

ILLUSTRATED PARTS LIST

A50, A65, A75 AND A80 ENGINES

Section 13

INTRODUCTION

GENERAL

This catalog lists and describes the parts for the models A50, A65, A75 and A80 series 8 and 9 engines manufactured by the Continental Motors Corporation, Muskegon, Michigan.

The Group Assembly Parts List consists of the complete engine divided into twelve (12) main groups. Each assembly listed is followed immediately by its component parts, properly indented thereunder, to show their relationship to the assembly. Component parts of the complete engine which are not included in any assembly but which are used in conjunction with, attach, or attach to a certain assembly, are listed immediately following the last detail of that assembly and in line with the major assembly.

The quantities specified in the Assembly Parts List are those used at the location shown, and not necessarily the total number used per engine. Refer to the Numerical Parts List for the total quantities used per engine.

Parts which may be obtained in oversize or undersize are indicated throughout the catalog by an asterisk (*) preceding the part number. Refer to the "Oversize and Undersize Parts List" for the sizes available.

The reference numbers appearing on the illustrations are numerically arranged in the Assembly Parts List and are used mainly to assist in locating a part in the Group Assembly Parts List after it has been found on an illustration.

Spare parts are sold only through Continental Authorized and Approved Service Stations and Dealers. When ordering be sure to give **name and address** of person or organization to whom parts are to be shipped, the **part number**, the **exact description** as listed, the **quantity required**, and the **engine model and serial number**.

INSTRUCTIONS TO C.M.C. DEALERS: C.O.D. orders cannot be accepted unless arrangements have been made in advance with C.M.C. Service Department.

We will make any shipment by any means of transportation specified, subject to the transportation company's regulations. All shipments will be carefully packed before leaving the Factory. Continental Motors Corporation shall not be held liable for damages to engines or parts incurred while in transit — our liability ceasing when shipment is delivered to the transportation agency. If damage is evident on receipt of shipment, see that a notation is made on the shipping bill and file a claim with the transportation agency. If the contents do not show damage until after the container is opened, have the carrier's claim agent make an inspection before unpacking, then file a claim for damages.

Telegraphic orders will be accepted and immediate shipment will be made. However, all telegraphic orders should be confirmed by mail. Care should be exercised in composing telegraphic orders that sufficient words are used to clearly indicate the intended meaning.

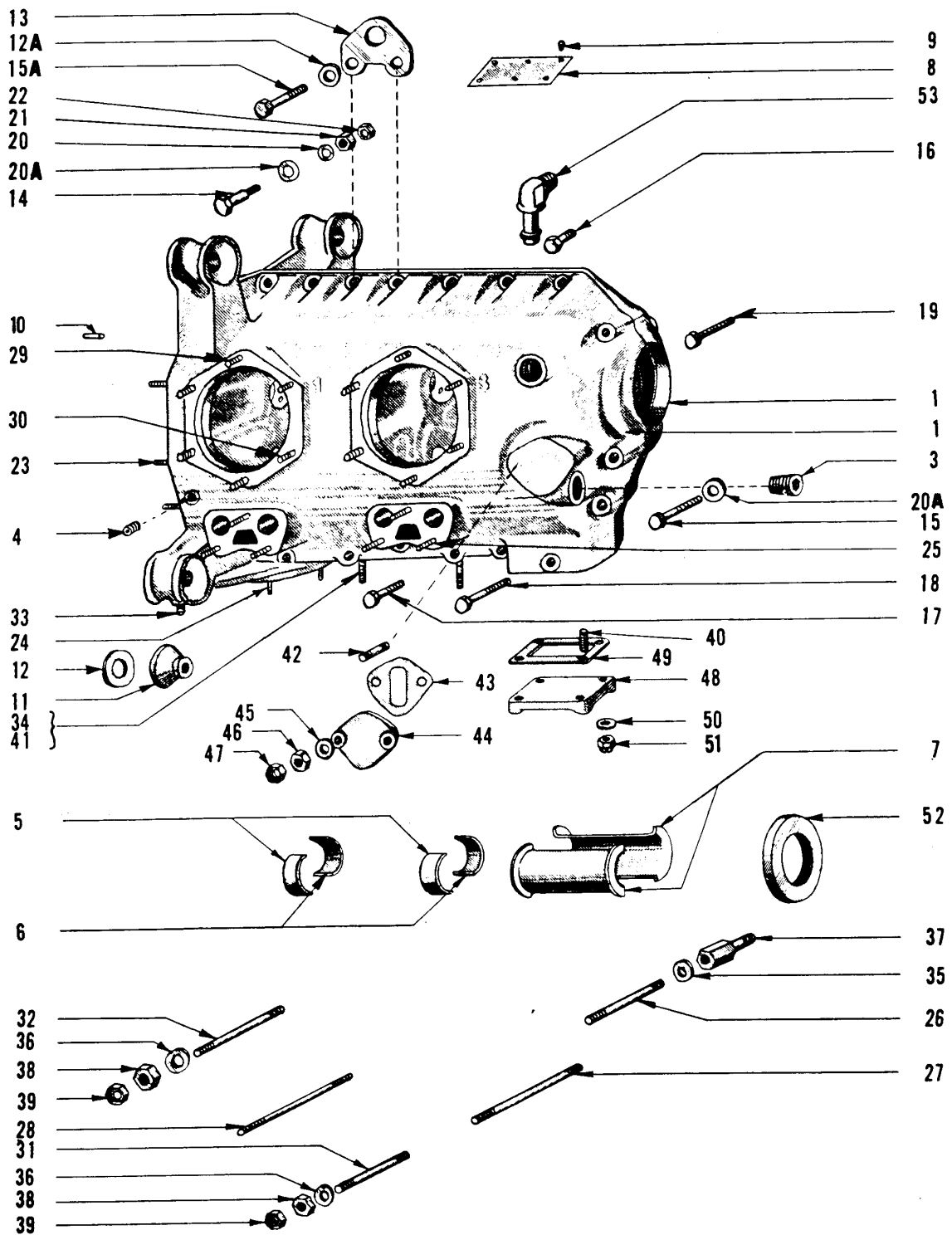
EXCHANGE SERVICE

Upon return to factory, freight prepaid, of old crankshafts in usable condition, **subject to inspection at factory**, we will exchange factory reconditioned .010" undersize crankshafts for \$14.50 each.

Upon return to factory, freight prepaid, of old cylinder assemblies in usable condition, **subject to inspection at factory**, including valve guides, seats, spark plug inserts, we will exchange one factory re-conditioned cylinder assembly, including new valve guides and seats for \$28.50 each.

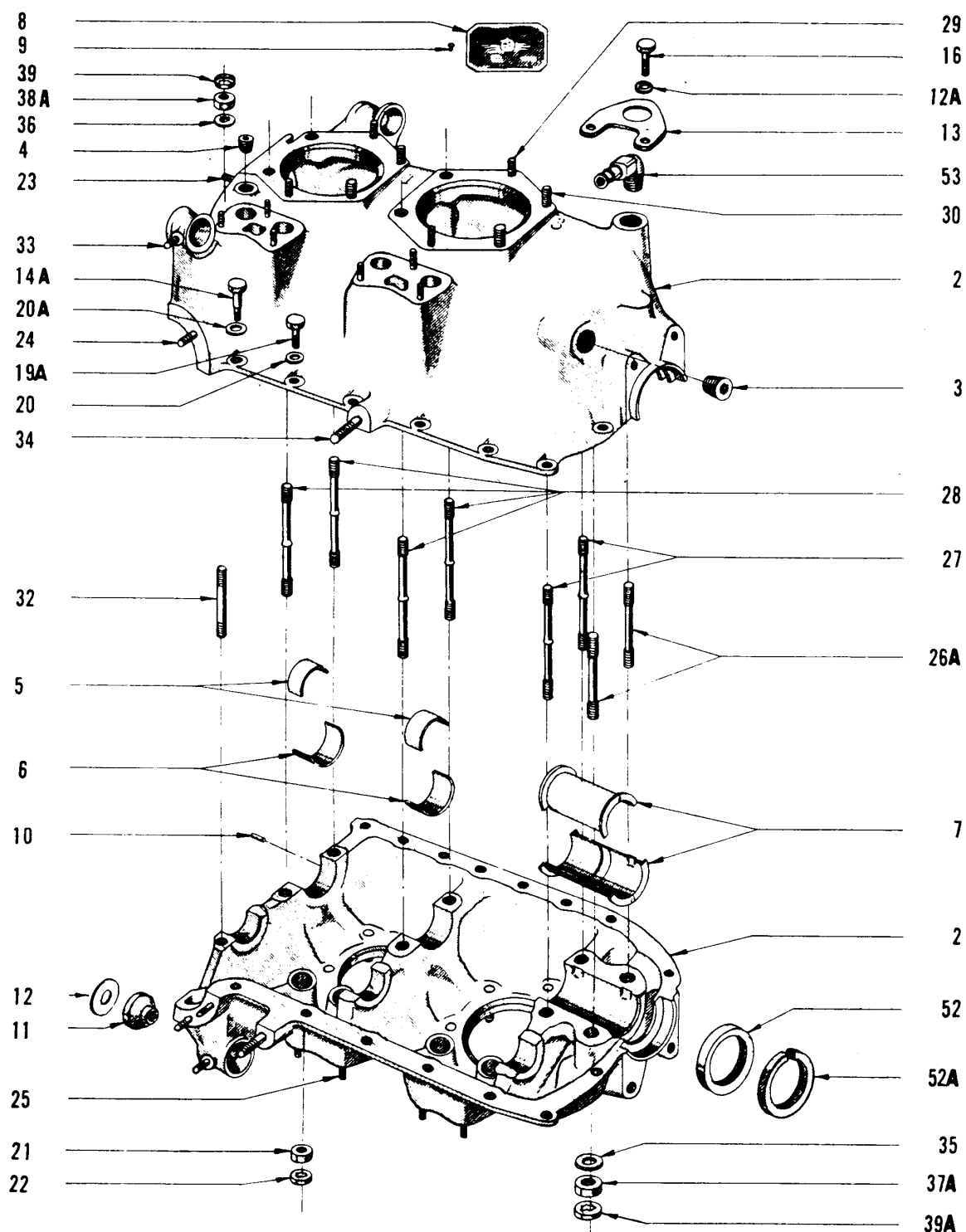
Connecting rods may be exchanged for rebushed rods with squirt holes for \$1.85 each, subject to inspection at the factory.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES



CRANKCASE — Figure 30

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES



NEW STYLE CRANKCASE — Figure 30a

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

Section 14

GROUP ASSEMBLY PARTS LIST

CRANKCASE ASSEMBLIES

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
1	30	A5392-A1	CRANKCASE ASSEMBLY (Series 8)	1
		A5393-A1	CRANKCASE ASSEMBLY (Series 9)	1
		A5390-A1	CRANKCASE ASSEMBLY (Series 8 — With Fuel Injector and Fuel Pump)	1
		A5391-A1	CRANKCASE ASSEMBLY (Series 9 — With Fuel Injector and Fuel Pump)	1
2	30A	† 6759-A1	CRANKCASE ASSEMBLY (Series 8)	(1)
			The above assemblies include both case halves and the following parts, except as noted:	
3	30,30A	2025	Plug — Crankcase Oil Lines	2
4	30,30A	2024	Plug — Oil Pressure Gauge Connection	1
		*40237-A1	Bearing Set	1
5	30,30A	*36128	Bearing — Crankshaft (Center & Rear, 1-3)	2
6	30,30A	*36129	Bearing — Crankshaft (Center & Rear, 2-4)	2
7	30,30A	*40237	Bearing — Crankshaft Front & Thrust	2
		22652	Plate — Identification (A50)	1
8	30,30A	22653	Plate — Identification (A65)	1
		530134	Plate — Identification (A65 with Marvel Carb.)	1
		21445	Plate — Identification (A75)	1
		21470	Plate — Identification (A80)	1
9	30,30A	21007	Screw, Drive — Identification Plate	6
10	30,30A	21080	Dowel — Crankcase to Cover	2
11	30,30A	22387	Bushing — Engine Mount (Rubber)	8
12	30,30A	21530	Washer — Engine Mount	4
12A	30,30A	25164	Washer — Lifting Eye to Crankcase	2
13	30,30A	24879	Eye — Lifting	1
14	30	21218	Screw, Dowel — Crankcase Flange	1
14A	30A	24252	Screw, Dowel — Crankcase Flange	(3)
15	30	21219	Screw, Dowel — Crankcase Flange	2
15A	30	24878	Screw, Hex. Head — Lifting Eye	2
16	30,30A	21176	Screw, Hex. Head — Crankcase Flange	4 (2)
17	30	21077	Screw, Hex. Head — Crankcase Flange	4
18	30	21448	Screw, Hex. Head — Crankcase Flange	1
19	30	21076	Screw, Hex. Head — Crankcase Flange	2
19A	30A	24251	Screw, Hex. Head — Crankcase Flange	(10)
20	30,30A	20522	Washer, Plain — Crankcase Flange Screws	29 (27)
20A	30,30A	AN960-516L	Washer, Plain — Dowel Screws (under heads)	3
21	30,30A	2437	Nut — Crankcase Flange Screws	16 (15)
22	30,30A	2886	Palnut — Crankcase Flange Screws	16 (15)

*Available in oversize or undersize. See Oversize and Undersize Parts List.

†Requires crankshaft A50501, A-36241-A1, 530196-A1 or 530199-A1. For crankshafts with taper or front surface of forward thrust flange order crankcase assembly A-5392-A1 (530131-1 after July 1948).

()Quantities shown in parenthesis apply only to crankcase assembly 6759-A1.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
23	30,30A	*2465	Stud — Crankcase to Cover	10
24	30,30A	*22002	Stud — Crankcase to Oil Sump	3
25	30,30A	*22423	Stud — Crankcase to Pushrod Housing Flange	12
26	30	*21055	Stud — Crankcase 1-3 Side to 2-4 Side	2
26A	30A	*24255	Stud — Crankcase 1-3 Side to 2-4 Side	(2)
27	30,30A	*21054	Stud — Crankcase 1-3 thru 2-4 to Cyl. Flange	2
28	30,30A	*21054	Stud — Crankcase 2-4 thru 1-3 to Cyl. Flange	4
29	30,30A	*22006	Stud — Cylinder Flange to Crankcase	8
30	30,30A	*21053	Stud — Crankcase to Cylinder Flange	10
31	30	* 2985	Stud — Crankcase 2-4 Side to 1-3 Side	1
32	30,30A	*21075	Stud — Crankcase 2-4 Side to 1-3 Side	1
33	30,30A	* 2390	Stud — Crankcase to Oil Sump Bracket	2
34	30,30A	*25361	Stud — Intake Manifold to Crankcase (with A5392-A1, A5393-A1, 6759-A1 assemblies)	2
35	30,30A	2475	Washer — Crankcase 1-3 to 2-4 Stud	2
36	30,30A	2474	Washer — Crankcase 2-4 to 1-3 Stud	2 (1)
37	30	23130	Nut, Spacer — Crankcase 1-3 to 2-4 Stud	2
37A	30A	2443	Nut — Crankcase 1-3 to 2-4 Stud	(2)
38	30	2557	Nut — Crankcase 2-4 to 1-3 Stud	2
38A	30A	2441	Nut — Crankcase 2-4 to 1-3 Stud	(1)
39	30,30A	2561	Palnut — Crankcase 2-4 to 1-3 Stud	2 (1)
39A	30A	2958	Palnut — Crankcase 1-3 to 2-4 Stud	(2)
40	30	*22172	Stud — Injector to Crankcase	4
41	30	*21480	Stud — Crankcase to Intake Manifold (with A5390-A1 and A5391-A1 assemblies)	2
42	30	*20001	Stud — Crankcase to Fuel Pump	2
....	....	*20096	Stud — Crankcase to Cover (Series 9)	3
....	....	*21449	Stud — C'case thru Cover to Starter (Series 9)	2
....	....	*20020	Stud — Crankcase thru Cover to Oil Screen Housing (Series 9)	2
43	30	21064	Gasket — Fuel Pump (with A5390-A1)	1
44	30	21059	Cover — Fuel Pump (with A5390-A1)	1
45	30	2473	Washer — Fuel Pump Stud (with A5390-A1)	2
46	30	2439	Nut — Fuel Pump Stud (with A5390-A1)	2
47	30	2560	Palnut — Fuel Pump Stud (with A5390-A1)	2
48	30	21350	Cover — Fuel Injector Flange	1
49	30	21404	Gasket — Fuel Injector to Crankcase	1
50	30	20522	Washer — Fuel Injector Stud	4
51	30	2456	Nut — Fuel Injector Stud	4

ASSOCIATED PARTS

52	30,30A	24321	Seal, Oil — Crankshaft (for Tapered shaft)	1
52A	30A	530019	Seal, Oil — Crankshaft (for Flange shaft)	1
53	30,30A	AN842-10	Elbow — Crankcase Breather	1

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

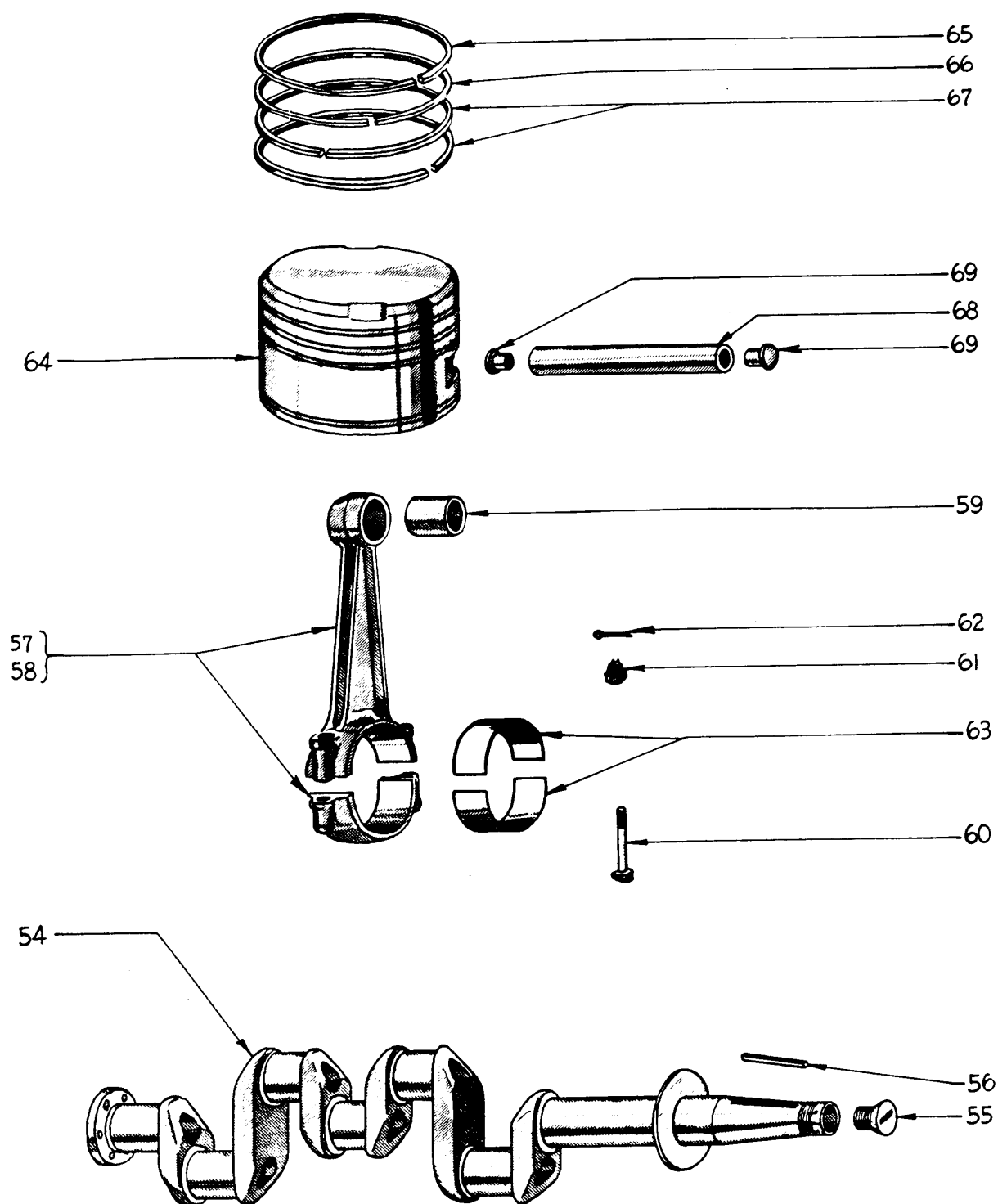


Figure 31

TAPERED CRANKSHAFT, CONNECTING RODS AND PISTONS

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

NOTES

ON CHANGED PARTS

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
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ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

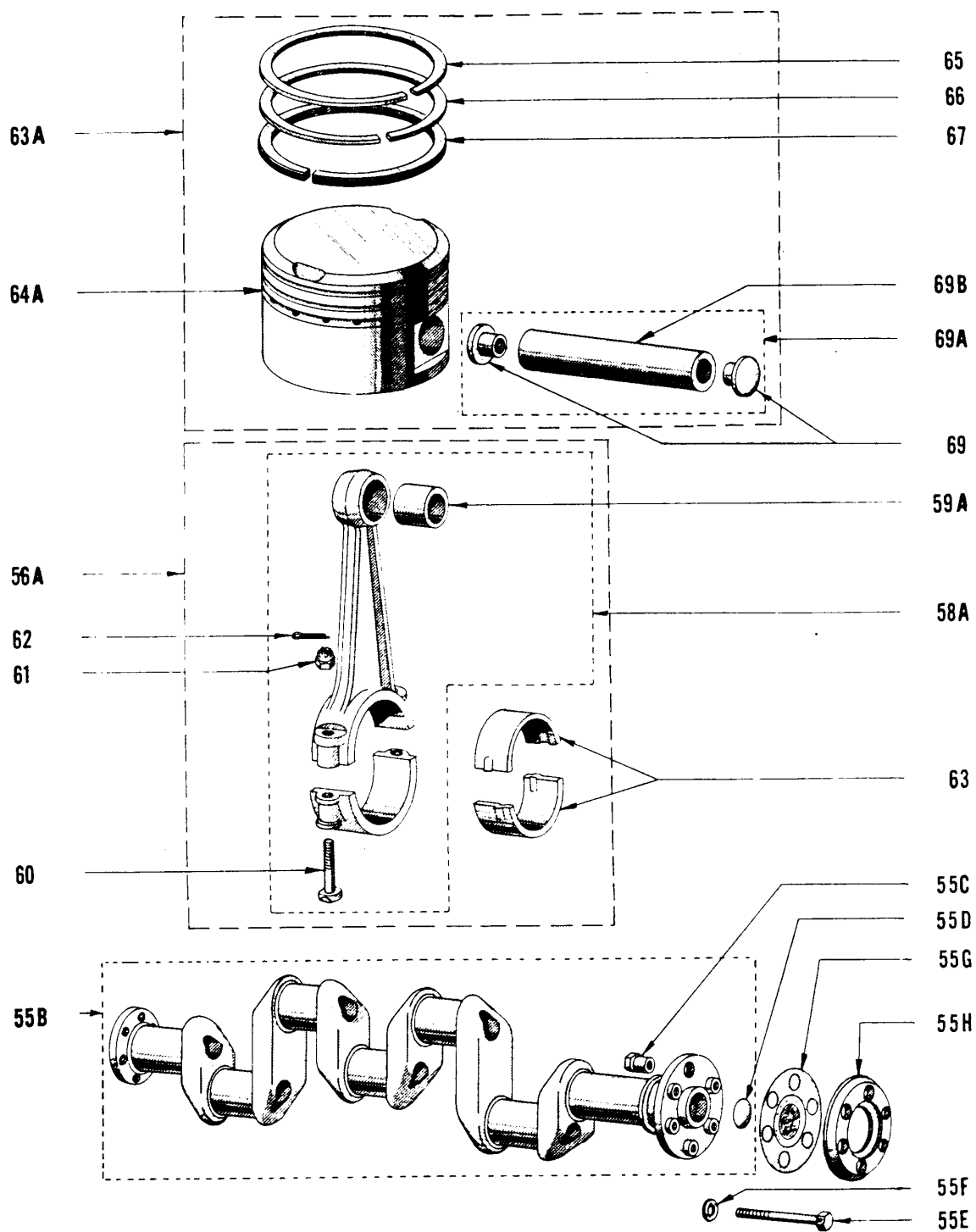


Figure 31a
CRANKSHAFT, CONNECTING RODS AND PISTONS

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

CRANKSHAFT, CONNECTING RODS AND PISTONS

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
54	31	530196-A1	CRANKSHAFT ASSEMBLY — No. 0 Taper (Optional) (Includes shaft, Oil Tubes and following part).	1
55	31	500398	Plug — Crankshaft Front	1
55B	31A	530199-A1	CRANKSHAFT ASSEMBLY — COMPLETE (Flange, Type 1)	1
			(Includes shaft, oil tubes and following two Parts)	
55C	31A	24769	Bushing — Propeller Bolt	6
55D	31A	24770	Plug, Hubbard — Crankshaft	1
55E	31A	24768	Bolt — Propeller Hub Flange	6
55F	31A	24767	Washer — Propeller Hub Flange Bolt	6
55G	31A	35956	Plate — Moisture Impervious	1
55H	31A	3991	Flange — Propellor Hub	1
ASSOCIATED PARTS				
56	31	500400	Key — Propeller Hub to Shaft	1
....	....	A35158-A1	CONNECTING ROD ASSEMBLY — COMPLETE (A50)	4
....	....	A35159-A1	CONNECTING ROD ASSEMBLY — COMPLETE (A75 & A80)	4
56A	31A	A35160-A1	CONNECTING ROD ASSEMBLY — COMPLETE (A65)	4
57	31	A35158-A2	CONNECTING ROD ASSEMBLY (A50)	1
58	31	A35159-A2	CONNECTING ROD ASSEMBLY (A75 & A80)	1
58A	31A	A35160-A2	CONNECTING ROD ASSEMBLY (A65 with Piston 40731)	1
			(Each assembly includes Rod, Cap and the follow- ing four parts, as noted)	
59	31	21003	Bushing — Piston Pin (A35158-A2, A35159-A2) ..	1
59A	31A	22255	Bushing — Piston Pin (A35160-A2)	1
60	31,31A	21004	Bolt — Connecting Rod	2
61	31,31A	2458	Nut — Connecting Rod Bolt	2
62	31,31A	2506	Pin, Cotter — Connecting Rod Bolt	2
63	31,31A	*35897	Bearing — Connecting Rod, Upper or Lower	2
		A4544	PISTON ASSEMBLY — COMPLETE (A50)	4
		A40577	PISTON ASSEMBLY — COMPLETE (A75)	4
		A4701	PISTON ASSEMBLY — COMPLETE (A80)	4
63A	31A	40731-A1	PISTON ASSEMBLY — COMPLETE (A65)	4
		* 4544	Piston (A50)	1
		*40577	Piston (A75)	1
		* 4701	Piston (A80)	1
64A	31A	*40731	Piston (A65) (Cam Ground)	1
65	31,31A	*35551	Ring — Compression (1st. Groove, Pistons 4544, 4557, 4625, 4638, 4648, 4701, 40312, 40577, 40731)	1
66	31,31A	*35551	Ring — Compression (2nd. Groove, Pistons 4625, 4638, 4701, 40312, 40577, 40731)	1
66	31	*35597	Ring — Compression (2nd. Groove, Pistons 4544 4557, 4648)	1
		*35597	Ring — Compression (3rd. Groove, Pistons 4625, 4638, 4701)	1

*Available in oversize or undersize. See oversize and undersize parts list.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

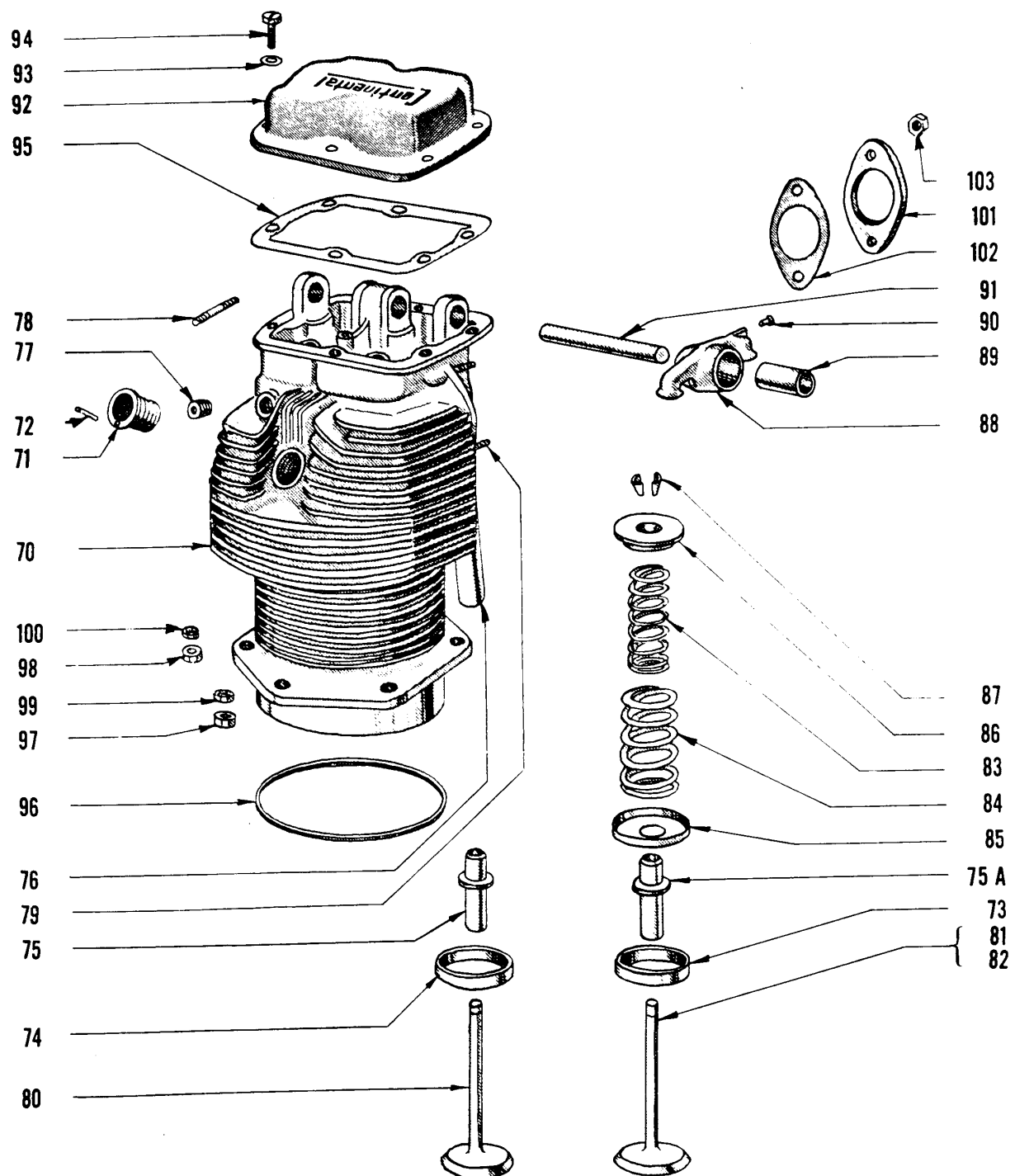


Figure 32
CYLINDER AND VALVES

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

CRANKSHAFT, CONNECTING RODS AND PISTONS — Continued

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
67	31	*35595	Ring — Oil Control (3rd & 4th. Grooves, Pistons 4544, 4557, 4648)	2
		*35595	Ring — Oil Control (4th. & 5th. Grooves, Pistons 4625, 4638, 4701)	2
67	31A	*35741	Ring — Oil Control, Slotted (3rd. Groove, Pistons 40312, 40577, 40731)	1
		A25127	Pin Assembly — Piston (for Pistons 4544, 4701, 40312, 40577)	1
68	31	*25127	Pin — Piston (0.859" diameter)	1
69	31,31A	25117	Plug — Piston Pin	2
69A	31A	25256-A1	Pin Assembly — Piston (for Piston 40731)	1
69B	31A	*25256	Pin — Piston (0.9215" diameter)	1
69	31,31A	25117	Plug — Piston Pin	2
		*A22205	Set — Piston Ring (for Pistons 4544, 4557, 4648)	1
		* 35551	Ring — Compression (Taper Face)	4
		* 35597	Ring — Compression (Plain)	4
		* 35595	Ring — Oil Control	8
		*B22205	Set — Piston Ring (for Pistons 4625, 4638, 4701)	1
		* 35551	Ring — Compression (Taper Face)	8
		* 35597	Ring — Compression (Plain)	4
		* 35595	Ring — Oil Control	8
		* 35670-A1	Set — Piston Ring (for Pistons 40312, 40577, 40731) ..	1
		* 35551	Ring — Compression (Taper Face)	8
		* 35741	Ring — Oil Control (Slotted)	4

CYLINDER AND VALVES

		B3762-A2	CYLINDER ASSEMBLY — COMPLETE (A50 and A65)	4
		B3762-B	CYLINDER ASSEMBLY — COMPLETE (A75 and A80)	4
		B3762-A1	CYLINDER AND VALVE ASSEMBLY (A50 and A65)	1
		B3762-B1	CYLINDER AND VALVE ASSEMBLY (A75 and A80)	1
70	32	B3762	CYLINDER ASSEMBLY	1
			(Includes Head, Barrel and following parts):	
71	32	* 2002	Insert — Spark Plug	2
72	32	22256	Pin — Spark Plug Insert	2
73	32	24805	Insert — Exhaust Valve Seat	1
74	32	24806	Insert — Intake Valve Seat	1
75	32	*21419	Guide — Intake Valve	1
75A	32	*25276	Guide — Exhaust Valve	1
76	32	21284	Housing — Pushrod	2
77	32	2024	Plug — Primer Jet Hole	1
78	32	*22423	Stud — Cylinder Head to Intake Elbow	2
79	32	* 2389	Stud — Cylinder Head to Exhaust Flange	2

*Available in oversize or undersize. See oversize and undersize parts list.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

CYLINDER AND VALVES — (Continued)

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
80	32	21359	Valve — Intake	1
81	32	22211	Valve — Exhaust (A50 and A65)	1
82	32	21479	Valve — Exhaust (A75 and A80)	1
83	32	21365	Spring — Valve, inner	2
84	32	21366	Spring — Valve, outer	2
85	32	21025	Retainer — Valve spring	2
86	32	21119	Seat — Valve spring	2
87	32	21361	Lock — Valve spring seat	4
88	32	A24122	VALVE ROCKER ASSEMBLY	2
			Includes the rocker arm, and the following parts:	
89	32	24122	Bushing — Valve rocker arm	1
90	32	21007	Plug — Oil passage	1
91	32	21153	Shaft — Valve rocker	1
92	32	40762	Cover — Valve rocker	1
93	32	AN936-A416	Washer — 1/4 shakeproof, Rocker cover to cylinder	6
94	32	AN500-A416-8	Screw — 1/4, Valve rocker cover to cylinder	6
95	32	530162	Gasket — Rocker cover	1
96	32	21477	Packing — Cylinder base	1
		**22949	Bushing — Valve Rocker Shaft Boss	4

ASSOCIATED PARTS

97	32	2443	Nut — 7/8 plain, Crankcase thru crankcase to cylinder	16
98	32	2557	Nut — 3/8 plain, Cylinder barrel to crankcase	8
99	32	2958	Palnut — 7/8, Cylinder barrel to crankcase	16
100	32	2561	Palnut — 3/8, Cylinder barrel to crankcase	8
101	32	21492	Flange — Exhaust (optional)	4
102	32	25376	Gasket — Exhaust flange	4
103	32	22022	Nut — Plain (Brass) Exhaust flange to cylinder	8
		21485	Gasket — Exh. Manifold Flange (for up-exhaust cylinder only)	1
		4528	Cover — Valve Rocker (Aluminum — Optional)	1
		*22004	Stud — (For aluminum rocker cover — Optional)	6
		20522	Washer — (For aluminum rocker cover — Optional)	6
		2437	Nut — (For aluminum rocker cover — Optional)	6
		2886	Palnut — (For aluminum rocker cover — Optional)	6

*Available in oversize or undersize. See oversize and undersize parts list.

**NOTE: Valve rocker shaft bushing, Part No 22949 is a replacement part only and is used to bush worn rocker shaft bosses in the cylinder head, these bosses are not bushed on the new engine.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

REAR CRANKCASE COVER AND GEAR TRAIN

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
		A4587-A	CRANKCASE COVER ASSEMBLY — COMPLETE (Series 8)	1
		A6234-A	CRANKCASE COVER ASSEMBLY — COMPLETE (Series 9)	1
104	33	A4587	CRANKCASE COVER ASSEMBLY (Series 8)	1
105	33	A6234	CRANKCASE COVER ASSEMBLY (Series 9)	1
			(Includes the cover and studs)	
		2024	Plug, 1/8" Pipe — Oil Passage	1
106	33	*22002	Stud — Oil sump to crankcase cover (1/4 x 1)	3
107	33	*23297	Stud — Magneto to crankcase cover (7/16 x 1 1/2)	4
108	33	*21393	Stud — Oil pump cover to crankcase cover (1/4 x 7/8)	4
109	33	*21463	Stud — Starter to crankcase cover (Series 9)	4
110	33	*2018	Stud — Tachometer hsg. to crankcase cover (Series 9)	3
111	33	*2018	Stud — Oil screen hsg. to crankcase cover (Series 9)	1
112	33	21114	Plunger — Oil pressure relief valve	1
113	33	21352	Spring — Oil pressure relief valve	1
114	33	AN900-14	Gasket — Oil relief valve	1
115	33	21113	Cap — Oil pressure relief valve	1
116	33	3562	Gear and drive shaft — Oil pressure pump	1
117	33	21343	Gear and shaft — Oil pressure pump (driven)	1
118	33	21160	Cover — Oil pressure pump	1
119	33	20522	Washer — Oil pump cover to crankcase cover	4
120	33	2456	Nut — Castle, oil pump cover	4
		2220	Wire — Lock, oil pump cover to crankcase cover	UAR
121	33	AN900-22	Gasket — Tachometer drive housing (Series 8)	1
122	33	21429	Gasket — Tachometer drive housing (Series 9)	1
123	33	21208	Housing — Tachometer drive (Series 8)	1
124	33	3701	Housing — Tachometer drive (Series 9)	1
125	33	20522	Washer — Tachometer drive housing (Series 9)	3
126	33	2437	Nut — Tachometer drive housing (Series 9)	3
127	33	2886	Palnut — Tachometer drive housing (Series 9)	3
128	33	530156	Oil seal — Tachometer drive	1
		2220	Wire — Lock, Tachometer housing to cover (Series 8)	UAR
129	33	2716	Nut — Tachometer drive cover	1
130	33	3773	Housing — Oil screen (Series 9)	1
131	33	21510	Gasket — Oil screen housing (Series 9)	1
132	33	20522	Washer — Oil screen housing to cover (Series 9)	1
133	33	2437	Nut — 1/4, Oil screen housing to cover (Series 9)	1
134	33	2886	Palnut — 1/4, Oil screen housing to cover (Series 9)	1

*Available in oversize or undersize. See oversize and undersize parts list.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

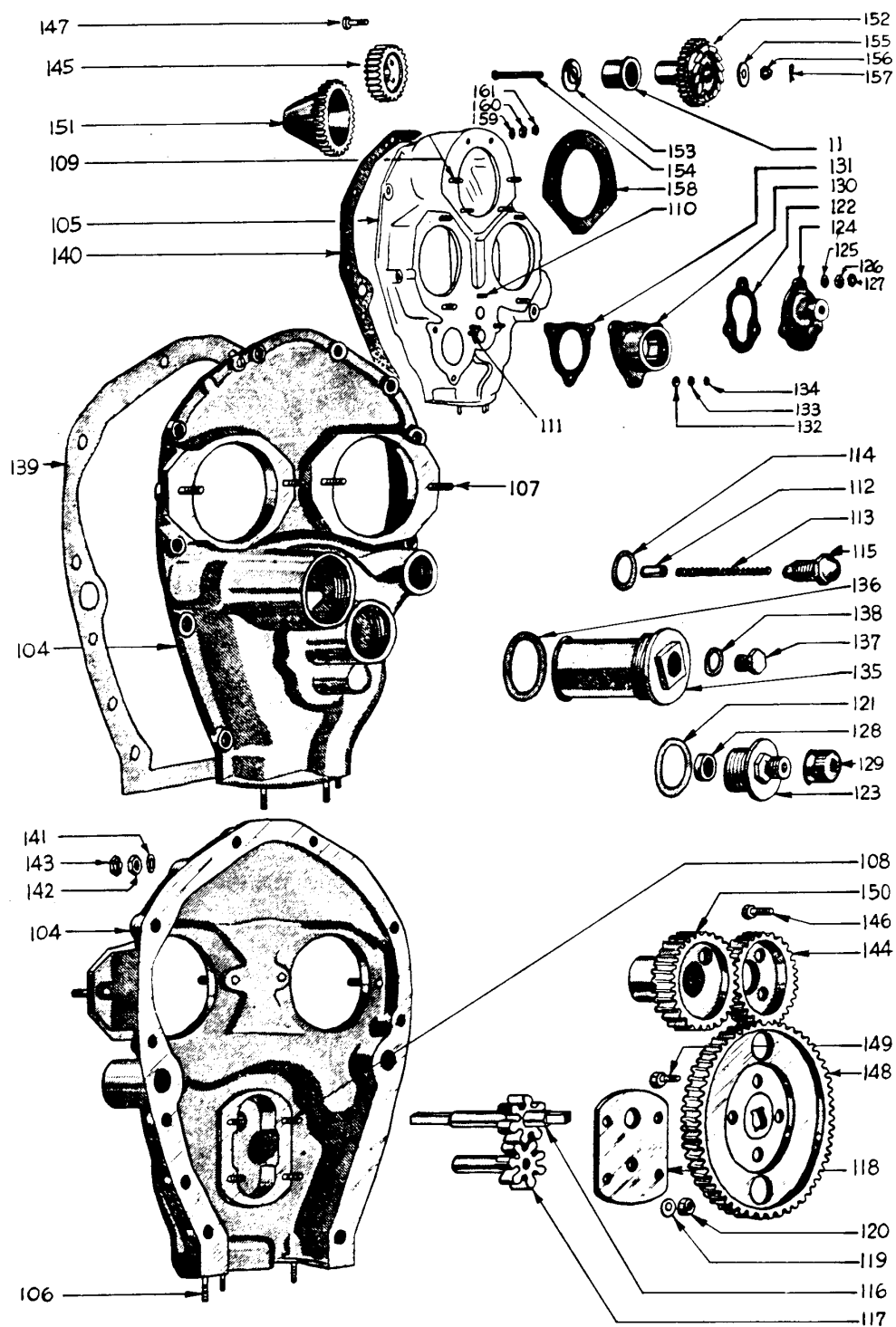


Figure 33
REAR CRANKCASE COVER AND GEAR TRAIN

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

REAR CRANKCASE COVER AND GEAR TRAIN — (Continued)

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
135	33	A3568	OIL SCREEN ASSEMBLY	1
136	33	AN900-28	Gasket — Oil screen	1
137	33	24142	Plug — Thermometer hole in oil screen.....	1
138	33	AN900-10	Gasket — Thermometer hole in oil screen.....	1

ASSOCIATED PARTS

139	33	4577	Gasket — Crankcase cover to crankcase (Series 8)	1
140	33	4617	Gasket — Crankcase cover to crankcase (Series 9)	1
141	33	2473	Washer — $\frac{1}{8}$, Crankcase cover to crankcase (Series 8)	10
		2473	Washer — $\frac{1}{8}$, Crankcase cover to crankcase (Series 9)	8
		2473	Washer — $\frac{1}{8}$, Oil screen housing to crankcase cover to crankcase (Series 9)	2
142	33	2439	Nut — $\frac{1}{8}$, Crankcase cover to crankcase (Series 8)	10
		2439	Nut — $\frac{1}{8}$, Crankcase cover to crankcase (Series 9)	8
143	33	2560	Palnut — $\frac{1}{8}$, Crankcase cover to crankcase (Series 8)	10
		2560	Palnut — $\frac{1}{8}$, Crankcase cover to crankcase (Series 9)	8
		2560	Palnut — $\frac{1}{8}$, Oil screen housing to crankcase cover to crank- case (Series 9)	2
144	33	21083	Gear — Crankshaft (Series 8)	1
145	33	3699	Gear — Crankshaft (Series 9)	1
146	33	21346	Screw — $\frac{1}{4}$ cap, Crankshaft gear to crankshaft (Series 8)	4
147	33	21447	Screw — $\frac{1}{4}$ cap, Crankshaft gear to crankshaft (Series 9)	4
		2220	Wire — Lock, Crankshaft gear to crankshaft.....	UAR
148	33	3506	Gear — Camshaft	1
149	33	21346	Screw — $\frac{1}{4}$ cap, Camshaft gear to camshaft.....	4
150	33		Gear — Magneto drive (Series 8) (See Ignition Group)	
151	33		Gear — Magneto drive (Series 9) (See Ignition Group)	
152	33	35153	Gear — Starter (Series 9).....	1
153	33	21437	Retainer — Starter gear (Series 9).....	1
154	33	22528	Screw — $\frac{1}{8}$ cap, Starter gear to starter gear retainer (Series 9)	1
155	33	22527	Washer — Starter gear retainer (Series 9).....	1
156	33	2457	Nut — $\frac{1}{8}$ castle, Starter gear to retainer screw (Series 9)	1
157	33	2502	Pin — Cotter, starter gear to retainer screw (Series 9).....	1
		21430	Cover — Starter flange (Series 9).....	1
158	33	21432	Gasket — Starter flange (Series 9).....	1
159	33	22535	Washer — Starter cover to crankcase cover (Series 9).....	6
160	33	2439	Nut — $\frac{1}{8}$, Starter cover to crankcase cover (Series 9).....	6
161	33	2560	Palnut — $\frac{1}{8}$, Starter cover to crankcase cover (Series 9).....	6

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

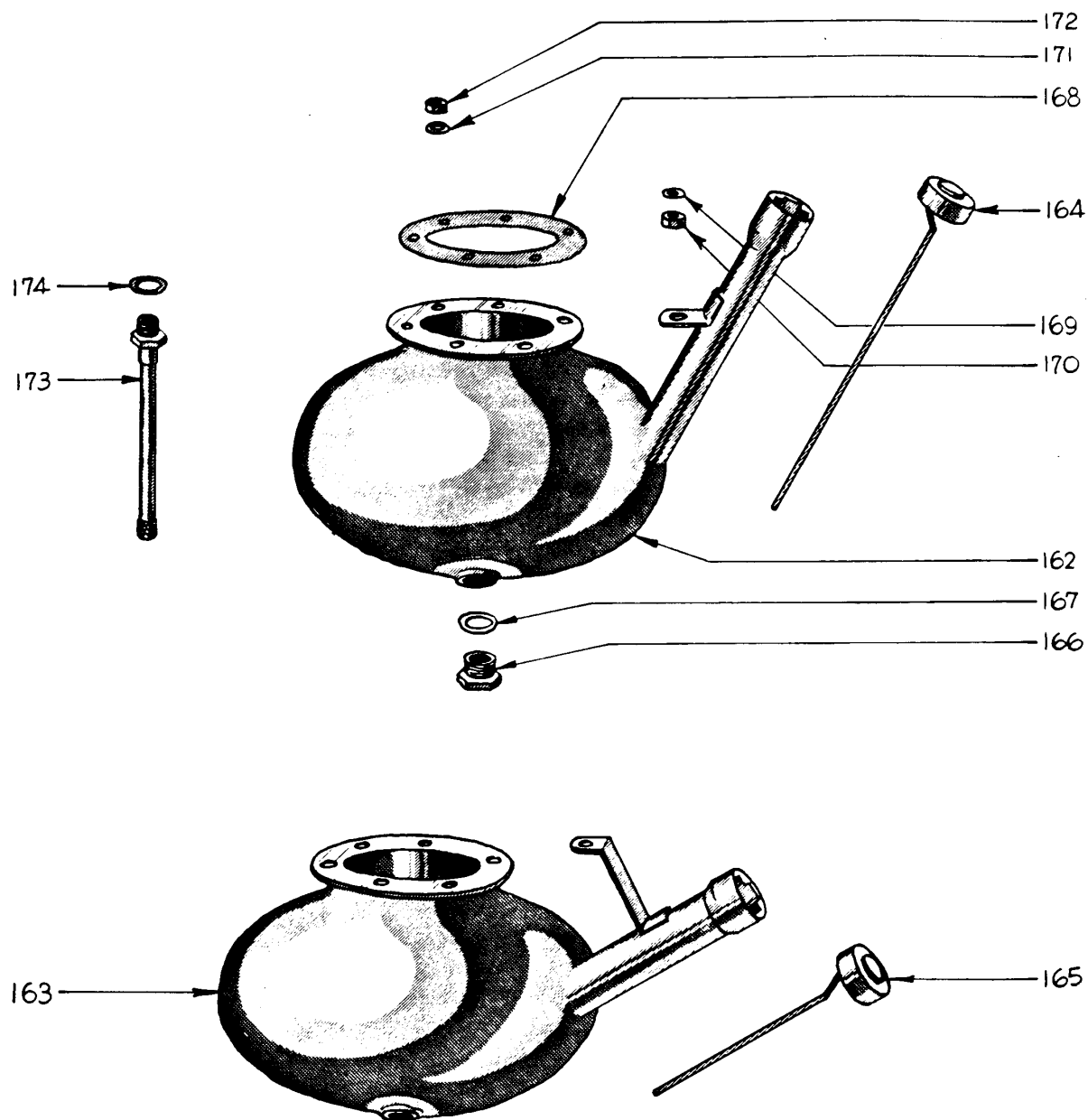


Figure 34
OIL SUMP AND OIL SUCTION TUBE

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

OIL SUMP AND OIL SUCTION TUBE

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
		*A5230-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5362-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5363-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5458-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5460-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5461-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		*A5479-A1	OIL SUMP ASSEMBLY — COMPLETE	1
		A50331-A1	OIL SUMP ASSEMBLY — COMPLETE	1
			Includes the following corresponding parts and assemblies:	
162	34	*A5230	OIL SUMP ASSEMBLY	1
		*A5362	OIL SUMP ASSEMBLY	1
163	34	*A5363	OIL SUMP ASSEMBLY	1
		*A5458	OIL SUMP ASSEMBLY	1
		*A5460	OIL SUMP ASSEMBLY	1
		*A5461	OIL SUMP ASSEMBLY	1
		*A5479	OIL SUMP ASSEMBLY	1
		A50331	OIL SUMP ASSEMBLY	1
164	34	A3966	OIL GAGE CAP ASSEMBLY (Used with A5230, A5459, and A5460)	1
		A3657	OIL GAGE & CAP ASSEMBLY (Used with A5362)	1
		A3966	OIL GAGE & CAP ASSEMBLY (Used with A5230 and A5460)	1
165	34	A3680	OIL GAGE & CAP ASSEMBLY (Used with A5363)	1
		A3896	OIL GAGE & CAP ASSEMBLY (Used with A5458)	1
		A3970	OIL GAGE & CAP ASSEMBLY (Used with A5461)	1
		A35017	OIL GAGE & CAP ASSEMBLY (Used with A5479)	1
		A35919	OIL GAGE & CAP ASSEMBLY (Used with A50331)	1
166	34	2265	Plug — Oil sump drain	1
167	34	AN900-10	Gasket — Oil sump drain plug	1
		2220	Wire — Lock, Oil sump drain plug to sump	UAR
		22404	Gasket — Oil Gage Cap	1

ASSOCIATED PARTS

168	34	3577	Gasket — Oil sump	1
169	34	20522	Washer — $\frac{1}{4}$, Oil sump to crankcase	6
170	34	22661	Nut — $\frac{1}{4}$ Elastic Stop, Oil sump to crankcase	6
171	34	2473	Washer — $\frac{1}{8}$, Oil sump bracket to crankcase	1
172	34	2457	Nut — $\frac{1}{8}$, Oil sump bracket to crankcase	1
		2220	Wire — Lock, Oil sump bracket to crankcase arm	UAR
173	34	A22301	OIL SUCTION TUBE ASSEMBLY	1
			Includes the tube, nut, and screen.	
174	34	AN900-10	Gasket — Suction Tube Assembly	1

NOTE: For Crankcase Cover Assembly Used on Series 7 Engines (Discontinued), Order Part No. A-6226-A

*NOTE: When ordering oil sumps specify the number stamped on the flange.
If no number is found, be sure to advise airplane make and model.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

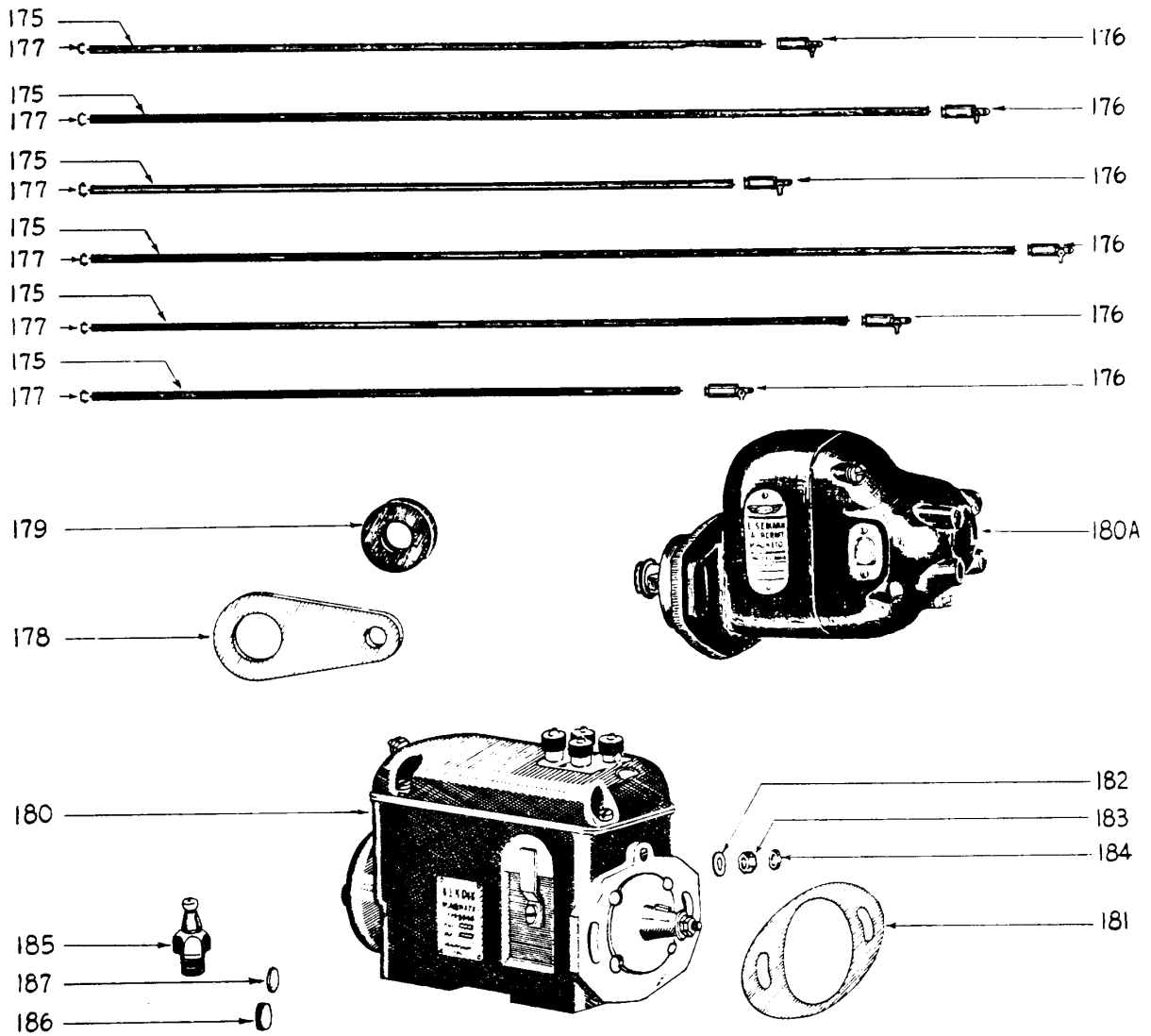


Figure 35
IGNITION SYSTEM — UNSHIELDED

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

IGNITION SYSTEM (UNSHIELDED)

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
		A21082-A2	IGNITION CABLE ASSEMBLY—CASE, SCINTILLA (Series 8)	1
		A21082-A3	IGNITION CABLE ASSEMBLY—CASE, SCINTILLA (Series 9)	1
		A25141-A2	IGNITION CABLE ASSEMBLY (EISEMANN AM-4)	1
175	35	21082	Cable — Ignition	UAR
176	35	2306	Terminal, Spark Plug Cable Safety Lock	8
		25142	Clip — Magneto Terminal (Eisemann AM-4)	8
177	35	21455	Clip — Magneto Terminal (J.I. Case, Scintilla)	8
178	35	22493	Bracket — Ignition Cable (On Magneto Stud)	2
		24841	Bracket — Ignition Cable (On Cylinder Stud)	4
179	35	22495	Grommet — Ignition cable	6

ASSOCIATED PARTS

180	35	5394	Magneto — Scintilla SF4R-8 (Scintilla 10-19293-1)	2
150	33	3513	Gear — Magneto Drive (Series 8)	2
151	33	3700	Gear — Magneto Drive (Series 9)	2
		A50398	Magneto and Gear Assembly — J. I. Case (Left Side)	1
		50350-A1	Magneto and Gear Assembly — J. I. Case (Right Side)	1
		530143	Magneto and Gear Assembly (Left Side)	1
180A	35	50406	Magneto — Eisemann model AM-4 (Impulse Coupling)	1
		36067	Gear — Magneto Drive	1
		24739-A1	Magneto and Gear Assembly (Right Side)	1
		24739	Magneto — Eisemann model AM-4 (No Impulse)	1
		3513	Gear — Magneto Drive	1
181	35 & 36	500278	Gasket — Magneto Flange	2
182	35 & 36	2555	Washer — Magneto to Crankcase Cover Stud	4
183	35	2439	Nut — Magneto to Crankcase Cover Stud	4
184	35	2560	Palnut — Magneto to Crankcase Cover Stud	4
185	35	22460	Spark Plug — Champion C26	8
186	35	21469	Plug — Magneto Ventilator (Series 9)	2
187	35	21491	Gasket — Magneto Ventilator (Series 9)	2

This diagram shows an exploded view of a mechanical assembly. At the bottom left is a main housing or motor unit (181) with various ports and a circular access panel (200). To its right is a circular component (182). Above these are several long, thin tubes or cables (183, 184, 185, 186, 187, 188, 189, 190, 191) that branch out into multiple smaller tubes or wires (192, 193, 194, 195, 196, 197, 198, 199). These tubes terminate in various connectors, valves, and fittings (201). The diagram is a technical illustration showing the spatial relationship between the components before they are assembled.

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ILLUSTRATED PARTS LIST — A50, A65, A75 AND A8C ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

IGNITION SYSTEM (RADIO SHIELDED)

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Indicated Per Assy.
		B35048-A1	RADIO SHIELDED IGNITION CABLE ASSEMBLY — COMPLETE (Series 9).....	1
		B3785-A1	RADIO SHIELDED IGNITION CABLE ASSEMBLY — COMPLETE (Series 8).....	1
188	36	B3785	CABLE ASSEMBLY — CYL. 1 & 3 UPPER (Series 8)	1
189	36	B3787	CABLE ASSEMBLY — CYL. 1 & 3 LOWER (Series 8)	1
190	36	B3786	CABLE ASSEMBLY — CYL. 2 & 4 UPPER (Series 8)	1
191	36	B3788	CABLE ASSEMBLY — CYL. 2 & 4 LOWER (Series 8)	1
		B35048	CABLE ASSEMBLY — CYL. 1 & 3, 2 & 4 LOWER (Series 9)	1
		B3782	CABLE ASSEMBLY — CYL. 2 & 4 UPPER (Series 9)	1
		B3783	CABLE ASSEMBLY — CYL. 1 & 3 UPPER (Series 9)	1
			Each of the above assemblies includes all necessary brackets, rivets, and the following parts:	
		21541	Cable — Ignition (Radio Shielded).....	UAR
192	36	21455	Clip — Magneto terminal (Scintilla #10-12360).....	8
193	36	20087	Ferrule — Cable.....	8
194	36	*A22886	Elbow assembly (BG#E530) with 5/8-24 thread on spark plug end (with "B" assemblies only).....	8
		**21439	Elbow (BG No. #526) with 1/8-27 thread on spark plug end	8
195	36	21440	Sleeve — Terminal (BG#M366)	8
196	36	22548	Nut — Terminal (Scintilla #10-14855).....	8
197	36	22549	Gland — Rubber (Scintilla #10-2617)	8

ASSOCIATED PARTS

198	36	22742	Spark plug — Champion LM3-1S (Use with 21439 elbow)	8
199	36	22465	Spark plug — Champion C26S (Use with A22886 elbow)	8
200	36	5395	Magneto — Scintilla SF4R-8 (#10-19393-2)	2
150	33	3513	Gear — Magneto Drive (Series 8)	2
151	33	3700	Gear — Magneto Drive (Series 9)	2
201	36	A23683	Terminal — Shielded Ground (Scintilla #10-16507).....	2
			Used to convert unshielded magneto (5394) to shielded magneto (5395).	

*With 5/8-24 thread on spark plug end — for use with Champion C26S spark plugs.

All "B" assemblies (ignition cable) are equipped with this elbow.

**For Radio Shielded Ignition Assemblies equipped with this elbow (for use with 22742 spark plug) order same part number as shown above except that it must be preceded with an "A". Example: "A3785" instead of "B3785".

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

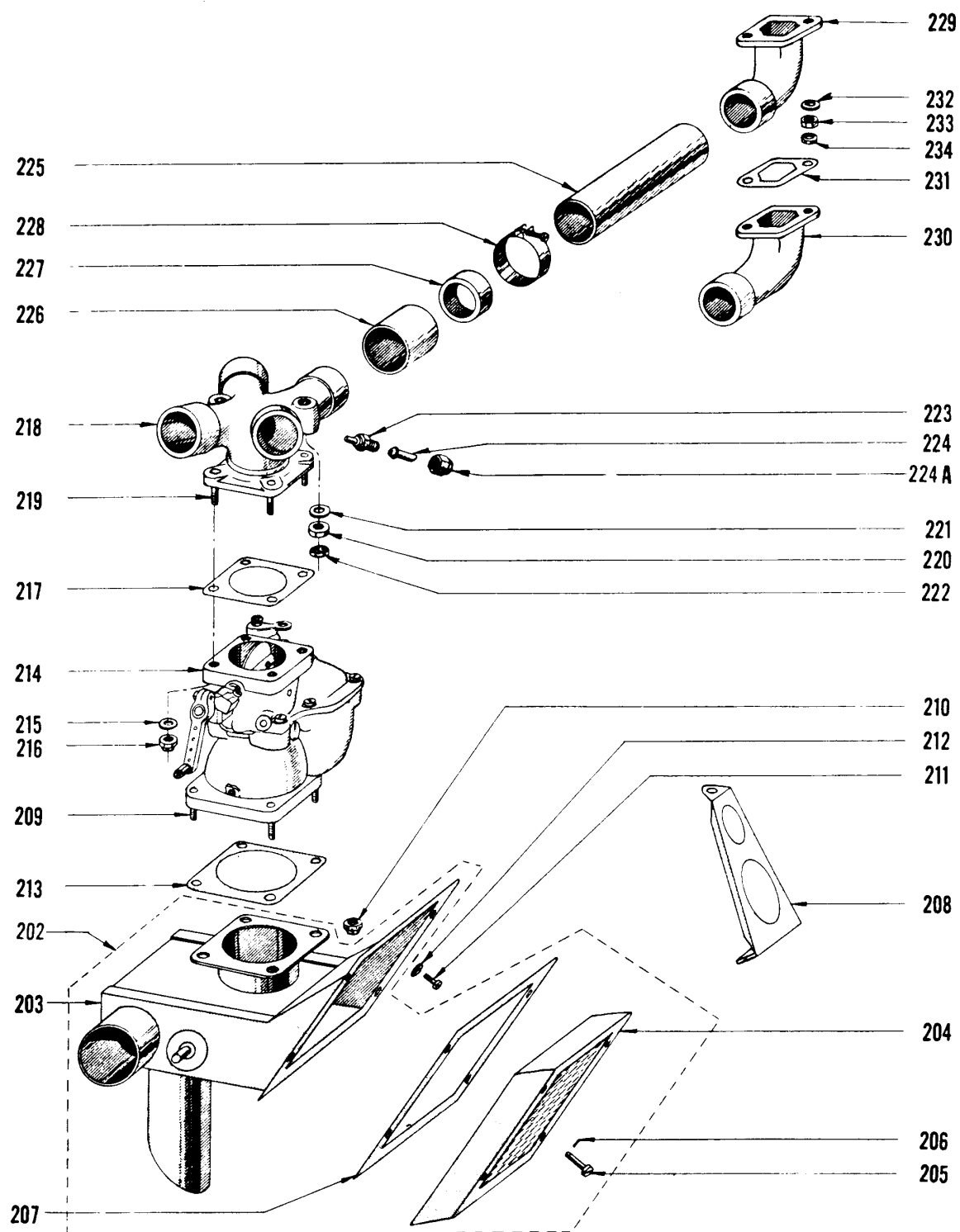


Figure 37
CARBURETOR, CARBURETOR AIR INTAKE AND FILTER SYSTEM

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ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

CARBURETOR, CARBURETOR AIR INTAKE AND FILTER SYSTEM

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Indicated Per Assy.
		Eq. 5370	INTAKE AND FILTER EQUIPMENT — CARBURETOR	
			AIR (STROMBERG) (includes following 13 Parts).....	1
202	37	A40522	INTAKE ASSEMBLY — CARBURETOR AIR (STROMBERG)	1
203	37	A50256	HOUSING ASSEMBLY	1
204	37	40599	FILTER — CARBURETOR AIR	1
205	37	24306	Stud — Filter to Housing	4
206	37	24308	Cross Pin	4
207	37	35923	Gasket — Filter to Housing	1
208	37	†A35917	SUPPORT ASSEMBLY — INTAKE HOUSING	1
209	37	*21393-03	Stud — Carburetor to Housing	4
210	37	2456	Nut — Carburetor to Housing Stud	4
		2220	Wire, Lock — Housing to Carb. Stud Nuts	1 ft.
211	37	AN501-A10-5	Screw — Support to Housing	2
212	37	2471	Washer — Support to Housing Screw	2
213	37	21323	Gasket — Carburetor to Housing	1
		A40793-A1	INTAKE AND FILTER EQUIPMENT (MARVEL CARB.)	1
			(Same as Eq. 5370 except following two Parts)	
		A50793	INTAKE ASSEMBLY — Carb. Air (Marvel)	1
		A50495	HOUSING ASSEMBLY	1
214	37	3628	Carburetor — Stromberg NA-S3A1 (#A-18033A-3).....	1
		40796	Carburetor — Marvel Schebler MA-3PA (Optional)	1
215	37	20522	Washer — 1/4, Carburetor to intake manifold.....	4
216	37	2456	Nut — 1/4, castle, Carburetor to intake manifold.....	4
		2220	Washer — Carburetor to intake manifold	4
217	37	21051	Gasket — Carburetor to intake manifold.....	1
218	37	4780-A1	INTAKE MANIFOLD ASSEMBLY.....	1
			Includes the manifold and the following part:	
219	37	*23401	Stud — 1/4, Carburetor to intake manifold.....	4
220	37	2557	Nut — 3/8, Intake manifold to crankcase.....	2
221	37	2474	Washer — 3/8, Intake manifold to crankcase.....	2
222	37	2561	Palnut — 3/8, Intake manifold to crankcase.....	2
223	37	AN4022-1	Primer Jet Assembly	1
224	37	20720	Cone, 1/8" Union	1
224A	37	AN805-2	Nut, Union	1
225	37	21182	Pipe — Intake	4
226	37	22800	Hose — 1 3/4 O.D., Intake pipe to manifold and elbow.....	8
227	37	21185	Hose — 1 1/2 O.D., Intake pipe to manifold and elbow.....	8
228	37	36151-B	Clamp — Intake pipe hose.....	16
229	37	**3585	Elbow — Intake, Cylinders 2 and 3.....	2
230	37	**4602	Elbow — Intake, Cylinders 1 and 4.....	2
231	37	21327	Gasket — Intake elbow	4
232	37	20522	Washer — 1/4, Intake elbow to cylinder head.....	8
233	37	2437	Nut — 1/4, Intake elbow to cylinder head.....	8
234	37	2886	Palnut — 1/4, Intake elbow to cylinder head.....	8

*Available in oversize or undersize. See oversize and undersize parts list.

†For special brackets for use when oil cooler is installed under engine. See Oil Cooler Equipment page 76.

**For Elbows for use on fuel injection engine refer to page 74, Fuel Injector Equipment.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

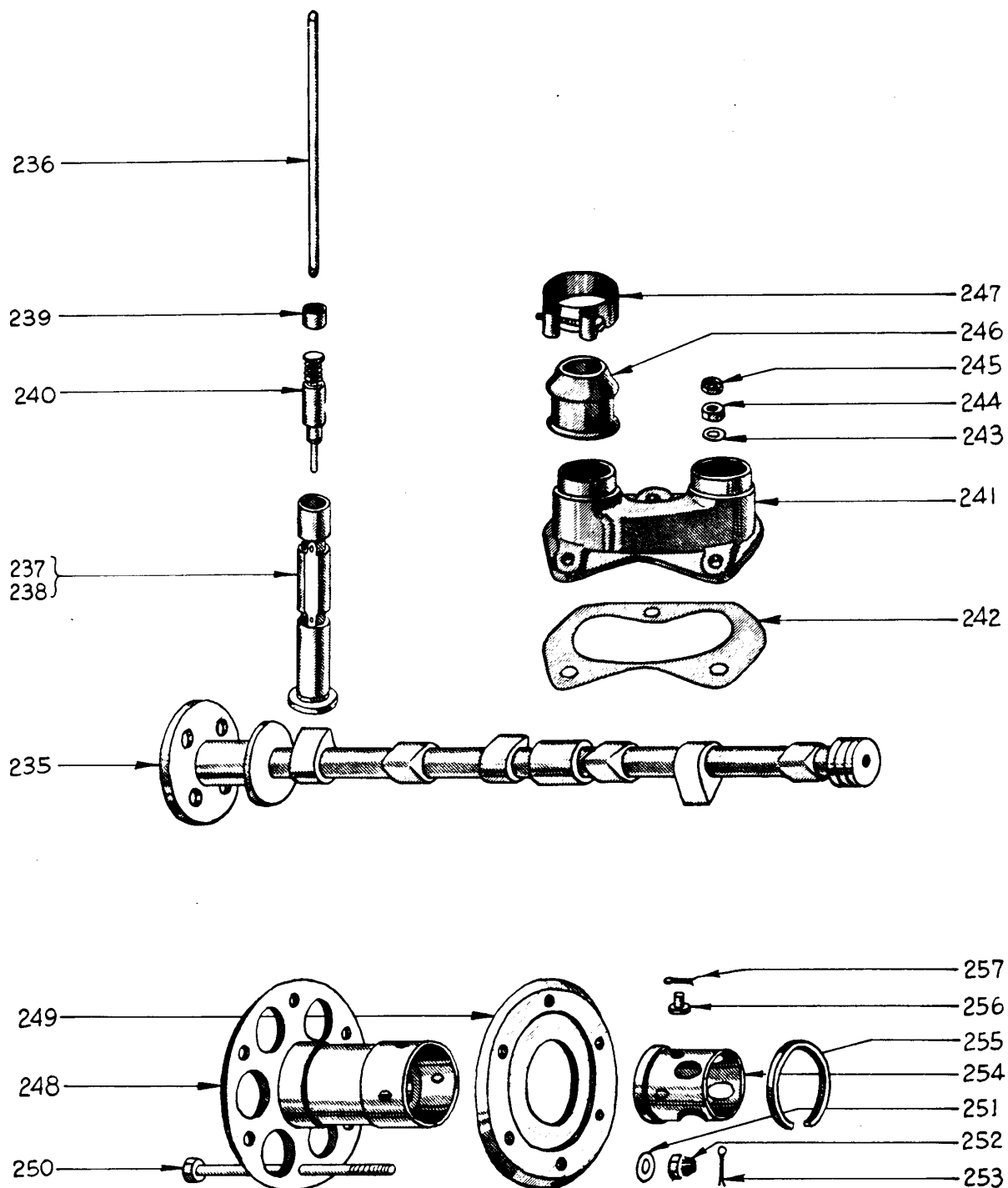


Figure 38

**CAMSHAFT, PUSH RODS AND VALVE TAPPETS
PROPELLER HUB**

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

CAMSHAFT, PUSH RODS AND VALVE TAPPETS — PROPELLER HUB

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
235	38	4546	CAMSHAFT (Standard)	1
		**A21355	PUSH ROD ASSEMBLY (Use with A21325 Tappet Assembly only) (length=10.618" — 10.628")	8
			Includes rod and ball ends	
236	38	*A21509	PUSH ROD ASSEMBLY (Use with A21599 Tappet Assembly only) (length=10.807" — 10.817")	8
			Includes rod and ball ends	
		**A21325	VALVE TAPPET ASSEMBLY (Use with A21355 Push Rod only)	8
		*A21599	VALVE TAPPET ASSEMBLY (Use with A21509 Push Rod only) includes	8
237	38	21389	Body — Valve tappet (cam follower) with A21325	1
238	38	21608	Body — Valve tappet (cam follower) with A21599	1
239	38	25042	Cup — Valve tappet — push rod	1
		‡21390	Hydraulic unit — Valve tappet (with A21325)	1
240	38	‡21609	Hydraulic unit — Valve tappet (with A21599)	1
241	38	530163	Flange — Push rod housing	4
242	38	21170	Gasket — Push rod housing flange	4
243	38	20522	Washer — 1/4, Push rod flange to crankcase	12
244	38	2437	Nut — 1/4, Push rod flange to crankcase	12
245	38	2886	Palnut — 1/4, Push rod flange to crankcase	12
246	38	21274	Connection — Push rod housing	8
247	38	36151-C	Clamp — Hose, 1 1/4, Push rod housing	8
		A3746	PROPELLER HUB ASSEMBLY	1
			Includes the following parts:	
248	38	3745	Hub — Propeller (S.A.E. #0 taper shaft)	1
249	38	3991	Flange — Propeller hub	1
250	38	21468	Bolt — 3/8 x 4 1/4, Propeller hub to flange	6
251	38	2474	Washer — 3/8, Propeller hub to flange	6
252	38	2458	Nut — 3/8, Castle, Propeller hub to flange	6
253	38	2506	Cotter pin — Propeller hub bolt	6
254	38	21202	Nut — Propeller hub	1
255	38	21203	Ring — Propeller hub snap	1
256	38	AN392-11	Pin — Flat head, Propeller hub nut	1
257	38	2500	Cotter Pin, Propeller nut flat head	1

*Used on A50 engines after #129197.

*Used on A65 engines after #404298.

*Used on A75 engines after #630698.

*Used on all A80 engines.

**Used on A50 engines through #12197.

**Used on A65 engines through #404298.

**Used on A75 engines through #630698.

‡Hydraulic Unit Lengths from top of plunger to shoulder of cylinder (with plunger bottomed):

21609 = 1.238 — 1.266

21390 = 1.426 — 1.454

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

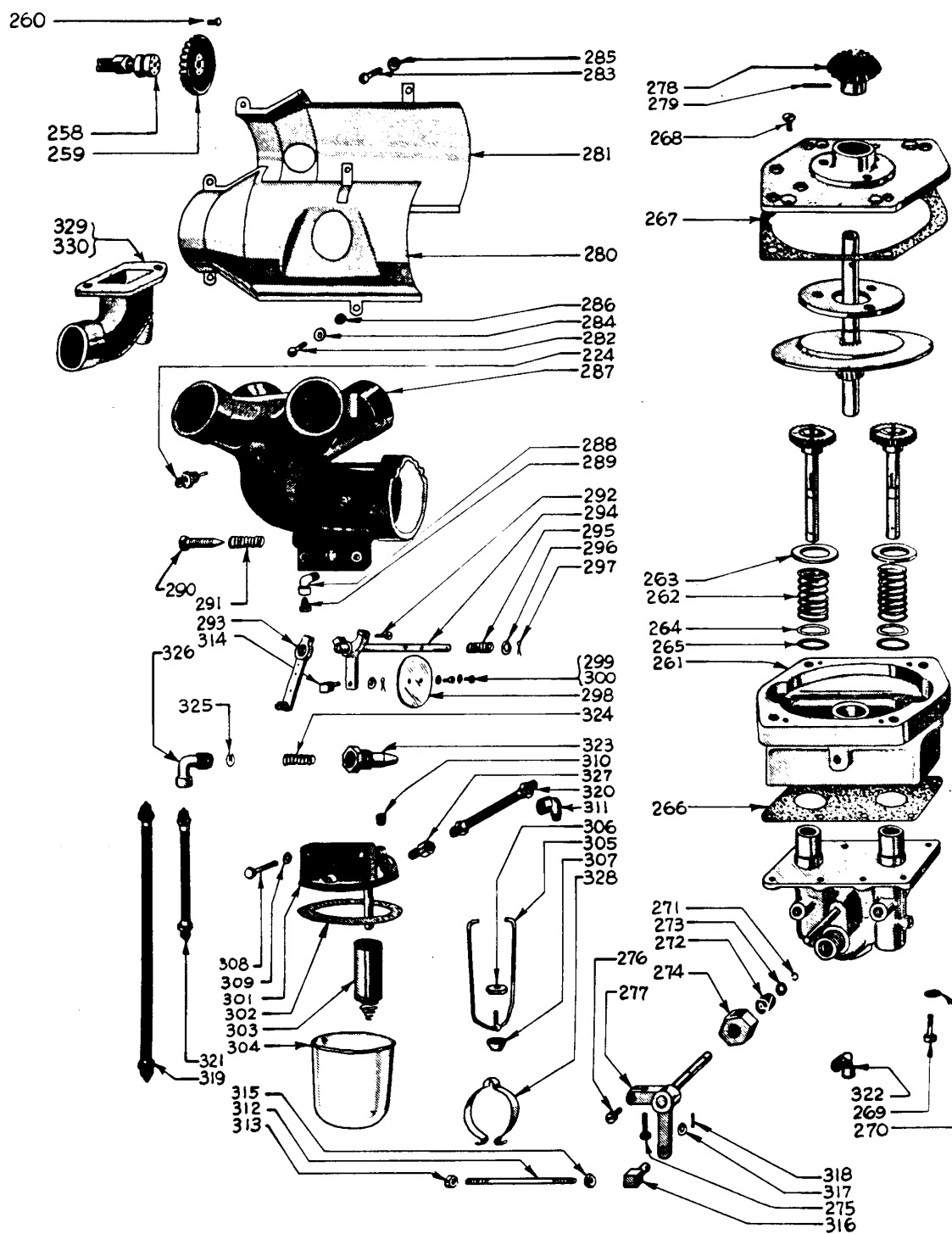


Figure 39
FUEL INJECTOR EQUIPMENT

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

FUEL INJECTOR EQUIPMENT				Number Per Assy. Indicated
Ref. No.	Fig. No.	Part Number	Name and Description of Part	
258	39	21403	Camshaft — for Fuel Injector.....	1
259	39	3660	Gear — Fuel Injector (Driver).....	1
260	39	AN502-10-8	Screw — Fill. head (Dr.), Fuel injector drive gear to camshaft	6
		A4606	FUEL INJECTOR ASSEMBLY — COMPLETE.....	1
			Includes the following assemblies and parts:	
261	39	4606	FUEL INJECTOR UNIT COMPLETE (Clockwise Rotation)	1
			The following parts of the above unit are replaceable:	
262	39	A-13-1	Spring — Plunger (Fuel injector).....	2
263	39	A-9-3	Seat — Plunger spring, Oilite (Fuel injector).....	2
264	39	A-9-2	Washer — Plunger spring (Fuel injector).....	2
265	39	A-10-3	Gasket — Plunger spring boss (Fuel injector).....	2
266	39	A-10-1	Gasket — Injector housing to injector pump head	1
267	39	A-10-2	Gasket — Injector housing to injector cam bearing plate	1
268	39	A-11-1	Screw — Flat head — Cam bearing plate to injector housing	4
269	39	A-15-1	Screw — Fill. hd., Injector pump head to injector housing	8
270	39	A-22-1	Lockwasher — Injector pump head to injector housing	8
271	39	A-29	Circlip — Metering shaft (Fuel injector).....	1
272	39	A-33	Packing — Metering shaft gland nut (Fuel injector).....	1
273	39	A-9-7	Washer — Metering shaft packing (Fuel injector).....	1
274	39	A-12-1	Gland nut — Metering shaft (Fuel injector).....	1
275	39	A-15-2	Screw — Fill. hd., Metering shaft lever-adjusting (Fuel injector)	1
276	39	A-15-3	Screw — Fill. hd., Metering shaft lever adjusting screw — lock (Fuel injector).....	1
277	39	A-103	METERING CONTROL VALVE SHAFT ASSEMBLY	1
278	39	21402	Gear — Fuel injector — driven.....	1
279	39	20596	Pin — Fuel injector driven gear to drive shaft.....	1
280	39	A4618	AIR INTAKE HOUSING ASSEMBLY (Right Half).....	1
281	39	A4619	AIR INTAKE HOUSING ASSEMBLY (Left Half).....	1
282	39	20668	Screw — #10-24 — Air intake housings — Right to Left	3
283	39	20668	Screw — #10-24 — Air intake housing to injector.....	2
284	39	936-A10	Lockwasher — Air intake housings — Right to Left.....	3
285	39	936-A10	Lockwasher — Air intake housing to injector.....	2
286	39	AN340-10 A-302	Nut — 10-24, Air intake housing, right to left.....	3
			INTAKE MANIFOLD ASSEMBLY (Fuel Injector).....	1
			Includes the following parts and assemblies:	
287	39	5463	Manifold — Intake	1
288	39	22012	Elbow — 1/4, Intake manifold drain.....	1
289	39	22019	Nut and Sleeve Assembly.....	1
290	39	22021	Screw — Injector air bleed.....	1
291	39	21513	Spring — Injector air bleed screw.....	1
292	39	21482	Screw — #8-32 air control valve stop lever	4
293	39	A21423	LEVER ASSEMBLY — THROTTLE	1
294	39	A-1011	AIR CONTROL VALVE SHAFT ASSEMBLY (Fuel injector)	1
			Consists of a shaft, stop lever and pin.	

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
295	39	21481	Spring — Air control valve shaft.....	1
296	39	2473	Washer — Air control valve shaft spring.....	1
297	39	AN380-3-2	Cotter pin — Air control valve shaft.....	1
298	39	21424	Valve — Throttle	1
299	39	21431	Screw — #8-32, Throttle valve to shaft.....	2
300	39	21597	Lockwasher — Throttle valve to shaft screw.....	2
		A3934	SEDIMENT BOWL ASSEMBLY	1
			Includes the following parts and assemblies:	
301	39	A-31-2	Cover — Sediment — Bowl (Fuel injector).....	1
302	39	A-1005	Gasket — Sediment Bowl (Fuel injector).....	1
303	39	A-37-A-1	STRAINER ASSEMBLY (Fuel injector).....	1
304	39	A-1006	Bowl — Glass, sediment (Fuel injector).....	1
305	39	A-1	CLAMP AND SCREW ASSEMBLY — BOWL (Fuel injector)	1
306	39	A-105-1	Nut — Bowl screw (Fuel injector).....	1
307	39	A-1007	Seat — Sediment bowl (Fuel injector).....	1
308	39	22051	Screw — 1/4, Sediment Bowl Assembly to Intake Manifold	2
309	39	20522	Washer—1/4, Sediment Bowl Assembly to Intake Manifold	2
310	39	2024	Plug — 1/2 pipe, Sediment bowl cover vent hole.....	1
311	39	22012	Elbow — 14, Sediment bowl to injector tube.....	1
		A-108	ROD ASSEMBLY COMPLETE — INJECTOR LEVER TO THROTTLE LEVER (Fuel injector).....	1
			Includes the following parts:	
312	39	21427	Rod — Injector lever to throttle lever.....	1
313	39	21475	Nut — #10-32 (Left hand thread) Injector Rod—Lock	1
314	39	21476	Rod End — (Left hand thread) Injector lever to throttle lever	1
315	39	2436	Nut—#10-32 (Right hand thread) Injector Rod—Lock	1
316	39	21428	Rod End (Right hand thread) Injector lever to throttle lever	1
317	39	2471	Washer — #10 Rod end, Air control.....	2
318	39	2501	Cotter pin — Rod end, Air control.....	2
319	39	A22014	TUBE ASSEMBLY — FUEL INJECTOR TO INTAKE ELBOW	4
320	39	A22020	TUBE ASSEMBLY — SEDIMENT BOWL TO FUEL INJECTOR	1
321	39	A22008	TUBE ASSEMBLY — FUEL INJECTOR VENT.....	1
322	39	A22017	Elbow — Fuel injector vent.....	1
323	39	35832	JET — ENGINE INTAKE ELBOW	4
326	39	21375	Elbow — Injector jet	1
327	39	22011	Coupling — Female, Sediment bowl to 1/4" O.D. tube.....	1
328	39	22010	Clip — Injector tube to intake pipe.....	4
		21404	Gasket — Injector to crankcase.....	1

ASSOCIATED PARTS

329	39	22524	Elbow — Intake (Cyl. 1 and 4)	2
330	39	22525	Elbow — Intake (Cyl. 2 and 3).....	2

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

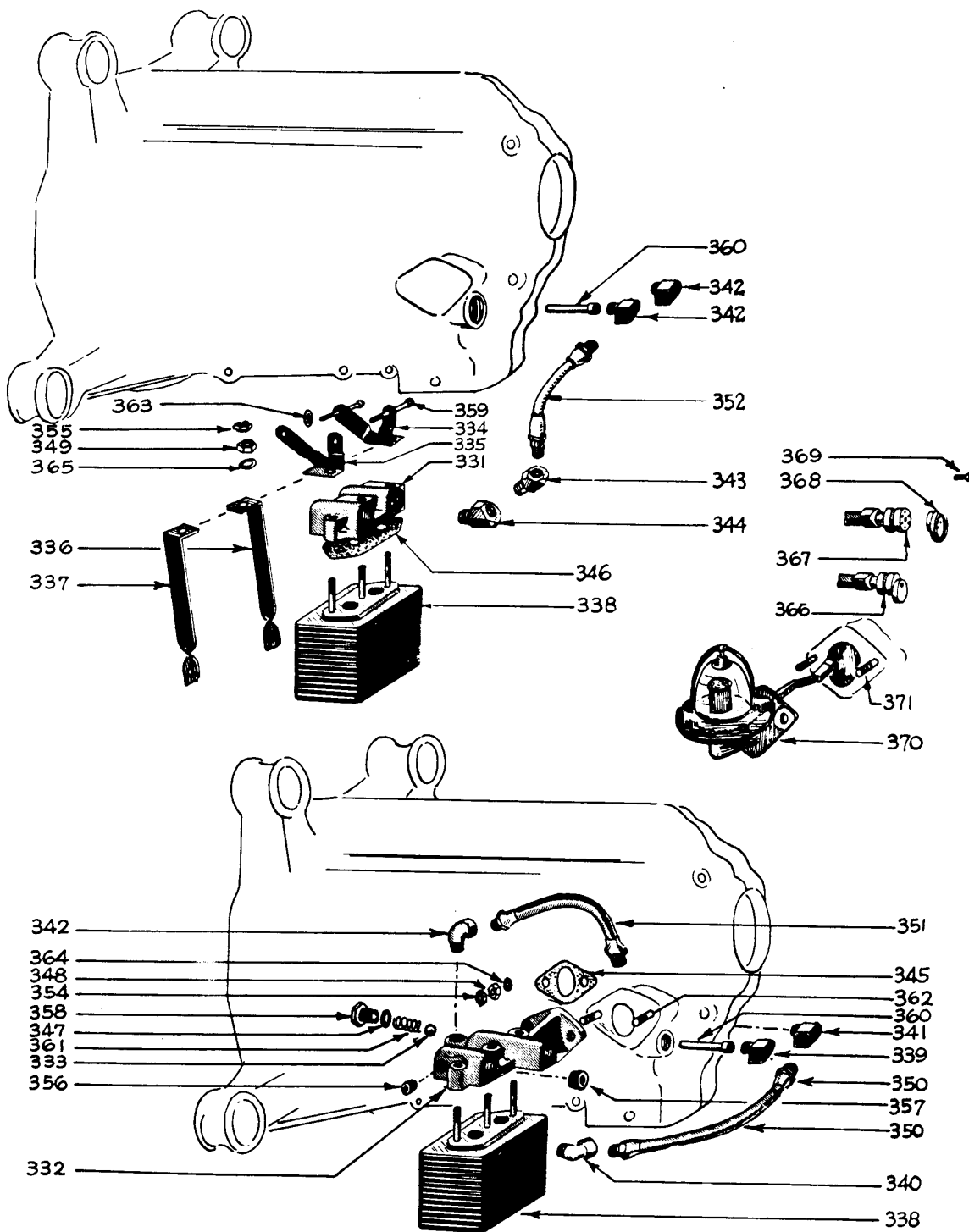


Figure 40
FUEL PUMP AND OIL COOLER EQUIPMENT

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

OIL COOLER EQUIPMENT

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
331	40	*3875	Adapter — Oil cooler	1
332	40	**4732	Adapter — Oil cooler	1
333	40	2849	Ball — $\frac{1}{8}$ steel, By-pass valve.....	1
334	40	*22131	Bracket — Oil cooler adapter (Crankcase 2-4).....	1
335	40	*22132	Bracket — Oil cooler adapter (Crankcase 1-3).....	1
336	40	*A23655	Bracket — Carburetor air intake housing to oil cooler bracket (2 and 4 side).....	1
337	40	*A23657	Bracket — Carburetor air intake housing to oil cooler bracket (1 and 3 side).....	1
338	40	3883	Cooler — Oil (Harrison)	1
339	40	**22140	Elbow — Inverted Male — Oil tube to crankcase 1-3.....	1
340	40	**22140	Elbow — Inverted Male — Oil tube to adapter.....	1
341	40	**22271	Elbow — 90 — $\frac{3}{8}$ M. to F. pipe thread, Oil tube to crankcase 2-4	1
342	40	*22271	Elbow — 90 — $\frac{3}{8}$ M. to F. pipe thread	2
343	40	*22296	Elbow — 45 — $\frac{3}{8}$ M. to F., Oil tube to 45 elbow (ret. 344)	2
344	40	*22295	Elbow — 45 — $\frac{3}{8}$ M. to F., Crankcase to 45 elbow (ret. 343)	2
345	40	*21064	Gasket — Adapter to crankcase.....	1
346	40	22133	Gasket — Oil cooler to adapter.....	1
347	40	AN900-10 2220	Gasket — By-pass valve plug..... Lockwire — (50 ft. roll).....	1 UAR
348	40	**2439	Nut — $\frac{1}{8}$ -24 — Adapter to crankcase studs.....	2
349	40	2441	Nut — $\frac{3}{8}$ -24, Oil cooler studs.....	3
350	40	**22198	OIL TUBE ASSEMBLY (10 $\frac{1}{4}$ in. long) — OIL COOLER TO CRANKCASE 2-4	1
351	40	**22199	OIL TUBE ASSEMBLY (6 $\frac{1}{4}$ in. long) — OIL COOLER TO CRANKCASE 1-3	1
352	40	*22293	OIL TUBE ASSEMBLY — OIL COOLER TO CRANKCASE (Both sides)	2
354	40	**2560	Palnut — $\frac{1}{8}$, Adapter to crankcase studs.....	2
355	40	2561	Palnut — $\frac{3}{8}$, Oil cooler stud.....	3
		*20882	Plug — $\frac{1}{8}$ pipe, Square head (drilled).....	1
356	40	**20288	Plug — $\frac{1}{4}$ pipe, Countersunk head — Oil cooler adapter.....	1
357	40	**2025	Plug — $\frac{3}{8}$ pipe, Countersunk head — Oil cooler adapter.....	1
358	40	2265	Plug — $\frac{5}{8}$, hex head — By-pass valve.....	1
359	40	*22134	Screw — $\frac{1}{4}$ -28 hex. head, Oil cooler adapter to crankcase.....	2
360	40	22130	Sleeve — Oil line — crankcase 1-3 side.....	1
361	40	2848	Spring — By-pass valve	1
362	40	**20001	Stud — $\frac{1}{8}$ x 1 $\frac{1}{4}$, crankcase 1-3 to adapter.....	2
363	40	*22139	Washer — $\frac{3}{8}$ x $\frac{5}{8}$ x $\frac{1}{8}$ thick, Bracket to crankcase—spacing	4
364	40	**2473	Washer — $\frac{1}{8}$ — Adapter to crankcase studs.....	2
365	40	2474	Washer — $\frac{3}{8}$, Oil cooler studs.....	3

*For under-engine mount only (Equip. 5198).

**For crankcase 1-3 side mount only (Equip. #5199). This installation cannot be made on engines equipped with fuel pump.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

GROUP ASSEMBLY PARTS LIST — Continued

FUEL PUMP EQUIPMENT

Ref. No.	Fig. No.	Part Number	Name and Description of Part	Number Per Assy. Indicated
366	40	*4608	Camshaft (Fuel pump)	1
367	40	**21521	Camshaft (Fuel pump with Fuel Injector).....	1
368	40	**21525	Eccentric — Fuel pump (with 21521).....	1
369	40	**AN502-10-12	Screw — 10-32, Fuel pump thru fuel injection drive gear to camshaft	3
		**21527	Dowel — Fuel pump eccentric (with 21521 camshaft.....	1
370	40	4552	Fuel pump (A. C.).....	1
		21064	Gasket — Fuel pump	1
371	40	†20001	Stud — $\frac{1}{8}$ x $1\frac{1}{4}$, Fuel pump to crankcase.....	2
		2473	Washer — $\frac{1}{8}$, Fuel pump to crankcase.....	2
		2439	Nut — $\frac{1}{8}$ -24, Fuel pump to crankcase.....	2
		2560	Palnut — $\frac{1}{8}$, Fuel pump to crankcase.....	2
		*21598	TUBE ASSEMBLY — FUEL PUMP TO CARBURETOR.....	1
		*21619	Elbow — $\frac{1}{4}$ O.D., Fuel pump inlet	1
		**21619	Elbow — $\frac{1}{4}$ O.D., Fuel pump inlet and outlet — and Fuel injector inlet	3
		**A3828	TUBE ASSEMBLY — Fuel pump to fuel injector.....	1

*For use on Carburetor Equipped Engines.

**For use on Fuel Injection Equipped Engines.

A3972	Gasket Set (Engine)	1
B3973	Gasket and Hose Connection Set	1

†Available in oversize or undersize. See oversize and undersize parts list.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

Section 15

NUMERICAL PARTS LIST

Part No.	Ref. No.	Name	Per Eng.		Part No.	Ref. No.	Name	Per Eng.	
			-8	-9				-8	-9
2002	71	Insert	8	8	3875	331	Adapter	+++	1 +++ 1
2018	111	Stud, 1/4" x 1"	0	4	3883	338	Cooler	+++	1 +++ 1
2024	4	Plug, 1/8" N.P.T.	7	7	A3896	.....	Gage & Cap (Opt.)	1	1
2025	3	Plug, 3/8" N.P.T.	2	2	A3934	.....	Bowl Assem.	++	1 ++ 1
2220	.....	Wire, Lock, 18 Ga. (50 Ft. Roll)	U.A.R.		A3966	164	Gage & Cap (Opt.)	1	1
2265	166	Plug, 5/16"-18	1	1	A3970	.....	Gage & Cap (Opt.)	1	1
2306	176	Terminal	8	8	3991	249	Flange	1	1
2389	79	Stud, 3/8" x 1 1/4"	8	8	4528	.....	Cover (Opt.)	4	4
2390	33	Stud, 3/8" x 1"	2	2	4544	64	Piston (A50)	4	4
2436	315	Nut, #10-32 R.H.	++	1 ++ 1	A4544	.....	Piston Assem.	4	4
2437	21	Nut, 1/4"-28, Hex.	36	40	4546	235	Camshaft	1	1
2439	46	Nut, 3/8"-24	16	22	4577	139	Gasket	1	0
2441	38A	Nut, 3/8"-24, Hex.	+	1 0	A4587	104	Cover Assem.	1	0
2443	37A	Nut, 1/2"-20	18	16	A4587-A	.....	Cover Assem.	1	0
2456	51	Nut, 1/4"-28 Castle	16	16	4602	230	Elbow	2	2
2457	156	Nut, 3/8"-24, Castle	1	2	4617	140	Gasket	0	1
2458	61	Nut, 3/8"-24 Hex.	14	14	A4618	280	Housing	++	1 ++ 1
2465	23	Stud, 3/8" x 1 1/4"	10	3	A4619	281	Housing	++	1 ++ 1
2471	212	Washer, 13/64" I.D. x 3/8" O.D.	2	2	4701	.....	Piston (A80)	4	4
2473	45	Washer, 21/64" I.D. x 3/8" O.D.	11	11	A4701	.....	Piston Assem.	4	4
2474	36	Washer, 25/64" I.D. x 1/2" O.D.	10	10	4732	332	Adapter	+++	1 +++ 1
2475	35	Washer, 29/64" I.D. x 1/2" O.D.	2	2	4780-A1	219	Manifold Assem.	1	1
2500	257	Pin, Cotter, 3/8" x 3/8"	1	1	A5230	162	Sump Assem. (Opt.)	1	1
2502	157	Pin, Cotter, 3/8" x 5/8"	0	1	A5230-A1	.....	Sump Assem. (Opt.)	1	1
2506	62	Pin, Cotter, 3/2" x 3/4" O.D.	14	14	A5362	.....	Sump Assem. (Opt.)	1	1
2555	182	Washer 21/64" I.D. x 3/4" O.D.	4	4	A5362-A1	.....	Sump Assem. (Opt.)	1	1
2557	38	Nut, 38"-24, Hex.	12	12	A5363	163	Sump Assem. (Opt.)	1	1
2560	47	Palnut, 1/8"	14	20	A5363-A1	.....	Crankcase Assem.	++	1 0
2561	39	Palnut, 3/8"	12	12	A5390-A1	.....	Crankcase Assem.	0	++ 1 0
2716	129	Nut—Cover	1	1	A5391-A1	.....	Crankcase Assem.	0	1
2848	361	Spring	+++	1 +++ 1	A5392-A1	1	Crankcase Assem.	0	1
2849	333	Ball, 1/2" Dia.	+++	1 +++ 1	A5393-A1	.....	Magneto (Opt.)	2	2
2886	22	Palnut, 1/4"	36	40	5394	180	Magneto (Opt.)	2	2
2958	39A	Palnut, 1/8"	18	16	5395	200	Sump Assem. (Opt.)	1	1
2985	31	Stud, 3/8" x 2 7/8"	1	1	A5458	.....	Sump Assem. (Opt.)	1	1
3506	148	Gear	1	1	A5458-A1	.....	Sump Assem. (Opt.)	1	1
3513	150	Gear	2	2	A5460	.....	Sump Assem. (Opt.)	1	1
3562	116	Gear & Shaft	1	1	A5461	.....	Sump Assem. (Opt.)	1	1
A3568	135	Screen Assembly	1	1	A5461-A1	.....	Manifold	++	1 ++ 1
3577	168	Gasket	1	1	5463	287	Sump Assem. (Opt.)	1	1
3585	229	Elbow	2	2	A5479	.....	Sump Assem. (Opt.)	1	1
3628	214	Carburetor (Opt.)	1	1	A5479-A1	.....	Cover Assembly	0	1
A3657	.....	Gage & Cap (Opt.)	++	1 ++ 1	A6234	105	Cover Assembly	0	1
3660	259	Gear	1	1	A6234-A	.....	Crankcase Assem.	+	1 0
A3680	165	Gage & Cap (Opt.)	1	1	6759-A1	2	Stud, 1/8" x 1 1/4"	2	2
3699	145	Gear	0	1	20001	42	Stud, 1/8" x 3 7/8"	0	2
3700	151	Gear	0	2	20020	.....	Ferrule	8	8
3701	124	Housing	0	1	20087	193	Stud, 3/8" x 2 1/2"	0	3
3745	248	Hub	1	1	20096	.....	Plug, 1/4" N.P.T.	+++	1 +++ 1
A3746	.....	Hub Assembly	1	1	20288	356	Washer, 1/4" Plain	67	71
B3762	70	Cylinder Assem.	4	4	20522	20	Pin	++	1 ++ 1
B3762-A1	.....	Cyl. Assembly	4	4	20596	279	Screw, #10-24 x 3/8"	++	5 ++ 5
B3762-A2	.....	Cylinder Assem.	4	4	20668	282	Cone, 1/8" Union	1	1
B3762-B	.....	Cylinder Assem.	4	4	20720	224	Plug, 1/8" N.P.T.	+++	1 +++ 1
B3762-B1	.....	Cylinder Assem.	4	4	20882	.....	Bushing (A75, A80)	4	4
3773	130	Housing	0	1	21003	59	Bolt, 3/8"-24 x 2 1/8"	8	8
B3782	.....	Cable Assembly	0	1	21004	60	Screw, Drive	14	14
B3783	.....	Cable Assembly	0	1	21007	9	Retainer	8	8
B3785	188	Cable Assembly	1	0	21025	86	Gasket	1	1
B3785-A1	.....	Cable Assembly	1	0	21051	218	Stud, 1/8" x 1 1/2"	10	10
B3786	190	Cable Assembly	1	0	21053	30	Stud, 1/8" x 6 3/8"	5	6
B3787	189	Cable Assembly	1	0	21054	27	Stud, 1/8" x 4 3/4"	2	2
B3788	191	Cable Assembly	1	0	21055	26	Cover	1	1
					21059	44	Gasket	1	1
					21064	43	Stud, 3/8" x 5"	1	1
					21075	32	Screw, 1/4" x 3 3/8"	2	2
					21076	19	Screw, 1/4" x 2 3/8"	4	4
					21077	17	Dowel, 1/4" x 1/8"	2	2
					21080	10	Cable (lgth. in Ft.)	U.A.R.	
					21082	175			

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

NUMERICAL PARTS LIST — Continued

Part No.	Ref. No.	Name	Per Eng.	Part No.	Ref. No.	Name	Per Eng.
			-8 -9				-8 -9
A21082-A2	....	Cable Assem.	1 0	21597	300	Washer, Lock, #8	†† 2 †† 2
A21082-A-3	....	Cable Assem.	0 1	A21599	....	Tappet Assembly	8 8
21083	144	Gear	1 0	21608	238	Body, Tappet	8 8
21113	115	Cap	1 1	21609	240	Unit, Hydraulic	8 8
21114	112	Plunger	1 1	22002	24	Stud, ¼" x 1"	6 6
21119	85	Seat	8 8	22004	....	Stud, ¼" x 1½"	24 24
21153	91	Shaft	4 4	22006	29	Stud, ¾" x 1½"	8 8
21160	118	Cover	1 1	A22008	321	Tube Assembly	†† 1 †† 1
21170	242	Gasket	4 4	22010	328	Clip	†† 4 †† 4
21176	16	Screw, ¼" x 1½"	4(2) 4	22011	327	Coupling	†† 1 †† 1
21182	225	Pipe	4 4	22012	288	Elbow	†† 2 †† 2
21185	227	Hose, 1½" I.D. x 1½" O.D. x ¾" Lg.	8 8	A22014	319	Tube Assembly	†† 4 †† 4
21202	254	Nut, Special	1 1	A22017	322	Elbow	†† 1 †† 1
21203	255	Ring, Snap	1 1	22019	289	Nut & Sleeve	†† 1 †† 1
21208	123	Housing	1 0	A22020	320	Tube Assembly	†† 1 †† 1
21218	14	Screw, ¼" x 1½"	1 1	22021	290	Screw	†† 1 †† 1
21219	15	Screw, ¼" x 2½"	2 2	22022	103	Nut, ⅝"-24	8 8
21274	246	Connector	8 8	22051	308	Screw, ¼"-20 x ⅞"	†† 2 †† 2
21284	76	Housing	8 8	22130	360	Sleeve	††† 1 ††† 1
21323	203	Gasket	1 1	22131	334	Bracket	††† 1 ††† 1
A21325	....	Tappet Assembly	8 8	22132	335	Bracket	††† 1 ††† 1
21327	231	Gasket	4 4	22133	346	Gasket	††† 1 ††† 1
21343	117	Gear & Shaft	1 1	22134	359	Screw, ¼"-28 x 2½"	††† 2 ††† 2
21346	146	Screw, ¼"-20 x 1½"	8 4	22139	363	Washer, ⅝" I.D. x ⅝" O.D.	††† 4 ††† 4
21350	48	Cover	†† 1 †† 1	22140	339	Elbow	††† 2 ††† 2
21352	113	Spring	1 1	22172	40	Stud, ¼" x 1½"	†† 4 †† 4
A21355	....	Pushrod Assembly	8 8	22198	350	Tube Assembly, 10¼" Long	††† 1 ††† 1
21359	80	Valve	4 4	22199	351	Tube Assembly, 6¼" Long	††† 1 ††† 1
21361	87	Lock	16 16	A22205	....	Set-Piston Ring	1 1
21365	83	Spring	8 8	B22205	....	Set-Piston Ring	1 1
21366	84	Spring	8 8	22211	81	Valve (A50, A65)	4 4
21375	326	Elbow	†† 4 †† 4	22255	59A	Bushing (A65)	4 4
21389	237	Body	8 8	22256	72	Pin	8 8
21390	....	Unit, Hydraulic	8 8	22271	341	Elbow, 90° x ¾"	††† 3 ††† 3
21393	108	Stud, ¼" x ⅞"	8 8	22293	352	Tube Assembly	††† 2 ††† 2
21402	278	Gear	†† 1 †† 1	22295	344	Elbow, 45° x ¾"	††† 2 ††† 2
21403	258	Camshaft	†† 1 †† 1	22296	343	Elbow, 45° x ¾"	††† 2 ††† 2
21404	49	Gasket	†† 1 †† 1	A22301	173	Tube Assembly	1 1
21419	75	Guide	4 4	22387	11	Bushing, Rubber	8 8
A21423	293	Lever Assembly	†† 1 †† 1	....	....	Gasket	1 1
21424	298	Valve	†† 1 †† 1	22423	25	Stud, ¼" x 1½"	20 20
21427	312	Rod	†† 1 †† 1	22460	185	Plug, Spark (Opt.)	8 8
21428	316	End, Rod	†† 1 †† 1	22465	199	Plug, Spark (Opt.)	8 8
21429	122	Gasket	0 1	22493	178	Bracket	2 2
21430	....	Cover	0 1	22495	179	Grommet	6 6
21431	299	Screw, #8-32 x 1½"	†† 2 †† 2	22524	329	Elbow	†† 2 †† 2
21437	153	Retainer	0 1	22525	330	Elbow	†† 2 †† 2
21440	195	Sleeve	8 8	22527	155	Washer, 21/64" I.D. x 1¼" O.D. x ⅞"	0 1
21445	....	Plate (A75)	1 1	22528	154	Screw, ⅝"-24 x 1⅞"	0 1
21447	147	Screw, ¼"-20 x 1½"	0 4	22535	159	Washer, 21/64" I.D. x ⅞" O.D. x ¼"	0 6
21448	18	Screw, ¼" x 3⅞"	1 1	22548	196	Nut	8 8
21449	....	Stud, ⅝" x 4"	0 2	22549	197	Gland	8 8
21455	192	Clip	8 8	22652	....	Plate (A50)	1 1
21459	....	Bracket	6 6	22653	8	Plate (A65)	1 1
21463	109	Stud, ⅝" x 1½"	0 4	22661	170	Nut, ¼" Elastic Stop	6 6
21468	250	Bolt, ⅝"-24 x 3¼"	6 6	22800	226	Hose, 1¾" I.D. x 2½" O.D. x 1½" Lg.	8 8
21469	186	Plug	0 2	22841	....	Bracket	4 4
21470	....	Plate	1 1	A22886	194	Elbow, ⅝"-24	8 8
21475	313	Nut, #10-32, L.H.	†† 1 †† 1	22949	....	Bushing	U.A.R.
21476	314	End, Rod	†† 1 †† 1	22995	....	Bracket	1 1
21477	96	Packing	4 4	23130	37	Nut, Spacer	2 2
21479	82	Valve (A75, A80)	4 4	A23191	....	Lever Assembly	1 1
21480	41	Stud, ⅝" x 1½"	2 2	23297	107	Stud, ⅝" x 1½"	4 4
21481	295	Spring	†† 1 †† 1	23401	212	Stud, ¼" x 1¼"	4 4
21482	292	Screw, #8-32	†† 1 †† 1	A23655	336	Bracket	††† 1 ††† 1
21485	....	Gasket (1-to-6)	0 0	A23657	337	Bracket	††† 1 ††† 1
21491	187	Gasket	0 2	A23683	201	Terminal	2 2
21492	101	Flange	4 4	24122	89	Bushing	8 8
A21509	236	Pushrod Assembly	8 8	A24122	88	Plug	1 1
21510	131	Gasket	0 1	24142	137	Rocker Assembly	8 8
21513	291	Spring	†† 1 †† 1				
21530	12	Washer, ½" I.D. x 1½" O.D.	4 4				
21541	....	Cable-Ignition (Lgths. in Ft.)	U.A.R.				

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

NUMERICAL PARTS LIST — Continued

Part No.	Ref. No.	Name	Per Eng.	
			-8	-9
24251	19A	Screw, ¼" x 1 ¼"	†10	0
24252	14A	Screw, ¼" x 1 ¼"	†3	0
24255	26A	Stud, ⅜" x 3 ½"	†2	0
24306	205	Stud, Slotted Hd.	4	4
24308	206	Pin, Cross	4	4
24321	52	Seal, Oil (Opt.)	1	1
24739	180A	Magneto (Opt.)	1	0
24739-A1	...	Magneto & Gear	1	0
24767	55F	Washer, ⅜" I.D. x ¾" O.D.	6	0
24768	55E	Bolt, ⅜"-24 x 4 ½"	6	0
24769	55C	Bushing	6	0
24770	55D	Plug	1	0
24805	73	Insert	4	4
24806	74	Insert	4	4
24878	15A	Screw, ¼" x 1 ½"	2	2
24879	13	Eye, Lifting	1	1
25042	239	Socket	8	8
25117	69	Plug	8	8
25127	68	Pin	4	4
A25127	...	Pin Assem. (A75, 80)	4	4
A25141-A2	...	Cable Assembly	1	0
25142	177	Clip	8	0
25164	12A	Washer, .28" I.D. x .5" O.D. x 125"	2	2
25256	69B	Pin, .9215" O.D.	4	4
25256-A1	69A	Pin Assembly	4	4
25276	75A	Guide	4	4
25361	34	Stud, ⅜" x 2 ½"	2	2
25376	102	Gasket	4	4
A35017	...	Gage & Cap (Opt.)	1	1
B35048	...	Cable Assem.	0	1
B35048-A1	...	Cable Assem.	0	1
35153	152	Gear	0	1
A35158-A1	...	Rod Assem. (A50)	4	4
A35158-A2	57	Rod Assem. (A50)	4	4
A35159-A1	...	Rod Assem. (A75, 80)	4	4
A35159-A2	58	Rod Assem. (A75, 80)	4	4
A35160-A1	56A	Rod Assem. (A65)	4	4
A35160-A2	58A	Rod Assem. (A65)	4	4
35551	65	Ring	8	8
35595	67	Ring	8	8
35597	66	Ring	4	4
35670-A1	...	Set, Ring	1	1
35741	67	Ring	4	4
35832	323	Jet	†4	†4
35885	214	Carburetor	1	1
35897	63	Bearing	8	8
A35917	208	Support Assembly	1	1
A35919	...	Gage & Cap (Opt.)	1	1
35923	207	Gasket	1	1
35956	55G	Plate	1	0
36067	...	Gear	1	0
36128	5	Bearing	2	2
36129	6	Bearing	2	2
36151-B	228	Clamp, 1 ½" Hose	16	16
36151-C	247	Clamp, 1 ½" Hose	8	8
40237	7	Bearing	2	2
40237-A1	...	Set, Bearing	1	1
40522	202	Intake Assembly	1	1
40577	...	Piston (A75)	4	4
40577	...	Piston Assembly	4	4
A40577	...	Filter	1	1
40599	204	Piston (A65)	4	4
40731	64A	Piston Assem. (A65)	4	4
40731-A1	63A	Cover	4	4
40762	92	Intake Assem. (Opt.)	1	0
A40793	...	Carburetor (Opt.)	1	1
40796	...	Housing Assembly	1	1
A50256	...	...	1	1

Part No.	Ref. No.	Name	Per Eng.	
			-8	-9
A50331	...	Sump Assem. (Opt.)	1	1
A50331-A1	...	Sump Assem. (Opt.)	1	1
50350-A1	...	Magneto & Gear (Opt.)	1	0
A50398	...	Magneto & Gear (Opt.)	1	0
50406	...	Magneto (Opt.)	1	0
A50495	...	Housing Assem. (Opt.)	1	0
500278	181	Gasket	2	2
500398	55	Plug	1	1
500400	56	Key, .235" x 375" x 2 ¼"	1	1
530019	52A	Seal, Oil	1	0
530134	...	Plate (A65)	1	1
530143	...	Magneto & Gear (Opt.)	1	0
530156	128	Seal, Oil	1	1
530162	95	Gasket	4	4
530163	241	Flange	4	4
530196-A1	54	Crankshaft Assem.	1	1
530199-A1	55B	Crankshaft Assem. Opt.	1	0
AN340-10	286	Nut, #10-24, Hex.	†3	†3
AN392-11	256	Pin, ⅜" Dia. x ½"	1	1
AN500-A416-8	94	Lg., Dr. Flat Head Screw, ¼"-20 x ¼"	24	24
AN501-A10-5	211	File, Dr. Head	2	2
AN502-10-8	260	Screw, #10-32 x ⅜", File, Dr. Head	6	6
AN805-2	224A	Nut, #10-32, Union	1	1
AN842-10	53	Elbow, ½" N.P.T., ¾" I. D. Hose	1	1
AN900-10	138	Gasket	3	3
AN900-14	114	Gasket	1	1
AN900-22	121	Gasket	1	0
AN900-28	136	Gasket	1	1
AN936-A10	284	Lockwasher, #10 Shakeproof	†5	†5
AN936-A416	93	Lockwasher, ¼" Shakeproof	24	24
AN960-516L	20A	Washer, .328" I.D. x .562" O.D.	3	3
AN4022-1	224	Jet-Primer	1	1

FUEL INJECTOR EQUIPMENT

Part No.	Ref. No.	Name	Per Eng.	
			-8	-9
A-9-2	264	Washer	2	2
A-9-3	263	Seat	2	2
A-9-7	273	Washer	1	1
A-10-1	266	Gasket	1	1
A-10-2	267	Gasket	1	1
A-10-3	265	Gasket	2	2
A-11-1	268	Screw	4	4
A-12-1	274	Gland nut	1	1
A-13-1	262	Spring	2	2
A-15-1	269	Screw	8	8
A-15-2	275	Screw — Fillister head	1	1
A-15-3	276	Screw — Fillister head	1	1
A-22-1	270	Lockwasher	8	8
A-29-1	271	Circlip	1	1
A-31-2	301	Cover	1	1
A-33-1	272	Packing	1	1
A-37-A-1	303	Strainer Assembly	1	1
A-103	277	Shaft Assembly	1	1
A-105	305	Clamp and Screw Assem.	1	1
A-105-1	306	Nut	1	1
A-302	...	Rod Assembly	1	1
A-1005	302	Intake Manifold Assem.	1	1
A-1006	304	Gasket	1	1
A-1007	307	Bowl	1	1
A-1011	294	Seat	1	1
		Shaft Assembly	1	1

NOTES:

†These parts used with No. 6759-A1 Crankcase Assembly only.

††These parts used with Fuel Injector only.

†††These parts used with Oil Collier only.

Opt. indicates optional parts and accessories.

ILLUSTRATED PARTS LIST — A50, A65, A75 AND A80 ENGINES

Section 16

OVERSIZE AND UNDERSIZE PARTS

Part No.	Name	Amount of Oversize or Undersize	Part No.	Name	Amount of Oversize or Undersize
2002-03	Insert	.003" O.S. on O.D.	21480-03	Stud	.003" O.S. on P.D.
2002-06	Insert	.006" O.S. on O.D.	21480-06	Stud	.006" O.S. on P.D.
2002-09	Insert	.009" O.S. on O.D.	21480-09	Stud	.009" O.S. on P.D.
2018-03	Stud	.003" O.S. on P.D.	22004-03	Stud	.003" O.S. on P.D.
2018-06	Stud	.006" O.S. on P.D.	22004-06	Stud	.006" O.S. on P.D.
2018-09	Stud	.009" O.S. on P.D.	22004-09	Stud	.009" O.S. on P.D.
2389-03	Stud	.003" O.S. on P.D.	22006-03	Stud	.003" O.S. on P.D.
2389-06	Stud	.006" O.S. on P.D.	22006-06	Stud	.006" O.S. on P.D.
2389-09	Stud	.009" O.S. on P.D.	22006-09	Stud	.009" O.S. on P.D.
2390-03	Stud	.003" O.S. on P.D.	22172-03	Stud	.003" O.S. on P.D.
2390-06	Stud	.006" O.S. on P.D.	22172-06	Stud	.006" O.S. on P.D.
2390-09	Stud	.009" O.S. on P.D.	22172-09	Stud	.009" O.S. on P.D.
2465-03	Stud	.003" O.S. on P.D.	A22205-05	Set-Piston Ring	.005" O.S. on O.D.
2465-06	Stud	.006" O.S. on P.D.	A22205-015	Set-Piston Ring	.015" O.S. on O.D.
2465-09	Stud	.009" O.S. on P.D.	B22205-05	Set-Piston Ring	.005" O.S. on O.D.
2985-03	Stud	.003" O.S. on P.D.	B22205-015	Set-Piston Ring	.015" O.S. on O.D.
2985-06	Stud	.006" O.S. on P.D.	22423-03	Stud	.003" O.S. on P.D.
2985-09	Stud	.009" O.S. on P.D.	22423-06	Stud	.006" O.S. on P.D.
4544-015	Piston	.015" O.S. on O.D.	22423-09	Stud	.009" O.S. on P.D.
4701-015	Piston	.015" O.S. on O.D.	23297-03	Stud	.003" O.S. on P.D.
20001-03	Stud	.003" O.S. on P.D.	23297-06	Stud	.006" O.S. on P.D.
20001-06	Stud	.006" O.S. on P.D.	23297-09	Stud	.009" O.S. on P.D.
20001-09	Stud	.009" O.S. on P.D.	24805-02	Insert	.002" O.S. on O.D.
20020-03	Stud	.003" O.S. on P.D.	24805-010	Insert	.010" O.S. on O.D.
20020-06	Stud	.006" O.S. on P.D.	24805-020	Insert	.020" O.S. on O.D.
20020-09	Stud	.009" O.S. on P.D.	24805-030	Insert	.030" O.S. on O.D.
20096-03	Stud	.003" O.S. on P.D.	24806-02	Insert	.002" O.S. on O.D.
20096-06	Stud	.006" O.S. on P.D.	24806-010	Insert	.010" O.S. on O.D.
20096-09	Stud	.009" O.S. on P.D.	24806-020	Insert	.020" O.S. on O.D.
21053-03	Stud	.003" O.S. on P.D.	24806-030	Insert	.030" O.S. on O.D.
21053-06	Stud	.006" O.S. on P.D.	25127-05	Pin-Piston	.005" O.S. on O.D.
21053-09	Stud	.009" O.S. on P.D.	25256-05	Pin-Piston	.005" O.S. on O.D.
21054-03	Stud	.003" O.S. on P.D.	23401-03	Stud	.003" O.S. on P.D.
21054-06	Stud	.006" O.S. on P.D.	23401-06	Stud	.006" O.S. on P.D.
21054-09	Stud	.009" O.S. on P.D.	23401-09	Stud	.009" O.S. on P.D.
21055-03	Stud	.003" O.S. on P.D.	25361-03	Stud	.003" O.S. on P.D.
21055-06	Stud	.006" O.S. on P.D.	25361-06	Stud	.006" O.S. on P.D.
21055-09	Stud	.009" O.S. on P.D.	25361-09	Stud	.009" O.S. on P.D.
21075-03	Stud	.003" O.S. on P.D.	35551-05	Ring-Piston	.005" O.S. on O.D.
21075-06	Stud	.006" O.S. on P.D.	35551-015	Ring-Piston	.015" O.S. on O.D.
21075-09	Stud	.009" O.S. on P.D.	35595-05	Ring-Piston	.005" O.S. on O.D.
21167-03	Stud	.003" O.S. on P.D.	35595-015	Ring-Piston	.015" O.S. on O.D.
21167-06	Stud	.006" O.S. on P.D.	35597-05	Ring-Piston	.005" O.S. on O.D.
21167-09	Stud	.009" O.S. on P.D.	35597-015	Ring-Piston	.015" O.S. on O.D.
21393-03	Stud	.003" O.S. on P.D.	35670-05	Set-Ring	.005" O.S. on O.D.
21393-06	Stud	.006" O.S. on P.D.	35670-015	Set-Ring	.015" O.S. on O.D.
21393-09	Stud	.009" O.S. on P.D.	35741-05	Ring-Piston	.005" O.S. on O.D.
21419-05	Guide	.005" O.S. on O.D.	35741-015	Ring-Piston	.015" O.S. on O.D.
21419-010	Guide	.010" O.S. on O.D.	35897-U10	Bearing	.010" U.S. on I.D.
21419-020	Guide	.020" O.S. on O.D.	36128-U10	Bearing	.010" U.S. on I.D.
21449-03	Stud	.003" O.S. on P.D.	36129-U10	Bearing	.010" U.S. on I.D.
21449-06	Stud	.006" O.S. on P.D.	40237-U10	Bearing	.010" U.S. on I.D.
21449-09	Stud	.009" O.S. on P.D.	40237-A1-U10	Set-Bearing	.010" U.S. on I.D.
21463-03	Stud	.003" O.S. on P.D.	40577-015	Piston	.015" O.S. on O.D.
21463-06	Stud	.006" O.S. on P.D.	40731-015	Piston	.015" O.S. on O.D.
21463-09	Stud	.009" O.S. on P.D.			

NOTES:

Symbols used in this list are defined as follows:

I.D. — Inside Diameter

O.D. — Outside Diameter

O.S. — Oversize

U.S. — Undersize

P.D. — Pitch Diameter (of threads)