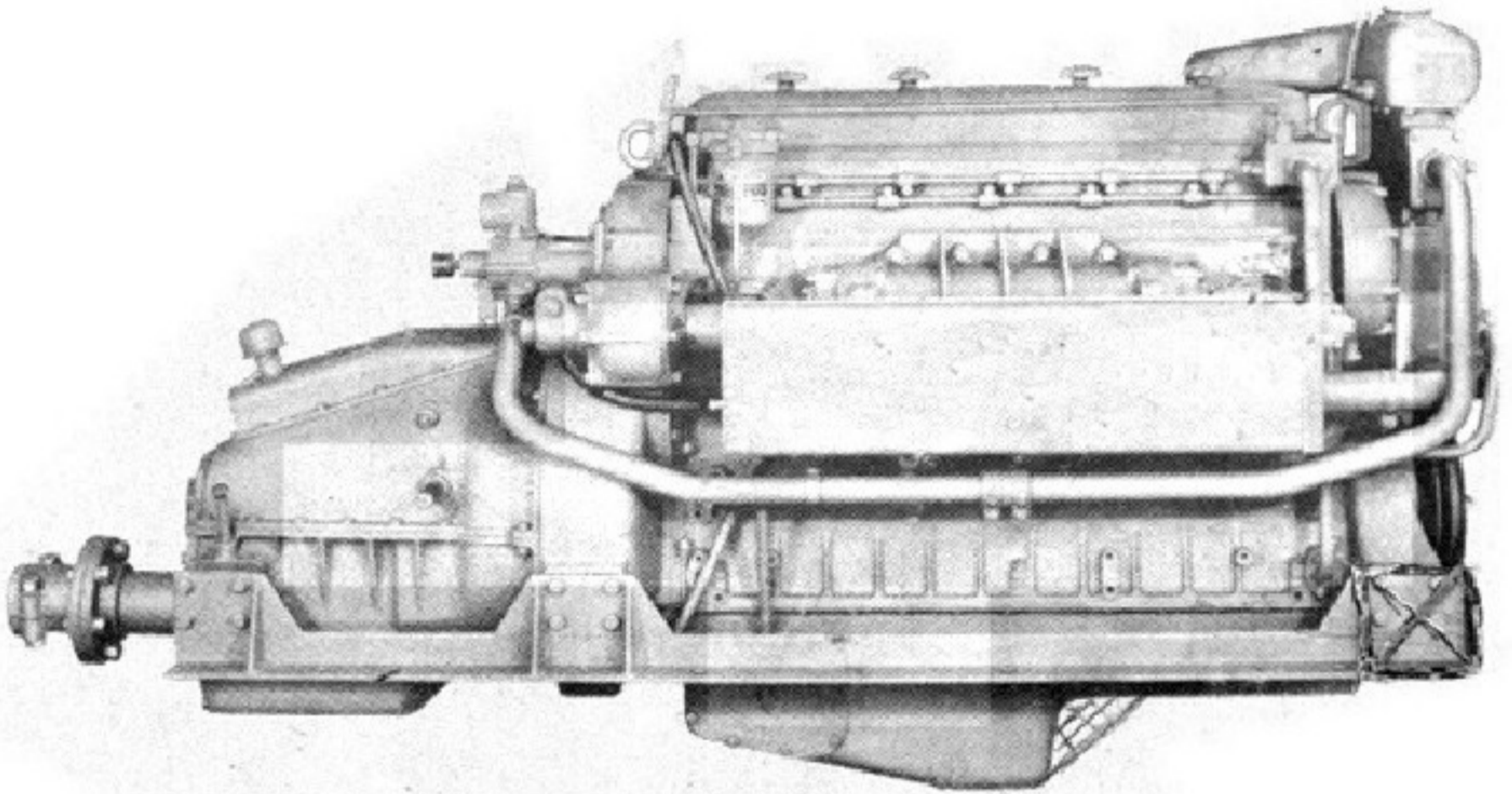


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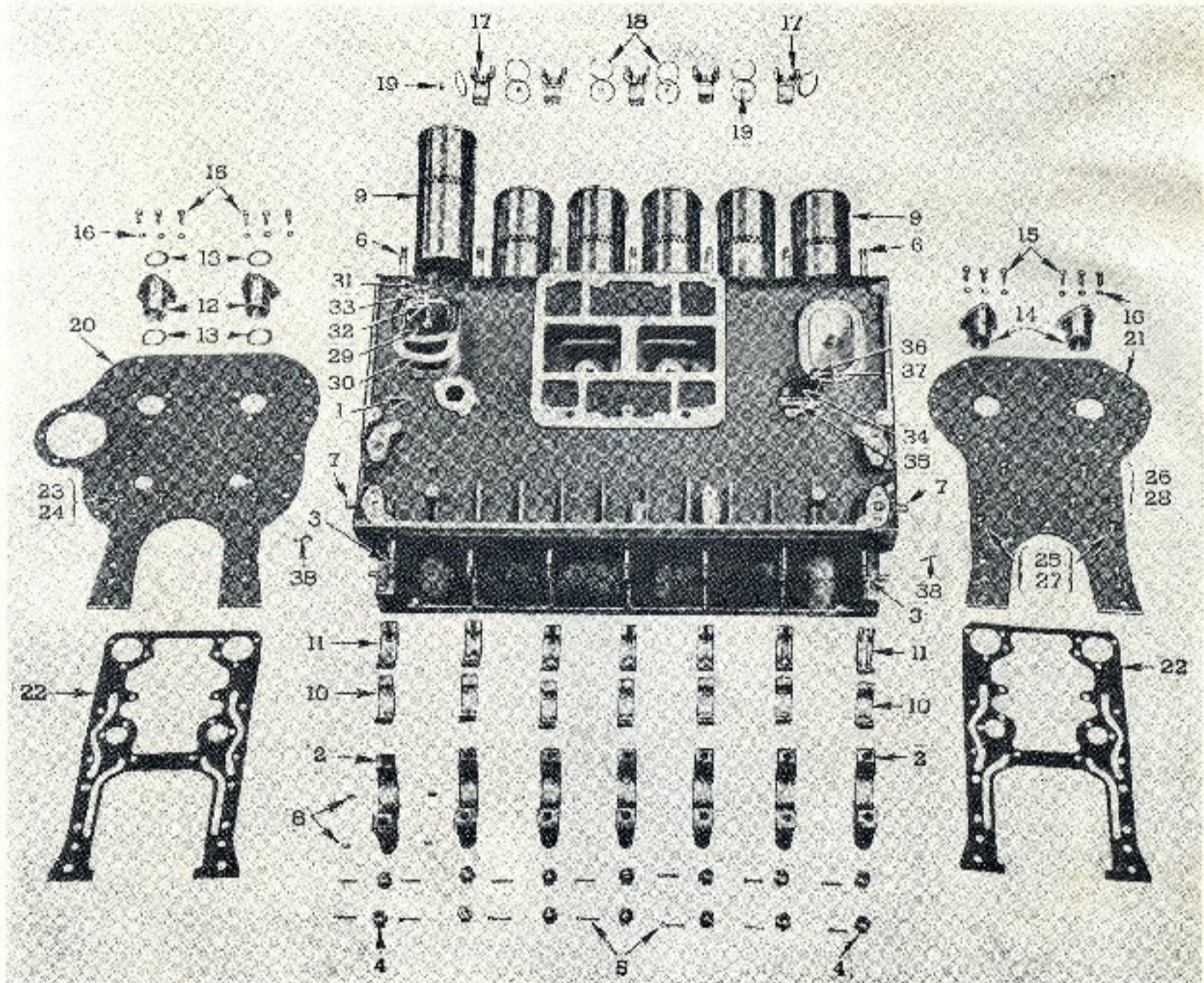
# PARTS LIST

## GROUP INDEX

Group No.	Group Name	Page No.
6A1	Cylinder block, Main Bearings, Cam Bearings .....	2
6A2	Cylinder Head .....	6
6A5	Engine Lifter Bracket .....	8
6B	Flywheel Housing .....	9
6C1	Crankshaft .....	10
6C2	Vibration Damper .....	11
6C3	Flywheel .....	11
6C4	Balance weight cover - Balance shaft .....	12
6D	Connecting Rod - Piston .....	13
6E	Oil Pan .....	14
6F1	Lubricating Oil Pump - Inlet and Outlet Connections .....	15
6G2	Lubricating Oil Filler Tube .....	18
6G3	Lubricating Oil Cooler .....	17
6G4	Lubricating Oil Level Gauge .....	14
6G5	Lubricating Oil Filter .....	19
6J	Engine Front Cover (Support) .....	21
6J3	Accessory Drive (Generator) .....	21
6K2	Fresh Water Pump .....	22
6K3	Fresh Water Manifold and Thermostat .....	23
6L	Exhaust Manifold .....	24
6M3	Air Silencer and Governor Breather .....	26
6M7	Blower .....	32
6M8	Fuel Filter and Lines .....	34
6N3	Injector and Governor Control Tube .....	36
6N4	Governor - Mechanical .....	37
6Q	Engine Mounting .....	8
6X1A	Gear Train and Blower Drive Support .....	38
6X1B	Camshaft - Push Rod - Exhaust Valve .....	40
6X3	Valve and Injector Rocker Arm and Cover .....	41
6Y1	Battery Charging Generator .....	42
6Y2	Starting Motor .....	42
7B	Transmission Exploded and Cross Sectional View .....	44
7B	Transmission, Clutch and Reverse Gear (Mechanical) .....	45
7B11	Transmission Conversion 2.04:1 .....	48
7B12	Transmission Conversion 3.05:1 .....	49
7B13	Hydraulic Marine Reverse and Reduction Gear .....	49
8A	Front Power Take-Off .....	50
12J6	Tachometer Drive .....	52
13D	Heat Exchanger, Lines and Expansion Tank .....	53
13H	Raw Water Pump .....	58
14B14	Bilge Pump .....	58



## GROUP 6A1—CYLINDER BLOCK



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6A1-1 BLOCK, CYLINDER</b>	
1	D5158689	Block Assembly 6-71 Low block	1
-	D5197273	Block Assembly 3-71 High block	1
-	D5194900	Block Assembly 4-71 High block	1
-	D5196146	Block Assembly 6-71 High block	1
2	D5158674	Cap, main bearing	7
3	D5152149	Stud, 5/8" - 11 x 5/8" - 18 x 5-3/8"	14
4	D5150572	Nut, Hex. slotted, special 5/8" - 18, cap to block	14
5	D103385	Pin, Cotter, 1/2" x 1"	14
6	D5151159	Stud, cyl. head 5/8" - 11 x 5/8" - 19 x 5-3/8"	14
7	D5151576	Pin, dowel 1/2" x 1-3/4" (flywheel hsg. and frt. cover)	4
8	D141348	Pin, dowel 3/16" x 1/2" (crankshaft thrustwasher)	4
-	D5192921	Gasket set 3-71 Low block engine overhaul	1
-	D5192922	Gasket set 4-71 Low block engine overhaul	1
-	D5192923	Gasket set 6-71 Low block engine overhaul	1
-	D5194807	HN 9 Supplement gasket set	1

# PARTS LIST

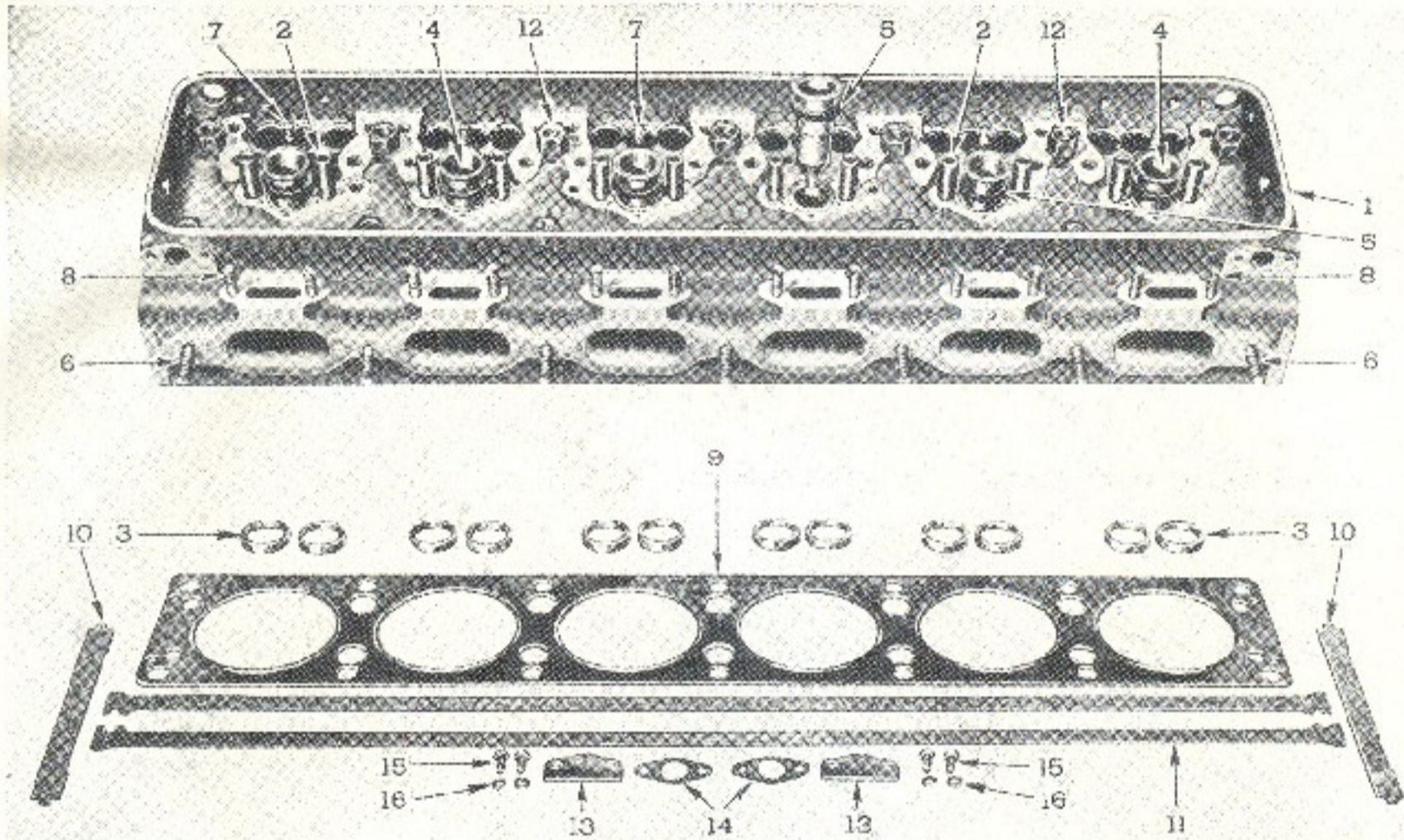
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6A1-1 BLOCK, CYLINDER (cont.)</b>			
-	D5193115	Gasket set 6-71 High block engine overhaul	1
-	D5193114	Gasket set 4-71 High block engine overhaul	1
-	D5193113	Gasket set 3-71 High block engine overhaul	1
<b>6A1-2 LINER, CYLINDER</b>			
9	D5149211	Liner, Fig. 8, standard	6
9	D5102316	Liner, Fig. 8, .005 O.S. O.D.	6
9	D5102317	Liner, Fig. 8, .010 O.S. O.D.	6
9	D5102318	Liner, Fig. 8, .020 O.S. O.D.	6
9	D5102319	Liner, Fig. 8, .030 O.S. O.D.	6
-	D5102315	Cylinder kit (includes one each liner, piston, pin and ring set)	6
-	D5192226	Shim, cyl. Liner .0015"	As req.
-	D2190595	Shim, cyl. liner .003"	As req.
Next 3 items for standard and .005" O.S., O.D. liners:			
-	D5184484	Insert, cyl. liner, high block, std. thickness, C.I. block	6
-	D5194073	Insert, cyl. liner, high block, .004" U.S. thickness, C.I. block	6
-	D5194074	Insert, cyl. liner, high block, .008" U.S. thickness, C.I. block	6
Next 3 items for .010" and .030" O.S., O.D. liners:			
-	D5193316	Insert, cyl. liner, std. thickness, C.I. block	6
-	D5194163	Insert, cyl. liner, .004" U.S. thickness, C.I. block	6
-	D5194164	Insert, cyl. liner, .008" U.S. thickness, C.I. block	6
<b>6A1-3 SHELL, MAIN BEARING</b>			
10-11	D5192874	Shell set, standard	7
10-11	D5192876	Shell set, .010 U.S.	7
10-11	D5192877	Shell set, .020 U.S.	7
10-11	D5192878	Shell set, .030 U.S.	7
<b>6A1-4 BEARING, CAM AND BALANCE SHAFT</b>			
12-14	D5158922	Bearing assembly, standard (thrust)	4
13	D5158917	Washer, thrust, standard	4
13	D5192231	Washer, thrust, .005 O.S.	4
13	D5192232	Washer, thrust, .010 O.S.	4
17	D5196022	Bearing, camshaft, intermediate, standard	5
17	D5196023	Bearing, camshaft, intermediate, .010 U.S. on I.D.	5
17	D5196024	Bearing, camshaft, intermediate, .020 U.S. on I.D.	5
18	D5115572	Ring, lock (snap type)	5
19	D5150027	Bolt, camshaft bearing, low block	5
19	D5123383	Bolt, camshaft bearing, high block	5

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6A1-5 PLATE, CYLINDER BLOCK END</b>			
20		Plate — rear	1
21	D5152878	Plate — front	1
22	D5177798	Gasket, front and rear	2
23	D179839	Bolt, Hex. Hd. $\frac{3}{8}$ " - 16 x 1"	6
24	D103321	Washer, lock $\frac{3}{8}$ "	6
25	D179832	Bolt, Hex. Hd. $\frac{1}{2}$ " - 13 x 1- $\frac{1}{8}$ "	2
26	D179839	Bolt, Hex. Hd. $\frac{3}{8}$ " - 16 x 1"	6
27	D103323	Washer, lock $\frac{1}{2}$ "	2
28	D103321	Washer, lock $\frac{3}{8}$ "	6
<b>6A1-6 COVER, CYLINDER BLOCK HANDHOLE</b>			
29	D5153117	Cover	8
30	D5150020	Gasket	8
31	D5153139	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 2- $\frac{1}{4}$ "	8
31	D105451	Gasket, copper, asbestos $\frac{3}{8}$ "	8
33	D103341	Washer, flat $\frac{3}{8}$ "	8
<b>5A1-7 COVER, CYLINDER BLOCK WATER HOLE</b>			
34	D5104190	Cover, $\frac{1}{2}$ " tapped hole	1
35	D5150024	Gasket	1
36	D179816	Bolt, Hex. Hd. $\frac{5}{16}$ " — 16 x 2- $\frac{1}{4}$ "	2
37	D103320	Washer, lock $\frac{5}{16}$ "	2
<b>6A1-9 TUBE, AIR BOX DRAIN</b>			
-	D5158825	Tube assembly	2
-	D137422	Elbow, 90 degrees, $\frac{5}{16}$ "	2

# PARTS LIST

## GROUP 6A2—CYLINDER HEAD



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6A2-1 HEAD, CYLINDER</b>	
1	D5198219	Head assembly 6-71 Low block	1
-	D5198219	Head assembly 6-71 Hi-block	1
-	D5198216	Head assembly 4-71 Hi-block	1
-	D5198218	Head assembly 3-71 Hi-block	1
-	D5198218	Head assembly 3-71 Low block	1
2	D5120930	Guide, valve (procamod)	12
3	D5178540	Insert, valve 45 degrees Std.	12
3	D5191176	Insert, valve 45 degrees .010" O.S.	12
3	D5131096	Insert, valve 30 degrees Std.	12
3	D5198230	Insert, valve 30 degrees .010" O.S.	12
4	D5150041	Tube, injector hole	6
6	D516--37	Ring, seal, injector hole	6
6	D5112899	Stud, exhaust manifold	7
7	D5150251	Stud, injector clamp	12
8	D5150362	Stud, water outlet manifold	4
-	D142968	Plug, pipe headless 3/4" I.P.	4
-	D144012	Plug, oil hole 3/8"	2
-	D5154453	Plug, special 3/8" — 16	2
-	D5172874	Nozzle, cyl. hd. water single outlet	10
-	D5172875	Nozzle, cyl. hd. water, double outlet	10

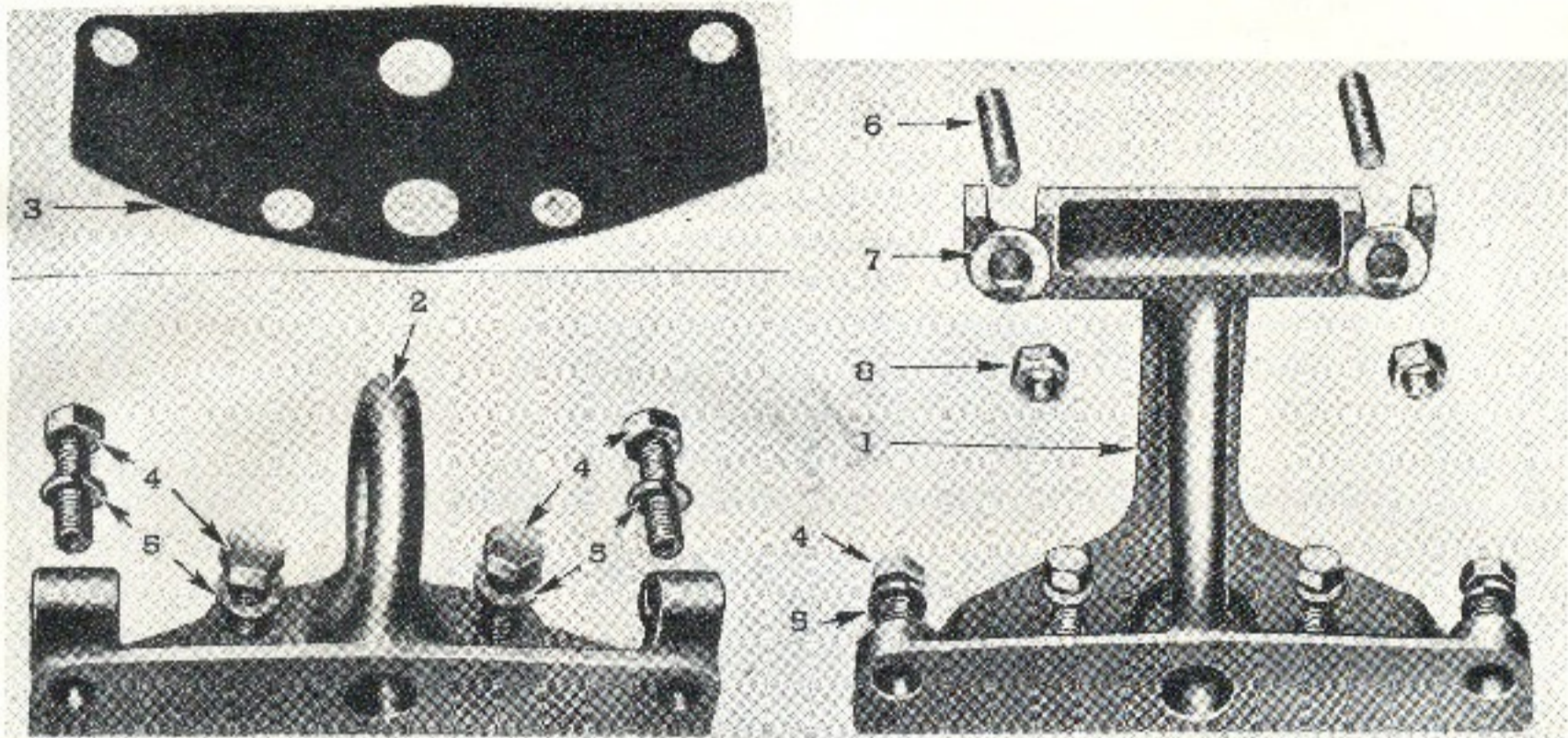
# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6A2-2 GASKET, CYLINDER HEAD</b>			
9	D5150045	Gasket, head 6-71 Low block	1
-	D5150044	Gasket, head 4071 Low block	1
-	D5150043	Gasket, head 3-71 Low block	1
-	D5183330	Gasket, cyl. head compression High block	6
10-11	D5192920	Gasket set, cyl. head oil 6-71 Low block	1
-	D5192919	Casket set, cyl. head oil 4-71 Low block	1
-	D5192918	Gasket set, cyl. head oil 3-71 Low block	1
<b>6A2-3 NUT, CYLINDER HEAD RETAINING</b>			
12	D5150013	Nut, Hex, special 3/8" — 18 (cyl. hd. to block)	14
<b>6A2-4 COVER, GOVERNOR HOLE IN CYLINDER HEAD</b>			
13	D5150268	Cover	3
14	D5122812	Gasket	3
15	D179791	Bolt, Hex. Hd. 1/4" — 20 x 1/2"	6
16	D103319	Washer, lock 1/4"	6
<b>6A2-5 GASKET SET, CYLINDER HEAD OVERHAUL</b>			
-	D5192926	Gasket set, 6-71 Low block cyl. head overhaul	1
-	D5192925	Gasket set, 4-71 Low block cy. head overhaul	1
-	D5192924	Gasket set, 3-71 Low block cyl. head overhaul	1
-	D5193118	Gasket set, 6-71 High block cyl. head overhaul	1
-	D5193117	Gasket set, 4-71 High block cyl. head overhaul	1
-	D5193116	Gasket set, 3-71 High block cyl. head overhaul	1



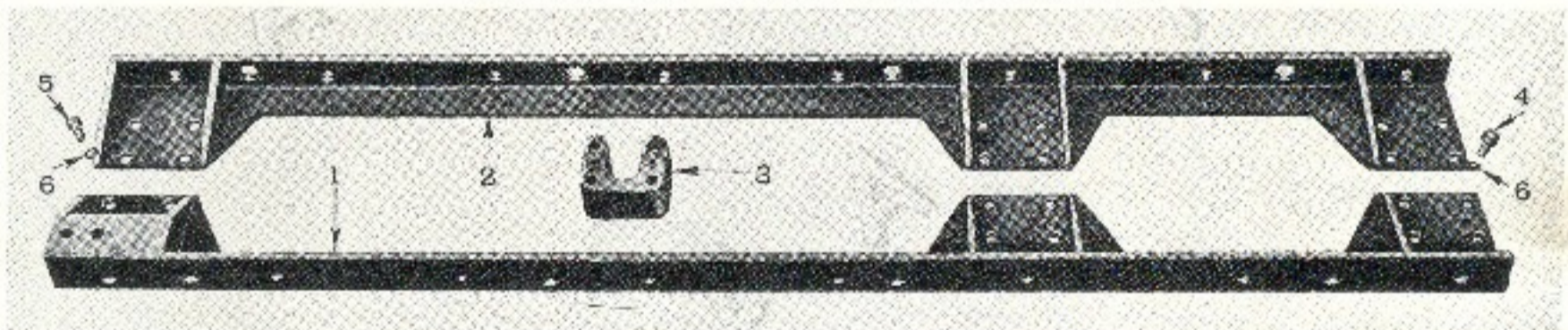
# PARTS LIST

## GROUP 6A5—ENGINE LIFTER BRACKET



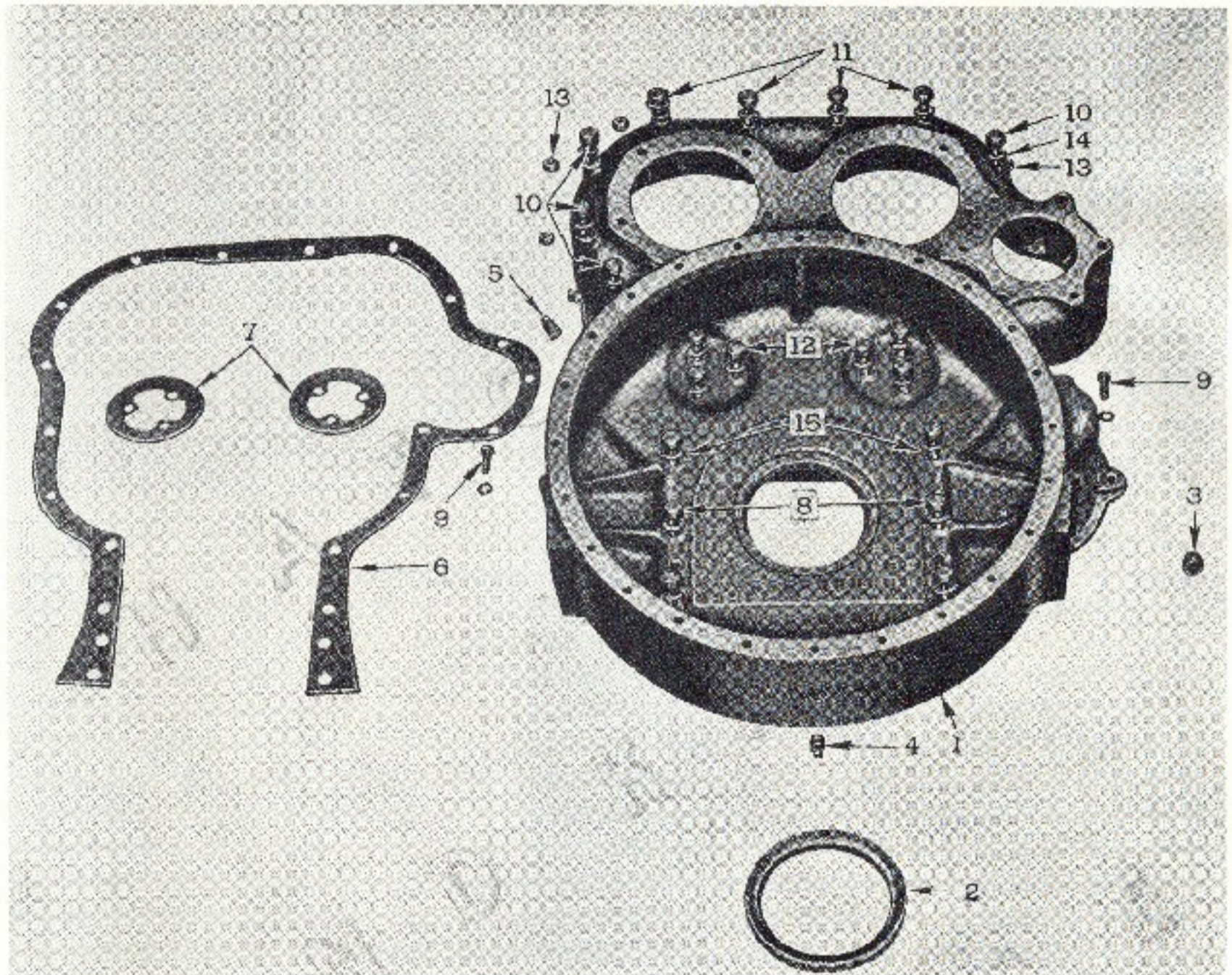
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6A5-1 BRACKET, ENGINE LIFTER</b>			
1	D5164399	Bracket (front)	1
2	D5150051	Bracket (rear)	1
3	D5150052	Gasket	2
4	D179862	Bolt, Hex. Hd. 7/16" — 14 x 1-1/2"	8
5	D103322	Washer, lock 7/16"	8
6	D5163881	Stud, 7/16" — 14 x 7/16" — 14 x 1-3/4"	2
7	D5164360	Washer, flat	2
8	D117063	Nut, Hex. 7/16" — 14	2

## GROUP 6Q—ENGINE MOUNTING



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6Q-1 RAIL, ENGINE MOUNTING</b>			
1	D5164296	Rail (left side when viewed from rear of engine)	1
2	D5164297	Rail (right side when viewed from rear of engine)	1
3	D5164298	Spacer (rail to transmission)	2
4	D179895	Bolt, Hex. Hd. 1/2" — 13 x 3-1/2" (rail to transmission)	8
5	D179883	Bolt, Hex. Hd. 1/4" — 13 x 1-1/4" (rail to engine)	16
6	D103323	Washer, lock 1/2" (rail to engine and transmission)	24

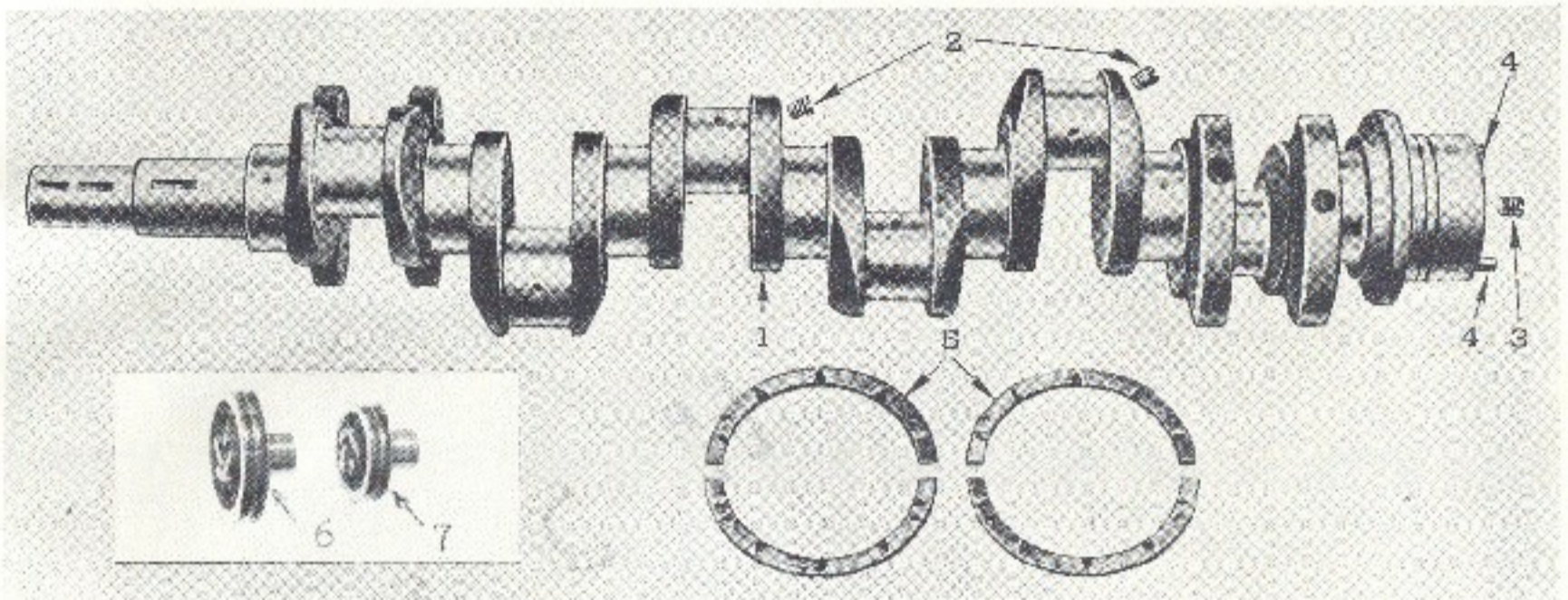
## GROUP 6B—FLYWHEEL HOUSING



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6B-1 HOUSING, FLYWHEEL</b>	
1	D5110718	Housing assembly	1
2	D5114335	Seal, single lip, standard	1
-	D5127821	Seal, double lip, standard	1
-	D5197860	Seal, single lip, O.S. I.D. use with D5197159 sleeve	1
-	D5196927	Seal, double lip, O.S. I.D. use with D5197159 sleeve	1
-	D5197159	Sleeve, use with O.S. I.D. seal	1
3	D103868	Plug, pipe square head 1/2"	1
4	D103869	Plug, square head 3/4" pipe thread	1
5	D103876	Plug, timing hole 1"	1
6-7	D5150054	Gasket set, flywheel housing	1
8	D190770	Bolt, Hex. Hd. 1/2" — 13 x 3-1/2"	6
9	D179839	Bolt, Hex. Hd. 3/8" — 16 x 1"	2
10	D186310	Bolt, Hex. Hd. 3/8" — 24 x 3-1/2"	4
11	D186309	Bolt, Hex. Hd. 3/8" — 24 x 3-1/4" (housing to end plate)	4
12	D186619	Bolt, Hex. Hd. 3/8" — 16 x 1-1/8" (housing to hub or spacer)	6
13	D117049	Nut, Hex. 3/8" — 24 (plate to housing)	4
14	D103321	Washer, lock, medium 3/8"	16
15	D103323	Washer, lock medium 1/2"	6

# PARTS LIST

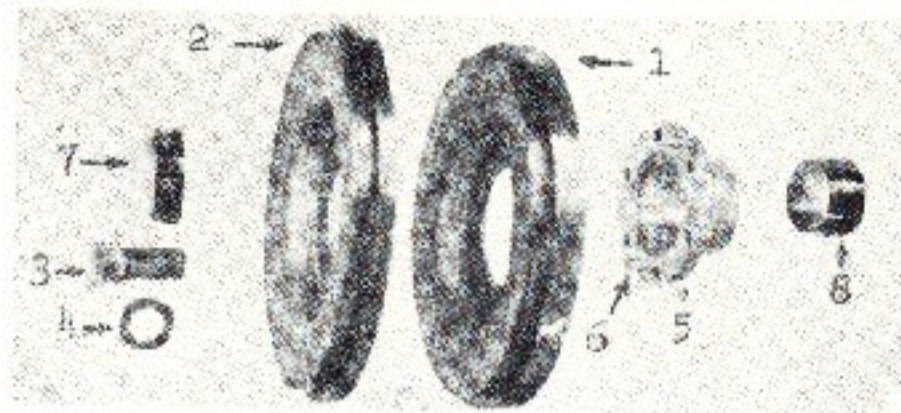
## GROUP 6C1—CRANKSHAFT



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6C1-1 CRANKSHAFT</b>			
1	D5179068	Crankshaft assembly 6-71	1
-	D5182941	Crankshaft assembly 4-71	1
-	D5184215	Crankshaft assembly 3-71	1
2	D103883	Plug, slotted headless 1/8" pipe thread oil hole	6
3	D103878	Plug, square head 1/4" pipe thread oil wick hole	1
4	D5177528	Pin, dowel 9/16" x 1-1/8" crank to flywheel	2
<b>6C1-2 WASHER, REAR MAIN THRUST</b>			
5	D5199353	Washer, crankshaft rear main thrust, std.	4
5	D5160542	Washer, crankshaft rear main thrust, .005	.
5	D5192111	Washer, crankshaft rear main thrust, .010	.
<b>6C1-3 C/S KEYS AND OIL PUMP DRIVE</b>			
-	D5131724	Key, 3/8" x 1-1/4" Woodruff	
-	D5151217	Sprocket, oil pump drive 4-71, 6-71	1
-	D5156532	Gear, oil pump drive 4-71, 6-71	
-	D5166821	Gear, oil pump drive 3-71	
-	D5150334	Sprocket, oil pump drive 3-71	
-	D124549	Key, 3/16" x 3/4"	
<b>6C1-4 PULLEY, CRANKSHAFT</b>			
6	D5164158	Pulley, crankshaft, front, double sheave 9" dia.	1
7	Dd6-140	Pulley, crankshaft, front, double sheave 7" dia.	1
* As Required			

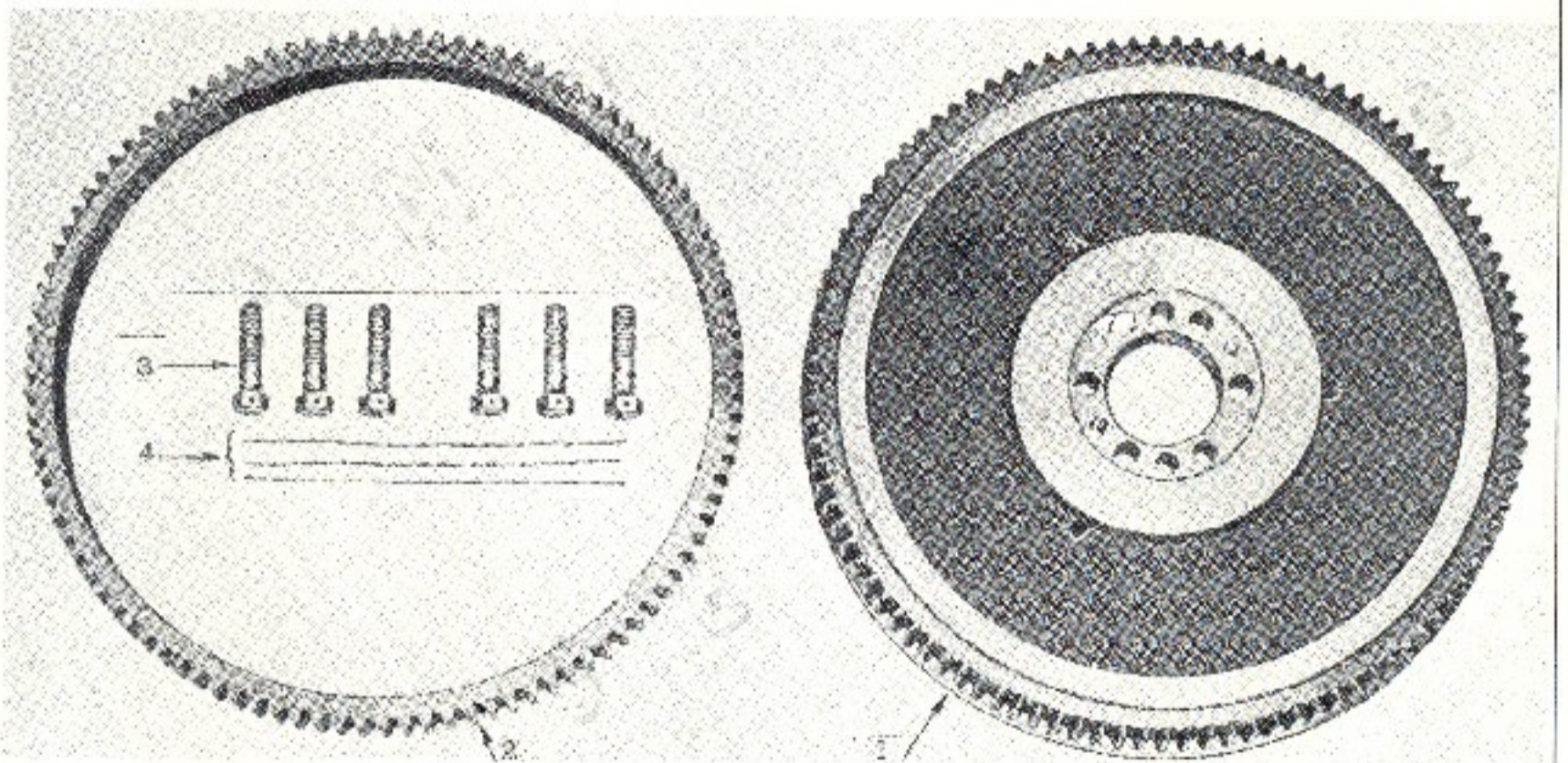
# PARTS LIST

## GROUP 6C2—VIBRATION DAMPER



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6C2 VIBRATION DAMPER</b>	
1	D5100421	Damper assembly (heavy)	1
2	D5100553	Damper assembly (light)	1
3	D5164159	Bolt, Hex. Hd.	1
4	D5164160	Washer	1
5	D5156296	Hub assembly (includes next item)	1
6	D5156295	Pin, dowel, 7/16" x 1"	2
7	D5151344	Cone, front	1
8	D5153144	Cone, rear	1

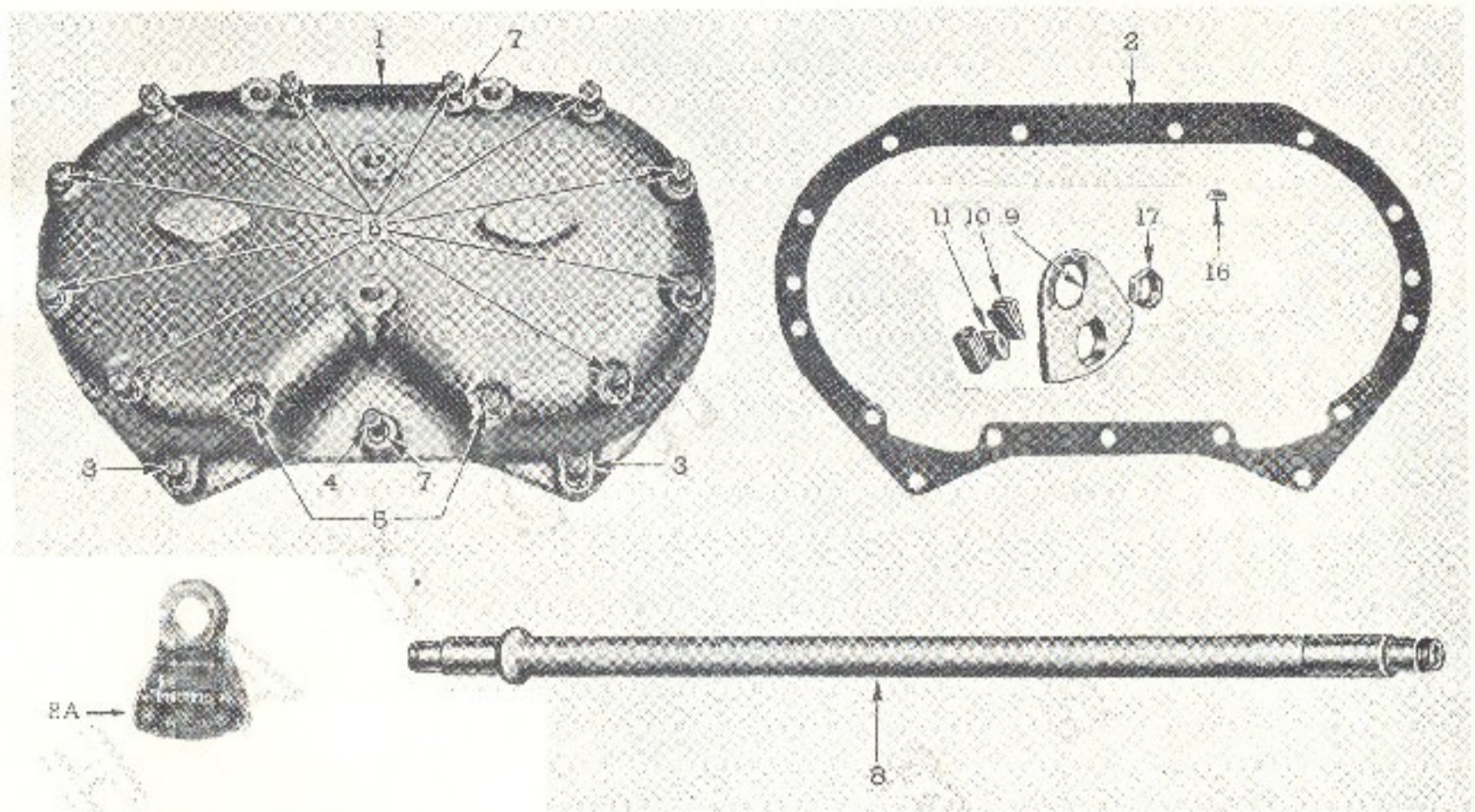
## GROUP 6C3—FLYWHEEL



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6C3-1 FLYWHEEL</b>	
1	D5152681	Flywheel assembly (includes next item)	1
2	D5184773	Gear, ring	1
3	D9410925	Bolt, flywheel to crankshaft	6
4	D5151241	Wire, lock 1/16" dia. 9" long	3

# PARTS LIST

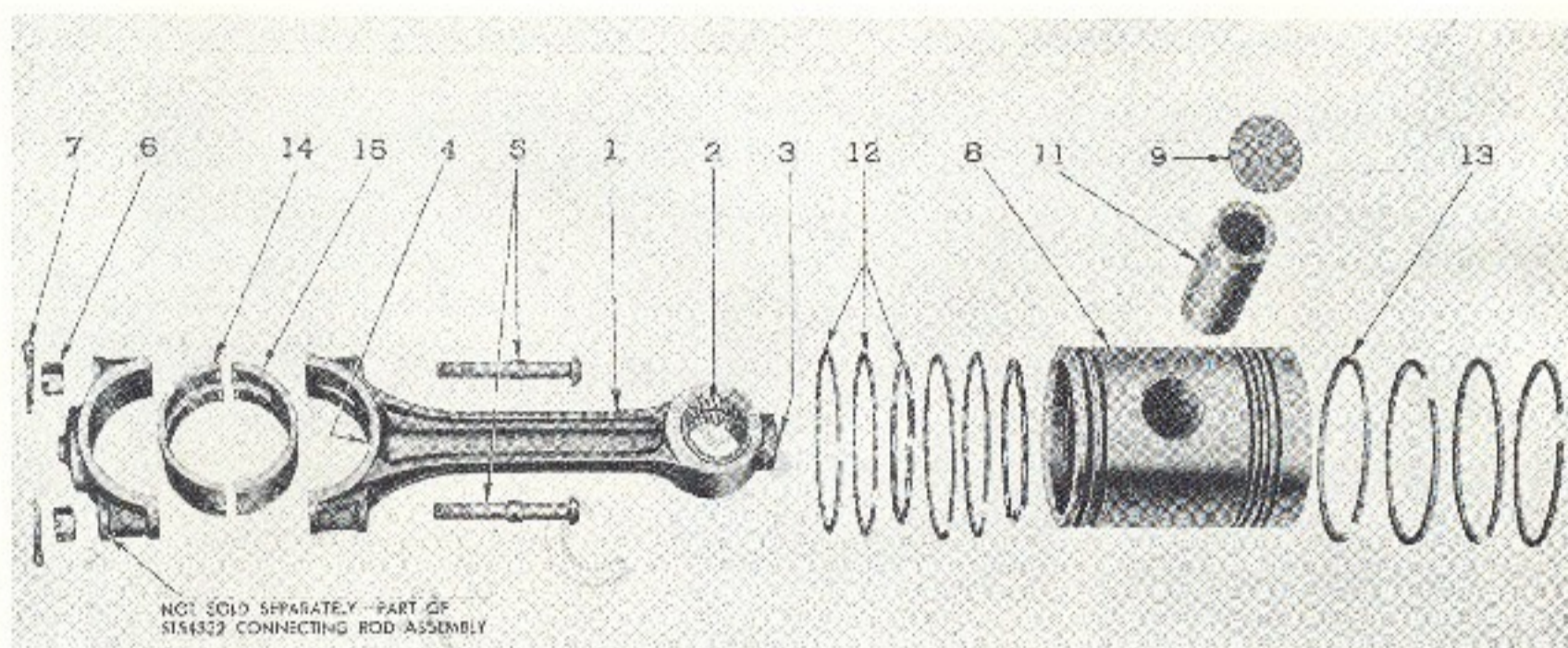
## GROUP 6C4—BALANCE WEIGHT COVER—BALANCER SHAFT



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6C4-1 COVER, FRONT BALANCE WEIGHT</b>			
1	D5151574	Cover	1
2	D5121753	Gasket	1
3	D179846	Bolt, Hex. Hd. 5/8" — 16 x 1-5/8"	2
4	D181374	Bolt, Hex. Hd. 5/8" — 24 x 1-1/2"	1
5	D186283	Bolt, Hex. Hd. 5/8" — 16 x 3-1/2"	2
6	D187234	Bolt, Hex. Hd. 5/8" — 24 x 2-5/8"	10
7	D103321	Washer, lock medium 5/8"	15
<b>6C4-2 SHAFT, BALANCER</b>			
8	D5158673	Shaft, balancer 6-71	1
-	D5158672	Shaft, balancer 4-71	1
-	D5158671	Shaft, balancer 3-71	1
<b>6C4-3 WEIGHT FRONT BALANCER</b>			
8A	D5114031	Weight, front balancer 6-71	2
8A	D5153001	Weight, front balancer 4-71	2
8A	D5153000	Weight, front balancer 3-71	2
9	D5150081	Bushing, used on 5150074 weight	2
10	D5150084	Spring, used on 5150074 weight	2
11	D5150083	Spacer, spring	2
16	D5153914	Key, Woodruff 1/4" x 1"	2
17	D5154318	Nut, special Hex. 1-1/8" — 18 HN9 Model	2
-	D5150087	Nut, Hex. 1-1/8" x 18 late models	2

# PARTS LIST

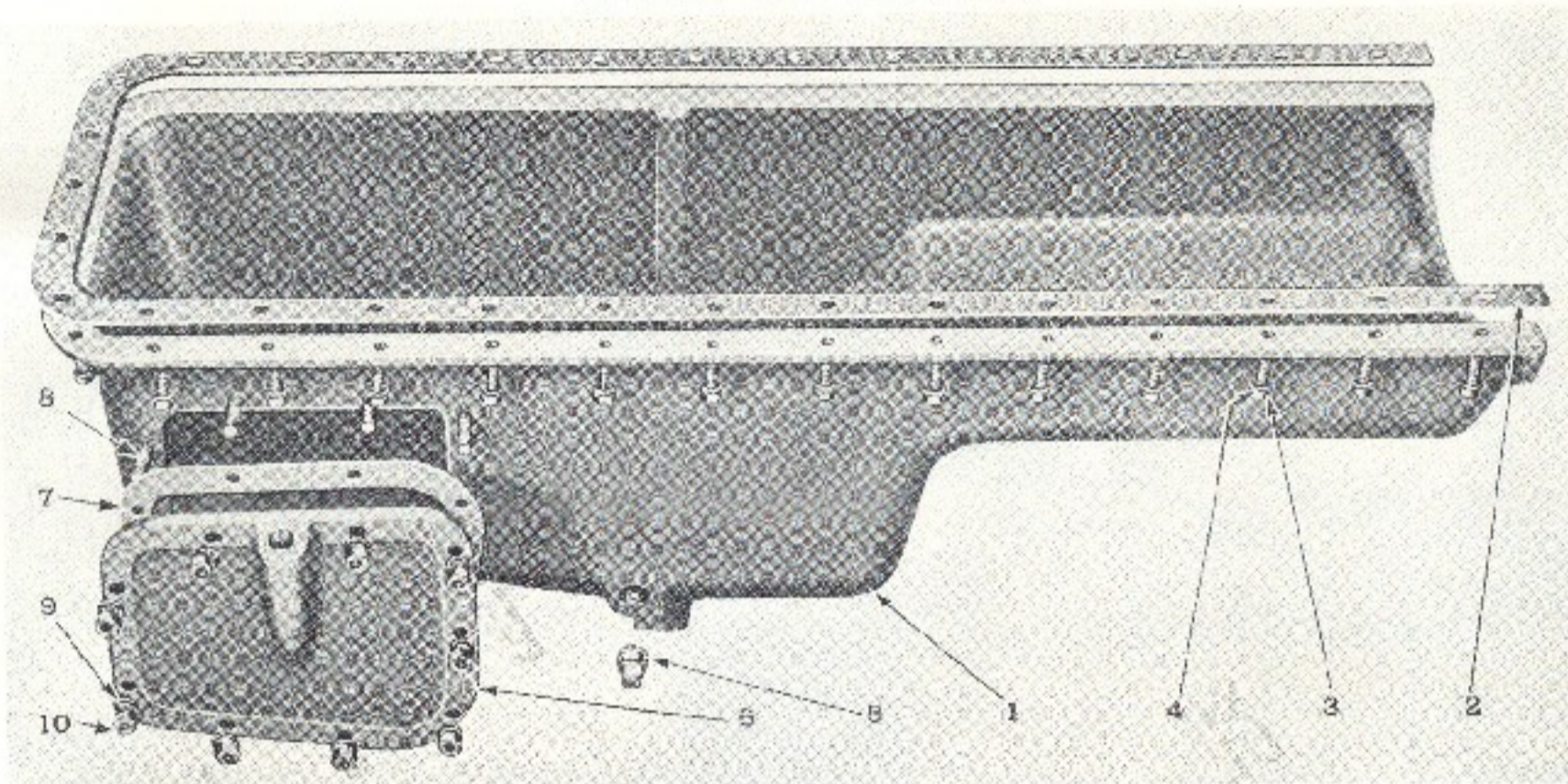
## GROUP 6D—CONNECTING ROD—PISTON



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6D-1 ROD CONNECTING</b>			
1	D5135515	Rod assembly (includes next five items)	6
2	D5157274	Busing (piston p n connecting rod)	12
3	D515 140	Nozzle, piston spray (top of rod)	6
4	D5154360	Orifice, connecting rod (bottom of rod)	6
5	D5132383	Bolt, special 7/16" — 20 x 3-3/8" long	12
6	D5117629	Nut, hex., slotted 7/16" — 20	12
7	D108629	Pin, cotter, 3/32" x 3/8"	12
<b>6D-2 PISTON ASSEMBLY</b>			
8	D5189054	Piston assembly, Std.	6
9	D5188405	Retainer, piston pin	12
10	D5155839	Bushing, piston pin	12
11	D5188406	Pin, piston, Std.	6
12-13	D5193477	Ring set, piston, Std. (includes rings for one piston using four chrome compression rings)	6
12	D5179836	Ring, oil control (includes two scrapers and one expander)	As rec.
13	D5185325	Ring, compression, steel chrome, Std.	As req.
<b>6D-3 BEARING, CONNECTING ROD</b>			
14-15	D5192895	Shell set, Std.	6
14-15	D5192897	Shell set, .010 U.S.	6
14-15	D5192898	Shell set, .020 U.S.	6
14-15	D5192899	Shell set, .030 U.S.	6

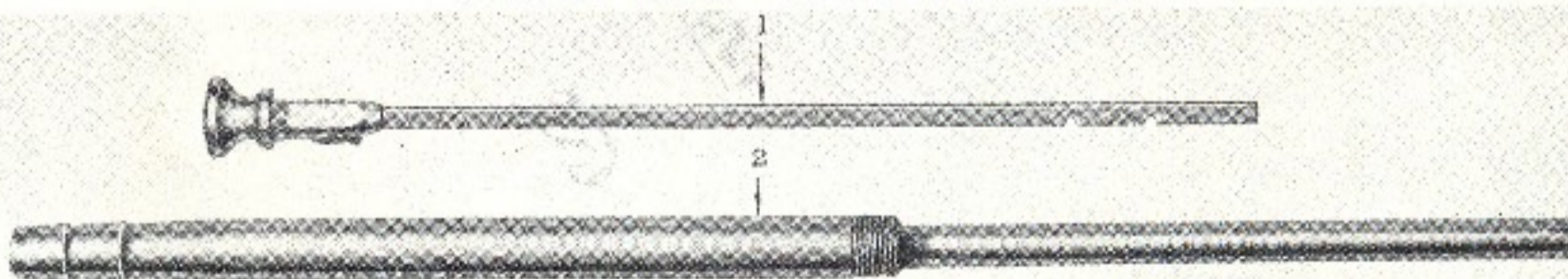
# PARTS LIST

## GROUP 6E—OIL PAN



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6E-1 PAN, OIL</b>			
1	D5164163	Pan, Oil	1
2	D5164164	Gasket	1
3	D106325	Bolt, Hex. Hd. 5/16" x 7/8"	30
4	D103320	Washer, lock 5/16--	30
5	D113176	Plug, pipe 1/2" drain	2
<b>6E-2 PLATE, OIL PAN HAND HOLE</b>			
6	D5164166	Plate	1
7	D5164165	Gasket	1
8	D5164167	Stud, 3/4" — 16 x 3/8" — 16 x 1 1/8"	9
9	D116093	Washer, flat, brass, 3/8"	9
10	D123234	Nut, Hex. brass 3/4" — 16 x 7/16"	9

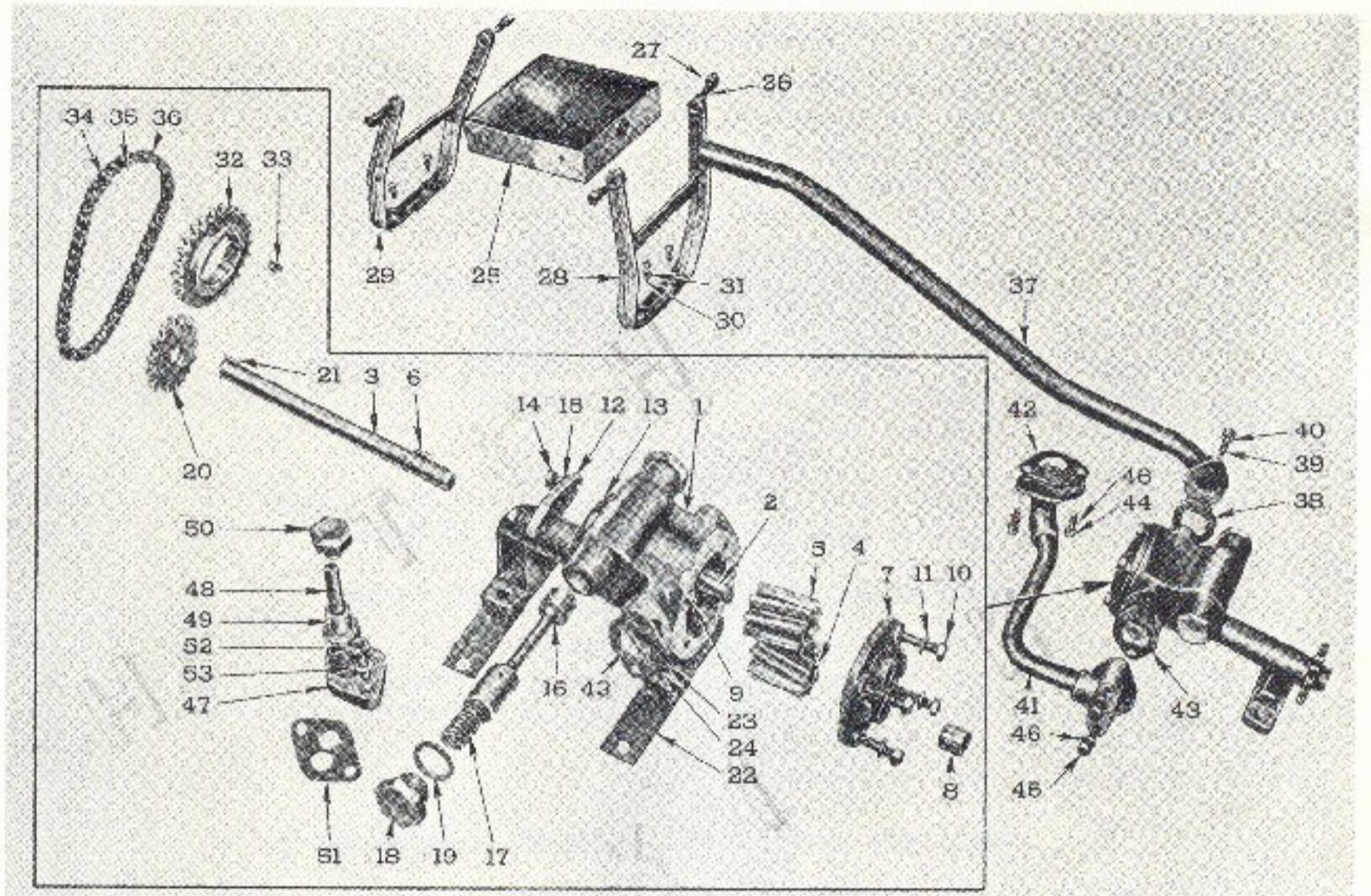
## GROUP 6G4—OIL LEVEL GAGE



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6G4-1 GAGE, OIL DEPTH</b>			
1	D5164168	Gage, oil depth	1
2	D5164169	Sleeve, oil depth gage	1

# PARTS LIST

## GROUP 6F1 LUBRICATING OIL PUMP—INLET AND OUTLET CONNECTIONS



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6F1-1 PUMP, LUBRICATING OIL</b>	
-	D5157494	Pump Assembly (includes next 24 items)	1
1	D5153520	Body and driven shaft assembly (incl. next 3 items)	1
1	D5153324	Body and bushing assembly (incl. next item)	1
-	D5153147	Bushing — long, drive shaft	1
2	D5153310	Shaft, driven	2
3	D5153309	Shaft, drive	1
4	D5153260	Gear, drive	1
5	D5153617	Gear assembly, driven (incl. next item)	1
-	D5153154	Bushing	2
6	D103905	Key, Woodruff (drive gear to shaft)	1
7	D5153299	Cover assembly, oil pump, (incl. next item)	1
8	D5153154	Bushing	1
9	D5153301	Dowel, special	2
10	D186624	Bolt, Hex. Hd., 5/16" — 18 x 1-1/4"	4
11	D103320	Washer, Lock, medium 5/16"	4
12	D5156955	Cover, oil pump pad	1
13	D5151370	Gasket, cover	1
14	D179816	Bolt, Hex. Hd. 5/16" — 18 x 5/8"	2
15	D103320	Washer, Lock, medium 5/16"	2
16	D5153247	Valve, oil pump relief	1
17	D5155765	Spring, relief valve	1
18	D5152613	Plug, relief valve	2
19	D105456	Gasket, copper, 3/8"	2

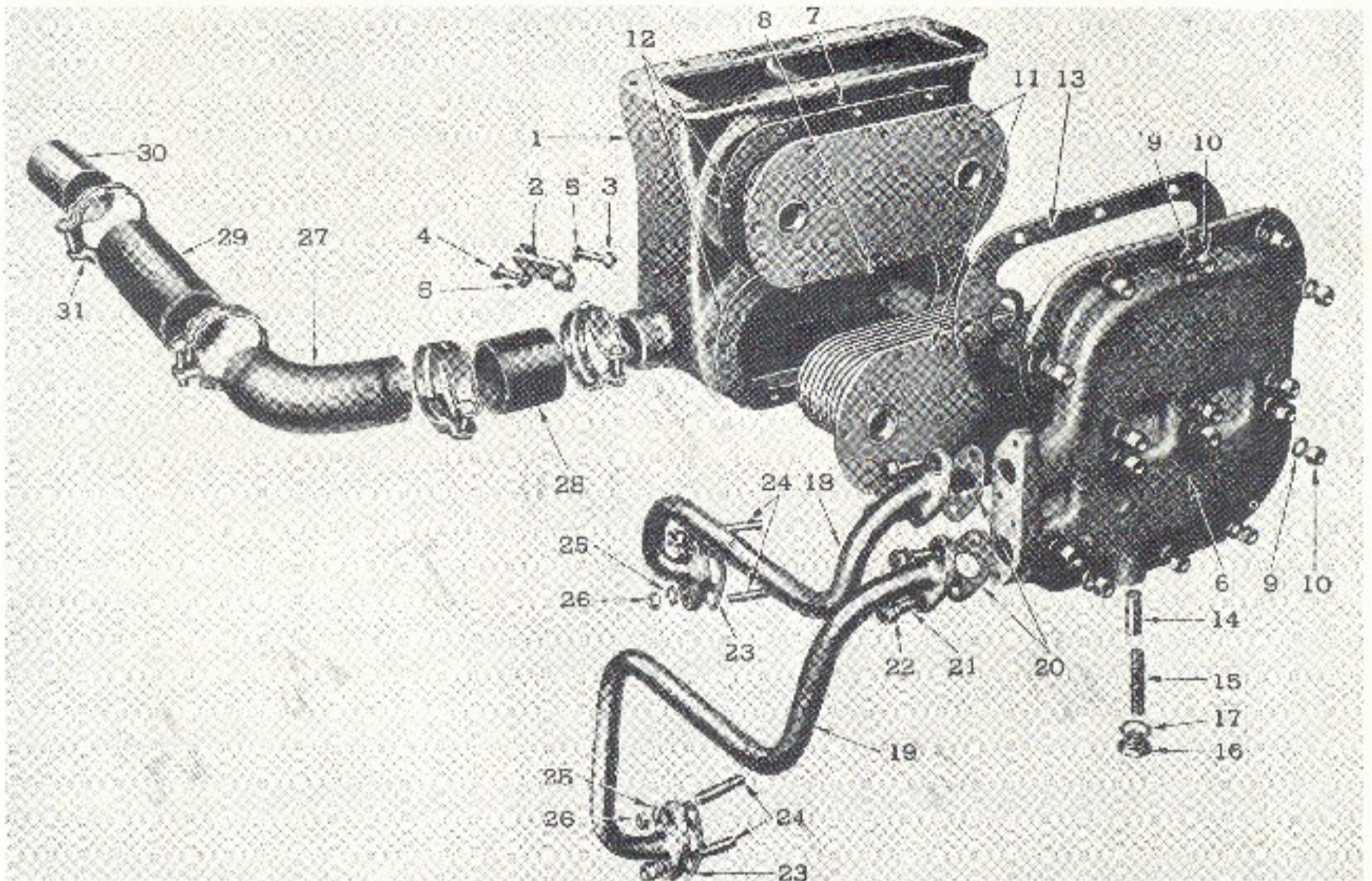


# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6F1-1 PUMP, LUBRICATING OIL (Cont)</b>			
20	D5153343	Sprocket, driven (mounted on pump)	1
21	D103905	Key, Woodruff, 1/8" x 3/8" (sprocket to shaft)	1
22	D5176119	Shim, special	As Req.
23	D186627	Bolt, Hex. Hd. 3/8" - 24 x 1" (pump to bearing cap)	4
24	D103321	Washer, lock medium 3/8" (pump to bearing cap)	4
<b>6F1-2 SCREEN AND BRACKETS, OIL PUMP</b>			
25	D5164171	Screen	1
26	D186625	Bolt, Hex. Hd., 5/16" - 18 x 1/2" (screen to bracket)	4
27	D103320	Washer, lock, 5/16" (screen to bracket)	4
28	D5164173	Bracket, oil screen support - long	1
29	D5164172	Bracket, oil screen support - short	1
30	D186627	Bolt, Hex. Hd. 3/8" - 24 - 1" (bracket to bearing cap)	4
31	D103321	Washer, lock, medium, 3/8" (bracket to bearing cap)	4
<b>6F1-3 CHAIN AND SPROCKET, OIL PUMP DRIVE</b>			
32	D5151217	Sprocket, drive (mounted on crankshaft)	1
33	D106751	Key, Woodruff 3/16" x 3/4" (sprocket to crankshaft)	1
34	D5152992	Chain, oil pump drive (includes next two items)	1
35	D5152993	Link, connecting	As Req.
36	D5152994	Bar, chain side	As Req.
<b>6F1-4 PIPE, OIL PUMP INLET (PUMP TO SCREEN)</b>			
37	D5164174	Pipe assembly	1
38	D5153313	Gasket	1
39	D186629	Bolt, Hex. Hd. 5/16" - 18 x 1"	2
40	D103320	Washer, lock, 5/16"	2
<b>6F1-5 PIPE, OIL PUMP OUTLET</b>			
41	D5156926	Pipe assembly	1
42	D5156922	Gasket (pipe to block)	1
43	D5153313	Gasket (pipe to pump)	1
44	D186629	Bolt, Hex. Hd. 5/16" - 18 x 1"	2
45	D186648	Bolt, Hex. Hd. 5/16" - 18 x 1-1/8"	2
46	D103320	Washer, lock, medium, 5/16"	4
<b>6F1-6 REGULATOR, OIL PRESSURE</b>			
-	D5156827	Regulator assembly (includes next 4 items)	1
47	D5156826	Body	1
48	D5156815	Spring	1
49	D5156819	Valve	1
50	D5156816	Plug, special	1
51	D5156831	Gasket (regulator to block)	1
52	D186629	Bolt, Hex. Hd., 5/16" - 18 x 1", (regulator to block)	2
53	D103320	Washer, lock, medium 5/16" (regulator to block)	2

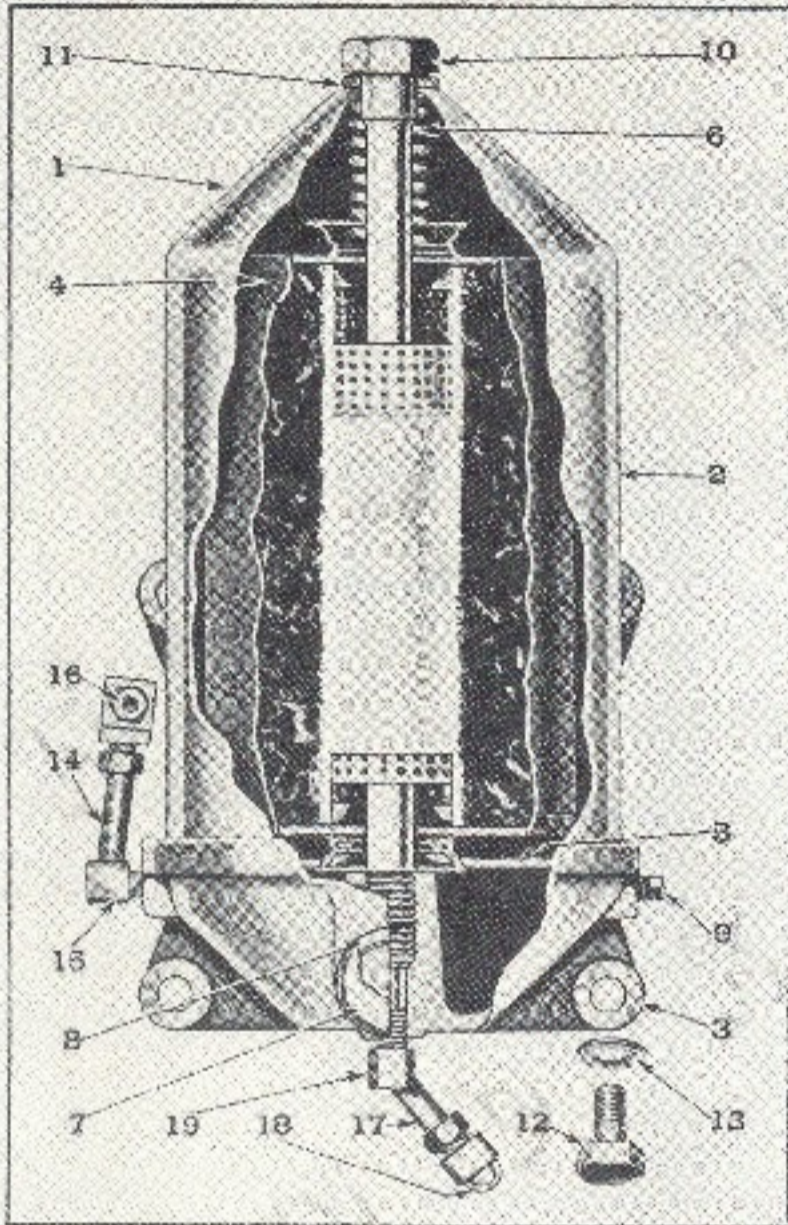
# PARTS LIST

## GROUP 6G3—LUBRICATING OIL COOLER



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6G3-1 HOUSING AND BRACKET, OIL COOLER</b>			
1	D5164223	Housing	1
2	D5158753	Bracket, Housing support	2
3	D100136	Bolt, Hex. Hd., $\frac{5}{8}$ " — 16 x 1- $\frac{1}{2}$ " (bracket to block)	2
4	D186622	Bolt, Hex. Hd. $\frac{5}{8}$ " — 16 x 1- $\frac{1}{2}$ " (bracket to housing)	2
5	D103321	Washer, lock $\frac{5}{8}$ "	4
Note: For oil cooler housing to heat exchanger attaching parts, Note: see sub-group 13D-1			
<b>6G3-2 COVER, OIL COOLER HOUSING</b>			
6	D5164227	Cover	1
7	D5164225	Stud, 5/16" — 18 x 5/16" — 18 x 1-7/16"	9
8	D5164226	Stud, 5/16" — 18 x 5/16" — 18 x 2- $\frac{1}{8}$ "	7
9	D5163834	Washer, special, brass	16
10	D117061	Nut, Hex., 5/16" — 18	16
<b>6G3-3 CORE, OIL COOLER</b>			
11	D8514600	Core assembly	2
12	D5154215	Gasket (core to housing)	2
13	D5150155	Gasket (core to cover)	2
<b>6G3-4 VALVE, OIL COOLER BY-PASS</b>			
14	D5156769	Valve	1
15	D5152381	Spring, valve	1
16	D5156782	Plug, special $\frac{5}{8}$ " — 18	1
17	D5156768	Gasket, Plug	1

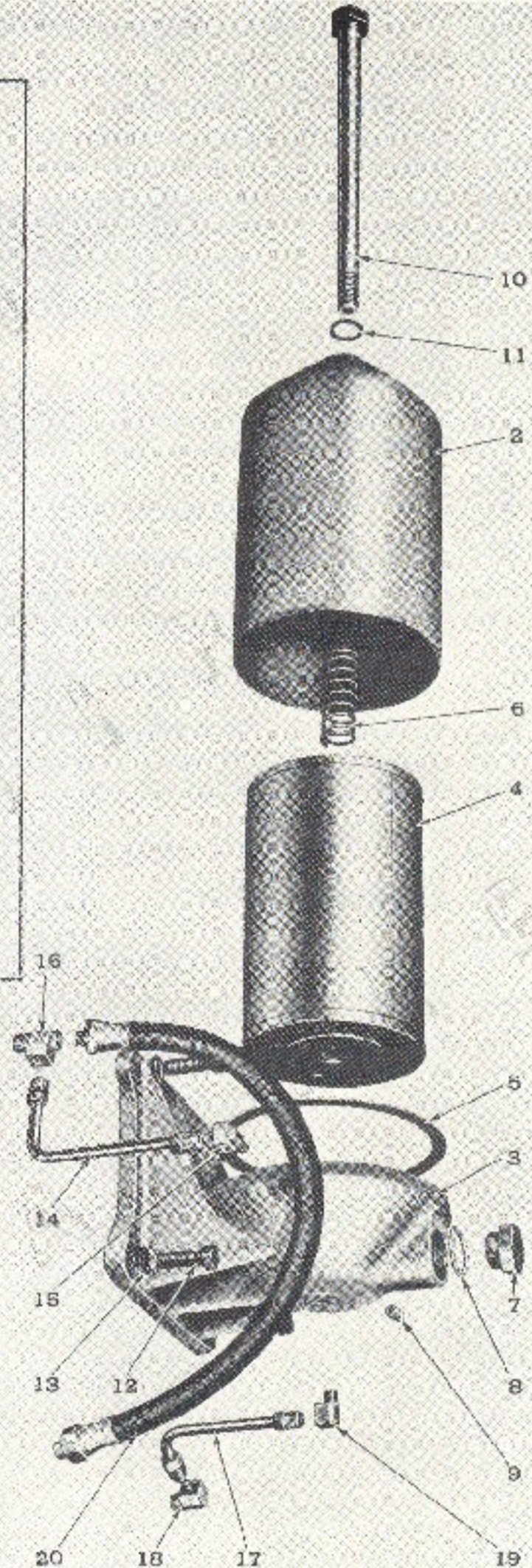
## GROUP 6G5—LUBRICATING OIL FILTER AND LINES



CROSS-SECTIONAL VIEW



Model 750-C



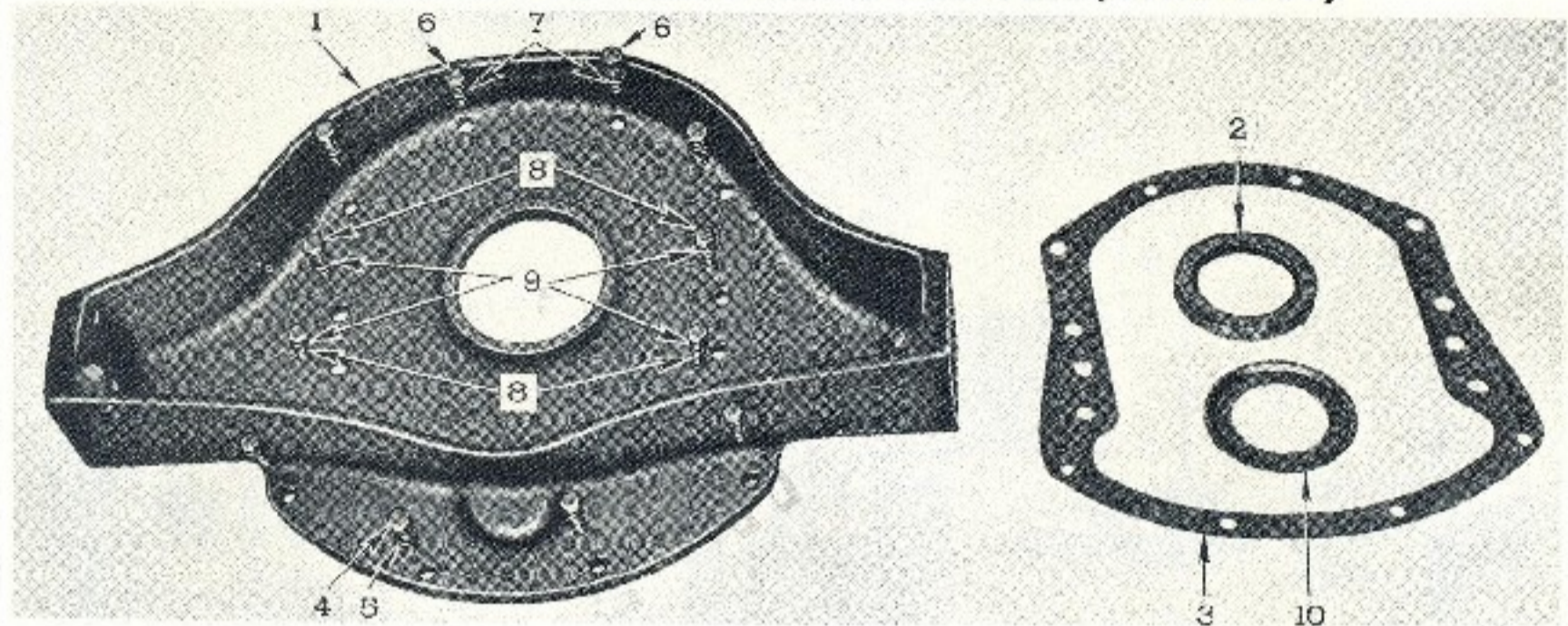
EXPLODED VIEW

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6G5-1 FILTER, LUBRICATING OIL</b>			
1	D853694	Filter assembly (includes next 10 items)	1
2	D1504076	Shell assembly	1
3	D853696	Base and bracket	1
4	D51013	Element (includes next item)	1
5	D853707	Gasket, base	1
6	D853708	Spring	1
7	D853710	Plug, Hex. Hd	1
8	D837635	Gasket, Hex. Hd. plug	1
9	D103877	Plug, sq. hd.	1
10	D853700	Stud, center	1
11	D1503517	Gasket, center stud	1
12	D179860	Bolt, Hex. Hd. 7/16" — 14 x 1-1/4", filter to block	4
13	D103322	Washer, lock, 7/16", filter to block	4
<b>6G5-2 INLET TUBE, LUBRICATING OIL FILTER</b>			
14	D5163812	Tube assembly	1
15	D5164311	Elbow (at filter)	1
16	D5164312	Tee, inverted (at block)	1
<b>6G5-3 OUTLET TUBE, LUBRICATING OIL FILTER</b>			
17	D5163813	Tube assembly	1
18	D137422	Elbow (at block)	1
19	D143343	Elbow (at filter)	1
<b>6G5-4 HOSE, FLEXIBLE (OIL PRESSURE LINE)</b>			
20	D5164327	Hose	1
<b>6G5-5 LUBER-FINER FILTER ASSEMBLY</b>			
21	D2126	Model 750-C Standard lube oil filter ass'y. 6-71	1
-	D2791	Mode 500-C Standard lube oil filter ass'y. 3, 4-71	1
-	D3118	Diesel pack lube oil filter element for Model K2126	1
-	D3215	Diesel pack lube oil filter element for Model D2791	1

# PARTS LIST

## GROUP 6J—ENGINE FRONT COVER (SUPPORT)



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
1	D5164668	<b>6J-1 SUPPORT, FRONT MOTOR (CRANKSHAFT FRONT COVER)</b> Support assembly	1
2	D5164157	Seal, crankshaft	1
3	D5164156	Gasket	1
4	D186619	Bolt, Hex. Hd. $\frac{9}{16}$ " — 16 x 1- $\frac{1}{8}$ "	4
5	D103321	Washer, lock, $\frac{9}{16}$ "	4
6	D100136	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 1- $\frac{1}{8}$ "	2
7	D103321	Washer, lock, $\frac{3}{8}$ "	2
8	D100160	Bolt, Hex. Hd. $\frac{1}{2}$ " — 13 x 1- $\frac{1}{8}$ "	6
9	D103323	Washer, lock $\frac{1}{2}$ "	6
10	D5150174	<b>6J-2 SLINGER, CRANKSHAFT OIL - FRONT</b> Slinger 6-71	1
	D5150175	Slinger 3-71	1

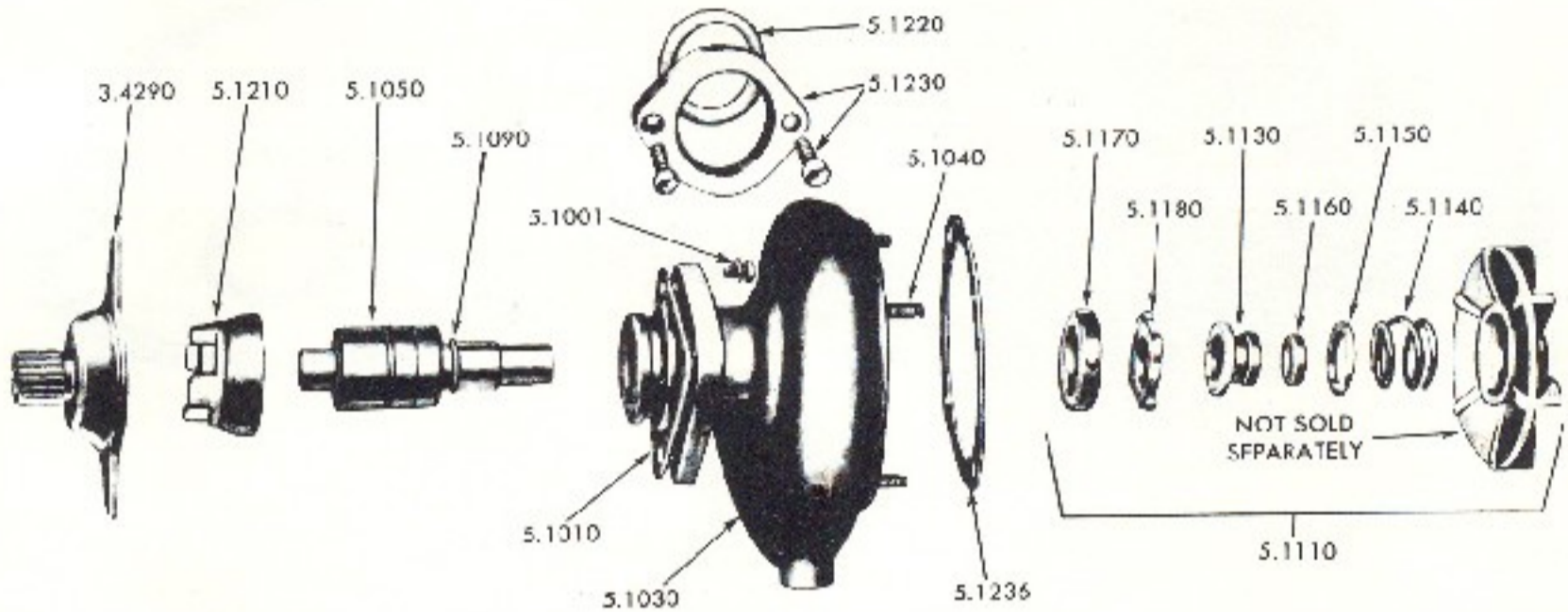
## GROUP 6J-3—ACCESSORY DRIVE



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
1	D5164291	<b>6J-3 ACCESSORY DRIVE</b> Pulley, 5- $\frac{1}{2}$ " dia. single groove	1
-	D124548	Key, 5/32" x $\frac{3}{8}$ " Woodruff	1
2	D5174186	Bolt, pulley to shaft	1
3	D5164292	Washer	1
-	D103322	Lockwasher 7/16"	1
4	D5164286	Hub, drive pulley	1
-	D5176474	Bolt, hub to gear	4
-	D103321	Lockwasher	4
5	D5102565	Retainer assembly	1
6	D5155445	Oil seal	1
-	D5117061	Gasket	1

# PARTS LIST

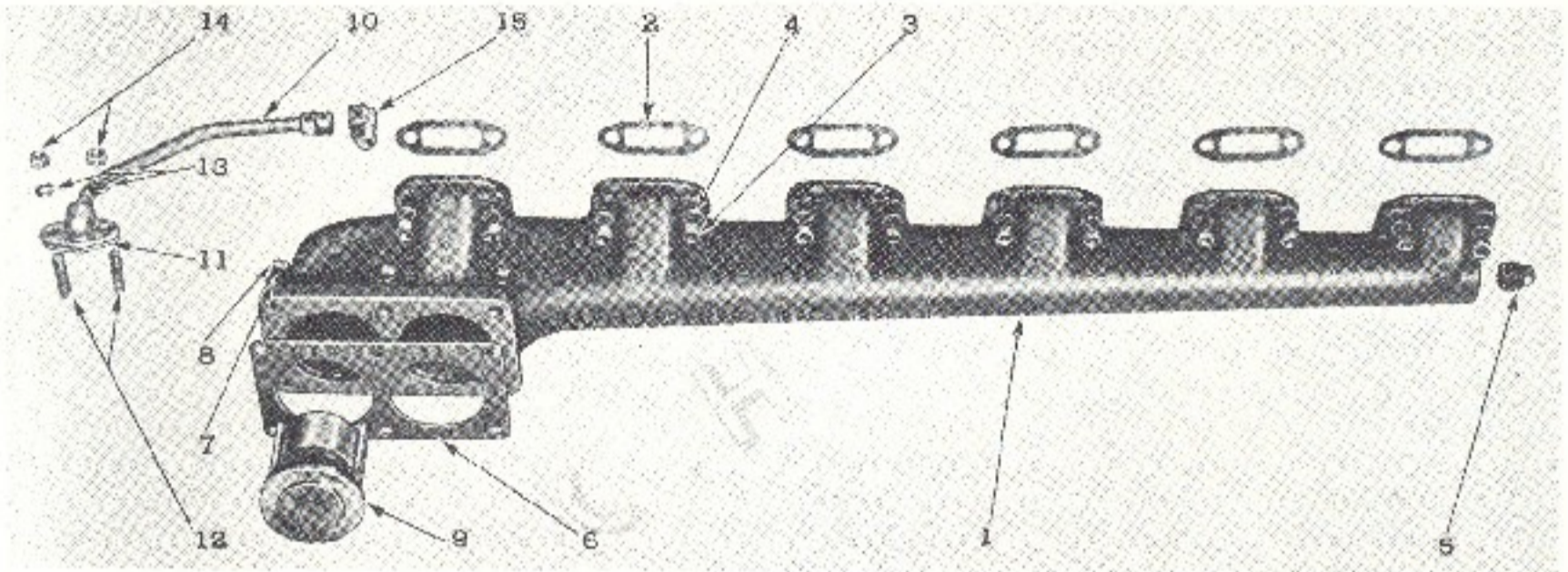
## GROUP 6K2—WATER PUMP



Item No.	Part No.	No. Per	NAME AND DESCRIPTION	No. Per Unit
			<b>FRESH WATER PUMP</b>	
-	D5186575		Pump Assy., fresh water (A & B engine) (includes indented items)	1
5.1001	D5186576		Pump Assy., fresh water (C & D engine)	1
5.1001	D5118219		Bolt (with seal washer)	3
-	D5198307		Reconditioning Kit, water pump (includes pump and cover gaskets, insert, shaft assy., impeller, seal assy. and packing)	As req.
5.1010	D5150193		Gasket, water pump	1
-	D118536		Draincock, 3/8"	1
5.1035	D5186572		Insert, water pump body	1
5.1040	D5150182		Stud, water pump body	4
5.1050	D5136671		Shaft Assy., water pump (includes slinger)	1
5.1090	D5189041		Slinger, water pump shaft	1
5.1110	D5126911		Impeller, water pump	1
-	D5193605		Replacement Kit, water pump seal (includes parts necessary to replace seal)	As req.
5.1130	D5186571		Seal Assy., water pump	1
5.1210	D5114011		Thrower, water pump	1
5.1220	D5150191		Packing, water pump outlet	1
5.1230	D5173730		Flange, water pump outlet packing (1-3/8" bore)	1
5.1230	D179819		Bolt 5/16" - 18 x 1-1/8" hex. hd.	2

# PARTS LIST

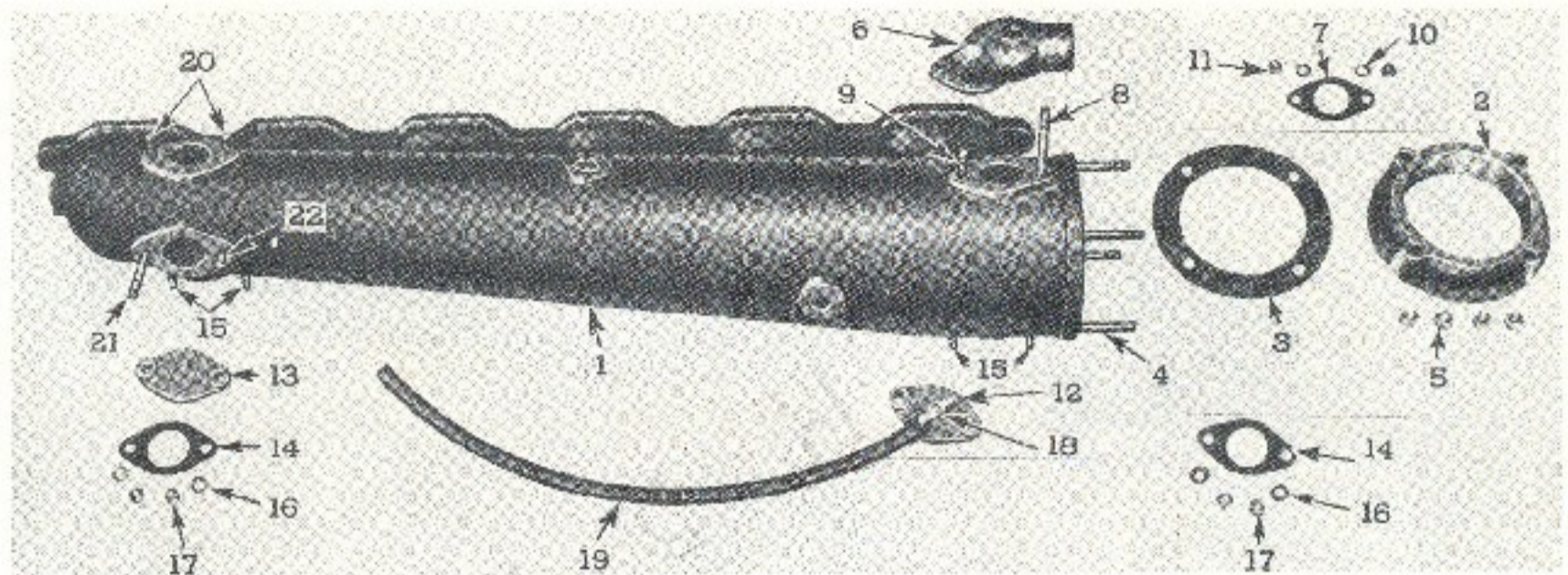
## GROUP 6K3—WATER MANIFOLD AND THERMOSTAT



Item No.	Part No.	NAME AND DESCRIPTION	No. Per. Unit
<b>6K3-1 MANIFOLD, WATER OUTLET</b>			
1	D5164206	Manifold	1
2	D5150361	Gasket	6
3	D117049	Nut, Hex. $\frac{3}{8}$ " — 24 (manifold to head)	12
4	D103321	Washer, lock $\frac{3}{8}$ " (manifold to head)	12
5	D103868	Plug, pipe, square head, $\frac{1}{2}$ "	1
6	D5164209	Gasket, (manifold to water tank)	1
7	D103320	Washer, lock, $\frac{5}{16}$ ", (manifold to water tank)	6
8	D117061	Nut, hex. $\frac{5}{16}$ -- — 18, (manifold to water tank)	6
Notes: For manifold to head studs, see Sub-Group 6A201. Notes: For manifold to water tank studs, see Sub-Group 13D-4.			
<b>6K3-2 THERMOSTAT</b>			
9	D5164208	Thermostat, 160 degrees	2
9	D5172141	Thermostat, 173 degrees	2
<b>6K3-3 TUBE, WATER BY-PASS (WATER MANIFOLD TO OIL 6K3-3 COOLER</b>			
10	D5164543	Tube assembly	1
11	D5163830	Gasket	1
12	D5163866	Stud, $\frac{5}{16}$ " — 18 x $\frac{5}{16}$ " — 18 x $1-\frac{3}{8}$ "	2
13	D103320	Washer, lock, $\frac{5}{16}$ "	2
14	D117061	Nut, Hex., $\frac{5}{16}$ " — 18	2
15	D137425	Elbow, 90 degrees. (tube to water manifold)	1

# PARTS LIST

## GROUP 6L—EXHAUST MANIFOLD

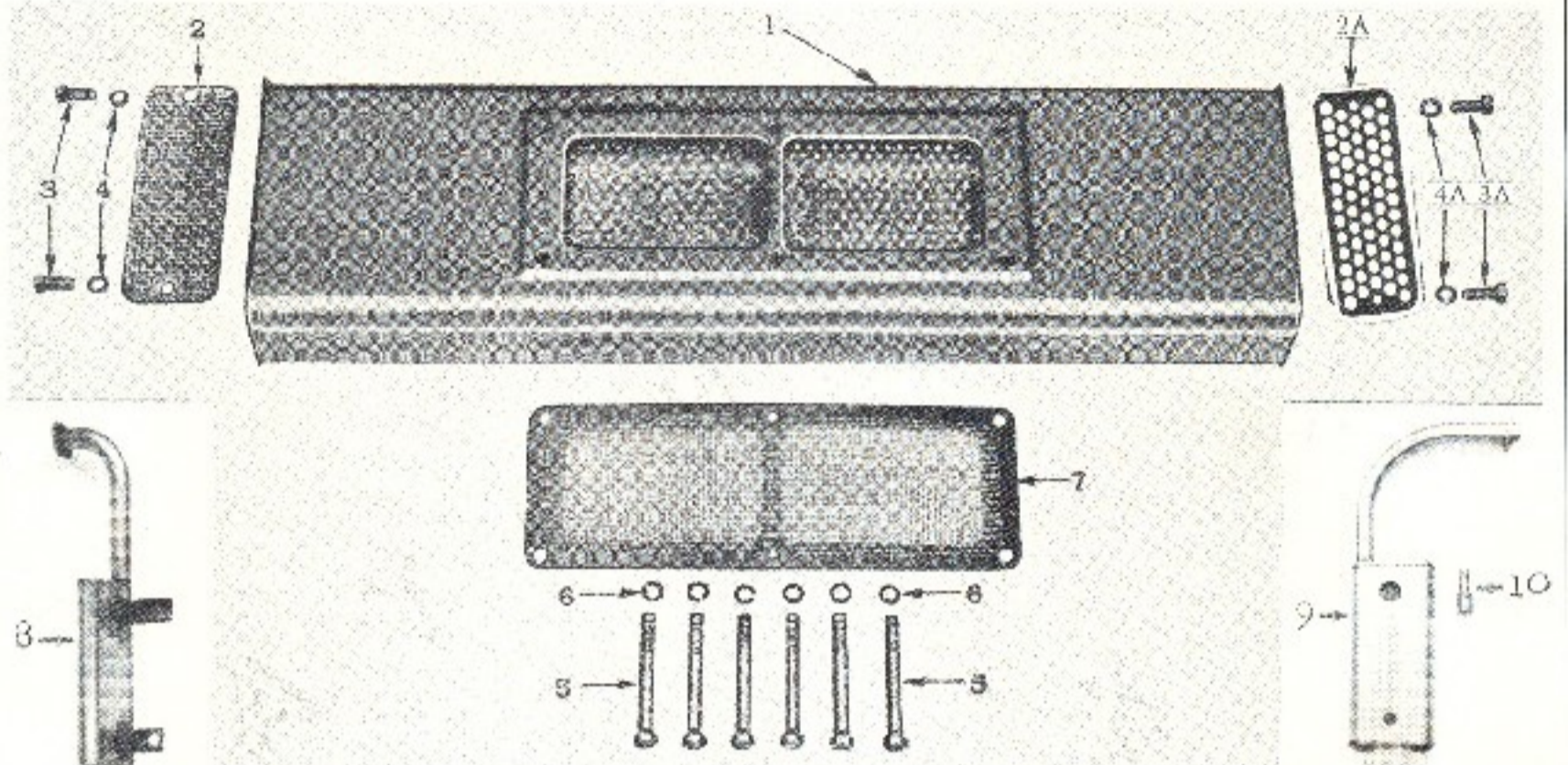


Item No.	Part No.	NAME AND DESCRIPTION	No. Per Item
<b>6L-1 MANIFOLD EXHAUST</b>			
1	D5167140	Manifold assembly 6-71	1
-	D5163809	Manifold assembly 4-71	1
-	D5166485	Manifold assembly 3-71	1
-	D5164177	Gasket, manifold to cyl. hd. 6-71	1
-	D5150195	Gasket, manifold to cyl. hd. 4-71	2
-	D5150194	Gasket, manifold to cyl. hd. 3-71	1
<b>6L-2 FLANGE, EXHAUST MANIFOLD</b>			
2	D5164146	Flange, 4" exhaust 4,6-71	1
-	D5168319	Flange, 3" exhaust 3-71	1
3	D5163811	Gasket 4,6-71	1
-	D5166486	Gasket 3-71	1
4	D5164361	Stud, $\frac{5}{16}$ " — 16 x $\frac{5}{16}$ " — 16 x 2- $\frac{3}{4}$ "	4
5	D5164362	Nut, $\frac{5}{16}$ " — 16	4
<b>6L-3 ELBOW, EXHAUST MANIFOLD WATER OUTLET</b>			
6	D5164183	Elbow	1
7	D5156319	Gasket	1
8	D5164186	Stud, $\frac{5}{16}$ " — 18 x $\frac{5}{16}$ " — 18 x 3- $\frac{5}{16}$ " brass	1
9	D5163867	Stud, $\frac{5}{16}$ " — 18 x $\frac{5}{16}$ " — 18 x 1- $\frac{5}{16}$ " brass	1
10	D5163834	Washer, flat $\frac{5}{16}$ ", brass	2
11	D117061	Nut, Hex. $\frac{5}{16}$ " — 18	2
<b>6L-4 COVER PLATE, EXHAUST MANIFOLD PAD</b>			
12	D5119923	Plate, tapped $\frac{1}{4}$ "	1
13	D5119921	Plate, plain	2
14	D5156319	Gasket	3
15 20 22	D5163867	Stud, $\frac{5}{16}$ " — 18 x $\frac{5}{16}$ " — 18 x 1- $\frac{5}{16}$ "	7
16	D5163834	Washer, flat, $\frac{5}{16}$ "	7
17	D117061	Nut, Hex. $\frac{5}{16}$ " — 18	7
18	D148344	Drain cock	1
19	D5164193	Hose, drain	1
21	D5164199	Stud, $\frac{5}{16}$ " — 18 x $\frac{5}{16}$ " — 18 x 2- $\frac{7}{8}$ "	1



# PARTS LIST

## GROUP 6M3—AIR SILENCER



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6M3-1 SILENCER, AIR</b>			
1	D5189847	Silencer assembly, 6-71 replacement (identify by round holes in intake plate)	1
-	D5187177	Silencer assembly, 4-71, replacement	
-	D5189848	Silencer assembly, 3-71, replacement	
2	D1542882	Screen, end, air intake (use with D1542879)	2
2A	D1543776	Plate, end, air intake (use with D5189849)	2
3	D122126	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x $\frac{3}{8}$ " (use with D1542879)	4
3A	D106973	Bolt, Hex. Hd. $\frac{5}{16}$ " — 18 x $\frac{1}{2}$ " (use with D5189849)	4
4	D103321	Lockwasher $\frac{3}{8}$ " (use with D1542879)	4
4A	D120214	Lockwasher $\frac{5}{16}$ " (use with D5189849)	4
5	D191249	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 3- $\frac{3}{4}$ " (silencer to blower)	6
6	D103321	Lockwasher $\frac{3}{8}$ "	6
<b>6M3-2 SCREEN, AIR INTAKE</b>			
7	D5111881	Screen and gasket 6-71	1
-	D5150780	Screen and gasket 4-71	1
-	D5150779	Screen and gasket 3-71	1
<b>6M3-3 TUBE, ENGINE BREATHER</b>			
8	D5163438	Tube assembly (original part)	1
9	D5168262	Tube assembly (replacement, use with replacement silencer)	1
10	D5168266	Spacer (use with D5168262)	1
-	D179829	Bolt, spacer, Hex. Hd. $\frac{5}{16}$ " — 18 x 2- $\frac{3}{4}$ "	1
-	D120393	Washer $\frac{5}{16}$ " flat	1
-	D5150900	Gasket, breather to governor	1
-	D132046	Screw, #10 — 24 x $\frac{3}{8}$ " Fil. Hd.	2
-	D120217	Lockwasher #10	2

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
21	D5150199	<b>6M4-2 FORK, FUEL TRANSFER PUMP COUPLING</b> Fork Note: For fuel transfer pump coupling disc, see Sub Group 6M7-5	1

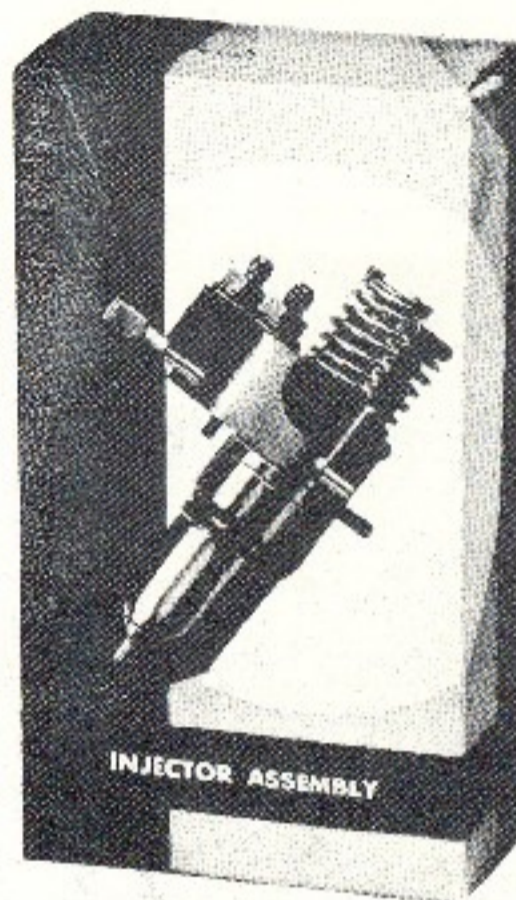
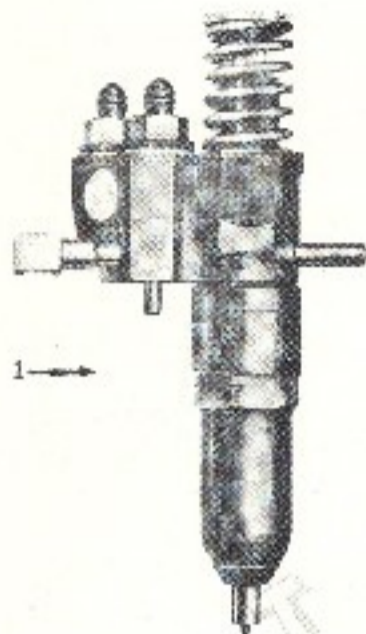
## GROUP 6M4-3—PUMP, FUEL TRANSFER - GEAR TYPE



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6M4-3 PUMP, FUEL TRANSFER GEAR TYPE</b>			
1	D5199561	Pump assembly R.H., HN9	1
1	D5199560	Pump assembly L.H.	1
-	D5195078	Repair kit	As req.
-	D5150193	Gasket, mounting	As req.

# PARTS LIST

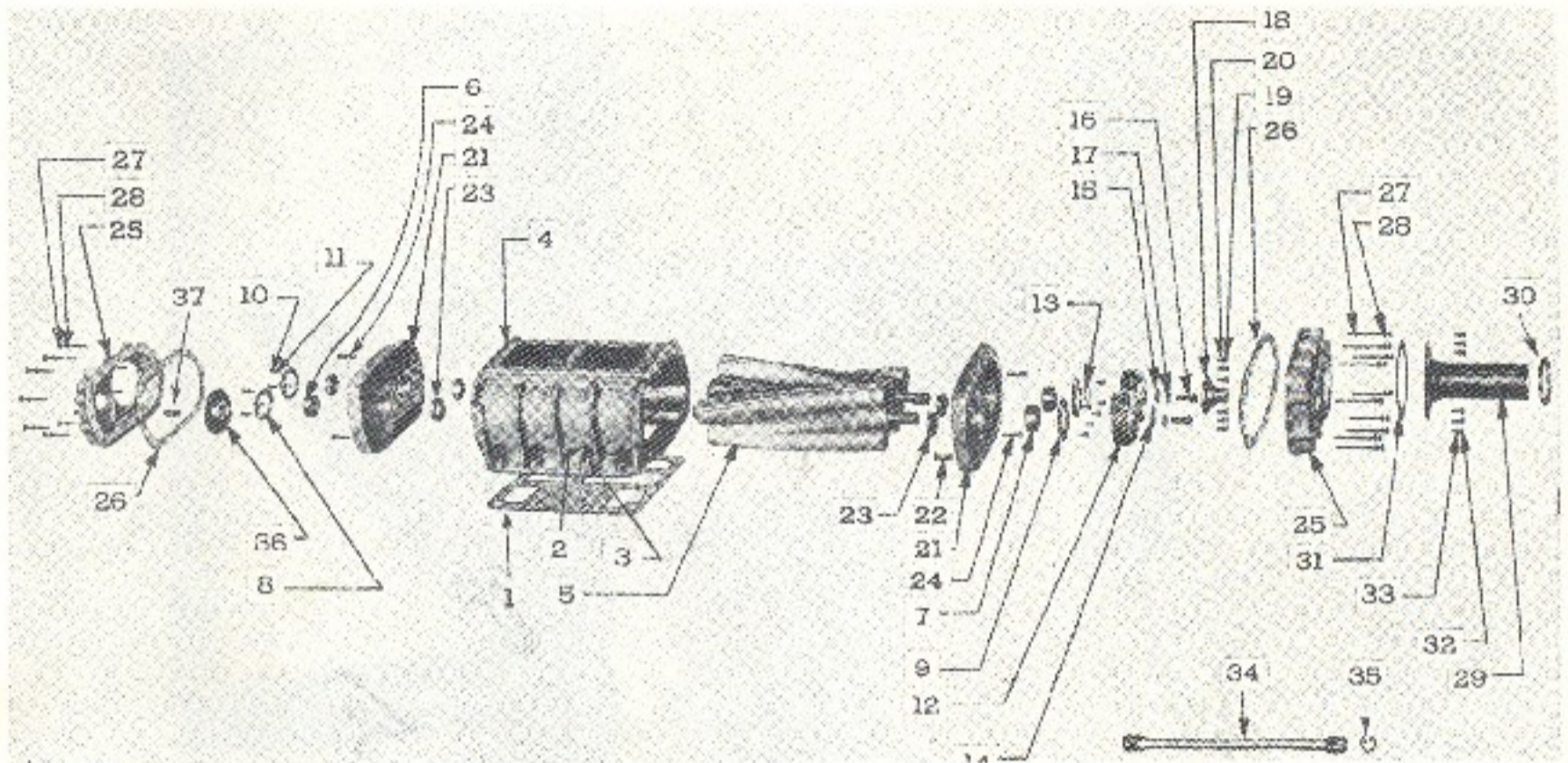
## GROUP 6M6—INJECTOR



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>EXCHANGE REBUILT INJECTOR ASSEMBLY</b>			
1	D5226710	Injector assembly LV 60 MM	6
1	D5227935	Injector assembly LV 70 MM	6
1	D5227231	Injector assembly LV 80 MM	6
1	D522741	Injector assembly LV 90 MM	6
1	D5228310	Injector assembly HV 6	6
1	D5228305	Injector assembly HV 7	6
1	D5228110	Injector assembly HV 8	6
1	D5228380	Injector assembly HV 9	6
<p>New injector assembly same as above.</p>			

# PARTS LIST

## GROUP 6M7—BLOWER



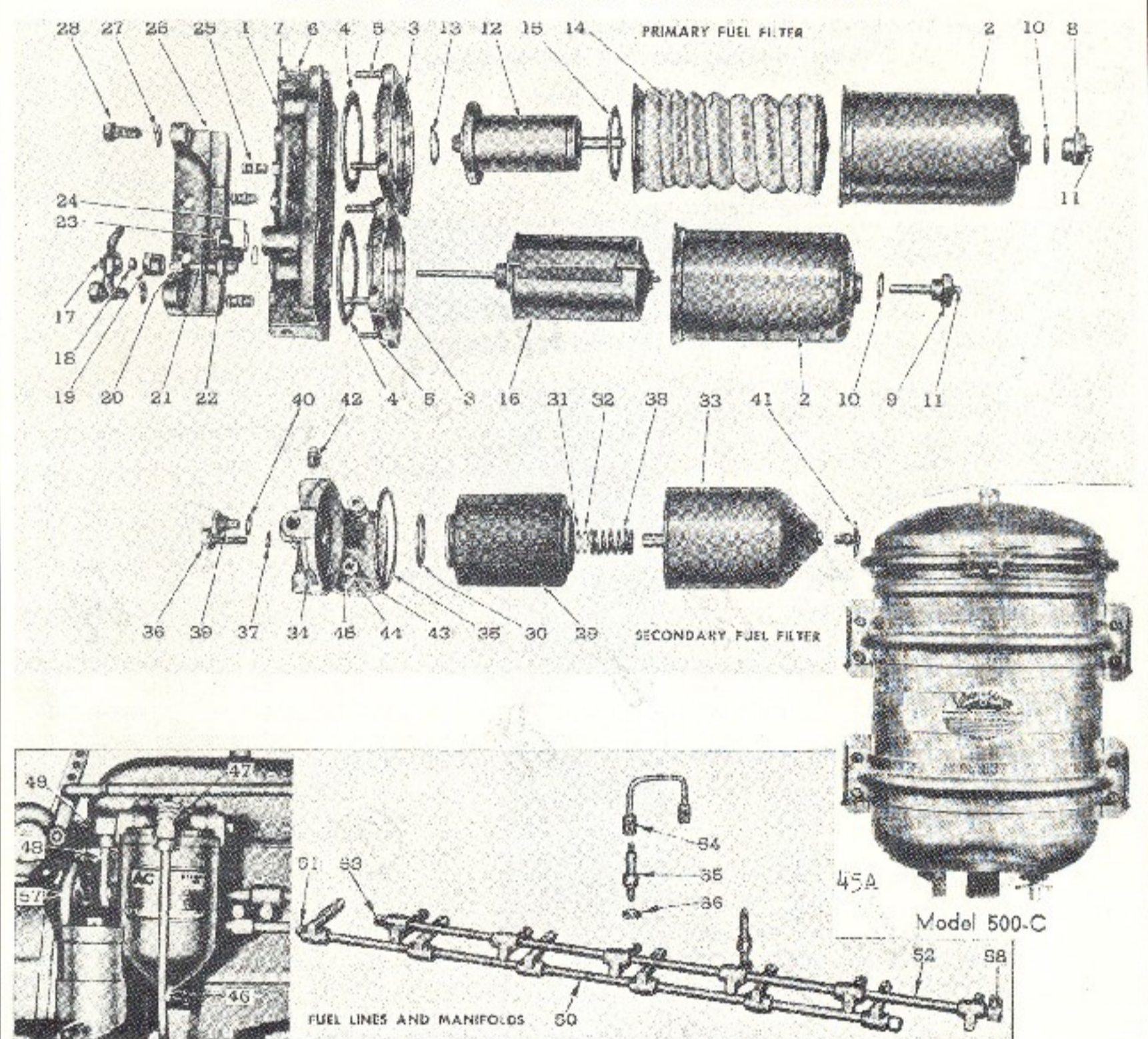
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6M7-1 BLOWER ASSEMBLY</b>	
	D5120993	Blower assembly R.H., IIN9	1
	D5120996	Blower assembly L.H.	1
1	D5115656	Gasket	1
2	D179866	Bolt, Hex. Hd. 7/16" x 14 x 2"	8
3	D5150238	Washer, plain 7/16"	8
		<b>6M7-2 HOUSING, BLOWER</b>	
4	D5111715	Housing	1
		<b>6M7-3 ROTOR, BLOWER</b>	
5	D5192795	Rotor set	1
		<b>6M7-4 BEARING, BLOWER ROTOR</b>	
6	D7451054	Bearing, blower rotor, front	2
7	D9544*8	Bearing, blower rotor, rear	2
8	D5150863	Retainer, front	2
9	D5150222	Retainer, rear	2
10	D179795	Bolt, Hex. Hd. 1/2" — 20 x 3/4"	12
11	D1033*9	Washer, lock 1/4"	12
		<b>6M7-5 GEAR, BLOWER ROTOR</b>	
12	D5192234	Gear set	1
13	D5150372	Shim, .002"	As req.
13	D5153938	Shim, .003"	As req.
13	D5150855	Shim, .005"	As req.
13	D5150856	Shim, .010"	As req.
14	D5154401	Disc (fuel pump coupling)	1
15	D5154400	Washer (blower gear retainer)	1
16	D5154399	Bolt, special, 1/2" — 20 x 1-1/4"	2
17	D5154398	Washer, lock 1/2" external tooth, blower gear	2

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6M7-6 HUB, BLOWER ROTOR GEAR</b>			
18	D5192751	Hub kit, blower rotor gear	1
	D5173366	Hub, blower rotor gear	1
	D5173365	Plate, blower rotor gear hub	2
	D5173362	Bolt (plate to hub)	3
	D5173363	Bolt (plate to gear)	3
	D103320	Lockwasher 5/16"	6
	D102393	Washer 5/16" flat	6
	D5173364	Spacer blower rotor gear hub	3
<b>6M7-7 END PLATE, BLOWER HOUSING</b>			
21	D5150218	Plate assembly	2
22	D5150542	Dowel, special 5/16" x 2"	4
23	D5138710	Oil seal, Std.	4
23A	D5192438	Oil seal, O.S. use with D5192439 spacer	4
23B	D5192439	Spacer, O.S. use with D5192438 seal	4
24	D117296	Bolt, fillister head, 5/16" — 18 x 1-1/2"	4
<b>6M7-8 COVER, BLOWER HOUSING END PLATE</b>			
25	D5150233	Cover	2
26	D5150234	Gasket	2
27	D186270	Bolt, Hex. Hd. 5/16" — 18 x 3-1/2"	20
28	D103320	Washer, lock 5/16"	18
<b>6M7-9 COVER AND SHAFT, BLOWER DRIVE</b>			
29	D5172869	Cover	1
30	D5172865	Seal	1
	D5173695	Clamp	1
31	D5150246	Gasket	1
32	D179816	Bolt, Hex. Hd., 5/16" — 18 x 3/4"	6
33	D103320	Washer, lock 5/16"	6
34	D5193476	Shaft, 11-15/16" L.	1
35	D5167727	Ring	1
<b>6M7-10 SHAFT &amp; COUPLING ASSEMBLY WATER PUMP INTERMEDIATE</b>			
36	D5122069	Water pump coupling assembly (nylon)	1
	D5192821	Water pump drive and rotor coupling kit	
<b>6M7-11 BLOWER KITS</b>			
	D5192754	Blower installation kit (includes all parts required for installation)	1
	D5192796	Blower repair kit (includes two of item 6, two of item 7, one set of item 13, two of item 17, four of item 23A, four of item 23B, and two of item 26.)	1

# PARTS LIST

## GROUP 6M8—FUEL FILTERS AND LINES



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6M8-1 FILTER, FUEL (PRIMARY)</b>	
-	D5164336	Filter assembly (includes next 28 items)	1
1	D5190459	Cover	1
2	D5190456	Shell	2
3	D2038805	Ring, clamping	2
4	D5190457	Gasket	2
5	D103175	Stud, 5/16" — 18 x 5/16" — 24 x 1-1/8"	8
6	D103340	Washer, flat 5/16"	8
7	D103025	Nut, Hex. 5/16" — 24	8
8	D5190458	Plug, drain	1
9	D5190567	Plug assembly, drain	1
10	D5190566	Gasket, drain plug	2
11	D103865	Plug, pipe, sq head	2
12	D5164437	Element and gasket ass'y. (incl. Items 13 and 15)	1

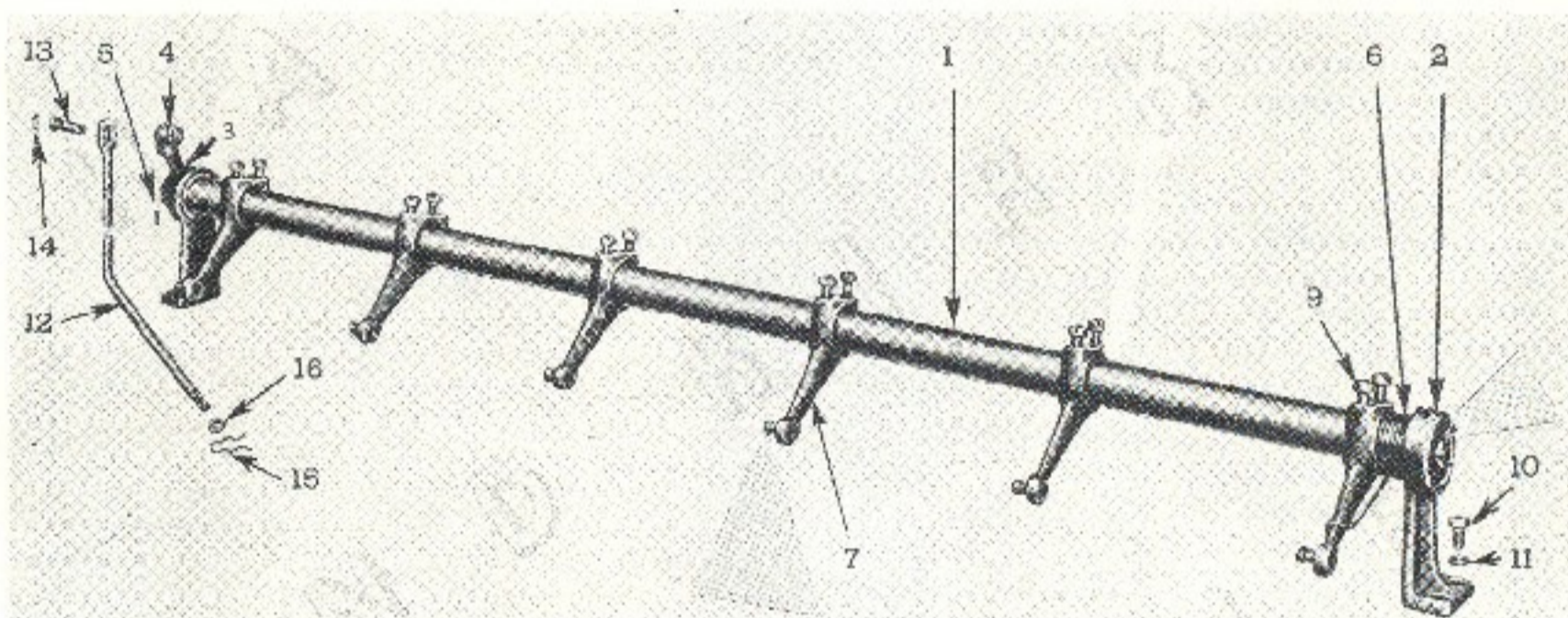
# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6M8-1 FILTER, FUEL (PRIMARY) (cont.)</b>			
13	D5190565	Gasket (element to cover)	1
14	D5164436	Element and gasket assembly (includes next item plus D5190565 gasket)	1
15	D5190564	Gasket, (fabric element to metal element)	1
16	D5164438	Element and knife assembly	1
17	D2038808	Handle assembly, knife	1
18	D103024	Nut, Hex., 1/4" — 28	1
19	D2038813	Nut, stuffing box	1
20	D2038812	Gland, stuffing box	1
21	D5190460	Packing, stuffing box	1
22	D2038807	Stuffing box and spring assembly	1
23	D292460	Plug, filler	2
24	D689103	Gasket, filler plug	2
25	D2038806	Valve, vent	3
26	D5190568	Bracket, mounting	1
27	D103323	Washer, lock 1/4"	2
28	D122408	Bolt, Hex. Hc. 1/2" — 13 x 1"	2
<b>6M8-2 FILTER, FUEL (SECONDARY)</b>			
*	D853695	Filter assembly (includes next 14 items)	1
29	D853614	Element (incl. next 2 items plus D1503541 gasket)	1
30	D853572	Gasket, top	1
31	D1595170	Gasket, bottom	1
32	D1595137	Washer, bottom gasket	1
33	D1503533	Shell assembly	1
34	D1503534	Cover	1
35	D1503541	Gasket, cover	1
36	D853634	Screw, cover	1
37	D853562	Gasket, cover screw	1
38	D1503540	Spring, element	1
39	D1503537	Plug	1
40	D1503538	Gasket, plug	1
41	D114981	Drain cock	1
42	D103878	Plug, pipe sq. hd. 1/4"	1
43	D5164167	Stud, 3/8" — 16 x 1-3/8"	2
44	D103321	Washer, lock, 3/8"	2
45	D117062	Nut, Hex. 3/8" — 16	2
*		For complete replacement use AC-T58	
<b>LUBER-FINER FILTER ASSEMBLY</b>			
45A	D2760	Model 500-C primary fuel filter assembly	1
-	D2162	Refining pack fuel oil filter element for D2760	1
<b>6M8-3 SUPPLY TUBES, FUEL</b>			
-	D5164325	Hose, fuel pump inlet	1
46	D5164402	Tube assembly, fuel pump to secondary filter	1
47	D137423	Elbow, 90 degrees, 3/8" tube (tube to pump and filter)	2
48	D5164308	Tube assembly, secondary filter to manifold	1
49	D137423	Elbow, 90 degrees, 3/8" tube (tube to filter)	1
-	D5153297	Connector, inverted (tube to manifold)	1

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6M8-4 MANIFOLD, FUEL</b>			
50	D5150561	Manifold, lower supply	1
51	D103878	Plug, sq. hd. 1/4" (end of manifold)	1
52	D5150562	Manifold, upper return	1
53	D103878	Plug, sq. hd. 1/4" (end of manifold)	1
<b>6M8-5 PIPE, FUEL MANIFOLDS TO INJECTOR</b>			
54	D5151121	Pipe assembly	12
55	D5150566	Connector and nut assembly	12
56	D5150568	Washer	12
<b>6M8-6 DRAIN TUBES, FUEL</b>			
57	D5164326	Tube assembly, manifold outlet	1
58	D5157922	Elbow (tube to manifold) restricted orifice	1

## GROUP 6N3—INJECTOR AND GOVERNOR TUBE

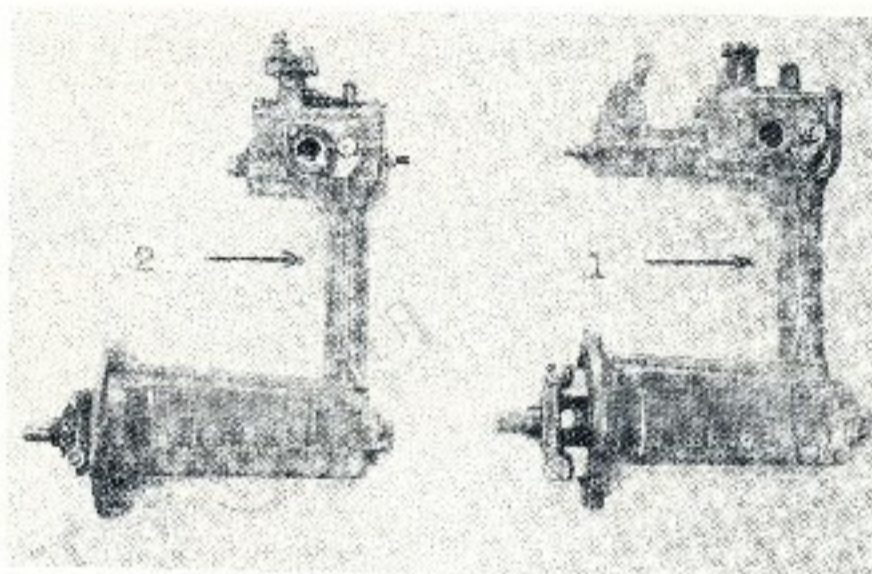


Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6N3-1 TUBE, INJECTOR AND GOVERNOR CONTROL</b>			
1	D5190544	Tube	1
2	D5130509	Bracket	2
3	D5150259	Pin, injector control tube end	1
4	D5150263	Lever, control tube	1
5	D142486	Pin, groove, 1/8" x 3/4"	1
6	D5150994	Spring	1
7	D5150260	Lever assembly, rack control	6
9	D5176226	Screw, fillister head 1/4" — 20 x 3/4"	12
10	D186630	Bolt 1/2" — 20 x 5/8" Hex. Hd.	4
11	D103319	Washer, lock, 1/2"	4
<b>6N3-2 LINK, GOVERNOR CONTROL</b>			
12	D5150990	Link	1
13	D5150265	Pin, clevis	1
14	D103361	Pin, cotter 1/16" x 1/8"	2
15	D142583	Spring, retainer	1
16	D5150941	Washer, retainer	1



# PARTS LIST

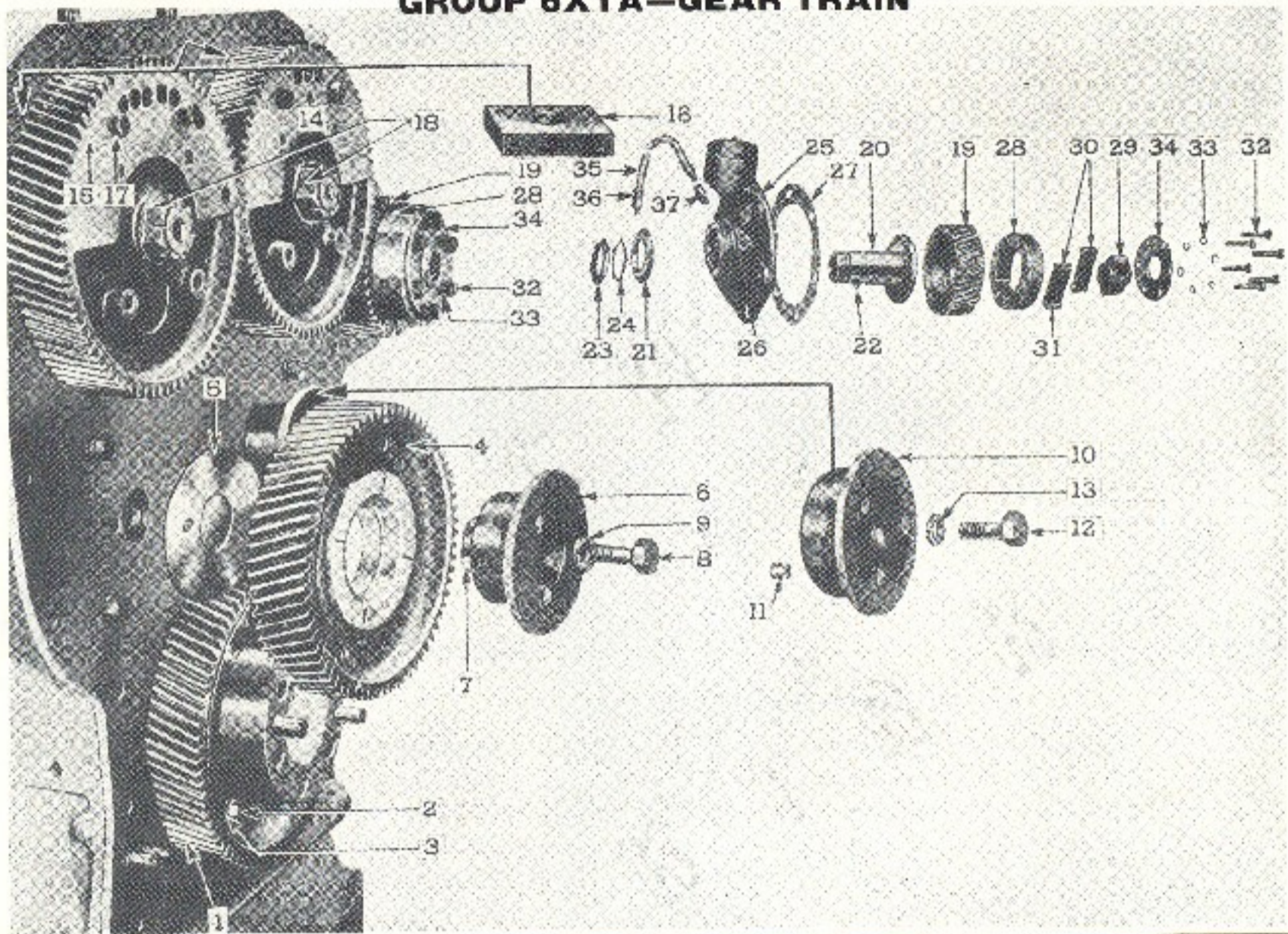
## GROUP 6N4—GOVERNOR



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>N4-1 GOVERNOR - MECHANICAL</b>			
1	D5158906-VS	Governor ass'y. variable speed, 1800 RPM, 6071 R.H.	1
-	D5158905-VS	Governor ass'y. variable speed, 1800 RPM, 6-71 L.H.	
-	D5158907-VS	Governor ass'y. variable speed, 1800 RPM, 4-71 R.H.	
-	D5158908-VS	Governor ass'y. variable speed, 1800 RPM, 4-71 L.H.	
-	D5158909-VS	Governor ass'y. variable speed, 1800 RPM, 3-71 R.H.	
-	D5158910-VS	Governor ass'y. variable speed, 1800 RPM, 3-71 L.H.	
2	D5158906-LS	Governor ass'y. limiting speed, 1800 RPM, 6-71 R.H.	1
-	D5158905-LS	Governor ass'y. limiting speed, 1800 RPM, 6-71 L.H.	
-	D5158907-LS	Governor ass'y. limiting speed, 1800 RPM, 4-71 R.H.	
-	D5158908-LS	Governor ass'y. limiting speed, 1800 RPM, 4-71 L.H.	
-	D5158909-LS	Governor ass'y. limiting speed, 1800 RPM, 3-71 R.H.	
-	D5158910-LS	Governor ass'y. limiting speed, 1800 RPM, 3-71 L.H.	
(see price schedule for exchange basis)			
-	D5150246	Gasket, governor to blower	1
-	D5123812	Gasket, governor to cylinder head	1
-	D148402	Bearing (needle type)	3
-	D5150889	Gasket, cover to housing	1
-	D9431894	Bearing, operating shaft upper	1
-	D5152944	Gasket, spring cover	1
-	D9434171	Bearing, thrust	1
-	D907674	Bearing, end	1
-	D5150890	Gasket, cover to weight housing and weight housing to control housing	2

# PARTS LIST

## GROUP 6X1A—GEAR TRAIN



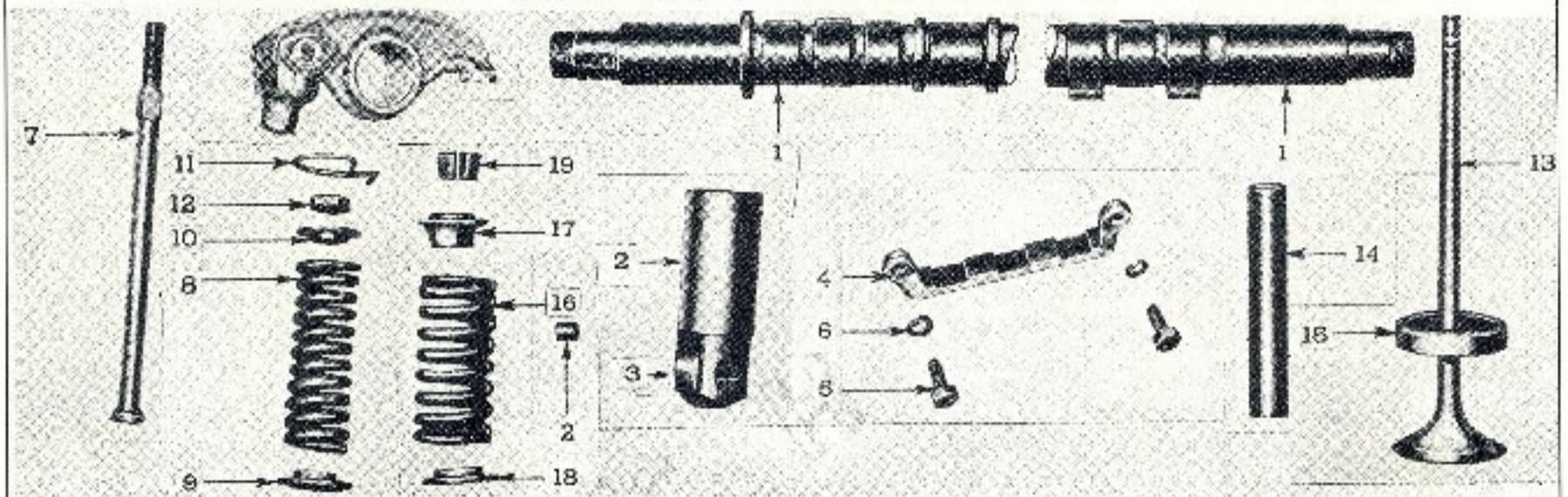
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6X1A-1 GEAR, CRANKSHAFT</b>	
1	D5158495	Gear, cast iron, 19 degrees (original) HN9	1
2	D5150271	Bolt, special, Hex. Hd. $\frac{5}{8}$ " — 24 x 1-3/16"	6
3	D103321	Washer, lock, $\frac{5}{8}$ "	6
-	D5113814	Gear, steel, R.H. Helix, C Model, HN9	1
-	D5113815	Gear, steel, L.H. Helix, A Model	1
		<b>6X1A-2 GEAR, IDLER</b>	
4	D5158568	Gear ass'y., cast iron, 19 degrees (original) HN9	1
5	D5150273	Spacer	1
-	D5199334	Gear ass'y., steel, L.H. Helix, C Model HN9, (new style)	1
-	D5199327	Gear ass'y., steel, R.H. Helix, A Model (new style)	1
-	D7451948	Bearing assembly, idler gear	1
-	D5176998	Retainer, idler gear bearing	1
-	D5103534	Bolt	6
		<b>6X1A-3 HUB AND DOWEL, IDLER GEAR</b>	
6	D5150274	Hub and dowel assembly, cast iron gear	1
7	D5151444	Pin, dowel 25/64" dia. x 9/16" long	1
8	D186689	Bolt, Hex. Hd. $\frac{1}{2}$ " — 13 x 2"	1
9	D103323	Washer, lock	1
-	D5130135	Hub assembly, idler gear, steel gear train	

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>6X1A-4 SPACER AND DOWEL, IDLER GEAR HOLE</b>	
10	D5150277	Spacer and dowel assembly	1
11	D5151444	Pin, dowel, 25/64" dia. 9/16" long	1
12	D186689	Bolt, Hex. Hd. 1/2" — 13 x 2"	1
13	D103323	Washer, lock 1/2"	1
-	D5192568	Spacer and dowel assembly, steel gear train	1
		<b>6X1A-5 GEAR, BALANCER OR CAMSHAFT</b>	
14	D5153271	Gear, L.H. Helix, cast iron, 19 degrees (original) HN9	1
15	D5153270	Gear, R.H. Helix, cast iron, 19 degrees (original)	1
16	D5150090	Weight, balance (rear)	4
17	D181374	Bolt, Hex. Hd., 3/8" — 24 x 1-1/2" weight to gear	4
18	D5154318	Nut, special, Hex., 1-1/8" — 18 thread	2
-	D5121815	Gear, R.H. Helix, steel	1
-	D5121816	Gear, L.H. Helix, steel	1
-	D5121970	Weight, rear balancer, 6-71, new style gears	2
-	D5121969	Weight, rear balancer, 4-71, new style gears	2
-	D5121968	Weight, rear balancer, 3-71, new style gears	2
-	D181370	Bolt, rear balancer weight, 6-71	4
-	D181371	Bolt, rear balancer weight, 4-71	4
-	D181365	Bolt, rear balancer weight, 3-71	4
-	D5176474	Bolt	8
-	D5172734	Retainer, cam and balancer shaft nut	2
		<b>6X1A-6 GEAR, BLOWER DRIVE</b>	
19	D5158478	Gear, R.H. Helix, 19 degrees, cast iron, Model C, (original) HN9	1
-	D5153263	Gear, L.H. Helix, 19 degrees, cast iron, Model A	1
-	D5122910	Gear, R.H. Helix, steel, Model C., (new style) HN9	1
-	D5122911	Gear, L.H. Helix, steel, Model A., (new style)	1
20	D5150279	Hub, blower drive gear	1
21	D5158901	Washer, thrust, 1-1/8" I.D. x 2-7/16" O.D. x 9/32" thick	1
22	D169067	Ball, 7/32" dia.	1
23	D5152804	Nut, Hex., lock, 1-1/2" — 16	1
24	D5150281	Washer, lock, 1-1/2"	1
		<b>6X1A-7 SUPPORT, BLOWER DRIVE GEAR</b>	
25	D5122528	Support assembly, blower drive gear hub, incl. bearings	1
-	D5150285	Bearing, blower drive gear hub support	1
26	D5167553	Plug, pipe, slotted headless 1/2" pipe thread	1
27	D5150286	Gasket	1
		<b>6X1A-8 COUPLING, BLOWER DRIVE</b>	
-	D5150344	Coupling assembly	1
28	D5150345	Support	1
29	D5150348	Cam	1
30	D5196314	Spring pack	1
31	D5150346	Seat, spring	4
32	D5150350	Bolt, Hex. Hd., 5/16" — 24 x 1-15/16"	6
33	D103320	Washer, lock 5/16"	6
34	D5150349	Retainer, coupling	1
		<b>6X1A-9 PIPE, BLOWER DRIVE BEARING LUBRICATING OIL</b>	
35	D5150431	Pipe assembly	1
36	D143342	Elbow, 90 degrees, 1/2" pipe thread	1
37	D137421	Elbow, 90 degrees, 1/2" pipe thread	1

# PARTS LIST

## GROUP 6X1B—CAMSHAFT—PUSH ROD—EXHAUST VALVE



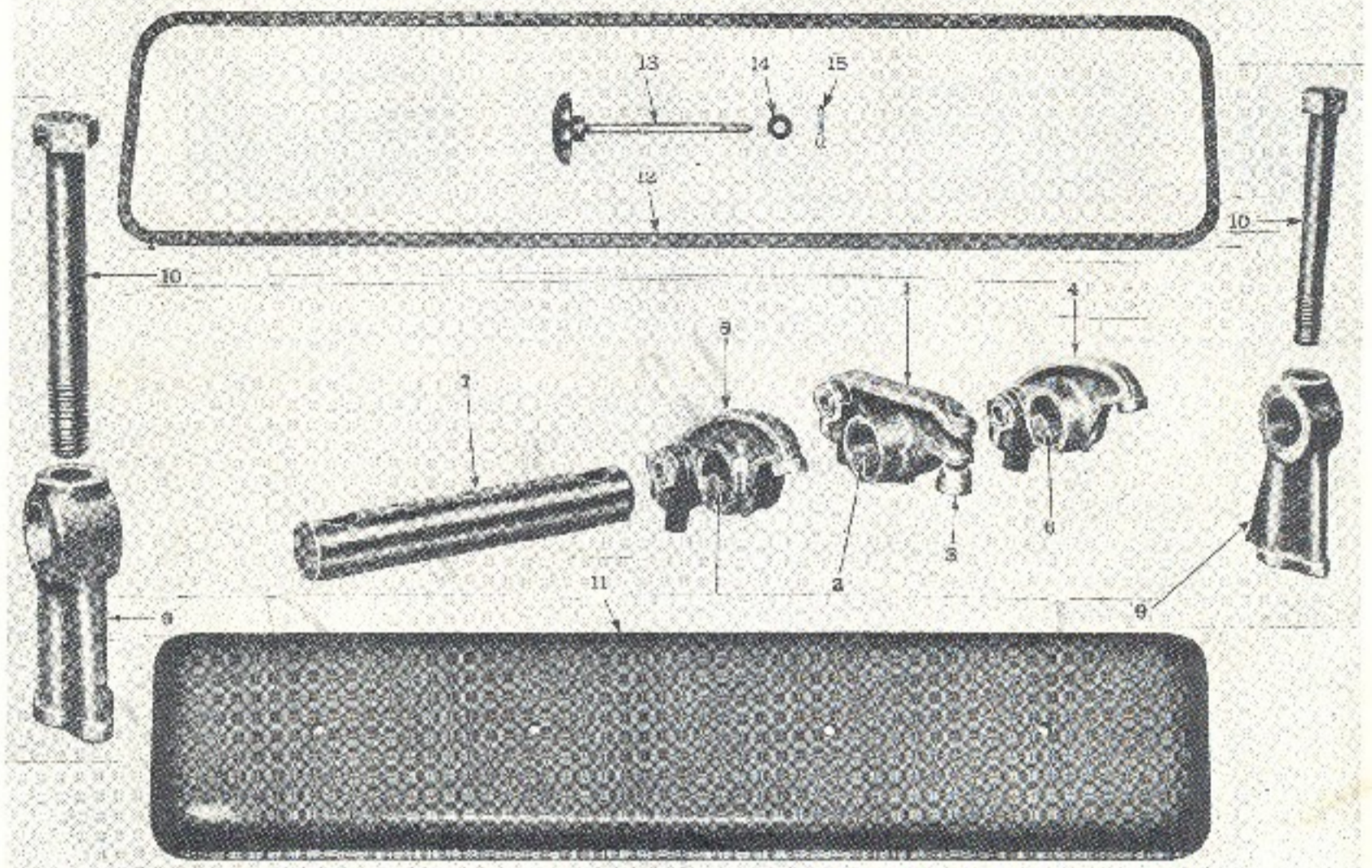
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6X1B-A CAMSHAFT</b>			
1	D5122486	Camshaft assembly 6-71 R.H., HN9	1
-	D5179962	Camshaft assembly 6-71 L.H.	
-	D5122487	Camshaft assembly 4-71 R.H.	
-	D5185745	Camshaft assembly 3-71 R.H.	
<b>6X1B-2 FOLLOWER ASSEMBLY CAM</b>			
2	D5115087	Follower assembly cam	18
3	D5195220	Roller set, cam follower	18
4	D5150298	Guide, cam follower	6
5	D186630	Bolt, Hex. Hd., 1/4" — 20 x 3/8"	12
6	D103319	Washer, lock 1/4"	12
<b>6X1B-3 ROD, PUSH</b>			
7	D5128640	Rod, push	18
8	D5186858	Spring, push rod	18
9	D5123250	Seat, lower, push rod spring	18
10	D5150302	Seat, upper, push rod spring	18
11	D5150303	Retainer, spring	18
12	D5151601	Nut, push rod locking	18
<b>6X1B-4 VALVES, EXHAUST</b>			
13	D5192718	Valve, with locks, 45 degrees plain	12
-	D5193197	Valve, with locks, 30 degrees plain	
14	D5120930	Guide, prereamed	12
15	D5178540	Insert, standard, 45 degrees	12
-	D5191176	Insert, .010 O.S. 45 degrees	
-	D5131096	Insert, standard, 30 degrees	
-	D5198230	Insert, .010 O.S. 30 degrees	
<b>6X1B-5 SPRING, EXHAUST VALVE</b>			
16	D5150289	Spring	12
17	D5155210	Cap. spring (original)	12
-	D5150291	Cap. spring (new style)	12
18	D5155207	Seat, spring (original)	12
-	D5150292	Seat, spring (new style)	12
19	D838029	Lock, (halves) valve	24

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6X1A-4 SPACER AND DOWEL, IDLER GEAR HOLE</b>			
10	D5150277	Spacer and dowel assembly	1
11	D5151444	Pin, dowel, 25/64" dia. 9/16" long	1
12	D186689	Bolt, Hex. Hd. 1/2" — 13 x 2"	1
13	D103323	Washer, lock 1/2"	1
-	D5192568	Spacer and dowel assembly, steel gear train	1
<b>6X1A-5 GEAR, BALANCER OR CAMSHAFT</b>			
14	D5153271	Gear, L.H. Helix, cast iron, 19 degrees (original) HN9	1
15	D5153270	Gear, R.H. Helix, cast iron, 19 degrees (original)	1
16	D5150090	Weight, balance (rear)	4
17	D181374	Bolt, Hex. Hd. 3/8" — 24 x 1-1/2" weight to gear	4
18	D5154318	Nut, special, Hex., 1-1/8" — 18 thread	2
-	D5121815	Gear, R.H. Helix, steel	1
-	D5121816	Gear, L.H. Helix, steel	1
-	D5121970	Weight, rear balancer, 6-71, new style gears	2
-	D5121969	Weight, rear balancer, 4-71, new style gears	2
-	D5121968	Weight, rear balancer, 3-71, new style gears	2
-	D181370	Bolt, rear balancer weight, 6-71	4
-	D181371	Bolt, rear balancer weight, 4-71	4
-	D181365	Bolt, rear balancer weight, 3-71	4
-	D5176474	Bolt	8
-	D5172734	Retainer, cam and balancer shaft nut	2
<b>6X1A-6 GEAR, BLOWER DRIVE</b>			
19	D5158478	Gear, R.H. Helix, 19 degrees, cast iron, Model C, (original) HN9	1
-	D5153263	Gear, L.H. Helix, 19 degrees, cast iron, Model A	1
-	D5122910	Gear, R.H. Helix, steel, Model C., (new style) HN9	1
-	D5122911	Gear, L.H. Helix, steel, Model A., (new style)	1
20	D5150279	Hub, blower drive gear	1
21	D5158901	Washer, thrust, 1-1/8" I.D. x 2-7/16" O.D. x 9/32" thick	1
22	D169067	Ball, 7/32" dia.	1
23	D5152804	Nut, Hex., lock, 1-1/8" — 16	1
24	D5150281	Washer, lock, 1-1/8"	1
<b>6X1A-7 SUPPORT, BLOWER DRIVE GEAR</b>			
25	D5122528	Support assembly, blower drive gear hub, incl. bearings	1
-	D5150285	Bearing, blower drive gear hub support	1
26	D5167553	Plug, pipe, slotted headless 1/8" pipe thread	1
27	D5150286	Gasket	1
<b>6X1A-8 COUPLING, BLOWER DRIVE</b>			
-	D5150344	Coupling assembly	1
28	D5150345	Support	1
29	D5150348	Cam	1
30	D5196314	Spring pack	1
31	D5150346	Seat, spring	4
32	D5150350	Bolt, Hex. Hd., 5/16" — 24 x 1-15/16"	6
33	D103320	Washer, lock 5/16"	6
34	D5150349	Retainer, coupling	1
<b>6X1A-9 PIPE, BLOWER DRIVE BEARING LUBRICATING OIL</b>			
35	D5150431	Pipe assembly	1
36	D143342	Elbow, 90 degrees, 1/4" pipe thread	1
37	D137421	Elbow, 90 degrees, 1/8" pipe thread	1

# PARTS LIST

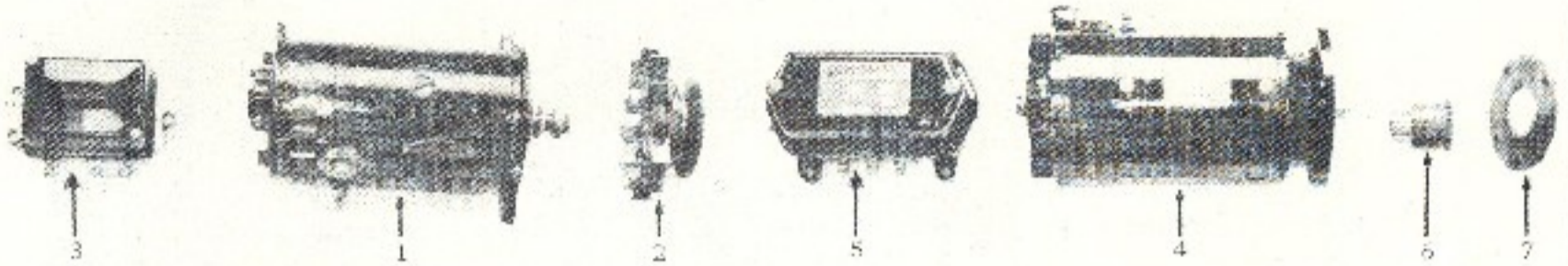
## GROUP 6X3—VALVE AND INJECTOR ROCKER ARM AND COVER



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6X3-1 ARM, INJECTOR ROCKER</b>			
1	D5179954	Arm assembly (includes next 2 items)	6
2	D5150318	Bushing	6
3	D5150319	Ball and seat assembly (serviced as an assembly)	6
<b>6X3-2 ARM, EXHAUST VALVE</b>			
4	D5150304	Arm assembly, left	6
5	D5150305	Arm assembly, right	6
6	D5122445	Bushing, 3/8" I.D. x 15/16" O.D. 27/32" long	12
<b>6X3-3 SHAFT, ROCKER</b>			
7	D5150322	Shaft and plug assembly (includes next item)	6
9	D5150324	Bracket	12
10	D5150325	Bolt, special, Hex. Hd. 1/2" — 13 x 4-1/4" (bracket to head)	12
<b>6X3-4 COVER, ROCKER</b>			
11	D5178383	Cover 6-71	1
-	D5178382	Cover 4-71	1
-	D5178381	Cover 3-71	1
12	D5143407	Gasket 6 71	1
-	D5143406	Gasket 4-71	1
-	D5143405	Gasket 3-71	1
13	D5150330	Bolt assembly (cover to cyl. head)	4
14	D5150333	Washer	4
15	D103385	Pin, cotter 3/8" x 1"	4

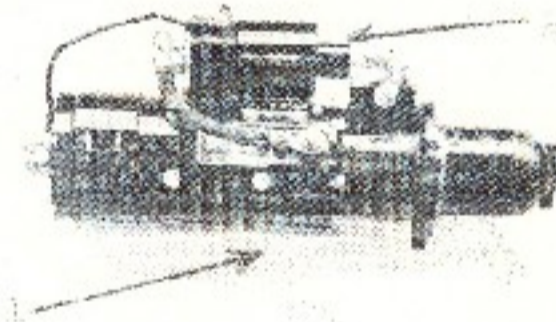
# PARTS LIST

## GROUP 6Y1—BATTERY CHARGING GENERATOR

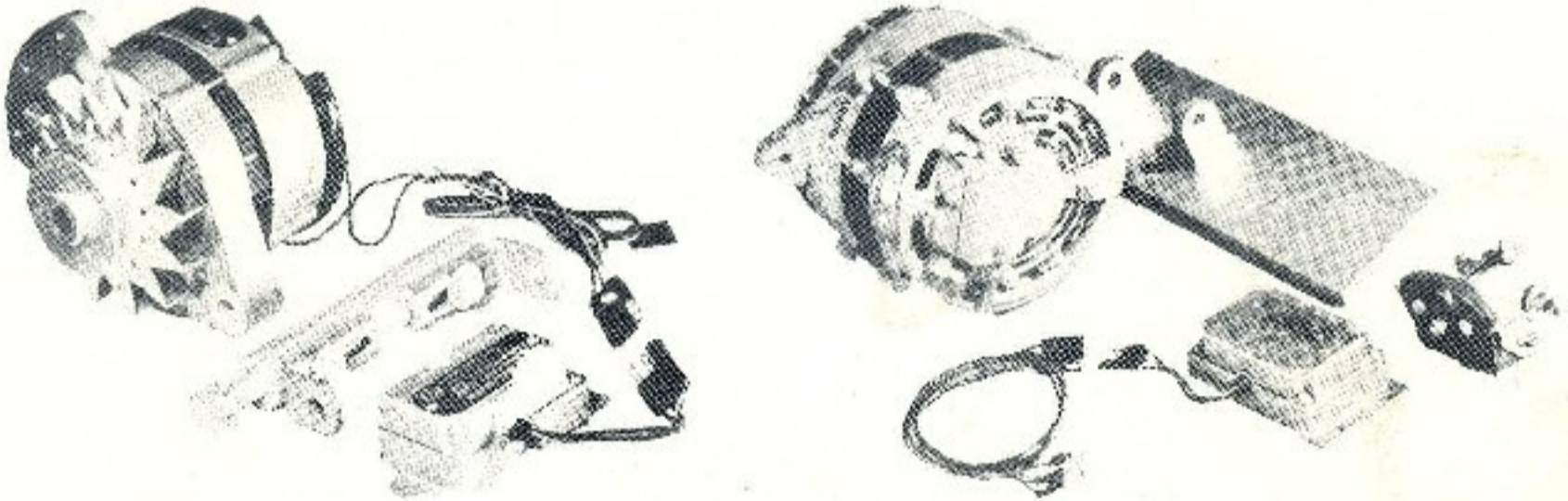


Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6Y1-1 GENERATOR</b>			
1	D1102963	Generator ass'y., 12 volt, 18 amp. (incl. Item 2)	1
2	D1001000	Pulley and fan assembly	1
-	D1866148	Brush	2
-	D5164293	Belt, generator drive	1
3	D654	Regulator, 12 volt	1
4	D1117222	Generator ass'y., end mount, 32 volt, 20 amp.	1
5	D5643	Regulator, 32 volt, 20 amp.	1
6	D-D346-230	Drive coupling	1
7	D5153533	Drive plate ass'y. for C.I. gear train	1
-	D5155493	Bolt, drive plate attaching (use with D5153533)	4
7	D5153449	Drive plate for new style gear train	1
-	D5172734	Retainer for new style gear train	1
-	D5176474	Bolt, drive plate attaching (use with D5153449)	4

## GROUP 6Y2—STARTING MOTOR

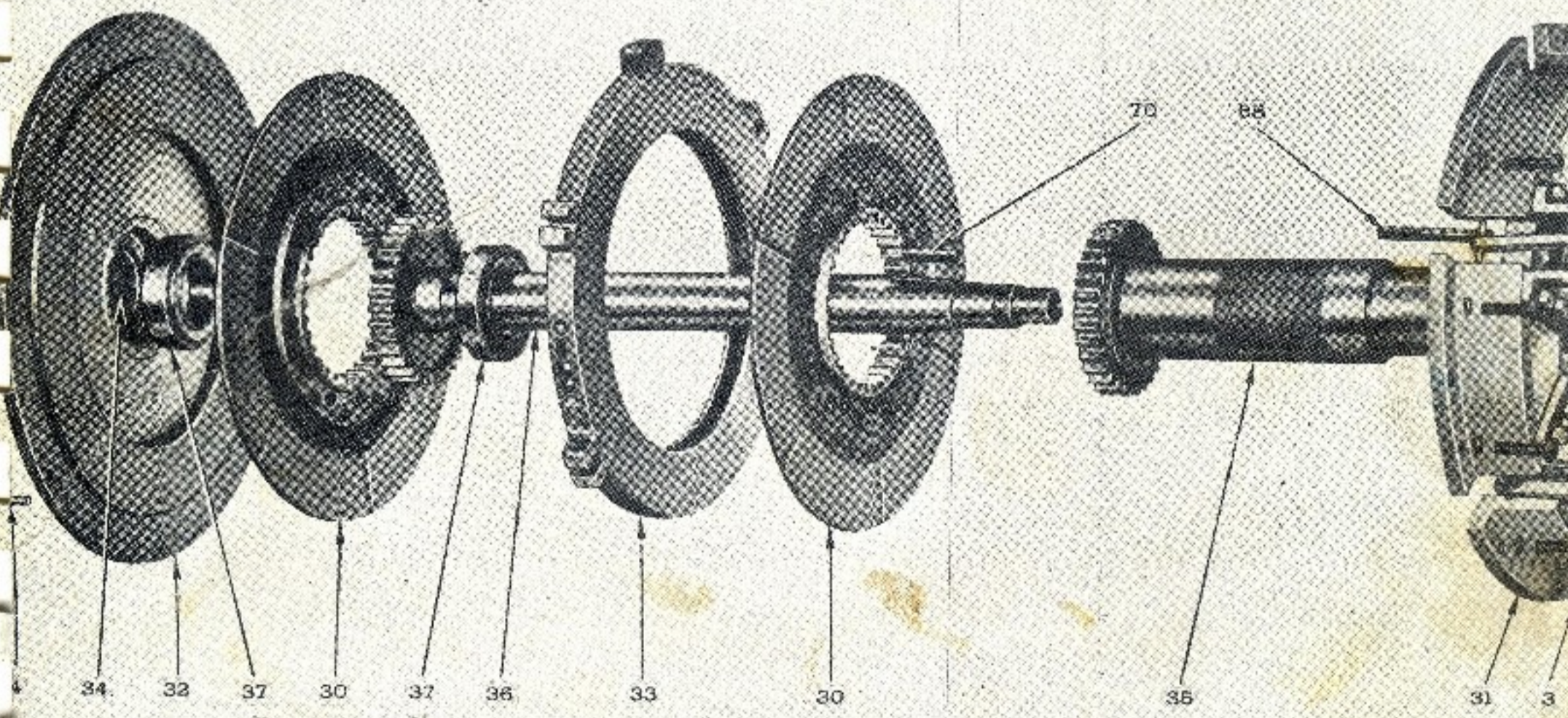
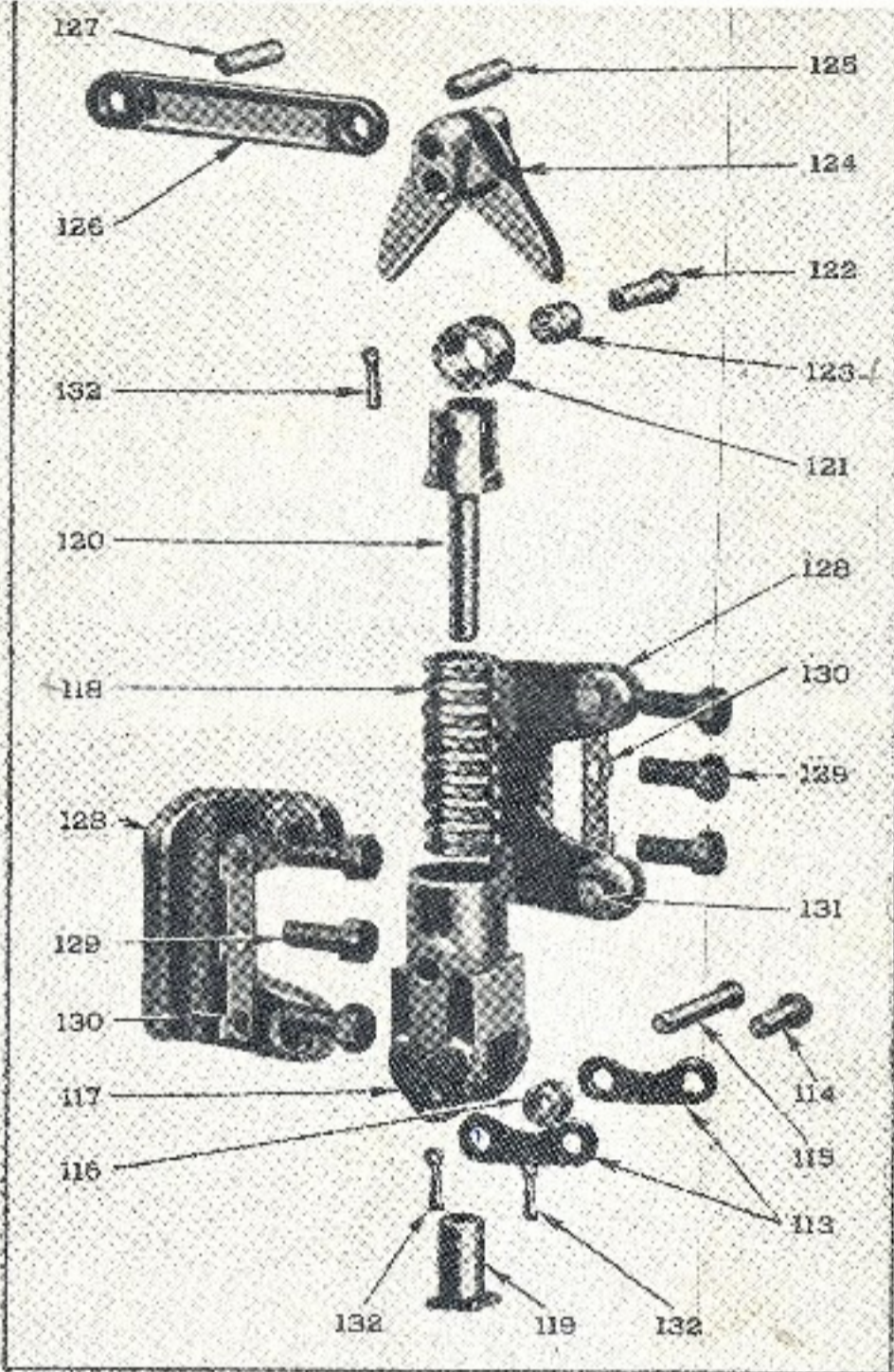


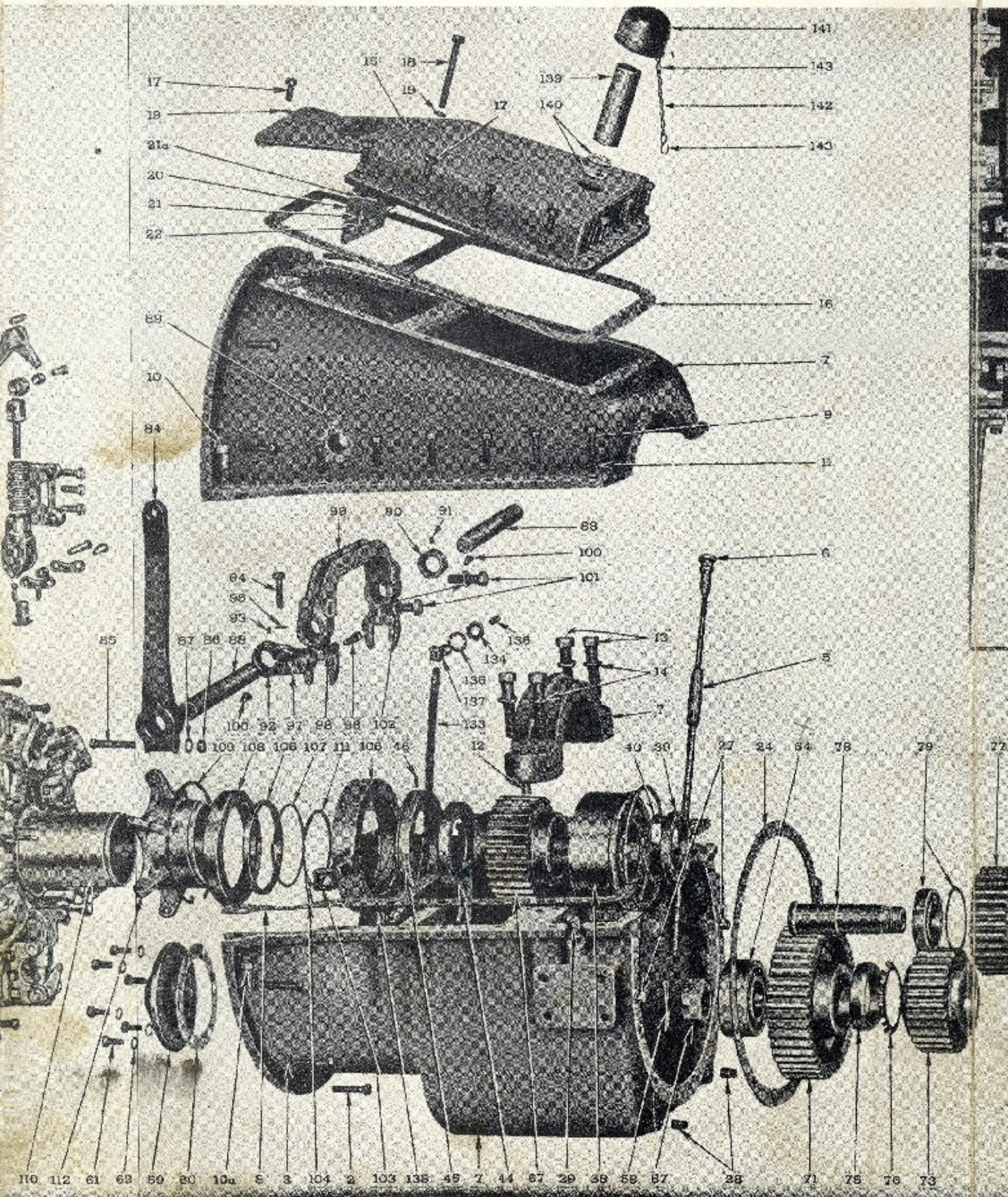
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>6Y1-2 STARTING MOTOR</b>			
1	D1108732	Starting motor, 12 volt, R.H. (with solenoid)	1
-	D1878100	Armature	1
-	D1874852	Brush	8
-	D1856842	Pinion, 12-tooth	1
2	D1118046	Solenoid switch, 12 volt	1
1	D-839	Starting motor, 32 volt, R.H. (with solenoid)	1
-	D1880577	Armature, 32 volt	1
-	D1905044	Brush, 32 volt	12
-	D1856842	Pinion, 12-tooth	1
2	D1118049	Solenoid switch, 32 volt.	1



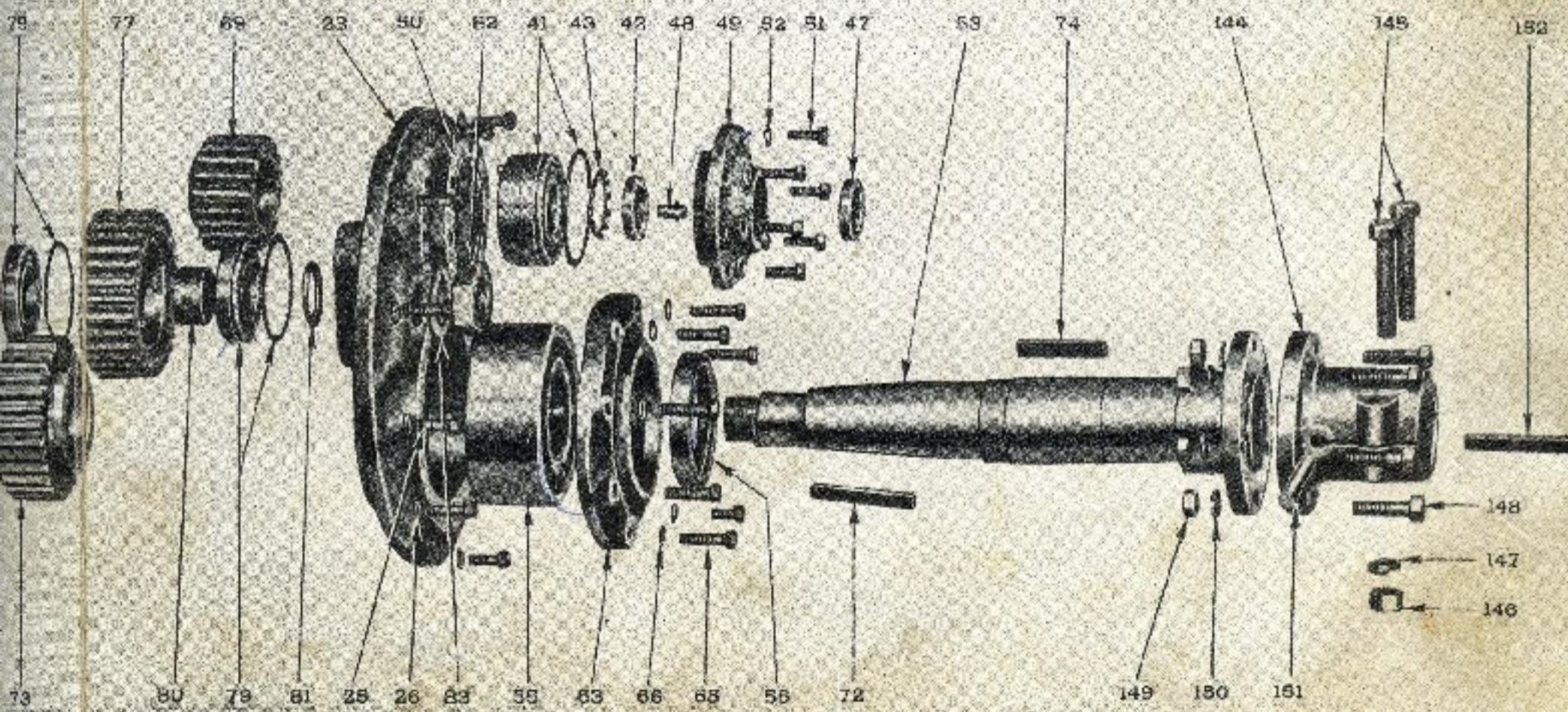
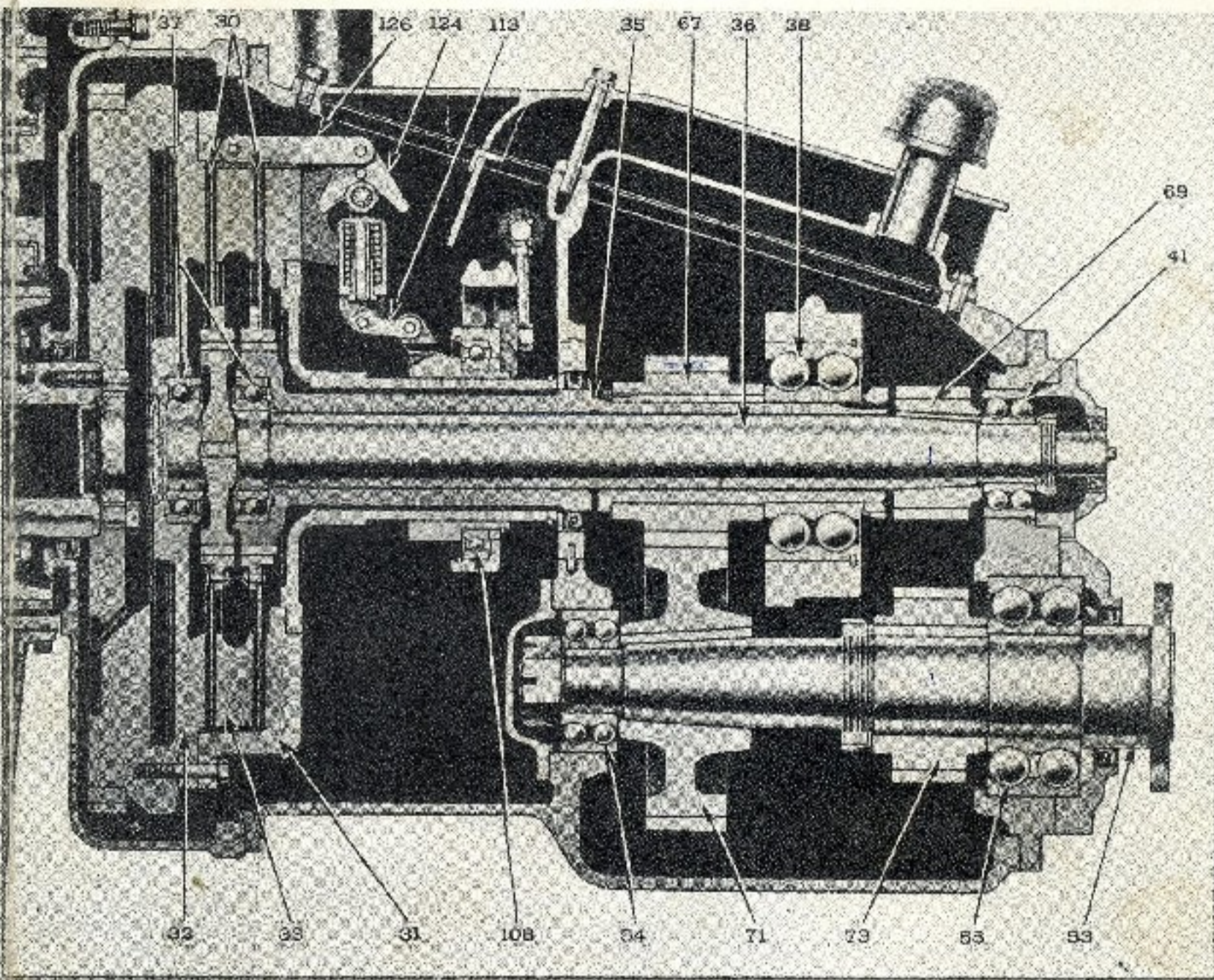
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
	MA35N12 MA55N12 MA55P12 MA35N24/32	<p><b>MOTOROLA ALTERNATOR</b></p> <p>35 amp., 12 v., Neg. ground, enclosed brushes            55 amp., 12 V., Neg. ground, enclosed brushes            55 amp., 12 V., Pos. ground, enclosed brushes            35 amp., 24/32 V., Neg. ground, enclosed brushes</p> <p>Above kits include alternator, voltage regulator, universal mount bracket and alternator pulley - specify pulley required - no belts included</p>	







**Fig. W-40—Transmission (Clutch and Reverse Gear).  
Exploded and Cross-Sectional Views.**



# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>TRANSMISSION (CLUTCH AND REVERSE GEAR)</b>			
<b>7B-1 TRANSMISSIONS</b>			
-	X8708A	Transmission ass'y. 3.05:1 forward; 2.50:1 reverse	
-	X8708A	Transmission ass'y. 2.04:1 forward; 1.50:1 reverse	
-	X8708A	Transmission ass'y. 1.51:1 forward and reverse (incl. all items in 7B-2 through 7B-9 plus Items 5 and 6)	
1	D346-255	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 1- $\frac{3}{4}$ " (clutch plate to flywheel)	12
2	X106332	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 1- $\frac{3}{4}$ " (trans. to flywheel hsg.)	12
3	X103321	Washer, lock, $\frac{3}{8}$ "	24
4	X103624	Pin, taper, #6 x 1" (clutch plate to flywheel)	2
5	D6-412	Sleeve, oil depth gauge	1
6	D6-411	Gauge, oil depth	1
<b>7B-2 HOUSING AND COVER, TRANSMISSION</b>			
7	X9093	Housing assembly (includes upper and lower housing, plus bearing cap and next 8 items)	1
8	A3325A	Gasket	2
9	M326	Screw, Hex. Hd. $\frac{3}{8}$ " — 16 x 1"	12
10	A1336	Bolt, finished $\frac{3}{8}$ " — 24 x 1- $\frac{1}{2}$ "	2
10A	192481	Nut, elastic, stop, $\frac{3}{8}$ " — 24	2
11	M256	Washer, lock $\frac{3}{8}$ "	12;
12	A2006	Pin, dowel	2
13	M1137	Screw, Hex. Hd. $\frac{3}{8}$ " — 11 x 2- $\frac{3}{4}$ "	4
14	M236	Washer, lock, $\frac{3}{8}$ "	4
15	9106	Plate, housing cover	1
16	A3788	Gasket	1
17	M296	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x $\frac{3}{8}$ "	12
18	A2414A	Bolt, Hex Hd $\frac{3}{8}$ " — 16 x 3- $\frac{1}{2}$ "	1
19	M256	Washer, lock, $\frac{3}{8}$ "	13
20	A3823	Plate, deflector	1
21	D6-212	Bolt, 5/16" — 18 x $\frac{1}{8}$ " (deflector attaching)	2
21A	A2691	Lock, bolt	2
22	5190538	Wire, lock, .062 x 12"	1
23	8714DR	Cover, end	1
24	A3326	Gasket	1
25	M430	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 1- $\frac{1}{4}$ "	12
26	M256	Washer, lock, $\frac{3}{8}$ "	12
27	A2006	Pin, dowel	2
28	M370	Plug, pipe, $\frac{1}{4}$ "	2
29	M507	Plug, pipe, $\frac{3}{8}$ "	1
<b>7B-3 DRIVING PLATES, TRANSMISSION</b>			
30	08665	Plate ass'y., driving (incl. plate, ring and rivets)	2
31	8764	Plate ass'y., front (incl. sliding sleeve support 5190397. Does not incl. shifting mechanism)	1
32	8715	Plate, back	1
33	8656	Plate, floating	1
34	M1083	Plug, expansion (back plate)	1

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>7B-4 SHAFT AND SLEEVE (MAIN) FORWARD &amp; REVERSE</b>			
35	A5210	Sleeve, forward	1
36	A5323	Shaft, reverse	1
37	M1085	Bearing, ball forward and reverse pilot	2
38	M194	Bearing, ball, forward sleeve (incl. snap ring)	1
39	M1039	Locknut	1
40	M1040	Lockwasher	1
41	M1067	Bearing, ball reverse shaft (incl. snap ring)	1
42	M716	Locknut	1
43	M716W	Lockwasher	1
44	M1585	Seal, forward sleeve oil	1
45	A3324A	Retainer, forward sleeve oil seal	1
46	1671	Pin, dowel (seal retainer to housing)	1
47	M1154	Seal, oil, reverse shaft	1
48	M293	Alemite fitting 1/4" male, reverse shaft	1
49	A3563	Retainer, reverse shaft bearing	1
50	A2004	Gasket	1
51	M326	Bolt, Hex. Hd. 3/8" — 16 x 1" (retainer to end cover)	6
52	M256	Washer, lock 3/8"	6
<b>7B-5 SHAFT, COUNTER</b>			
53	A5783	Shaft	1
54	M768	Bearing, ball (small)	1
55	M193	Bearing, ball (large)	1
56	M440	Seal, countershaft oil	1
57	A2005	Nut, Hex. slotted, 1-1/2" — 12 (countershaft retaining)	1
58	M251	Pin, cotter 3/16" x 2" (countershaft nut)	1
59	A3340B	Plate, bearing cover	1
60	A2000A	Gasket	1
61	M296	Bolt, Hex. Hd. 3/8" — 16 x 3/8", (cover plate to housing)	6
62	M256	Washer, lock 3/8"	6
63	A5782	Retainer, countershaft bearing	1
65	M258	Bolt, Hex. Hd. 3/8" — 16 x 1-1/2" (retainer to end cover)	8
66	M256	Washer, lock 3/8"	8
<b>7B-6 GEARS, FORWARD AND REVERSE</b>			
67	A3460A	Pinion, forward (mounted on forward sleeve)	1
68	M1086	Key, 3/8" x 1/4" x 4" (forward pinion retaining)	1
69	A3321A	Pinion, reverse (mounted on reverse shaft)	1
70	M489	Key, 3/8" x 3/8" x 2" (reverse pinion retaining)	1
71	A5372A	Gear — forward (mounted on countershaft)	1
72	M428	Key, 1/2" x 1/2" x 3-1/8" (forward gear retaining)	1
73	A5374-B	Gear, reverse (mounted on countershaft)	1
74	M436	Key, 1/2" x 1/2" x 2-5/8"	1
75	M1069	Locknut (countershaft reverse gear retaining)	1
76	M1040	Lockwasher (countershaft reverse gear retaining)	1

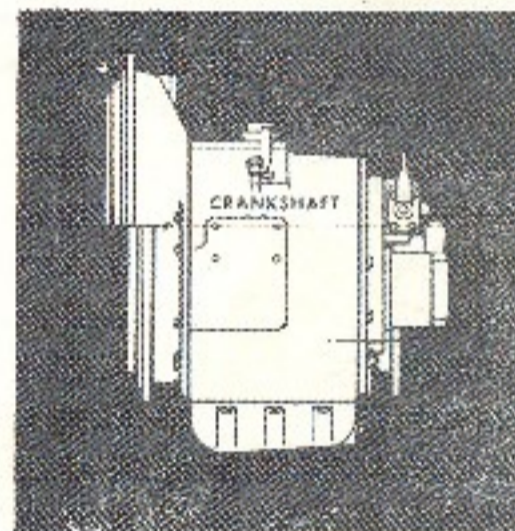
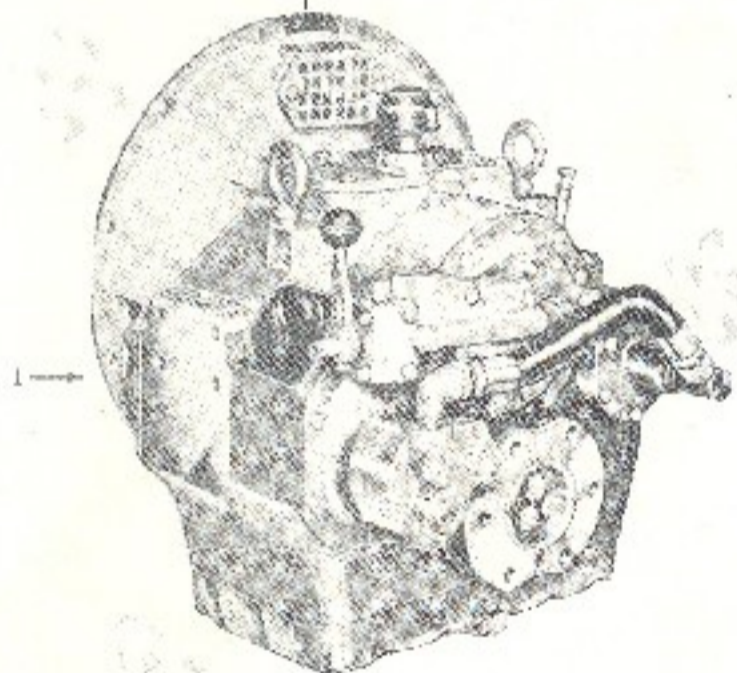
# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No Per Unit
<b>7B-8 SHIFTING MECHANISM, TRANSMISSION (cont.)</b>			
121	A1839	Roller	6
122	A1893	Pin, roller	6
123	M770	Bearing, needle	6
124	A3189	Lever, wishbone	6
125	A1853	Pin (wishbone lever to engaging link)	6
126	A1907	Link, engaging	6
127	A1853	Pin (engaging link to floating plate)	6
128	XA3190B	Bracket assembly, lever (includes 5190388 pin)	12
129	M1078	Bolt, Hex. Hd. $\frac{5}{8}$ " — 16 x $\frac{3}{8}$ "	36
130	A2019	Lock, lever bracket screw	12
131	A2365	Pin (lever bracket to spring cup and wishbone lever)	24
132	M245	Pin, cotter, 7/64" x $\frac{1}{8}$ " (linkage pins retaining)	18
133	M1293	Hose, flexible	1
134	M309	Nut, jam, $\frac{5}{8}$ " (flexible hose)	1
135	M236	Washer, lock	1
136	1330	Fitting, Alemite, $\frac{1}{8}$ " male	1
137	M1283	Adapter (at housing)	1
138	M1284	Elbow (at shifter collar)	1
<b>7B-9 BREATHER, TRANSMISSION</b>			
139	A1837B	Pipe, breather	1
140	A2674	Baffle, breather	2
141	M639	Cap, breather	1
142	M1072	Chain, 6" long	1
143	A2007	Links, "S" type (for chain)	2
<b>7B-10 COUPLING, PROPELLER</b>			
-	XA-5224-B	Coupling, 7- $\frac{1}{4}$ " O.D. pilot bore	1
144	D1-143D	Coupling, 5- $\frac{3}{4}$ " O.D., 2" bore	1
145	X112748	Bolt, Hex. Hd. $\frac{5}{8}$ " — 18 x 3- $\frac{1}{4}$ "	2
146	S117053	Nut, Hex. $\frac{5}{8}$ " — 18	2
147	X103325	Washer, lock, $\frac{5}{8}$ "	2
148	X100053	Bolt, Hex. Hd. $\frac{1}{2}$ " — 20 x 1- $\frac{3}{4}$ "	6
149	X117051	Nut, Hex. $\frac{1}{2}$ " — 20	6
150	X103323	Washer, lock, $\frac{1}{2}$ "	6
151	A2030	Pin, $\frac{1}{2}$ " dia. x 3-13/16" long	1
152	M1095	Key, $\frac{1}{8}$ " x $\frac{1}{8}$ " x 4"	1
<b>7B-11 PARTS REQUIRED TO CHANGE X8708-A 1.51 : 1 RATIO TO 2.04 : 1 FORWARD ONLY</b>			
	A-3341	Forward pinion	1
	A-5231	Forward gear	1

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>7B-12 PARTS REQUIRED TO CHANGE X8708-A 1.51 : 1 RATIO to 3.05 : 1 Forward and 2.5 : 1 Reverse</b>	
	A-5243-A	Forward sleeve and pinion	1
	A-5312	Forward gear	1
	A-3321	Reverse pinion	1
	A-5213	Reverse gear	1
	A-3323	Idler gear	1
	A-5215-A	Countershaft	1
	A-5214	Companion flange	1
	A-5209	Bearing retainer	1
	M-552	Oil seal	1
	M-2033-U	Key	1
	A-2005	Nut	1
	8714-AA	End Cover	1
	GS-8708-A	Gasket set	1
	D6-143D	Coupling	1
	M-1567	Washer	1
	D6-511	Dipstick	1
	M-436	Key	1

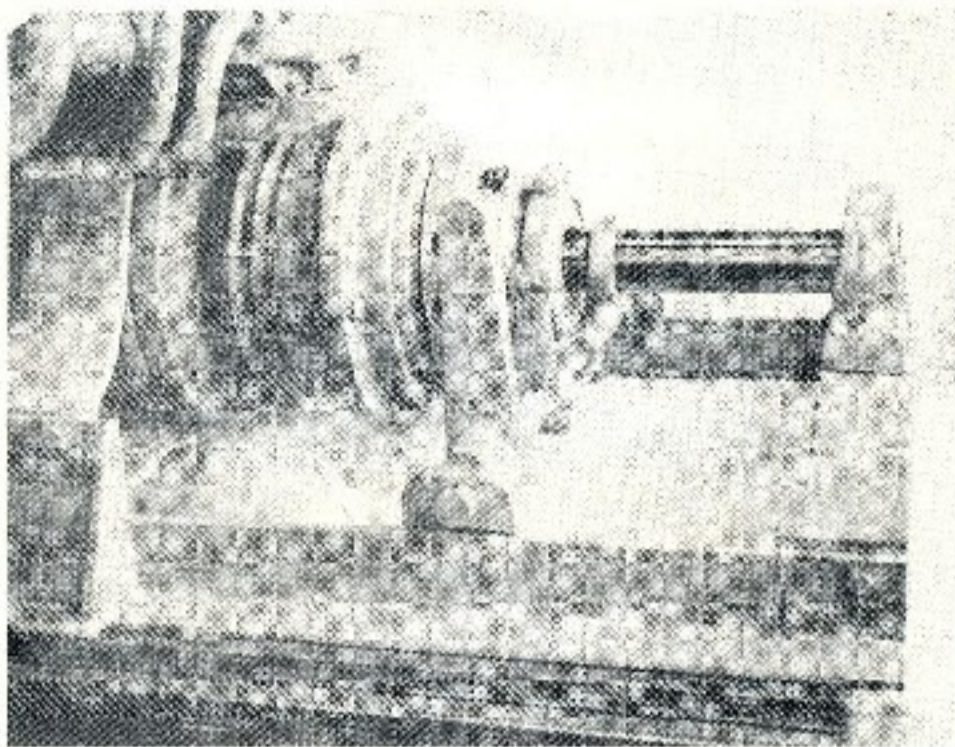
## GROUP 7B-11—HYDRAULIC MARINE GEARS



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>7B-13 NEW TWIN DISC MODEL 509 HYDRAULIC MARINE REVERSE AND REDUCTION GEARS. Replace X8708 Gear</b>	
1	MG-509-1.51	Gear assembly, 1.47:1 reduction	1
1	MG-509.2	Gear assembly, 2.04:1 reduction	1
1	MF-509-3	Gear assembly, 2.95:1 reduction	1
1	MG-509-3.83	Gear assembly, 3.83:1 reduction	1
1	MG-509-4.5	Gear assembly, 4.5:1 reduction	1
-	XB-5007	Heat exchanger kit for R.H. mounting	1
-	XB-5007A	Heat exchanger kit for L.H. mounting	1
-	XA-5224-AA	Coupling flange 1-1/2" plain bore	1
-	XA-9000	Coupling flange 3.83:1 4.5:1	1
-	XA-6575-B	Trolling valve	1
-	X-9807-A	Top power take off	1

# PARTS LIST

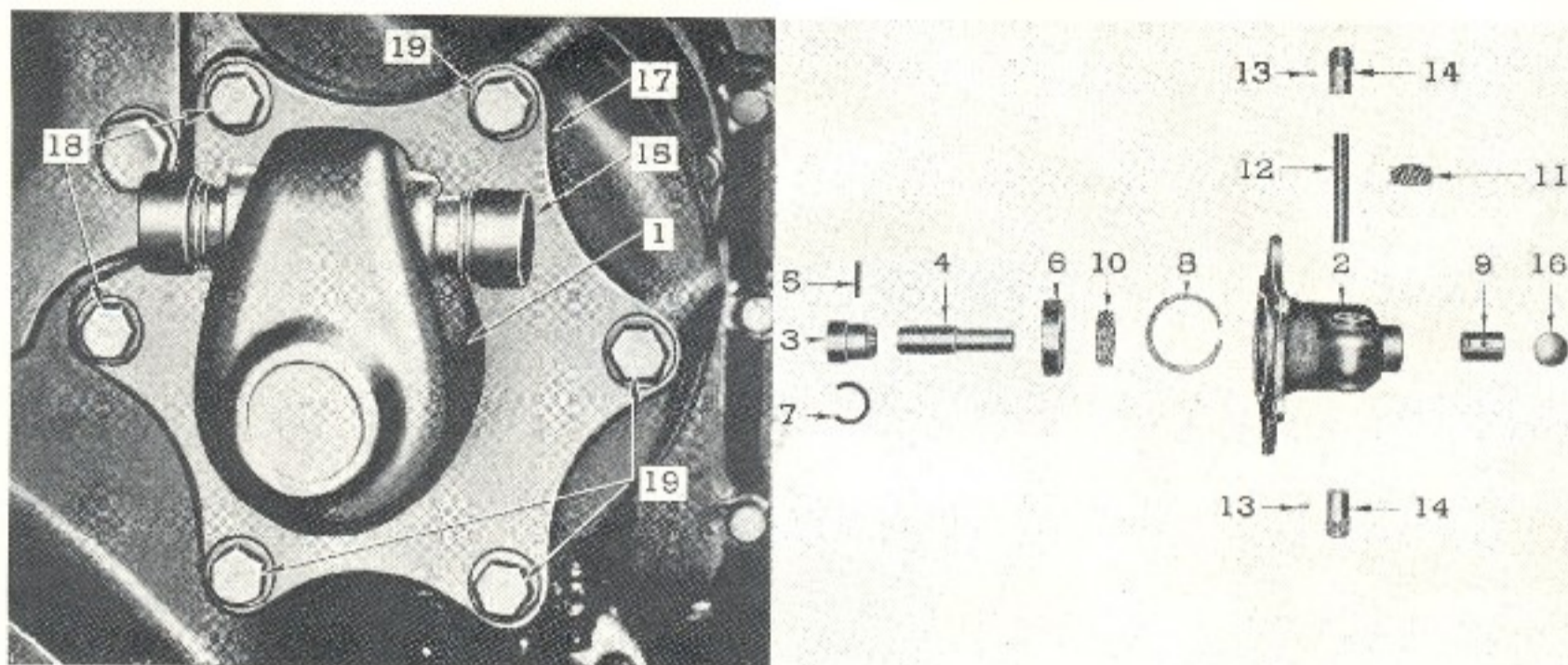
## GROUP 8A—FRONT POWER TAKE-OFF



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
1	DCL208	Front power take-off kit, 40 HP using Twin Disc clutch, Model DI-208 with 1-15/16" shaft complete with rail extensions, pillow block bearing, shifting linkage, integral double groove sheave and pilot bearing designed for your GM 6-71 Graymarine only.	1

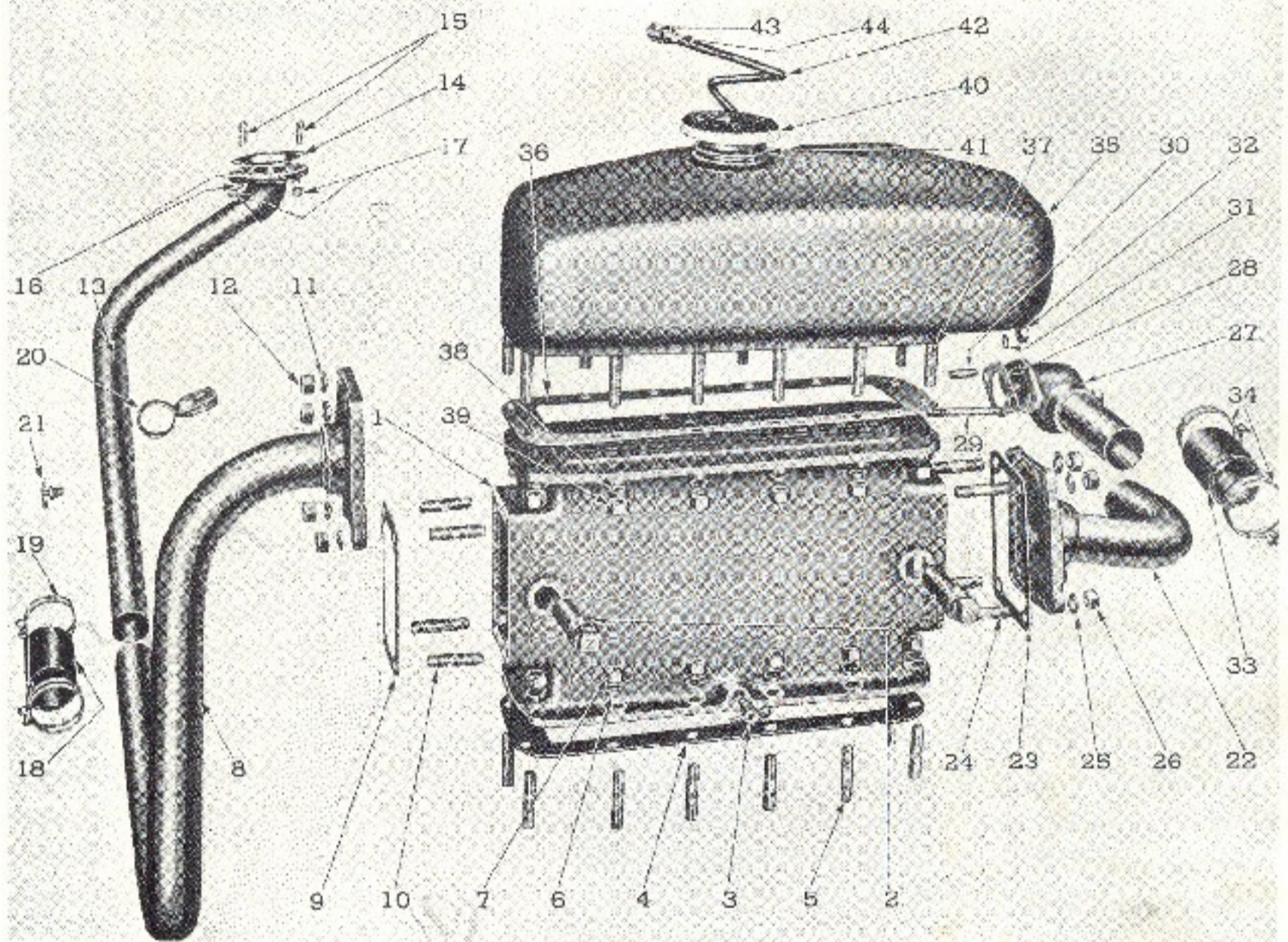


## TACHOMETER DRIVE



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>12J-5 DRIVE, TACHOMETER</b>	
1	D5164270	Drive assembly (includes next 15 items)	1
2	D5164271	Housing	1
3-4-5	D5165776	Coupling, drive shaft, pin (assembly)	1
6	D903206	Bearing, shaft	1
7	D5164275	Snap ring, coupling	1
8	D5164276	Snap ring, housing	1
9	D5164277	Bearing	1
10	D5164278	Gear, drive	1
11	D5164279	Gear, driven	1
12	D5164281	Shaft, driven	1
13	D141317	Pin, brass, 1/8" x 5/16" (shaft retaining)	2
14	D5164280	Sleeve, driven shaft	1
15	D849330	Cap, driven shaft	2
16	D106517	Plug, expansion, 1-1/8"	1
-	D5164282	Gasket, drive cap	2
17	D5150057	Gasket	1
18	D179838	Bolt, Hex. Hd., 3/8" — 16 x 7/8"	2
19	D186317	Bolt, Hex. Hd., 3/8" — 24 x 5"	4
-	D103321	Washer, lock, 3/8"	6
-	D117049	Nut, Hex., 3/8" — 24	4

## GROUP 13D—HEAT EXCHANGER

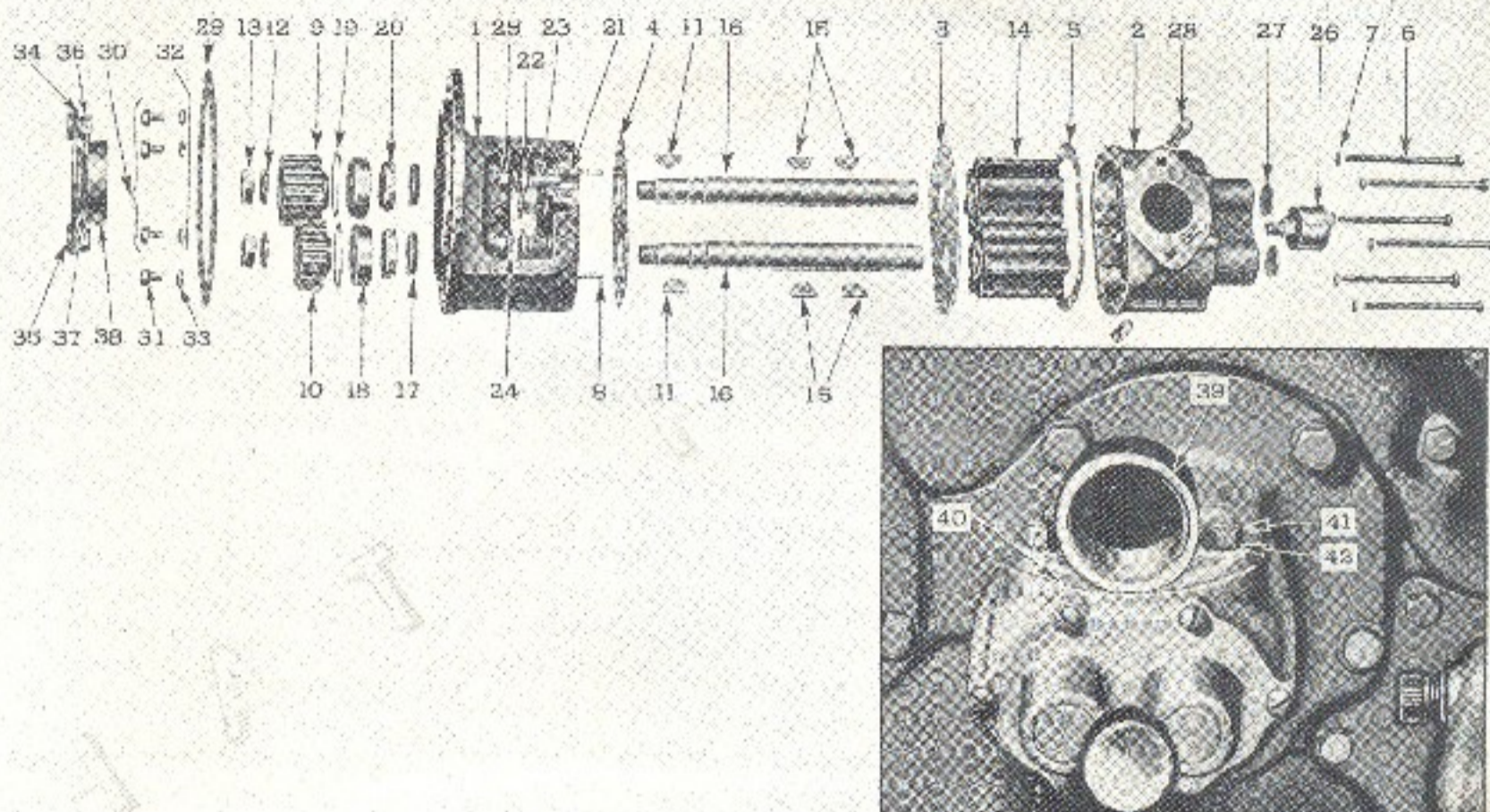


Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>13D-1 EXCHANGER, HEAD</b>			
1	D8502373	Exchanger assembly (includes next item)	1
2	D8517479	Zinc electrode	2
3	D114981	Drain cock	1
4	D5164400	Gasket	1
5	D5163866	Stud, 5/16" — 18 x 5/16" — 18 x 1-5/16"	12
6	D103320	Washer, lock 5/16"	12
7	D117061	Nut, Hex. 5/16" — 18	12
<b>13D-2 TUBES, RAW WATER PUMP TO HEAT EXCHANGER</b>			
8	D5164429	Tube assembly (heat exchanger inlet)	1
9	D5164244	Gasket	1
10	D5163867	Stud, 5/16" — 18 x 5/16" — 18 x 1-5/16"	4
11	D5163834	Washer, flat, 5/16"	4
12	D117061	Nut, Hex., 5/16" — 18	4
13	D5164431	Tube assembly (pump outlet)	1
14	D5158741	Gasket	1
15	D5161031	Stud, 3/8" — 16 x 3/8" — 16 x 1-5/16"	2
16	D116093	Washer, flat, 3/8"	2
17	D117062	Nut, Hex. 3/8" — 16	2

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>13D-2 TUBES RAW WATER PUMP TO HEAT EXCHANGER (cont.)</b>			
18	D3222708	Hose	1
19	D111619	Clamp, hose	2
20	D5164248	Clamp (tube to blower)	2
-	D103340	Washer, flat, 5/16"	2
21	D5165005	Drain cock (pump outlet tube)	1
<b>13D-3 TUBES, HEAT EXCHANGER TO EXHAUST MANIFOLD</b>			
22	D5164430	Tube assembly (heat exchanger outlet)	1
23	D5164244	Gasket	1
24	D5163867	Stud, 5/16" — 18 x 5/16" — 18 x 1-5/16"	4
25	D5163834	Washer, flat, 5/16"	4
26	D117061	Nut, Hex, 5/16" — 18	4
27	D5164407	Tube assembly (manifold inlet)	1
28	D5156319	Gasket	1
29	D5164199	Stud, 5/16" — 18 x 5/16" — 18 x 2-7/8"	1
30	D5163867	Stud, 5/16" — 18 x 5/16" — 18 x 1-3/16"	1
31	D5163834	Washer, flat, 5/16"	1
32	D117061	Nut, Hex. 5/16" — 18	2
33	D3222708	Hose	1
34	D111619	Clamp, hose (connecting tubes)	2
<b>13D-4 TANK, FRESH WATER EXPANSION</b>			
35	D5164516	Tank assembly (includes next item)	1
-	D5157295	Neck, filler	1
36	D5164400	Gasket (to heat exchanger)	1
-	D5164209	Gasket (to water manifold)	1
37	D5163866	Stud, 5/16" — 18 x 5/16" — 18 / 1-3/8"	18
38	D103320	Washer, lock 5/16"	18
39	D117061	Nut, Hex, 5/16" — 18	18
-	D5163883	Stud, 7/16" — 14 x 7/16" — 14 x 1-3/4"	2
-	D5164360	Washer, flat special	2
-	D117063	Nut, Hex., 7/16" — 14	2
40	D850802	Cap, filler, includes gasket	1
<b>13D-5 TUBE, EXPANSION TANK OVERFLOW</b>			
42	D5164215	Tube assembly	1
43	D137422	Elbow	1
44	D137398	Nut	1
-	D5164249	Clamp	1
-	D120614	Nut, Hex. #10 — 32	1
-	D106497	Washer, lock # 10	1
-	D100765	Screw — Rd. Sl. Hd. #10 — 32 x 3/8"	1

## GROUP 13H—RAW WATER PUMP



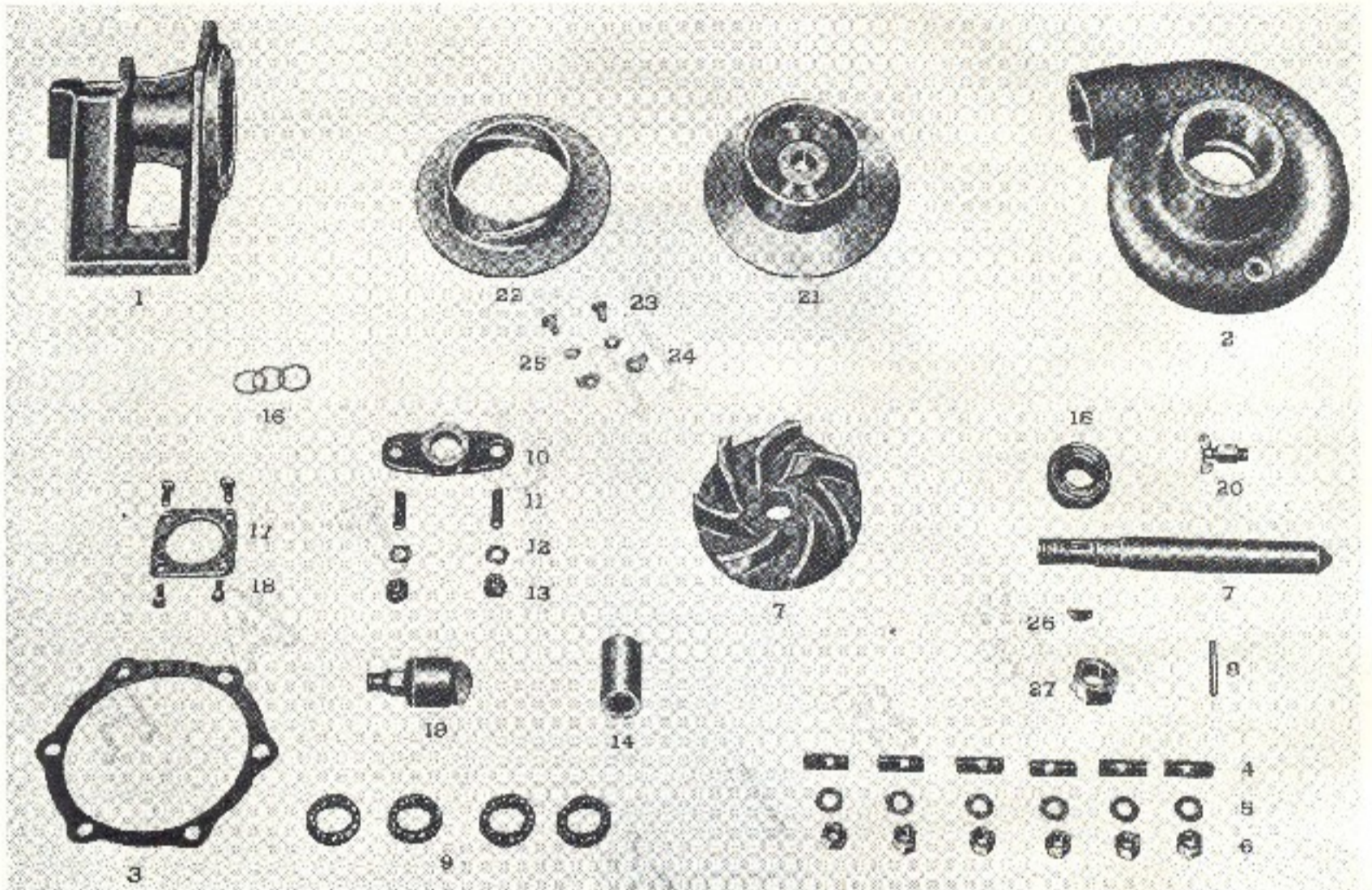
Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>13H-1 PUMP, RAW WATER</b>	
—	D5158614	Pump assembly (includes next 28 items)	1
1	D5161016	Housing, front	1
2	D5151017	Housing, rear	1
3	D5161018	Spacer (gear plate) brass, 5/64" thick	1
4	D5161019	Gasket, .003"	1
5	D5161020	Gasket set	As req.
6	D140725	Bolt, fill, slotted head, 1/4" — 20 x 3-1/2"	6
7	D103319	Washer, lock, 1/4" medium	6
8	D141157	Pin, dowel, 3/16" x 1/8"	2
9	D5161021	Gear, drive, 20 teeth, 1-7/16" wide	1
10	D5161022	Gear, driven, 20 teeth, 1" wide	1
11	D120051	Key Woodruff, 5/32" x 7/8"	2
12	D103334	Washer, lock, 5/8"	2
13	D122366	Nut, Hex. thin, 5/8" — 18	2
14	D5161023	Impeller (Neoprene — 6 lobes)	2
15	D5161024	Key, Bronze	4
16	D5161025	Shaft, 8-3/16" long	2
17	D5161026	Slinger	2
18	D903204	Bearing, ball	2
19	D5161027	Retainer, snap ring type	2
20	D5161028	Seal, front	2
21	D5161029	Packing, (rear seal)	8
22	D5161030	Gland (packing retainer) brass	2
23	D5160376	Stud, 5/16" — 18 x 5/16" — 24 x 1-3/16"	4
24	D5163401	Locknut	4
25	D122002	Nut, Hex. 5/16" — 24, brass	4
26	D5157144	Cup, grease	1
27	D137183	Plug, expansion, 1" dia. (brass)	2

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>13H-1 PUMP, RAW WATER (cont.)</b>			
28	D5161031	Stuc, 3/8" — 16 x 4/5" — 16 x 1-5/16"	4
29	D5117061	Gasket	1
30	D179882	Bolt Hex. Hd., 1/2" — 13 x 1 1/8"	3
31	D179859	Bolt Hex. Hd., 7/16" — 14 x 1-1/8"	1
32	D103323	Washer, lock, 1/2" medium	3
33	D103322	Washer, lock 7/16" medium	1
<b>13H-2 DRIVE RAW WATER PUMP</b>			
34	D5153533	Drive assembly (includes next item)	1
35	D5153450	Spacer	4
36	D5155942	Bolt, Hex. Hed. 5/16" — 20 x 1-1/8"	4
37	D5151241	Lockwire, .062" x 8" long	2
38	D3292492	Coupling, raw water pump drive	1
<b>13H-3 ELBOW, WATER PUMP INLET</b>			
39	D5164202	Elbow	1
40	D5158741	Gasket	1
41	D117062	Nut, Hex., 3/8" 16	2
42	D116093	Washer, flat, 3/8"	2
-	D103870	Plug, Sq. Hd. 1"	1

# PARTS LIST

## GROUP 14B14—BILGE PUMP



Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
		<b>14B14-1 PUMP, BILGE</b>	
-	D5164299	Pump ass'., Marine Products R-130G (incl. next 28 items)	1
1	D5190437	Body	1
2	D5190438	Housing, impeller	1
3	D5164528	Gasket set	1
4	D5190446	Stud	6
5	D5163834	Washer	6
6	D123213	Nut	6
7	D5190534	Shaft and impeller ass'y. (incl. shaft D5164452 and impeller D5164450 plus next item)	1
8	D5190442	Pin, impeller retaining	1
9	D5160375	Packing, shaft	4
10	D5190439	Glard, packing	1
11	D5190444	Stud	2
12	D5190445	Washer	2
13	D117598	Nut	2
14	D5164453	Bushing, shaft (bronze)	1
15	D5164451	Bearing, ball	1
16	D5190443	Shim, bearing	As req.

# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>14B14-B PUMP, BILGE (cont.)</b>			
17	D5190440	Retainer, bearing	1
18	D110570	Screw (retainer to body)	4
19	D5190441	Grease cup	1
20	D114981	Drain cock	1
-	D5190447	Pulley assembly (includes next 5 items)	1
21	D5190448	Pulley	1
22	D5190449	Flange, pulley adjusting	1
23	D114351	Screw, fill. Hd. ¼" — 20 x ¾"	2
24	D5190450	Nut (lock)	2
25	D1033219	Washer, lock ¼"	2
26	D124546	Key, Woodruff #6	1
27	D117053	Nut, Hex. ¾" — 18	1
-	D181431	Bolt, Hex. Hd. ½" — 10 x 1-½"	2
-	D103323	Washer, lock ½"	2
-	D117051	Nut, Hex., ½" — 10	2
<b>14B14-2 PULLEY, CRANKSHAFT</b>			
-	D5164158	Pulley	1
-	D5131724	Key, Woodruff, ¾" x 1-½"	1
-	D5164159	Screw	1
-	D5164160	Washer	1
-	D5164161	Shim	2
<b>14B14-3 BELT, BILGE PUMP DRIVE</b>			
-	D5164300	Belt	1
<b>14B14-4 TUBE, BILGE PUMP PRIMING (EXHAUST MANIFOLD TO BILGE PUMP)</b>			
-	D5164408	Tube assembly	1
-	D5156319	Gasket	1
-	D5163867	Stud, 5/16" — 18 x 5/16" — 18 x 1-5/16"	2
-	D5163834	Washer, flat, 5/16"	2
-	D117061	Nut, Hex., 5/16" — 18	2
-	D5164303	Connector (attached to pump)	1
-	D5164304	Hose	1
-	D5164305	Clamp, hose	2
-	D103868	Plug, pipe, ½"	1

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# PARTS LIST

Item No.	Part No.	NAME AND DESCRIPTION	No. Per Unit
<b>7B-7 IDLER GEAR AND SHAFT</b>			
77	A3323A	Gear, idler	1
78	A3320	Shaft, idler gear	1
79	M1068	Bearing, ball, idler gear shaft (incl. snapping)	2
80	A2003	Spacer, idler gear shaft bearing	1
81	M1070	Washer, idler gear shaft bearing	1
82	1146	Nut, Hex. 1- $\frac{3}{8}$ " — 12	1
83	A1588	Washer, lock, 1- $\frac{3}{8}$ "	1
<b>7B-8 SHIFTING MECHANISM, TRANSMISSION</b>			
84	A3361	Lever, operating	1
85	M662	Bolt, Hex. Hd. " — 24 x 2"	1
86	M623	Nut, Hex., $\frac{3}{8}$ " — 24	1
87	M256	Washer, lock $\frac{3}{8}$ "	1
88	A2002G	Shaft, operating	2
89	M102	Cups, oil (operating shaft)	2
90	1242	Collar, operating shaft stop	1
91	M631	Screw, set, $\frac{1}{4}$ " — 20 x 5/16" (collar to shaft)	1
92	A1971A	Arm, neutral lock	1
93	M452	Screw, neutral lock set	1
94	M258	Bolt, Hex. Hd. $\frac{3}{8}$ " — 16 x 1- $\frac{1}{2}$ "	1
95	M256	Washer, lock $\frac{3}{8}$ "	1
96	A1720	Pin, neutral lock arm	1
97	M231	Pin, cotter, $\frac{1}{8}$ " x $\frac{3}{4}$ " (neutral arm)	1
98	113C8	Spring, neutral arm	1
99	A5232	Yoke, operating (throwout fork)	1
100	M291	Key, Woodruff, $\frac{1}{2}$ " x 1"	2
101	M240	Bolt, Hex. Hd. $\frac{1}{2}$ " — 13 x 1- $\frac{3}{4}$ "	2
102	M657	Washer, lock $\frac{1}{2}$ "	2
103	A2017	Block, shifter	2
104	M247	Pin, cotter, shifter block	2
105	A5233	Collar, sliding sleeve	1
106	A1918	Spacer, sliding sleeve collar	1
107	A1909	Snap ring, sliding sleeve	1
108	M303	Bearing, sliding sleeve collar	1
109	A1689	Snap ring, sliding sleeve collar	1
110	A3395	Support, sliding sleeve (not serviced, use 5190382, see group 7B-3)	1
111	A1363	Snap ring, sliding sleeve support	1
112	A3342	Sleeve, sliding	1
113	A1970	Link (connecting sliding sleeve to spring cup)	12
114	1394	Pin (sliding sleeve link to sliding sleeve)	6
115	2390	Pin	6
116	A1969	Spacer	6
117	A3186A	Cup, spring	6
118	A1849C	Spring	6
119	A1843	Nut, spring adjusting	6
120	A3187	Pin, spring	6