

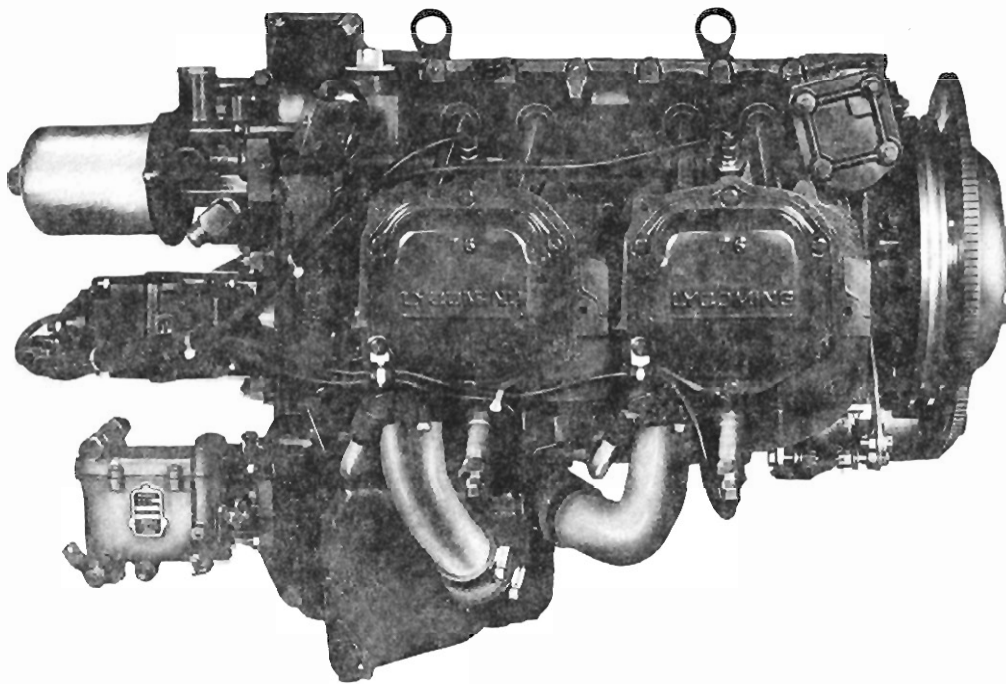
TEXTRON Lycoming AIRCRAFT ENGINES

76 SERIES

O-360, LO-360 SERIES

PARTS CATALOG

PC-123



JULY 1978

REPRINTED MAY, 1988

TEXTRON Lycoming

Textron Lycoming/Subsidiary of Textron Inc.

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TO: PARTS MANAGER

THIS PARTS CATALOG PC-123 INCLUDING REVISION PC-123-1
DATED DEC., 1980 HAS BEEN REPRINTED IN ITS ENTIRETY
AND DATED MAY, 1988.

INTRODUCTION

The Avco Lycoming 76 series O-360 and LO-360 model engines depicted herein employ a modern unitized design crankcase. This incorporates all accessory drives in the crankcase eliminating a separate accessory housing and providing a compact, lightweight power unit.

The parts catalog is constructed in the same familiar format as previous catalogs, the only difference being that the accessory drives section is now integrated with the Crankcase Group in Section 1.

An oversize and undersize parts list shows available parts and their sizes.

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

Complete coverage of Vendor Accessories used on Avco Lycoming engines may be secured by referring to the publications listed in footnotes in this catalog on the page where the accessories are installed. A complete list of Vendor publications may also be found by referral to Service Letter No. L114.

NOTE

The illustrations, pictures and drawings 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 engine, equipment or part thereof.

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 Avco Lycoming Service Bulletins, Instructions and Service Letters which are available through all Avco Lycoming Distributors or from the factory by subscription. Consult the latest edition of Service Letter No. L114 for subscription information.

0-360, LO-360 - 76 SERIES

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**O-360, LO-360 - 76 SERIES
AIRCRAFT ENGINES**

OVERSIZE AND UNDERSIZE PARTS LISTING

PART NO.	DESCRIPTION	OVERSIZE				UNDERSIZE		
		P5	P10	P20	P30	M03	M06	M10
66145	DOWEL, Oil pump body		X	X				
66796	INSERT, Spark plug 18-1.5 mm		X					
69796	DOWEL, Crankshaft bearing		X					
72057	SEAT, Intake valve	X	X	X	X			
72058	SEAT, Exhaust valve	X	X	X	X			
72060	BUSHING, Propeller flange	X	X	X				
72061	BUSHING, Propeller flange	X	X	X				
72062	BUSHING, Propeller flange	X	X	X				
72074	BUSHING, Propeller flange	X	X	X				
76943	GUIDE, Valve intake		X	X	X			
77160	GUIDE, Valve exhaust		X	X	X			
LW-13209	BEARING, Connecting rod					X	X	X
LW-15328	BEARING, Crankshaft					X	X	X
LW-15329	BEARING, Crankshaft					X	X	X

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKCASE ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360		LO-360											
				E1A6D		E1A6D											
1	LW-16818	CRANKCASE ASSEMBLY		1													
	LW-16806	CRANKCASE ASSEMBLY				1											
2	LW-15045	BUSHING, Magneto drive	1														
3	LW-15276	STUD, 1/2-20 x 10-23/32 long	2														
4	LW-15277	STUD, 1/2-13 x 8-23/32 long	4														
5	50-15	STUD, 1/2-20 x 1-7/8 long	8														
6	38-13	STUD, 3/8-16 x 1-5/8 long	16														
7	STD-557	DOWEL, 25/64 ID x 1/2 OD x 11/16 long, hollow	3														
8	LW-15376	TUBE, Oil transfer				1											
9	69796	DOWEL, Crankshaft bearing	2														
10	25C-10	STUD, 1/4-20 x 1-1/4 long	3														
11	31C-12	STUD, 5/16-18 x 1-1/2 long	8														
12	31C-13	STUD, 5/16-18 x 1-5/8 long	1														
13	1102	PLUG, 1/8-27 NPT, Allen hd.	5														
14	STD-1339	PLUG, 1/16-27 NPT, Allen hd.	1														
15	25C-9	STUD, 1/4-20 x 1-1/8 long	2														
16	LW-15377	TUBE, Oil transfer				1											
17	31C-16	STUD, 5/16-18 x 2.00 long	4														
18	STD-1901	DRIVE STUD, No. 4 x 3/16 long	4														

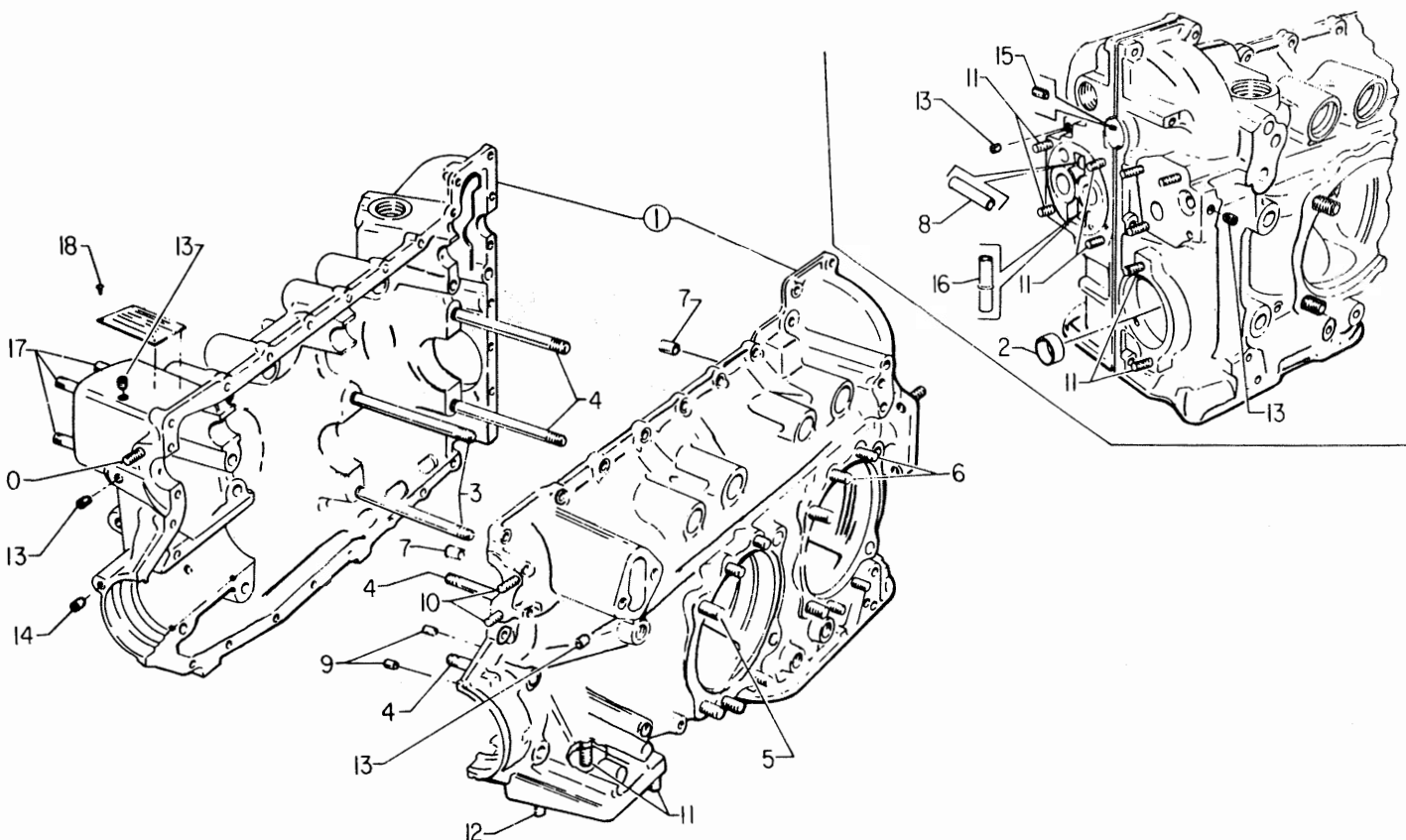


Figure 1

LYCOMING 76 SERIES O-360 LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY	
				O-360	LO-360
				EA	EA
1	LW-15328	BEARING, Crankshaft	4		
2	LW-15329	BEARING, Crankshaft - Front	2		
3	LW-13792	SEAL, Crankshaft oil	1		
4	72075	RING, Oil seal, 7/16 ID x 3/32 sect.	7		
5	72091	RING, Oil seal, 3/8 ID x 7/64 sect.	2		
6	1028-B	BALL, 11/16 dia.	1		
7	61084	SPRING, Oil pressure relief valve	1		
8	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32 annular	1		
9	77808	VALVE ASSY., Oil pressure relief - adj.	1		
10	LW-15617	BRACKET, Engine mounting - upper	2		
11	LW-15618	BRACKET, Engine mounting - lower	2		
12	STD-2191	WASHER, 3/8 ID x 13/16 OD x 3/32 thick	8		
13	STD-678	WASHER, 3/8 internal lock	8		
14	LW-38-2.75	BOLT, 3/8-16 x 2-3/4 long	8		
15	72220	GASKET, Oil level gage	1		
16	LW-14785	GAGE ASSY., Oil level		1	
	LW-14786	GAGE ASSY., Oil level			1

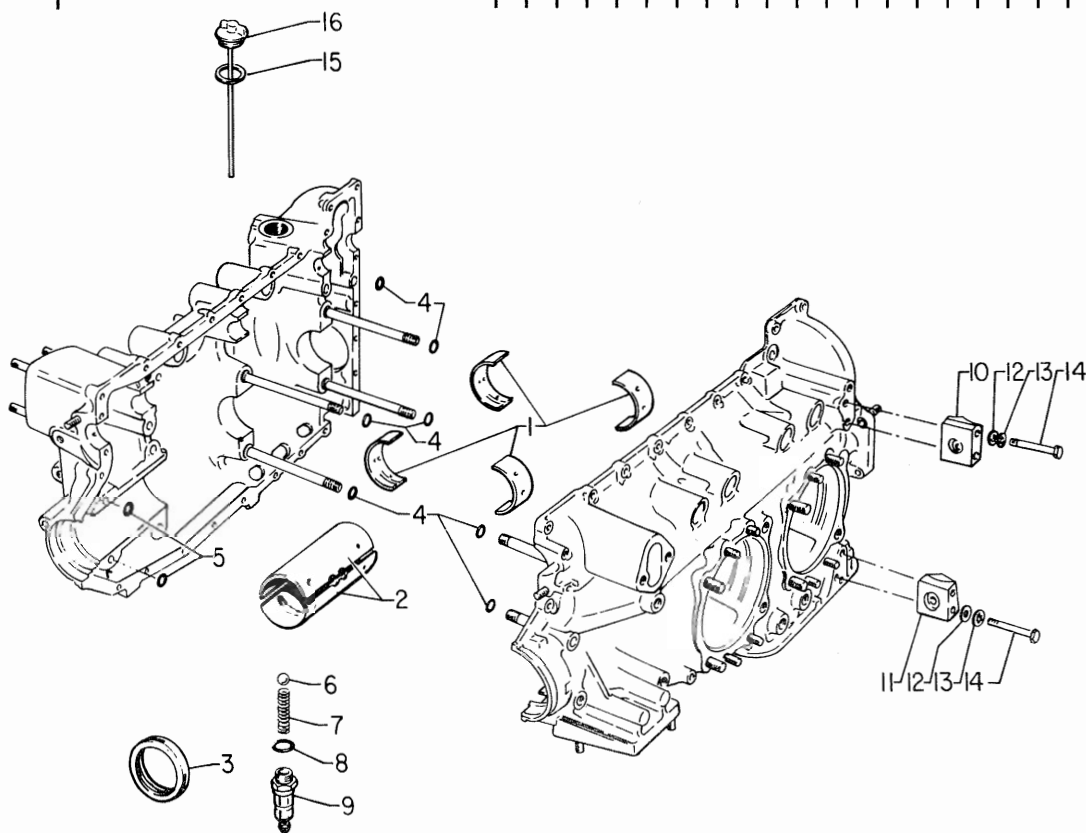


Figure 2. Crankcase Related Parts

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKSHAFT AND STARTER RING GEAR SUPPORT

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EA	AD	EA	AD	EA	AD	EA	AD	EA	AD	EA	AD	EA	AD
3																	
1	LW-15836	CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY			1												
	LW-16018	CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY										1					
2	LW-15835	CRANKSHAFT ASSEMBLY			1												
	LW-16017	CRANKSHAFT ASSEMBLY										1					
3	STD-1211	PLUG, 2.00 dia. expansion	1														
4	LW-15834	CRANKSHAFT, Machining sub-assembly			1												
	LW-16016	CRANKSHAFT, Machining sub-assembly										1					
5	STD-2078	DOWEL, 3/8 OD x 1/2 long	1														
6	61510	PLUG, 1-3/4 OD	1														
7	72060	BUSHING, Propeller flange - indexing			1												
8	72061	BUSHING, Propeller flange - short			1							2					
9	72062	BUSHING, Propeller flange - long			4							3					
10	72074	BUSHING, Propeller flange - indexing - long										1					
11	73810	BUSHING, Crankshaft dynamic counterweight	4														
12	72801	COUNTERWEIGHT ASSEMBLY	2														
13	71903	BUSHING, Dynamic counterweight	8														
14	LW-10977	ROLLER, Dynamic counterweight, 8th order	2														
15	LW-10945	ROLLER, Dynamic counterweight, 6.3 order	2														
16	LW-14820	RING, Internal retaining	8														
17	71907	WASHER, Dynamic counterweight	8														
18	LW-14708	GEAR, Crankshaft	1														
19	LW-10332	LOCKPLATE	1														
20	AN8-10A	BOLT, 1/2-20 x 1-3/32 long	1														
21	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch			1												
	LW-11513	SUPPORT ASSY., Starter ring gear, 12/14 pitch										1					
22	72566	GEAR, Starter ring, 12/14 pitch			1												
	LW-10551	GEAR, Starter ring, 12/14 pitch										1					

LYCOMING **76** SERIES O-360 PARTS CATALOG

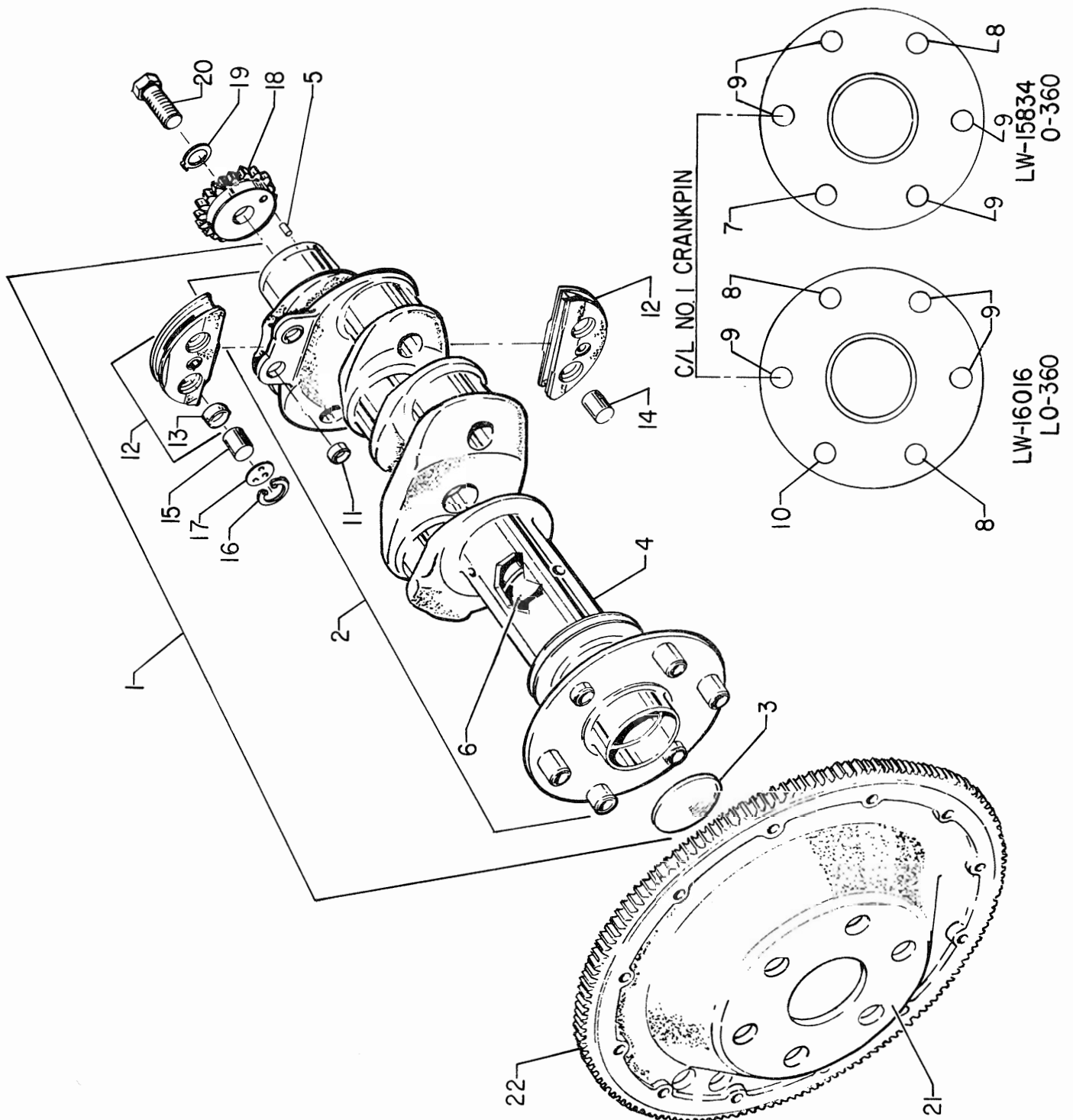


Figure 3. Crankshaft and Starter Ring Gear Support

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CAMSHAFT AND TACHOMETER DRIVE ASSEMBLY

FIG. REF. 4	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360 LO-360															
				E1A6D		E1A6D													
1	LW-16509	CAMSHAFT, Gear & Tach. Shaft Assy.		1															
	LW-16515	CAMSHAFT, Gear & Tach. Shaft Assy.				1													
2	LW-16508	CAMSHAFT ASSEMBLY		1															
	LW-16514	CAMSHAFT ASSEMBLY				1													
3	STD-1066	DOWEL, Stepped, 5/16 & 1/4 dia. x 13/32	1																
4	LW-15032	SHAFT ASSY., Tachometer	1																
5	STD-2169	ROLL PIN, 3/16 dia. x 1-1/8 long	1																
6	LW-15031	GEAR, Camshaft	1																
7	72078	LOCKPLATE, 5/16 bolt x 1-21/64 spring	2																
8	STD-703	BOLT, 5/16-24 x 37/64 long	4																
9	LW-16573	GASKET, Tachometer adapter	1																
10	LW-16575	TACHOMETER ADAPTER & SEAL ASSY.	1																
11	LW-14260	SEAL, Tachometer drive oil	1																
12	STD-8	WASHER, 1/4 plain	2																
13	STD-160	WASHER, 1/4 lock	2																
14	STD-1411	NUT, 1/4-20	2																
15	LW-15379	BAFFLE, Breather	1																

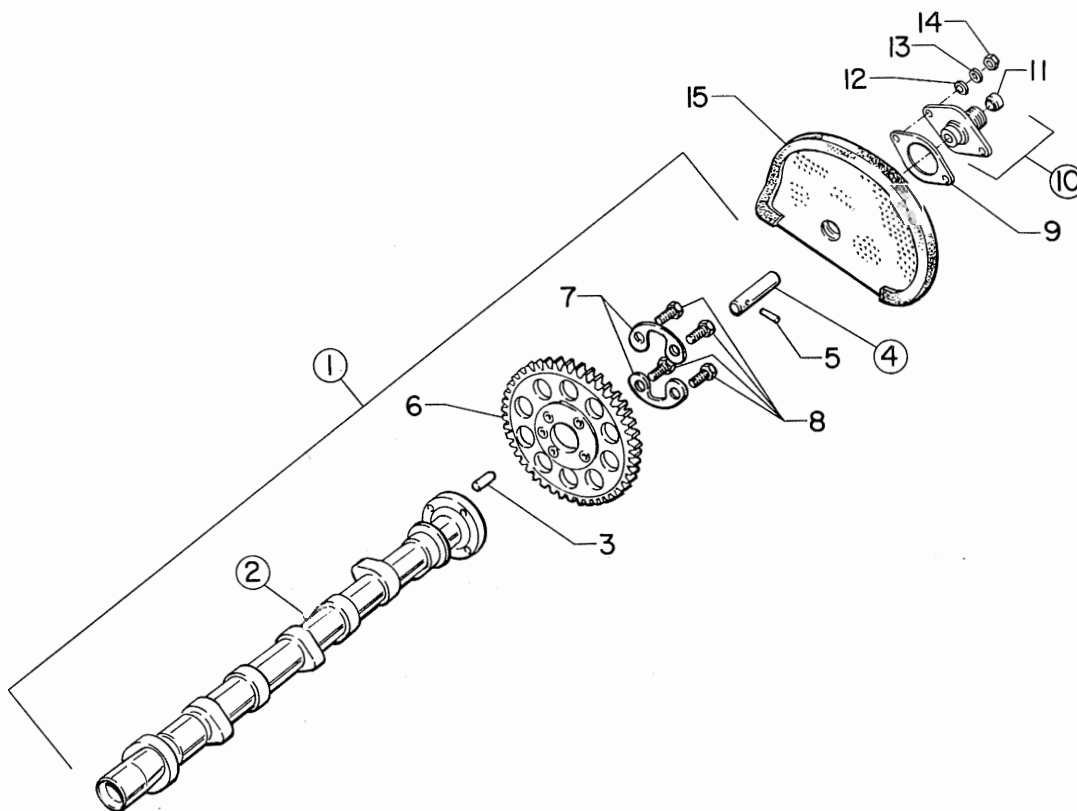


Figure 4.

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

PROPELLER GOVERNOR DRIVE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EX	AB	CD	EX	AB	CD	EX	AB	CD	EX	AB	CD	EX	AB
5																	
1	LW-15274	GEAR, Propeller governor drive	1														
2	STD-96	KEY, Woodruff 3/4 dia. x 3/16 thick	1														
3	LW-15140	SHAFT, Gear propeller governor drive	1														
4	LW-15141	WASHER, Thrust propeller governor drive	1														
5	LW-15142	COVER, Propeller governor drive	1														
6	LW-15109	"O" RING, 1-39/64 ID x 7/64 dia.	1														
		sect.	1														
7	STD-8	WASHER, 1/4 plain	3														
8	STD-160	WASHER, 1/4 lock	3														
9	STD-1411	NUT, 1/4-20 plain	3														
10	72053	GASKET, Governor	1														
11	72378	COVER, Governor drive	1														
12	STD-35	WASHER, 5/16 plain	un														
13	STD-475	WASHER, 5/16 lock	4														
14	STD-1410	NUT, 5/16-18 plain	4														

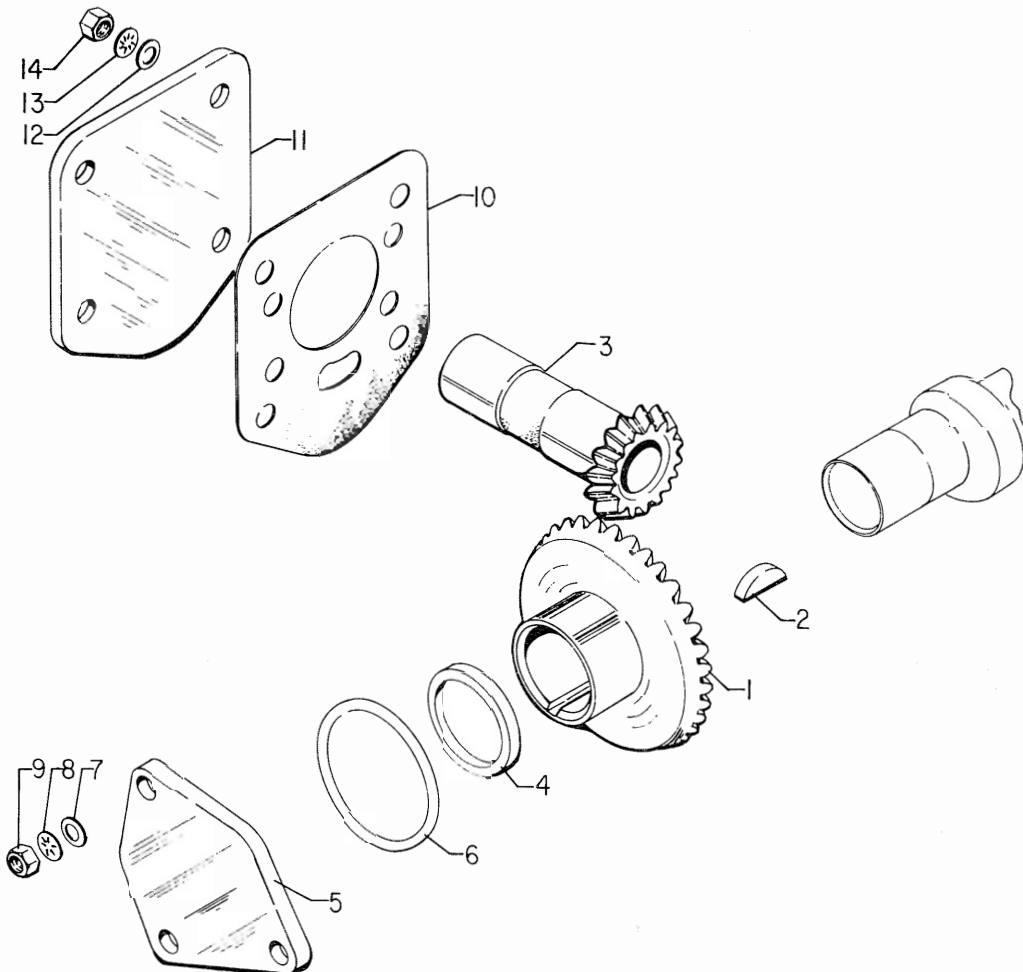


Figure 5. Propeller Governor Drive

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY	
				0-360	LO-360
				ENABD	ENABD
6					
1	ANG-36A	BOLT, 3/8-24 x 3-13/16 long, hex hd.	2		
2	STD-33	WASHER, 3/8 plain	4		
3	STD-678	WASHER, 3/8 internal lock	2		
4	STD-596	NUT, 3/8-24 plain	2		
5	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex hd.	16		
6	STD-2103	BOLT, 1/4-20 x 3-3/8 long, hex hd.	4		
7	STD-8	WASHER, 1/4 plain	20		
8	STD-160	WASHER, 1/4 internal lock	20		
9	STD-395	BOLT, 1/4-20 x 1-1/4 long, hex hd. dr. hd.	3		
10	STD-8	WASHER, 1/4 plain	3		
11	LW-15063	EYE, Lifting	2		
12	STD-2047	BOLT, 1/4-20 x 1-3/8 long, hex hd.	2		
13	STD-160	WASHER, 1/4 internal lock	2		
14	STD-8	WASHER, 1/4 plain	2		
15	STD-160	WASHER, 1/4 internal lock	2		
16	STD-1646	BOLT, 1/4-20 x 2.00 long, hex hd.	2		

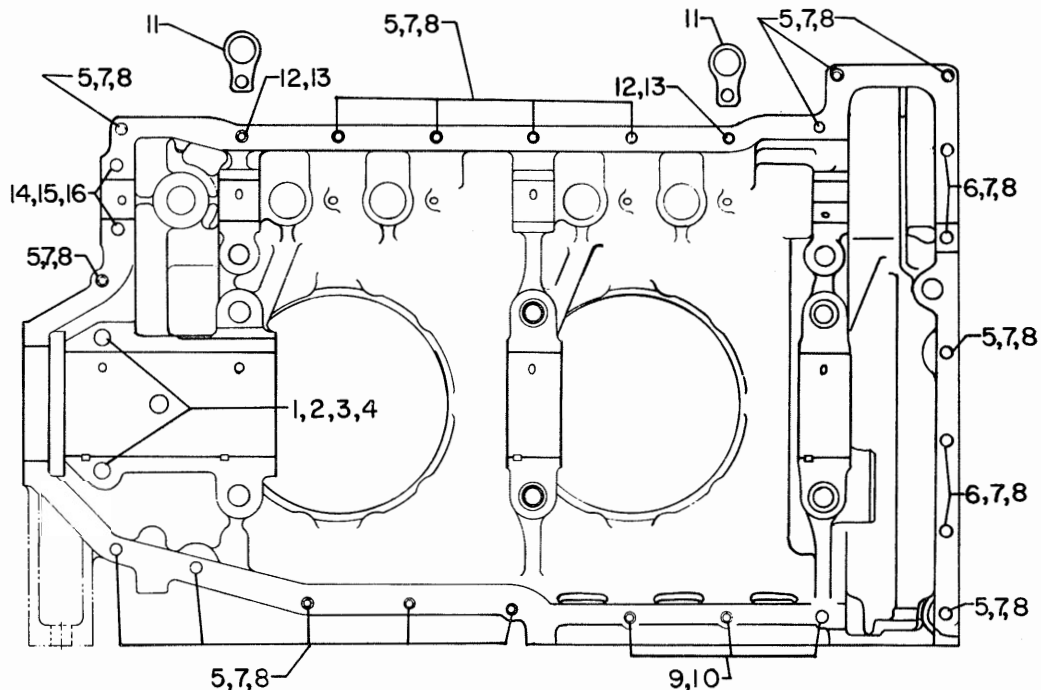


Figure 6. Crankcase Attaching Bolts

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

OIL PUMP AND VACUUM PUMP DRIVE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EA	AB	CD	EA	AB	CD	EA	AB	CD	EA	AB	CD	EA	AB
7																	
1	LW-15345	SHAFT, Oil and Vacuum pump drive	1														
2	STD-2057	KEY, 5/8 dia. x 5/32 woodruff	1														
3	LW-15263	GEAR, Oil pump drive	1														
4	STD-1063	NUT, 9/16-18 x 9/32 high	1														
5	LW-15262	LOCKPLATE, Oil pump gear	1														
6	LW-15999	IMPELLER ASSY., Oil pump driven	1														
7	LW-15998	IMPELLER, Oil pump driving	1														
8	LW-15070	SEAL, "o-ring" 3-1/2 ID x 7/64 sect.	1														
9	LW-15931	BODY ASSY., Oil pump and Vacuum pump drive								1							
	LW-15976	BODY ASSY., Oil pump and Vacuum pump drive										1					
10	25C-12	STUD, 1/4-20 x 1/2 long	4														
11	STD-557	DOWEL, 3/8 ID x 1/2 OD x 11/16	1														
12	66145	DOWEL, 1/4 dia. x 1/2 long	1														
13	STD-783	PLUG, 1/4-18 NPT										1					
14	STD-208	OIL SEAL, 7/8 ID x 1-1/2 OD x 5/16	1														
15	STD-35	WASHER, 5/16 plain	4														
16	STD-475	WASHER, 5/16 internal lock	4														
17	STD-1410	NUT, 5/16-18 plain	4														
18	8313	GASKET, Vacuum pump	1														
19	60430	COVER, Vacuum pump	1														
20	STD-8	WASHER, 1/4 plain	4														
21	STD-160	WASHER, 1/4 internal lock	4														
22	STD-1411	NUT, 1/4-20 plain	4														

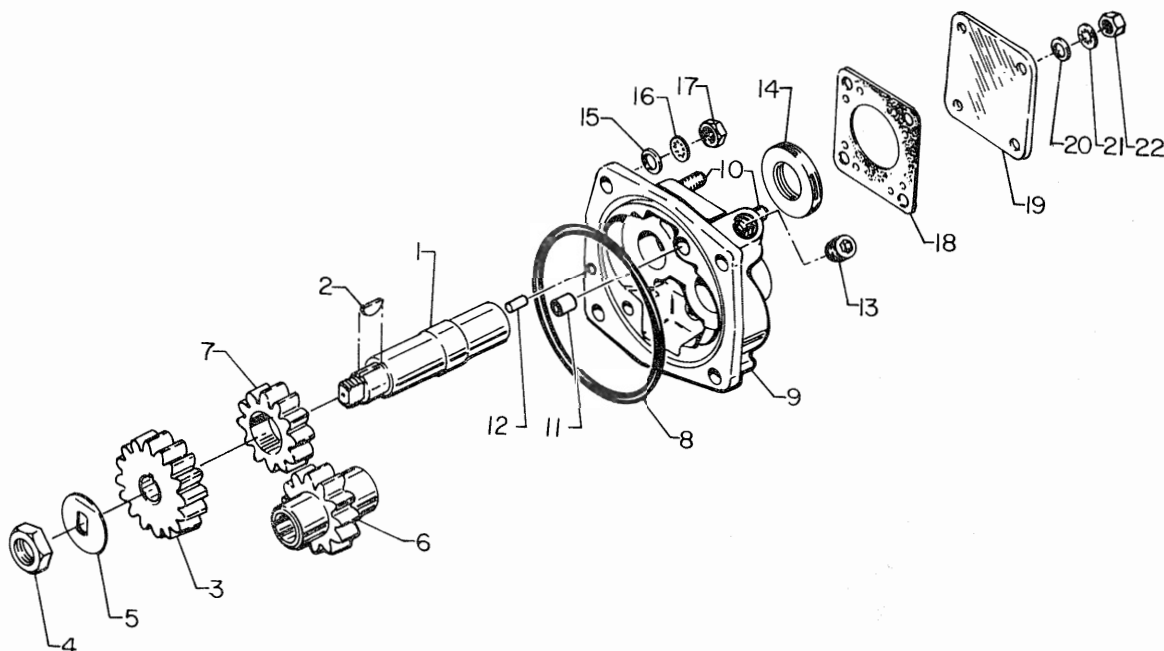


Figure 7. Oil Pump and Vacuum Pump Drive

LYCOMING **76** SERIES O-LO-360 PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

OIL FILTER AND FUEL PUMP

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				ELAGD								ELAGD					
8																	
1	LW-15046	GASKET, Oil filter adapter	1														
2	LW-15047	OIL FILTER ADAPTER ASSY.	1														
3	MS124703	INSERT, Heli-coil 3/4-16 x 1-1/4 long	1														
4	STD-8	WASHER, 1/4 plain	4														
5	STD-160	WASHER, 1/4 internal lock	4														
6	STD-1843	BOLT, 1/4-20 x 3.00 long, hex hd.	1														
7	25C-10	STUD, 1/4-20 x 1-1/4	3														
8	STD-1411	NUT, 1/4-20 plain	3														
9	MS29512-8	SEAL, Oil 21/32 OD x 3/32 sect.	2														
10	LW-10637	ELBOW, 1/2 tube x 3/4-16 thd. 90° adj.	2														
11	LW-13906	FILTER ASSEMBLY, Short	1														
12	LW-13904	KIT, Converter plate oil filter	1														
13	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 ann.	1														
14	75944	VALVE ASSY., Temp. control oil cooler bypass	1														
15	AN840-12D	FITTING, Breather	1														
16	60096	GASKET, Fuel pump	1														
17	LW-15399	FUEL PUMP, Dual diaphragm	1														
18	STD-33	WASHER, 3/8 plain	2														
19	STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket hd., drilled hd.	2														

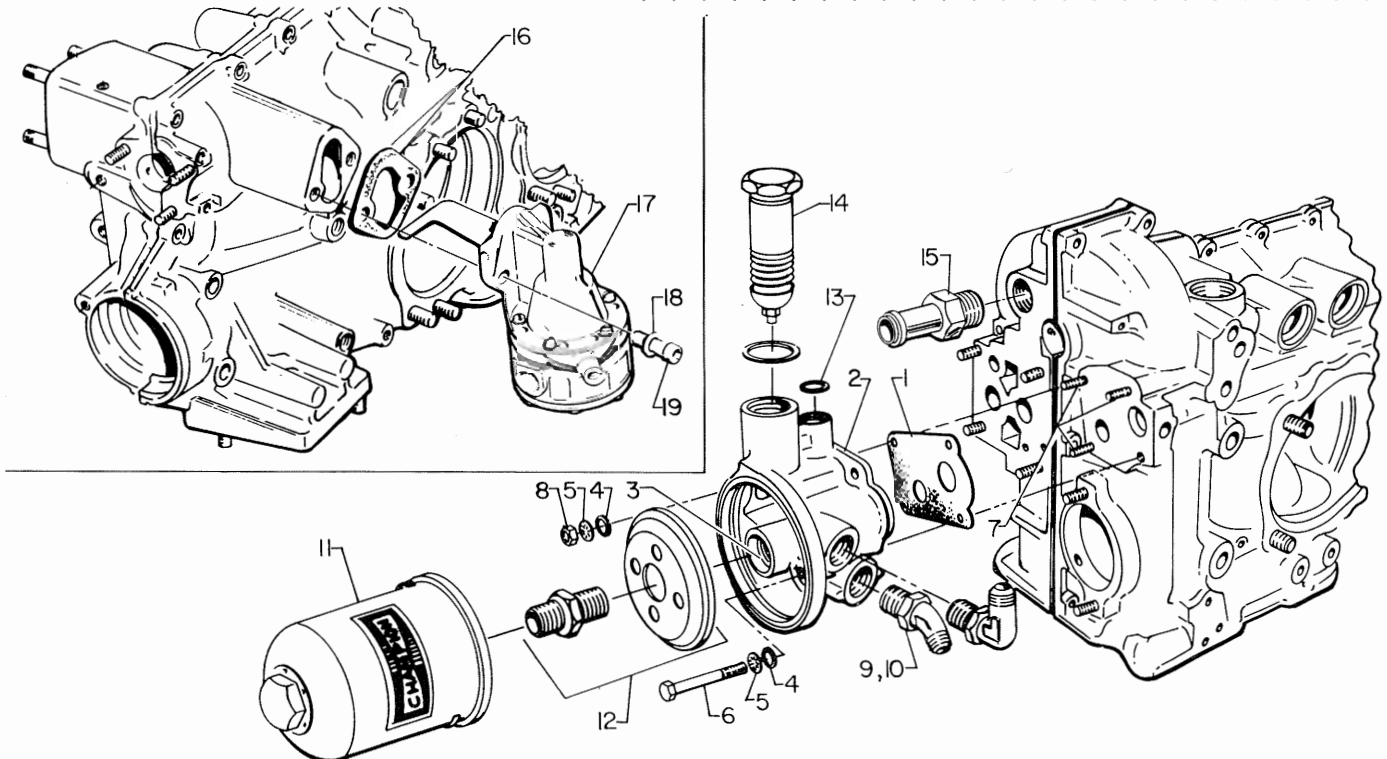


Figure 8. Oil Filter and Fuel Pump

LYCOMING 76 SERIES O-360 PARTS CATALOG

CYLINDER, PISTON AND VALVE TRAIN

CONNECTING ROD, PISTON AND PISTON RINGS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EA	AD	GD	DD	DD	DD	DD	DD	EA	AD	GD	DD	DD	DD
9																	
1	LW-15288	ROD ASSEMBLY, Connecting	4														
2	LW-13923	BUSHING, Connecting rod upper	4														
3	78027	BOLT, Connecting rod	8														
4	LW-12186	NUT, Connecting rod	8														
5	LW-13209	BEARING, Connecting rod	8														
6	LW-15357	PISTON, Comp. ratio 9.0:1	4														
7	LW-14078	PIN, Piston	4														
8	60828	PLUG, Piston pin	8														
9	74241	RING, Piston compression	8														
10	73857	RING, Piston oil regulating	4														

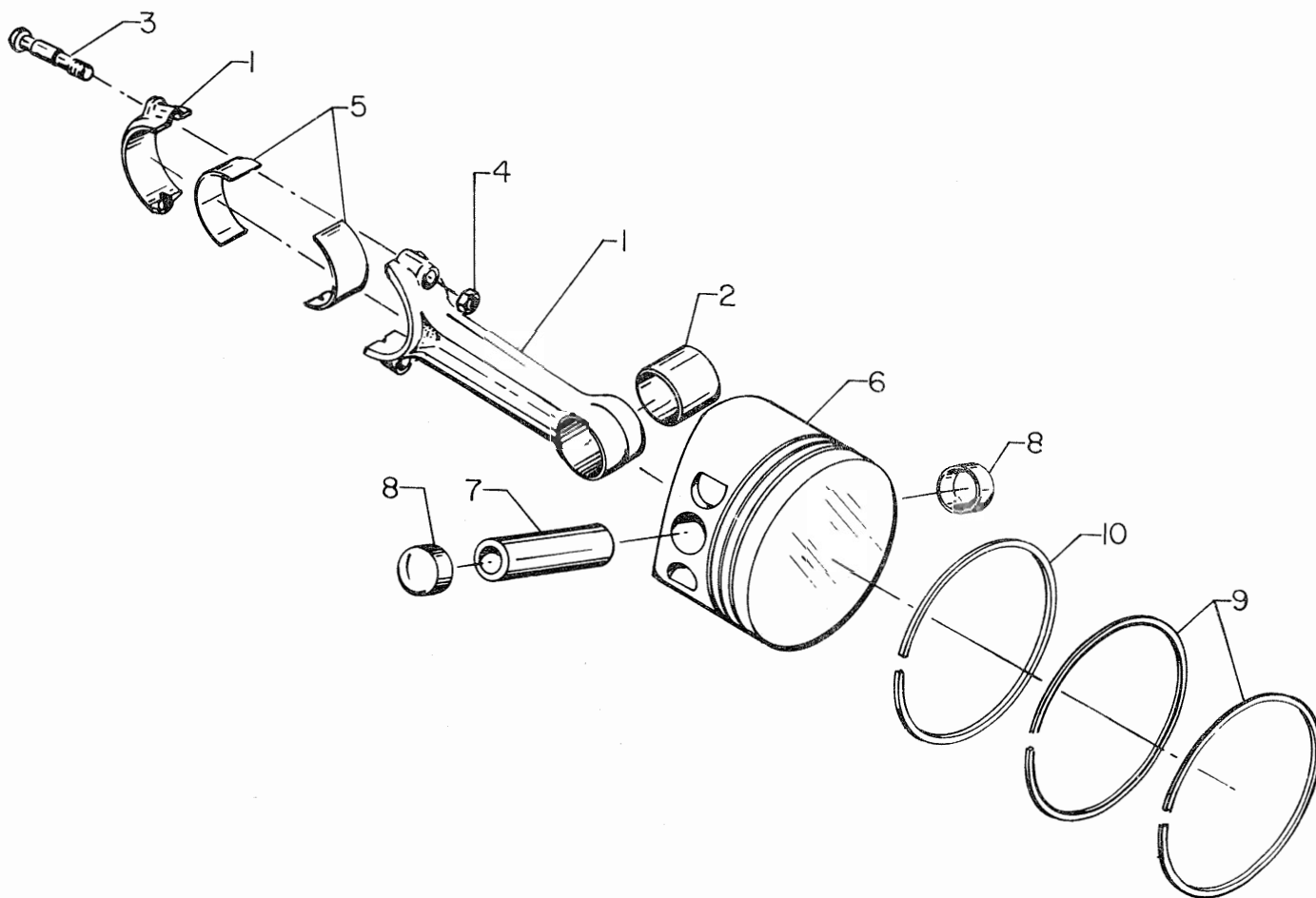


Figure 9. Connecting Rod, Piston and Piston Rings

LYCOMING **76** SERIES O-LO-360 PARTS CATALOG

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY	
				0-360	LO-360
				EXAGD	EXAGD
10					
1	LW-15322	CYLINDER AND HEAD ASSY., Nitrided	4		
2	72057	SEAT, Intake valve	4		
3	72058	SEAT, Exhaust valve	4		
4	76943	GUIDE, Valve intake	4		
5	77160	GUIDE, Valve exhaust	4		
6	66796	INSERT, Spark plug 18-1.5 mm	8		
7	STD-1872	INSERT, 1/8-27 Heli-coil - NPT	8		
8	31C-12	STUD, 5/16-18 x 1-1/2 long	8		
9	25C-9	STUD, 1/4-20 x 1-1/8 long	4		
10	LW-15360	ELBOW, 1/2 flared tube - 45°	4		
11	31-16	STUD, 5/16-18 x 2.00 long	8		
12	1102	PLUG, 1/8-27 NPT	8		

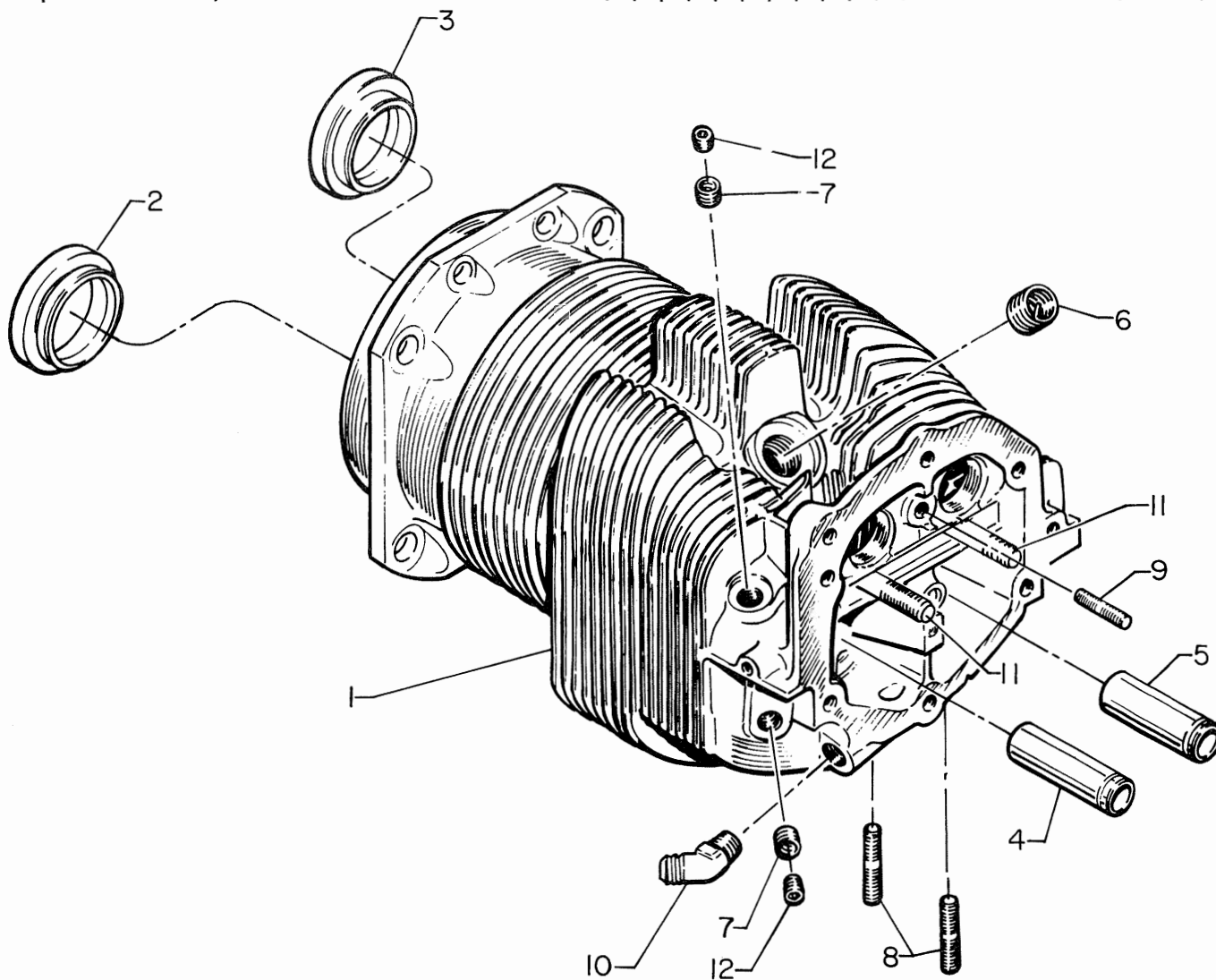


Figure 10. Cylinder Assembly

CYLINDER, PISTON AND VALVE TRAIN
VALVE ASSEMBLY

FIG. REF. 11	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY											
				O-360 LO-360											
				E1A6D											
1	LW-15314	VALVE, Intake	4												
2	74541	VALVE, Exhaust (rotator type)	4												
3	LW-11795	SPRING, Valve inner	8												
4	LW-11800	SPRING, Valve outer	8												
5	65441	SEAT, Valve spring lower - intake	4												
6	LW-13323	SEAT, Valve spring lower - exhaust	4												
7	LW-10077	SEAT, Valve spring upper - intake	4												
8	LW-10076	SEAT, Valve spring upper - exhaust	4												
9	60009	KEY, Valve intake	8												
10	MS13997-3	KEY, Valve exhaust (rotator)	8												
11	LW-15316	CAP, Valve exhaust (rotator)	4												
12	LW-15323	TUBE, Push rod shroud	8												
13	LW-14995	SPRING, Shroud tube	4												
14	LW-12272	LOCKPLATE, Shroud tube	4												
15	STD-1411	NUT, 1/4-20 plain	4												
16	LW-R-0.750-275	SEAL, Shroud tube	8												
17	70310	SEAL, Shroud tube	.8												

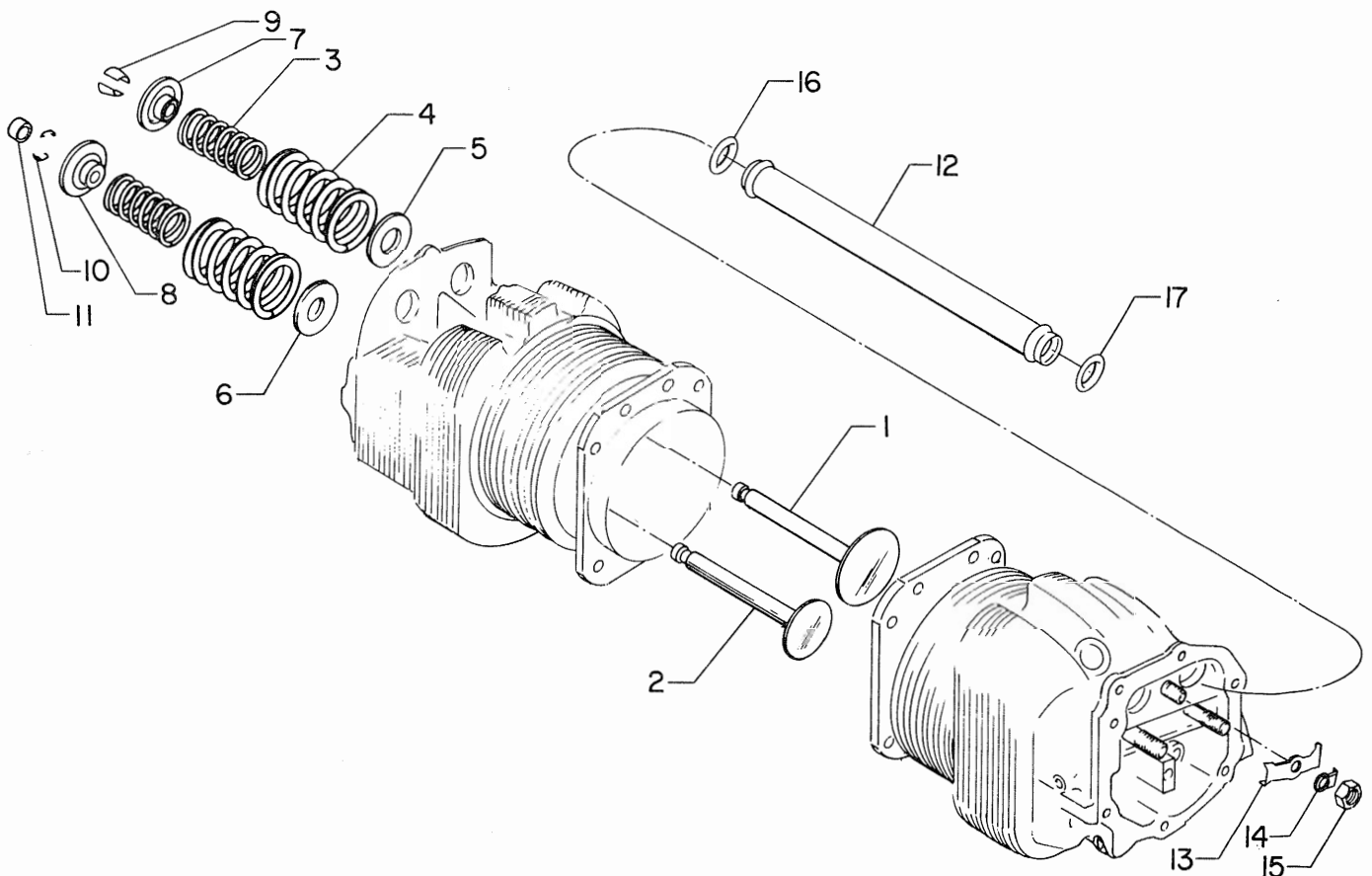


Figure 11.

CYLINDER, PISTON AND VALVE TRAIN
PUSH RODS, ROCKER ARMS AND HYDRAULIC LIFTERS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				E1A6D								E1A6D					
1	LW-15324	ROD ASSEMBLY, Push	8														
2	LW-15407	SEAT, Valve rocker arm fulcrum	8														
3	LW-15014	ARM, Valve rocker	8														
4	LW-15709	WASHER, 5/16 ID x 1/64 thick	un														
5	MS21045-5	NUT, 5/16-24 self-locking	8														
6	75906	GASKET, Rocker box cover	4														
7	LW-15330	COVER, Rocker box	4														
8	STD-1925	SCREW, 1/4-20 x 5/8 pan hd., self-locking	24														
9	71481	RING, Oil seal, 3/32 sect. x 4-27/32 ID	4														
10	383-B	NUT, 3/8-24 plain	16														
11	STD-2090	NUT, 1/2-20 plain	16														
12	LW-16812	LIFTER, Hydraulic	8														

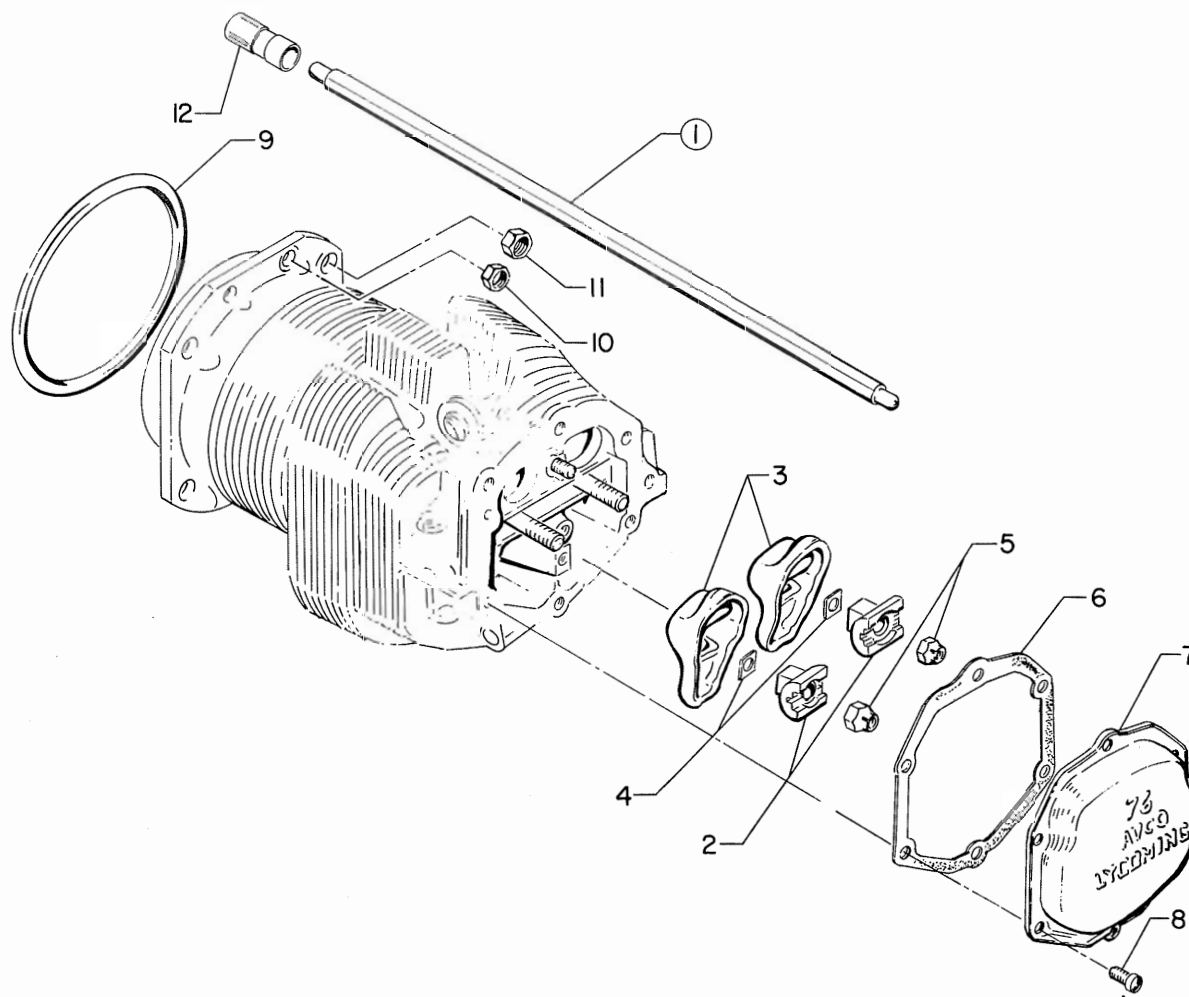


Figure 12

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY	
				O-360	LO-360
				EXAGD	EXAGD
1	LW-15359	NIPPLE, 1/4-18 x 1/2 ID hose	4		
2	STD-2182	HOSE, 1/2 ID x 2-15/32 long	4		
3	STD-2188	CLAMP, 7/8 dia.	8		
4	LW-15361	TUBE ASSEMBLY, Cyl.hd.oil drain, Cyl. No. 1	1		
	LW-15362	TUBE ASSEMBLY, Cyl.hd.oil drain, Cyl. No. 2	1		
	LW-14680	TUBE ASSEMBLY, Cyl.hd.oil drain, Cyl. No. 3 & 4	2		
5	75339	BAFFLE ASSY., Intercylinder	2		
6	71611	RETAINER, Intercylinder baffle	2		
7	71610	HOOK, Intercylinder baffle retainer	2		
8	STD-35	WASHER, 5/16 plain	8		
9	STD-475	WASHER, 5/16 internal lock	8		
10	STD-1410	NUT, 5/16-18 plain	8		

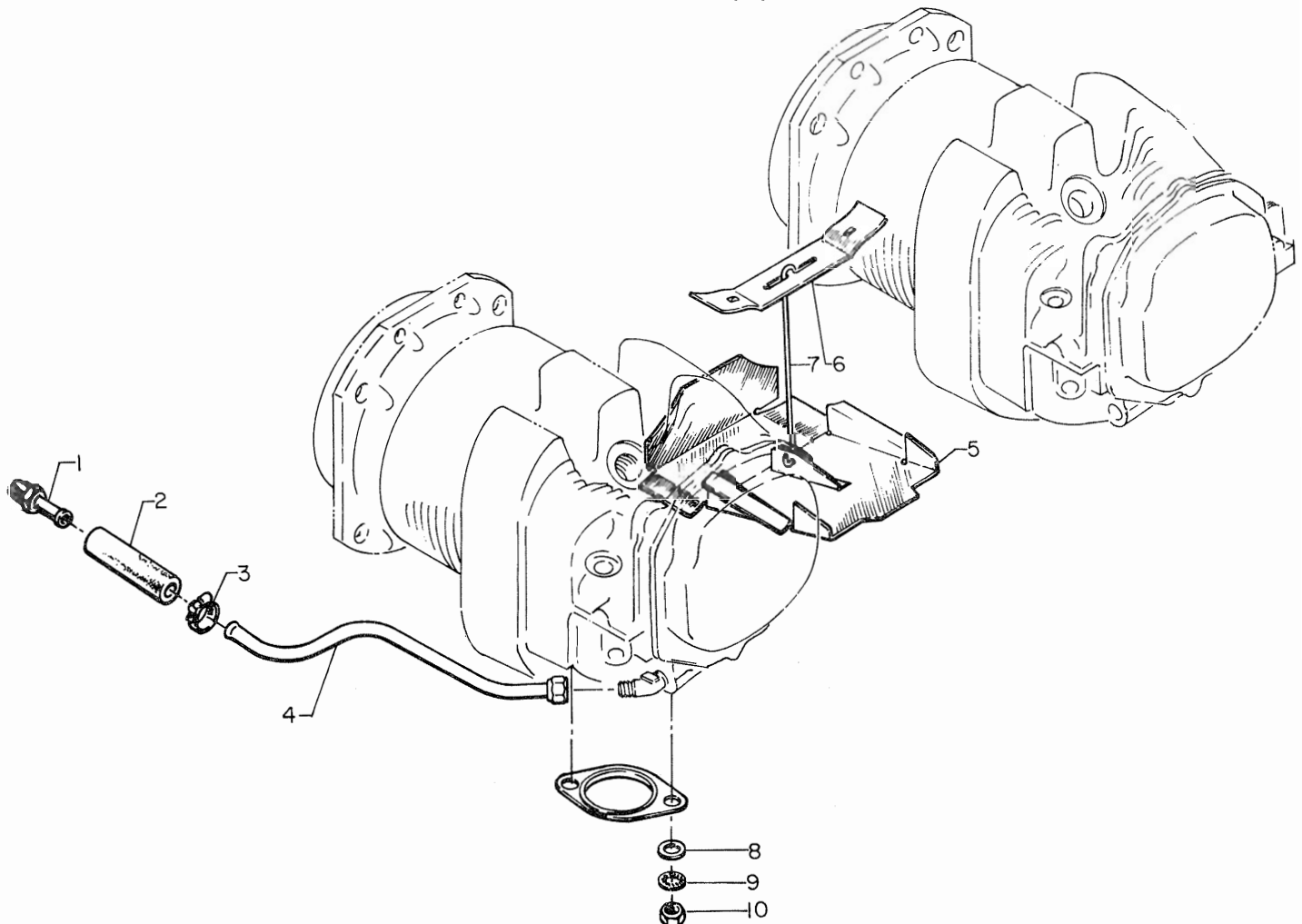


Figure 13. Cylinder Head Drain Tubes and Intercylinder Cooling Baffles

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

IGNITION SYSTEM

MAGNETO, MAGNETO DRIVE AND SPARK PLUGS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EXAGD								EXAGD					
1	LW-15659	GEAR, Magneto	1														
2	LW-15097	"O" RING, 13/16 ID x 5/64 sect.	1														
3	68875	RING, Magneto drive cushion	1														
4	LW-12136	CUSHION, Magneto drive	2														
5	LW-12681	GASKET, Magneto	1														
6	LW-385124-115	MAGNETO IGNITION SYSTEM			1								1				
	LW-385124-121	MAGNETO IGNITION SYSTEM															
7	LW-382555-14	MAGNETO, D4RN-2021 (20° Lag Angle)			1												
	LW-382555-15	MAGNETO, D4LN-2021 (20° Lag Angle)											1				
8	LW-684406-303	HARNESS, Ignition	1														
9	75965	CLAMP, Magneto	2														
10	STD-475	WASHER, 5/16 internal lock	2														
11	STD-1410	NUT, 5/16-18 plain	2														
12	LW-14057	CLIP, 1 wire	2														
13	LW-14060	CLIP, 2 wire	2														
14	76734	ZIP STRAP	13														
15	1182-D4	SPARK PLUG, Champion (RHM-38-E)	8														

See Bendix Service Parts List L-975 for Magneto Parts Breakdown.

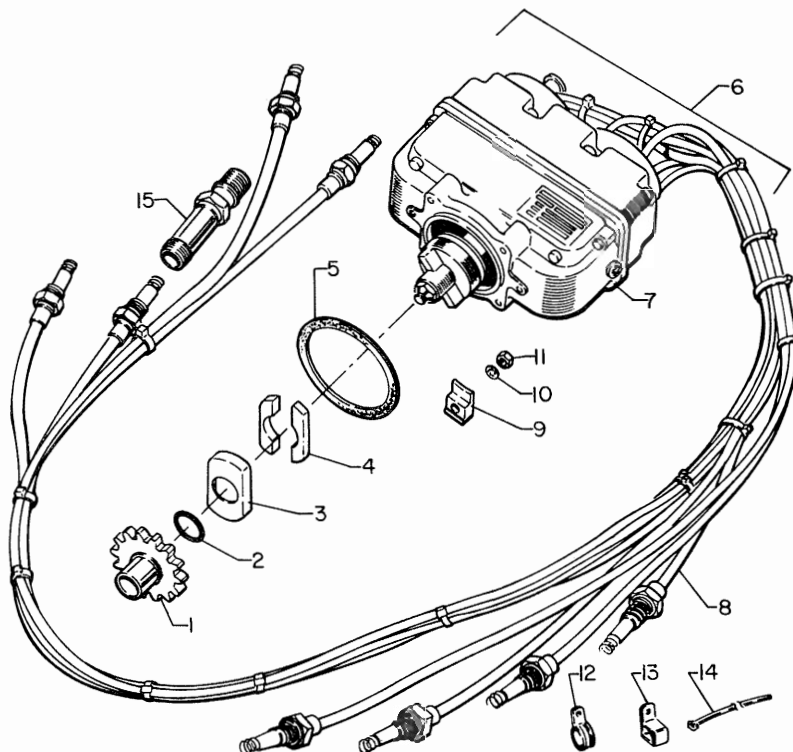


Figure 14. Magneto, Magneto Drive and Spark Plugs

LYCOMING 76 SERIES O-LO-360 PARTS CATALOG

ELECTRICAL SYSTEM

STARTING MOTOR AND ALTERNATOR BRACKET

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EA	AB	CD	EA	AB	CD	EA	AB	CD	EA	AB	CD	EA	AB
1	LW-15571	STARTER, 12v. 3.38:1 Int. red (MZ-4222)								1							
	LW-10556	STARTER, 12v. 3.38:1 Int. red. (MZ-4220)													1		
2	STD-35	WASHER, 5/16 plain	4														
3	STD-475	WASHER, 5/16 internal lock	4														
4	STD-2156	BOLT, 5/16-18 x 1-5/32 long	1														
5	STD-1410	NUT, 5/16-18 plain	3														
6	LW-15267	BRACKET, Alternator	1														
7	STD-1858	BOLT, 5/16-18 x 29/32 long, dr. hd.	3														
8	LW-15266	LINK, Alternator adjusting	1														
9	STD-35	WASHER, 5/16 plain	1														
10	LW-15265	STRUT, Alternator support	1														
11	STD-1817	BOLT, 5/16-18 x 3/4 long, dr. hd.	2														
12	STD-1727	WASHER, plain 3/4 OD x 5/16 ID x 1/8 thick	1														
13	AN6-14	BOLT, 3/8-24 x 1-9/16 long, dr. end	1														
14	AN6-13	BOLT, 3/8-24 x 1-29/64 long, dr. end	1														
15	76534	SHIM, 1-1/8 OD x 13/32 x .005 thick	un														
16	STD-690	WASHER, 13/16 ID x 3/8 ID x 1/16	un														
17	STD-872	NUT, 3/8-24 slotted	2														
18	STD-713	COTTER, pin 3/32 dia. x 3/4 long	2														

See SSP 1471 for Starter Motor Parts Breakdown.

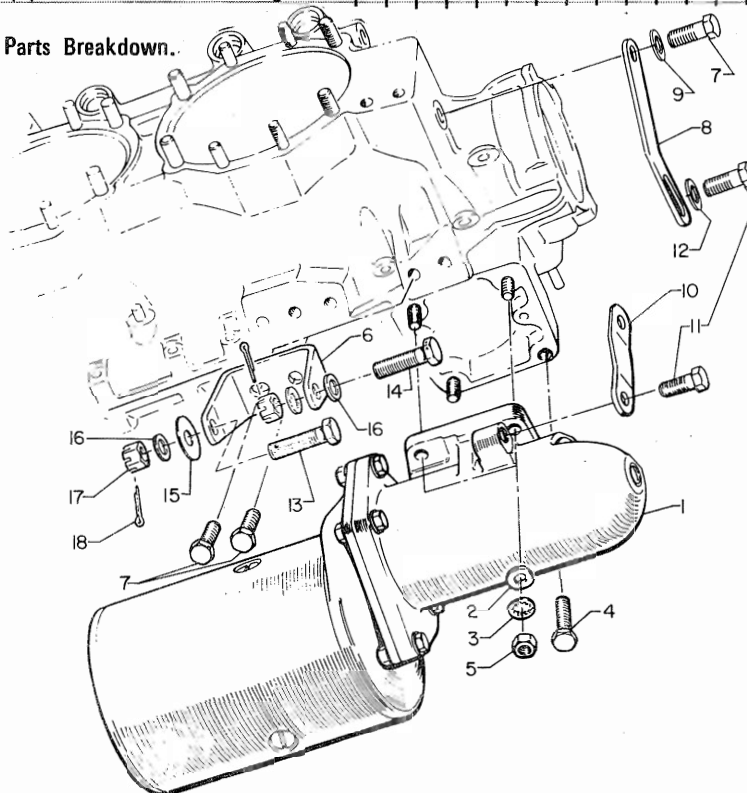


Figure 15. Starting Motor and Alternator Bracket

LYCOMING 76 SERIES O-360 LO-360 PARTS CATALOG

OIL SUMP AND INDUCTION SYSTEM

OIL SUMP ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EVAGD								EVAGD					
1	LW-15071	GASKET, Oil sump	1														
2	LW-14888	SUMP ASSEMBLY, Oil	1														
3	31C-14	STUD, 5/16-18 x 1-3/4	4														
4	STD-8	WASHER, 1/4 plain	14														
5	STD-160	WASHER, 1/4 internal lock	14														
6	STD-1999	BOLT, 1/4-20 x 6.00 long	4														
7	STD-1204	BOLT, 1/4-20 x 15/16 long	7														
8	STD-1975	BOLT, 1/4-20 x 2-9/16 long	1														
9	STD-551	PLUG, 1/2-14 NPT sq. hd. drilled	3														
10	25C-10	STUD, 1/4-20 x 1-1/4 long	2														
11	STD-1411	NUT, 1/4-20 plain	2														
12	STD-405	PLUG, 1/8-27 NPT, Sq. hd. drilled	2														
13	61378	SCREEN, Oil suction	1														
14	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32	1														
15	61358	PLUG, 1-1/4-12 hex head	1														

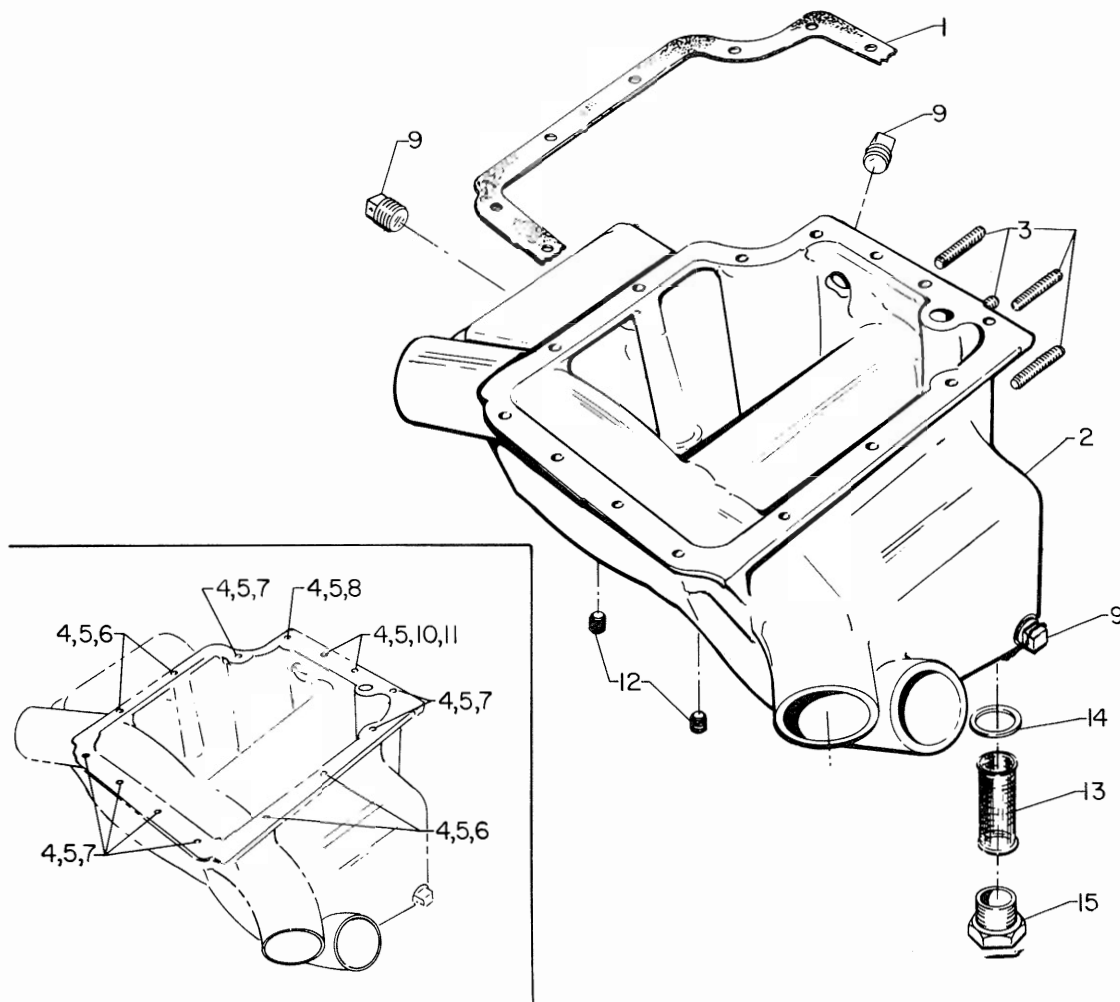


Figure 16. Oil Sump Assembly

LYCOMING 76 SERIES O-360 PARTS CATALOG

OIL SUMP AND INDUCTION SYSTEM

INTAKE PIPES AND CARBURETOR

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360								LO-360					
				EA	GB	DD	EA	GB	DD	EA	GB	DD	EA	GB	DD	EA	GB
1	71712	PIPE, Intake cyls. no. 1 & 2	2														
2	LW-14916	PIPE, Intake cyls. no. 3 & 4	2														
3	LW-14134	HOSE, Intake pipe	4														
4	STD-1530	CLAMP, 1-3/4 ID x 9/16 wide	4														
5	LW-15592-8-28	CLAMP, 1-7/8 - 2-1/4 ID x 9/16 wide	4														
6	71973	GASKET, 2 bolt flange	4														
7	73346	FLANGE, Intake pipe - upper	4														
8	STD-8	WASHER, 1/4 plain	8														
9	STD-160	WASHER, 1/4 internal lock	8														
10	STD-1215	BOLT, 1/4-20 x 1-1/4 long	8														
11	77154	GASKET, Carburetor	1														
12	LW-12097	CARBURETOR, Model HA-6	1														
13	STD-35	WASHER, 5/16 plain	4														
14	STD-1410	NUT, 5/16-18 plain	4														
15	STD-1763	LOCKNUT, 5/16 palnut	4														

See MS 609/631 for Parts Breakdown of Marvel Schebler Carburetors.

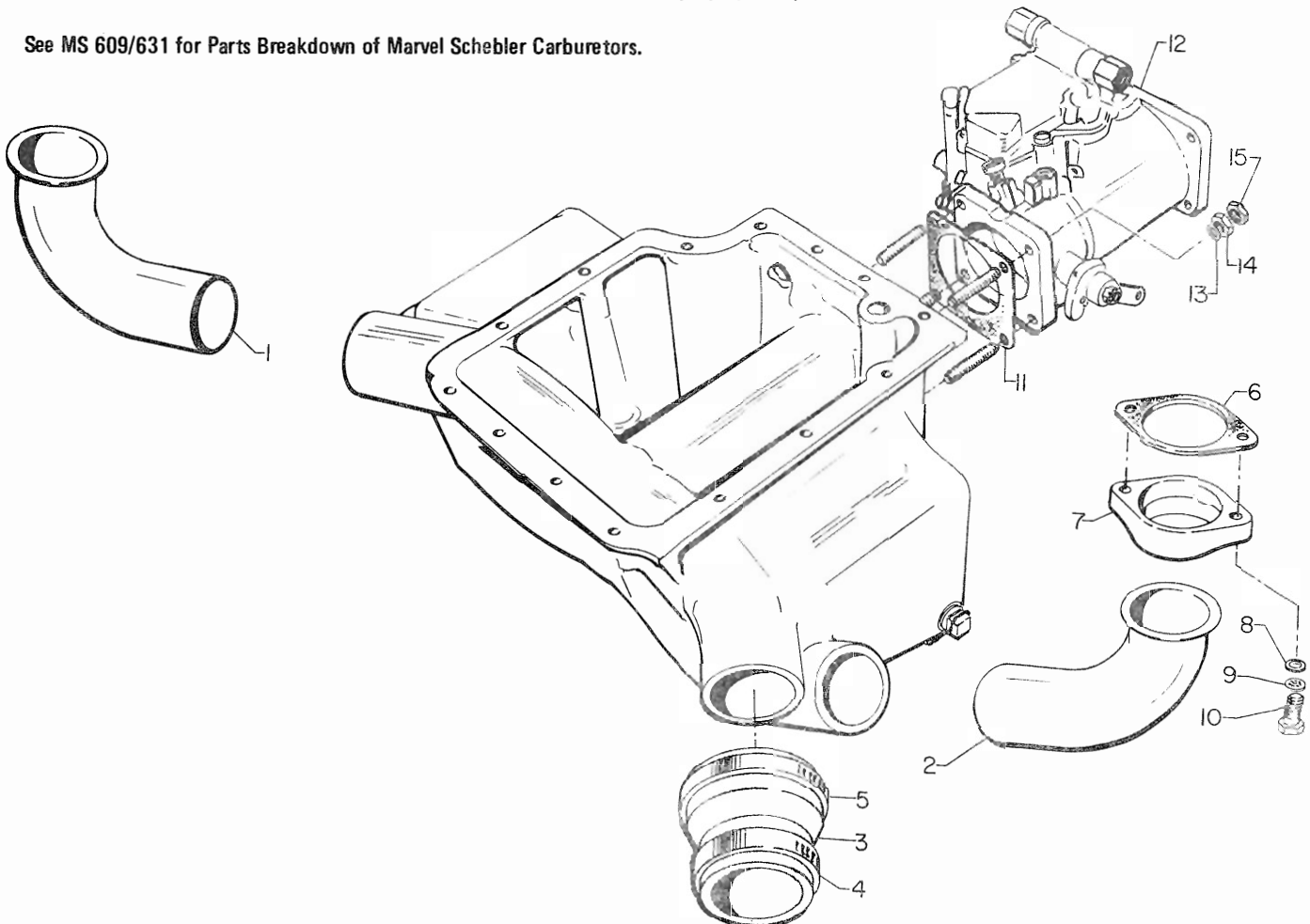


Figure 17. Intake Pipes and Carburetor

LYCOMING 76 SERIES O-360 PARTS CATALOG

SERVICE KIT SECTION

O-360, LO-360 - 76 SERIES
SEAL AND GASKET SET

REF. NO.	PART NUMBER	1 2 3 4 5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
	LW-14815		SEAL AND GASKET SET	1	
	STD-208		SEAL, Oil	1	
	STD-294		GASKET, Thermometer well	1	
	STD-1045		GASKET, Oil pressure relief valve	2	
	8313		GASKET, Vacuum pump	1	
	60096		GASKET, Fuel pump	1	
	65321		GASKET, Exhaust flange	4	
	66224		GASKET, Carburetor	1	
	70310		SEAL, Shroud tube	8	
	70457		GASKET, Oil filler extension	1	
	71481		RING, Oil seal	4	
	71973		GASKET, Intake flange	4	
	72053		GASKET, Governor drive	2	
	72075		SEAL, Oil	7	
	72078		LOCKPLATE, Cam gear	2	
	72091		RING, Oil seal	2	
	72220		GASKET, Oil filler extension	1	
	72312		RING, Oil seal	1	
	75906		GASKET, Rocker box cover	4	
	LW-12272		LOCKPLATE, Shroud tube	4	
	LW-12681		GASKET, Magneto	1	
	LW-14995		SPRING	4	
	LW-13792		SEAL, Crankshaft oil	1	
	LW-14260		SEAL, Tachometer shaft	1	
	LW-15046		GASKET, Oil filter adapter	1	
	LW-15070		SEAL	1	
	LW-15071		GASKET, Oil sump	1	
	LW-15097		SEAL	1	
	LW-15109		SEAL	1	
	LW-15262		LOCKPLATE, Oil pump gear	1	
	LW-15280		SEAL, Shroud tube	8	
	61173		GASKET, Pressure housing	1	
	77154		GASKET, Carburetor	1	

LYCOMING 76 SERIES O-360 PARTS CATALOG

SERVICE KIT SECTION

O-360, LO-360 - 76 SERIES
CYLINDER, PISTON AND RING KIT

REF. NO.	PART NUMBER	1 2 3 4 5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
	LW-15731		CYLINDER, PISTON AND RING ASSEMBLY	1	
	MS-13997-3		KEY, Valve exhaust	2	
	MS-21045-5		NUT, Self-locking	2	
	STD-1411		NUT, Plain	1	
	STD-1925		SCREW, Self-locking	6	
	60009		KEY, Valve intake	2	
	60828		PLUG, Piston pin	2	
	65441		SEAT, Valve spring lower	1	
	70310		SEAL, Shroud tube	2	
	71195		BOX, Set-up	1	
	71481		RING, Oil seal	1	
	73857		RING, Piston	1	
	74241		RING, Piston, compression	1	
	74541		VALVE, Exh. (rotator type)	1	
	75906		GASKET, Rocker box cover	1	
	LW-10076		SEAT, Valve spring - upper - exh.	1	
	LW-10077		SEAT, Valve spring - upper - intake	1	
	LW-11795		SPRING, Valve inner	2	
	LW-11800		SPRING, Valve outer	2	
	LW-12272		LOCKPLATE, Shroud tube	1	
	LW-13323		SEAT, Valve spring, lower exh.	1	
	LW-14995		SPRING, Shroud tube	1	
	LW-14078		PIN, Piston	1	
	LW-15407		SEAT, Valve rocker arm	2	
	LW-15014		ROCKER ASSY., Valve	2	
	LW-15091		WASHER	6	
	LW-15280		SEAL, Shroud tube	2	
	LW-15314		VALVE, Intake	1	
	LW-15316		CAP, Valve stem, exh.	1	
	LW-15322		CYLINDER ASSY. (Nitride)	1	
	LW-15330		COVER, Rocker box	1	
	LW-15357		PISTON	1	

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NUMERICAL INDEX

PART NO.	PART NAME	PAGE NO.	PART NO.	PART NAME	PAGE NO.
AN6-13	Bolt	4-1	LW-15097	"O" ring	3-1
AN6-14	Bolt	4-1	LW-15109	"O" ring	1-6
AN6-36A	Bolt	1-7	LW-15140	Shaft	1-6
AN8-10A	Bolt	1-3	LW-15141	Washer	1-6
AN840-12D	Fitting	1-9	LW-15142	Cover	1-6
LW-38-2.75	Bolt	1-2	LW-15260	Retainer	1-5
LW-10076	Seat	2-3	LW-15262	Lockplate	1-8
LW-10077	Seat	2-3	LW-15263	Gear	1-8
LW-10332	Lockplate	1-3	LW-15265	Strut	4-1
LW-10551	Gear	1-3	LW-15266	Link	4-1
LW-10556	Starter	4-1	LW-15267	Bracket	4-1
LW-10637	Elbow	1-9	LW-15274	Gear	1-6
LW-10945	Roller	1-3	LW-15276	Stud	1-1
LW-10977	Roller	1-3	LW-15277	Stud	1-1
LW-11519	Support Assy.	1-3	LW-15280	Seal	2-3
LW-11795	Spring	2-3	LW-15288	Rod Assy.	2-1
LW-11800	Spring	2-3	LW-15314	Valve	2-3
LW-12097	Carburetor	5-2	LW-15316	Cap	2-3
LW-12136	Cushion	3-1	LW-15322	Cylinder Assy.	2-2
LW-12186	Nut	2-1	LW-15323	Tube	2-3
LW-12272	Lockplate	2-3	LW-15324	Rod Assy.	2-4
LW-12681	Gasket	3-1	LW-15328	Bearing	1-2
LW-13209	Bearing	2-1	LW-15329	Bearing	1-2
LW-13323	Seat	2-3	LW-15330	Cover	2-4
LW-13792	Seal	1-2	LW-15345	Shaft	1-8
LW-13904	Converter	1-9	LW-15357	Piston	2-1
LW-13906	Filter	1-9	LW-15359	Nipple	2-5
LW-13923	Bushing	2-1	LW-15360	Elbow	2-2
LW-14057	Clip	3-1	LW-15361	Tube	2-5
LW-14060	Clip	3-1	LW-15362	Tube	2-5
LW-14078	Pin	2-1	LW-15374	Crankcase Assy.	1-1
LW-14134	Hose	5-2	LW-15376	Tube	1-1
LW-14260	Seal	1-5	LW-15377	Tube	1-1
LW-14280	Ring	1-3	LW-15378	Crankcase Assy.	1-1
LW-14680	Tube	2-5	LW-15379	Baffle	1-5
LW-14708	Gear	1-3	LW-15389	Tach. Adapter & Seal	1-5
LW-14785	Gage	1-2	LW-15399	Fuel pump	1-9
LW-14786	Gage	1-2	LW-15407	Seat	2-4
LW-14916	Pipe	5-2	LW-15585	Tappet	2-4
LW-14995	Spring	2-3	LW-15592-8-28	Clamp	5-2
LW-15014	Arm	2-4	LW-15617	Bracket	1-2
LW-15031	Gear	1-5	LW-15618	Bracket	1-2
LW-15032	Shaft Assy.	1-5	LW-15659	Gear	3-1
LW-15045	Bushing	1-1	LW-15709	Washer	2-4
LW-15046	Gasket	1-9	LW-15834	Crankshaft	1-3
LW-15047	Adapter	1-9	LW-15835	Crankshaft Assy.	1-3
LW-15063	Eye	1-7	LW-15836	Crankshaft & C'wt. Assy.	1-3
LW-15070	Seal	1-8	LW-15931	Body Assy.	1-8
LW-15071	Gasket	5-1	LW-15976	Body Assy.	1-8

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PART NO.	PART NAME	PAGE NO.	PART NO.	PART NAME	PAGE NO.
LW-15998	Impeller Assy.	1-8	STD-557	Dowel	1-1
LW-15999	Impeller Assy.	1-8	STD-557	Dowel	1-8
LW-16001	Camshaft Assy.	1-5	STD-596	Nut	1-7
LW-16002	Camshaft, Gear & Tach Shaft	1-5	STD-678	Washer	1-2
LW-16007	Camshaft Assy.	1-5	STD-678	Washer	1-7
LW-16008	Camshaft, Gear & Tach Shaft	1-5	STD-690	Washer	4-1
LW-16016	Crankshaft	1-3	STD-703	Bolt	1-5
LW-16017	Crankshaft Assy.	1-3	STD-713	Pin	4-1
LW-16018	Crankshaft & C'wt. Assy.	1-3	STD-783	Plug	1-8
LW-382555-14	Magneto	3-1	STD-872	Nut	4-1
LW-382555-15	Magneto	3-1	STD-1045	Gasket	1-2
LW-385124-115	Magneto	3-1	STD-1045	Gasket	5-1
LW-385124-121	Magneto	3-1	STD-1063	Nut	1-8
LW-684406-303	Harness	3-1	STD-1066	Dowel	1-5
MS9048-224	Roll Pin	1-1	STD-1204	Bolt	5-1
MS13997-3	Key	2-3	STD-1211	Plug	1-3
MS16624-1087	Ring	1-5	STD-1215	Bolt	1-7
MS21045-5	Nut	2-4	STD-1215	Bolt	5-2
MS29512-8	Seal	1-9	STD-1339	Plug	1-1
MS124703	Insert	1-9	STD-1410	Nut	1-6
STD-8	Washer	1-6	STD-1410	Nut	1-8
STD-8	Washer	1-7	STD-1410	Nut	2-5
STD-8	Washer	1-8	STD-1410	Nut	3-1
STD-8	Washer	1-9	STD-1410	Nut	4-1
STD-8	Washer	5-1	STD-1410	Nut	5-2
STD-8	Washer	5-2	STD-1411	Nut	1-6
STD-33	Washer	1-7	STD-1411	Nut	1-8
STD-33	Washer	1-9	STD-1411	Nut	2-3
STD-35	Washer	1-6	STD-1411	Nut	5-1
STD-35	Washer	1-8	STD-1411	Nut	1-9
STD-35	Washer	2-5	STD-1530	Clamp	5-2
STD-35	Washer	4-1	STD-1646	Bolt	1-7
STD-35	Washer	5-2	STD-1727	Washer	4-1
STD-96	Key	1-6	STD-1763	Palnut	5-2
STD-160	Washer	1-6	STD-1817	Bolt	4-1
STD-160	Washer	1-7	STD-1843	Bolt	1-9
STD-160	Washer	1-8	STD-1858	Bolt	4-1
STD-160	Washer	1-9	STD-1872	Insert	2-2
STD-160	Washer	5-1	STD-1882	Screw	1-9
STD-160	Washer	5-2	STD-1901	Drive Stud	1-1
STD-208	Seal	1-8	STD-1925	Screw	2-4
STD-294	Gasket	1-9	STD-1975	Bolt	5-1
STD-395	Bolt	1-7	STD-1999	Bolt	5-1
STD-405	Plug	5-1	STD-2047	Bolt	1-7
STD-475	Washer	1-6	STD-2057	Key	1-8
STD-475	Washer	1-8	STD-2078	Dowel	1-3
STD-475	Washer	2-5	STD-2090	Nut	2-4
STD-475	Washer	3-1	STD-2103	Bolt	1-7
STD-475	Washer	4-1	STD-2156	Bolt	4-1
STD-551	Plug	5-1	STD-2169	Roll Pin	1-5

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PART NO.	PART NAME	PAGE NO.	PART NO.	PART NAME	PAGE NO.
STD-2182	Hose	2-5	71610	Hook	2-5
STD-2188	Clamp	2-5	71611	Retainer	2-5
STD-2191	Washer	1-2	71712	Pipe	5-2
25C-9	Stud	2-2	71903	Bushing	1-3
25C-10	Stud	1-1	71907	Washer	1-3
25C-10	Stud	1-9	71973	Gasket	5-2
25C-10	Stud	5-1	72053	Gasket	1-6
25C-12	Stud	1-8	72057	Seat	2-2
31C-12	Stud	1-1	72058	Seat	2-2
31C-12	Stud	2-2	72060	Bushing	1-3
31C-13	Stud	1-1	72061	Bushing	1-3
31C-14	Stud	5-1	72062	Bushing	1-3
31C-16	Stud	1-1	72074	Bushing	1-3
31C-16	Stud	2-2	72075	Ring	1-2
38-13	Stud	1-1	72078	Lockplate	1-5
50-15	Stud	1-1	72091	Ring	1-2
383-B	Nut	2-4	72220	Gasket	1-2
1028-B	Ball	1-2	72312	"O" ring	1-5
1102	Plug	1-1	72378	Cover	1-6
1102	Plug	2-2	72566	Gear	1-3
1182-D4	Spark plug	3-1	72801	Counterweight Assy.	1-3
8313	Gasket	1-8	73346	Flange	5-2
60009	Key	2-3	73810	Bushing	1-3
60096	Gasket	1-9	73857	Ring	2-1
60430	Cover	1-8	74241	Ring	2-1
60828	Plug	2-1	74541	Valve	2-3
61084	Spring	1-2	75339	Baffle Assy.	2-5
61358	Plug	5-1	75906	Gasket	2-4
61378	Screen	5-1	75944	Valve Assy.	1-9
61510	Plug	1-3	75965	Clamp	3-1
61548	Nameplate	1-1	76534	Shim	4-1
65441	Seat	2-3	76734	Zip strap	3-1
66145	Dowel	1-8	76943	Guide	2-2
66796	Insert	2-2	77154	Gasket	5-2
68875	Ring	3-1	77160	Guide	2-2
69796	Dowel	1-1	77579	Support Assy.	1-3
70310	Seal	2-3	77808	Valve Assy.	1-2
71481	Ring	2-4	78027	Bolt	2-1