

Figure 31. Priming System

SECTION 7
SERVICE KIT SECTION
SEAL AND GASKET SET
O-235 SERIES

Part No.	Part Name	Qty.
61499-1	SEAL AND GASKET SET	1
STD-111	GASKET	1
STD-208	SEAL, Oil	1
STD-294	GASKET, Annular	2
STD-1045	GASKET, Annular	2
8313	GASKET, Vac. pump	2
60096	GASKET, Fuel pump	1
60592	GASKET, Carb.	1
60820	GASKET, Oil suction tube flange	1
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-14260	SEAL, Tach. shaft	1
61173	GASKET, Oil press. hsg.	1
61183	GASKET, Accy. adapter	1
61523	CONTAINER	1
61531	GASKET, Hydraulic valve	1
62224	GASKET, Mag. adapter	3
LW-18661	SEAL, Shroud tube	16
65321	GASKET, Exhaust flange	4
68315	GASKET, Accy. dr. adapter	1
LW-13353	GASKET, Oil sump	1
71973	GASKET, Intake flange	4
72053	GASKET, Gov. drive	1
72059	GASKET	1
72078	LOCKPLATE, Cam gear	2
72091	RING, Oil seal	8
73383	LOCKPLATE	1
73817	LOCKPLATE, Camshaft idler gear shaft	2
73818	GASKET, Accy. hsg.	1
74065	RING, Oil level gage seal	1
74068	RING, Oil level gage seal	1
75906	GASKET, Rocker box cover	4
76940	SEAL, Crankshaft oil	1
LW-13792	SEAL, Crankshaft oil	1
LW-12681	GASKET, Mag.	2
LW-12795	GASKET	1
LW-11632	RING, Oil seal	6
62869	RING, Cyl. base	4
LW-12040	TOP OVERHAUL GASKET SET	1
62869	SEAL, Cylinder base	4
LW-18661	SEAL, Shroud tube	16
71973	GASKET, Intake, 2 bolt flange	4
75906	GASKET, Rocker box cover	4

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-C1, -C1B, -C2A, -C2C, -H2C

Part No.	Part Name	Qty.
75805	CYLINDER, PISTON AND RING ASSY.	1
LW-16701	CYLINDER AND HEAD ASSY.	1
66429	VALVE, Intake	1
66531	VALVE, Exhaust	1
LW-13320	SEAT, Valve spring, inner spring	2
61252	SEAT, Valve spring, outer spring	2
LW-11800	SPRING, Valve, outer	2
LW-11795	SPRING, Valve, auxiliary	2
LW-10077	SEAT, Valve spring	2
60009	KEY, Valve	4
60831	ROCKER ASSY., Valve	2
LW-13790	SHAFT, Valve rocker	1
1102	PLUG, .125 pipe x .375 long (socket)	1
75906	GASKET, Rocker box cover	1
61247	COVER, Rocker box	1
STD-1925	SCREW, .250-20 x .63 long fill. head, self-locking	6
73807	SCREW, Valve adjusting	2
STD-587	NUT, .5625-18 x .16 thick	2
71195	BOX, Set-up	1
73851	PISTON	1
60827	PIN, Piston	1
60828	PLUG, Piston pin	2
LW-13672	RING, Piston, top compression	1
LW-13658	RING, Piston, scraper	1
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
LW-12892	BUTTON, Thrust	2
STD-1215	BOLT	2
73806	PUSH ROD ASSY.	2
LW-16867	RING, Oil regulator	1

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-F2A, -F2B, -J2A

Part No.	Part Name	Qty.
LW-12591	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
LW-13790	SHAFT, Valve rocker	1
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
LW-13445	PIN, Piston	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulator	1
LW-10077	SEAT, Valve spring	2
LW-11621	PISTON	1
LW-11625	PLUG, Piston pin	2
LW-11633	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-11901	VALVE, Intake	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-K2A, -K2B, -K2C, -L2A, -L2C, -M1

Part No.	Part Name	Qty.
LW-13969	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
LW-13790	SHAFT, Valve rocker	1
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner spring	2
61252	SEAT, Valve spring, outer spring	2
62869	RING, Oil seal, cylinder base	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulating	1
LW-10077	SEAT, Valve spring	2
LW-11625	PLUG, Piston pin	2
LW-11633	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve auxiliary	2
LW-11800	SPRING, Valve outer	2
LW-11901	VALVE, Intake	1
LW-13445	PIN, Piston	1
LW-13623	PISTON	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-C1, -C1B, -C2A, -C2C, -H2C

Part No.	Part Name	Qty.
LW-14126	CYLINDER, PISTON AND RING ASSEMBLY	1
60009	KEY, Valve	4
60037	VALVE, Intake	1
60072	RING, Piston, scraper	1
LW-13790	SHAFT, Valve rocker	1
60827	PIN, Piston	1
60828	PLUG, Piston pin	2
60831	ROCKER ASSY., Valve	2
LW-16867	RING, Piston, oil regulating	1
61247	COVER, Rocker box	1
61251	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
62869	RING, Oil seal, cylinder base	1
LW-18661	SEAL, Shroud tube	4
68196	RING, Piston, compression	2
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
73851	PISTON	1
75906	GASKET, Rocker box cover	1
73806	PUSH ROD ASSY.	2
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
LW-10077	SEAT, Valve spring	2
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-12986	CYLINDER ASSY., Plain	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-N2C

Part No.	Part Name	Qty.
LW-18660	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
LW-13790	SHAFT, Valve rocker	1
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
LW-13445	PIN, Piston	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulator	1
LW-10077	SEAT, Valve spring	2
LW-13623	PISTON	1
LW-11625	PLUG, Piston pin	2
LW-18290	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-11901	VALVE, Intake	1
LW-12892	THRUST BUTTON	2

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LW-12697	Crankshaft Assy.	1-5	LW-14792	Gage	1-3
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45530	Ring	1-9	61520	Bearing	1-7
45688	Flange	1-5	61531	Gasket	1-1
60009	Key	3-7	61533	Bearing	1-7
60037	Valve	3-7	61544	Plunger	1-9
60072	Ring	3-1	61547	Carburetor	6-5
60096	Gasket	2-9	61554	Cover	1-1
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60592	Gasket	6-5	61665	Gear	4-1
60733	Shim	5-3	61665	Gear	4-3
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INTRODUCTION

NOTE

This Parts Catalog supersedes PC-102 dated August, 1973 and PC-202 dated March, 1978.

This illustrated parts catalog contains a complete parts listing for the Avco Lycoming O-235 series aircraft engines. For use in expediting of parts when ordering, the serial number and model designation are stamped on the engine nameplate located on the oil sump.

The Group Assembly Section lists major assemblies and sub-assemblies in general sequence of engine build-up. The "Quantity Per Assembly" column indicates the number required at that particular location only and is not to be construed to mean quantity for the complete engine. When the symbol "un" is listed, it means to use quantity as necessary.

The Service Kit Section provides listings for seal and gasket sets and cylinder, piston and ring assemblies for use in ordering parts as necessary during overhaul.

The Numerical Index is provided for convenience in finding parts when only the part number is known.

In the Oversize and Undersize Parts section, procurable oversize and undersize parts are listed preceding the main group assembly parts list.

Parts coverage of Vendor Accessories used on Avco Lycoming engines may be found in the appropriate Vendor's Parts Catalog. A list of the publications appear in the latest edition of Avco Lycoming Service Letter No. L114.

SERVICE BULLETINS, INSTRUCTIONS AND LETTERS

Although the information contained in this parts catalog is up-to-date at time of publication, users are urged to keep abreast of later information through all Avco Lycoming distributors or from the factory by subscription. Consult the latest edition of Service Letter No. L114 for subscription information.

NOTE

The illustrations shown in this publication are typical of the subject matter they portray; in no instance are they to be interpreted as examples of any specific engines, equipment or part thereof.

Any reference in this document to a suppliers/parts manufacturers' product, by name, trademark, part number or other description is solely for the purposes of identification and does not indicate or infer that Avco Lycoming accepts responsibility for quality control and/or airworthiness of parts which do not pass through the Avco Lycoming quality control system.

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O-235 SERIES

Oversize and Undersize Parts Listing

PART NO.	DESCRIPTION	OVERSIZE					UNDERSIZE		
		P05	P10	P15	P20	P30	M03	M06	M10
61681	GUIDE, Valve intake	X	X		X	X			
LW-11626	GUIDE, Valve	X	X		X	X			
66796	INSERT, Spark plug		X						
69796	DOWEL, Crankshaft bearing	X							
60814	BUSHING, Propeller flange	X	X	X	X				
73757	BUSHING, Propeller flange	X	X	X	X				
61258	SEAT, Intake valve (Alum Bronze)		X		X	X			
LW-11900	SEAT, Intake valve (steel) Allison		X		X	X			
LW-16800	SEAT, Intake valve (solid)		X		X	X			
60337	SEAT, Exhaust valve (solid)		X		X	X			
LW-16699	SEAT, Exhaust valve, Allison		X		X	X			
68763	BEARING, Crankshaft,						X	X	X
LW-13884	BEARING, Crankshaft, front						X	X	X
61533	BEARING, Crankshaft, right front						X	X	X
61520	BEARING, Crankshaft, left front						X	X	X
69373	BEARING, Connector rod						X	X	X

Studs available in P03, P07 and P12 oversize.

NOTE

When ordering oversize or undersize parts, be sure to specify the required oversize or undersize dimension along with the proper part number. For example: to order bearing LW-13521 in .003 undersize, order part number LW-13521-M3. Oversize code is "P" while undersize code letter is "M". These letters are then followed by the numbers designating the size in thousandths of an inch.

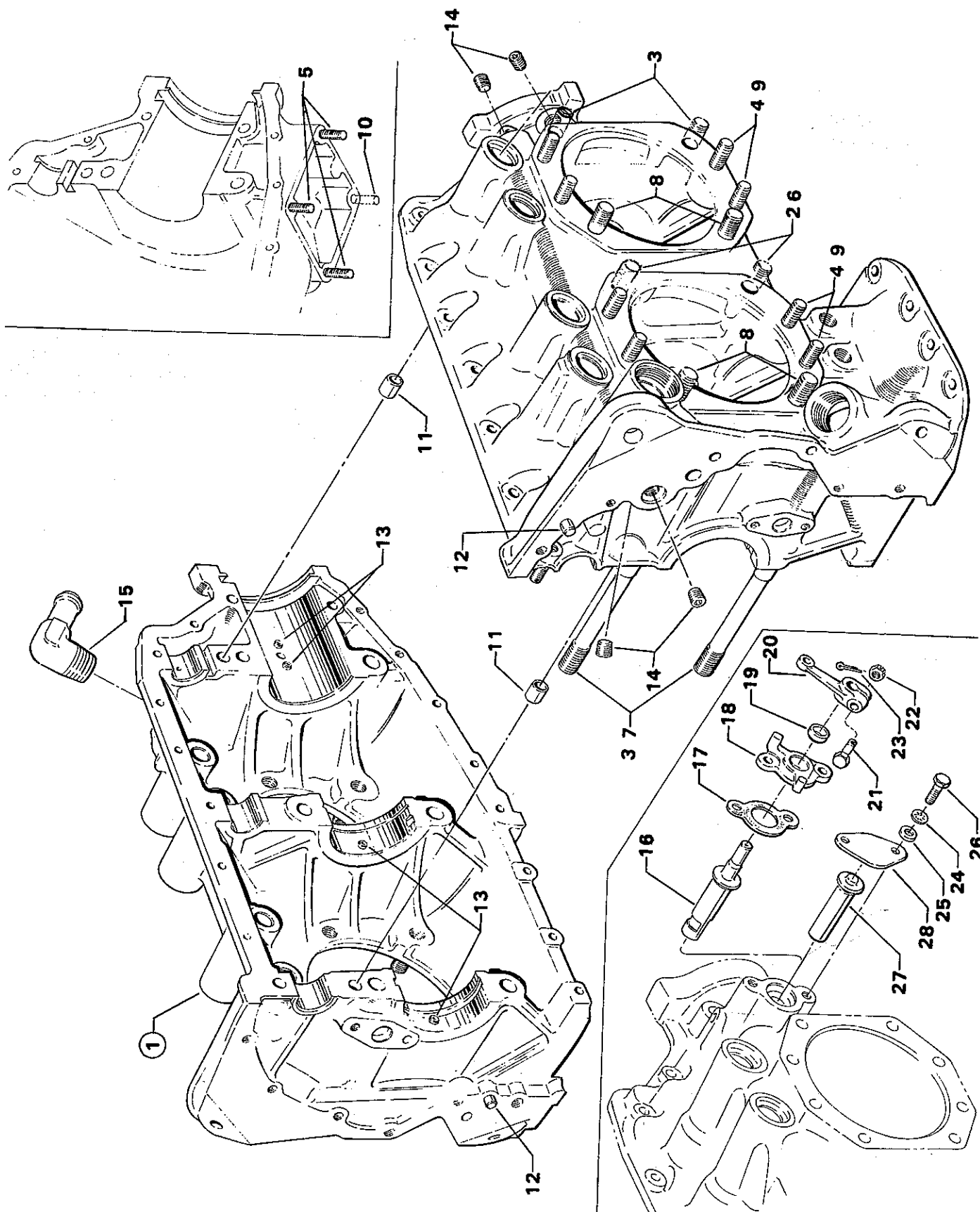


Figure 1. Crankcase Assembly

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
OIL LEVEL GAGE ASSEMBLIES

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