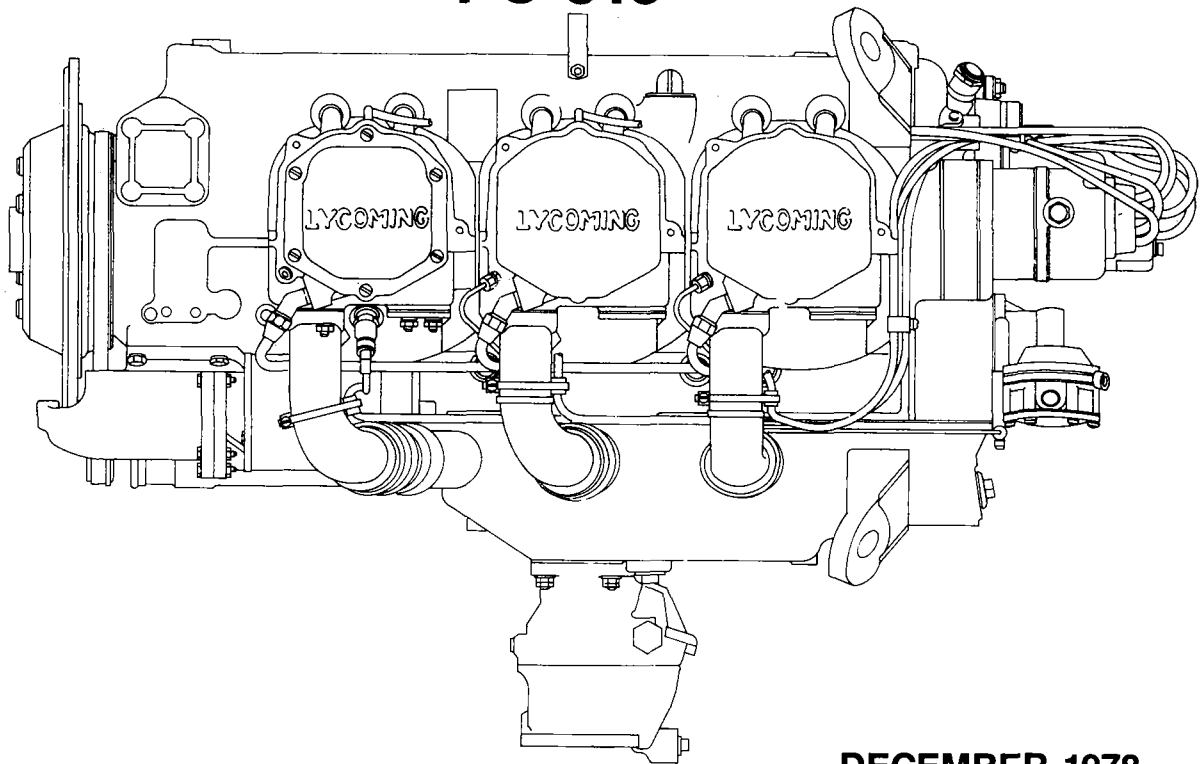


TEXTRON Lycoming AIRCRAFT ENGINES

O-540 (W.C.F.) MODELS

PARTS CATALOG

PC-515



DECEMBER 1978
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TEXTRON Lycoming

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The page(s) furnished herewith are intended to replace the corresponding page(s) of the publication indicated above. If additional copies of the revision are required they may be obtained from Lycoming Division. See Service Letter No. L114H for further information on Lycoming service publications.

Previous revisions to this publication	This revision consists of:-
None	PC-515-1, March 1979 2-5, 2-6 8-2, 8-3 Reprinted August 1991 Including this Revision

INTRODUCTION

This illustrated Parts Catalog provides parts coverage for all current models of 0-540 wide cylinder flange (WCF) series engines. These wide cylinder flange engines are identified by the suffix letter "A" on the engine serial number (e.g. L-18199-40A). The serial number as well as the model designation may be found on the engine nameplate on the oil sump.

Group Assembly Section: This section lists major assemblies and sub-assemblies in the general order of engine build-up.

Service Kit Section: Seal and gasket sets and cylinder, piston and ring kits are provided in this section.

Supersedure Section: This section lists a history of part numbers that have been superseded and gives a brief description of the change involved.

Numerical Index: Quick determination of part location in the catalog is possible thru this section when only the part number is known.

Oversize and Undersize Parts: Procurable oversize and undersize parts are listed preceding the main group assembly parts list.

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

SERVICE BULLETINS, INSTRUCTIONS AND LETTERS

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

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.

0-540 SERIES WIDE CYLINDER FLANGE

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OVERSIZE AND UNDERSIZE PARTS LIST O-540 SERIES WIDE CYLINDER FLANGE

PART NO.	DESCRIPTION	OVERSIZE							UNDERSIZE		
		P05	P075	P10	P125	P15	P20	P30	M03	M06	M10
76943	GUIDE, Valve intake	X		X			X	X			
66610	BUSHING, Rocker shaft	X		X							
66796	INSERT, Spark plug			X							
69796	DOWEL, Crankshaft bearing	X									
LW-10647	DOWEL, Crankshaft bearing	X		X							
71903-A,-B	BUSHING, Counterweight	SEE SERVICE INSTRUCTION NO. 1143 FOR SIZE.									
72057	SEAT, Intake valve			X			X	X			
72058	SEAT, Exhaust valve			X			X	X			
72060	BUSHING, Propeller flange	X		X		X	X				
72061	BUSHING, Propeller flange	X		X		X	X				
72062	BUSHING, Propeller flange	X		X		X	X				
72155	BUSHING, Propeller flange	X		X		X	X				
75656	BUSHING, Propeller flange	X		X		X	X				
75657	BUSHING, Propeller flange	X		X			X				
73810	BUSHING, Crankshaft counterweight	X	X	X	X	X					
77160	GUIDE, Valve exhaust							X			
LW-13521	BEARING, Connecting rod								X	X	X
LW-13884	BEARING, Crankshaft, front								X	X	X
LW-13885	BEARING, Crankshaft, front								X	X	X
LW-11021	BEARING, Crankshaft								X	X	X
LW-11575	BEARING, Crankshaft								X	X	X

Studs available in P03, P07 and P12.

NOTE

When ordering oversize and undersize parts, be sure to specify the required oversize and 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 letter is "P" while undersize code letter is "M". These letters are then followed by the number designating the size in thousandths of an inch.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	LW-13831	CRANKCASE ASSEMBLY		1	1	1	1	1	1										
	LW-13838	CRANKCASE ASSEMBLY								1									
	LW-13844	CRANKCASE ASSEMBLY									1	1							
2	61261	STUD, 5/16-18 x 1-1/2 long	2																
3	67528	STUD, 5/16-18 x 1-5/8 long	1																
4	38-13	STUD, 3/8-16 x 1-5/8 long	24																
5	38-16	STUD, 3/8-16 x 2.00 long	8																
6	38-22	STUD, 3/8-16 x 2-3/4 long	1																
7	38D-17	STUD, 3/8-16 x 2-1/8 long, drilled	1																
8	50-15	STUD, 1/2-20 x 1-7/8 long	12																
9	LW-13794	STUD, 5/16-18 x 1.00 long, drilled		1	1	1	1	1	1	1									
10	69796	DOWEL, Crankshaft bearing	2																
11	LW-10647	DOWEL, Crankshaft bearing		1	1	1	1	1	1	1	1								
12	STD-514	DOWEL, 5/16 dia. x 1/2 long	2																
13	STD-557	DOWEL, 1/2 dia. x 11/16 long	2																
14	STD-1339	PLUG, 1/16-27 pipe, Allen hd.	1																
15	1102	PLUG, 1/8-27 pipe, Allen hd.	4																
16	65007	RETAINER, Shroud tube seal	12																
17	72158	BUSHING, Gov. drive idler shaft	1																
18	67556	STUD, 5/16-18 x 2.00 long (Driven height of studs 1.27 - 1.31)					4			4		4							
19	68316	STUD, 5/16-18 x 1-11/16 long (Driven height of studs .96 - 1.00)			4	4	4	4	4						4				
20	STD-1339	PLUG, 1/16-27 pipe, Allen hd. (assemble in crankcase piston squirt holes)										6							
21	73772	NOZZLE ASSY., Piston cooling										6	6						

LYCOMING 0-540 SERIES PARTS CATALOG WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

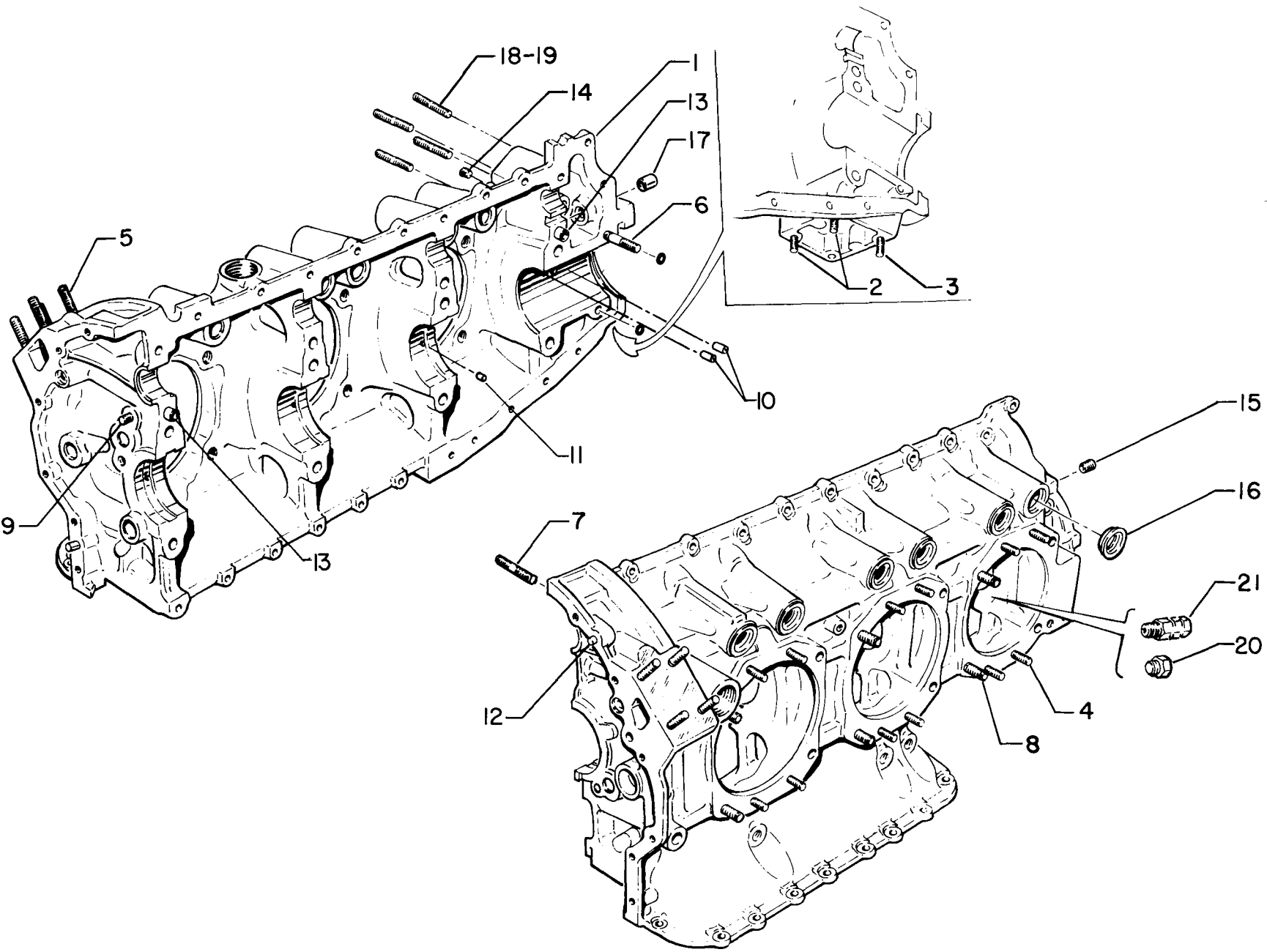


Figure 1 - Crankcase Assembly

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL LEVEL GAGES AND ENGINE MOUNTING PARTS

This diagram shows an exploded view of a mechanical assembly. The main component is a complex metal casting with various ports and mounting points. A vertical assembly is shown being inserted into one of the ports. The components are labeled with numbers 1 through 9. Callout 1 points to the main vertical tube. Callout 2 points to a flange or seal on the tube. Callout 3-4 points to a ring or seal. Callout 5 points to a cap or plug at the top of the tube. Callout 6 points to a large, curved, flexible component (possibly a hose or bellows) attached to the side of the main casting. Callouts 7, 8, and 9 point to small fasteners or pins that secure the flexible component to the casting.

1-3

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY											
				STD 1045	STD 425	STD 440	STD 460	STD 480	STD 500	STD 520	STD 540	STD 560	STD 580	STD 600	STD 620
1	1028-B	BALL, 11/16 dia.	1												
2	68668	SPRING, Oil pressure relief valve	1												
3	STD-1045	GASKET, 1-1/4 OD x 1-1/2 OD x 3/32													
		annular	1												
4	STD-425	WASHER, No. 10 plain (Max. 9)	un												
5	76529	PLUG, Oil relief valve	1												
6	LW-11021	BEARING, Crankshaft			6	6	6	6	6	6					
	LW-11575	BEARING, Crankshaft									6	6	6		
7	LW-13884	BEARING, Crankshaft, front			2	2	2	2	2	2					
	LW-13885	BEARING, Crankshaft, front									2	2	2		
8	LW-13792	SEAL, Crankshaft oil			1	1	1	1	1	1					
	LW-15628	SEAL, Crankshaft oil									1	1	1		
9	72091	RING, Oil seal, 23/64 ID x 7/64													
		dia. section	2												
10	72877	BODY, Hydraulic tappet	12												

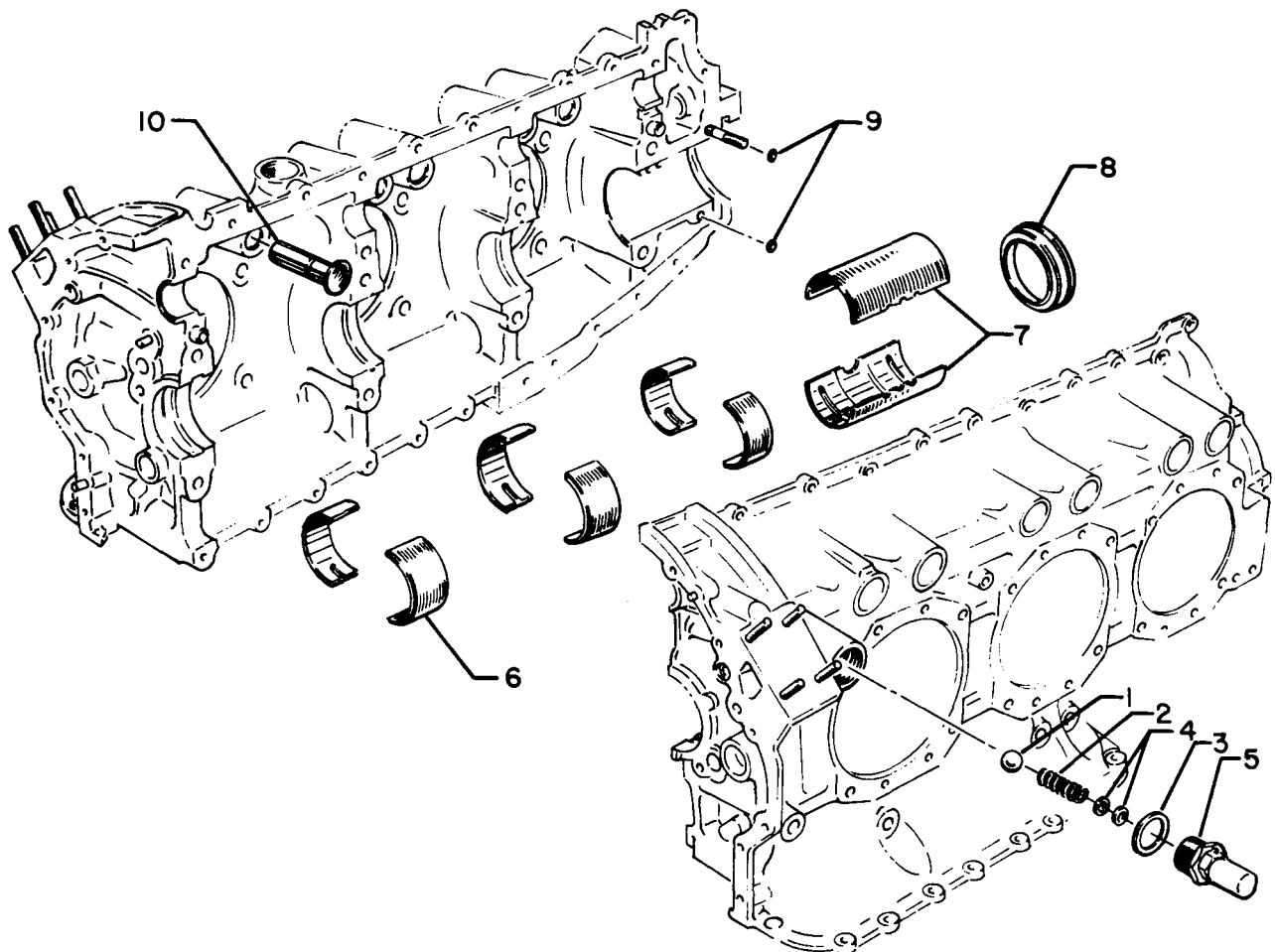


Figure 3

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKSHAFT, CAMSHAFT AND RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK	CRK
4																			
	75073	CRANKSHAFT AND COUNTERWEIGHT ASSY.			1	1													
	75040	CRANKSHAFT AND COUNTERWEIGHT ASSY.					1	1	1	1									
	77193	CRANKSHAFT AND COUNTERWEIGHT ASSY.											1						
	LW-12280	CRANKSHAFT AND COUNTERWEIGHT ASSY.													1	1			
1	75039	CRANKSHAFT ASSY.			1	1	1	1	1	1	1								
	77192	CRANKSHAFT ASSY.											1						
	LW-12279	CRANKSHAFT ASSY.													1	1			
2	STD-1211	PLUG, 2.00 dia. expansion	1																
3	73810	BUSHING, Crankshaft dynamic counterweight	4																
4	71640	PLUG, 1-3/8 dia.			1	1	1	1	1	1	1								
	60945	PLUG, 1-1/4 dia.											1	1	1				
5	72062	BUSHING, Prop. flange, long			4	4	4	4	4	4	4								
	75656	BUSHING, Prop. flange, long											4	4	4				
6	72061	BUSHING, Prop. flange, short			1	1	1	1	1	1	1								
	72155	BUSHING, Prop. flange, short											1	1	1				
7	72060	BUSHING, Prop. flange, indexing			1	1	1	1	1	1	1								
	75657	BUSHING, Prop. flange, indexing											1	1	1				
8	STD-1065	DOWEL, Stepped, 19/64 x 1/4 x 35/64 long			1	1	1	1	1	1	1								
	STD-2078	DOWEL, 3/8 OD x 1/2 long													1	1			
9	71904	COUNTERWEIGHT ASSY.			2	2							2	2	2				
	72801	COUNTERWEIGHT ASSY.					2	2	2	2									
10	71903	BUSHING, Dynamic counterweight	8																
11	70416	ROLLER, Dynamic counterweight, 6th order			2	2							2	2	2				
	72797	ROLLER, Dynamic counterweight, 6.3 order					2	2	2	2									
12	72022	ROLLER, Dynamic counterweight, 5.1 order			2	2							2	2	2				
	72965	ROLLER, Dynamic counterweight, 5.1 order					2	2	2	2									
13	LW-14820	RING, Internal retaining	8																
14	71907	WASHER, Dynamic counterweight	8																
15	76148	CAMSHAFT ASSEMBLY	1																
16	67514	GEAR, Crankshaft			1	1	1	1	1	1	1								
	LW-10284	GEAR, Crankshaft													1	1			
17	67516	LOCKPLATE, Crankshaft gear			1	1	1	1	1	1	1								
	LW-10332	LOCKPLATE, Crankshaft gear													1	1			
18	STD-1937	SCREW, 5/16-24 x 1-3/4 long			1	1	1	1	1	1	1								
	AN8-14A	BOLT, 1/2-20 x 1-37/64 long													1	1			

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

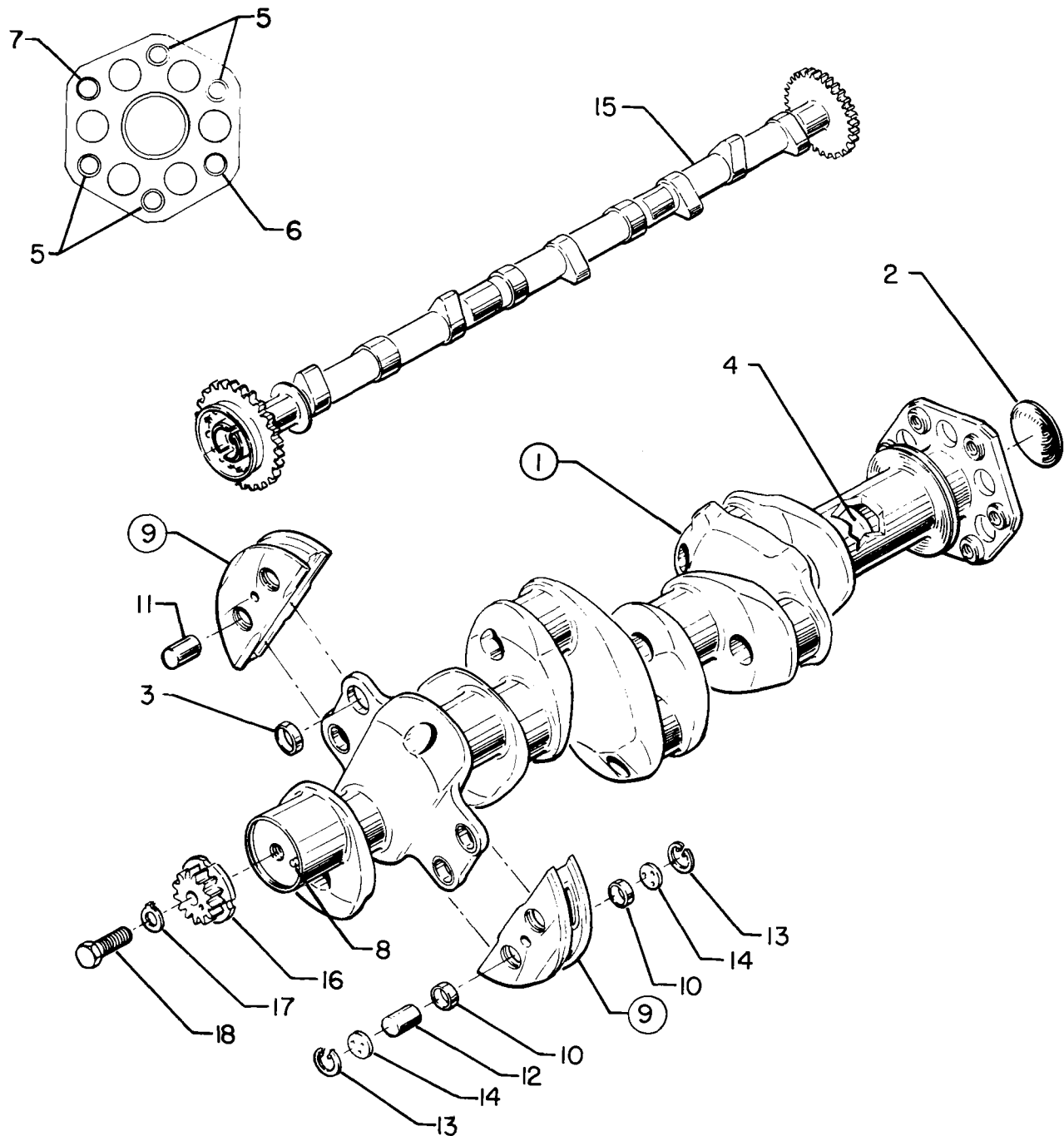


Figure 4 - Crankshaft, Camshaft and Related Parts

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

STARTER RING GEAR SUPPORT ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				B 2B 3B	B 3B 4B	B 4B 5B	B 5B 6B	B 6B 7B	B 7B 8B	B 8B 9B	B 9B 10B	B 10B 11B	B 11B 12B	B 12B 13B	B 13B 14B	B 14B 15B	B 15B 16B	B 16B 17B	B 17B 18B
5																			
1	75030	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive						1		1									
	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive			1	1	1				1	1	1						
	72565	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 1.91:1 drive					1		1										
2	72566	GEAR, Starter ring, 12/14 pitch	1																

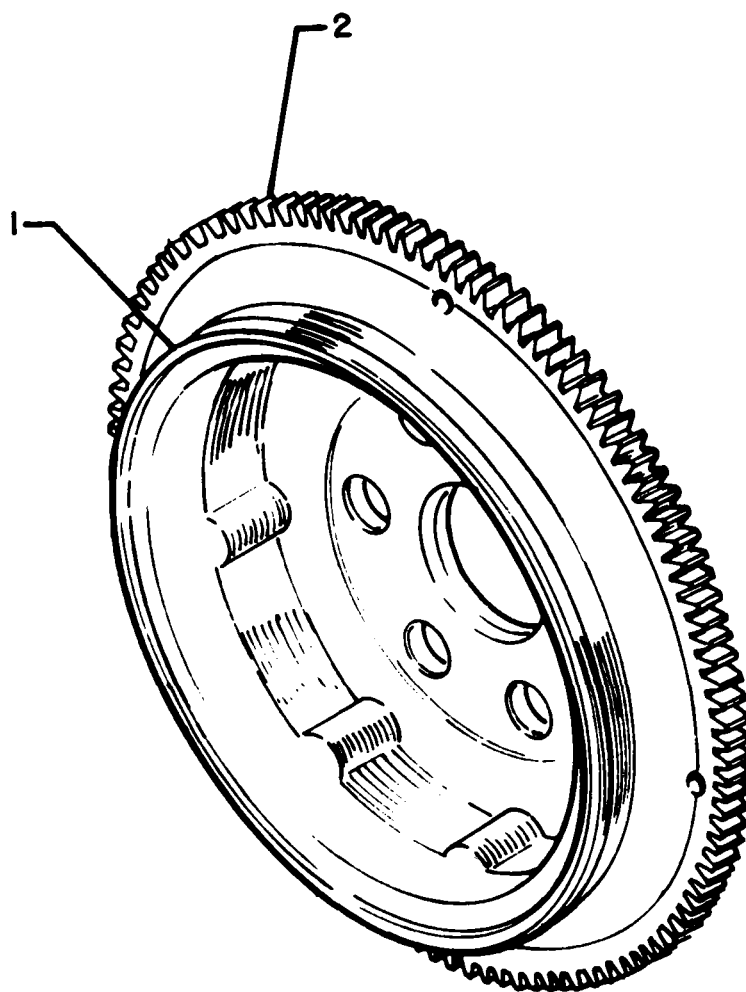


Figure 5

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKSHAFT IDLER GEARS AND TACHOMETER DRIVE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY											
				CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR
6															
1	61544	PLUNGER, Fuel pump, long	1												
2	71668	GEAR ASSY., Crankshaft idler, plain		1	2	1	1	1	1	1					
	71652	GEAR ASSY., Crankshaft idler		1	1	1	1	1	1	1					
3	67530	BUSHING, Crankshaft idler gear		2	2	2	2	2	2	2					
4	LW-10290	GEAR ASSY., Crankshaft idler									1	1			
	LW-10297	GEAR ASSY., Crankshaft idler									1	1			
5	76155	SHAFT ASSY., Tachometer	1												
6	78368	PIN, 3/16 dia. x 2-21/64 long	1												
7	76118	SPACER, Tach. shaft centering	1												
8	MS16625-1081	RING, Internal retaining	1												
9	LW-13795	SHAFT, Crankshaft idler gear		2	2	2	2	2	2	2					
10	STD-2167	SCREW, 5/16-18 x 43/64 long, hex													
		hd. dr.		3	3	3	3	3	3	3					
11	STD-2168	NUT, 5/16-18 NC-3 slotted shear		1	1	1	1	1	1	1					

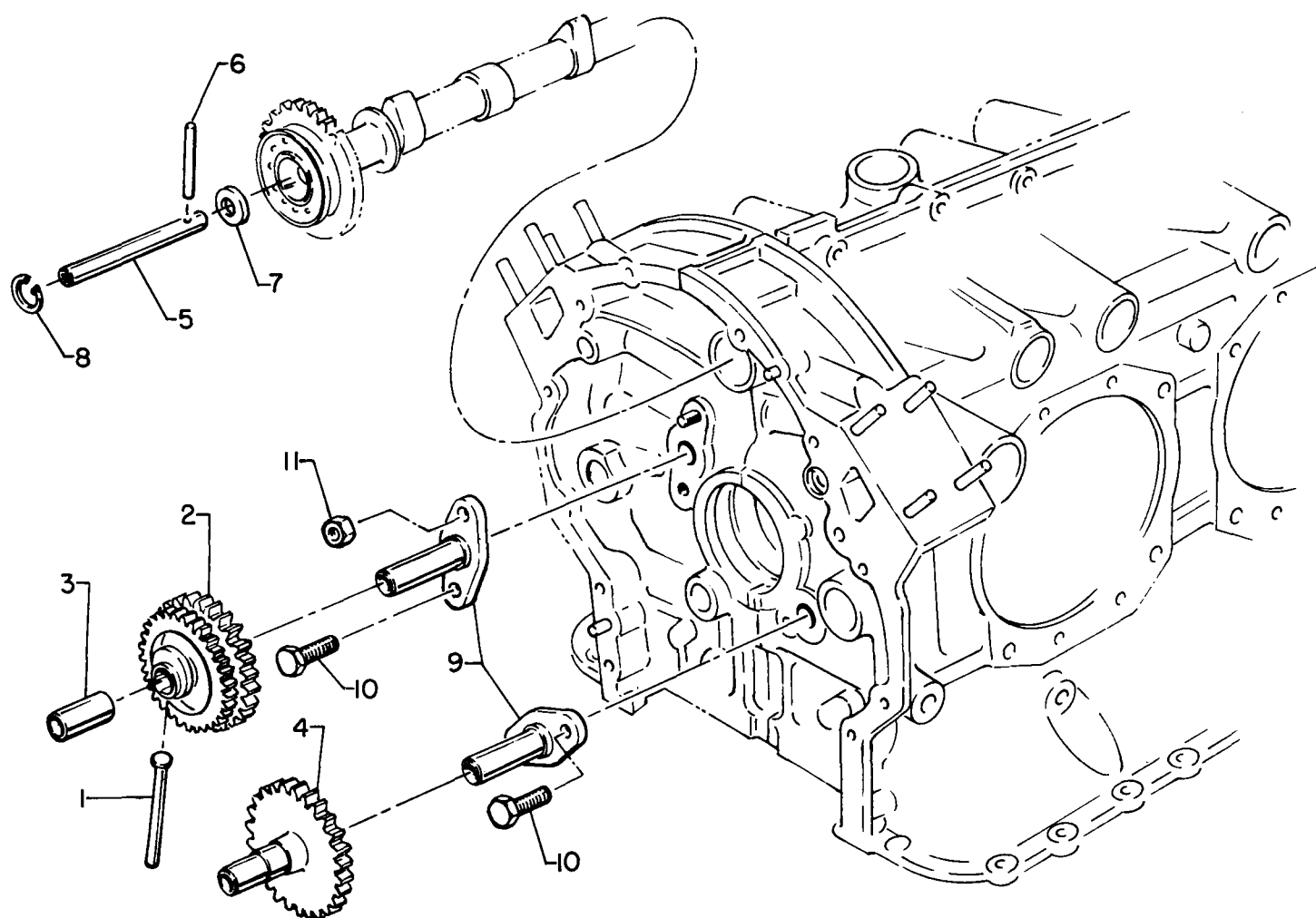


Figure 6

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

PROPELLER GOVERNOR DRIVE (CRANKCASE)

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				5000	5001	5002	5003	5004	5005	5006	5007	5008	5009	5010	5011	5012	5013	5014	5015
7																			
1	LW-10442	GEAR, Prop. governor drive						1	1	1	1	1	1						
2	LW-14021	SHAFT, Prop. governor idler gear						1	1	1	1	1	1						
3	LW-10541	GEAR ASSY., Prop. governor, idler						1	1	1	1	1	1						
4	77872	BUSHING, Prop. governor idler gear						2	2	2	2	2	2						
5	STD-19	DOWEL, 3/32 dia. x 7/32 long						1	1	1	1	1	1						
6	STD-798	DOWEL, 3/32 dia. x 9/32 long						1	1	1	1	1	1						
7	73249	WASHER, Thrust						un	un	un	un	un	un						
	73250	WASHER, Thrust						un	un	un	un	un	un						
	73251	WASHER, Thrust						un	un	un	un	un	un						
	73252	WASHER, Thrust						un	un	un	un	un	un						
8	AN565B1032H5	SET SCREW, No. 10-32 x 5/16 long						1	1	1	1	1	1						
9	70455	GASKET, 25/32 ID x 1-1/8 OD x 1/16 thick	1																
10	LW-13896	PLUG, 3/4-16 hex hd.	1																
11	72053	GASKET, Governor	1																
12	72378	COVER, Governor drive	1																
13	STD-35	WASHER, 5/16 plain				4	4	un	un	un	un	un	un			4			
14	STD-475	WASHER, Internal lock, 5/16 in.	4																
15	STD-1410	NUT, 5/16-18 plain	4																
16	78589	PLUG, Prop. gov. idler shaft				1	1									1			
17	74058	PLUG, Prop. gov. drive gear				1	1									1			

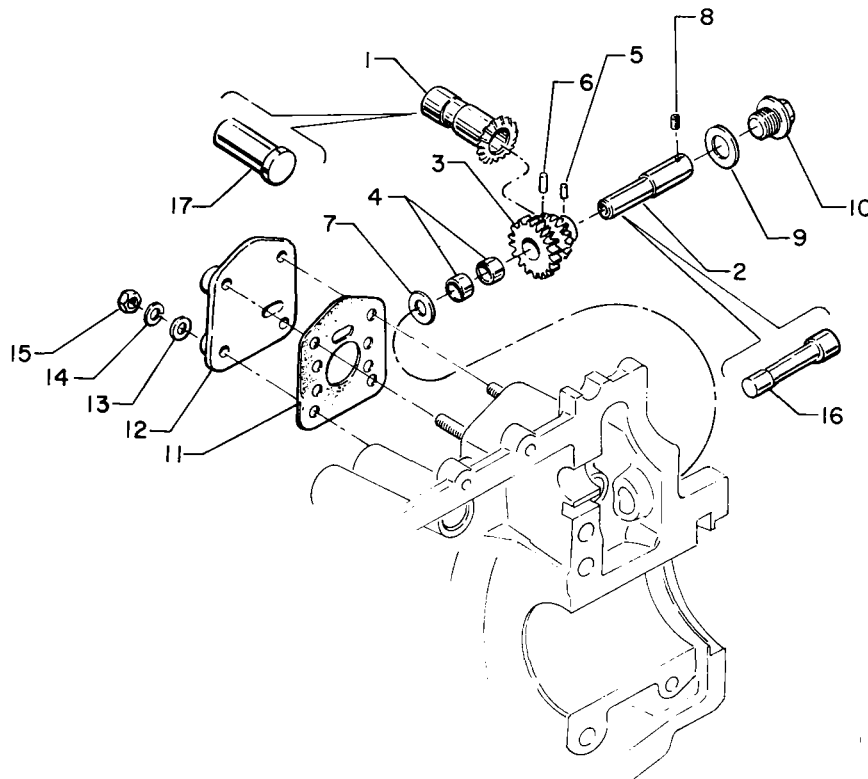


Figure 7

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1B	2B	3B	4B	5B	6B	7B	8B	9B	10B	11B	12B	13B	14B	15B	16B
8																			
1	STD-1414	BOLT, 1/4-20 x 1-1/2 long, hex hd.		11	11	11	10	10	10	10	10	10	10	10	10				
2	STD-8	WASHER, 1/4 plain		27	27	27	26	26	26	26	26	26	26	26	26				
3	60803	STRAP, Lifting		1	1	1	2	2	2	2	2	2	2	2	2				
4	STD-2084	BOLT, 1/4-20 x 1-3/4 long, hex hd.		1	1	1	2	2	2	2	2	2	2	2	2				
5	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex hd.	4																
6	STD-160	WASHER, 1/4 lock, internal	16																
7	STD-1411	NUT, 1/4-20 plain	12																
8	STD-1416	BOLT, 1/4-20 x 1-1/2 long, hex hd.																	
		dr. end	6																
9	STD-8	WASHER, 1/4 plain (18 Max.)	un																
10	STD-1409	NUT, 1/4-20 slotted shear	6																
11	STD-33	WASHER, 3/8 plain	1																
12	STD-872	NUT, 3/8-24 slotted	1																
13	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex																	
		hd.	1																
14	STD-33	WASHER, 3/8 plain	3																
15	STD-678	WASHER, 3/8 internal lock	2																
16	STD-596	NUT, 3/8-24 plain	2																
17	76220	STUD, 1/2-20 x 10-45/64 long	8																

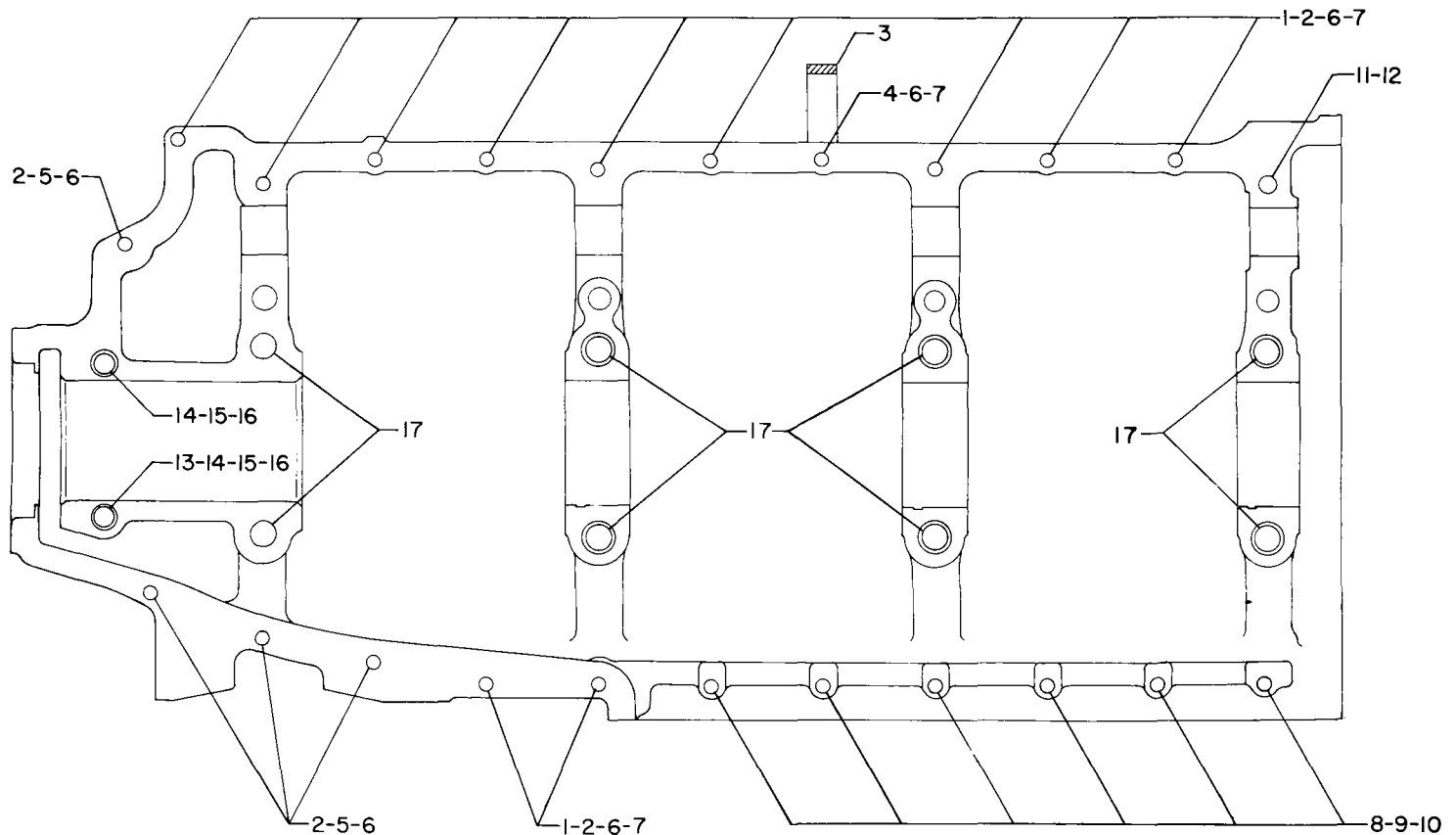


Figure 8
1-10

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

ACCESSORY HOUSING ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	73818	GASKET, Accessory housing	1																
2	76152	HOUSING ASSEMBLY, Accessory		1	1	1	1	1	1	1									
	LW-10916	HOUSING ASSEMBLY, Accessory													1	1			
3	61261	STUD, 5/16-18 x 1-1/2 long		4	4	4	4	4	4	4									
4	31CD-20	STUD, 5/16-18 x 2-1/2 long, drilled													3	3			
5	61265	STUD, 5/16-18 x 2-3/16 long, drilled		3	3	3	3	3	3	3									
6	67528	STUD, 5/16-18 x 1-5/8 long													3	3			
7	70470	STUD, 5/16-18 x 2-35/64 long		4	4	4	4	4	4	4	2	2							
8	25C-21	STUD, 1/4-20 x 2-5/8 long		4	4	4	4	4	4	4									
9	25C-12	STUD, 1/4-20 x 1-1/2 long													8	8			
10	STD-784	PLUG, 3/8 pipe, Allen hd.		1	1	1	1	1	1	1									
11	1102	PLUG, 1/4-27 NPT, Allen		2	2	2	2	2	2	2									
12	LW-12589	INSERT, Heli-coil, 5/8-18 x 3/8 long													1	1			
13	MS124703	INSERT, Heli-coil, 3/4-16 x 1-1/8 long													1	1			
14	LW-10341	INSERT, Heli-coil, 1.00-14 x 3/8 long													1	1			
15	76156	SHIELD, Oil accessory, breather	1																
16	1102	PLUG, 1/4-27 NPT, Allen hd.													1	1			

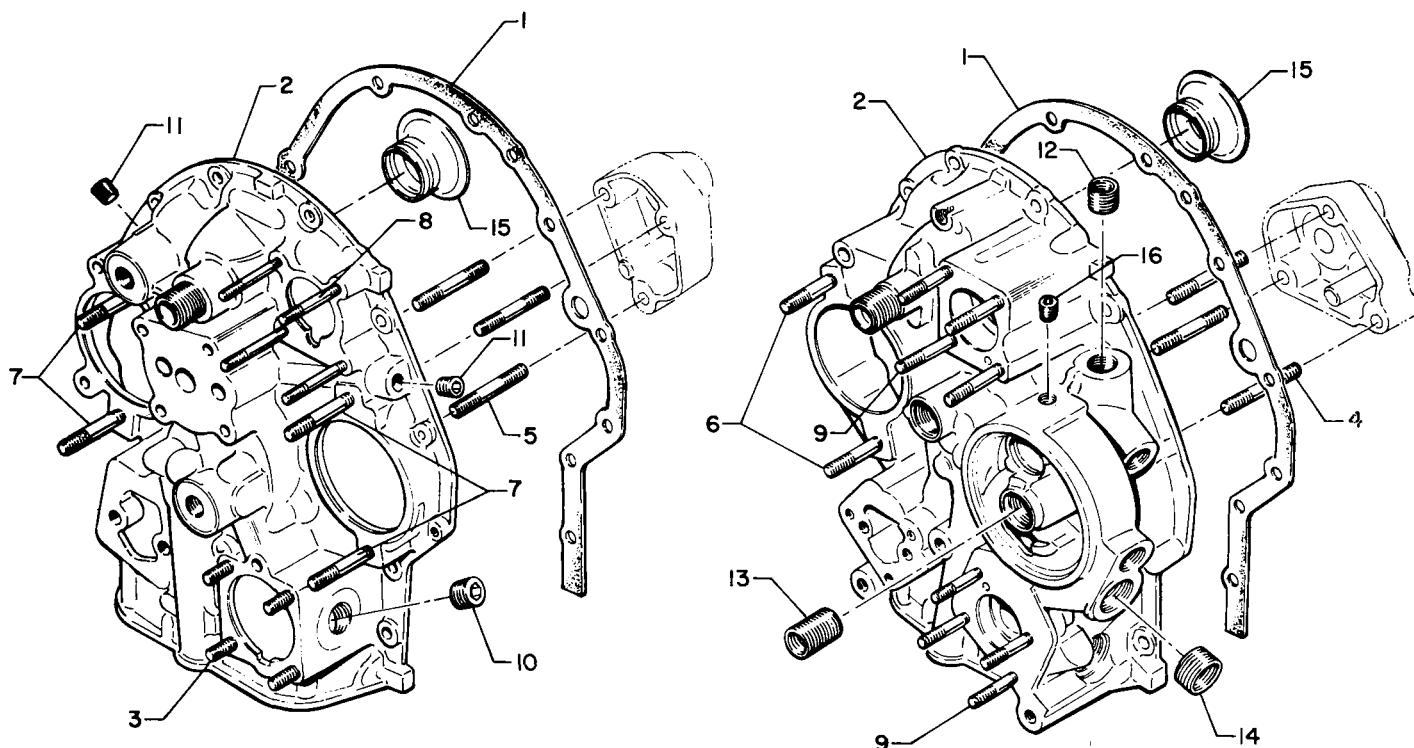


Figure 9
2-1

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

OIL PUMP AND ACCESSORY HOUSING ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				1B2B	1B3B	1B4B	1B5B	1B6B	1B7B	1B8B	1B9B	1B10B	1B11B	1B12B	1B13B	1B14B	1B15B
1	78528	BODY ASSY., Oil pump		1	1	1	1	1	1	1	1						
2	STD-1339	PLUG, 1/16-27 NPT, Allen hd.		1	1	1	1	1	1	1	1						
3	LW-10344	BODY ASSY., Oil pump										1	1				
4	LW-10318	GEAR ASSY., Oil pump drive										1	1				
5	74641	SHAFT, Oil pump drive		1	1	1	1	1	1	1	1						
6	LW-13775	IMPELLER ASSY., Oil pump driven		1	1	1	1	1	1	1	1						
7	61298	IMPELLER, Oil pump driven										1	1				
8	60746	IMPELLER, Oil pump driving		1	1	1	1	1	1	1	1						
9	61297	IMPELLER, Oil pump driving										1	1				
10	STD-35	WASHER, Plain, 5/16	3														
11	STD-1420	NUT, Slotted, 5/16-18	3														
12	LW-14260	SEAL, Tachometer drive oil	1														
13	STD-8	WASHER, Plain, 1/4 in.		10	10	10	10	10	10	10	10	12	12				
14	STD-160	WASHER, Internal lock, 1/4 in.	12														
15	STD-1204	BOLT, Hex hd., 1/4-20 x 15/16 long	9														
16	STD-1419	BOLT, Hex hd., 1/4-20 x 1-1/8 long		1	1	1	1	1	1	1	1						
17	STD-1215	BOLT, Hex hd., 1/4-20 x 1-1/4 long										1	1				
18	STD-1931	BOLT, Hex hd., 1/4-20 x 1-7/8 long		2	2	2	2	2	2	2	2						
19	STD-1875	BOLT, Hex hd., 1/4-20 x 1-13/16 long										2	2				

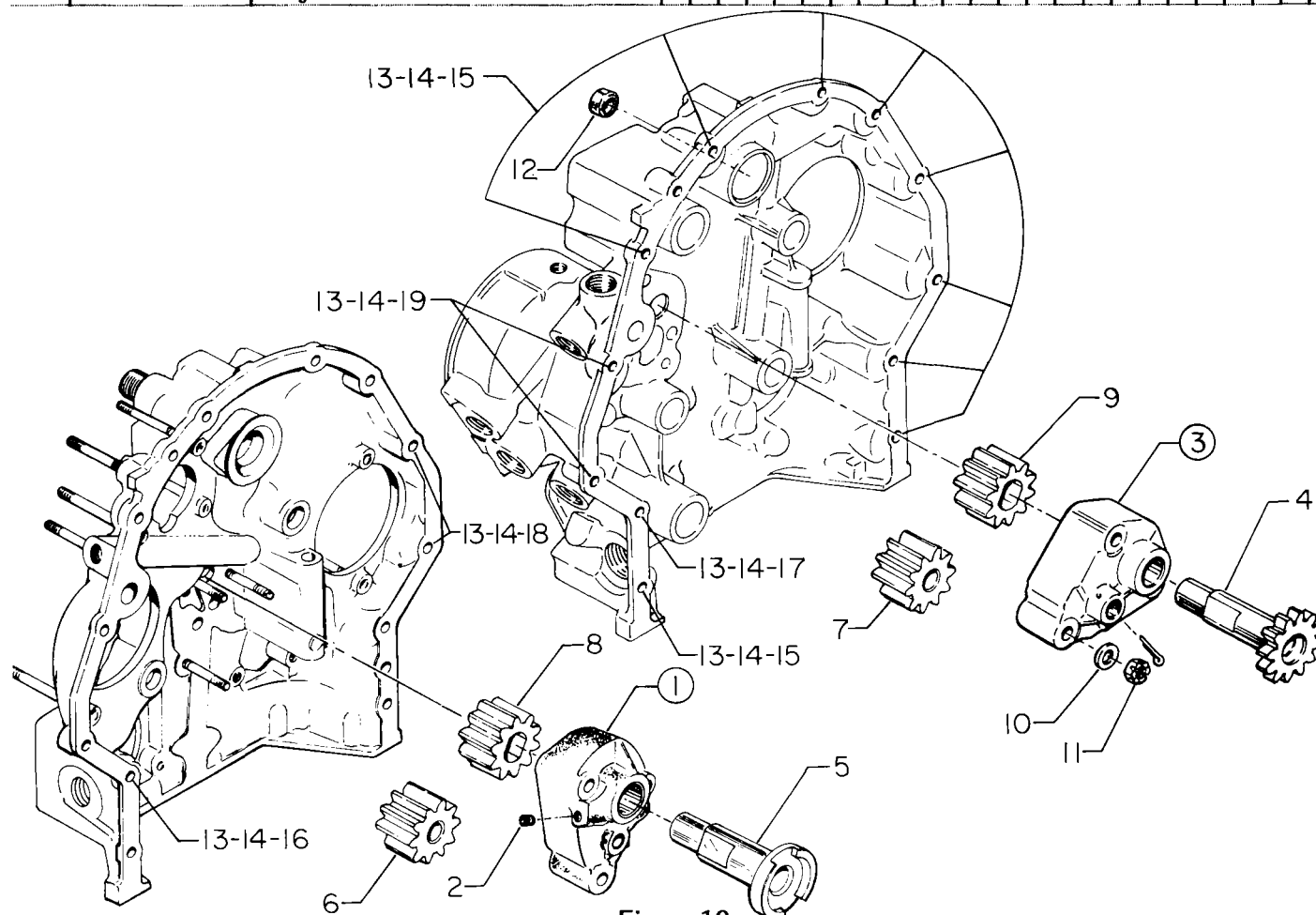


Figure 10

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

FUEL PUMP ASSEMBLY AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
11																			
1	60096	GASKET, Fuel pump	1																
2	75246	FUEL PUMP, Dual diaphragm	1																
3	STD-33	WASHER, Plain, 3/8	2																
4	STD-1882	SCREW, Socket hd., 3/8-16 x 1-9/32																	
		long, dr. hd.	2																

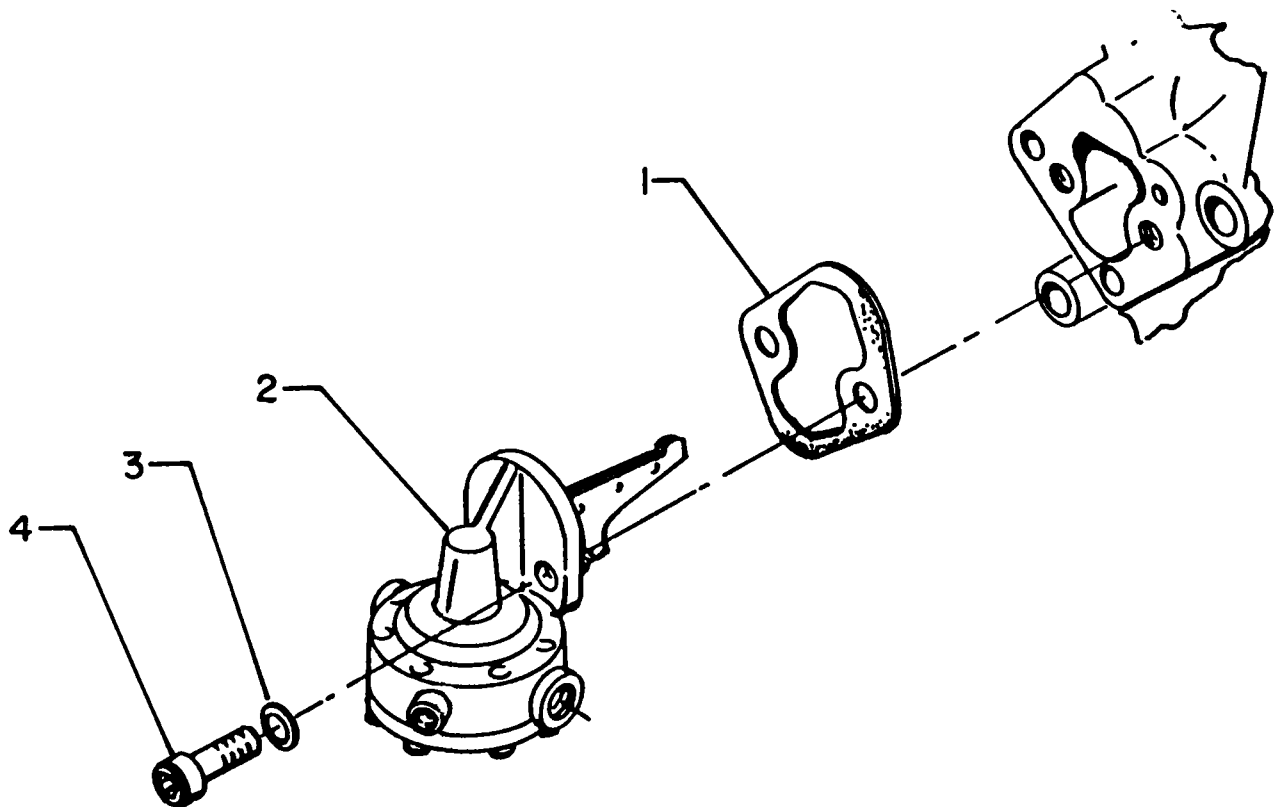


Figure 11

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

VACUUM PUMP, FUEL PUMP DRIVES AND COVERS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
12																			
1	61183	GASKET, Accessory adapter				1	1	1	1	1	1	1							
2	67536	ADAPTER ASSY., Vacuum pump						1	1	1									
3	STD-1774	DOWEL, 1/8 dia. x 1/4 long						1	1	1									
4	STD-208	OIL SEAL, 7/8 ID x 1-1/2 OD x 5/16 wide							1	1	1				1				
5	72974	GEAR ASSY., Vacuum pump driven						1	1	1									
6	LW-10307	GEAR ASSY., Accessory driven													1				
7	LW-10303	PLUG, Vacuum pump drive													1	1			
8	71596	WASHER, Accessory driven gear						1	1	1					1				
9	8313	GASKET, Vacuum pump						1	1	1					1	1			
10	60430	COVER, Vacuum pump	1																
11	68593	SPACER, Vacuum pump stud				4	4	4				4	4						
12	STD-8	WASHER, Plain, 1/4 in.	4																
13	STD-160	WASHER, Internal lock, 1/4 in.	4																
14	STD-1411	NUT, Plain, 1/4-20 in.	4																

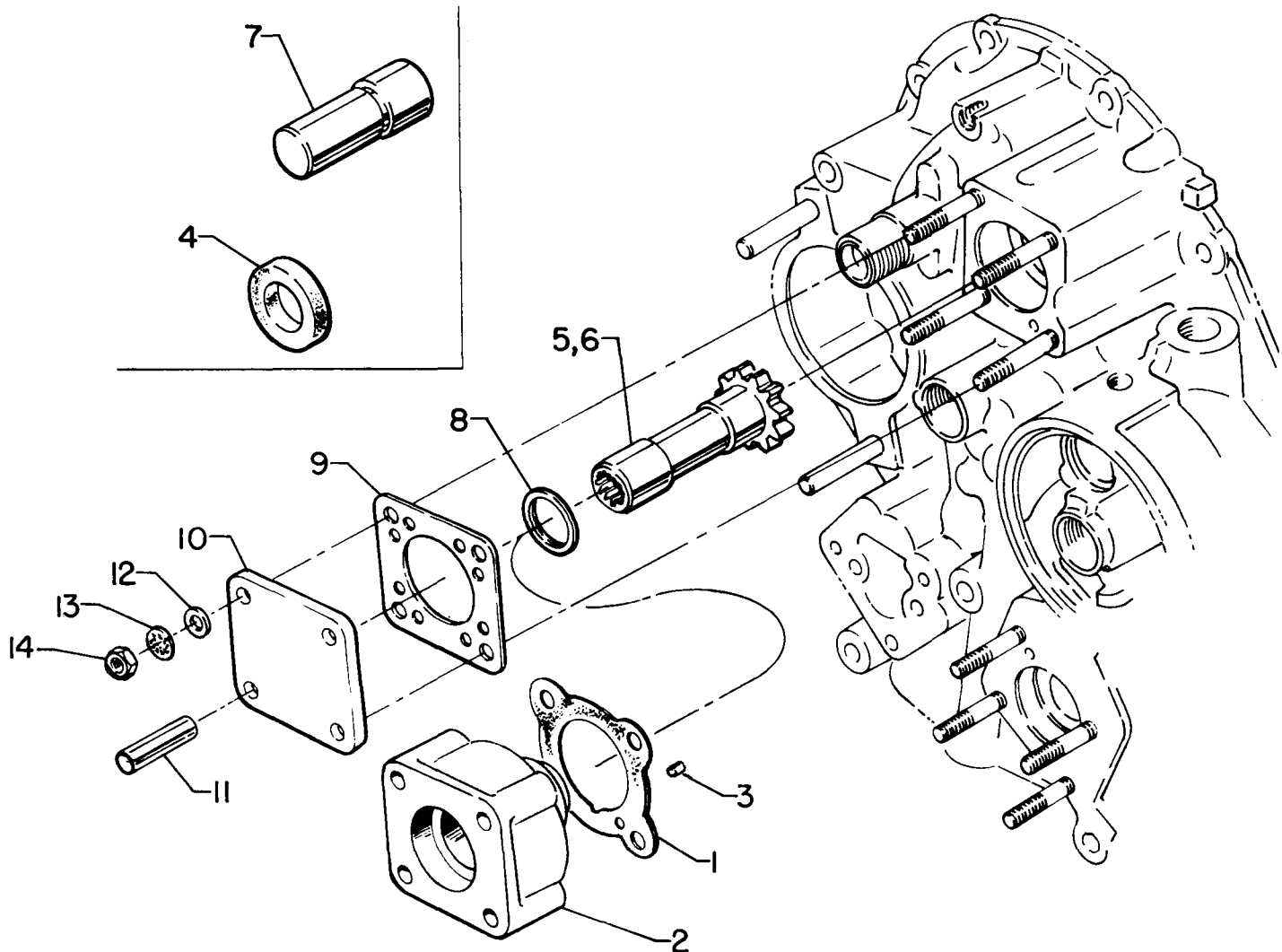


Figure 12
2-4

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

HYDRAULIC PUMP DRIVE AND COVER

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13																			
1	69551	GASKET, Accessory drive adapter		1	1	1	1	1	1	1									
2	69106	COVER, Gov. drive adapter pad		1	1	1	1	1	1	1									
3	STD-35	WASHER, Plain, 5/16 in.		4	4	4	4	4	4	4									
4	STD-475	WASHER, Internal lock, 5/16 in.		4	4	4	4	4	4	4									
5	STD-1410	NUT, Plain, 5/16-18		4	4	4	4	4	4	4									
6	72964	GEAR ASSY., Hydraulic pump driven								1									
7	LW-10671	GEAR ASSY., Accessory driven									1	1							
8	71596	WASHER, Accessory drive gear								1	1	1							
9	68315	GASKET, Accessory drive adapter								1									
10	STD-208	SEAL, Oil, 7/8 ID x 1-1/2 OD x 5/16 wide									1	1							
11	AN123857	"O" RING, .140 - .150 ID x .07 section									1	1							
12	71675	ADAPTER ASSY., Hydraulic pump								1									
13	STD-208	SEAL, 7/8 ID x 1-1/2 OD x 5/16 wide								1									
14	25C-12	STUD, 1/4-20 x 1-1/2 long								4									
15	STD-1774	PIN, 1/4 dia. x 1/4 long								1									
16	LW-10331	ADAPTER ASSY., Hydraulic pump									1	1							
17	STD-1631	DOWEL, 5/32 dia. x 11/32 long									1	1							
18	STD-35	WASHER, Plain, 5/16 in.								4	1	1							
19	STD-8	WASHER, Plain, 1/4 in.									4	4							
20	STD-475	WASHER, Internal lock, 5/16 in.								4	1	1							
21	STD-160	WASHER, Internal lock, 1/4 in.									4	4							
22	STD-1410	NUT, Plain, 5/16-18								4	1	1							
23	STD-1411	NUT, Plain, 1/4-20									4	4							
24	8313	GASKET, Vacuum pump								1									
25	20415	GASKET, Hydraulic pump									1	1							
26	60430	COVER, Vacuum pump								1									
27	72412	COVER, Hydraulic pump									1	1							
28	STD-1828	BOLT, 5/16-18 x 1-5/16 long, hex hd.									2	2							
29	STD-8	WASHER, Plain, 1/4 in.								4									
30	STD-35	WASHER, Plain, 5/16 in.									6	6							
31	STD-160	WASHER, Internal lock, 1/4 in.								4									
32	STD-475	WASHER, Internal lock, 5/16 in.									4	4							
33	STD-1411	NUT, Plain, 1/4-20 in.								4									
34	STD-1410	NUT, Plain, 5/16-20 in.									4	4							

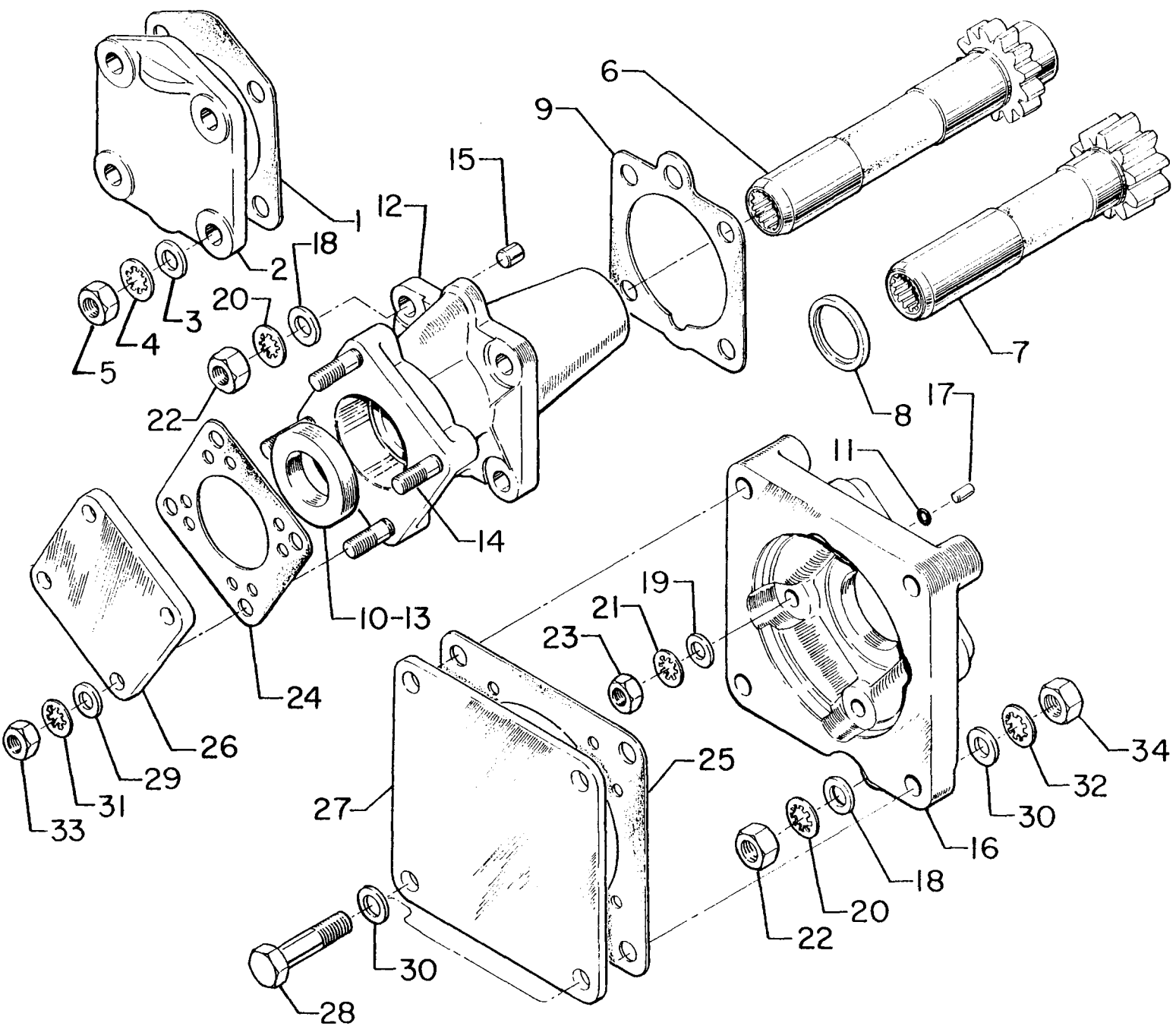


Figure 13 - Hydraulic Pump Drive and Cover

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS

OIL PRESSURE SCREEN FILTER AND OIL COOLER BYPASS VALVE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14																			
1	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 annular			1		1	1		1									
2	62817	SCREEN ASSY., Oil pressure			1		1	1		1									
3	61173	GASKET, Oil pressure housing			1		1	1		1									
4	69510	HOUSING, Thermostatic valve and oil pressure screen			1		1	1		1									
5	STD-8	WASHER, Plain, 1/4 in.			4	4	4	4	4	4	4	4							
6	STD-1856	SCREW, 1/4-20 x 1.00 long, hex hd., slotted			4	3	4	4	4	4	4	3							
7	75944	VALVE ASSY., Temp. control oil cooler bypass	1																
8	LW-12795	GASKET, Oil filter adapter				2	2		2		2								
9	77853	OIL FILTER HOUSING ASSEMBLY				1	1				1								
10	77852	OIL FILTER BASE ASSEMBLY				1	1		1		1								
11	LW-10660	OIL FILTER ASSEMBLY										1	1						
12	LW-13215	OIL FILTER ASSY., Short					1		1										
13	LW-10321	SPRING, Oil filter bypass valve										1	1						
14	76539	SEAT, Oil relief valve										1	1						
15	LW-13320	SLEEVE, Oil filter bypass valve										1	1						
16	MS16625-1100	RING, Internal retaining										1	1						
17	STD-160	WASHER, Internal lock, 1/4 in.				1	1		1										
18	STD-1411	NUT, Plain, 1/4-20				1	1		1										
19	25C-10	STUD, 1/4-20 x 1-1/4 long				1	1		1										

LYCOMING 0-540 SERIES PARTS CATALOG
WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

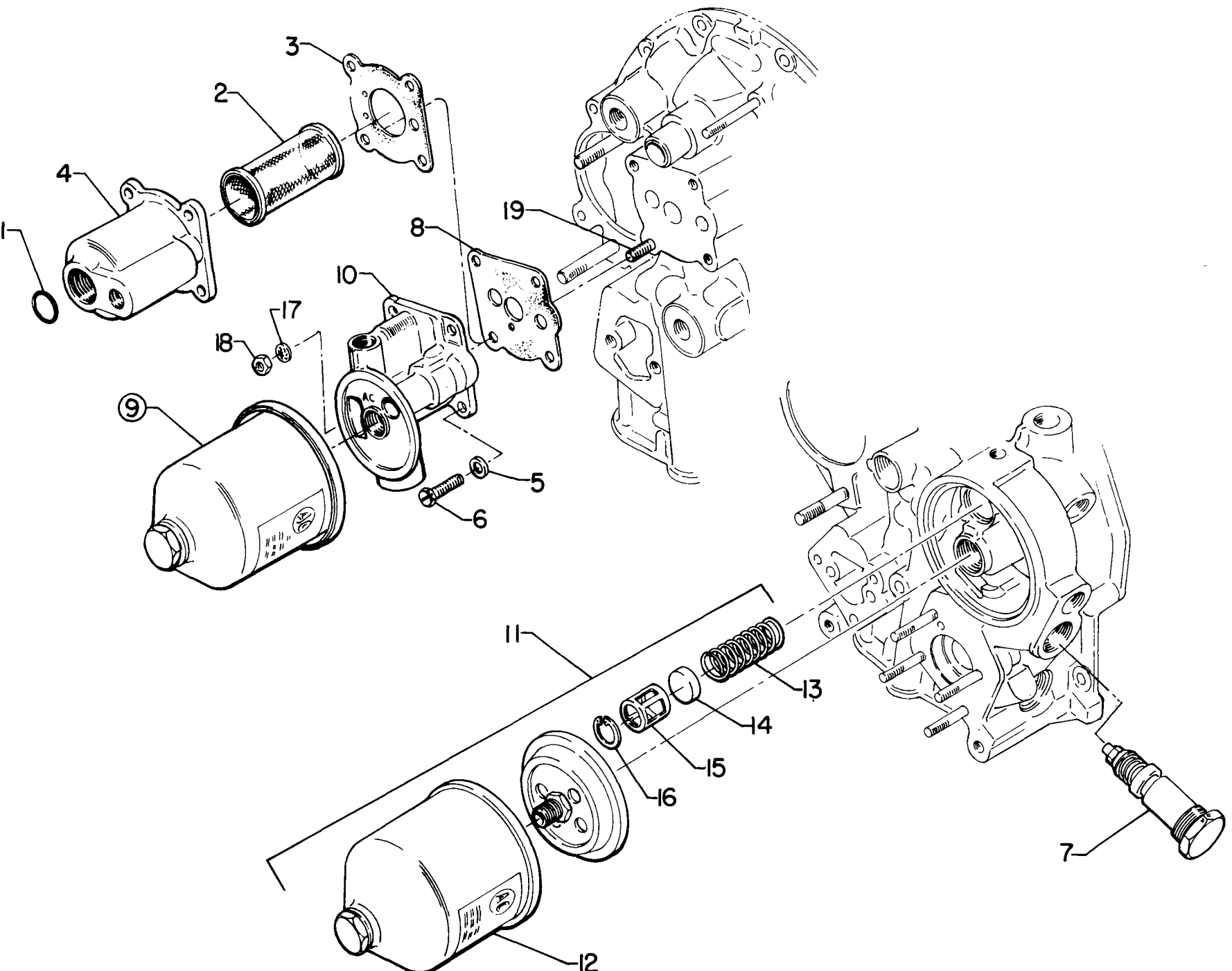


Figure 14 - Oil Pressure Screen, Filter and Oil Cooler Bypass Valve

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN

CONNECTING ROD, PISTONS AND RING ASSEMBLIES

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
15																			
1	LW-11750	CONNECTING ROD ASSEMBLY	6																
2	LW-13923	BUSHING, Connecting rod, upper	6																
3	75061	BOLT, Connecting rod	12																
4	LW-12186	NUT, Connecting rod bolt	12																
5	LW-13521	BEARING, Connecting rod	12																
6	75089	PISTON, Comp. ratio 8.50:1						6	6	6	6	6	6	6					
	75413	PISTON, Comp. ratio 7.00:1			6	6	6												
7	LW-14078	PIN, Piston	6																
8	60828	PLUG, Piston pin	12																
9	74241	RING, Piston compression	12																
10	73857	RING, Piston, oil regulating, expander type	6																

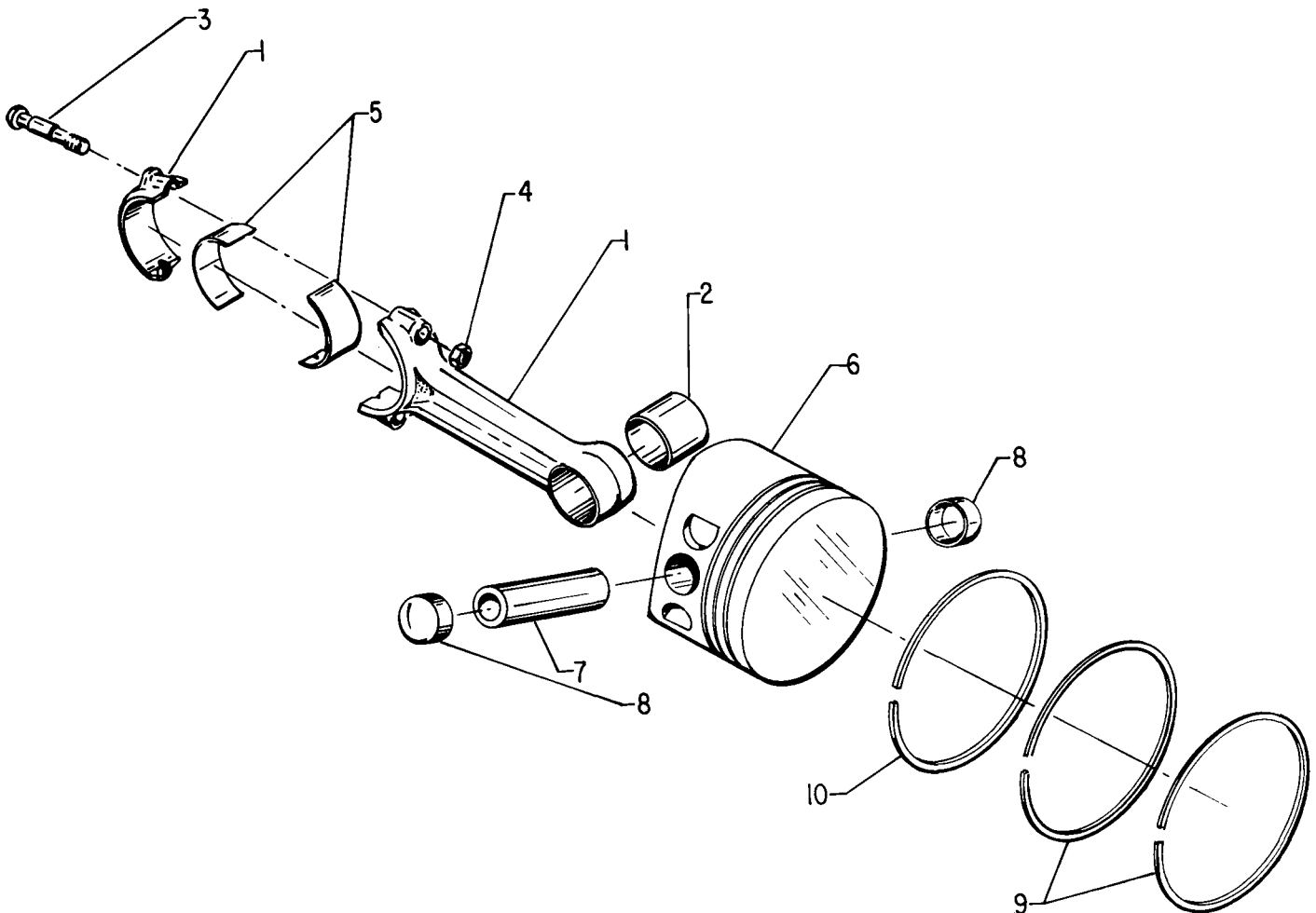


Figure 15

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				B B-6C	D D-6S	E E-6S	F F-4A	G G-4B	H H-4C	I I-4D	J J-4E	K K-4F	L L-4G	M M-4H	N N-4I	O O-4J	P P-4K	Q Q-4L	
16																			
1	LW-12427	CYLINDER AND HEAD ASSY., Nitrided	6																
2	72057	SEAT, Intake valve	6																
3	72058	SEAT, Exhaust valve	6																
4	76943	GUIDE, Valve, intake	6																
5	77160	GUIDE, Valve, exhaust	6																
6	66796	INSERT, Spark plug 18-1.5 mm	12																
7	STD-1872	INSERT, 1/4-27 Heli-coil taper pipe thd.	12																
8	61261	STUD, 5/16-18 x 1-1/2 long	12																
9	68510	STUD, 1/4-20 x 1-1/16 long	6																
10	MS20823-6D	ELBOW, 45° flared tube	6																
11	66610	BUSHING, Rocker shaft	24																
12	1102	PLUG, 1/4-27 NPT, Allen hd.			12	12	12	12	12	12	12	12	6	6					

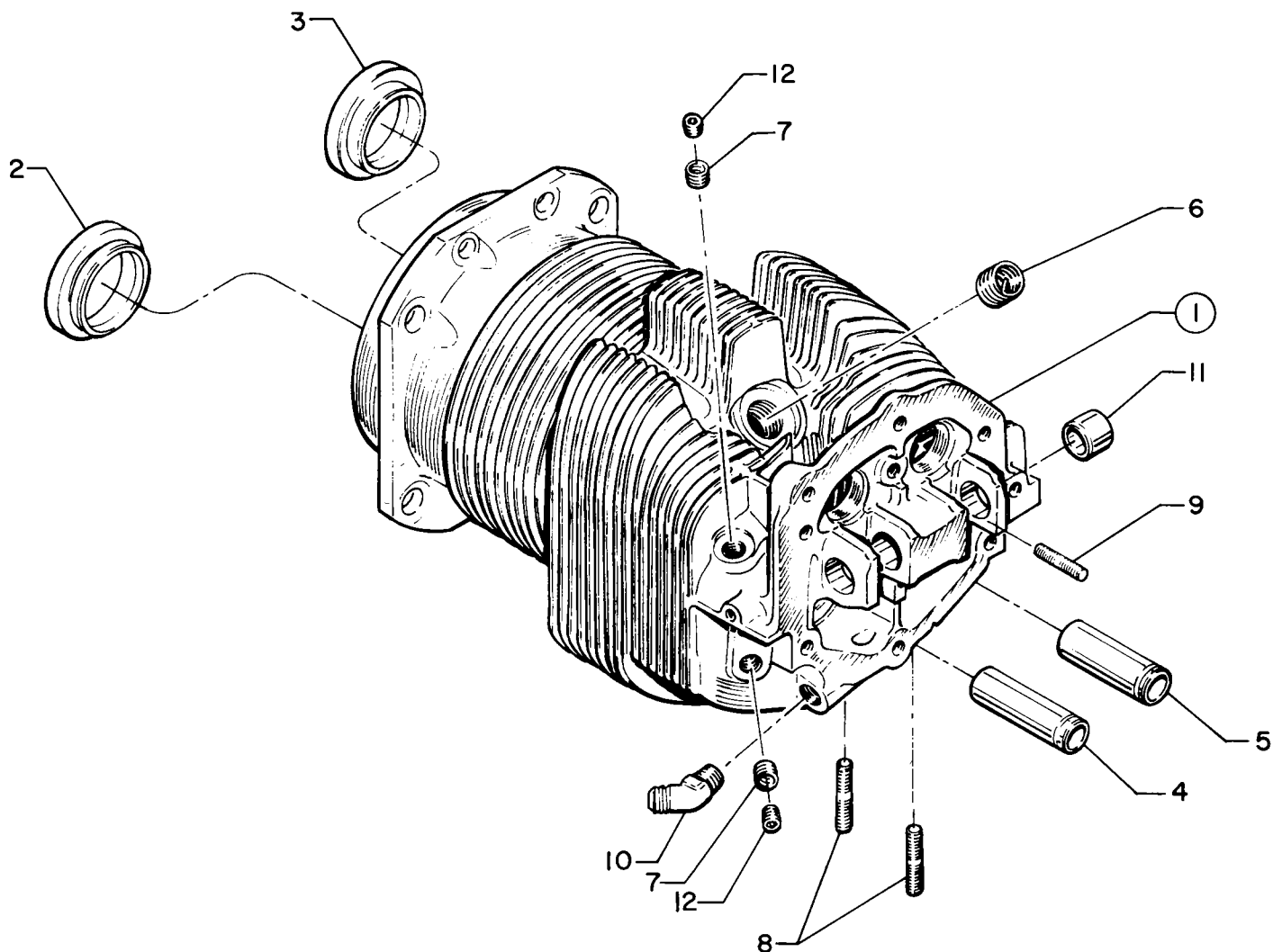


Figure 16

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN

VALVE ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				1	2	3	4	5	6	7	8	9	10	11	12	13	14
17																	
1	73938	VALVE, Intake	6														
2	74541	VALVE, Exhaust (rotator type)	6														
	75068	VALVE, Exhaust (rotator type)				6	6										
3	LW-11795	SPRING, Valve, inner	12														
4	LW-11800	SPRING, Valve, outer	12														
5	65441	SEAT, Valve spring, lower, intake	6														
6	LW-13323	SEAT, Valve spring, lower, exhaust	6														
7	LW-10077	SEAT, Valve spring, upper, intake	6														
8	LW-10076	SEAT, Valve spring, upper, exhaust, (rotator type)	6														
9	60009	KEY, Valve, intake	12														
10	MS13997-3	KEY, Valve, exhaust (rotator type)	12														
11	MS13998-3	CAP, Valve stem, exhaust (rotator type)	6														
12	78290	PLUNGER ASSY., Hydraulic tappet	12														
13	78524	SOCKET, Push rod, hydraulic tappet	12														
14	LW-11485	TUBE, Push rod shroud	12														
15	LW-13428	SPRING, Shroud tube	6														
16	LW-12272	LOCKPLATE, Shroud tube	6														
17	STD-1411	NUT, Plain, 1/4-20	6														
18	62922	SEAL, Shroud tube	12														
19	70310	SEAL, Shroud tube	12														

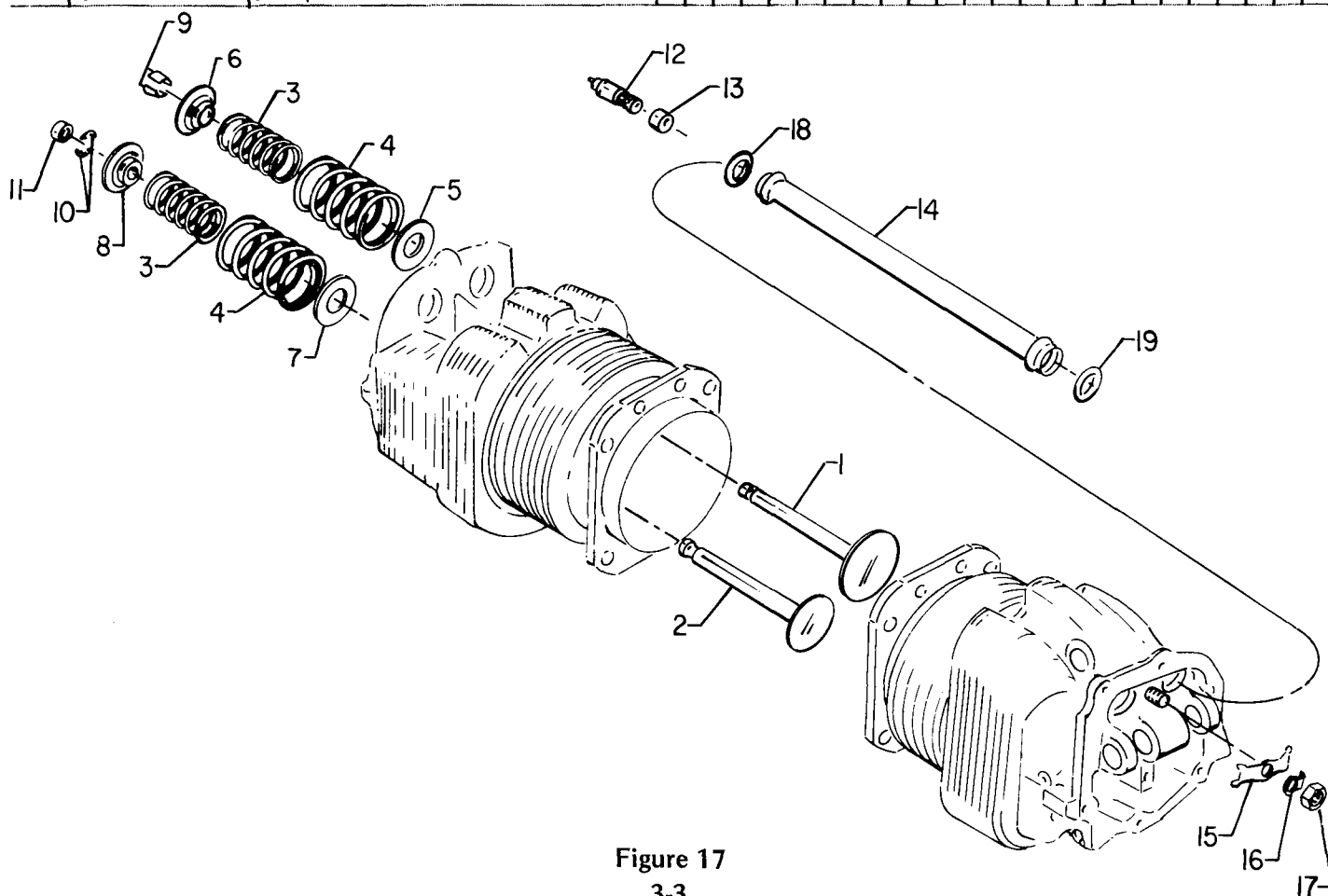


Figure 17

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
18																			
1	73434	ROD ASSY., Push	un																
	73435	ROD ASSY., Push	un																
	73436	ROD ASSY., Push	un																
2	69444	ROCKER ASSY., Valve, intake	6																
3	60398	BUSHING, Valve rocker, intake	6																
4	74636	ROCKER ASSY., Valve, exhaust	6																
5	74637	BUSHING, Valve rocker, exhaust	6																
6	LW-13790	SHAFT, Valve rocker	6																
7	LW-12892	THRUST BUTTON, Rocker shaft	12																
8	75906	GASKET, Rocker box cover	6																
9	61247	COVER, Rocker box	6																
10	STD-1925	SCREW, Self-locking, 1/4-20 x 5/8																	
		long, pan hd.	36																
11	71481	RING, Oil seal, 3/32 dia. x 4-27/32																	
		ID	6																
12	77906	SPACER, 33/64 ID x 7/8 OD x 1/8																	
		thick (rear of crankcase)	2																
13	74887	SPACER, 33/64 ID x 7/8 OD x 3/8																	
		thick (front of crankcase)	2																
14	383-B	NUT, Plain, 3/8-24	24																
15	STD-2090	NUT, Plain, 1/2-20	28																
16	STD-35	WASHER, Plain, 5/16 in.	12																
17	STD-475	WASHER, Internal lock, 5/16 in.	12																
18	STD-1410	NUT, Plain, 5/16 in.	12																
19	65321	GASKET, Exhaust flange	6																
20	61260	FLANGE, Exhaust, stainless			6		6	6								6			

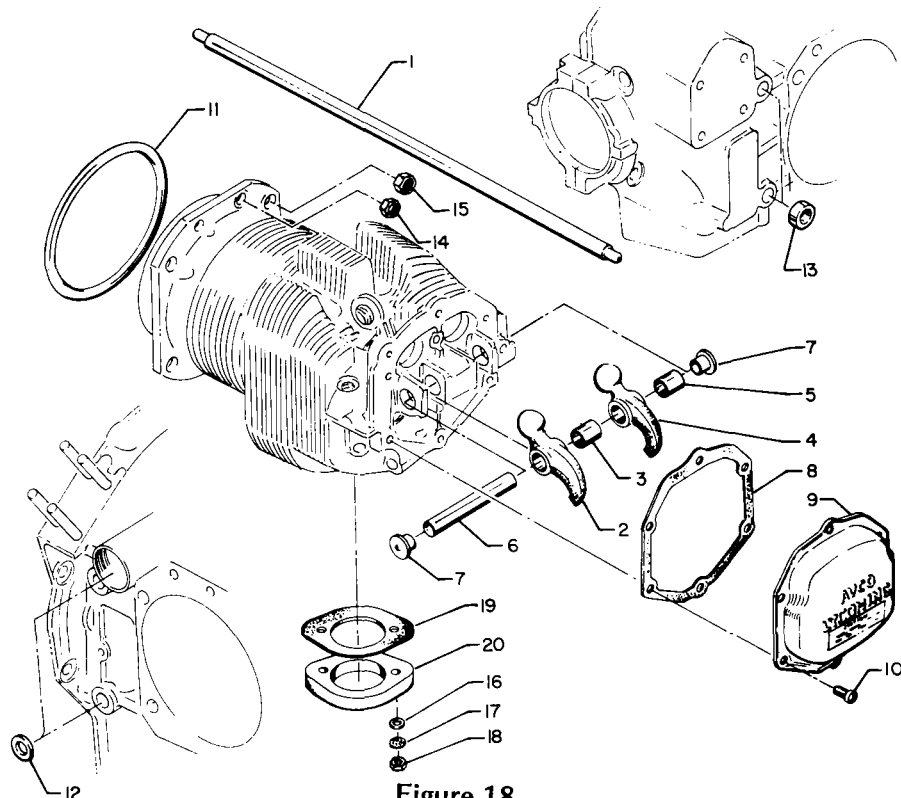


Figure 18
3-4

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
19																			
1	STD-684	NIPPLE, Straight, 3/8 ID hose	6																
2	STD-1821	HOSE, 3/8 ID x 2-1/2 long	6																
3	LW-15592-5-05	CLAMP, Hose	12																
4	68759	TUBE ASSY., No. 1 cylinder head																	
		oil drain	1																
5	71737	TUBE ASSY., No. 2 cylinder head																	
		oil drain	1																
6	68761	TUBE ASSY., No. 3,4,5,6 cylinder																	
		head oil drain	4																
7	75339	BAFFLE ASSY., Intercylinder	4																
8	71611	RETAINER, Intercylinder baffle	4																
9	71610	HOOK, Intercylinder baffle	4																

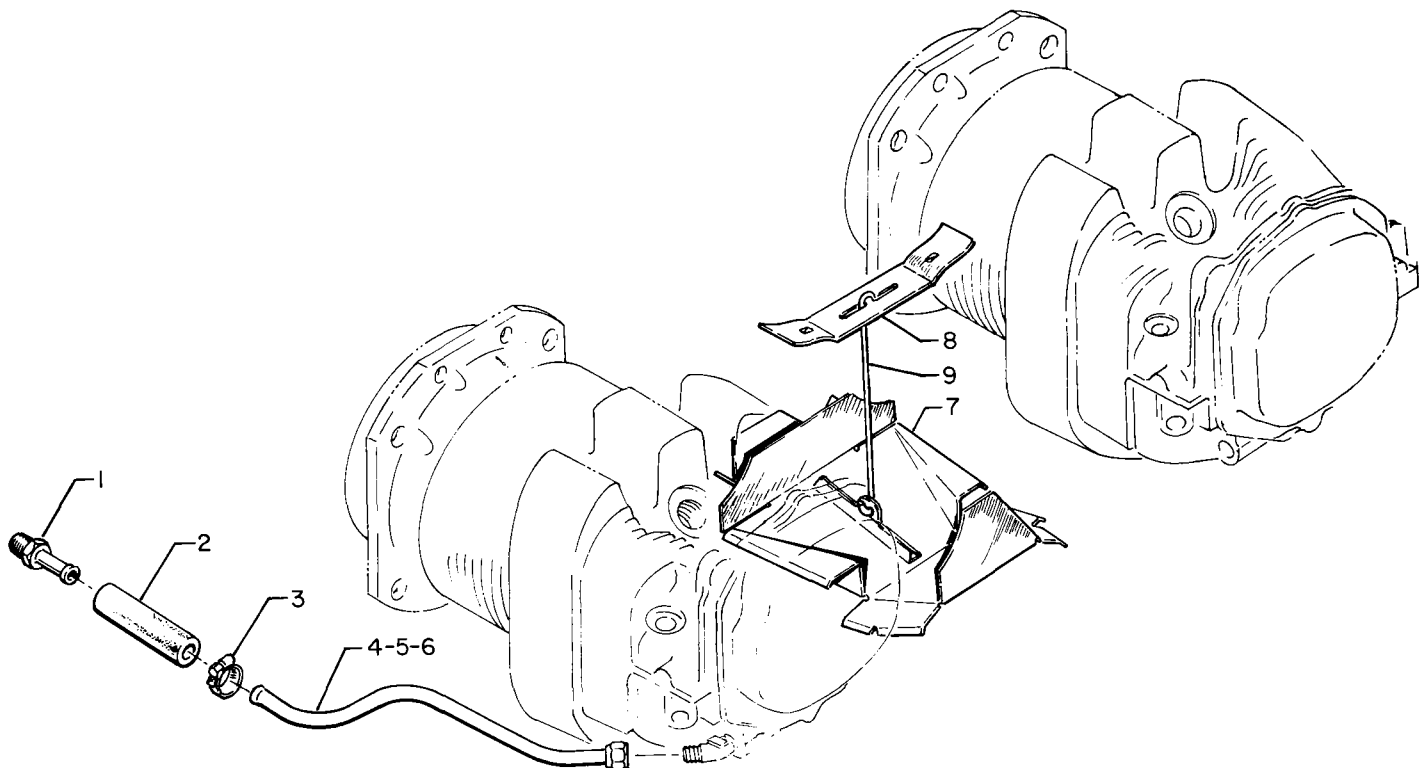


Figure 19
3-5

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

MAGNETO DRIVES AND MAGNETOS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC	60 DEC
20																	
1	LW-12136	CUSHION, Magneto drive		4	4	4	4	4	4	4	4						
2	62224	GASKET, Magneto adapter and magneto		4	2	4	4	4	2	2							
3	LW-12707	ADAPTER, Magneto		2	2	2	2	2	2	2							
4	LW-12681	GASKET, Magneto			2				2	2							
5	73000	COUPLING, Magneto drive		1	1	1	1	1	1	1							
6	73013	COUPLING, Magneto drive (retard breaker)						1									
7	LW-51365-46	MAGNETO		1		1											
	LW-51365-47	MAGNETO, Impulse coupling		1		1											
	LW-163050-9	MAGNETO						1	1								
	LW-163010-10	MAGNETO						1									
	LW-349310-1	MAGNETO, S6LN-1209			1					1							
	LW-349370-4	MAGNETO, S6LN-1227 (35° lag)			1					1	1						
	LW-51365-57	MAGNETO, Impulse coupling S6LN-21				1		1									
	LW-349310-8	MAGNETO, S6LN-1209, electric tach. pick-up								1							
8	75965	CLAMP, Magneto			4					4	4						
9	STD-1727	WASHER, 3/4 OD x 21/64 ID x 1/8 thick			4		4	4	4								
10	STD-475	WASHER, 5/16 internal lock			4	4	4	4	4	4	4						
11	STD-1410	NUT, 5/16-18 plain			4	4	4	4	4	4	4						
12	LW-52305-1	KIT ASSY., Magneto ground terminal			2		2										
	LW-157209	KIT, Magneto ground terminal						2									
	LW-157208	KIT, Magneto retard terminal						1									
13	67542	BEARING, Ball			2	2	2	2	2	2	2						
14	74830	GEAR, Retainer magneto drive			2	2	2	2	2	2	2						

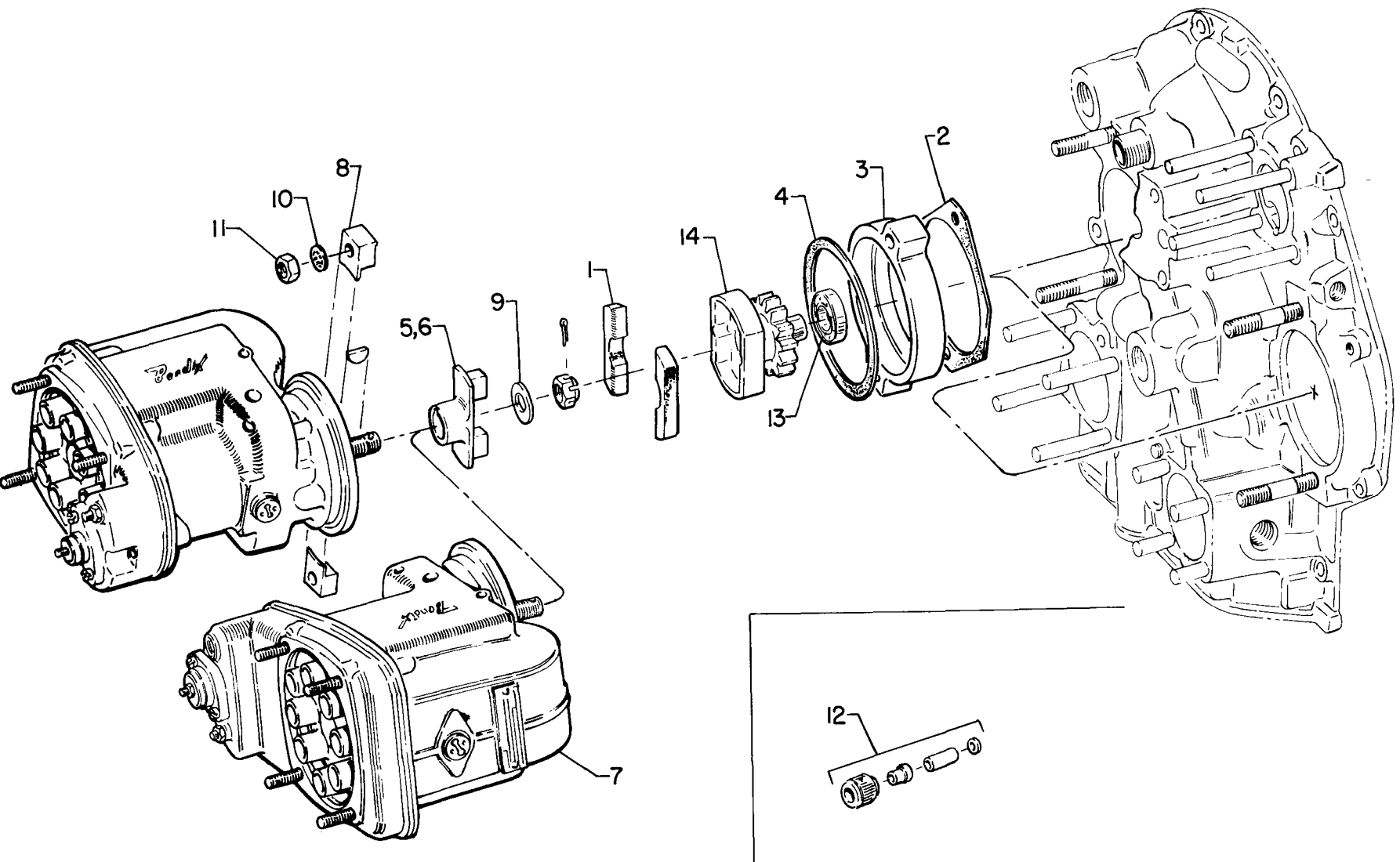


Figure 20 - Magneto Drives and Magnetos
4-2

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

MAGNETO DRIVES, MAGNETOS, LEAD ASSEMBLIES AND SPARK PLUGS (DUAL MAGNETO)

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				1	2	3	4	5	6	7	8	9	10	11	12	13	14
21																	
1	LW-13642	GEAR, Retainer magneto drive													1	1	
2	LW-13641	CUSHION, Magneto drive													2	2	
3	LW-12681	GASKET, Magneto													1	1	
4	LW-385146-106	MAGNETO IGNITION SYSTEM (D6LN-2230)													1	1	
5	LW-382610-11	MAGNETO, Ignition													1	1	
6	LW-384602-307	HARNESS, Ignition													1	1	
7	75965	CLAMP, Magneto													2	2	
8	STD-475	WASHER, 5/16 internal lock													2	2	
9	STD-1410	NUT, 5/16-18 plain													2	2	
10	STD-8	WASHER, 1/4 plain													13	13	
11	LW-620026-2	CLIP, One wire for 1/4 screw (bottom leads)													4	4	
12	LW-14057	CLIP, One wire for 1/4 screw (top lead)													2	2	
13	STD-8	WASHER, 1/4 plain													1	1	
14	LW-320298-2	CLIP, Two wire for 1/4 screw (bottom leads)													1	1	
15	LW-14060	CLIP, Two wire for 1/4 screw (top lead)													2	2	
16	LW-620029-6	CLIP, Three wire for no. 10-32 screw (bottom leads)													1	1	
17	62255	CLIP, Three wire for 1/4 screw (bottom leads)													1	1	
18	LW-620037-4	CLIP, Six wire for no. 10-32 screw													1	1	
	LW-620036-4	CLIP, Six wire for no. 10-32 screw													1	1	
19	73050	CLIP, Ignition harness													1	1	
20	LW-14875	BRACKET, Extension													1	1	
21	STD-692	SCREW, No. 10-32													2	2	
22	STD-670	NUT, Self-locking													2	2	
23	MS21919-G12	CLIP, 3/4 dia. with no. 10 screw													1	1	
24	76734	ZIP STRAP													26	26	
25	STD-696	WASHER, Plain, 1/4 in. (thin)													un	un	
26	STD-1874	SCREW, 1/4-20 x 13/16 long													7	7	
27	STD-1925	SCREW, Self-locking, 1/4-20													4	4	
28	10-720631-48*	LEAD ASSY., 48 in. long													un	un	
29	10-720631-78*	LEAD ASSY., 78 in. long													un	un	
30	1182-D4	SPARK PLUG, Champion RHM38E													12	12	
31	LW-382698	KIT, Magneto ground terminal													2	2	
	LW-157208	KIT, Magneto retard terminal													1	1	

* - Replacement lead furnished in 48 in.
or 78 in. length with spark plug end
assembled. Lead includes eyelet and
ferrule for assembly to magneto plate.

NOTE

The above spark plugs are those used in current production only; this list does not include additional spark plugs that are approved for use in these engines. See latest edition of Service Instruction No. 1042 for complete listing of all approved spark plugs.

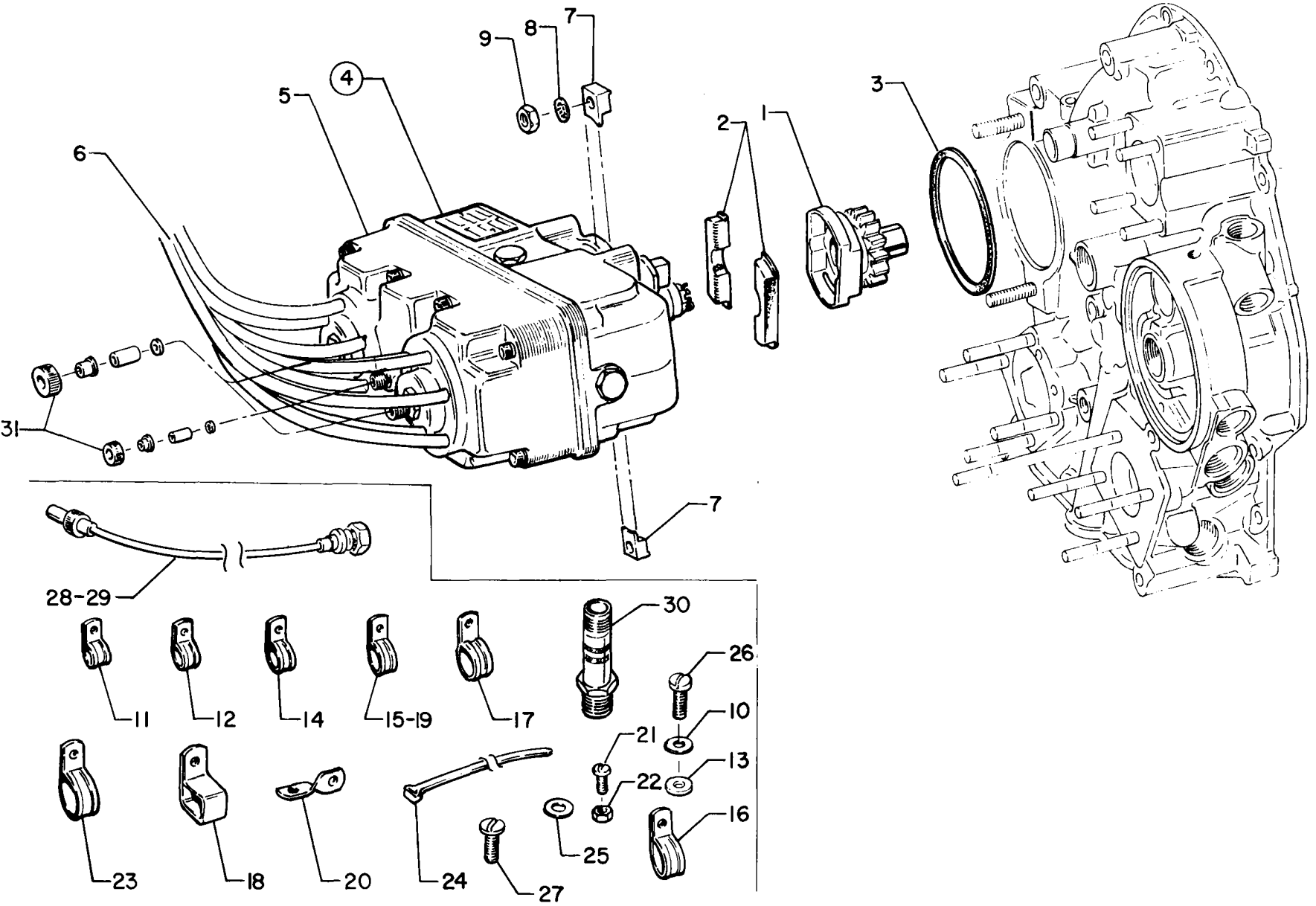


Figure 21 - Magneto Drives, Magnetos, Lead Assemblies and Spark Plugs (Dual Magnetos)
44

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

IGNITION HARNESS, LEAD ASSEMBLY AND SPARK PLUGS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
22																			
1	LW-M-2457	HARNESS ASSY., Left magneto				1						1	1						
	LW-M-2463	HARNESS ASSY., Left magneto			1		1	1	1										
2	LW-M-2458	HARNESS ASSY., Right magneto				1						1	1						
	LW-M-2464	HARNESS ASSY., Right magneto			1		1	1	1										
3	LW-M-2376	PLATE, Spark plug cable			2	2	2	2	2	2	2								
4	72351	SCREW, Self-locking, no. 10-32			8		8	8	8										
5	LW-14057	CLIP, One wire for 1/4 screw				2						2	2						
6	LW-14060	CLIP, Two wire for 1/4 screw				2						2	2						
7	72255	CLIP, Three wire for 1/4 screw			2	5	2	2	2	5	5								
8	LW-320472-4	CLIP, Six wire for no. 10 screw				1						1	1						
9	71910	CLAMP, 1-3/4 ID (offset)			6		6	6	6										
10	STD-692	SCREW, No. 10-32 x 1/2 long				4						4	4						
11	STD-553	SCREW, No. 6-32 x 1/2 long			6		6	6	6										
12	STD-670	NUT, Self-locking, no. 10-32				4						4	4						
13	AN365-632A	NUT, Self-locking, No. 6-32			6		6	6	6										
14	72815	BRACKET, Twist				4						4	4						
15	STD-8	WASHER, Plain, 1/4 in.				10						10	10						
16	STD-160	WASHER, Internal lock, 1/4 in.				5						5	5						
17	STD-696	WASHER, Plain, 1/4 in.				un						un	un						
18	STD-1874	SCREW, 1/4-20				5						5	5						
19	76734	ZIP STRAP				11						11	11						
20	72351	SCREW, Self-locking, no. 10-32				8						8	8						
21	M-1985-48*	LEAD ASSY., 48 in. long			un	un	un	un	un	un	un								
22	M-1985-72*	LEAD ASSY., 72 in. long			un	un	un	un	un	un	un								
23	1182-B3	SPARK PLUG, (Champion REM-40E)					12	12	12	12	12								
	1182-B6	SPARK PLUG, (Champion EM41E)			12	12													

* - Replacement lead furnished in 48 in. or 72 in. length with spark plug end assembled. Lead includes eyelet and ferrule for assembly to magneto plate.

NOTE

The above spark plugs are those used in current production only; this list does not include additional spark plugs that are approved for use in these engines. See latest edition of Service Instruction No. 1042 for complete listing of all approved spark plugs.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

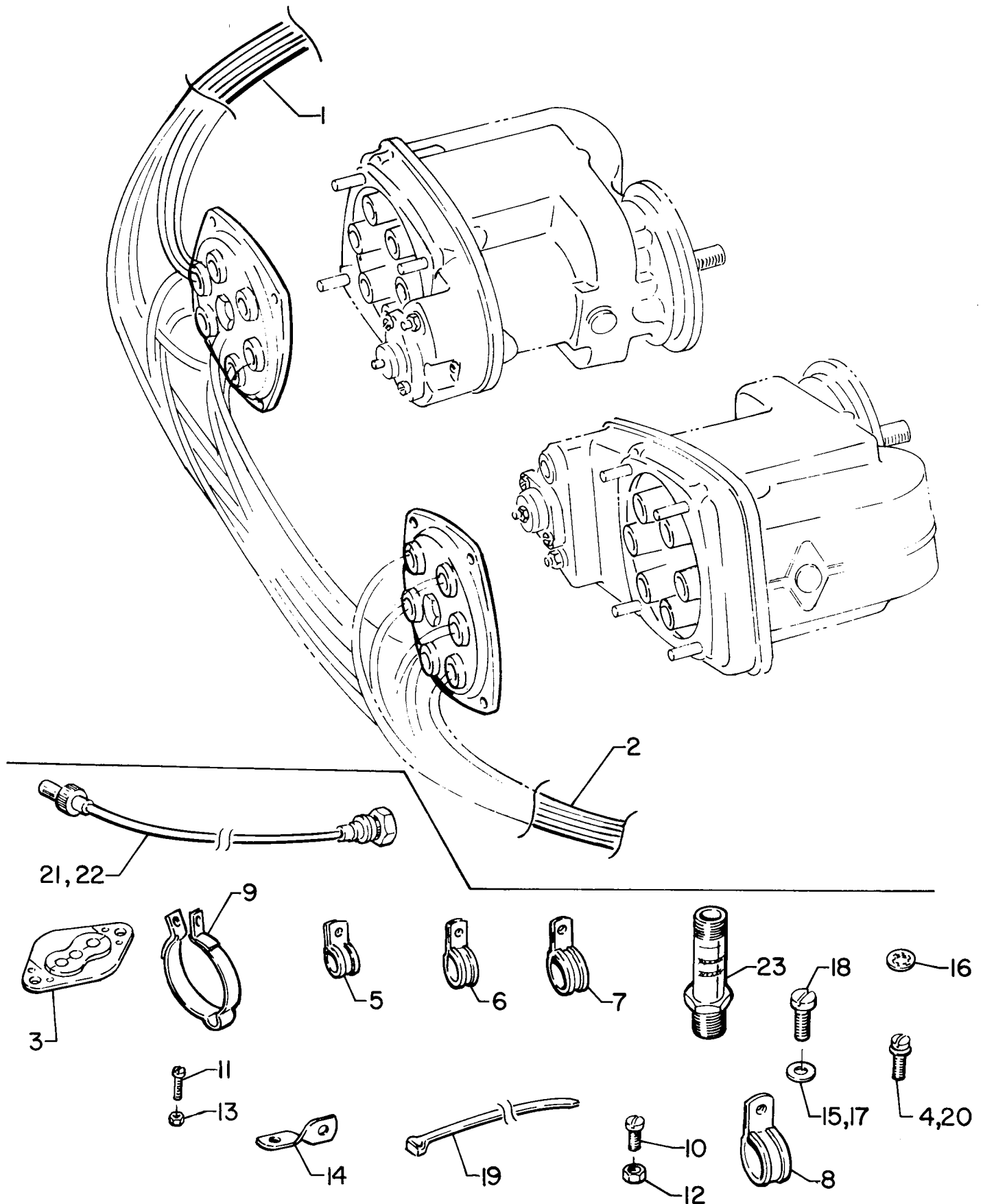


Figure 22 - Ignition Harness, Lead Assembly and Spark Plugs

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM

VOLTAGE REGULATOR, RELAYS AND ALTERNATOR DRIVE BELTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY											
				1	2	3	4	5	6	7	8	9	10	11	12
1	LW-10185	REGULATOR, Voltage, 12V., full transistor (VSF-7203)				1		1							
	LW-10179	REGULATOR, Voltage, 24V., full transistor (VSF-7403)												1	
2	78059	OVERVOLTAGE RELAY, 12V., (X-17621)				1		1							
	78060	OVERVOLTAGE RELAY, 24V., (X-17620)								1				1	
3	76026	BELT, Alternator drive (3/8 wide)				1		1	1		1				
	78877	BELT, Alternator drive 3.63:1 ratio						1			1	1	1		

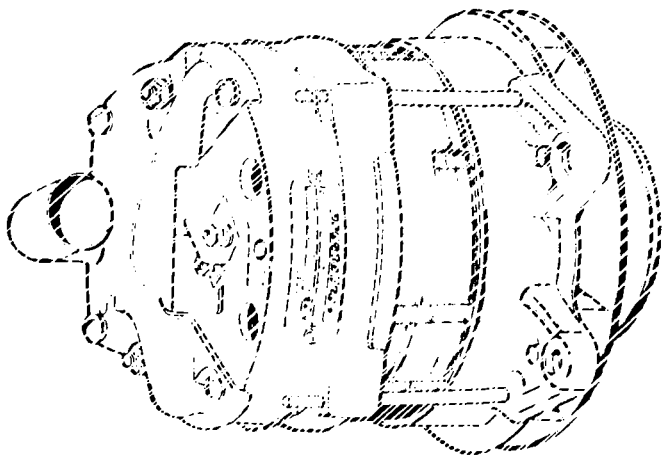
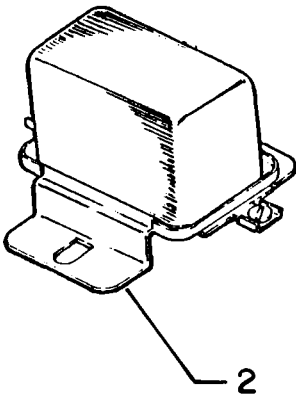
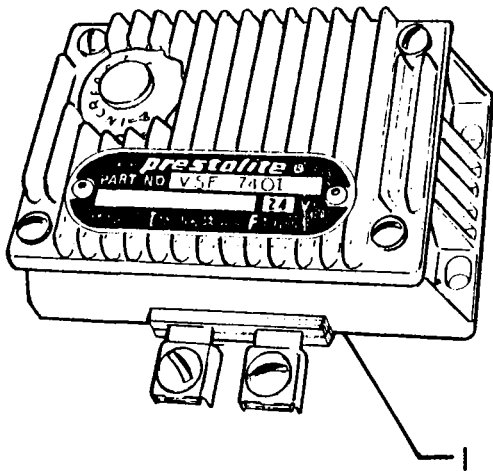


Figure 23
5-1

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM

ALTERNATORS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				12V	24V	28V	36V	48V	54V	60V	72V	84V	96V	108V	120V	132V	144V	156V	168V
24	LW-14316	ALTERNATOR, 12V. - 70 Amp. (externally grounded) (ALX-8421)			1				1										
	LW-14319	ALTERNATOR, 24V. - 50 Amp. (externally grounded) (ALT-8421)								1		1							
	LW-14324	ALTERNATOR, 24V. - 70 Amp. (externally grounded) (ALU-8421)								1									
	LW-14315	ALTERNATOR, 12V. - 60 Amp. (3.63:1 ratio) (ALY-6427)							1					1					
	LW-14322	ALTERNATOR, 24V. - 50 Amp. (externally grounded) (3.63:1 ratio)														1			

NOTE

See the latest edition of Service Instruction No. 1154 for complete list of FAA approved starters, generators, alternators, regulators and relays.

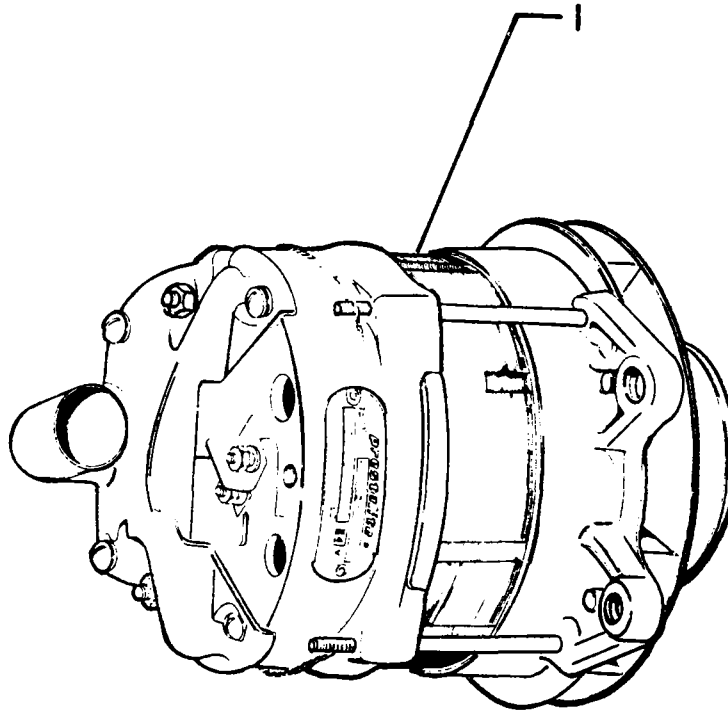


Figure 24

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM

ALTERNATOR MOUNTING AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
25																			
1	LW-13039	BRACKET, Alternator			1	1	1	1		1	1	1	1						
2	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing			1	1	1	1		1	1	1	1						
3	STD-1838	BOLT, 5/16-18 x 15/16 long, hex hd.			2	2	2	2		2	2	2	2						
4	75380	LINK, Alternator, adjusting			1	1	1	1		1	1	1	1						
5	STD-35	WASHER, Plain, 5/16 in.			1	1	1	1		1	1	1	1						
6	STD-1817	BOLT, 5/16-18 x 3/4 long, hex hd. dr.			1	1	1	1		1	1	1	1						
7	STD-1727	WASHER, Plain, 3/4 OD x 11/32 ID x 1/8 thick			1	1	1	1		1	1	1	1						
8	STD-1817	BOLT, 5/16-18 x 3/4 long, hex hd. dr.			1	1	1	1		1	1	1	1						
9	74323	STRUT, Alternator support			1	1	1	1		1	1	1	1						
10	STD-1817	BOLT, 5/16-18 x 3/4 long, hex hd. dr.			1	1	1	1		1	1	1	1						
11	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 thick			1	1	1	1		1	1	1	1						
12	AN6-14	BOLT, 3/8-24 x 1-19/32 long, hex hd., drilled end			1	1	1	1		1	1	1	1						
13	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 thick			un	un	un	un		un	un	un	un						
14	STD-872	NUT, Slotted, 3/8-24			1	1	1	1		1	1	1	1						
15	STD-713	PIN, Cotter, 3/32 dia. x 3/4 long			1	1	1	1		1	1	1	1						
16	AN6-13	BOLT, 3/8-24 x 1-29/64 long, hex hd., drilled end				1					1								
	AN6-16	BOLT, 3/8-24 x 1-53/64 long, hex hd., drilled end			1		1	1		1		1	1						
17	76534	SHIM, 1-1/8 OD x 13/32 ID x .005 thick			un	un	un	un		un	un	un	un						
18	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 thick			un	un	un	un		un	un	un	un						
19	STD-872	NUT, Slotted, 3/8-24			1	1	1	1		1	1	1	1						
20	STD-713	PIN, Cotter, 3/32 dia. x 3/4 long			1	1	1	1		1	1	1	1						

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

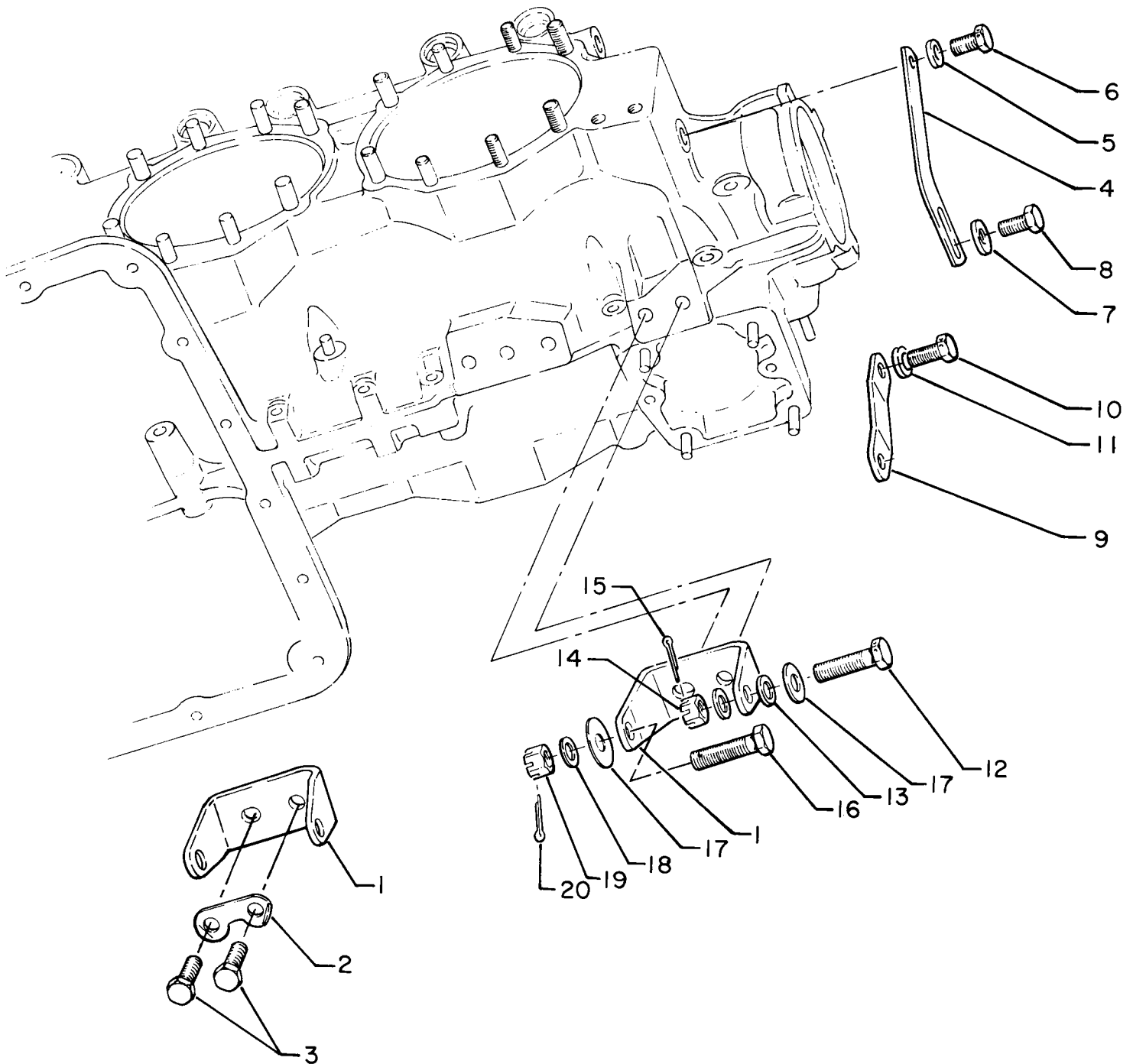


Figure 25 - Alternator Mounting and Attaching Parts

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM

STARTING MOTORS AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V
26																			
1	LW-15571	STARTER, 12V., 12/14 pitch pinion, 3.38:1 internal reduction (MZ-4227)				1	1	1		1				1					
	LW-15572	STARTER, 24V., 12/14 pitch pinion, 3.38:1 internal reduction (MHB-4016)								1		1		1	1				
2	STD-35	WASHER, Plain, 5/16 in.	4																
3	STD-475	WASHER, Internal lock, 5/16 in.	4																
4	STD-2156	BOLT, Hex hd., 5/16-18 x 1-5/32 long	1																
5	STD-1410	NUT, Plain, 5/16-18	3																
6	LW-12083	SWITCH, Magnetic, 12V. (SAZ-4201E-1)		1		1													
	LW-12085	SWITCH, Magnetic, 24V. (SAZ-4401C)						1		1		1	1						

NOTE

See the latest edition of Service Instruction No. 1154 for complete list of FAA approved starters, generators, alternators, regulators and relays.

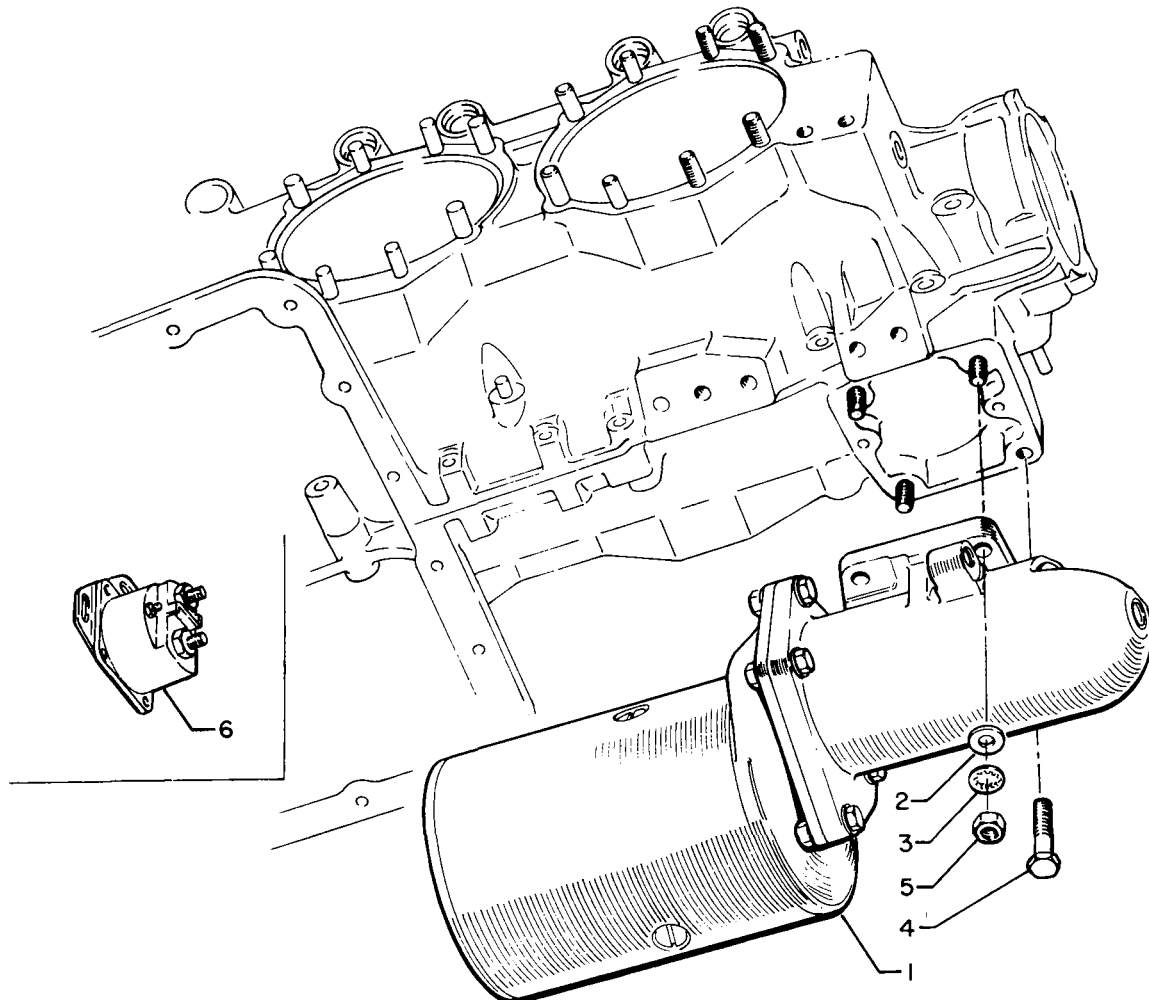


Figure 26
5-5

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM

OIL SUMP ASSEMBLY AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				B	B	B	B	E	E	E	E	G	H	I	J	K	L	M	N
27																			
1	LW-13306	GASKET, Oil sump	1																
2	72056	SUMP ASSEMBLY	1																
3	71699	CONNECTION, Intake pipe	6																
4	25C-11	STUD, 1/4-20 x 1-3/8 long	14																
5	31C-15	STUD, 5/16-18 x 1-7/8 long	4																
6	38-15	STUD, 3/8-16 x 1-7/8 long	8																
7	STD-1173	INSERT, 1/4-20 Heli-coil x 1/2 long	4																
8	STD-8	WASHER, Plain, 1/4 in.	34																
9	STD-160	WASHER, Internal lock, 1/4 in.	27																
10	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex hd.	7																
11	STD-1688	BOLT, 1/4-20 x 1.00 long, hex hd.	6																
12	STD-1411	NUT, Plain, 1/4-20	21																
13	STD-551	PLUG, 1/2-14 NPT, Sq. hd., drilled																	
	AN932-5	PLUG, 1/2-14 NPT, Allen hd.																	
14	61548	NAMEPLATE	1																
15	STD-1901	DRIVE STUD, No. 4 x 3/16 long, rd. hd.	4																

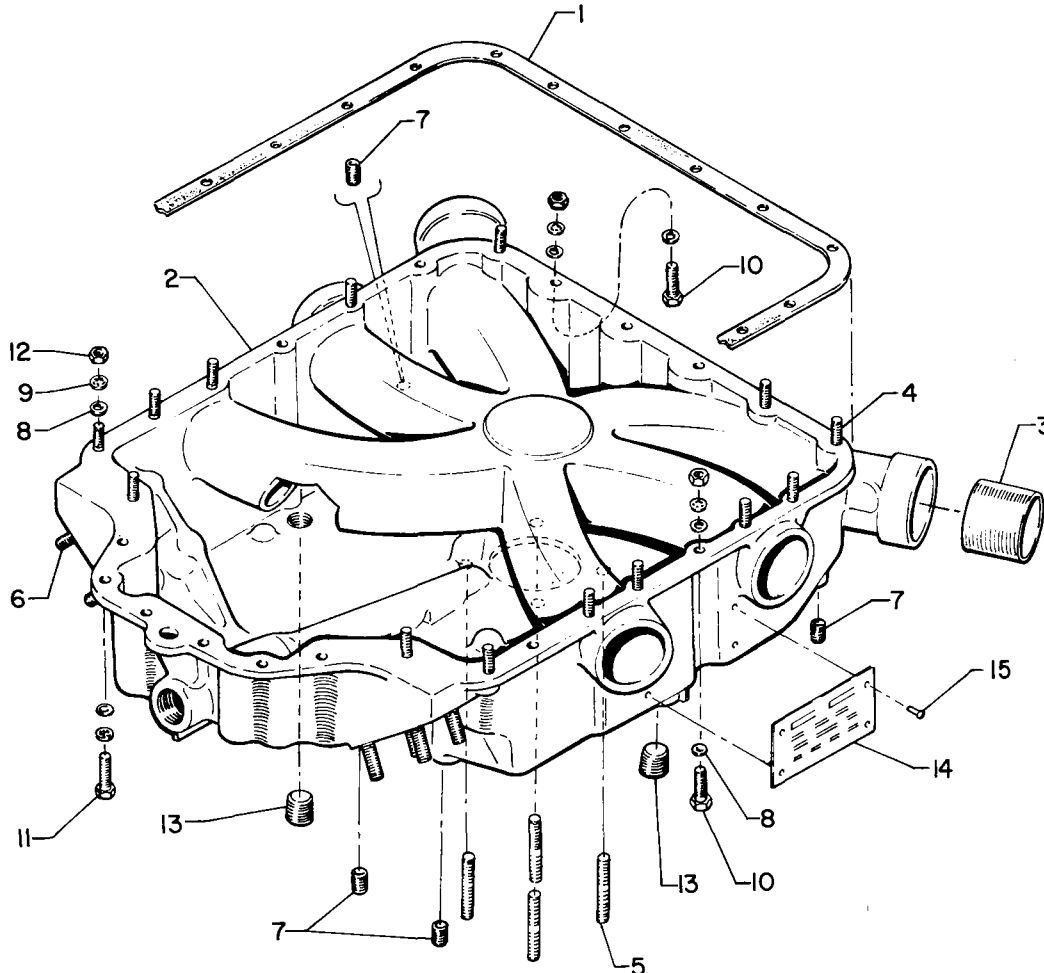


Figure 27

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM

OIL SUCTION SCREEN

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY											
				BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM
28															
1	70484	SCREEN, Oil suction	1												
2	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1												
3	LW-12545	PLUG, 5/8 hex hd. x 1.00-20 thd.	1												

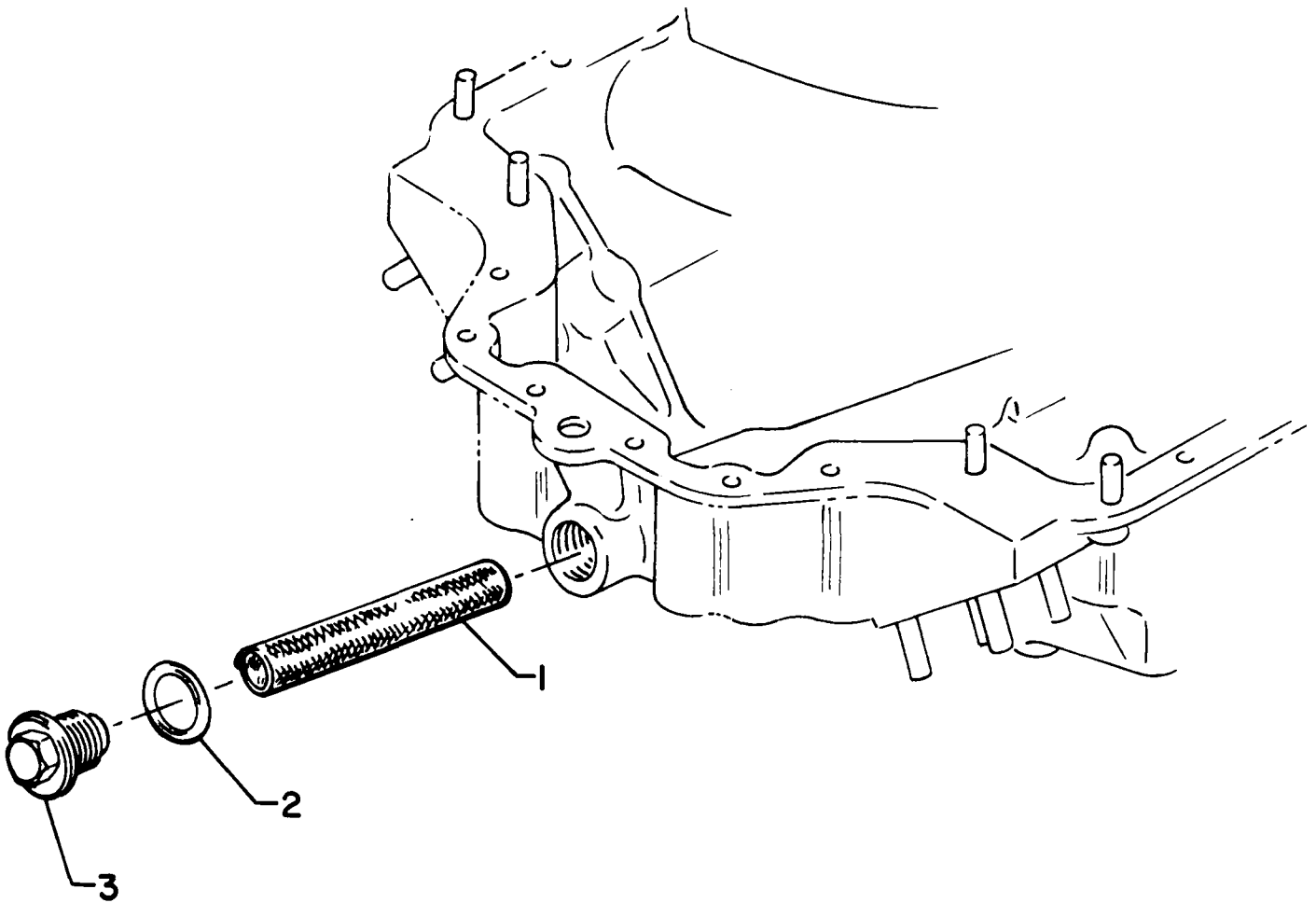


Figure 28
6-2

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM

INTAKE PIPE AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1B20	1B20C	1B20D	1B20E	1B20F	1B20G	1B20H	1B20I	1B20J	1B20K	1B20L	1B20M	1B20N	1B20O	1B20P	1B20Q
1	70485	PIPE, Intake	6																
2	89603	HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4 long	6																
3	LW-15592-8-28	CLAMP, Hose	12																
4	71973	GASKET, 2 bolt flange, 1-7/8 ID	6																
5	73346	FLANGE, Intake pipe, upper	6																
6	STD-8	WASHER, Plain, 1/4 in.	12																
7	STD-160	WASHER, Internal lock, 1/4 in.	12																
8	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex hd.	12																

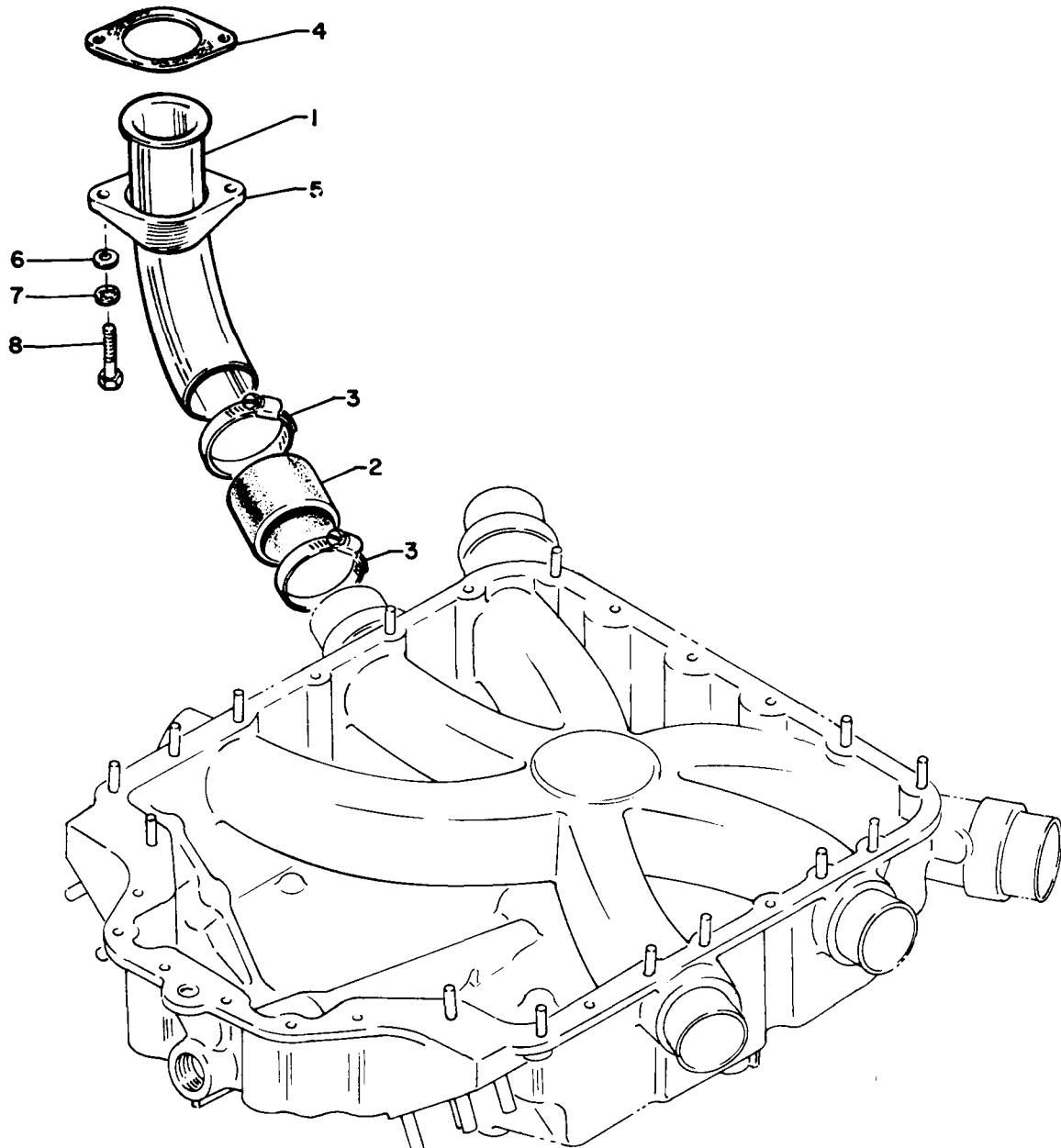


Figure 29

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM

CARBURETORS AND RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				10-4404	10-4404-1	10-5054	10-5054-1	10-5054-2	10-5054-3	10-5054-4	10-5054-5	10-5054-6	10-5054-7	10-5054-8	10-5054-9	10-5054-10	10-5054-11
30																	
1	66224	GASKET, Carburetor	1														
2	72740	CARBURETOR, (10-4404)															
	74121	CARBURETOR, (10-4404-1)															
	LW-10540	CARBURETOR, (10-5054)															
3	STD-35	WASHER, Plain, 5/16 in.	4														
4	STD-1410	NUT, Plain, 5/16-18	4														
5	STD-1763	LOCKNUT, Palnut, 5/16 in.	4														

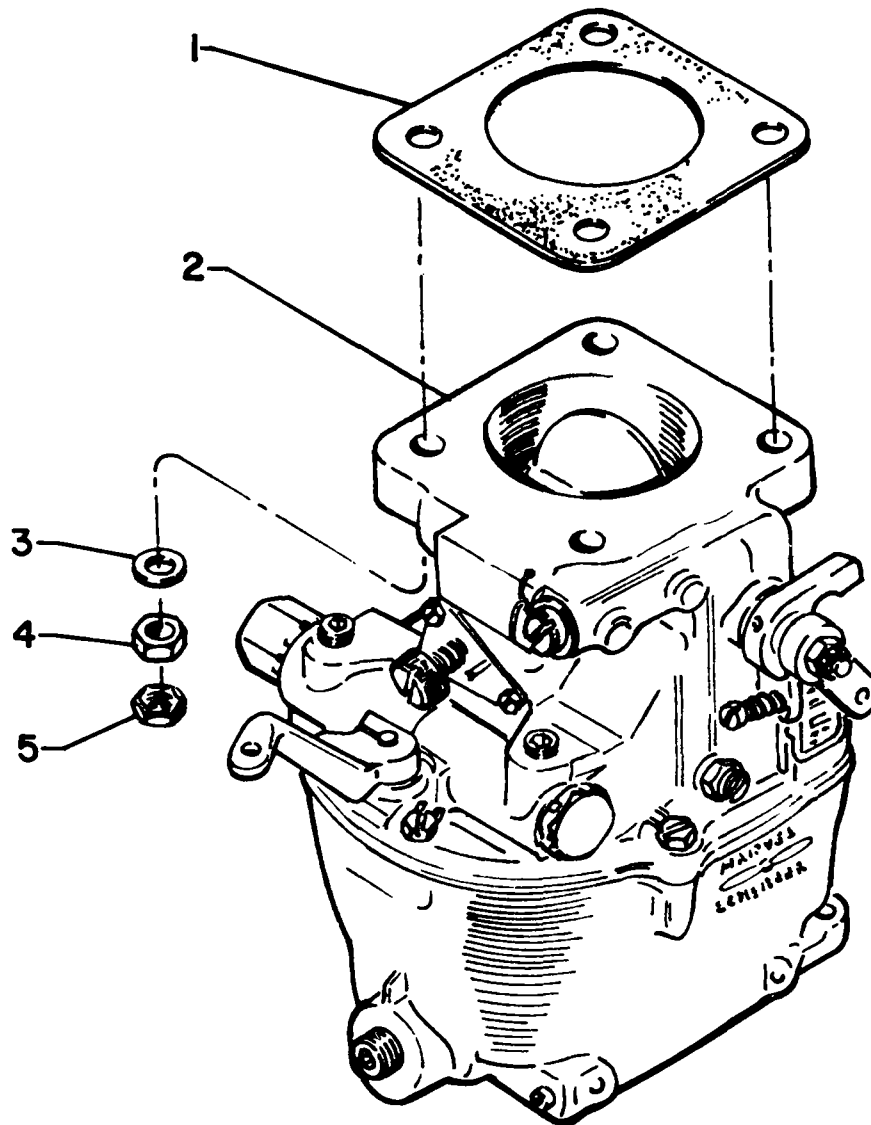


Figure 30

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM

PRIMING SYSTEM

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
31																			
1	LW-12098-1-153	TUBE ASSY., Primer, cyl.no.3																	1
2	LW-12098-1-183	TUBE ASSY., Primer, cyl.no.4																	1
3	LW-12098-1-116	TUBE ASSY., Primer, cyls.no. 5 and 6																	2
4	LW-12098-0-100	TUBE ASSY., Primer, inter., right																	1
5	LW-12098-0-116	TUBE ASSY., Primer, inter., left																	1
6	LW-12293	CLIP, Primer line																	4
7	71910	CLAMP, Primer line																	4
8	STD-553	SCREW, No. 6-32 x 1/2 long, rd. hd.																	4
9	AN365-632A	NUT, No. 6-32 self-locking																	4
10	STD-853	TEE, Union, 1/4 tube																	3
11	74225	NIPPLE ASSY., Primer																	4
12	1102	PLUG, Allen, 1/4-27 (assemble in no. 1 and 2 cyl. hds.																	2

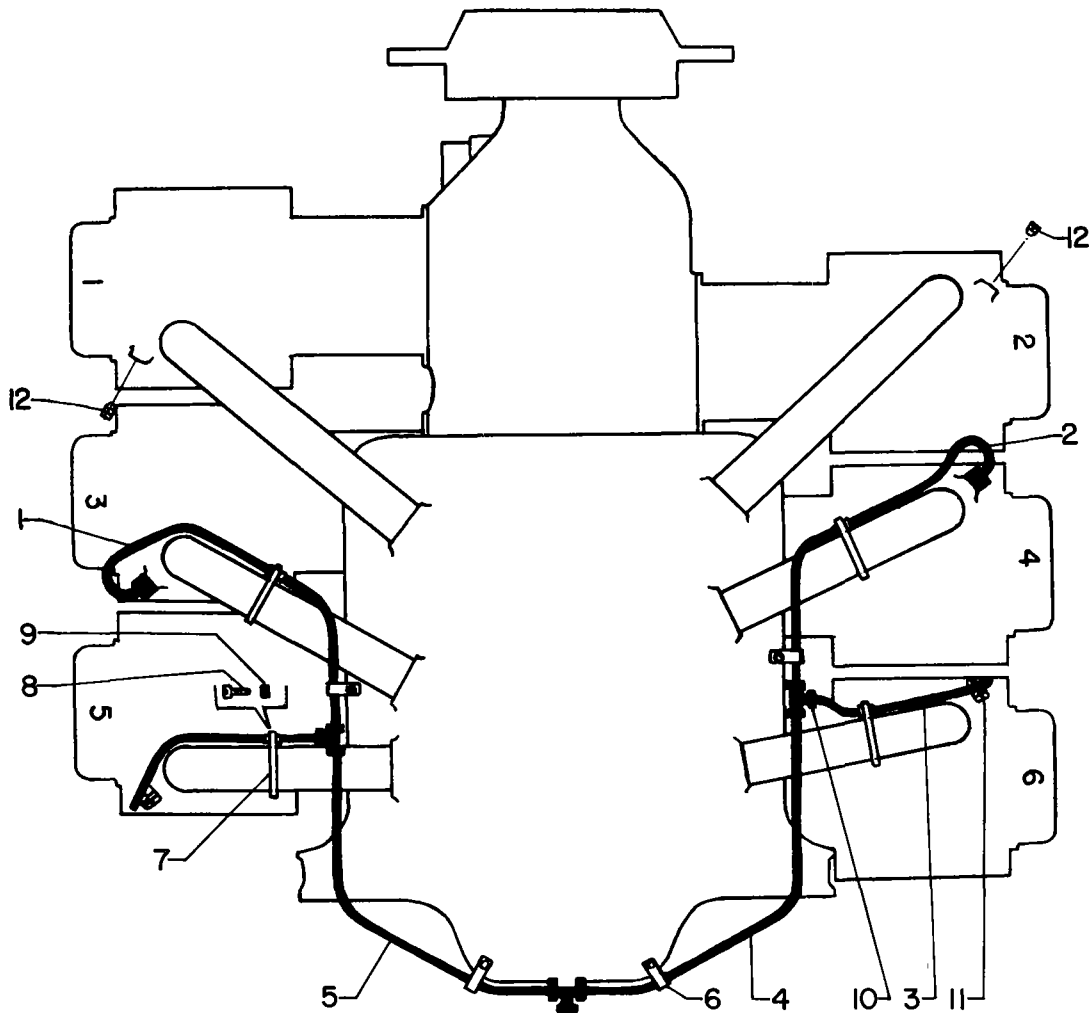


Figure 31

LYCOMING 0-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION

SEAL AND GASKET SET
0-540-B, -E, -G, -H SERIES

PART NUMBER	DESCRIPTION	QTY. PER ENG.
71569-1	SEAL AND GASKET SET	1
STD-111	GASKET	1
STD-208	SEAL, Oil	2
STD-213	SEAL, Oil	1
STD-294	GASKET, Annular	2
STD-1045	GASKET, Annular	1
1691-C	GASKET, Fuel pump	1
8313	GASKET, Vacuum pump	2
60096	GASKET, Fuel pump	1
LW-14260	SEAL, Tach. drive oil	1
61173	GASKET, Oil press. hsg.	1
61183	GASKET, Accy. adapter	1
62224	GASKET, Mag. adapter	4
62922	SEAL, Shroud tube	12
66224	GASKET, Carburetor	1
67516	LOCKPLATE, Crankshaft gear	1
68315	GASKET, Accy. drive adapter	1
LW-12272	LOCKPLATE, Shroud tube	6
69164	GASKET, Fuel pump adapter	1
69551	GASKET, Accy. dr. adapter	1
70310	SEAL, Shroud tube	12
70455	GASKET	1
70457	GASKET	1
71193	BOX, Set-up	1
71481	RING, Oil seal	6
71667	LOCKPLATE, Fuel pump idler gear	1
71973	GASKET, 2 bolt flange	6
72053	GASKET, Governor	1
72059	GASKET	1
72075	RING, Oil seal	8
72078	LOCKPLATE, Cam gear	2
72091	RING, Oil seal	2
72210	GASKET	1
72220	GASKET, Oil level gage	1
72312	RING, Oil seal	1
LW-13306	GASKET, Oil sump	1
73383	LOCKPLATE, Generator bracket	2
73818	GASKET, Accy. hsg.	1
74305	SEAL	1
75906	GASKET, Rocker box cover	6
76510	GASKET	1
LW-12795	GASKET	1
76940	SEAL, Crankshaft oil	1
LW-12681	GASKET	2
LW-15628	SEAL, Crankshaft	1
LW-13792	SEAL, Crankshaft oil	1
69345	SPACER	6
LW-14995	SPRING	6
MS16625-1081	RING, Internal retaining	1
65321	GASKET	6

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION

SEAL AND GASKET SET
O-540-B, -E, -G, -H SERIES

PART NUMBER	DESCRIPTION	QTY. PER ENG.
LW-13378	SEAL AND GASKET SET	1
AN123857	GASKET, Hydraulic pump	1
MS29512-10	SEAL, Oil	1
MS16625-1081	RING, Internal retaining	1
STD-111	GASKET, Oil suction screen	1
STD-208	SEAL, Oil	1
STD-1045	GASKET, Oil press. relief valve	1
8313	GASKET, Vacuum and hydraulic pump	2
20415	GASKET, Hydraulic pump	1
60096	GASKET, Fuel pump	1
LW-14260	SEAL, Tach. drive	1
62922	SEAL, Shroud tube	12
65321	GASKET, Exhaust flange	6
66224	GASKET, Carburetor	1
70310	SEAL, Shroud tube	12
70455	GASKET, Prop. dr. gear plug	1
70457	GASKET, Oil filler ext.	1
71481	RING, Cyl. base seal	6
LW-14820	RING, Internal retaining	8
71973	GASKET, Intake pipe flange	6
72053	GASKET, Governor	1
72059	GASKET, Oil level gage	1
72091	RING, Oil seal	2
72220	GASKET, Oil level gage	1
72312	RING, Oil level gage	1
73383	LOCKPLATE	1
73818	GASKET, Accy. hsg.	1
75906	GASKET, Rocker box cover	6
LW-15628	SEAL, Crankshaft oil	1
LW-10332	LOCKPLATE, Crankshaft gear	1
LW-13792	SEAL, Crankshaft	1
LW-12272	LOCKPLATE, Shroud tube	6
LW-14995	SPRING, Shroud tube	6
LW-12681	GASKET, Magneto	1
LW-13306	GASKET, Oil sump	1
71193	BOX	1

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION

CYLINDER, PISTON AND RING ASSY.
O-540-B SERIES
(NITRIDED CYLINDER, HALF-WEDGE RINGS)

PART NUMBER	DESCRIPTION	QTY. PER ENG.
LW-12742	CYLINDER, PISTON AND RING ASSY.	
MS13997-3	KEY, Valve	2
MS13998-3	CAP, Valve stem	1
STD-1215	BOLT	2
STD-1411	NUT, Plain, 1/4-20	1
STD-1925	SCREW	6
60009	KEY, Valve	2
LW-13790	SHAFT, Valve rocker	1
60828	PLUG, Piston pin	2
61247	COVER, Rocker box	1
62922	SEAL, Shroud tube	2
65441	SEAT, Valve spring, lower	1
LW-14995	SPRING, Shroud tube	2
LW-12272	LOCKPLATE, Shroud tube	1
69444	ROCKER ASSY., Valve, intake	1
LW-14077	PIN, Piston	1
70310	SEAL, Shroud tube	2
71195	BOX, Set-up	1
71481	SEAL, Cylinder base	1
73857 or LW-12328	RING, Piston, oil reg.	1
73938	VALVE, Intake	1
74241	RING, Piston, top comp.	2
LW-13323	SEAT, Valve sp. lower exhaust	1
74636	ROCKER ASSY., Exhaust	1
74541	VALVE, Exhaust	1
75413	PISTON, 3 ring	1
LW-12427	CYLINDER ASSY., Nitrided	1
75906	GASKET, Rocker box cover	1
LW-10076	SEAT, Valve spring	1
LW-10077	SEAT, Valve spring	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-11775	PLUG, Piston pin	2
SSP2272	TAG	1
SSP2472	TAG	1
LW-12892	THRUST BUTTON	2

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION

CYLINDER, PISTON AND RING ASSY.
O-540-E, -G, -H SERIES
(NITRIDED CYLINDER, CHROME PLATED RINGS)

PART NUMBER	DESCRIPTION	QTY. PER ENG.
76292	CYLINDER, PISTON AND RING ASSY.	
STD-1411	NUT, Plain, 1/4-20	1
STD-1925	SCREW	6
60009	KEY, Valve intake	2
62922	SEAL, Shroud tube	2
LW-13790	SHAFT, Valve rocker	1
60828	PLUG, Piston pin	2
75906	GASKET, Rocker box cover	1
61247	COVER, Rocker box	1
MS13998-3	CAP, Valve stem, exhaust (rotator type)	1
LW-11800	SPRING, Valve, outer	2
65441	SEAT, Valve spring, lower (intake)	1
LW-11795	SPRING, Valve, inner	2
LW-10077	SEAT, Valve spring, upper, intake	1
LW-14995	SPRING, Shroud tube	1
LW-12272	LOCKPLATE, Shroud tube	1
69444	ROCKER ASSY., Valve, intake	1
LW-10076	SEAT, Valve spring, upper, exhaust (rotator type)	1
LW-14077	PIN, Piston	1
70310	SEAL, Shroud tube	2
71195	BOX, Set-up	1
71481	SEAL, Cylinder base	1
71541	VALVE, Exhaust (rotator type) sodium cooled chrome stem	1
MS13997-3	KEY, Valve, exhaust (rotator type)	2
LW-12328	RING, Piston, oil reg. (ch.) (expander type)	1
73938	VALVE, Intake	1
74241	RING, Piston, compression (ch.)	2
LW-12427	CYLINDER AND HEAD ASSY. (Nitrided cyls., straight valve head)	1
75089	PISTON	1
74636	ROCKER ASSY., Exhaust	1
LW-13323	SEAT, Valve sp. lower, exhaust	1
LW-12892	THRUST BUTTON	2
STD-1215	BOLT	2
72198	PLUG	2
SSP672	TAG	1
LW-11775	PLUG, Piston pin (alum.)	2
SSP2472	TAG	1

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SECTION 8 PARTS SUPERSEDURES

Part No.	Superseded by	Name	Remarks
SECTION 1			
Reference Page 1-1			
LW-13799	LW-13831	Crankcase Assy.	Due to increased flange thickness at bottom parting line.
Reference Page 1-3.			
72986	75761	Extension	To incorporate reinforced nylon oil filler tube.
72051	75737	Extension	To incorporate reinforced nylon oil filler tube.
75759	77527	Extension	Product improvement.
74313	75759	Extension	To incorporate reinforced nylon oil filler tube.
45187	72220	Gasket	Product improvement.
72984	73120	Gage Assy.	Product improvement.
72043	LW-14756	Gage Assy.	Parts standardization.
77722	LW-14734	Gage Assy.	Parts standardization.
71047	70456	Bracket	Product improvement.
Reference Page 1-4.			
71714	76529	Plug, Oil relief valve	Product improvement.
LW-10124	LW-11021	Bearing, Crankshaft	Product improvement.
73049	LW-10124	Bearing, Crankshaft	Product improvement.
72415	73049	Bearing, Crankshaft	Product improvement.
74303	LW-11575	Bearing, Crankshaft	To incorporate straight main bearing dowels.
77044	LW-13884	Bearing, Crankshaft	Product improvement.
75210	77044	Bearing, Crankshaft	Product improvement.
71637	75210	Bearing, Crankshaft	Product improvement.
78319	LW-13885	Bearing, Crankshaft	Product improvement.
74304	78319	Bearing, Crankshaft	Product improvement.
LW-12077	LW-13792	Seal	To incorporate seal having glue retention grooves.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 1 (CONT.)

Part No.	Superseded by	Name	Remarks
69529	72877	Body, Hydraulic Tappet	Product improvement.
Reference Page 1-5.			
74582	75073	Crankshaft & Counterweight Assembly	To incorporate crankshaft & counterweight assy. without lightening holes.
72727	74582	Crankshaft & Counterweight Assembly	Product improvement.
72024	72727	Crankshaft & Counterweight Assembly	Product improvement.
74953	75040	Crankshaft & Counterweight Assembly	Product improvement.
74581	75039	Crankshaft Assembly	To incorporate crankshaft assy. without lightening holes.
72728	74581	Crankshaft Assembly	Product improvement.
70459	72728	Crankshaft Assembly	Product improvement.
70256	73810	Bushing	Product improvement.
71906	LW-14820	Ring	To incorporate reinforced retaining rings.
Reference Page 1-7.			
71328	72565	Support Assembly	To provide 23° timing.
Reference Page 1-8.			
71643	76155	Shaft Assy.	Product improvement.
75709	78368	Pin	Product improvement.
LW-10575	LW-13795	Shaft	Product improvement.
73014	LW-10575	Shaft	Product improvement.
70390	73014	Shaft	Product improvement.
Reference Page 1-9.			
70395	73249	Washer, Thrust	Product improvement.
70394	73250	Washer, Thrust	Product improvement.
70393	73251	Washer, Thrust	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 1 (CONT.)

Part No.	Superseded by	Name	Remarks
70454	LW-13896	Plug	To incorporate shorter hex head.
179-B	72053	Gasket	To use (1) common gasket instead of (2).
180-G	72378	Cover	Product improvement.

Reference Page 1-10.

There are no supersedures on Page 1-10.

SECTION 2

Reference Page 2-1.

61352	73818	Gasket	Product improvement.
75367	76152	Housing Assembly	Product improvement.
71648	75367	Housing Assembly	Product improvement.
71650	76156	Shield	Product improvement.

Reference Page 2-2.

76354	78528	Body Assembly	To incorporate centered oil pump impellers.
67512	74641	Shaft	To incorporate Sintered oil pump impellers.

Reference Page 2-3.

75148	75246	Fuel Pump	Product improvement.
74798	75148	Fuel Pump	Product improvement.
74082	74798	Fuel Pump	Product improvement.
74060	74082	Fuel Pump	Product improvement.

Reference Page 2-4.

67537	72974	Gear Assy.	Product improvement.
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Reference Page 2-5.

71673	72964	Gear Assy.	Product improvement.
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Reference Page 2-7.

69451	75944	Valve Assembly	Product improvement.
76691	LW-12795	Gasket	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 2 (CONT.)

Part No.	Superseded by	Name	Remarks
74904	76691	Gasket	Product improvement.

SECTION 3

Reference Page 3-1.

LW-11457	LW-11750	Connecting Rod Assembly	Product improvement.
LW-10722	LW-11457	Connecting Rod Assembly	Parts standardization.
74502	LW-10722	Connecting Rod Assembly	Product improvement.
71987	74502	Connecting Rod Assembly	Product improvement.
68519	LW-13923	Bushing, Connecting Rod	To incorporate bushing with indexing slots.
74644	75061	Bolt, Connecting Rod	Parts standardization.
71087	74644	Bolt, Connecting Rod	Product improvement.
74646	LW-12186	Nut, Connecting Rod	Product improvement.
71950	74646	Nut, Connecting Rod	Product improvement.
71086	71950	Nut, Connecting Rod	Product improvement.
72218	LW-13521	Bearing	Product improvement.
74530	75089	Piston	To incorporate 2 compression ring piston.
72967	74530	Piston	Product improvement.
71594	72967	Piston	Product improvement.
74059	75413	Piston	Parts standardization.
73196	74059	Piston	To provide wide gap piston rings.
LW-13444	LW-14078	Pin, Piston	To incorporate new piston pin with positive identification.
69650	LW-13444	Pin, Piston	To incorporate new piston pin with carburized I.D.
74061	74241	Ring	Parts standardization.
75254	73857	Ring	Parts standardization.

Reference Page 3-2.

75874	LW-12427	Cylinder & Head Assembly	Product improvement.
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LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 3 (CONT.)

Part No.	Superseded by	Name	Remarks
60028	76943	Guide	Product improvement.
74230	77160	Guide	To incorporate flangeless valve guides.
69533	74230	Guide	Product improvement.
Reference Page 3-3.			
72625	73938	Valve	Product improvement.
69534	75068	Valve	Product improvement.
71595	69534	Valve	Product improvement.
65567	LW-11795	Spring	Product improvement.
76994	LW-11800	Spring	Product improvement.
65427	76994	Spring	Product improvement.
74554	LW-13323	Seat	To incorporate new lower valve spring seat with increased I.D.
68327	LW-10077	Seat	Product improvement.
73115	LW-10076	Seat	Product improvement.
76290	78290	Plunger Assembly	Product improvement.
73062	76290	Plunger Assembly	Product improvement.
72876	73062	Plunger Assembly	Product improvement.
71791	72876	Plunger Assembly	Product improvement.
65074	78524	Socket	Product improvement.
71083	LW-11485	Tube	Parts standardization.
75774	71083	Tube	Product improvement.
LW-12273	LW-13428	Spring	To incorporate new shroud tube spring on parallel heads.
68517	LW-12273	Spring	Product improvement.
68518	LW-12272	Lockplate	Product improvement.
Reference Page 3-4.			
71135	73434	Rod Assy.	Product improvement.
71136	73435	Rod Assy.	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 3 (CONT.)

Part No.	Superseded by	Name	Remarks
71137	73436	Rod Assy.	Product improvement.
60401	LW-13790	Shaft	Product improvement.
61246	75906	Gasket	Product improvement.
Reference Page 3-5.			
STD-2188	LW-15592-5-05	Clamp	Product improvement.
72152	75339	Baffle Assembly	To incorporate different baffles on wide cylinder flange.
71104	72152	Baffle Assembly	Product improvement.

SECTION 4

Reference Page 4-1.

68874	LW-12136	Cushion	Product improvement.
73627	LW-12707	Adapter	Product improvement.
78292	LW-12681	Gasket	Product improvement.
73820	78292	Gasket	Product improvement.
71601	73000	Coupling	Product improvement.
61566	LW-52305-1	Kit Assembly	Parts standardization.
71574	LW-157209	Kit	Parts standardization.
71571	LW-157208	Kit	Parts standardization.

Reference Page 4-3.

LW-10302	LW-13642	Gear	Product improvement.
LW-12136	LW-13641	Cushion	Product improvement.
68874	LW-12136	Cushion	Product improvement.
78292	LW-12681	Gasket	Product improvement.
73820	78292	Gasket	Product improvement.
LW-320297-2	LW-620026-2	Clip	To incorporate larger clips for new purple harness.
LW-320297-3	LW-14057	Clip	Product improvement.
LW-320298-3	LW-14060	Clip	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 4 (CONT.)

Part No.	Superseded by	Name	Remarks
LW-320299-6	LW-620029-6	Clip	To incorporate larger clips for new purple harness.
LW-320472-4	LW-320299-6	Clip	For changing of attaching parts on Piper harnesses.
LW-320472-4	LW-620037-4	Clip	To incorporate larger clips for new purple harness.
LW-320232	LW-620036-4	Clip	To incorporate larger clips for new purple harness.
LW-320300-7	73050	Clip	Product improvement.
LW-89027-17	LW-14875	Bracket	Product improvement.
71571	LW-157208	Kit	Parts standardization.
Reference Page 4-5.			
77514	LW-M-2457	Harness Assy.	To add Slick Harness Assy. as alternate to 77514.
78535	LW-M-2463	Harness Assy.	To add Slick Harness Assy. as alternate to 78535.
77029	78535	Harness Assy.	Product improvement.
75855	77029	Harness Assy.	Product improvement.
71888	75855	Harness Assy.	Product improvement.
66838	71888	Harness Assy.	Product improvement.
77514	LW-M-2458	Harness Assy.	To add Slick Harness Assy. as alternate to 77514.
78535	LW-M-2464	Harness Assy.	To add Slick Harness Assy. as alternate to 78535.
LW-320297-3	LW-14057	Clip	Product improvement.
LW-320298-3	LW-14060	Clip	Product improvement.

SECTION 5

Reference Page 5-1.

77345	LW-10185	Regulator	Product improvement.
77347	LW-10179	Regulator	Product improvement.
74322	76026	Belt	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 5 (CONT.)

Part No.	Superseded by	Name	Remarks
Reference Page 5-2.			
78310	LW-14316	Alternator	Product improvement.
77470	78310	Alternator	Product improvement.
78312	LW-14319	Alternator	Product improvement.
77346	78312	Alternator	Product improvement.
78314	LW-14324	Alternator	Product improvement.
77751	78314	Alternator	Product improvement.
LW-10009	LW-14315	Alternator	Product improvement.
LW-12277	LW-14322	Alternator	Product improvement.
Reference Page 5-3.			
76533	LW-13039	Bracket	Product improvement.
73276	75380	Link	Parts standardization.
Reference Page 5-5.			
LW-14207	LW-15571	Starter	Product improvement.
76211	LW-14207	Starter	Product improvement.
74092	76211	Starter	Product improvement.
73269	74092	Starter	Product improvement.
72567	73269	Starter	Product improvement.
LW-14208	LW-15572	Starter	Product improvement.
76212	LW-14208	Starter	Product improvement.
72462	76212	Starter	Product improvement.
73270	72462	Starter	Product improvement.
71452	73270	Starter	Product improvement.
76773	LW-12083	Switch	Product improvement.
61427	76773	Switch	Product improvement.
76775	LW-12085	Switch	Product improvement.
76268	76775	Switch	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

PARTS SUPERSEDURES (CONT.)

SECTION 5 (CONT.)

Part No.	Superseded by	Name	Remarks
61941	76268	Switch	Product improvement.

SECTION 6

Reference Page 6-1.

72812	LW-13306	Gasket	Product improvement.
71697	72056	Sump Assy.	To relocate nameplate from crankcase to oil sump assy.

Reference Page 6-2.

There are no supersedures on Page 6-2.

Reference Page 6-3.

STD-1269	LW-15592-8-28	Clamp	Product improvement.
60131	71973	Gasket	Parts standardization.
60069	73346	Flange	Product improvement.

Reference Page 6-4.

71654	72740	Carburetor	Product improvement.
73373	72740	Carburetor	Product improvement.
LW-10196	LW-10540	Carburetor	Product improvement.
72740	LW-10196	Carburetor	Product improvement.

Reference Page 6-5.

61581-1	LW-12098-1-153	Tube Assy.	Product improvement.
61581-7	LW-12098-1-183	Tube Assy.	Product improvement.
61581-2	LW-12098-1-116	Tube Assy.	Product improvement.
61581-3	LW-12098-0-100	Tube Assy.	Product improvement.
62254	LW-12293	Clip	Product improvement.

LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

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LW-11800	Spring	3-3	LW-14316	Alternator	5-2
LW-12083	Switch	5-5	LW-14319	Alternator	5-2
LW-12085	Switch	5-5	LW-14322	Alternator	5-2
LW-12098-0-100	Tube Assy.	6-5	LW-14324	Alternator	5-2
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LYCOMING O-540 SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

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