/110, 2/111, 2/141, 2/168, 2/298, 2/301	2/80	Steady Peg, $\frac{1}{2}$ " diam. $\times 1 \frac{1}{4}$ " long	
		2/81	Camshaft Bush—Chain Case End	

} Port only

} Port

} Starboard

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CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description
14	2/82	Camshaft Bush—Intermediate and Flywheel End	14	2/100	Setscrew, Sq. Head, Pointed, O B.A. × $\frac{13}{32}$ " long
	2/83	Camshaft Bush Locating Screw		2/101	Valve Camshaft Gear Distance Collar
	2/84	Camshaft Hole Cover		2/102	Bilge Pump Clutch Body Key
	2/85	Setscrew, Cheese Head, O B.A. × $\frac{1}{2}$ " long		2/103	Ball Thrust Washer, $1\frac{3}{8}$ " bore
	2/86	Valve Camshaft, fitted with 2/98 to 2/100 3L3		2/104	Valve Camshaft Locating Collar—Port
	2/87	Valve Camshaft, fitted with 2/98 to 2/100 4L3		2/105	Valve Camshaft Locating Collar—Starboard
	2/88	Valve Camshaft, fitted with 2/98 to 2/100 5L3		2/106	Valve Cam, Forward Rotation, fitted with 2/107
	2/89	Valve Camshaft, fitted with 2/98 to 2/100 6L3		2/107	Setscrew, Sq. Head, Pointed, $\frac{1}{2}$ "—16 Thds. × $\frac{13}{16}$ " long
	2/90	Valve Camshaft, fitted with 2/98 to 2/100 7L3		2/108	Air Starting Cam, fitted with 2/109
	2/91	Valve Camshaft, fitted with 2/98 to 2/100 8L3		2/109	Setscrew, Sq. Head, Pointed, $\frac{5}{16}$ "—22 Thds. × $\frac{13}{16}$ " long
	2/92	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 3L3		2/110	Stud, $\frac{7}{16}$ " Wh. × $2\frac{7}{16}$ " long, fitted with 2/111
	2/93	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 4L3		2/111	Nut, Steel, $\frac{7}{16}$ " Wh. × $\frac{7}{16}$ " × $\frac{7}{16}$ " Hex.
	2/94	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 5L3		2/112	Valve Tappet Guide
	2/95	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 6L3		2/113	Valve Tappet
	2/96	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 7L3		2/114	Valve Tappet Guide Clamp
	2/97	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 8L3		2/115	Valve Lever Push Rod
	2/98	Valve Camshaft Gear Body Key		2/116	Air Starting Tappet
	2/99	Valve Camshaft Nut, fitted with 2/100		2/117	Air Starting Tappet Spring

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKCASE—Section 2

Part No.	Description	Plate No.	Part No.	Description
2/118	Crankcase Door—Plain, fitted with 2/141	15	2/132	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/119	Crankcase Door—Oil Filler, fitted with 2/120 to 2/123, 2/141		2/133	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/120	Crankcase Oil Filler Gauze		2/134	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/121	Setscrew, Cheese Head, 2 B.A. $\times \frac{3}{8}$ " long		2/135	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/122	Crankcase Oil Filler Cover Stud		2/136	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/123	Crankcase Oil Filler Cap		2/137	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230
2/124	Crankcase Door—Fuel Pump Cam Box, fitted with 2/125, 2/168		2/138	Steady Peg, $\frac{5}{16}$ " diam. $\times \frac{3}{4}$ " long
2/125	Steady Peg, $\frac{5}{16}$ " diam. $\times \frac{3}{4}$ " long		2/139	Crankcase Door—Lubricating Oil Strainer—Port, fitted with 2/141
2/126	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		2/140	Crankcase Door—Lubricating Oil Strainer—Starboard, fitted with 2/141
2/127	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		2/141	Crankcase Door Packing, for 2/118, 2/119, 2/139, 2/140
2/128	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		2/142	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times \frac{7}{8}$ " long $\times \frac{5}{16}$ " Hex.
2/129	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		2/143	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times \frac{1}{2}$ " long $\times \frac{5}{16}$ " Hex.
2/130	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		16	2/144 Lubricating Oil Suction Strainer Body, fitted with 2/145, 2/146
2/131	Crankcase Door—Governor Steady, fitted with 2/138, 2/168, 2/229, 2/230		2/145	Lubricating Oil Suction Strainer Gauze
			2/146	Setscrew, Cheese Head, 3 B.A. $\times \frac{3}{8}$ " long

Starboard

Port

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description	
16	2/147	Lubricating Oil Suction Strainer Pipe, fitted with 2/149	14	2/162	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 3L3	
	2/148	Lubricating Oil Suction Strainer Pipe Spring		2/163	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 4L3	
	2/149	Split Pin, $\frac{3}{32}$ " diam. \times $\frac{1}{2}$ " long		2/164	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 5L3	
	2/150	LUBRICATING OIL SUCTION STRAINER ASSEMBLY, Comprising 2/144 to 2/149		2/165	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 6L3	
	2/151	Lubricating Oil Suction Pipe, fitted with 2/61, 2/154 to 2/156 { Marine Engines (Superseded for Rail Traction Engines by 2/305 and 2/310, which will be supplied for replacements)		2/166	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 7L3	
	2/152	Lubricating Oil Suction Pipe, fitted with 2/61, 2/154 to 2/156 { Rail Traction and Stationary Engines with one Lubricating Oil Pump		2/167	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 .. 8L3	
	2/153	Ball, $\frac{5}{8}$ " diam.		15	2/168	Crankcase Door Packing, for 2/124, 2/126 to 2/137
	2/154	Lubricating Oil Suction Foot Valve Body Plug, $1\frac{1}{2}$ "—12 Thds., fitted with 2/155, for 2/151, 2/152, 2/305			11	2/169
	2/155	Packing, Circular, $1\frac{3}{8}$ " \times $1\frac{1}{16}$ " \times $\frac{1}{32}$ "		2/170		CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/2, 2/30 to 2/34, 2/45 to 2/48, 2/62 } 4L3
	2/156	Packing, Oval, 2" centres \times $1\frac{5}{8}$ " wide		2/171		CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/3, 2/30 to 2/34, 2/45 to 2/48, 2/62 } 5L3
11, 12	2/157	Main Bearing Oil Pipe Stock—Centre and Intermediate	2/172	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/4, 2/30 to 2/34, 2/45 to 2/48, 2/62 } 6L3		
	11	2/158	Stud, $\frac{5}{16}$ " Wh. \times $1\frac{1}{4}$ " long, fitted with 2/159	2/173	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/5, 2/30 to 2/34, 2/45 to 2/48, 2/62 } 7L3	
		2/159	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{5}{16}$ " Hex.	2/174	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/6, 2/30 to 2/34, 2/45 to 2/48, 2/62 } 8L3	
16	2/160	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $\frac{7}{8}$ " long \times $\frac{5}{16}$ " Hex.	2/175		CRANKCASE—LOWER—STATIONARY, ASSEMBLY, Comprising 2/7, 2/30 to 2/34, 2/45 to 2/48 } 3L3 Starbo	
14	2/161	Stud, $\frac{3}{8}$ " Wh. \times $4\frac{3}{16}$ " long, fitted with 2/56, 2/57 .. { 5L3, 6L3, 8L3 Centrifugal Type Pump				

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CRANKCASE—Section 2

Part No.	Description	Plate No.	Part No.	Description
2/176	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, } Comprising 2/8, 2/30 to 2/34, 2/45 to 2/48	12	2/188	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/23, 2/30 to 2/34, 2/45 to 2/48
2/177	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, } Comprising 2/9, 2/30 to 2/34, 2/45 to 2/48		2/189	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/24, 2/30 to 2/34, 2/45 to 2/48
2/178	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, } Comprising 2/10, 2/30 to 2/34, 2/45 to 2/48		2/190	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/25, 2/30 to 2/34, 2/45 to 2/48
2/179	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, } Comprising 2/11, 2/30 to 2/34, 2/45 to 2/48		2/191	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/26, 2/30 to 2/34, 2/45 to 2/48
2/180	CRANKCASE—LOWER—STATIONARY, ASSEMBLY, } Comprising 2/12, 2/30 to 2/34, 2/45 to 2/48		2/192	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/27, 2/30 to 2/34, 2/45 to 2/48
2/181	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/16, 2/30 to 2/34, 2/45 to 2/48, 2/62	14, 17	2/193	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)
2/182	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/17, 2/30 to 2/34, 2/45 to 2/48, 2/62		2/194	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)
2/183	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/18, 2/30 to 2/34, 2/45 to 2/48, 2/62		2/195	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
2/184	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/19, 2/30 to 2/34, 2/45 to 2/48, 2/62		2/196	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
2/185	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/20, 2/30 to 2/34, 2/45 to 2/48, 2/62			
2/186	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/21, 2/30 to 2/34, 2/45 to 2/48, 2/62			
2/187	CRANKCASE—LOWER—MARINE, ASSEMBLY, } Comprising 2/22, 2/30 to 2/34, 2/45 to 2/48			

} Starboard

} Port

} .. 4L3 }
} .. 5L3 }
} .. 6L3 } Starboard
} .. 7L3 }
} .. 8L3 }

} .. 3L3 }
} Centrifugal
} Type Pump

} 4L3 }
} Centrifugal
} Type Pump

} 5L3 }
} Centrifugal
} Type Pump

} 6L3 }
} Centrifugal
} Type Pump

Forward Rotation
Engines fitted
with Compressed
Air Starting
but without
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description					
14, 17	2/197	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	14, 17	2/204	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)					
		7L3 Centrifugal Type Pump			8L3 Ram Type Pump	Forward Rotation fitted with Compr Starting but with Pump. Hand of Engine an tion of Rotation specified.				
	2/198	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)		2/205	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/92 Port or 2/162 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		3L3 Ram Type Pump			
		8L3 Centrifugal Type Pump			2/206		VALVE CAMSHAFT ASSEMBLY, Com- prising 2/93 Port or 2/163 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	4L3 Ram Type Pump		
	2/199	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		3L3 Ram Type Pump	Forward Rotation Engines fitted with Compressed Air Starting but without Bilge Pump. Hand of Engine and direction of Rotation must be specified		2/207	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/94 Port or 2/164 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	5L3 Ram Type Pump	Forward Rota Engines fitted with Compress Air Startin and Bilge Pu Hand of En and directio Rotation m be specifi
	2/200	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		4L3 Ram Type Pump			2/208	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/95 Port or 2/165 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	6L3 Ram Type Pump	
	2/201	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		5L3 Ram Type Pump			2/209	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/96 Port or 2/166 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump	
	2/202	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		6L3 Ram Type Pump			2/210	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/97 Port or 2/167 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	8L3 Ram Type Pump	
2/203	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/106 to 2/109, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump								

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CRANKCASE—Section 2

Part No.	Description	Plate No.	Part No.	Description
2/211	VALVE CAMSHAFT ASSEMBLY, Comprising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)	14, 17	2/217	VALVE CAMSHAFT ASSEMBLY, Comprising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)
	3L3 Centrifugal Type Pump			3L3 Ram Type Pump
2/212	VALVE CAMSHAFT ASSEMBLY, Comprising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)		2/218	VALVE CAMSHAFT ASSEMBLY, Comprising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)
	4L3 Centrifugal Type Pump			4L3 Ram Type Pump
2/213	VALVE CAMSHAFT ASSEMBLY, Comprising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)		2/219	VALVE CAMSHAFT ASSEMBLY, Comprising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)
	5L3 Centrifugal Type Pump			5L3 Ram Type Pump
2/214	VALVE CAMSHAFT ASSEMBLY, Comprising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	2/220	VALVE CAMSHAFT ASSEMBLY, Comprising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	
	6L3 Centrifugal Type Pump		6L3 Ram Type Pump	
2/215	VALVE CAMSHAFT ASSEMBLY, Comprising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	2/221	VALVE CAMSHAFT ASSEMBLY, Comprising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	
	7L3 Centrifugal Type Pump		7L3 Ram Type Pump	
2/216	VALVE CAMSHAFT ASSEMBLY, Comprising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	2/222	VALVE CAMSHAFT ASSEMBLY, Comprising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	
	8L3 Centrifugal Type Pump		8L3 Ram Type Pump	

Forward Rotation
Engines NOT
fitted with
Compressed
Air Starting
or Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

Forward Rotation
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When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description	
14, 17	2/223	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/92 Port or 2/162 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	3L3 Ram Type Pump	15	2/229	Stud, $\frac{5}{16}$ " Wh. \times $1\frac{3}{16}$ " long, fitted with 2/230
					2/230	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{5}{16}$ " Hex.
	2/224	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/93 Port or 2/163 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	4L3 Ram Type Pump	14	2/231	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 3L3
	2/225	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/94 Port or 2/164 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	5L3 Ram Type Pump		2/232	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 4L3
	2/226	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/95 Port or 2/165 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	6L3 Ram Type Pump		2/233	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 5L3
	2/227	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/96 Port or 2/166 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump		2/234	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 6L3
	2/228	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/97 Port or 2/167 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/106, 2/107, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	8L3 Ram Type Pump		2/235	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 7L3
					2/236	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 8L3
					2/237	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 3L3
					2/238	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 4L3
					2/239	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 5L3
					2/240	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 6L3
					2/241	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 7L3
					2/242	Valve Camshaft, fitted with 2/98 to 2/100, 2/102 8L3
					2/243	Valve Cam, Reverse Rotation, fitted with 2/107

Forward Rotation
Engines NOT
fitted with
Compressed
Air Starting
but with
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified.

Port Engine
Clockwise
Rotation
Looking
Flywheel
(See Plate
Marine Engine
fitted with
Bilge Pump

Starboard Engine
Anti-Clockwise
Rotation
Looking
Flywheel
(See Plate
Marine Engine
fitted with
Bilge Pump

CRANKCASE—Section 2

Part No.	Description		Plate No.	Part No.	Description	
2/244	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)	3L3 Centrifugal Type Pump	14	2/249	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	8L3 Centrifugal Type Pump
2/245	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)	4L3 Centrifugal Type Pump		2/250	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	3L3 Ram Type Pump
2/246	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)	5L3 Centrifugal Type Pump		2/251	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	4L3 Ram Type Pump
2/247	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	6L3 Centrifugal Type Pump		2/252	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	5L3 Ram Type Pump
2/248	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)	7L3 Centrifugal Type Pump		2/253	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	6L3 Ram Type Pump
				2/254	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump
			2/255	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	8L3 Ram Type Pump	

Reverse
Rotation Engines
fitted with
Compressed
Air Starting
but without
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

Reverse
Rotation Engines
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Compressed
Air Starting
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Hand of Engine
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When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description
14	2/256	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/231 Port or 2/237 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	14	2/262	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)
		3L3 Ram Type Pump			3L3 Centrifugal Type Pump
	2/257	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/232 Port or 2/238 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		2/263	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/73 Port or 3/74 Starboard (Part No. 4/35 or 4/36 and 10/45 or 10/46 MUST also be supplied)
		4L3 Ram Type Pump			4L3 Centrifugal Type Pump
	2/258	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/233 Port or 2/239 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		2/264	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
		5L3 Ram Type Pump			5L3 Centrifugal Type Pump
	2/259	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/234 Port or 2/240 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		2/265	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
		6L3 Ram Type Pump			6L3 Centrifugal Type Pump
	2/260	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/235 Port or 2/241 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		2/266	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
		7L3 Ram Type Pump			7L3 Centrifugal Type Pump
	2/261	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/236 Port or 2/242 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107 to 2/109, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)		2/267	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/75 Port or 3/76 Starboard (Part No. 4/43 or 4/44 and 10/45 or 10/46 MUST also be supplied)
		8L3 Ram Type Pump			8L3 Centrifugal Type Pump

Reverse Rotation
Engines with
Compressed Air
Starting and
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

Reverse Ro
Engines I
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Starting
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Hand of E
and direct
Rotation
be speci

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKCASE—Section 2

Part No.	Description		Plate No.	Part No.	Description	
2/268	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/86, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	3L3 Ram Type Pump	14	2/274	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/231 Port or 2/237 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	3L3 Ram Type Pump
2/269	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/87, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	4L3 Ram Type Pump		2/275	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/232 Port or 2/238 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	4L3 Ram Type Pump
2/270	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/88, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	5L3 Ram Type Pump		2/276	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/233 Port or 2/239 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	5L3 Ram Type Pump
2/271	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/89, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	6L3 Ram Type Pump		2/277	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/234 Port or 2/240 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	6L3 Ram Type Pump
2/272	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/90, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump		2/278	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/235 Port or 2/241 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	7L3 Ram Type Pump
2/273	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/91, 2/101, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	8L3 Ram Type Pump		2/279	VALVE CAMSHAFT ASSEMBLY, Com- prising 2/236 Port or 2/242 Starboard, 2/103, 2/104 Port or 2/105 Starboard, 2/107, 2/243, 3/72 (Part No. 10/45 or 10/46 MUST also be supplied)	8L3 Ram Type Pump

Reverse Rotation
Engines NOT
fitted with
Compressed Air
Starting or
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

Reverse Rotation
Engines NOT
fitted with
Compressed Air
Starting
but with
Bilge Pump.
Hand of Engine
and direction of
Rotation must
be specified

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



CRANKCASE—Section 2

Plate No.	Part No.	Description	Plate No.	Part No.	Description
14	2/280	Lubricating Oil Suction Foot Valve Body Adaptor—Straight, fitted with 2/61, for 2/152, 2/305	14	2/298	Cylinder Foot and Crankcase Packing—2 Block
	2/281	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. $\times 1\frac{1}{4}$ " long, fitted with 2/60, for 2/152		2/299	Cylinder Foot and Crankcase Packing—3 Block
	2/282	Flange, Blank, 2" centres $\times 1\frac{5}{8}$ " wide, fitted with 2/156, for 2/151, 2/152 (not required when Additional Lubricating Oil Pump is fitted)		2/300	Packing, Circular, $\frac{11}{16}$ " $\times \frac{5}{16}$ " $\times \frac{1}{16}$ " (Sump Emptying Pump Hole Plug)
	2/283	Valve Camshaft, fitted with 2/98 to 2/100 3L3		2/301	Cylinder Foot Joint Ring
	2/284	Valve Camshaft, fitted with 2/98 to 2/100 4L3		2/302	Crankcase Door Packing (When Fuel Lift Pump is fitted)
	2/285	Valve Camshaft, fitted with 2/98 to 2/100 5L3		2/303	Lubricating Oil Filler Body Packing (When Fuel Lift Pump is fitted)
	2/286	Valve Camshaft, fitted with 2/98 to 2/100 6L3		2/304	Fuel Lift Pump Packing
	2/287	Valve Camshaft, fitted with 2/98 to 2/100 8L3		2/305	Lubricating Oil Suction Foot Valve Body—Pressure Return Type, fitted with 2/61, 2/153 to 2/155, 2/306 to 2/309
	2/288	Valve Camshaft, fitted with 2/98 to 2/100 3L3			Rail Traction and Stationary with two Lubricating Oil
	2/289	Valve Camshaft, fitted with 2/98 to 2/100 4L3		2/306	Lubricating Oil Suction Foot Valve Disc Valve, for 2/305
	2/290	Valve Camshaft, fitted with 2/98 to 2/100 5L3		2/307	Lubricating Oil Suction Foot Valve Disc Valve Spring, for 2/305
	2/291	Valve Camshaft, fitted with 2/98 to 2/100 6L3		2/308	Lubricating Oil Suction Foot Valve Body Plug, $1\frac{1}{4}$ "—16 Thds., fitted with 2/305
	2/292	Valve Camshaft, fitted with 2/98 to 2/100 8L3		2/309	Packing, Circular, $1\frac{9}{16}$ " $\times 1\frac{3}{16}$ " $\times \frac{1}{32}$ "
	2/293	Valve Camshaft, fitted with 2/98 to 2/100 3L3		2/310	Lubricating Oil Suction Foot Valve Body Adaptor—Offset, fitted with 2/61, 2/305
	2/294	Valve Camshaft, fitted with 2/98 to 2/100 4L3		2/311	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. $\times 1\frac{15}{16}$ " long, fitted with 2/60, for 2/305
	2/295	Valve Camshaft, fitted with 2/98 to 2/100 5L3			
	2/296	Valve Camshaft, fitted with 2/98 to 2/100 6L3			
	2/297	Valve Camshaft, fitted with 2/98 to 2/100 8L3			

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CHAIN CASE AND CHAIN DRIVE—Section 3

Part No.	Description	Plate No.	Part No.	Description
3/1	Chain Case—Port, fitted with 3/5 to 3/10, 3/13, 3/14	17	3/15	Chain Case Splash Door (Anti-Clockwise Rotation Engines Looking on Flywheel End See Plate 5), fitted with 3/66
			3/16	Chain Case Splash Door (Clockwise Rotation Engines Looking on Flywheel End See Plate 5), fitted with 3/66
3/2	Chain Case—Port, fitted with 3/5 to 3/10, 3/13, 3/14		3/17	Chain Case Cover—Port (Aluminium), fitted with 3/19, 3/20
3/3	Chain Case—Starboard, fitted with 3/5 to 3/10, 3/13, 3/14		3/18	Chain Case Cover—Starboard (Aluminium), fitted with 3/19, 3/20
			3/19	Steady Peg, $\frac{5}{16}$ " diam. \times $\frac{3}{4}$ " long
3/4	Chain Case—Starboard, fitted with 3/5 to 3/10, 3/13, 3/14		3/20	Chain Case Cover Bush, for 3/17 and 3/18
3/5	Steady Peg, $\frac{7}{16}$ " diam. \times 1" long		3/21	Ball Journal Bearing, 1 $\frac{1}{4}$ " bore (same as 7/62)
3/6	Stud, $\frac{5}{16}$ " Wh. \times 1 $\frac{3}{16}$ " long, fitted with 3/7		3/22	Chain Adjuster Eccentric, fitted with 3/23, 3/24, 3/28
3/7	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{1}{4}$ " Hex.		3/23	Nut, Steel, 1" B.S.F. \times $\frac{3}{16}$ " \times 1" Hex.
3/8	Stud, $\frac{3}{8}$ " Wh. \times 1 $\frac{5}{8}$ " long, fitted with 3/10 or 3/63		3/24	Chain Adjuster Locknut Tabwasher
3/9	Stud, $\frac{3}{8}$ " Wh. \times 1 $\frac{1}{4}$ " long, fitted with 3/10 or 3/63		3/25	Chain Adjuster Wheel—Triplex
3/10	Nut, Steel, $\frac{3}{8}$ " Wh. \times $\frac{3}{8}$ " \times $\frac{3}{8}$ " Hex.		3/26	Ball Journal Bearing, $\frac{7}{8}$ " bore
3/11	Stud, $\frac{5}{16}$ " Wh. \times 1 $\frac{3}{16}$ " long, fitted with 3/12		3/27	Ball Journal Bearing Distance Collar
3/12	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{5}{16}$ " Hex.		3/28	Chain Adjuster Eccentric Nut
3/13	Stud, $\frac{5}{16}$ " Wh. \times 1 $\frac{1}{4}$ " long, fitted with 3/14		3/29	Chain Adjuster Eccentric Nut Locking Wire — Cancelled
3/14	Nut, Steel, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{5}{16}$ " Hex.		3/30	Valve Camshaft Chain Wheel and Gear Adapter—Ram Pump Type, fitted with 3/36 to 3/39

}

Non-Roller
Bearing
Type

} Superseded by 10/67, which will be supplied for replacements

CHAIN CASE AND CHAIN DRIVE—Section 3

Plate No.	Part No.	Description	Plate No.	Part No.	Description
17	3/31	Ram Type Water Pump Eccentric Clip	17	3/45	Setscrew, Headless, $\frac{5}{16}$ " Wh. $\times 1\frac{1}{4}$ " long, fitted with 3/46
	3/32	Valve Camshaft Chain Wheel and Gear Adapter—Centrifugal Pump Type, fitted with 3/33, 3/36 to 3/39		3/46	Nut, Steel, $\frac{5}{16}$ " Wh. $\times \frac{5}{16}$ " $\times \frac{1}{4}$ " Hex.
	3/33	Woodruff Key		3/47	Fuel Injection Control Yoke
	3/34	Centrifugal Pump Driving Gear, 22 Teeth, Anti-Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 4/35. Hand of Engine and Direction of Rotation must be specified)		3/48	Fuel Injection Control Lever and Spindle, fitted with 3/49, 3/50, 3/53 to 3/55
	3/35	Centrifugal Pump Driving Gear, 22 Teeth, Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 4/36. Hand of Engine and Direction of Rotation must be specified)		3/49	Woodruff Key
	3/36	Stud, $\frac{3}{8}$ " B.S.F. $\times 1\frac{3}{4}$ " long, fitted with 3/37 to 3/39		3/50	Fuel Injection Control Spindle Thrust Washer
	3/37	Nut, Steel, $\frac{3}{8}$ " B.S.F. $\times \frac{3}{8}$ " $\times \frac{5}{16}$ " Hex.		3/51	Fuel Injection Control Pointer, fitted with 3/52
	3/38	Washer, Steel, $\frac{3}{8}$ " diam.		3/52	Fuel Injection Control Pointer Friction Washer
	3/39	Split Pin, $\frac{5}{16}$ " diam. $\times \frac{7}{8}$ " long		3/53	Spring Washer, $\frac{7}{16}$ " diam.
	3/40	Fuel Pump Camshaft Driving Gear (Supplied only with Part No. 10/45 or 10/46. Hand of Engine and Direction of Rotation must be specified)		3/54	Castle Nut, $\frac{7}{16}$ " B.S.F.
	3/41	Valve Camshaft Chain Wheel—Triplex		3/55	Split Pin, $\frac{3}{32}$ " diam. $\times 1\frac{1}{4}$ " long
	3/42	Bush Roller Chain—Triplex (supplied with 3/64)		3/56	Chain Case Cover—Port (Cast Iron), fitted with 3/19
	3/43	Fuel Injection Control Plate, fitted with 3/44 to 3/46, 3/50, 3/52 (and 3/59 for 3L3 Variable Speed Engines)		3/57	Chain Case Cover—Starboard (Cast Iron), fitted with 3/19
	3/44	Steady Peg, $\frac{3}{16}$ " diam. $\times \frac{9}{16}$ " long		3/58	Fuel Injection Control Connection Lever, fitted with 3/60, 3/84
				3/59	Spring Post, in 3/43, for 11/92 3L3 Variable Speed E
				3/60	Bolt, Hex. Head, $\frac{1}{4}$ "—28 Thds. $\times 1$ " long $\times \frac{3}{16}$ " Hex.
				3/61	Centrifugal Pump Driving Gear, 28 Teeth, Anti-Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 4/43. Hand of Engine and Direction of Rotation must be specified)

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CHAIN CASE AND CHAIN DRIVE—Section 3

Part No.	Description	Plate No.	Part No.	Description		
3/62	Centrifugal Pump Driving Gear, 28 Teeth, Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 4/44. Hand of Engine and Direction of Rotation must be specified)	17	3/73	VALVE CAMSHAFT GEAR AND CHAIN WHEEL ASSEMBLY, Comprising 3/32, 3/34, 3/40, 3/41 (Part No. 4/35 and 10/45 or 10/46 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)	3L3, 4L3 Centrifugal Pump Type	} Port
3/63	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{5}{16}$ " Hex.					
3/64	Timing Chain Single Connecting Link and Clip (same as 21/70)					
3/65	Timing Chain Spring Clip Fastener					
3/66	Steady Peg, $\frac{1}{4}$ " diam. $\times \frac{15}{32}$ " long		3/74	VALVE CAMSHAFT GEAR AND CHAIN WHEEL ASSEMBLY, Comprising 3/32, 3/35, 3/40, 3/41 (Part No. 4/36 and 10/45 or 10/46 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)	3L3, 4L3 Centrifugal Pump Type	} Starboard
3/67	CHAIN CASE ASSEMBLY, Comprising 3/1, 3/15, 3/17 or 3/56, 3/71	} Port				
3/68	CHAIN CASE ASSEMBLY, Comprising 3/2, 3/15, 3/17 or 3/56, 3/71			3/75	VALVE CAMSHAFT GEAR AND CHAIN WHEEL ASSEMBLY, Comprising 3/32, 3/40, 3/41, 3/61 (Part No. 4/43 and 10/45 or 10/46 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)	5L3, 6L3, 8L3 Centrifugal Pump Type
3/69	CHAIN CASE ASSEMBLY, Comprising 3/3, 3/16, 3/18 or 3/57, 3/71	} Starboard				
3/70	CHAIN CASE ASSEMBLY, Comprising 3/4, 3/16, 3/18 or 3/57, 3/71			3/76	VALVE CAMSHAFT GEAR AND CHAIN WHEEL ASSEMBLY, Comprising 3/32, 3/40, 3/41, 3/62 (Part No. 4/44 and 10/45 or 10/46 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)	5L3, 6L3, 8L3 Centrifugal Pump Type
3/71	CHAIN ADJUSTER ASSEMBLY, Comprising 3/22 to 3/28		3/77	FUEL INJECTION CONTROL ASSEMBLY, Comprising 3/43, 3/47, 3/48, 3/51		
3/72	VALVE CAMSHAFT GEAR AND CHAIN WHEEL ASSEMBLY, Comprising 3/30, 3/40, 3/41 (Part No. 10/45 or 10/46 MUST also be supplied. Hand of Engine and Direction of Rotation MUST be specified)	} Ram Pump	3/78		FUEL INJECTION CONTROL ASSEMBLY, Comprising 3/43, 3/47, 3/48, 3/51, 3/58	} Variable Speed Engines

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part,



CHAIN CASE AND CHAIN DRIVE—Section 3

Plate No.	Part No.	Description	Plate No.	Part No.	Description
17	3/79	Chain Case Splash Door (Anti-Clockwise Rotation Engines Looking on Flywheel End see Plate 5), fitted with 3/66, 3/81, 3/82			
	3/80	Chain Case Splash Door (Clockwise Rotation Engines Looking on Flywheel End see Plate 5), fitted with 3/66, 3/81, 3/82			
	3/81	Felt Sealing Ring, 2 $\frac{3}{4}$ " I.D. \times 3 $\frac{1}{8}$ " O.D. \times $\frac{3}{16}$ ", for 3/79, 3/80			
	3/82	Roller Bearing Spring Retaining Ring, for 3/79, 3/80			
	3/83	Roller Bearing, for 3/79, 3/80			
	3/84	Bush, Plain, $\frac{1}{4}$ " I.D. \times $\frac{11}{32}$ " O.D. \times $\frac{1}{4}$ " long, for 3/58			
	3/85	Injection Connection Spring Anchoring Plate, for 11/135, Clockwise Rotation Engines Looking on Flywheel End			
				4L3, 5L3, 6L3, 8L3 Automotive	
				Roller Bearing Type	

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

WATER PUMP AND DRIVE—CENTRIFUGAL TYPE—Section 4

Part No.	Description		Plate No.	Part No.	Description
4/1	Centrifugal Pump Body, S.L.G. Type—Port, fitted with 4/3 to 4/5, 4/7, 4/13, 4/23—CANCELLED	} 3L3, 4L3	18	4/17	Spring Washer, $\frac{3}{8}$ " diam.
4/2	Centrifugal Pump Body, S.L.G. Type—Starboard, fitted with 4/3 to 4/5, 4/7, 4/13, 4/23—CANCELLED			4/18	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. $\times 1\frac{1}{4}$ " long $\times \frac{3}{8}$ " Hex., fitted with 4/16, for 18/15
4/3	Centrifugal Pump Impeller Bush	} 3L3, 4L3		4/19	Packing, Oval, $1\frac{1}{2}$ " centres $\times 1\frac{1}{2}$ " wide
4/4	Stud, O B.A. $\times \frac{7}{8}$ " long, fitted with 4/5		4/20	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times 1$ " long $\times \frac{5}{16}$ " Hex.	
4/5	Nut, Steel, O B.A. $\times \frac{7}{32}$ " $\times \frac{3}{16}$ " Hex.			4/21	Pump Impeller, S.L.G. Type—Port, fitted with 4/23
4/6	Centrifugal Pump Body Cover, fitted with 4/7, 4/13, 4/19			4/22	Pump Impeller, S.L.G. Type—Starboard, fitted with 4/23
4/7	Centrifugal Pump Body Cover Packing, for 4/6			4/23	Gland Packing, Cork, S.L.G. Type (same as 21/66), supplied only in sets (1 set=4 Packings)
4/8	Lubricator, $\frac{1}{4}$ " Gas			4/24	Pump Spigot Plate ("X"=1.520"), fitted with 4/25 to 4/27
4/9	Drain Cock, $\frac{1}{4}$ " Gas, fitted with 4/10			4/25	Steady Peg, $\frac{1}{4}$ " diam. $\times \frac{5}{8}$ " long
4/10	Drain Cock Locking Washer			4/26	Pump Spigot Plate Cover
4/11	Flange, Oval, Brass, $1\frac{1}{2}$ " bore $\times 2\frac{1}{2}$ " centres $\times 2\frac{1}{8}$ " wide, fitted with 4/13			4/27	Pump Spigot Plate Cover Screw
4/12	Centrifugal Water Pump Suction Flange, $1\frac{1}{2}$ " Gas, fitted with 4/13			4/28	Pump Driving Shaft—Port, fitted with 4/30 to 4/33
4/13	Packing, Oval, $2\frac{1}{2}$ " centres $\times 2\frac{1}{8}$ " wide			4/29	Pump Driving Shaft—Starboard, fitted with 4/30 to 4/33
4/14	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. $\times 1\frac{3}{8}$ " long $\times \frac{3}{8}$ " Hex., fitted with 4/16, 4/17, for 4/11			4/30	Woodruff Key
4/15	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. $\times 2\frac{1}{8}$ " long $\times \frac{3}{8}$ " Hex., fitted with 4/16, 4/17, for 4/12			4/31	Washer, Steel, $\frac{7}{16}$ " diam.
4/16	Nut, Steel, $\frac{3}{8}$ " Wh. $\times \frac{3}{8}$ " $\times \frac{3}{8}$ " Hex.			4/32	Castle Nut, $\frac{7}{16}$ " B.S.F.
				4/33	Split Pin, $\frac{3}{32}$ " diam. $\times 1$ " long

Dimension "X" and "Y" must be carefully checked from the existing Pump and the appropriate Spare Part Number quoted to ensure correct replacement being supplied

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



WATER PUMP AND DRIVE—CENTRIFUGAL TYPE—Section 4

Plate No.	Part No.	Description	Plate No.	Part No.	Description
18	4/34	Ball Bearing Distance Tube	18	4/47	Centrifugal Pump Body, S.L.G. Type—Starboard, fitted with 4/3 to 4/5, 4/7, 4/13, 4/23—CANCELLED
	4/35	Pump Driven Gear, 11 Teeth, Anti-Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 3/34. Hand of Engine and Direction of Rotation must be specified)		4/48	CENTRIFUGAL TYPE WATER PUMP ASSEMBLY, Comprising 4/1, 4/6, 4/8, 4/9, 4/21, 4/40, 4/41 (Superseded by 4/79, which will be supplied for replacements)
	4/36	Pump Driven Gear, 11 Teeth, Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 3/35. Hand of Engine and Direction of Rotation must be specified)		4/49	CENTRIFUGAL TYPE WATER PUMP ASSEMBLY, Comprising 4/2, 4/6, 4/8, 4/9, 4/22, 4/40, 4/41 (Superseded by 4/80, which will be supplied for replacements)
	4/37	Pump Ball Bearing Bracket, fitted with 4/38, to suit 4/35, 4/36		4/50	CENTRIFUGAL TYPE WATER PUMP ASSEMBLY, Comprising 4/6, 4/8, 4/9, 4/21, 4/40, 4/41, 4/46 (Superseded by 4/81, which will be supplied for replacements)
	4/38	Steady Peg, 1/4 diam. x 5/8" long		4/51	CENTRIFUGAL TYPE WATER PUMP ASSEMBLY, Comprising 4/6, 4/8, 4/9, 4/22, 4/40, 4/41, 4/47 (Superseded by 4/82, which will be supplied for replacements)
	4/39	Roller Journal Bearing		4/52	CENTRIFUGAL TYPE WATER PUMP DRIVE ASSEMBLY, Comprising 4/24, 4/28, 4/34, 4/35, 4/37, 4/39, 4/83 (Part No. 3/34 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)
	4/40	Pump Gland Spring		4/53	CENTRIFUGAL TYPE WATER PUMP DRIVE ASSEMBLY, Comprising 4/24, 4/29, 4/34, 4/36, 4/37, 4/39, 4/83 (Part No. 3/35 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)
	4/41	Pump Gland Shroud		4/54	CENTRIFUGAL TYPE WATER PUMP DRIVE ASSEMBLY, Comprising 4/28, 4/34, 4/39, 4/42, 4/43, 4/45, 4/83 (Part No. 3/61 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)
	4/42	Pump Spigot Plate ("Y" = 1.166"), fitted with 4/25 to 4/27		4/55	CENTRIFUGAL TYPE WATER PUMP DRIVE ASSEMBLY, Comprising 4/29, 4/34, 4/39, 4/42, 4/44, 4/45, 4/83 (Part No. 3/62 MUST also be supplied. Hand of Engine and Direction of Rotation must be specified)
	4/43	Pump Driven Gear, 10 Teeth, Anti-Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 3/61. Hand of Engine and Direction of Rotation must be specified)			
	4/44	Pump Driven Gear, 10 Teeth, Clockwise Rotation Engines Looking on Flywheel End (Supplied only with Part No. 3/62. Hand of Engine and Direction of Rotation must be specified)			
	4/45	Pump Ball Bearing Bracket, fitted with 4/38, to suit 4/43, 4/44			
	4/46	Centrifugal Pump Body, S.L.G. Type—Port, fitted with 4/3 to 4/5, 4/7, 4/13, 4/23—CANCELLED			

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

WATER PUMP AND DRIVE—CENTRIFUGAL TYPE—Section 4

Part No.	Description	Plate No.	Part No.	Description
4/56	Centrifugal Pump Body, C.G. Type—Port ("X"=1.520"), fitted with 4/4, 4/5, 4/10, 4/13, 4/61 to 4/63	18	4/70	Ball Journal Bearing, for 4/64, 4/65, 4/68, 4/69
4/57	Centrifugal Pump Body, C.G. Type—Starboard ("X"=1.520"), fitted with 4/4, 4/5, 4/10, 4/13, 4/61 to 4/63		4/71	Pump Impeller Spring Collar
4/58	Centrifugal Pump Body, C.G. Type—Port ("Y"=1.166"), fitted with 4/4, 4/5, 4/10, 4/13, 4/61 to 4/63		4/72	Pump Impeller Spring
4/59	Centrifugal Pump Body, C.G. Type—Starboard ("Y"=1.166"), fitted with 4/4, 4/5, 4/10, 4/13, 4/61 to 4/63		4/73	Pump Spring Seating Bush, fitted with 4/74
4/60	Centrifugal Pump Body Cover, C.G. Type, fitted with 4/13, 4/61		4/74	Pump Spring Cone Washer, fitted with 4/73 (2 Pieces)
4/61	Centrifugal Pump Body Cover Packing, for 4/60		4/75	Water Pump Suction Connection, 1 $\frac{3}{8}$ " Bore, fitted with 4/13
4/62	Water Pump Gland		4/76	Water Pump Suction Connection, 1 $\frac{1}{2}$ " Gas, fitted with 4/13
4/63	Pump Body Grease Retaining Plate		4/77	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. \times 1 $\frac{5}{16}$ " long \times $\frac{5}{16}$ " Hex., fitted with 4/16, 4/17, for 4/75
4/64	Water Pump Impeller and Spindle—Port		4/78	Bolt, Hex. Head, $\frac{3}{8}$ " Wh. \times 2 $\frac{1}{2}$ " long \times $\frac{5}{16}$ " Hex., fitted with 4/16, 4/17, for 4/76
4/65	Water Pump Impeller and Spindle—Starboard		4/79	WATER PUMP ASSEMBLY, C.G. TYPE—PORT, ("Y"=1.166"), Comprising 4/8, 4/9, 4/58, 4/60, 4/64, 4/70 to 4/74
4/66	Water Pump Impeller—Port		4/80	WATER PUMP ASSEMBLY, C.G. TYPE—STARBOARD ("Y"=1.166"), Comprising 4/8, 4/9, 4/59, 4/60, 4/65, 4/70 to 4/74
4/67	Water Pump Impeller—Starboard		4/81	WATER PUMP ASSEMBLY, C.G. TYPE—PORT, ("X"=1.520"), Comprising 4/8, 4/9, 4/56, 4/60, 4/64, 4/70 to 4/74
4/68	Pump Impeller Spindle—Port		4/82	WATER PUMP ASSEMBLY, C.G. TYPE—STARBOARD ("X"=1.520"), Comprising 4/8, 4/9, 4/57, 4/60, 4/65, 4/70 to 4/74
4/69	Pump Impeller Spindle—Starboard		4/83	Ball Journal Bearing

Dimension "X" and "Y" must be carefully checked from the existing Pump and the appropriate Spare Part No. quoted to ensure correct replacement part being supplied

Dimension "X" and "Y" must be carefully checked from the existing Pump and the appropriate Spare Part No. quoted to ensure correct replacement part being supplied

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



WATER PUMP AND DRIVE—CENTRIFUGAL TYPE—Section 4

Plate No.	Part No.	Description	Plate No.	Part No.	Description
18	4/84	Gear Type Water Pump Driving Gear and Spindle			} Not Supplied Separately
	4/85	Gear Type Water Pump Driven Gear, fitted with 4/86			
	4/86	Gear Type Water Pump Driven Gear Bush			

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



WATER PUMP—RAM TYPE—3L3, 4L3, 5L3 ENGINES—Section 5

Part No.	Description	Plate No.	Part No.	Description
5/1	Water Pump Body, with Liner, fitted with 5/23, 5/31, 5/36 to 5/38, 5/40, 5/51, 5/54, 5/62, 5/72, 5/79, 5/80 } 3L3	19	5/17	Cup Washer Spacing Washer 5L3
5/2	Water Pump Body, with Liner, fitted with 5/23, 5/31, 5/36 to 5/38, 5/40, 5/51, 5/54, 5/63, 5/72, 5/79, 5/80 } 4L3		5/18	Cup Washer Clamp Bush 3L3, 4L3
5/3	Water Pump Body, fitted with 5/23, 5/31, 5/36 to 5/38, 5/40, 5/51, 5/54, 5/64, 5/72, 5/79, 5/80 } 5L3		5/19	Cup Washer Clamp Bush } 5L3
5/4	Water Pump Body Liner, 1½" Bore × 2" O.D. 3L3		5/20	Cup Washer Clamp Washer } 5L3
5/5	Water Pump Body Liner, 1½" Bore × 2" O.D. 4L3		5/21	Pump Ram Nut
5/6	Water Pump Ram Guide		5/22	Split Pin, ⅜" diam. × 1¼" long
5/7	Water Pump Ram, fitted with 5/9, 5/10, 5/18, 5/21, 5/22, 5/65 3L3		5/23	Pump Valve Seat
5/7	Water Pump Ram, fitted with 5/9, 5/10, 5/18, 5/21, 5/22, 5/60, 5/61, 5/66, 5/67 } 4L3		5/24	Pump Valve (same as 21/17)
5/8	Water Pump Ram, fitted with 5/9, 5/10, 5/21, 5/22, 5/68 to 5/71 5L3		5/25	Pump Valve Stop
5/9	Water Pump Ram Pin, fitted with 5/10		5/26	Pump Valve Spring
5/10	Split Pin, ⅜" diam. × 1" long		5/27	Pump Valve Coupling Bolt, fitted with 5/28, 5/29
5/11	Cup Washer, fitted with 5/12 } 3L3		5/28	Nut, Brass, ⅜" Wh. × ⅝" × ⅝" Hex.
5/12	Cup Washer Liner } (Superseded by 5/65, which will be supplied for replacements) 3L3		5/29	Split Pin, ⅝" diam. × 7⁄8" long
5/13	Cup Washer, fitted with 5/14 } 4L3		5/30	Snifter Valve Body, fitted with 5/31 to 5/33, 5/35 (Superseded. Part No. 5/83 will be supplied for replacements)
5/14	Cup Washer Liner } (Superseded by 5/66, which will be supplied for replacements) 4L3		5/31	Packing, Circular, 1" × ½" × 1⁄8", for 5/30, 5/81
5/15	Cup Washer, fitted with 5/16 } 5L3		5/32	Ball, ⅜" diam., for 5/30, 5/81
5/16	Cup Washer Liner } (Superseded by 5/68, which will be supplied for replacements) 5L3		5/33	Snifter Valve Screw, fitted with 5/35, for 5/30 (Superseded. Part No. 5/83 will be supplied for replacements)
			5/34	Packing, Circular, ⅝" × ⅜" × 1⁄8"

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



WATER PUMP—RAM TYPE—3L3, 4L3, 5L3 ENGINES—Section 5

Plate No.	Part No.	Description	Plate No.	Part No.	Description
19	5/35	Nut, Brass, $\frac{1}{8}$ " Gas $\times \frac{3}{16}$ " $\times \frac{5}{16}$ " Hex., for 5/33, 5/82 (Superseded. Part No. 5/83 will be supplied for replacements)	19	5/54	Packing for 5/53, 5/56
	5/36	Pump Body Drain Pipe, fitted with 5/37, 5/38		5/55	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times \frac{3}{4}$ " long $\times \frac{5}{16}$ " Hex.
	5/37	Disc, Leather, $\frac{15}{32}$ " diam. $\times \frac{1}{16}$ "		5/56	Pump Body Air Vessel, fitted with 5/54, 5/75, 5/77
	5/38	Screwed Cap, $\frac{1}{4}$ " Gas, fitted with 5/37		5/57	WATER PUMP—RAM TYPE—ASSEMBLY, Comprising 5/1, 5/6, 5/7, 5/9, 5/23 to 5/29, 5/36 to 5/43, 5/50 to 5/56, 5/74 to 5/80, 5/83 to 5/87
	5/39	Safety Valve Seat, fitted with 5/40 to 5/43		5/58	WATER PUMP—RAM TYPE—ASSEMBLY, Comprising 5/2, 5/6, 5/7, 5/9, 5/23 to 5/29, 5/36 to 5/43, 5/50 to 5/56, 5/74 to 5/80, 5/83 to 5/87
	5/40	Packing, Circular, $1" \times \frac{13}{32}" \times \frac{1}{16}"$		5/59	WATER PUMP—RAM TYPE—ASSEMBLY, Comprising 5/3, 5/6, 5/8, 5/9, 5/23 to 5/29, 5/36 to 5/43, 5/50 to 5/56, 5/74 to 5/80, 5/83 to 5/87
	5/41	Safety Valve, supplied only fitted with 5/39, 5/40, 5/43		5/60	Cup Washer Clamp Washer
	5/42	Safety Valve Spring		5/61	Cup Washer Spacing Washer
	5/43	Safety Valve Cover, supplied only fitted with 5/39 to 5/41		5/62	Water Pump Body Liner, $1\frac{1}{2}"$ Bore $\times 2\frac{3}{16}"$ O.D.
	5/44	Pipe Elbow, Brass, $1"$ bore $\times 2"$ centres, fitted with 5/51		5/63	Water Pump Body Liner, $1\frac{3}{4}"$ Bore $\times 2\frac{3}{16}"$ O.D.
	5/45	Flange, Oval, Brass, $1"$ bore $\times 2"$ centres $\times 1\frac{5}{8}"$ wide, fitted with 5/51	} See Notes on Plate No. 19	5/64	Water Pump Body Liner, $2"$ Bore $\times 2\frac{3}{16}"$ O.D.
	5/46	Setscrew, Hex. Head, $\frac{5}{16}"$ Wh. $\times \frac{7}{8}"$ long $\times \frac{5}{16}"$ Hex.		5/65	Cup Washer
	5/47	Pipe Elbow, Cast Iron, $1"$ Gas "F." $\times 2"$ centres, fitted with 5/51	} See Notes on Plate No. 19	5/66	Cup Washer
	5/48	Setscrew, Hex. Head, $\frac{5}{16}"$ Wh. $\times 1"$ long $\times \frac{5}{16}"$ Hex.		5/67	Cup Washer Clamp Bush
	5/49	Flange, Oval, Cast Iron, $1"$ Gas $\times 2"$ centres $\times 1\frac{5}{8}"$ wide, fitted with 5/51	} See Notes on Plate No. 19	5/68	Cup Washer
	5/50	Setscrew, Hex. Head, $\frac{5}{16}"$ Wh. $\times 1\frac{1}{2}"$ long $\times \frac{5}{16}"$ Hex.		5/69	Cup Washer Clamp Bush
	5/51	Packing, Oval, $2"$ centres $\times 1\frac{5}{8}"$ wide		5/70	Cup Washer Spacing Washer
	5/52	Flange, Oval, Blank, $2"$ centres $\times 1\frac{5}{8}"$ wide, fitted with 5/51		5/71	Cup Washer Clamp Washer
	5/53	Pump Body Cover, fitted with 5/54, 5/74, 5/76		5/72	Lubricator, $\frac{1}{8}"$ Gas
				5/73	Cap Nut, $\frac{1}{8}"$ B.S.P. $\times \frac{5}{16}"$ Hex., for 5/82 (Superseded. Part No. 5/83 will be supplied for replacements)

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

WATER PUMP—RAM TYPE—3L3, 4L3, 5L3 ENGINES—Section 5

Part No.	Description	Plate No.	Part No.	Description
5/74	Packing, Circular, $\frac{11}{16}'' \times \frac{1}{2}'' \times \frac{1}{16}''$, for 5/76			
5/75	Packing, Circular, $1\frac{1}{16}'' \times \frac{33}{32}'' \times \frac{1}{32}''$, for 5/77			
5/76	Plug, Hex. Head, $\frac{1}{4}''$ Gas $\times \frac{3}{8}'' \times \frac{3}{8}''$ Hex., fitted with 5/74			
5/77	Plug, Sq. Hole, $\frac{1}{2}''$ Gas, fitted with 5/75			
5/78	Suction Air Vessel, fitted with 5/51, 5/75, 5/77			
5/79	Stud, $\frac{5}{16}''$ Wh. $\times 4\frac{2}{16}''$ long, fitted with 5/80			
5/80	Nut, Brass, $\frac{5}{16}''$ Wh. $\times \frac{5}{16}'' \times \frac{1}{4}''$ Hex.			
5/81	Snifter Valve Body, fitted with 5/31, 5/32, 5/35, 5/73, 5/82 (Superseded. Part No. 5/83 will be supplied for replacements)			
5/82	Snifter Valve Screw, fitted with 5/35, 5/73, for 5/81 (Superseded. Part No. 5/83 will be supplied for replacements)			
5/83	Snifter Valve Body, fitted with 5/84 to 5/87			These items are not supplied separately
5/84	Cap Nut, $\frac{1}{4}''$ -40 Thds. $\times \frac{3}{16}''$ Hex., for 5/85			
5/85	Snifter Valve Screw, fitted with 5/84, 5/86, for 5/83			
5/86	Nut, Brass, $\frac{1}{4}''$ -40 Thds. $\times \frac{5}{32}'' \times \frac{3}{16}''$ Hex., for 5/85			
5/87	Ball, $\frac{1}{8}''$ diam., for 5/83			

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.



WATER PUMP—RAM TYPE—3L3, 4L3, 5L3 ENGINES—Section 5

Plate No.	Part No.	Description	Plate No.	Part No.	Description
					3174 Packing Circular $\frac{1}{2}$ " x $\frac{1}{2}$ " for 3170
					3173 Packing Circular $\frac{1}{2}$ " x $\frac{1}{2}$ " for 3172
					3172 Plug Hex Head $\frac{1}{2}$ " Dia x $\frac{1}{2}$ " x $\frac{1}{2}$ " Hex, fitted with 3174
					3171 Plug Hex Head $\frac{1}{2}$ " Dia, fitted with 3173
					3170 Section Air Vessel, fitted with 3171, 3172, 3173
					3169 Stud $\frac{1}{2}$ " Wt. x $\frac{1}{2}$ " long, fitted with 3170
					3168 Nut Hex $\frac{1}{2}$ " Wt. x $\frac{1}{2}$ " x $\frac{1}{2}$ " Hex
					3167 Buffer Valve Body, fitted with 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 3271, 3272, 3273, 3274, 3275, 3276, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3296, 3297, 3298, 3299, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3308, 3309, 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, 3338, 3339, 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347, 3348, 3349, 3350, 3351, 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000
					3166 Cap Nut $\frac{1}{2}$ "-40 Thread x $\frac{1}{2}$ " Hex, for 3165
					3165 Buffer Valve Spring, fitted with 3166, for 3164
					3164 Nut Hex $\frac{1}{2}$ "-40 Thread x $\frac{1}{2}$ " Hex, for 3163
					3163 Ball $\frac{1}{2}$ " diam., for 3162

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

WATER PUMP—RAM TYPE—6L3, 8L3 ENGINES—Section 6

Part No.	Description	Plate No.	Part No.	Description
6/1	Water Pump Body, with Liner, fitted with 6/20, 6/28, 6/33 to 6/35, 6/47, 6/50, 6/55, 6/59, 6/68, 6/69	20	6/17	Cup Washer Clamp Washer (Supplied only with 6/13, 6/15) 8L3
6/2	Water Pump Body, fitted with 6/20, 6/28, 6/33 to 6/35, 6/47, 6/50, 6/56, 6/59, 6/68, 6/69		6/18	Pump Ram Nut
6/3	Water Pump Body Liner, 2½" Bore × 2½" O.D. 6L3		6/19	Split Pin, ⅜" diam. × 1¼" long
6/4	Water Pump Ram Guide		6/20	Pump Valve Seat
6/5	Water Pump Ram, fitted with 6/6, 6/7, 6/12, 6/14, 6/16, 6/18, 6/19, 6/57 . . 6L3		6/21	Pump Valve (same as 21/18)
6/5	Water Pump Ram, fitted with 6/6, 6/7, 6/13, 6/15, 6/17 to 6/19, 6/58 . . 8L3		6/22	Pump Valve Stop
6/6	Water Pump Ram Pin, fitted with 6/7		6/23	Pump Valve Spring
6/7	Split Pin, ⅜" diam. × 1" long		6/24	Pump Valve Coupling Bolt, fitted with 6/25, 6/26
6/8	Cup Washer, fitted with 6/9	6L3	6/25	Nut, Brass, 7/16" Wh. × ⅜" × ⅜" Hex.
6/9	Cup Washer Liner		6/26	Split Pin, ⅜" diam. × 1" long
6/10	Cup Washer, fitted with 6/11	8L3	6/27	Snifter Valve Body, fitted with 6/28 to 6/30, 6/32 (Superseded. Part No. 6/76 will be supplied for replacements)
6/11	Cup Washer Liner		6/28	Packing, Circular, 1" × ⅜" × ⅜", for 6/27, 6/74
6/12	Cup Washer Spacing Washer 6L3		6/29	Ball, ¼" diam., for 6/27, 6/74
6/13	Cup Washer Spacing Washer (Supplied only with 6/15, 6/17) 8L3		6/30	Snifter Valve Screw, fitted with 6/32, for 6/27 (Superseded. Part No. 6/76 will be supplied for replacements)
6/14	Cup Washer Clamp Bush 6L3		6/31	Packing, Circular, ⅝" × ⅝" × ⅝"
6/15	Cup Washer Clamp Bush (Supplied only with 6/13, 6/17) 8L3		6/32	Nut, Brass, ⅜" Gas × ⅜" × ⅜" Hex., for 6/30, 6/75 (Superseded. Part No. 6/76 will be supplied for replacements)
6/16	Cup Washer Clamp Washer 6L3		6/33	Pump Body Drain Pipe, fitted with 6/34, 6/35
			6/34	Disc, Leather, ⅜" diam. × ⅜" thick

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

WATER PUMP—RAM TYPE—6L3, 8L3 ENGINES—Section 6

Plate No.	Part No.	Description		Plate No.	Part No.	Description
20	6/35	Screwed Cap, $\frac{3}{8}$ " Gas, fitted with 6/34		20	6/52	Pump Body Air Vessel, fitted with 6/37, 6/50, 6/62, 6/65
	6/36	Safety Valve Seat, fitted with 6/37 to 6/40			6/53	WATER PUMP—RAM TYPE—ASSEMBLY, Comprising 6/1, 6/4 to 6/6, 6/21 to 6/26, 6/33 to 6/40, 6/48 to 6/52, 6/61 to 6/66, 6/69 to 6/73, 6/76 to 6/80
	6/37	Packing, Circular, $1\frac{1}{4}$ " \times $\frac{11}{16}$ " \times $\frac{1}{16}$ "			6/54	WATER PUMP—RAM TYPE—ASSEMBLY, Comprising 6/2, 6/4 to 6/6, 6/21 to 6/26, 6/33 to 6/40, 6/48 to 6/52, 6/61 to 6/66, 6/69 to 6/73, 6/76 to 6/80
	6/38	Safety Valve, supplied only fitted with 6/36, 6/37, 6/40			6/55	Water Pump Body Liner, $2\frac{1}{2}$ " Bore \times $2\frac{11}{16}$ " O.D.
	6/39	Safety Valve Spring			6/56	Water Pump Body Liner, $2\frac{1}{2}$ " Bore \times $2\frac{11}{16}$ " O.D.
	6/40	Safety Valve Cover, supplied only fitted with 6/36 to 6/38			6/57	Cup Washer
	6/41	Pipe Elbow, Brass, $1\frac{1}{4}$ " bore \times $2\frac{1}{2}$ " centres, fitted with 6/47	} See Notes on Plate No. 20		6/58	Cup Washer
	6/42	Pipe Elbow, Cast Iron, $1\frac{1}{4}$ " Gas "F." \times $2\frac{1}{2}$ " centres, fitted with 6/47			6/59	Lubricator, $\frac{1}{8}$ " Gas
	6/43	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times 1" long \times $\frac{3}{8}$ " Hex.			6/60	Cap Nut, $\frac{1}{8}$ " B.S.P. \times $\frac{5}{16}$ " Hex., for 6/75 (Superseded. Part No. 6/76 will be supplied for replacements)
	6/44	Flange, Oval, Brass, $1\frac{1}{4}$ " bore \times $2\frac{1}{2}$ " centres \times $2\frac{1}{8}$ " wide, fitted with 6/47	} See Notes on Plate No. 20		6/61	Packing, Circular, $\frac{11}{16}$ " \times $\frac{1}{2}$ " \times $\frac{1}{16}$ ", for 6/64
	6/45	Flange, Oval, Cast Iron, $1\frac{1}{4}$ " Gas \times $2\frac{1}{2}$ " centres \times $2\frac{1}{4}$ " wide, fitted with 6/47			6/62	Packing, Circular, $1\frac{1}{16}$ " \times $\frac{25}{32}$ " \times $\frac{1}{32}$ ", for 6/65
	6/46	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{3}{4}$ " long \times $\frac{3}{8}$ " Hex.			6/63	Packing, Circular, $1\frac{3}{8}$ " \times $1\frac{1}{16}$ " \times $\frac{1}{32}$ ", for 6/66
	6/47	Packing, Oval, $2\frac{1}{2}$ " centres \times $2\frac{1}{8}$ " wide			6/64	Plug, Hex. Head, $\frac{1}{4}$ " Gas \times $\frac{3}{8}$ " \times $\frac{3}{8}$ " Hex., fitted with 6/61
	6/48	Flange, Cast Iron, Blank, $2\frac{1}{2}$ " centres \times $2\frac{1}{4}$ " wide, fitted with 6/47			6/65	Plug, Sq. Hole, $\frac{1}{2}$ " Gas, fitted with 6/62
	6/49	Pump Body Cover, fitted with 6/50, 6/61, 6/64			6/66	Plug, Sq. Hole, $1\frac{1}{8}$ "—16 Thds., fitted with 6/63
	6/50	Packing for 6/49, 6/52			6/67	Suction Air Vessel, fitted with 6/47, 6/63, 6/66 (Superseded by 6/70, which will be supplied for replacements)
	6/51	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times 1" long \times $\frac{3}{8}$ " Hex.			6/68	Stud, $\frac{3}{8}$ " Wh. \times $5\frac{1}{16}$ " long, fitted with 6/69, for 6/67

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WATER PUMP—RAM TYPE—6L3, 8L3 ENGINES—Section 6

Part No.	Description	Plate No.	Part No.	Description
6/69	Nut, Brass, $\frac{3}{8}$ " Wh. \times $\frac{3}{8}$ " \times $\frac{5}{16}$ " Hex.			
6/70	Suction Air Vessel, fitted with 6/47, 6/63, 6/66			
6/71	Stud, $\frac{3}{8}$ " Wh. \times $4\frac{1}{2}$ " long, fitted with 6/69, for 6/70			
6/72	Flange, Brass, Blank, $2\frac{1}{2}$ " centres \times $2\frac{1}{8}$ " wide, fitted with 6/47			
6/73	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $\frac{7}{8}$ " \times $\frac{5}{16}$ " Hex.			
6/74	Snifter Valve Body, fitted with 6/28, 6/29, 6/32, 6/60, 6/75 (Superseded. Part No. 6/76 will be supplied for replacements)			
6/75	Snifter Valve Screw, fitted with 6/32, 6/60, for 6/74 (Superseded. Part No. 6/76 will be supplied for replacements)			
6/76	Snifter Valve Body, fitted with 6/77 to 6/80			
6/77	Cap Nut, $\frac{1}{4}$ "-40 Thds. \times $\frac{3}{16}$ " Hex., for 6/78			These items are not supplied separately
6/78	Snifter Valve Screw, fitted with 6/77, 6/79			
6/79	Nut, Brass, $\frac{1}{4}$ "-40 Thds. \times $\frac{5}{32}$ " \times $\frac{3}{16}$ " Hex., for 6/78			
6/80	Ball, $\frac{1}{8}$ " diam., for 6/76			

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BILGE PUMP—RAM TYPE AND BILGE PUMP DRIVE—Section 7

Part No.	Description	Plate No.	Part No.	Description
7/1	Bilge Pump Body—Port, fitted with 7/15, 7/23, 7/28 to 7/30, 7/32, 7/43, 7/48, 7/49, 7/51, 7/91	21	7/18	Pump Valve Spring
7/2	Bilge Pump Body—Starboard, fitted with 7/15, 7/23, 7/28 to 7/30, 7/32, 7/43, 7/91		7/19	Pump Valve Coupling Bolt, fitted with 7/20, 7/21
7/3	Pump Ram Guide—Port		7/20	Nut, Brass, $\frac{5}{16}$ " Wh. \times $\frac{5}{16}$ " \times $\frac{5}{16}$ " Hex.
7/4	Pump Ram Guide—Starboard		7/21	Split Pin, $\frac{5}{8}$ " diam. \times $\frac{7}{8}$ " long
7/5	Pump Ram, fitted with 7/6, 7/7, 7/10 to 7/14, 7/90		7/22	Snifter Valve Body, fitted with 7/23 to 7/25, 7/27 (Superseded. Part No. 7/101 will be supplied for replacements)
7/6	Ram Pin, fitted with 7/7		7/23	Packing, Circular, 1" \times $\frac{1}{2}$ " \times $\frac{1}{16}$ ", for 7/22, 7/99
7/7	Split Pin, $\frac{3}{32}$ " diam. \times $\frac{7}{8}$ " long		7/24	Ball, $\frac{3}{16}$ " diam., for 7/22, 7/99
7/8	Cup Washer, fitted with 7/9		7/25	Snifter Valve Screw, fitted with 7/27, for 7/22 (Superseded. Part No. 7/101 will be supplied for replacements)
7/9	Cup Washer Liner		7/26	Packing, Circular, $\frac{5}{8}$ " \times $\frac{3}{8}$ " \times $\frac{1}{8}$ "
7/10	Cup Washer Clamp Bush		7/27	Nut, Brass, $\frac{1}{8}$ " Gas \times $\frac{3}{16}$ " \times $\frac{5}{16}$ " Hex., for 7/25, 7/100 (Superseded. Part No. 7/101 will be supplied for replacements)
7/11	Cup Washer Spacing Washer		7/28	Pump Body Drain Pipe, fitted with 7/29, 7/30
7/12	Ram Clamp Washer		7/29	Disc, Leather, $\frac{11}{32}$ " diam. \times $\frac{1}{16}$ " thick
7/13	Ram Nut		7/30	Screwed Cap, $\frac{1}{4}$ " Gas, fitted with 7/29
7/14	Split Pin, $\frac{3}{32}$ " diam. \times 1 $\frac{1}{4}$ " long		7/31	Safety Valve Seat, fitted with 7/32 to 7/35
7/15	Pump Valve Seat		7/32	Packing, Circular, 1" \times $\frac{11}{32}$ " \times $\frac{1}{16}$ "
7/16	Pump Valve (same as 21/19)		7/33	Safety Valve, supplied only fitted with 7/31, 7/32, 7/35
7/17	Pump Valve Stop		7/34	Safety Valve Spring
		7/35	Safety Valve Cover, supplied only fitted with 7/31 to 7/33	

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BILGE PUMP—RAM TYPE AND BILGE PUMP DRIVE—Section 7

Plate No.	Part No.	Description	Plate No.	Part No.	Description
21	7/36	Pipe Elbow, Cast Iron, 1" Gas "F."×2" centres, fitted with 7/43	21	7/54	Bilge Pump Box—Port, fitted with 7/53, 7/56, 7/57, 7/61, 7/62, 7/93, 7/96
	7/37	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.×1" long× $\frac{5}{16}$ " Hex., for 7/36		7/55	Bilge Pump Box—Starboard, fitted with 7/53, 7/56, 7/57, 7/61, 7/62, 7/93, 7/96
	7/38	Pipe Elbow, Brass, 1" Gas "F."×2" centres, fitted with 7/43		7/56	Stud, $\frac{5}{16}$ " Wh.×1 $\frac{1}{4}$ " long, fitted with 7/57
	7/39	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.× $\frac{7}{8}$ " long× $\frac{5}{16}$ " Hex., for 7/38, 7/75, 7/76		7/57	Nut, Steel, $\frac{5}{16}$ " Wh.× $\frac{5}{16}$ "× $\frac{5}{16}$ " Hex.
	7/40	Flange, Oval, Cast Iron, 1" Gas×2" centres×1 $\frac{5}{8}$ " wide, fitted with 7/43		7/58	Bilge Pump Box Packing (cancelled)
	7/41	Flange, Oval, Brass, 1" Gas×2" centres×1 $\frac{5}{8}$ " wide, fitted with 7/43		7/59	Bilge Pump Box Cover, fitted with 7/60, 7/61
	7/42	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.×1 $\frac{1}{2}$ " long× $\frac{5}{16}$ " Hex., for 7/40, 7/41		7/60	Steady Peg, $\frac{5}{16}$ " diam.× $\frac{3}{4}$ " long
	7/43	Packing, Oval, 2" centres×1 $\frac{5}{8}$ " wide		7/61	Bilge Pump Box Cover Packing
	7/44	Pipe Elbow, Cast Iron, 1" Gas "F."×2" centres, fitted with 7/43		7/62	Ball Bearing, 1 $\frac{1}{4}$ " bore (same as 3/21)
	7/45	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.×1" long× $\frac{5}{16}$ " Hex., for 7/44		7/63	Setscrew, Hex. Head, $\frac{1}{4}$ " Wh.× $\frac{5}{8}$ " long× $\frac{1}{4}$ " Hex.
	7/46	Pipe Elbow, Brass, 1" Gas "F."×2" centres, fitted with 7/43		7/64	Bilge Pump Eccentric
	7/47	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.× $\frac{7}{8}$ " long× $\frac{5}{16}$ " Hex., for 7/46, 7/77, 7/78		7/65	Bilge Pump Eccentric Clip
	7/48	Stud, $\frac{5}{16}$ " Wh.×1 $\frac{1}{8}$ " long, fitted with 7/49		7/66	Bilge Pump Eccentric Thrust Collar
	7/49	Nut, Steel, $\frac{5}{16}$ " Wh.× $\frac{5}{16}$ "× $\frac{5}{16}$ " Hex.		7/67	Bilge Pump Clutch Body, fitted with 7/69
	7/50	Pump Delivery Air Vessel, fitted with 7/51, 7/95, 7/98		7/68	Bilge Pump Clutch Disengaging Spring
	7/51	Packing for 7/50, 7/52		7/69	Bilge Pump Clutch Disengaging Spring Cap
	7/52	Pump Body Cover, fitted with 7/51, 7/94, 7/97		7/70	Bilge Pump Clutch Spring Sleeve
	7/53	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh.× $\frac{3}{4}$ " long× $\frac{5}{16}$ " Hex.		7/71	Bilge Pump Clutch Spring

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BILGE PUMP—RAM TYPE AND BILGE PUMP DRIVE—Section 7

Part No.	Description	Plate No.	Part No.	Description
7/72	Ball Thrust Washer, $\frac{5}{16}$ " bore	21	7/89	BILGE PUMP BOX AND DRIVE ASSEMBLY, Comprising 7/53, 7/55 to 7/64, (7/66 to 7/74) or (7/66 to 7/69, 7/71, 7/72, 7/82 to 7/85, 7/93, 7/96) } Starboard
7/73	Bilge Pump Clutch Operating Hand Wheel		7/90	
7/74	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. $\times \frac{7}{8}$ " long $\times \frac{5}{16}$ " Hex.		7/91	Lubricator, $\frac{1}{8}$ " Gas
7/75	Flange, Oval, Brass, 1" bore \times 2" centres \times $1\frac{5}{8}$ " wide, fitted with 7/43		7/92	Cap Nut, $\frac{1}{8}$ " B.S.P. $\times \frac{5}{16}$ " Hex., for 7/100 (Superseded. Part No. 7/101 will be supplied for replacements)
7/76	Pipe Elbow, Brass, 1" bore \times 2" centres, fitted with 7/43		7/93	Chain Inspection Door Packing, for 7/96
7/77	Flange, Oval, Brass, 1" bore \times 2" centres \times $1\frac{5}{8}$ " wide, fitted with 7/43		7/94	Packing, Circular, $\frac{11}{16}$ " $\times \frac{1}{2}$ " $\times \frac{1}{16}$ ", for 7/97
7/78	Pipe Elbow, Brass, 1" bore \times 2" centres, fitted with 7/43		7/95	Packing, Circular, $1\frac{1}{16}$ " $\times \frac{25}{32}$ " $\times \frac{1}{32}$ ", for 7/98
7/79	Flange, Oval, Cast Iron, 1" Gas \times 2" centres \times $1\frac{5}{8}$ " wide, fitted with 7/43		7/96	Chain Inspection Door, fitted with 7/93
7/80	Flange, Oval, Brass, 1" Gas \times 2" centres \times $1\frac{5}{8}$ " wide, fitted with 7/43		7/97	Plug, Hex. Head, $\frac{1}{4}$ " Gas $\times \frac{3}{8}$ " $\times \frac{3}{8}$ " Hex., fitted with 7/94
7/81	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $1\frac{1}{2}$ " long $\times \frac{5}{16}$ " Hex., for 7/79, 7/80		7/98	Plug, Sq. Hole, $\frac{1}{2}$ " Gas, fitted with 7/95
7/82	Bilge Pump Clutch Spring Sleeve		7/99	Snifter Valve Body, fitted with 7/23, 7/24, 7/27, 7/92, 7/100 (Superseded. Part No. 7/101 will be supplied for replacements)
7/83	Bilge Pump Clutch Operating Hand Wheel		7/100	Snifter Valve Screw, fitted with 7/27, 7/92 (Superseded. Part No. 7/101 will be supplied for replacements)
7/84	Bilge Pump Clutch Handwheel Distance Piece		7/101	Snifter Valve Body, fitted with 7/102 to 7/105
7/85	Setscrew, Headless, O.B.A. $\times \frac{11}{16}$ " long		7/102	Cap Nut, $\frac{1}{4}$ "-40 Thds., $\times \frac{3}{16}$ " Hex., for 7/103
7/86	BILGE PUMP ASSEMBLY, Comprising 7/1, 7/3, 7/5, 7/6, 7/10 to 7/21, 7/28 to 7/35, 7/48 to 7/53, 7/90, 7/94, 7/95, 7/97, 7/98, 7/101 to 7/105 } Port		7/103	Snifter Valve Screw, fitted with 7/102, 7/104
7/87	BILGE PUMP ASSEMBLY, Comprising 7/2, 7/4, 7/5 to 7/7, 7/10 to 7/21, 7/28 to 7/35, 7/48 to 7/53, 7/90, 7/94, 7/95, 7/97, 7/98, 7/101 to 7/105 } Starboard		7/104	Nut, Brass, $\frac{1}{4}$ "-40 Thds. $\times \frac{5}{32}$ " $\times \frac{3}{16}$ " Hex., for 7/103
7/88	BILGE PUMP BOX AND DRIVE ASSEMBLY, Comprising 7/53, 7/54, 7/56 to 7/64, (7/66 to 7/74) or (7/66 to 7/69, 7/71, 7/72, 7/82 to 7/85, 7/93, 7/96) } Port		7/105	Ball, $\frac{1}{8}$ " diam., for 7/101

These items are not supplied separately

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BILGE PUMP—RAM TYPE AND BILGE PUMP DRIVE—Section 7

Plate No.	Part No.	Description	Plate No.	Part No.	Description
		BILGE PUMP ASSEMBLY, Comprising 7102 to 7109			BILGE PUMP ASSEMBLY, Comprising 7102 to 7109
	7102	Ball Valve			Ball Valve
	7103	Cap Nut 1/4" Dia. x 1/2" Hex. for 7102			Cap Nut 1/4" Dia. x 1/2" Hex. for 7102
	7104	Ball Valve Stem, Ground with 7102, 7103			Ball Valve Stem, Ground with 7102, 7103
	7105	Cap Nut 1/4" Dia. x 1/2" Hex. for 7104			Cap Nut 1/4" Dia. x 1/2" Hex. for 7104
	7106	Ball Valve Stem, Ground with 7104, 7105			Ball Valve Stem, Ground with 7104, 7105
	7107	Cap Nut 1/4" Dia. x 1/2" Hex. for 7106			Cap Nut 1/4" Dia. x 1/2" Hex. for 7106
	7108	Ball Valve Stem, Ground with 7107, 7108			Ball Valve Stem, Ground with 7107, 7108
	7109	Cap Nut 1/4" Dia. x 1/2" Hex. for 7109			Cap Nut 1/4" Dia. x 1/2" Hex. for 7109
		BILGE PUMP DRIVE ASSEMBLY, Comprising 7110 to 7117			BILGE PUMP DRIVE ASSEMBLY, Comprising 7110 to 7117
	7110	Shaft, 1/2" Dia. x 1/2" Long			Shaft, 1/2" Dia. x 1/2" Long
	7111	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7112	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7113	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7114	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7115	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7116	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick
	7117	Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick			Flange, Oval, 1/2" Dia. x 1/2" Cent. x 1/2" Thick

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CRANKSHAFT, DAMPER, DIRECT STARTING, CONNECTING ROD, PISTON, FLYWHEEL AND FLEXIBLE COUPLING—Section 8

Part No.	Description	Plate No.	Part No.	Description
8/1	Crankshaft—Non-Roller Bearing Type—fitted with 8/8, 8/10, 8/11, 8/63 to 8/66	22	8/18	Castle Nut, $\frac{7}{16}$ " B.S.F. } Split Pin, $\frac{3}{32}$ " diam. \times 1" long }
8/2	Crankshaft—Non-Roller Bearing Type—fitted with 8/8, 8/10, 8/11		8/19	
8/3	Crankshaft—Non-Roller Bearing Type—fitted with 8/9 to 8/11		8/20	Damper Bush 7L3, 8L3 Marine Engines only
8/4	Crankshaft—Non-Roller Bearing Type—fitted with 8/9 to 8/11		8/21	Damper Bush Clamp Flange, for 8/20, 8/67
8/5	Crankshaft—Non-Roller Bearing Type—fitted with 8/9 to 8/11		8/22	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{3}{8}$ " Hex., for 8/20, 8/67 } 7L3, 8L3 only
8/6	Crankshaft—Non-Roller Bearing Type—fitted with 8/9 to 8/11		8/23	
8/7	Crankshaft Chain Sprocket		8/24	Starting Handle, Anti-clockwise Rotation
8/8	Feather Key, $\frac{7}{16}$ " \times $\frac{5}{16}$ " \times $1\frac{3}{16}$ " 3L3, 4L3	8/25	Handle Peg	
8/9	Chain Sprocket and Damper Key 5L3, 6L3, 7L3, 8L3	8/26	Handle Peg Guard, fitted with 8/27	
8/10	Chain Sprocket Retaining Nut, fitted with 8/11	8/27	Grub Screw, $\frac{7}{16}$ " Wh. \times $\frac{3}{16}$ " long	
8/11	Setscrew, Cheese Head, Pointed, 1B.A. \times $\frac{1}{16}$ " long	8/28	CONNECTING ROD ASSEMBLY, Comprising 8/29 to 8/36	
8/12	Crankshaft Vibration Damper Body	8/29	Big End Bearing (Upper and Lower Halves not supplied separately)	
8/13	Damper Ring	8/29US	Big End Bearing (Upper and Lower Halves not supplied separately) <small>(Undersize required MUST be specified)</small>	
8/14	Damper Spring	8/30	Steady Peg, $\frac{1}{4}$ " diam. \times $\frac{3}{4}$ " long	
8/15	Damper Friction Washer	8/31	Connecting Rod Shim Plate, fitted with 8/32	
8/16	Damper Flange	8/32	Shim Plate Peg	
8/17	Damper Bolt, fitted with 8/18, 8/19	8/33	Connecting Rod Bolt, fitted with 8/34, 8/35	
		8/34	Connecting Rod Bolt Nut	

When ordering it is IMPORTANT to quote the Number of the Engine, and also the Number of the Part.

CRANKSHAFT, DAMPER, DIRECT STARTING, CONNECTING ROD, PISTON, FLYWHEEL AND FLEXIBLE COUPLING—Section 8

Plate No.	Part No.	Description	Plate No.	Part No.	Description
22	8/35	Split Pin, $\frac{3}{32}$ " diam. \times $1\frac{1}{4}$ " long	22	8/53	Split Pin, $\frac{1}{8}$ " diam. \times $1\frac{1}{4}$ " long
	8/36	Piston Pin Bush		8/54	Flexible Coupling Bush, Cast Iron—Cancelled
	8/37	Piston—5 Groove, less 8/38, 8/40, 8/41, 8/72, 8/82 or 8/83 (Superseded by 8/88, which will be supplied for replacements)		8/55	Flexible Coupling Bolt, fitted with 8/56, 8/57
	8/38	Piston Ring, $\frac{1}{8}$ " wide—Hardened		8/56	Nut, Steel, $\frac{9}{16}$ " B.S.F. \times $\frac{9}{16}$ " \times $\frac{1}{2}$ " Hex.
	8/39	Scraper Ring (Superseded by 8/82 or 8/83, which will be supplied for replacements)		8/57	Split Pin, $\frac{3}{32}$ " diam. \times 1" long
	8/40	Piston Pin, fitted with 8/41		8/58	Flywheel—Electric Starting Type, fitted with 8/59, 8/60 (Design to Suit Installation)
	8/41	Piston Pin Pad		8/59	Flywheel Gear Ring
	8/42	Flywheel—Plain (Design to Suit Installation)		8/60	Steady Peg, $\frac{5}{16}$ " diam. \times $1\frac{1}{16}$ " long
	8/43	Flywheel Coupling Bolt, $\frac{3}{4}$ " Wh. \times $3\frac{3}{4}$ " long, fitted with 8/44, 8/45		8/61	Flywheel Coupling Bolt, $\frac{3}{4}$ " Wh. \times 4" long, fitted with 8/44, 8/45
	8/44	Nut, Steel, $\frac{3}{4}$ " Wh. \times $\frac{3}{4}$ " \times $\frac{3}{4}$ " Hex.		8/62	Flywheel Coupling Stud, $\frac{3}{4}$ " Wh. \times $4\frac{1}{2}$ " long, fitted with 8/44, 8/45
	8/45	Split Pin, $\frac{1}{8}$ " diam. \times $1\frac{1}{4}$ " long		8/63	Crankshaft Balance Weight
	8/46	Flywheel—Flexible Coupling Type (Design to Suit Installation)		8/64	Crankshaft Balance Weight Stud, fitted with 8/65, 8/66
	8/47	Flywheel Coupling Bolt, $\frac{3}{4}$ " B.S.F. \times $2\frac{3}{8}$ " long, fitted with 8/48, 8/49		8/65	Castle Nut, $\frac{5}{8}$ " B.S.F.
	8/48	Nut, Steel, $\frac{3}{4}$ " B.S.F. \times $\frac{3}{4}$ " \times $\frac{5}{8}$ " Hex.		8/66	Split Pin, $\frac{1}{8}$ " diam. \times $1\frac{1}{4}$ " long
	8/49	Split Pin, $\frac{1}{8}$ " diam. \times $1\frac{1}{4}$ " long		8/67	Damper Bush 7L3, 8L3 Stationary Engine
	8/50	Flexible Coupling, fitted with 8/51 to 8/53, 8/55 to 8/57, 8/79		8/68	Flywheel Coupling Bolt, $\frac{3}{4}$ " B.S.F. \times $2\frac{7}{8}$ " long, fitted with 8/45, 8/69
	8/51	Flexible Coupling Stud, fitted with 8/52, 8/53		8/69	Nut, Steel, $\frac{3}{4}$ " B.S.F. \times $\frac{3}{4}$ " \times $\frac{5}{8}$ " Hex.
	8/52	Nut, Steel, $\frac{3}{4}$ " B.S.F. \times $\frac{3}{4}$ " \times $\frac{5}{8}$ " Hex.		8/70	Flexible Coupling Bush, Fibre—Cancelled

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CRANKSHAFT, DAMPER, DIRECT STARTING, CONNECTING ROD, PISTON, FLYWHEEL AND FLEXIBLE COUPLING—Section 8

Part No.	Description	Plate No.	Part No.	Description
8/71	PISTON—5 GROOVE—ASSEMBLY, Comprising 8/37, 8/39 to 8/41, 8/72, 8/78 (Superseded by 8/84 or 8/85, which will be supplied for replacements)		8/85	PISTON—5 GROOVE—ASSEMBLY, Comprising 8/37 8/40, 8/41, 8/72, 8/78, 8/83 (Superseded by 8/90, which will be supplied for replacements)
8/72	Piston Ring, $\frac{3}{32}$ " Wide—Unhardened		8/86	Scraper Ring, to suit 3 Groove Piston for Engines with Centrifugal Water Pump
8/73	CRANKSHAFT DAMPER ASSEMBLY, Comprising 8/12 to 8/19		8/87	Scraper Ring, to suit 3 Groove Piston for Engines with Ram Type Water Pump
8/74	CRANKSHAFT DAMPER ASSEMBLY, Comprising 8/12 to 8/19, 8/20 or 8/67, 8/21, 8/22		8/88	Piston—3 Groove, less 8/40, 8/41, 8/78, 8/86
8/75	Piston Ring, .145" Wide—Hardened (oversize in width)		8/89	PISTON—3 GROOVE—ASSEMBLY, Comprising 8/40, 8/41, 8/78, 8/86, 8/88
8/76	Piston Ring, $\frac{5}{32}$ " Wide—Hardened (oversize in width)		8/90	PISTON—3 GROOVE—ASSEMBLY, Comprising 8/40, 8/41, 8/78, 8/87, 8/88
8/77	Piston Ring, $\frac{3}{32}$ " Wide—Hardened		8/91	Piston—3 Groove, less 8/40, 8/41, 8/78, 8/87
8/78	Piston Ring, $\frac{1}{8}$ " Wide, Chromium Plated		8/92	Crankshaft (Roller Bearing Type), fitted with 8/8, 8/63 to 8/66, 8/97, 8/98
8/79	Flexible Coupling Bush—Gun Metal		8/93	Crankshaft (Roller Bearing Type) fitted with 8/8, 8/97, 8/98
8/80	Piston Ring, .145" wide, Chromium Plated (Standard Cylinder Bore and oversize in width)		8/94	Crankshaft (Roller Bearing Type), fitted with 8/9, 8/97, 8/98
8/81	Piston Ring, $\frac{5}{32}$ " wide, Chromium Plated (Standard Cylinder Bore and oversize in width)		8/95	Crankshaft (Roller Bearing Type), fitted with 8/9, 8/97, 8/98
8/82	Scraper Ring, to suit 5 Groove Piston for Engines with Centrifugal Water Pump (Superseded by 8/86, which will be supplied for replacements)		8/96	Crankshaft (Roller Bearing Type), fitted with 8/9, 8/97, 8/98
8/83	Scraper Ring, to suit 5 Groove Piston for Engines with Ram Water Pump (Superseded by 8/87, which will be supplied for replacements)		8/97	Crankshaft Sprocket Retaining Nut, fitted with 8/98
8/84	PISTON—5 GROOVE—ASSEMBLY, Comprising 8/37 8/40, 8/41, 8/72, 8/78, 8/82 (Superseded by 8/89, which will be supplied for replacements)		8/98	Setscrew, Sq. Head, Pointed, $\frac{5}{16}$ "—22 Thds. $\times \frac{13}{32}$ " long

} For Engines with Ram Water Pump

} For Engines with Centrifugal Water Pump

} For Engines with Centrifugal Water Pump

} For Engines with Ram Water Pump

} For Engines with Ram Water Pump

} 3L3

} 4L3

} 5L3

} 6L3

} 8L3

} Engine Serial Number MUST be Specified When Ordering

} Roller Bearing Crankshaft

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CHAIN STARTING—Section 9

Part No.	Description	Plate No.	Part No.	Description	
9/1	Ratchet Box—Right Hand, fitted with 9/6, 9/7, 9/9 to 9/12	23	9/19	Setscrew, Hex. Head, $\frac{1}{2}$ " Wh. \times $1\frac{3}{8}$ " long \times $\frac{1}{2}$ " Hex.	
9/2	Ratchet Box Chain Wheel—Right Hand, fitted with 9/5		9/20	Chain Starting Bracket Strut	
9/3	Ratchet Box—Left Hand, fitted with 9/6, 9/8 to 9/12		9/21	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{3}{8}$ " Hex.	
9/4	Ratchet Box Chain Wheel—Left Hand, fitted with 9/5		9/22	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{3}{8}$ " Hex., fitted with 9/23	
9/5	Chain Wheel Bush		9/23	Nut, Steel, $\frac{3}{8}$ " Wh. \times $\frac{3}{8}$ " \times $\frac{3}{8}$ " Hex.	
9/6	Setscrew, Sq. Head, Pointed, $\frac{3}{8}$ " B.S.F. \times $\frac{9}{16}$ " long		9/24	Chain Starting Shaft Bracket—Flywheel End—Port, fitted with 9/17	
9/7	Ratchet Pawl—Right Hand, fitted with 9/9 to 9/12		9/25	Chain Starting Shaft Bracket—Flywheel End—Starboard, fitted with 9/17	
9/8	Ratchet Pawl—Left Hand, fitted with 9/9 to 9/12		9/26	Setscrew, Hex. Head, $\frac{3}{8}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{3}{8}$ " Hex.	
9/9	Pawl Pivot Bolt, fitted with 9/10		9/27	Setscrew, Hex. Head, $\frac{5}{16}$ " Wh. \times $1\frac{1}{8}$ " long \times $\frac{5}{16}$ " Hex.	
9/10	Nut, Steel, 2 B.A. \times $\frac{3}{16}$ " \times $\frac{1}{8}$ " Hex.		9/28	Chain Starting Shaft, fitted with 9/34 3L3	
9/11	Pawl Spring, fitted with 9/12		9/29	Chain Starting Shaft, fitted with 9/34 4L3	
9/12	Setscrew, Cheese Head, 4 B.A. \times $\frac{1}{4}$ " long		9/30	Chain Starting Shaft, fitted with 9/34 5L3	
9/13	Lower Chain Wheel Collar, fitted with 9/14		9/31	Chain Starting Shaft, fitted with 9/34 6L3	
9/14	Grub Screw, O B.A. \times $\frac{1}{2}$ " long		9/32	Chain Starting Shaft, fitted with 9/34 8L3	
9/15	Chain Starting Shaft Bracket—Chain Case End—Port, fitted with 9/17, 9/18		9/33	Upper Chain Wheel	
9/16	Chain Starting Shaft Bracket—Chain Case End—Starboard, fitted with 9/17, 9/18		9/34	Woodruff Key	
9/17	Oiler		9/35	Starting Handle Adapter, fitted with 9/36, 9/37	
9/18	Chain Starting Shaft Binding Screw		9/36	Setscrew, Sq. Head, Pointed, $\frac{3}{8}$ " B.S.F. \times $\frac{9}{16}$ " long	

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