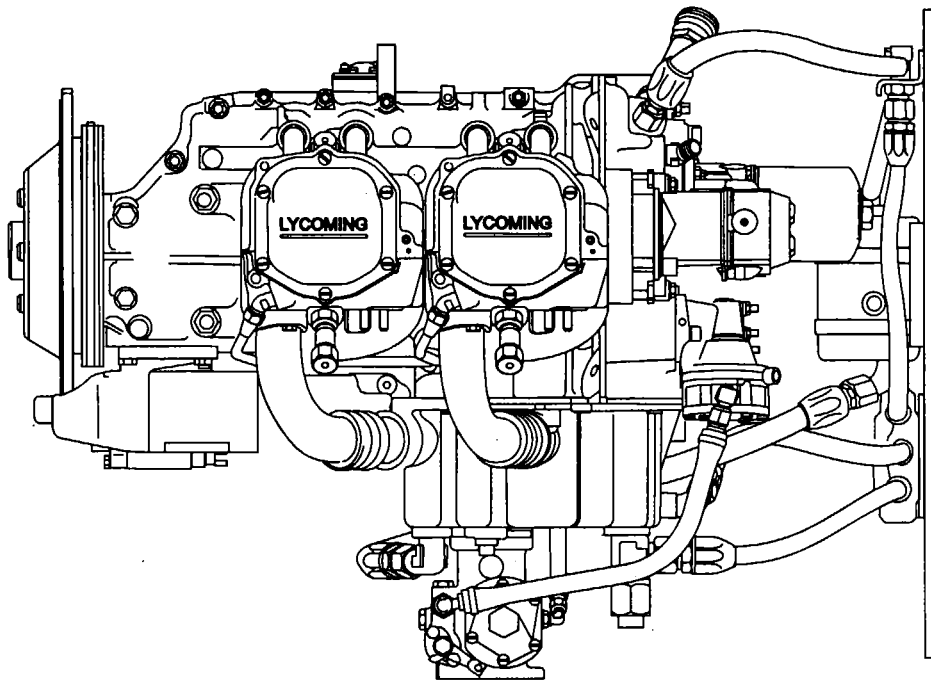


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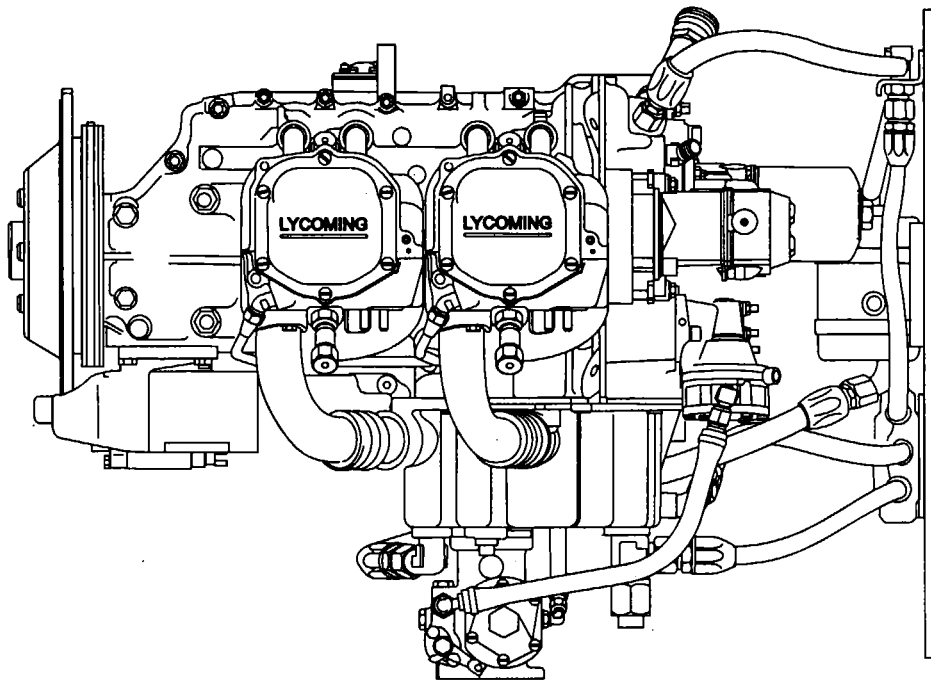
Engine Parts Catalog

AEIO-360-B1B -B1F & -B1H

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December 2005

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Engine Parts Catalog

AEIO-360-B1B -B1F & -B1H

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LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

This illustrated parts catalog contains a complete parts listing for the Lycoming AEIO-360-B1B, -B1F and the -B1H wide cylinder flange crankcase model aircraft engines.

Major assembly and sub-assembly parts of the engine are listed in the Group Assembly sections in the general sequence of engine build up.

A Service Kits Section and Oversize and Undersize Parts List are included to aid in ordering parts as necessary during overhaul.

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

Parts coverage of Vendor Accessories used on Lycoming engines may be found in the appropriate Vendor's Parts Catalog. A list of addresses of where to obtain these publications appears in the latest edition of Service Letter No. L114.

NOTE

The illustrations, pictures and drawings shown in the publication are typical of the subject matter they portray.

This catalog, when used in conjunction with the appropriate overhaul manual, shall be used for parts identification only. **Under no circumstances shall this catalog be used as an assembly or installation document.**

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

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SERVICE BULLETINS, INSTRUCTIONS AND LETTERS

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

HOW TO ORDER PARTS

In ordering parts for your engine, observe the following instructions, which will expedite shipment of correct parts required without delay.

- a. Always, specify the model and serial number of your engine.
- b. Always, specify part number, nomenclature and quantity required.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

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LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

Oversize and Undersize Parts Listing

PART NO.	DESCRIPTION	OVERSIZE								UNDERSIZE		
		P02 .002	P05 .005	P10 .010	P15 .015	P20 .020	P30 .030	P40 .040	P50 .050	M03 .003	M06 .006	M10 .010
61681	GUIDE		X	X		X	X	X				
66610	BUSHING		X	X								
66796	INSERT		X	X								
69796	DOWEL		X									
72057	SEAT		X	X		X	X					
72058	SEAT		X	X		X	X					
72155-S	BUSHING		X	X	X	X						
74241	RING		X									
75656-S	BUSHING		X	X	X	X						
75657-S	BUSHING		X	X	X	X						
LW-11997	SEAL								X			
LW-13792	SEAL								X			
STD-1065	DOWEL	X	X	X	X							
14H21950	RING			X		X						
16R22291	GUIDE		X	X		X	X	X				
18M19389	BEARING			X						X	X	X
18A19441	BEARING									X	X	X
18D23135	BEARING									X	X	X

In addition to the above, studs are available in P03, P07 & P12.

When ordering oversize and undersize parts, be sure to specify the required oversize and undersize dimension with the proper part number. For example, to order bearing LW-13521 in .003 undersize, order part number LW-13521-M03. 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 AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP CRANKCASE ASSEMBLY

FIG. REF. 1	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	11B20061-1SL	CRANKCASE ASSEMBLY		1	1	
	LW-18399-1	CRANKCASE ASSEMBLY				1
2	75154	STUD, 1/2-13 x 10-1/32 long	2			
3	50-15	STUD, 1/2-13 x 1-7/8 long	8			
4	38-13	STUD, 3/8-16 x 1-5/8 long	16			
5	38D-17	STUD, 3/8-16 x 2-1/8 long, drilled	1			
6	31C-12	STUD, 5/16-18 x 1-1/2 long	2			
7	31C-13	STUD, 5/16-18 x 1-5/8 long	1			
8	STD-557	DOWEL, 1/2 dia. x 11/16 long, hollow	2			
9	38-22	STUD, 3/8-16 x 2-3/4 long				1
10	72158	BUSHING, Gov. drive idler shaft				1
11	31C-14	STUD, 5/16-18 x 1-3/4 long				4
12	STD-514	DOWEL, 5/16 dia. x 1/2 long	2			
13	STD-1623	INSERT, 1/4-20 Helicoil x 3/8 long	2			
14	LW-13793	STUD, 5/16-18 x 15/16 long, drilled	1			
15	69796	DOWEL, Crankshaft bearing	2			
16	1102	PLUG, 1/8-27 NPT, Allen head		6	6	5
17	STD-1339	PLUG, 1/16-27 NPT, Allen head		4	4	5

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

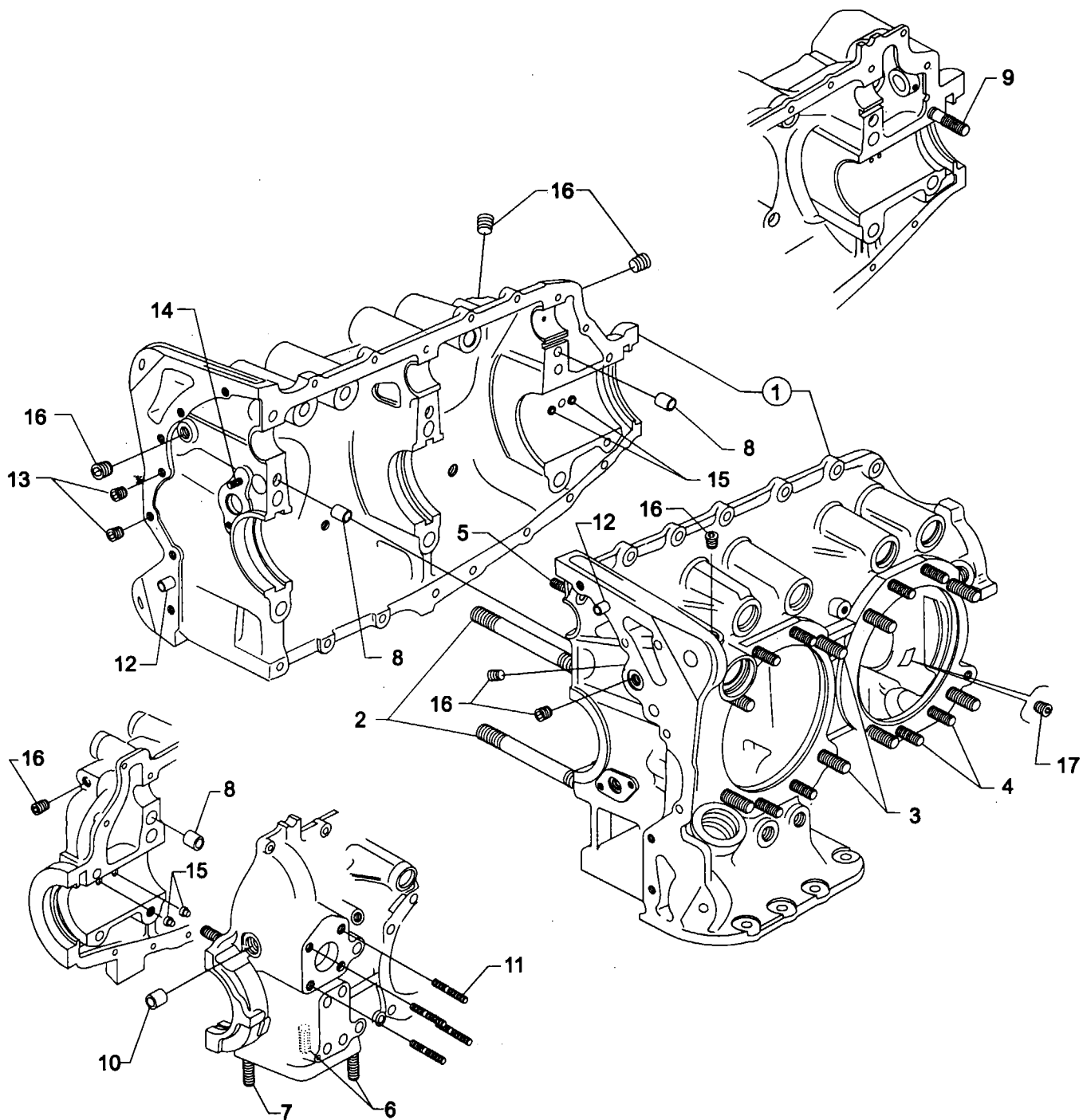


Figure 1 Crankcase Assembly

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
OIL LEVEL GAGE ASSEMBLY AND CRANKCASE RELATED PARTS

FIG. REF. 2	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	75736	TUBE, Oil level gage, long	1	1	1	
	74168	TUBE, Oil level gage, long				
2	72059	GASKET, Oil level gage	1	1	1	
3	74068	RING, Oil level gage seal	1	1	1	
	74065	RING, Oil level gage seal				
4	LW-16783-18	GAGE ASSEMBLY, Oil level	1	1	1	
	LW-14750	GAGE ASSEMBLY, Oil level				
5	1028-B	BALL, 11/16 diameter	1			
6	61084 *	SPRING, Oil pressure relief valve	1			
	68668 *	SPRING, Oil pressure relief valve	1			
	77467 *	SPRING, Oil pressure relief valve	1			
	LW-11713 *	SPRING, Oil pressure relief valve	1			
	LW-18085 *	SPRING, Oil pressure relief valve	1			
7	06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1			
8	77808	VALVE ASSY., Oil pressure relief valve, adj.	1			
9	18D23135	BEARING, Crankshaft	4			
10	18A19441	BEARING, Crankshaft, front	2			
11	LW-13792 **	SEAL, Crankshaft oil, solid	1			
	LW-11997 **	SEAL, Crankshaft oil, split	1			
12	72075	SEAL, Oil, 3/32 section x 7/16 I.D.	2			
13	72091	RING, Oil seal, 23/64 I.D. x 7/64 diameter	2			
14	72877	BODY, Hydraulic tappet	8			

* Select spring to give a minimum of three threads exposed on adjusting screw to allow field adjustment. Reference See latest revision of Lycoming Table of Limits SSP-1776, Part I for spring identification.

** See latest edition of Lycoming Service Instruction No. 1324 for installation.

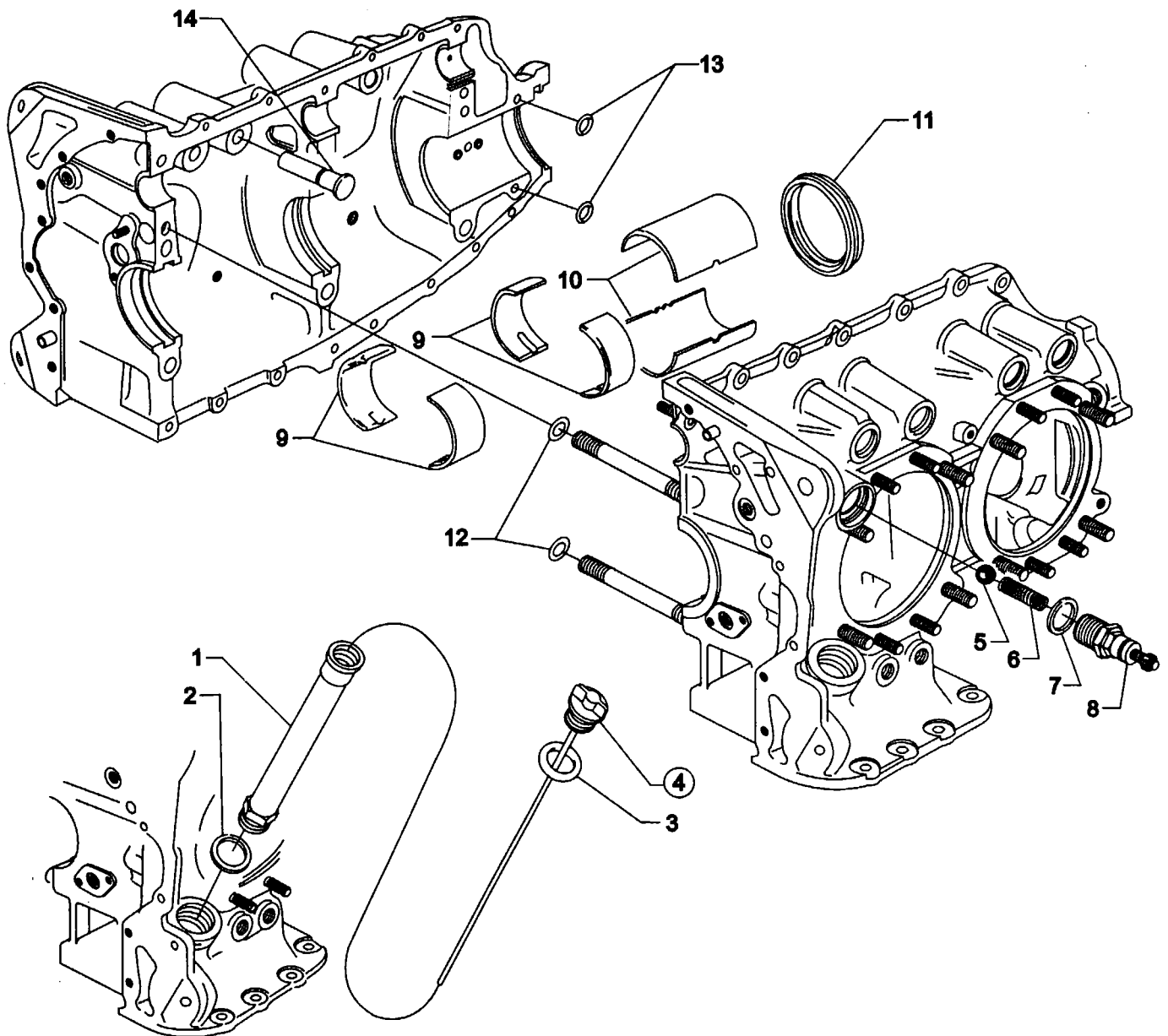


Figure 2 Oil Level Gage Assembly and Crankcase Related Parts

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP CRANKSHAFT ASSEMBLY AND RELATED PARTS

FIG. REF. 3	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	13B47120	CRANKSHAFT AND BUSHING ASSEMBLY		1	1	
	13B47125	CRANKSHAFT AND BUSHING ASSEMBLY				1
2	STD-1211	PLUG, 2.00 dia. expansion	1			
3	STD-1065	DOWEL, Stepped, 5/16 & 1/4 dia. x 35/64 long	1			
4	61510	PLUG, 1-3/4 O.D.	1			
5	75656-S	BUSHING, Prop. flange, long		4	4	3
6	72155-S	BUSHING, Prop. flange , short		1	1	2
7	75657-S	BUSHING, Prop. flange, indexing		1	1	
	79024-S	BUSHING, Prop. flange, indexing				1
8	13S19646 *	GEAR, Crankshaft	1			
9	LW-18639	LOCKPLATE, Crankshaft gear	1			
10	STD-2246	BOLT, 5/16-24 x 1.00 long	1			
11	LW-16471	SUPPORT ASSY., Starter ring gear	1			
12	72566	GEAR, Starter ring, 12/14 pitch	1			

* See latest edition of Lycoming Service Bulletin No. 475 for proper installation.

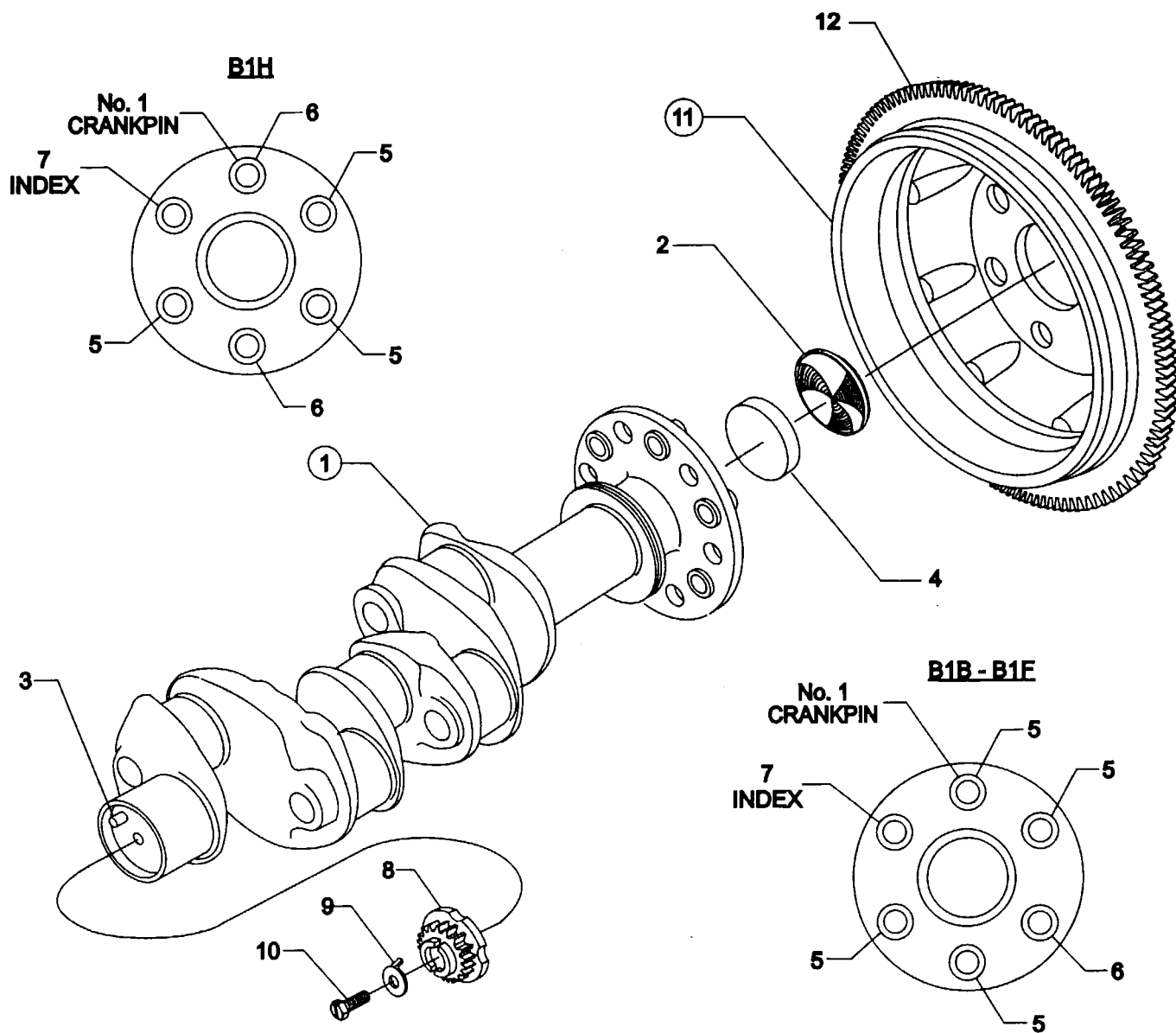


Figure 3 Crankshaft Assembly and Related Parts

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKSHAFT IDLER GEARS, TACHOMETER DRIVE AND CAMSHAFT

FIG. REF. 4	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	61544	PLUNGER, Fuel pump, long	1			
2	74996	GEAR ASSY., Crankshaft idler, plain	1			
3	77309	BUSHING, Crankshaft idler gear	1			
4	75072	GEAR ASSY., Crankshaft idler	1			
5	77309	BUSHING, Crankshaft idler gear	1			
6	76121	SHAFT ASSY., Tachometer	1			
7	LW-18667	PIN, 3/16 dia. x 2-21/64 long	1			
8	STD-2231	RING, Internal retaining	1			
9	LW-13796	SHAFT, Crankshaft idler gear	2			
10	LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head	3			
11	STD-2168	NUT, 5/16-18 NC-3 slotted shear	1			
12	LW-18840	CAMSHAFT ASSEMBLY		1	1	
	LW-18843	CAMSHAFT ASSEMBLY				1
13	76118	SPACER, Tachometer shaft centering	1			

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG
WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

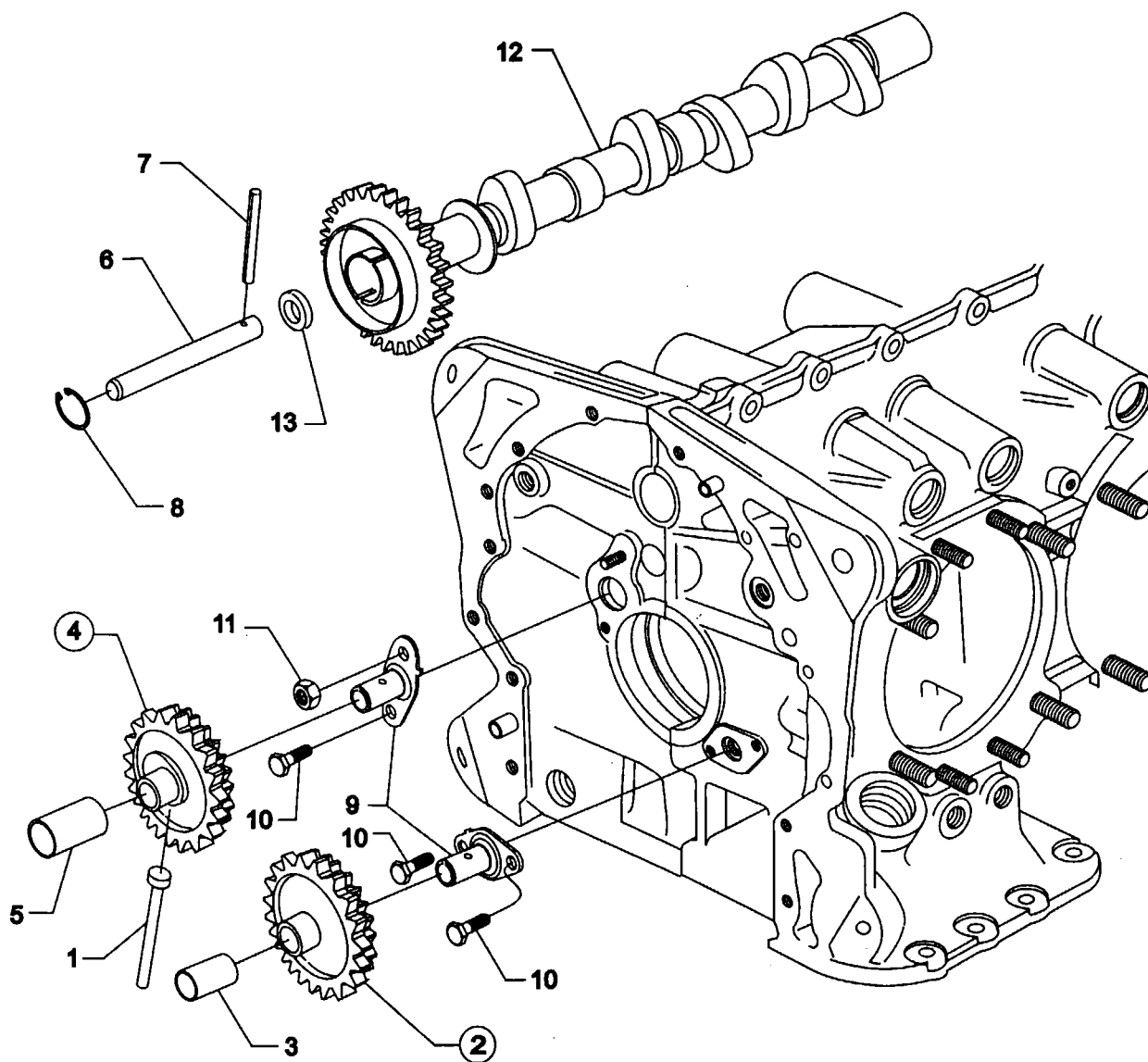


Figure 4 Crankshaft Idler Gears, Tachometer Drive and Camshaft

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP PROPELLER GOVERNOR DRIVE ASSEMBLY (CRANKCASE)

FIG. REF. 5	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	77875	GEAR, Prop governor driven				1
2	LW-14021	SHAFT, Prop governor idler gear				1
3	77874	GEAR ASSY., Prop governor idler				1
4	77872	BUSHING, PROP Gov idler gear				2
5	STD-19	DOWEL, 3/32 dia. x 7/32 long				1
6	STD-798	DOWEL, .3/32 dia. x 9/32 long				1
7	73249	WASHER, Thrust (.0585 - .0595 thick)				AR
	73250	WASHER, Thrust (.062 - .063 thick)				AR
	73251	WASHER, Thrust (.0655 - .0665 thick)				AR
	73252	WASHER, Thrust (.069- .070 thick)				AR
	01L21418	WASHER, Thrust (.055 - .065 thick)				AR
8	AN565B1032H5	SETSCREW, No. 10-32 x 5/16 long				1
9	70455	GASKET, 25/32 I.D. x 1-1/8 O.D. x 1/16 thick				1
10	LW-13896	PLUG, 3/4-16 hex head				1

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

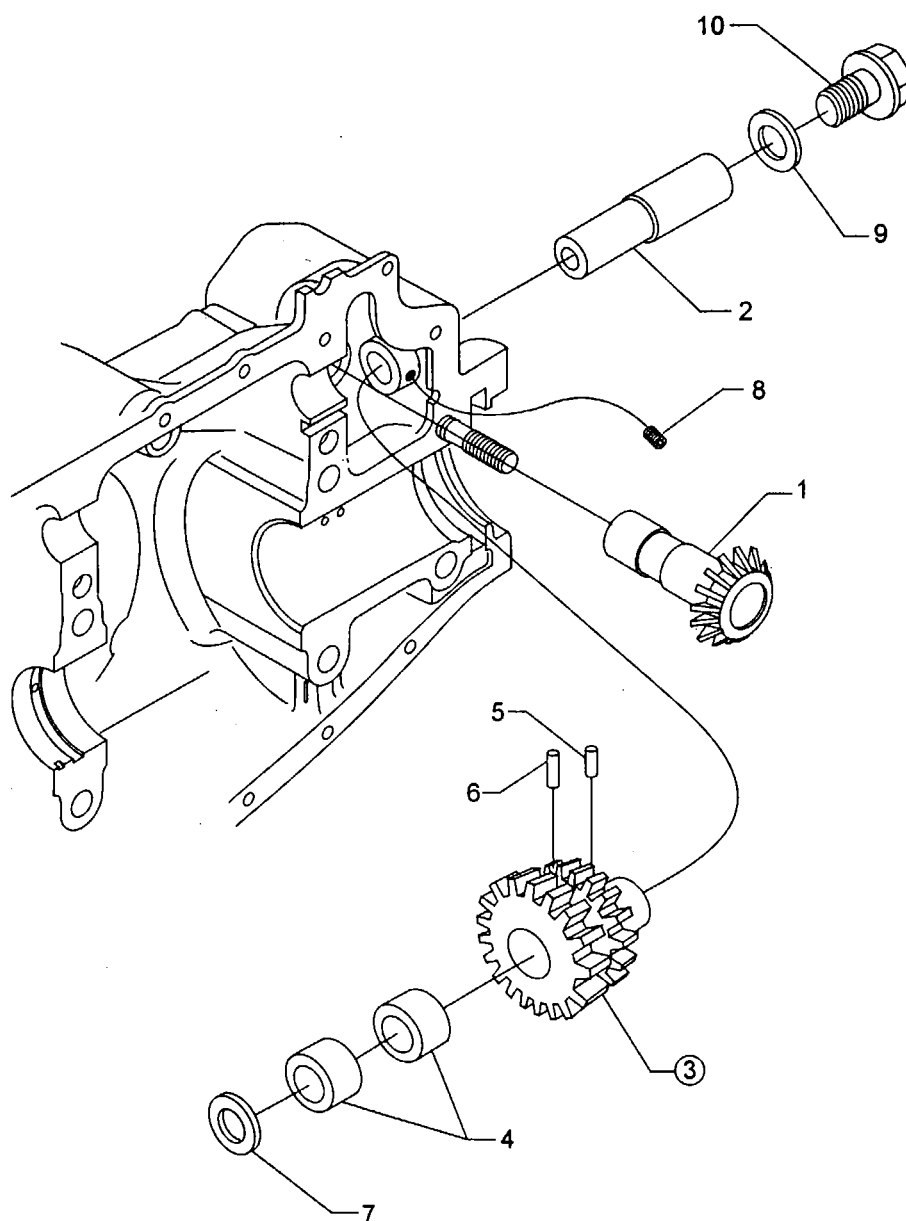


Figure 5 Propeller Governor Drive Assembly (Crankcase)

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKCASE ATTACHING PARTS

FIG. REF. 6	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head		5	7	8
2	LW-25-2.00	BOLT 1/4-20 x 2.00 long, hex. head		2		
3	STD-8	WASHER, 1/4 plain		13	19	20
4	60803	STRAP, Lifting		2	1	1
5	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. head		1	1	1
6	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head		3	3	4
7	STD-160	WASHER, 1/4 lock, internal teeth		12	12	13
8	STD-1411	NUT, 1/4-20 plain	9			
9	LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head., dr. end	3			
10	STD-8	WASHER, 1/4 plain (max. 9)	AR	9		
11	STD-2249	NUT, 1/4-20 slotted shear	3	3		
12	STD-33	WASHER, 3/8 plain, 1/16 thick	1	3		
13	AN960-616L	WASHER, 3/8 plain, 1/32 thick	1	1		
14	STD-872	NUT, 3/8-24 slotted	1	1		
15	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. head		2	2	1
16	STD-33	WASHER, 3/8 plain	2			
17	STD-678	WASHER, 3/8 lock, internal teeth	2			
18	STD-596	NUT, 3/8-24 plain	2			
19	76220	STUD, 1/2-20 x 10-45/64 long	4			

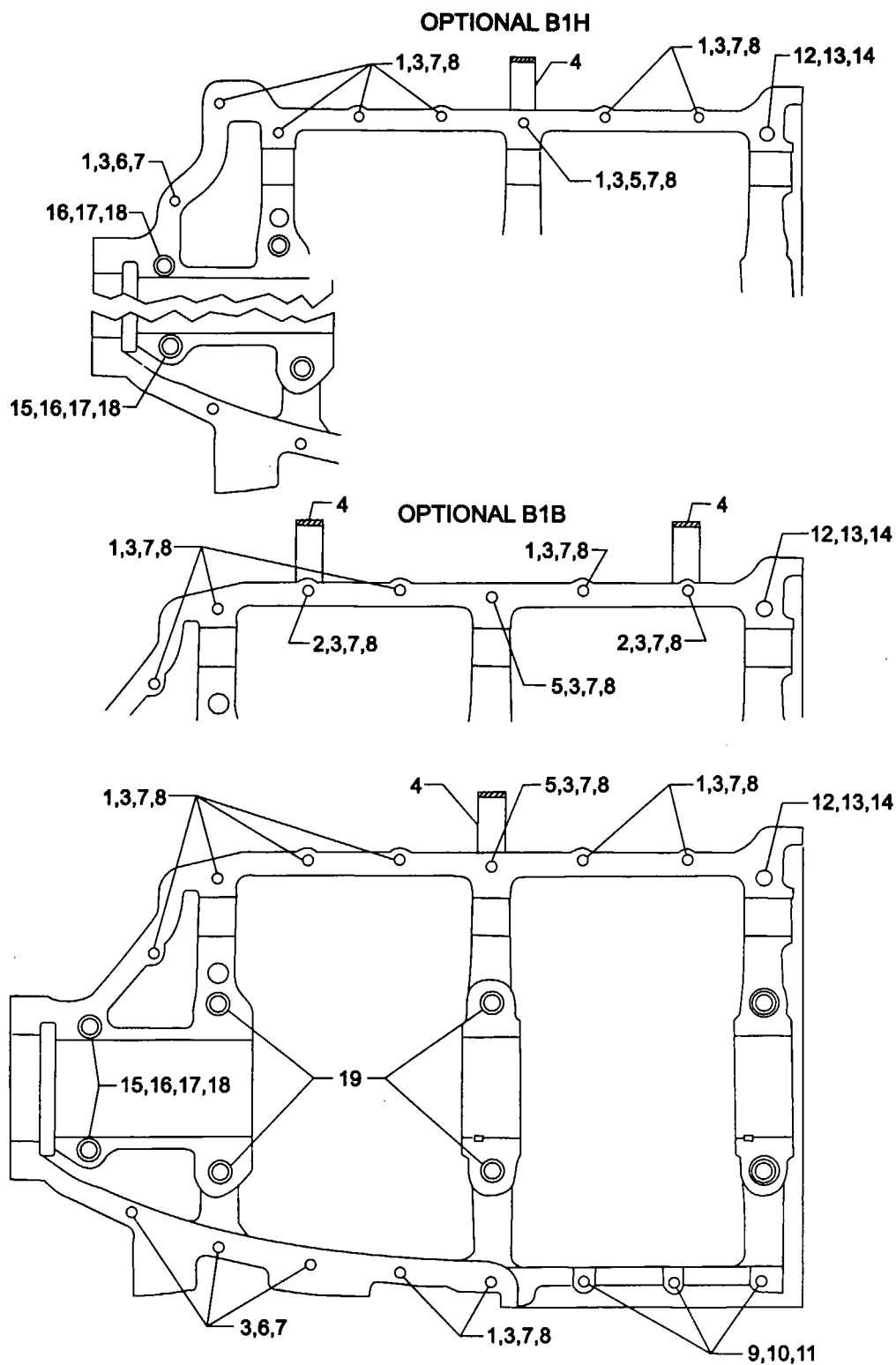


Figure 6 Crankcase Attaching Parts

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS ACCESSORY HOUSING ASSEMBLY

FIG. REF. 7	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	73818	GASKET, Accessory housing	1			
2	21A21533-04	HOUSING ASSY., Accessory			1	1
	21A21533-05	HOUSING ASSY., Accessory			1	
	21A21533-06	HOUSING ASSY., Accessory		1		
	21A21533-16	HOUSING ASSY., Accessory			1	
	21A21533-26	HOUSING ASSY., Accessory		1	1	
3	25C-22	STUD, 1/4-20 x 2-3/4 long (VAC)		4	4	4
4	31C-12	STUD, 5/16-18 x 1-1/2 long (HYD)		2	4	
	31C-12	STUD, 5/16-18 x 1-1/2 long		2		4
	31C-12	STUD, 5/16-18 x 1-1/2 long (MAG) RIGHT		4		2
	31C-12	STUD, 5/16-18 x 1-1/2 long				
5	25C-12	STUD, 1/4-20 x 1-1/2 long		4		
6	31C-19	STUD, 5/16-18 x 2-3/8 long (MAG) LEFT			4	2
	31C-19	STUD, 5/16-18 x 2-3/8 long				
7	31C-13	STUD, 5/16-18 x 1-5/8 long (HYD)		2		
8	31CD-17	STUD, 5/16-18 x 2-1/8 long, drilled (OIL PUMP)	3			
9	1102	PLUG, 1/8-27 NPT, Allen head	4			
10	STD-784	PLUG, 3/8-18 NPT, Allen head	1			

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

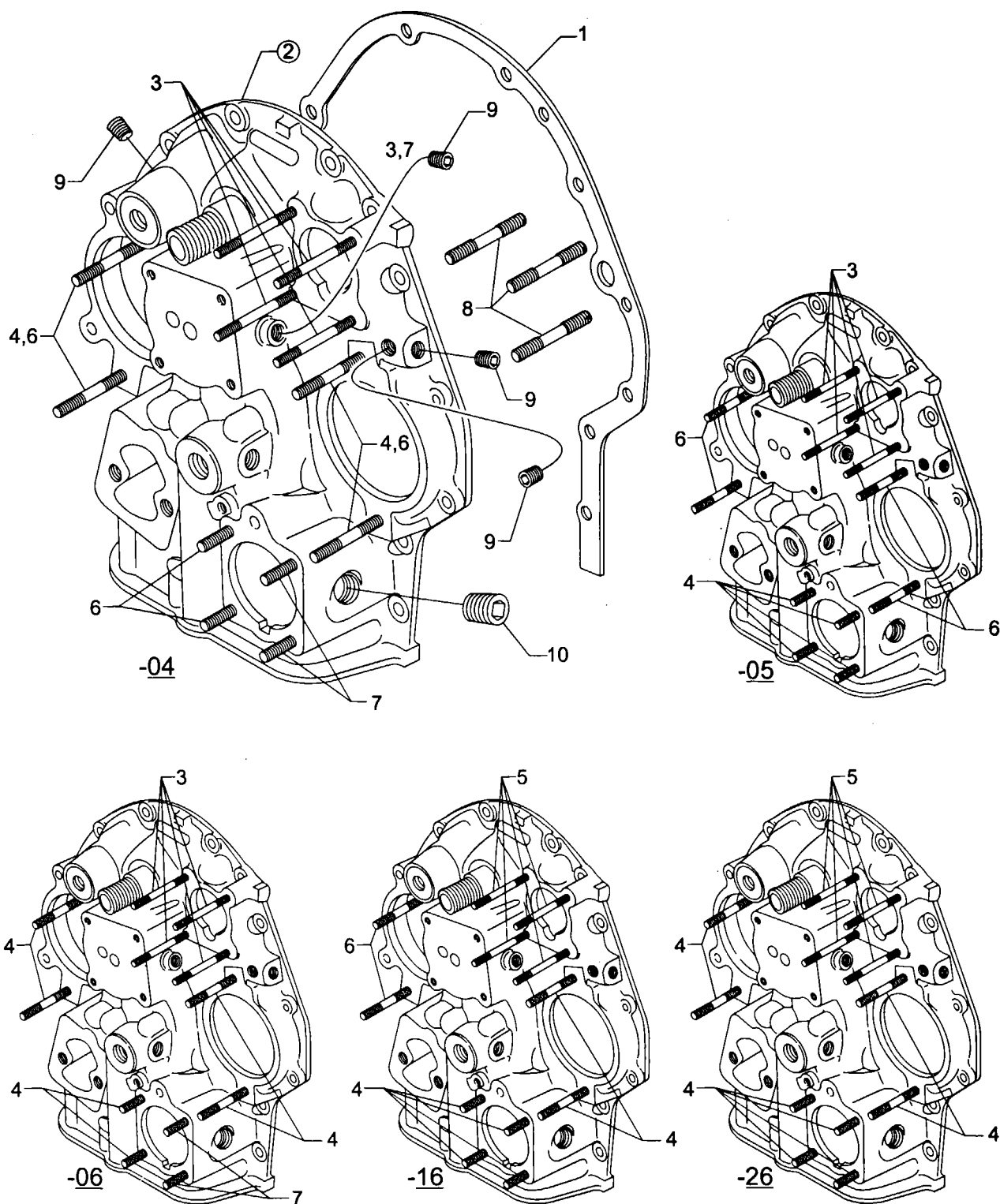


Figure 7 Accessory Housing Assembly

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS OIL PUMP ASSEMBLY AND ACCESSORY HOUSING ATTACHING PARTS

FIG. REF. 8	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	78531	BODY ASSY., Oil pump	1			
2	05K19423-S *	OIL PUMP IMPELLER KIT	1			
3	61174	SHAFT, Oil pump drive	1			
4	STD-35	WASHER, 5/16 plain	3			
5	STD-1420	NUT, 5/16-18 slotted	3			
6	LW-14260	SEAL, Tachometer drive, oil	1			
7	STD-8	WASHER, 1/4 plain	12			
8	STD-160	WASHER, 1/4 lock, internal teeth	12			
9	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head	9			
10	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	1			
11	LW-25-1.44	BOLT, 1/4-20 x 1-7/16 long, hex. head	2			

* See latest edition of Lycoming Service Bulletin No. 524.

* Consist of : LW-18110 & LW18109 Impellers

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

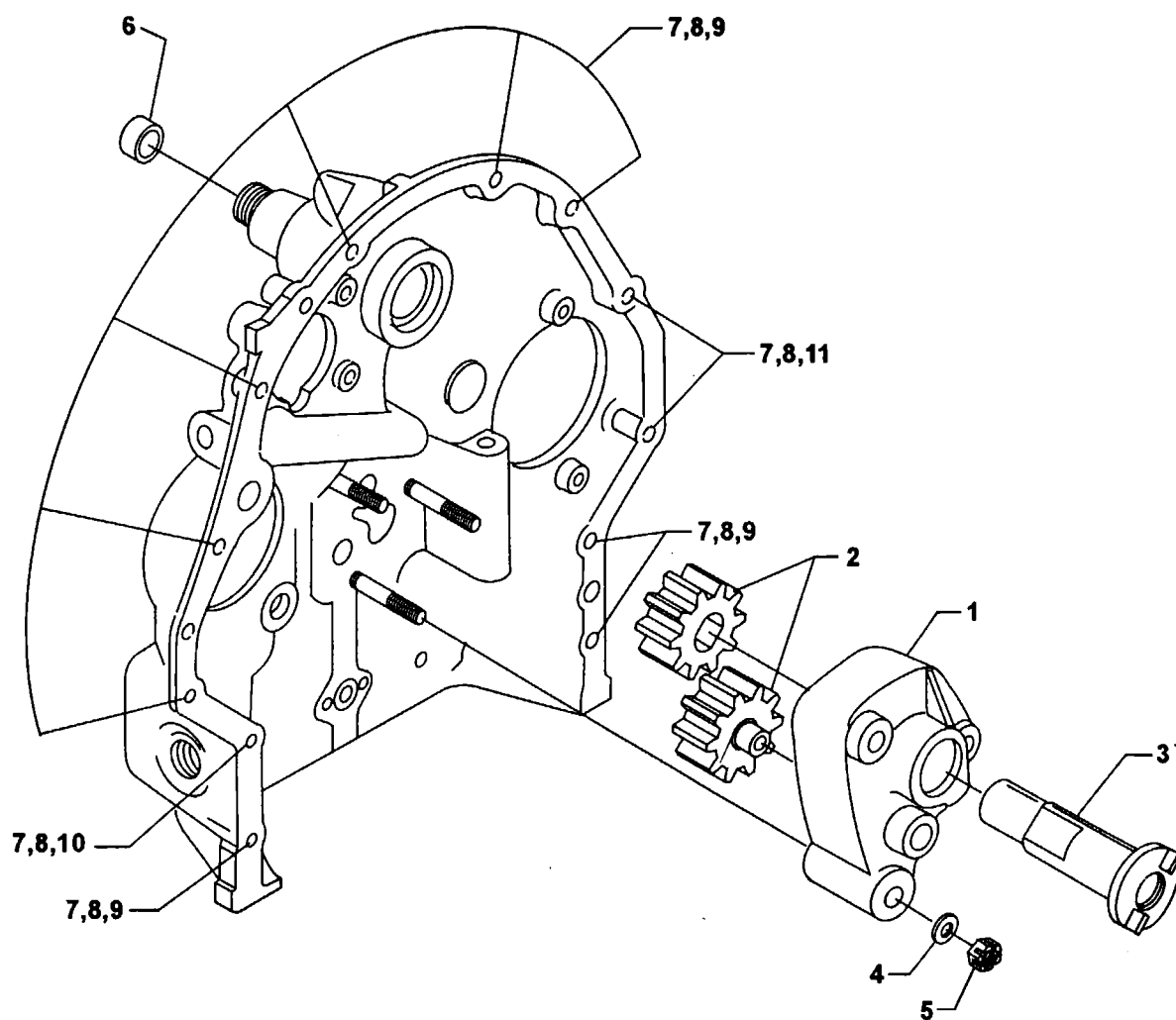


Figure 8 Oil Pump Assembly and Accessory Housing Attaching Parts

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS PROPELLER GOVERNOR DRIVES, COVERS, OIL LINES AND ADAPTER ASSEMBLY

FIG. REF. 9	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	68317	SHAFTGEAR, Propeller governor drive		1	1	
2	71596	WASHER, Accessory drive gear		1	1	
3	STD-1221	RING, 13/16 dia. x 1/32 thick, external retaining		1	1	
4	68315	GASKET, Accessory drive adapter		1	1	
5	75153	ADAPTER ASSY., Propeller governor driven		1	1	
6	1102	PLUG, 1/8 pipe		1	1	
7	31C-16	STUD, 5/16-18 x 2.00 long		4	4	
8	STD-1774	PIN, 1/8 dia. x 1/4 long		1	1	
9	69551	GASKET, Accessory drive adapter				1
10	69106	COVER, Governor drive adapter pad				1
11	STD-35	WASHER, 5/16 plain		4	4	4
12	STD-475	WASHER, 5/16 lock, internal teeth		4	4	4
13	STD-1410	NUT, 5/16-18 plain		4	4	4
14	72053	GASKET, Governor		1	1	
15	72378	COVER, Governor drive		1	1	
16	72053	GASKET, Governor				1
17	72378	COVER, Governor drive				1
18	STD-35	WASHER, 5/16 plain		4	4	32
19	STD-475	WASHER, 5/16 lock, internal teeth		4	4	4
20	STD-1410	NUT, 5/16-18 plain		4	4	4
21	75167	TUBE ASSY., Propeller governor oil line		1	1	
22	STD-1930	HOSE, 3/8 I.D. x 1.00 long		1	1	
23	75165	CLIP, Propeller governor oil line support		1	1	
24	STD-35	WASHER, 5/16 plain		3	3	
25	STD-475	WASHER, 5/16 lock, internal teeth		1	1	
26	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head		1	1	
27	LW-16266-25-38	CLAMP, Cushion type		1	1	
28	MS20822-6	ELBOW, 1/4 NPT to 3/8 flared tube, 90° RT. C'CASE		1	1	
29	74070	ELBOW, 3/8 flared tube & 9/16-18 standard thread		1	1	
30	02M22809-6S293	HOSE ASSY., Teflon, 3/8 hose, straight fittings		1	1	
31	STD-670	LOCKNUT, No. 10-32		1	1	
32	STD-692	SCREW, No. 10-32 x 1/2 long, rd. head		1	1	
33	LW-16266-10-75	CLAMP		1	1	
34	MS20822-6	ELBOW, 1/4 NPT to 3/8 flared tube, 90°		1	1	
35	74070	ELBOW, 3/8 flared tube & 9/16-18 standard thread		1	1	
36	73152	BRACKET, Support clamp		1	1	

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

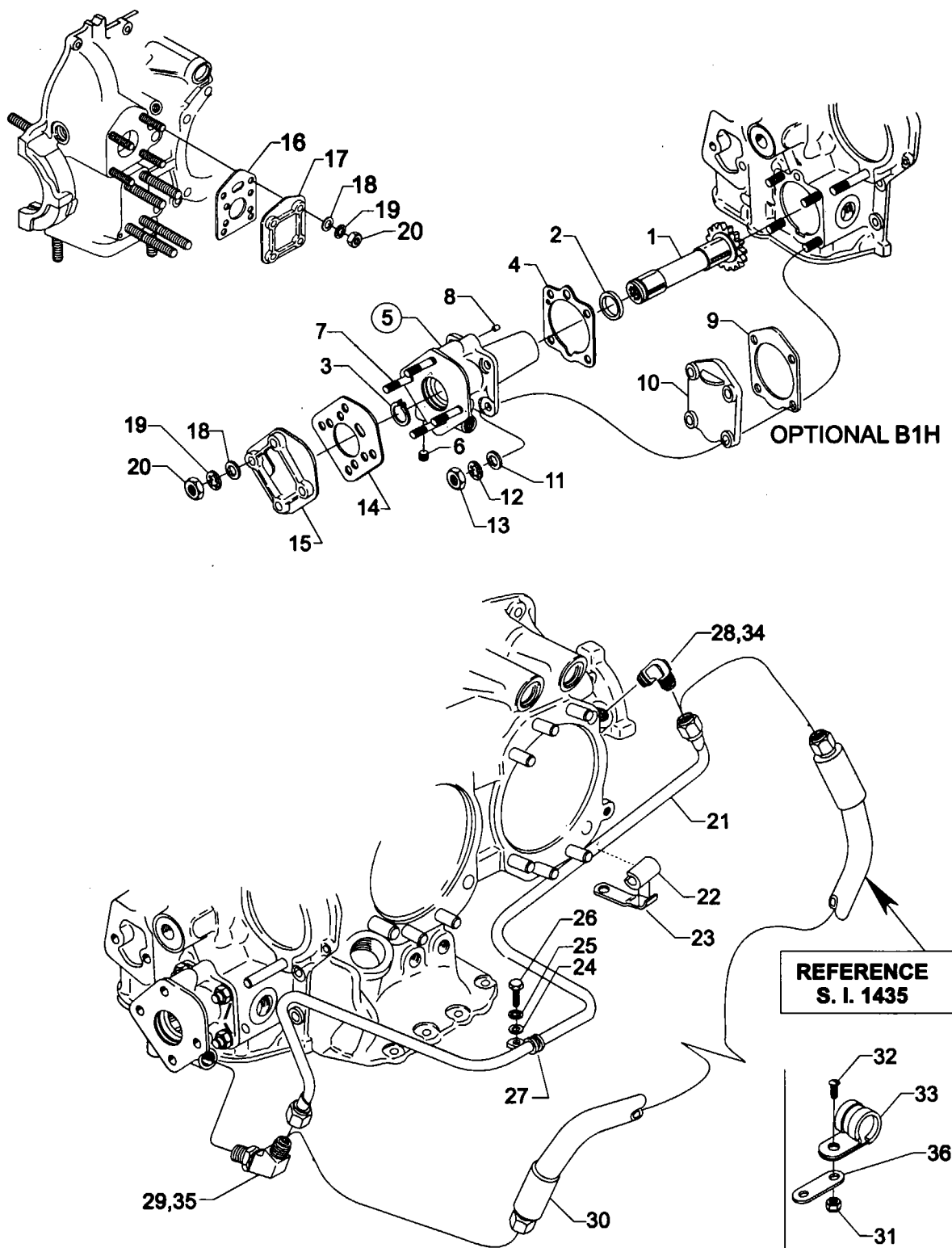


Figure 9 Propeller Governor Drives, Covers, Oil Lines and Adapter Assembly

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS FUEL PUMP ASSEMBLY

FIG. REF. 10	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	60096	GASKET, Fuel pump	1			
2	LW-15473	FUEL PUMP. Dual diaphragm	1			
3	STD-33	WASHER, 3/8 plain	2			
4	STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket drive	2			

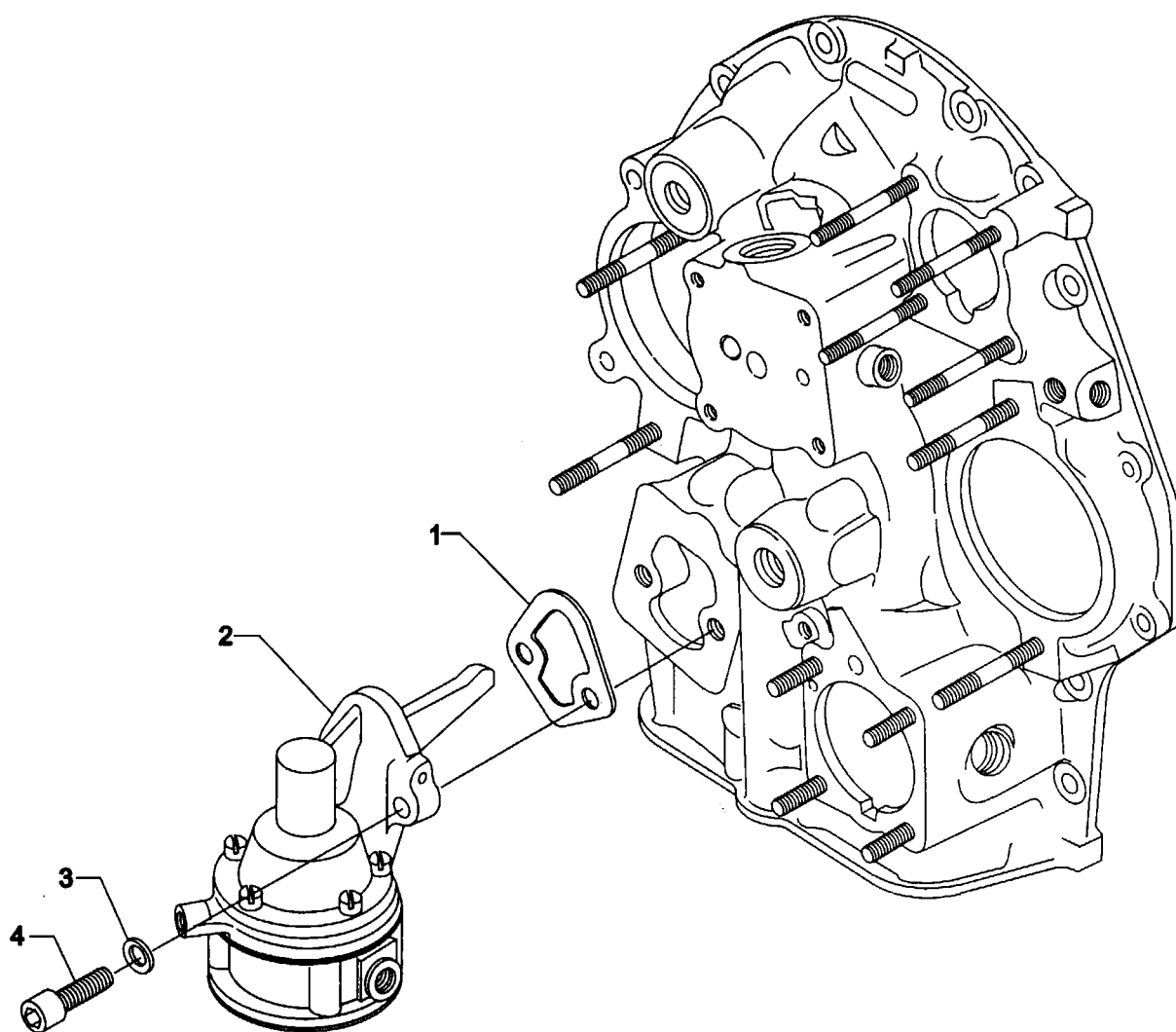


Figure 10 Fuel Pump Assembly

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS **OIL FILTER, OIL COOLER BYPASS VALVE AND FITTINGS**

FIG. REF. 11	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	H1B
1	LW-12795 *	GASKET, Oil filter adapter	2			
2	77852	OIL FILTER BASE ASSEMBLY	1			
3	LW-13215 *	OIL FILTER, Short, spin-on	2			
4	STD-8	WASHER, 1/4 plain	4			
5	STD-160	WASHER, 1/4 lock, internal teeth	1			
6	STD-1411	NUT, 1/4-20 plain	1			
7	STD-160	WASHER, 1/4 lock, internal teeth	3			
8	LW-25-1.00	BOLT, 1/4-20 x 1.00 long	3			
9	62817	SCREEN ASSY., Oil pressure	1			
10	61173	GASKET, Oil pressure housing	1			
11	69510	HOUSING, Oil pressure screen	1			
12	06E19769-0.63	GASKET, Annular, 5/8 I.D.	1			
13	STD-8	WASHER, 1/4 plain	4			
14	STD-160	WASHER, 1/4 lock, internal teeth	4			
15	LW-25-1.00	BOLT, 1/4-20 x 1.00 long	4			
16	53E22144	VALVE ASSY., Temp. control oil cooler bypass	1			
17	76510	GASKET, Valve assembly	1			
18	25C-10	STUD, 1/4-20 x 1-1/4 long	1			
19	06E19769-0.63	GASKET, Annular, 5/8 I.D.		1		
20	62417	PLUG, Oil cooler bypass	1			
21	MS20823-8	ELBOW, 1/2 flared tube , 3/8 NPT	2			
22	71140	FITTING, Breather	1			
23	69675	CONNECTOR, Accy. hsg. oil cooler		1		
24	STD-784	PLUG, 3/8-18 NPT, Allen head	2			
25	71623	WASHER, Oil cooler fitting			1	
26	AS5163D08	ELBOW, Universal, 75°			1	
27	AN901-8A	GASKET, Metal tube connect seal			1	
28	71620	BOLT, 5/8-18 x 1-7/8 long			1	

* Extra gasket and oil filter, shipped as loose parts, with engine.

NOTE

Reference latest edition of Lycoming SSP-885 for oil filter kits and replacement filters.

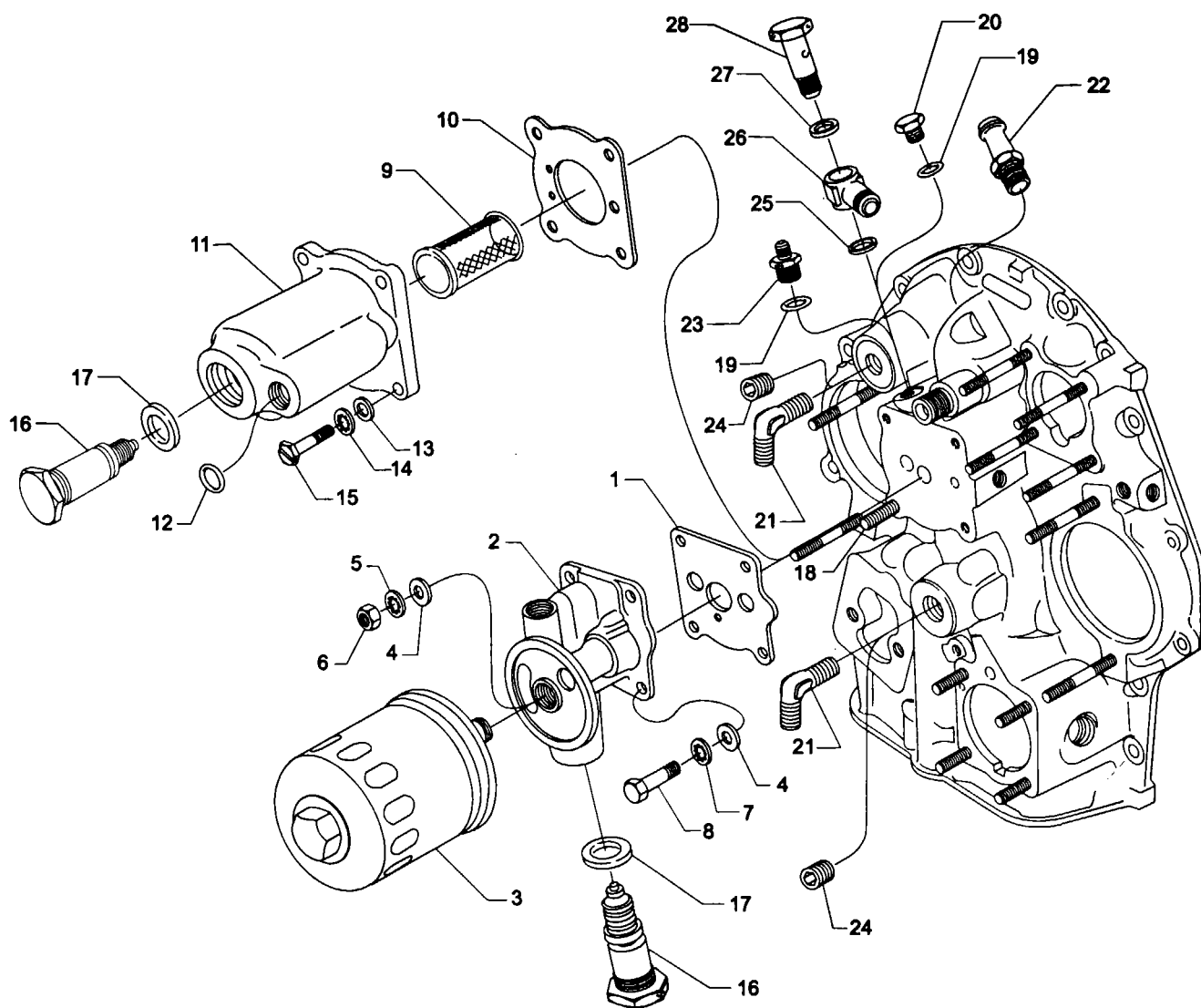


Figure 11 Oil Filter, Oil Cooler Bypass Valve And Fittings

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ACCESSORY HOUSING AND RELATED PARTS VACUUM PUMP DRIVE AND BREATHER ADAPTER

FIG. REF. 12	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	61183	GASKET, Accessory adapter	1			
2	61098	ADAPTER ASSY., Vacuum pump		1	1	1
3	STD-1774	PIN, 1/8 dia. x 1/4 long		1	1	1
4	06A19956	OIL SEAL, 7/8 I.D. x 1-1/2 O.D. x 5/16 wide		1	1	1
5	72970	GEAR ASSY., Vacuum pump driven		1	1	1
6	71596	WASHER, Accessory drive gear		1	1	1
7	8313	GASKET, Vacuum pump	1			
8	LW-16878*	BREATHER, Adapter		1	1	
9	STD-8	WASHER, 1/4 plain		4	4	
10	STD-160	WASHER, 1/4 lock, internal teeth		4	4	
11	STD-1411	NUT, 1/4-20 plain		4	4	
12	AN816-10D	NIPPLE, 1/2 NPT to 5/8 tube		1	1	
13	60430	COVER, Vacuum pump	1			
14	STD-8	WASHER, 1/4 plain	4			
15	STD-160	WASHER, 1/4 lock, internal teeth	4			
16	STD-1411	NUT, 1/4-20 plain	4			

* Optional

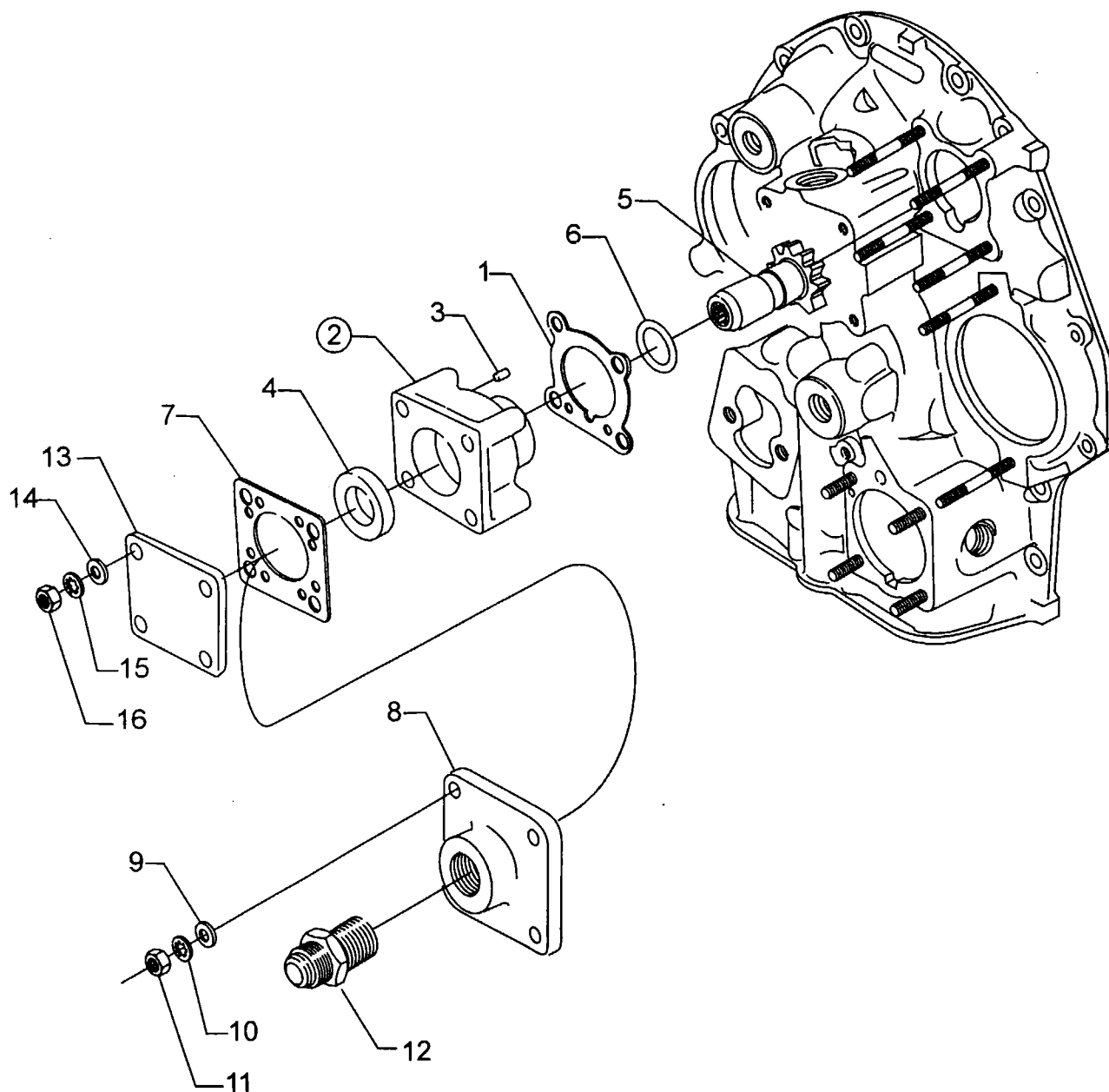


Figure 12 Vacuum, Drive and Breather Adapter

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN CONNECTING RODS, PISTONS AND RING ASSEMBLIES

FIG. REF. 13	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-11750-S	CONNECTING ROD ASSEMBLY	4			
2	LW-13923	BUSHING, Connecting rod, upper	4			
3	75061	BOLT, Connecting rod	8			
4	LW-12186	NUT, Connecting rod bolt	8			
5	18M19389	BEARING, Connecting rod	8			
6	75089	PISTON, Compression ratio, 8.50:1	4			
7	LW-14078 *	PIN, Piston	4			
8	72198 *	PLUG, Piston pin	8			
9	74241	RING, Piston compression	8			
10	14H21950	RING, Piston, oil regulating	4			

* See latest edition of Lycoming Service Instruction No. 1267.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG
WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

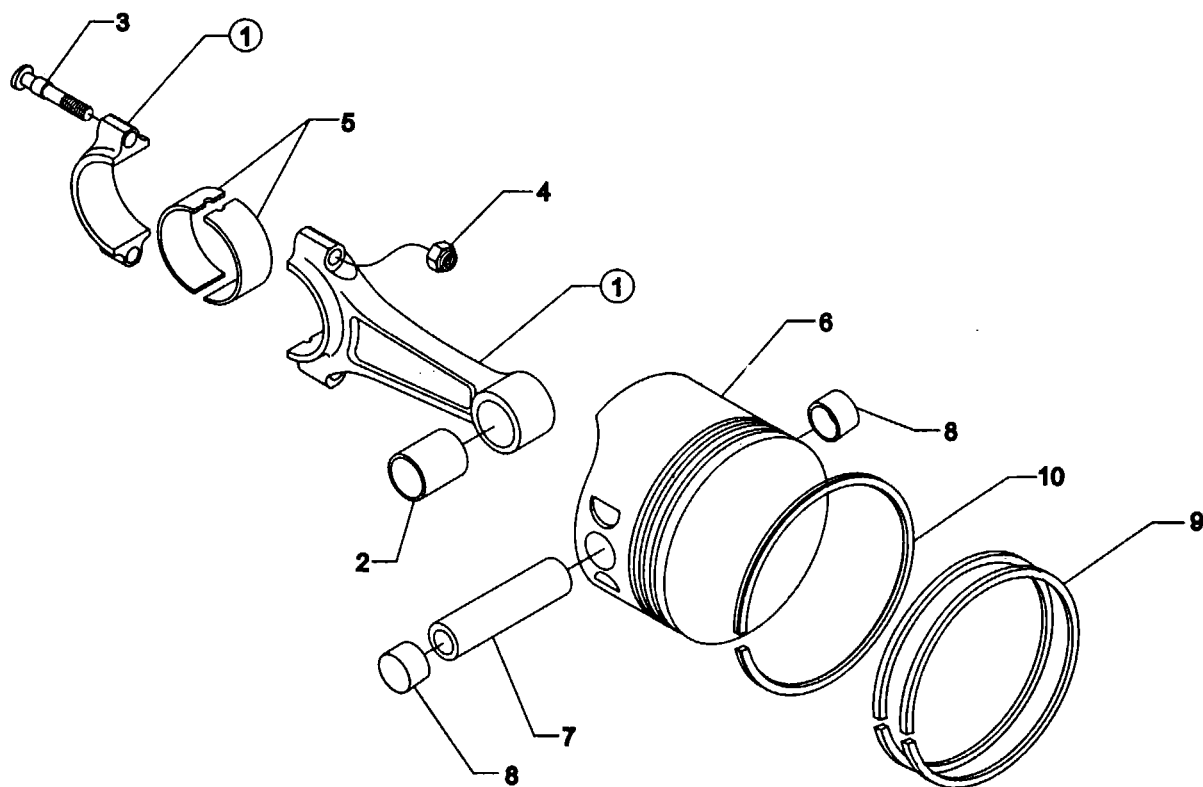


Figure 13 Connecting Rods, Pistons and Ring Assemblies

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN CYLINDER ASSEMBLY

FIG. REF. 14	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-12427	CYLINDER ASSEMBLY	4			
2	72057	SEAT, Intake valve	4			
3	72058	SEAT, Exhaust valve	4			
4	61681 *	GUIDE, Valve intake, flanged	4			
5	16R22291 *	GUIDE, Valve exhaust, flanged	4			
6	66796	INSERT, Spark plug, 18 - 1.5 MM	8			
7	STD-1353	INSERT, No. 10-24 Helicoil x 5/8 long	4			
8	31C-12	STUD, 5/16-18 x 1-1/2 long, (EXH)	8			
9	25C-8	STUD, 1/4-20 x 1.00 long	4			
10	MS20823-6D	ELBOW, 45°, 3/8 flared tube	4			
11	66610	BUSHING, Rocker shaft	16			
12	1102	PLUG, 1/8 pipe	4			
13	77611 **	GASKET, Exhaust flange	4			
	LW-19296 **	GASKET, Exhaust flange	4			
14	61260	FLANGE, Exhaust	4			
15	STD-35	WASHER, 5/16 plain	8			
16	STD-475	WASHER, 5/16 lock, internal teeth	8			
17	STD-1410	NUT, 5/16-18 plain	8			

* See latest edition of Lycoming Service Instruction No. 1256.

** See latest edition of Lycoming Service Instruction No. 1204.

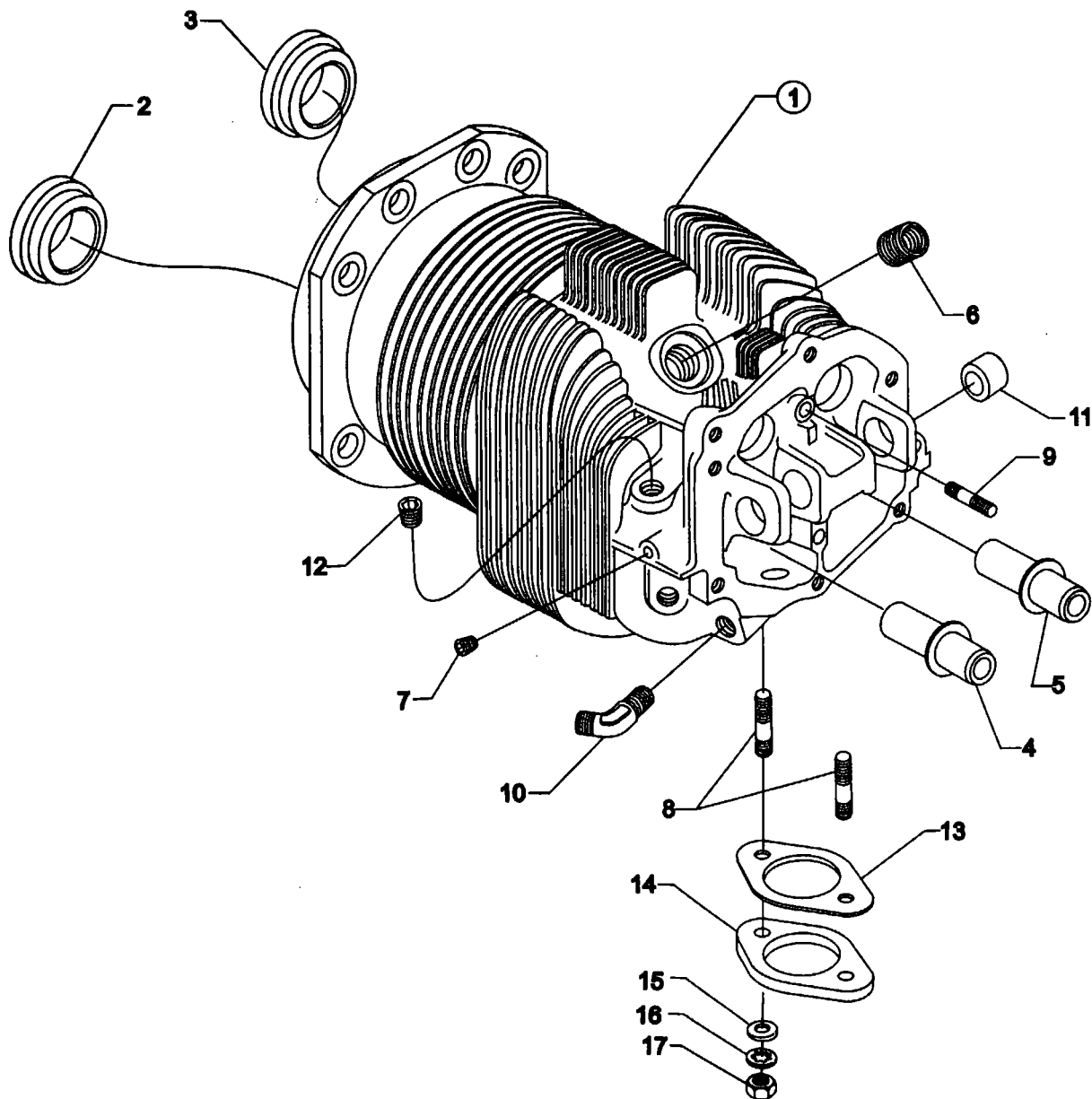


Figure 14 Cylinder Assembly

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN CYLINDER RELATED PARTS AND ROCKER BOX COVERS

FIG. REF. 15	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	15F19957-34 *	ROD ASSY., Push (A total of 8 reqd.)	AR			
	15F19957-35 *	ROD ASSY., Push (A total of 8 reqd.)	AR			
	15F19957-36 *	ROD ASSY., Push (A total of 8 reqd.)	AR			
	15F19957-37 *	ROD ASSY., Push (A total of 8 reqd.)	AR			
2	17F19357 **	ROCKER ASSY., Valve	8			
3	74637	BUSHING, Valve rocker	8			
4	LW-13790	SHAFT, Valve rocker	4			
5	LW-12892	THRUST BUTTON, Rocker shaft	8			
6	71481	RING, Oil seal 3/32 dia. x 4-27/32 long	4			
7	74887	SPACER, 33/64 I.D. x 7/8 O.D. x 3/8 thick	2			
8	383-B	NUT, 3/8-24 plain	16			
9	STD-2090	NUT, 1/2-20 plain	18			

* See latest edition of Lycoming Service Instruction No. 1060 for complete push rod application.

** Due to the size of the area where the part number is stamped, the last five digits may be all that is shown (19357).

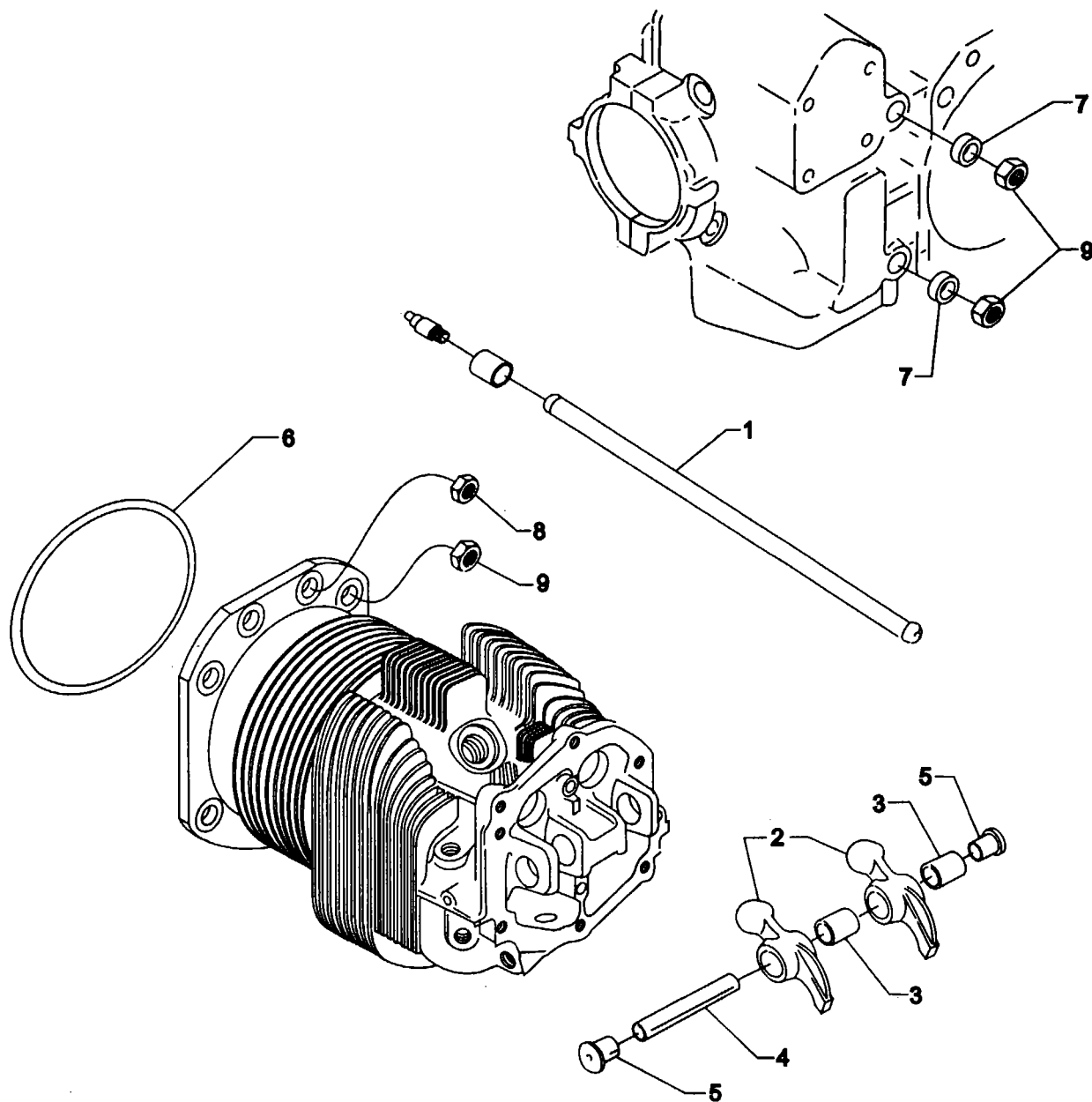


Figure 15 Cylinder Related Parts and Rocker Box Cover

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES

FIG. REF. 16	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	STD-684	NIPPLE, Straight, 3/8 I.D. hose	4			
2	STD-1821	HOSE, 3/8 x 2-1/2 long	4			
3	LW-15592-5-05	CLAMP, Hose	8			
4	68759	TUBE ASSY., Cyl. head oil drain, cyl. no. 1	1			
5	68760	TUBE ASSY., Cyl. head oil drain, cyl. no. 2	1			
6	68761	TUBE ASSY., Cyl. head oil drain, cyls. no. 3 & 4	2			
7	75339	BAFFLE ASSY., Intercylinder		2	1	2
	75339	BAFFLE ASSY., Intercylinder			1	
8	LW-13389	BAFFLE ASSY., Intercylinder			1	
9	71611	RETAINER, Intercylinder baffle	2			
10	71610	HOOK, Intercylinder baffle retainer	2			
11	MS35489-20X*	GROMMET			1	
12	75906	GASKET, Rocker box cover	4			
13	61247	COVER, Rocker box	4			
14	STD-1925	SCREW, 1/4-20 x 5/8 long, pan head., self-locking	24			

* REQ'D LW-13389 ONLY

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG
WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

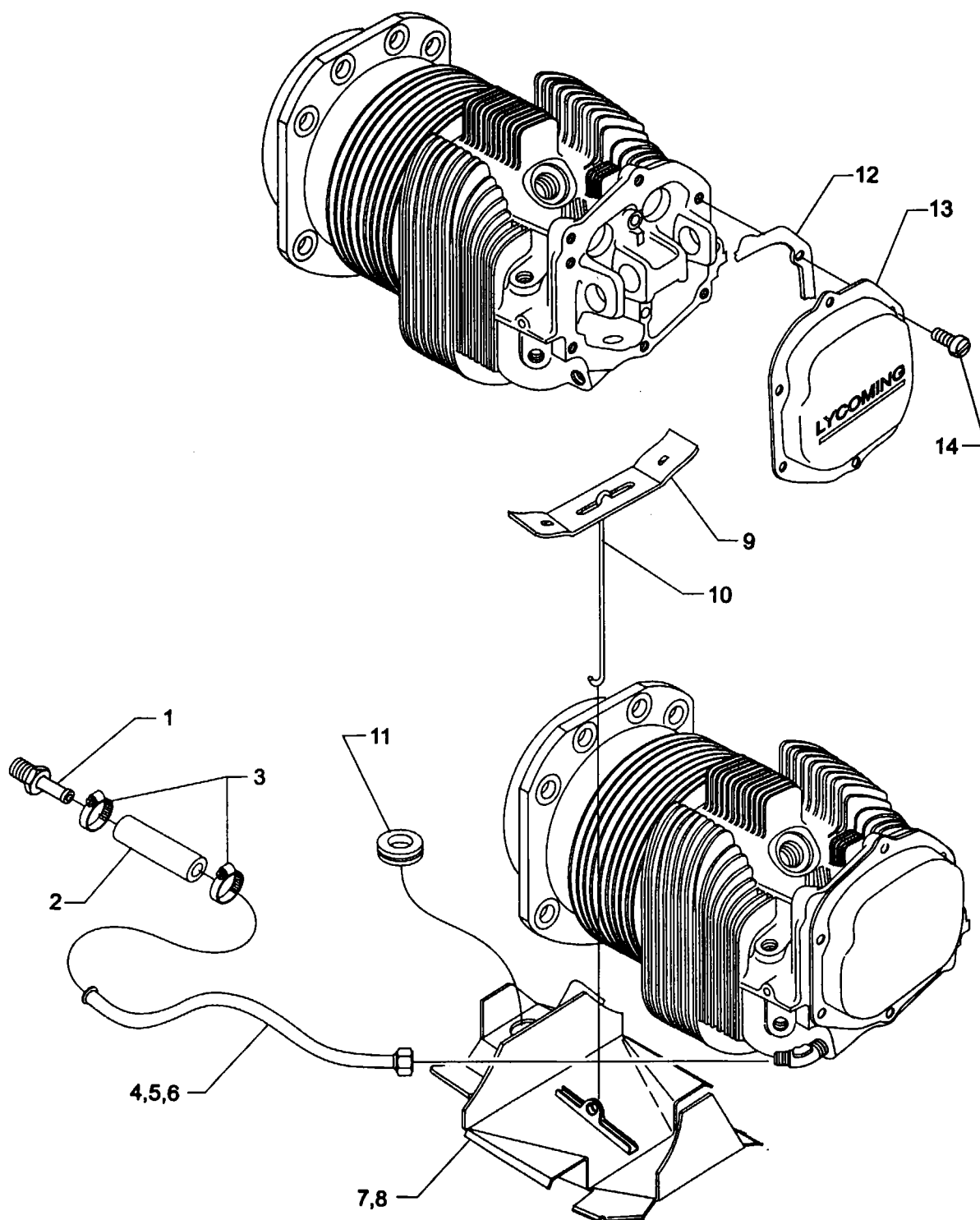


Figure 16 Cylinder Head Drain Tubes and Intercylinder Cooling Baffles

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

CYLINDER, PISTON AND VALVE TRAIN VALVE ASSEMBLY

FIG. REF. 17	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1 H
1	73938	VALVE, Intake	4			
2	LW-19001	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-16475	SEAT, Valve spring, upper exhaust (rotator type)	4			
9	60009	KEY, Valve, intake	8			
10	17C21191	KEY, Valve, exhaust (rotator type)	8			
11	17C19386	CAP, Valve stem, exhaust (rotator type)	4			
12	78290	PLUNGER ASSY., Hydraulic tappet	8			
13	15B21319	SOCKET, Hydraulic tappet	8			
14	LW-11485	SHROUD TUBE ASSY., Push rod	8			
15	LW-14995	SPRING, Shroud tube	4			
16	LW-12272	LOCKPLATE, Shroud tube	4			
17	STD-1411	NUT, 1/4-20 plain	4			
18	LW-18661	SEAL, Shroud tube (C 'Case)	8			
19	70310	SEAL, Shroud tube (Cyl)	8			

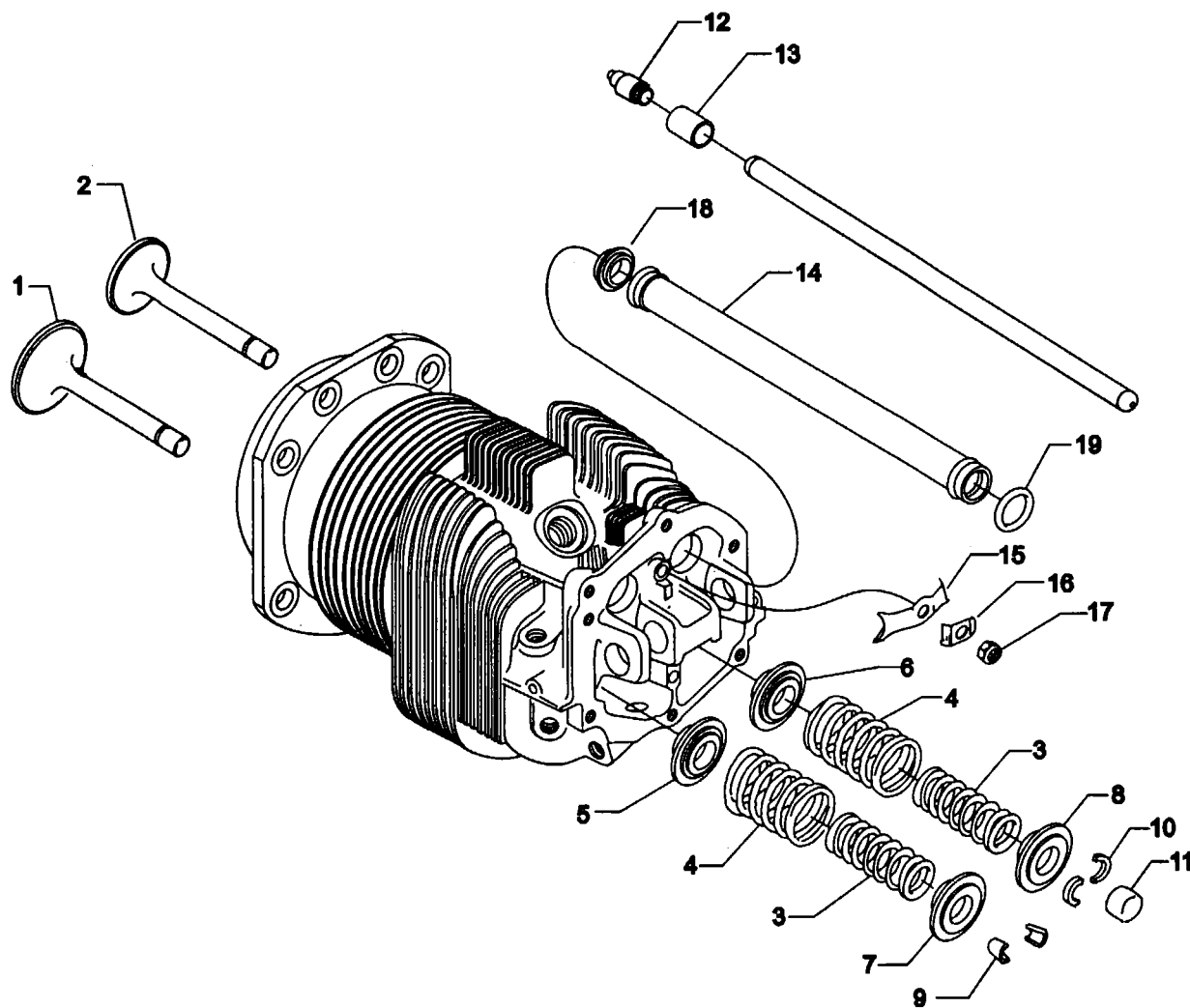


Figure 17 valve Assembly

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

LASER MAGNETOS, MAGNETO DRIVES, SLICK HARNESSES AND SPARK PLUGS

FIG. REF. 18	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	61665	GEAR, Magneto, impulse coupling			1	1
2	STD-713	COTTER PIN, 3/32 dia. x 3/4 long			2	2
3	68C19622	GEAR, Magneto			1	1
4	62224	GASKET, Magneto adapter			1	1
5	LW-12706	ADAPTER, Magneto, impulse coupling			1	1
6	LW-12681	GASKET, Magneto	2			
7	66GP-0SANN	MAGNETO, PLAIN	1			
	66B21778	MAGNETO, S4LSC		1		
	66K22442 +	MAGNETO, Laser, Left (4771), Impulse	1			
8	66GR25SANN	MAGNETO, Retard		1	1	
	66B21772	MAGNETO, S4LSC		1		
	66K22445 +	MAGNETO, Laser, Right (4770)	1			
9	STD-35	WASHER, 5/16 plain	2			
10	67P20428 +	HARNESS ASSY., Right, Slick Model M-2990	1			
11	67P20429 +	HARNESS ASSY., Left, Slick Model M-2989	1			
12	66M21195	CLAMP, Magneto	4			
13	STD-475	WASHER, 5/16 lock, internal teeth	4			
14	STD-1410	NUT, 5/16-18 plain	4			
15	1182-E7 *	SPARK PLUG, Champion (REM38E) or Auburn (SR8)	8			
16	67Y22441-43 **	HARNESS ASSY., Laser ignition	1			
17	66SLC-1001-03 **	CONTROLLER, Laser (12V)	1			
***	01P19762-1-1	BAG, Magneto harness attaching	1			

*Item No. 15 spark plugs are used in current production only. Additional spark plugs are available for this engine.
See latest edition of Lycoming Service Instruction No. 1042 for complete listing of all approved spark plugs.

**Ship loose with engine.

***See page 4-2 for a breakdown of individual parts contained in the magneto and harness attaching parts bag. These parts to be attached by customer per engine line drawing included in each bag.

+ A P/N L-1540 Laser Instruction Manual is included.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

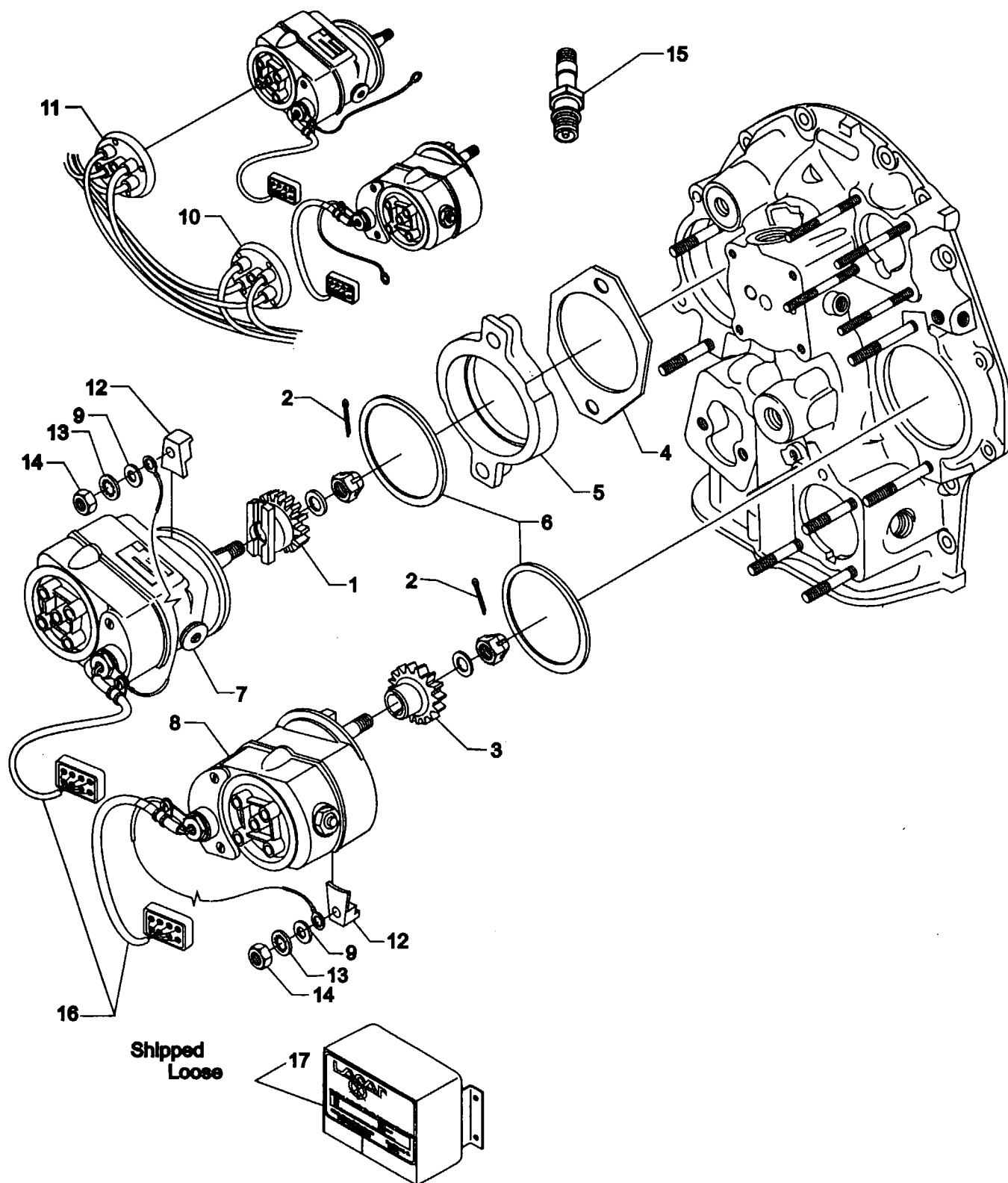


Figure 18 Laser Magnetos, Magneto Drives, Slick Harnesses and Spark Plugs

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

SLICK MAGNETOS, MAGNETO DRIVES, SLICK HARNESSES AND SPARK PLUGS

FIG. REF. 19	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	61665	GEAR, Magneto, impulse coupling			2	1
	61665	GEAR, Magneto, impulse coupling				
2	STD-713	COTTER PIN, 3/32 dia. x 3/4 long	2			
3	68C19622	GEAR, Magneto		1		1
	68C19622	GEAR, Magneto				
4	62224	GASKET, Magneto adapter			2	1
	62224	GASKET, Magneto adapter		2		
5	LW-12706	ADAPTER, Magneto, impulse coupling			2	1
	LW-12706	ADAPTER, Magneto, impulse coupling				
6	LW-12681	GASKET, Magneto			2	2
7	66GP-OSANN	MAGNETO, Slick, Plain (4370)			1	1
8	66GR25SANN	MAGNETO, Slick, Retard (4347)				
9	66GC25SFNN	MAGNETO, Slick, Impulse (4373)			2	1
	66GC25SFNN	MAGNETO, Slick, Impulse (4373)				
10	67P20414	HARNESS ASSY., Right, Slick Model M-2982		1	1	
	67P20428	HARNESS ASSY., Right, Slick Model M-2990			1	1
11	67P20415	HARNESS ASSY., Left, Slick Model M-2981			1	
	67P20429	HARNESS ASSY., Left, Slick Model M-2989			1	1
12	66M21195	CLAMP, Magneto			4	4
13	STD-475	WASHER, 5/16 lock, internal teeth			4	4
14	STD-1410	NUT, 5/16-18 plain			4	4
15	1182-E7 *	SPARK PLUG, Champion (REM38E) or Auburn (SR8)			8	4
**	01P19762-1-1	BAG, Magneto harness attaching				1
**	01P19762-1-2	BAG, Magneto harness attaching		1	1	

*Item No. 15 spark plugs are used in current production only. Additional spark plugs are available for this engine.
See latest edition of Lycoming Service Instruction No. 1042 for complete listing of all approved spark plugs.

**See page 4-4 for a breakdown of individual parts contained in the magneto and harness attaching parts bag. These parts to be attached by customer per engine line drawing included in each bag.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

P/N 01P19762-1-1		
LW-16266-25-25	CLIP, ONE WIRE	2
LW-14060	CLIP, TWO WIRE	3
STD-8	WASHER, .250 PLAIN	8
STD-1874	SCREW, .250-20 X .81 LONG	6
76734	ZIP STRAP	8
LW-16266-25-50	CLAMP	1
STD-1411	NUT, .250 -20 PLAIN	2
STD-696	WASHER, .250 PLAIN (THIN)	4
STD-1916	SCREW, .250-20 X 1.13 LONG	3
LW-M-2375	PLATE, SPARK PLUG CABLE	2
P/N 01P19762-1-2		
LW-16266-25-25	CLIP, ONE WIRE	2
LW-14060	CLIP, TWO WIRE	3
STD-8	WASHER, .250 PLAIN	8
STD-1874	SCREW, .250-20 X .81 LONG	6
76734	ZIP STRAP	8
LW-16266-25-50	CLAMP	1
STD-696	WASHER, .250 PLAIN (THIN)	4
STD-1916	SCREW, .250-20 X 1.13 LONG	3
LW-M-2375	PLATE, SPARK PLUG CABLE	2

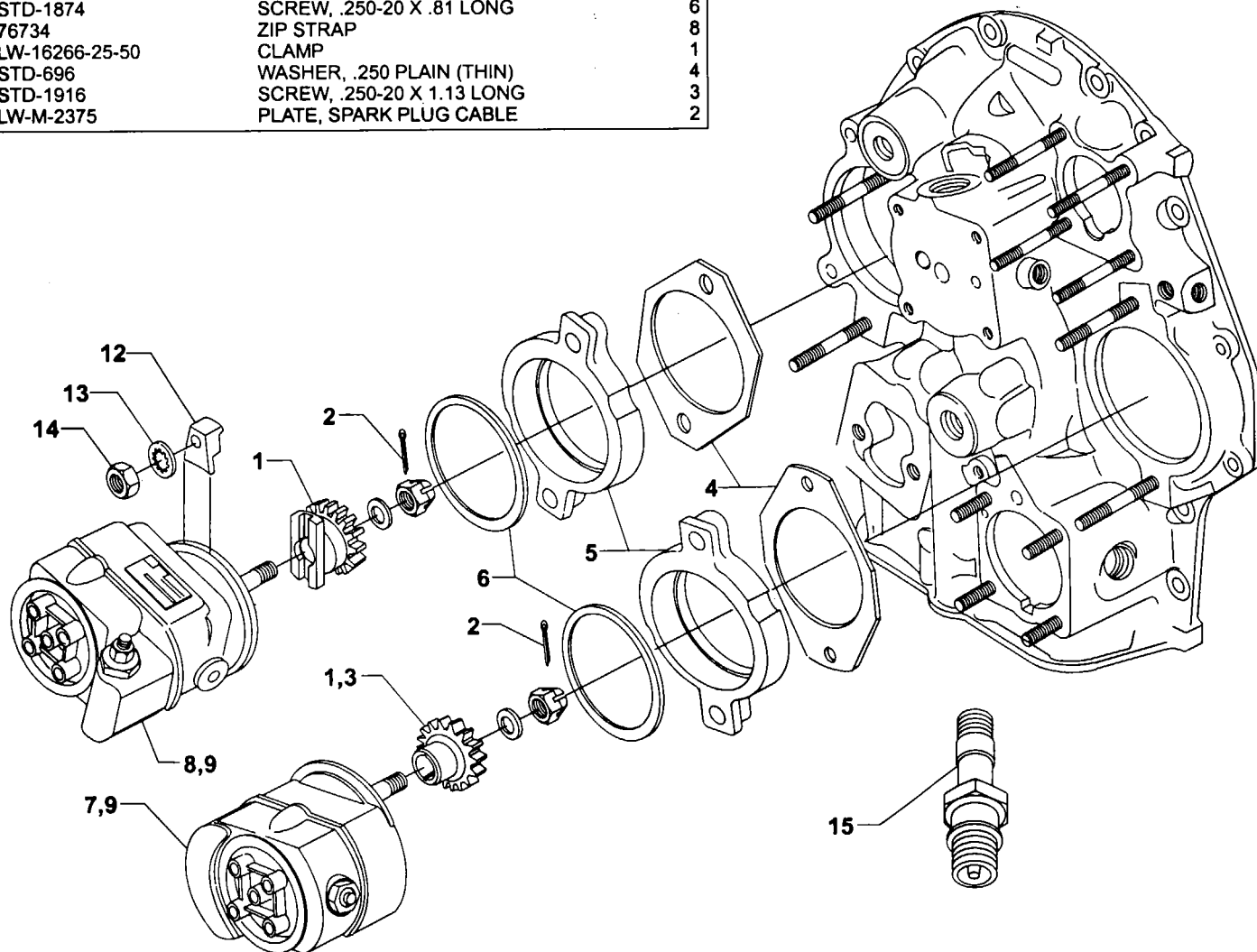
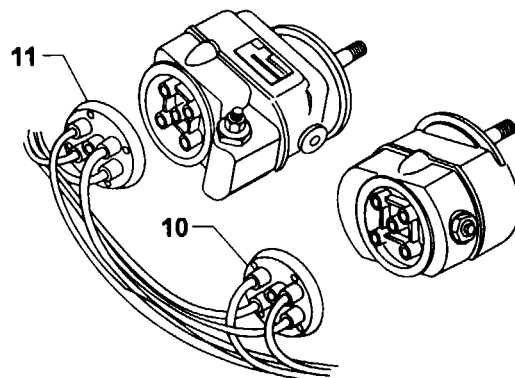


Figure 19 Slick Magnetos, Magneto Drives, Slick Harnesses and Spark Plugs

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

IGNITION SYSTEM

BENDIX COVER MAGNETOS, MAGNETO DRIVES, SLICK HARNESSES AND SPARK PLUGS

FIG. REF. 20	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	68C19622	GEAR, Magneto		2	2	
2	62224	GASKET, Magneto		2		
3	66B21778	MAGNETO, S4LSC-204 (plain)		1		
4	66B21772	MAGNETO, S4LSC-200 (Ret)		1		
5	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick		4		
6	STD-475	WASHER, 5/16 lock, internal teeth		4		
7	STD-1410	NUT, 5/16-18 plain		4		
8	LW-M-2403	HARNESS ASSY., Slick, Left	1			
9	LW-M-2404	HARNESS ASSY., Slick, Right	1			
10	LW-M-2375	PLATE, Spark plug cable, 2 wire	2			
11	72351	SCREW, No. 10-32 self-locking	8			
12	LW-14060	CLIP, Two wire	2			
13	STD-8	WASHER, 1/4 plain	2			
14	STD-160	WASHER, 1/4 lock, internal teeth	2			
15	STD-1916	SCREW, 1/4-20 x 1-1/8 long, fill. head.	1			
16	LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. head.	1			
17	STD-1411	NUT, 1/4-20 plain	2			
18	LW-18959-175-25	CLAMP, 1-3/4 I.D.	4			
19	STD-553	SCREW, No. 6-32 x 1/2 long, rd. head.	4			
20	MS21044N06	NUT, No. 6-32 self-locking	4			
21	76734	ZIP STRAP		2	2	
22	1182-E7 *	SPARK PLUG, Champion (REM38E) or Auburn (SR8)	8			

- * Item No. 22 spark plugs are used in current production only. Additional spark-plugs are available for this engine.
See latest edition of Lycoming Service Instruction No. 1042 for complete listing of all approved spark plugs.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

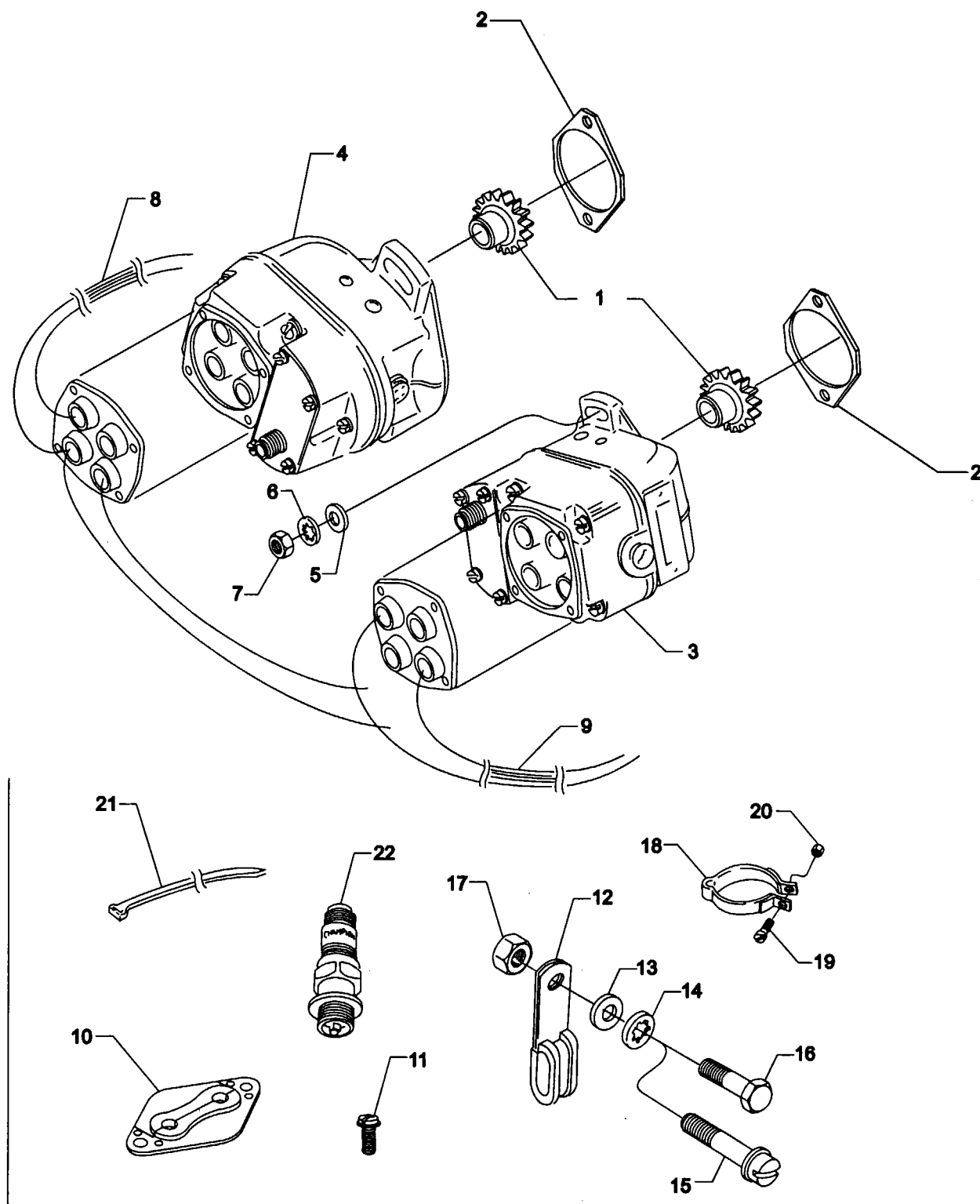


Figure 20 Short Cover Bendix Magnetos, Magneto Drives, Slick Harnesses and Spark Plugs

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM **SKY-TEC STARTER AND ATTACHING PARTS**

FIG. REF 21	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	31A22100	STARTER, Sky-Tec (149-12PM)			1	1
	31B22101	STARTER, Sky-Tec (149-24PM)		1	1	
2	STD-475	WASHER, 5/16 lock, internal teeth	4			
3	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head.	1			
4	STD-1410	NUT, 5/16-18 plain	3			

NOTE

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

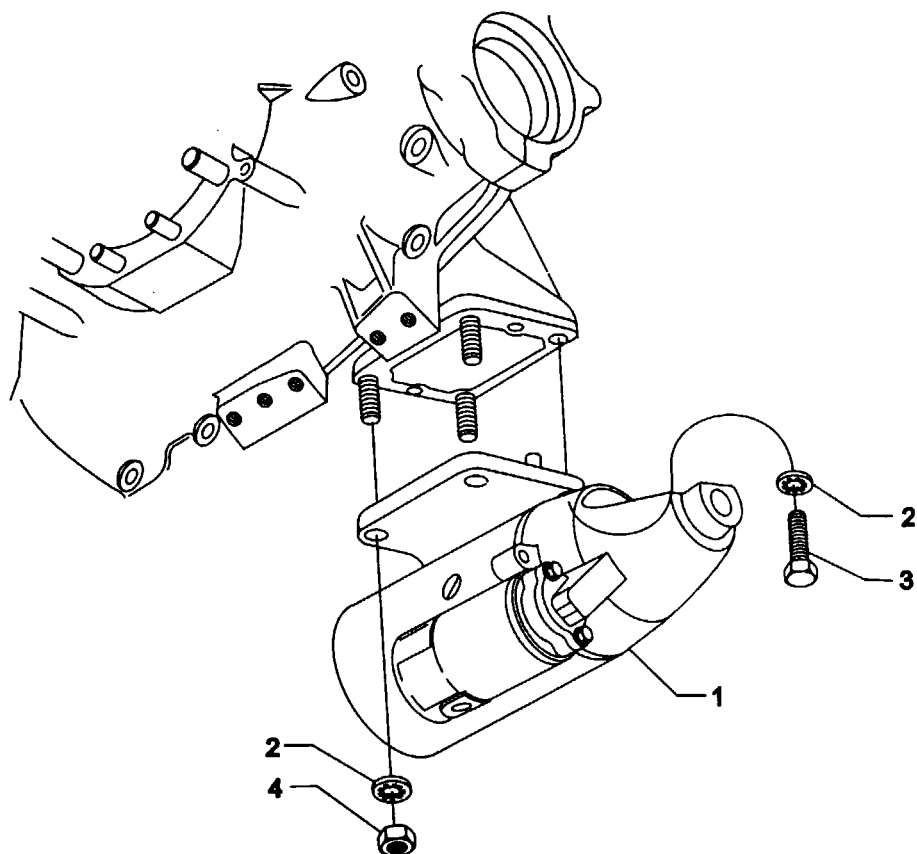


Figure 21 Sky-Tec Starter and Attaching Parts

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM ELECTROSYSTEMS STARTER AND ATTACHING PARTS

FIG. REF 22	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	31A22470	STARTER, 12/14 pitch, 12 volt (MZ6222)		1	1	
2	STD-35	WASHER, 5/16 plain		4	4	
3	STD-475	WASHER, 5/16 lock, internal teeth		4	4	
4	LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. head.		1	1	
5	STD-1410	NUT, 5/16-18 plain		3	3	

NOTE

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

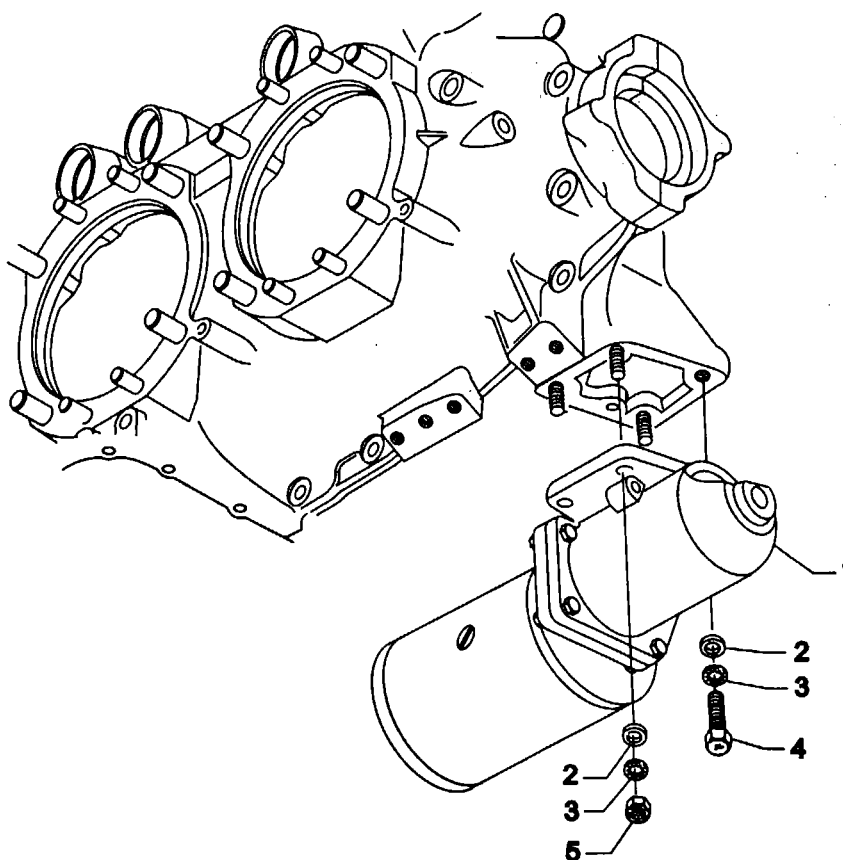


Figure 22 ElectroSystems Starter and Attaching Parts

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

ELECTRICAL SYSTEM ALTERNATOR ASSEMBLY AND BELT

FIG. REF. 23	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-14371	ALTERNATOR ASSY., 12 Volt, 60 Amp		1	1	
	32C19553	ALTERNATOR ASSY., 24 Volt, 70 Amp.			1	
2	LW-14313	ALTERNATOR, ALY-8520 12 Volt, 60 Amp	1			
	LW-14326	ALTERNATOR, ALU-8521-LS 24 Volt, 70 Amp.	1			
3	36B19484	PULLEY, Alternator	1			
4	37A19773-376	BELT, Alternator drive, 3/8 wide	1			

NOTE

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

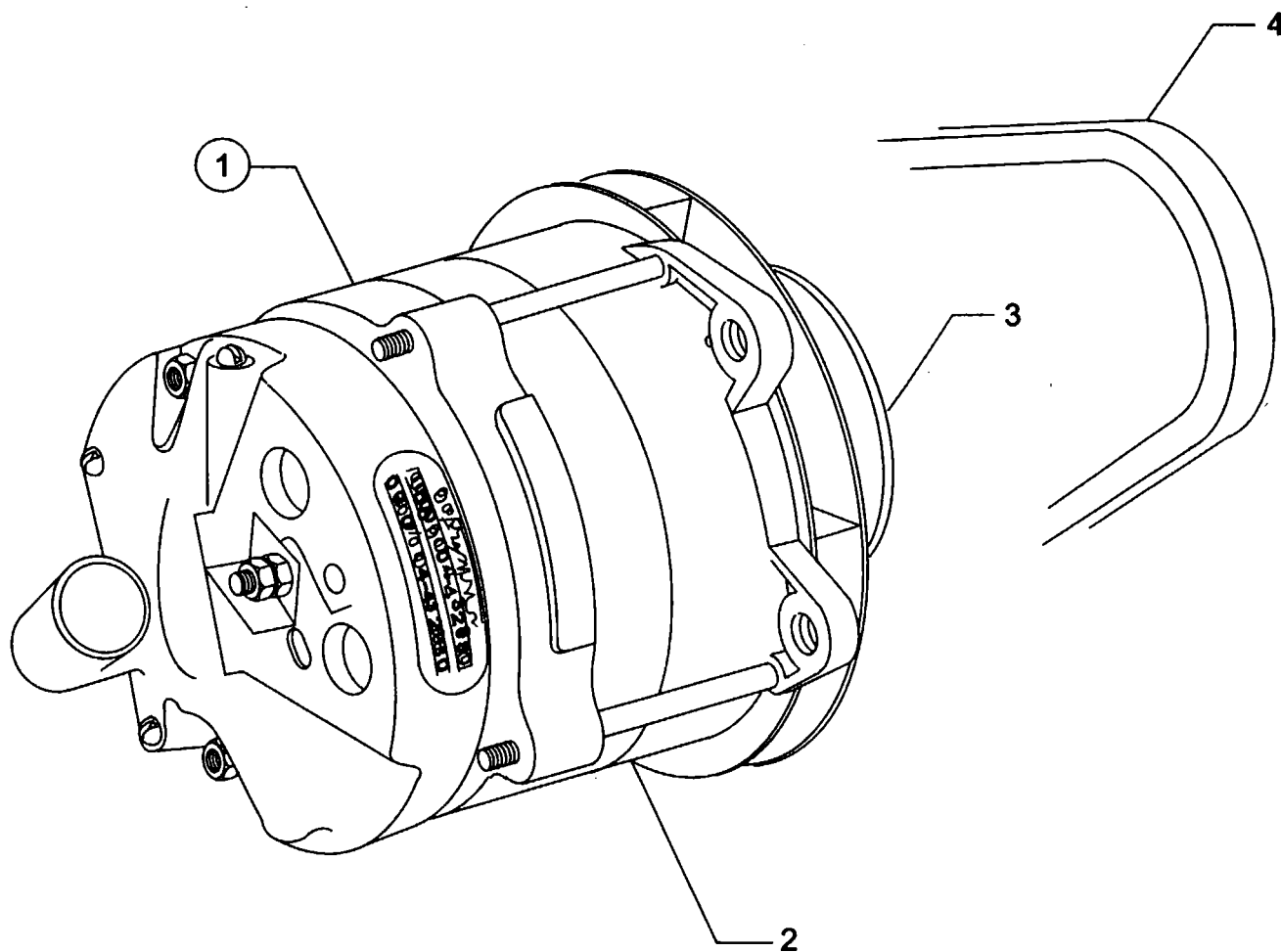


Figure 23 Alternator Assembly and Belt

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

**ELECTRICAL SYSTEM
ALTERNATOR MOUNTING AND ATTACHING PARTS**

FIG. REF. 24	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	07A19474	BRACKET, Alternator	1			
2	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1			
3	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head.	2			
4	75380	LINK, Alternator adjusting		1	1	1
5	STD-35	WASHER, 5/16 plain	1			
6	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head.	1		1	
7	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick		1	1	
8	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head.		1	1	
9	07F23268	STRUT, Alternator support		1	1	
10	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head.		1	1	2
11	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick		1	1	
12	AN6-14	BOLT, 3/8-24 x 1-37/64 long, hex. head., drilled end		1	1	
13	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick		1	1	
14	STD-872	NUT, 3/8-24 slotted		1	1	
15	STD-713	COTTER PIN, 3/32 dia. x 3/4 long		1	1	
16	AN6-16	BOLT, 3/8-24 x 1-53/64 long, hex. head., drilled end		1	1	
17	76534	SHIM, 1-1/8 O.D. x 13/32 I.D. x .005 thick		AR	1	
18	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick		AR	1	
19	STD-872	NUT, 3/8-24 slotted		1	1	
20	STD-713	COTTER PIN, 3/32 dia. x 3/4 long		1	1	

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

OIL SUMP AND INDUCTION SYSTEM **OIL SUMP ASSEMBLY AND AEROBATIC COMPONENTS**

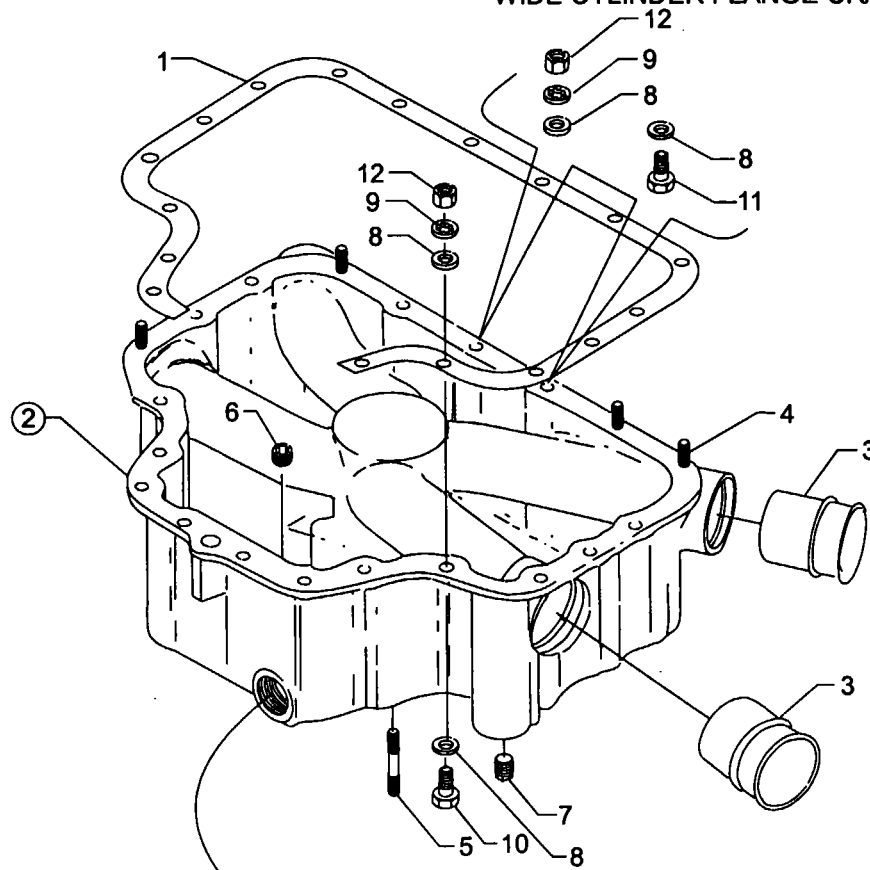
FIG. REF. 25	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-13353	GASKET, Oil sump	1			
2	78915	SUMP ASSEMBLY., Oil		1	1	
	LW-13861	SUMP ASSEMBLY., Oil	1			
3	78914	CONNECTION, Intake pipe	4			
4	61400 *	STUD, 1/4-20 x 1-3/16 long		4	4	
	25C-10 **	STUD, 1/4-20 x 1-1/4 long	4			
5	31C-15 *	STUD, 5/16-18 x 1-7/8 long				
	31C-17 **	STUD, 5/16-18 x 2-1/8 long	4			
6	STD-91	PLUG, 1/2-14 NPT, Allen head	1			
7	STD-551 *	PLUG, 1/2-14 NPT, Sq. head.	4			
8	STD-8	WASHER, 1/4 plain	28			
9	STD-160	WASHER, 1/4 lock, internal teeth	20			
10	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head.	14			
11	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head.	2			
12	STD-1411	NUT, 1/4-20 plain	12			
13	LW-13752	PLUG, Sump	1			
14	70484	SCREEN, Oil suction	1			
	LW-13888 **	SCREEN, Oil suction		1	1	
15	LW-14035	FITTING, Sump (oil suction)				1
	LW-13751 **	FITTING, Sump (oil suction)		1	1	
16	LW-13753	FITTING, Sump (oil strainer)		1	1	
17	LW-13754	FITTING, Sump (oil return)	1			
18	57A21009	OIL SEPARATOR	1			
19	57B19829	OIL VALVE	1			
20	LW-13755 **	BREATHER, Tee	1			
21	LW-14149	FITTING, Sump (oil strainer)				1

* Use with P/N 78915 Sump Assembly.

** Use with P/N LW-13861 Sump Assembly.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES



-NOTE-

HOSES & OIL LINES ARE
NOT FURNISHED WITH
(AEROBATIC) ACCESSORY
KIT

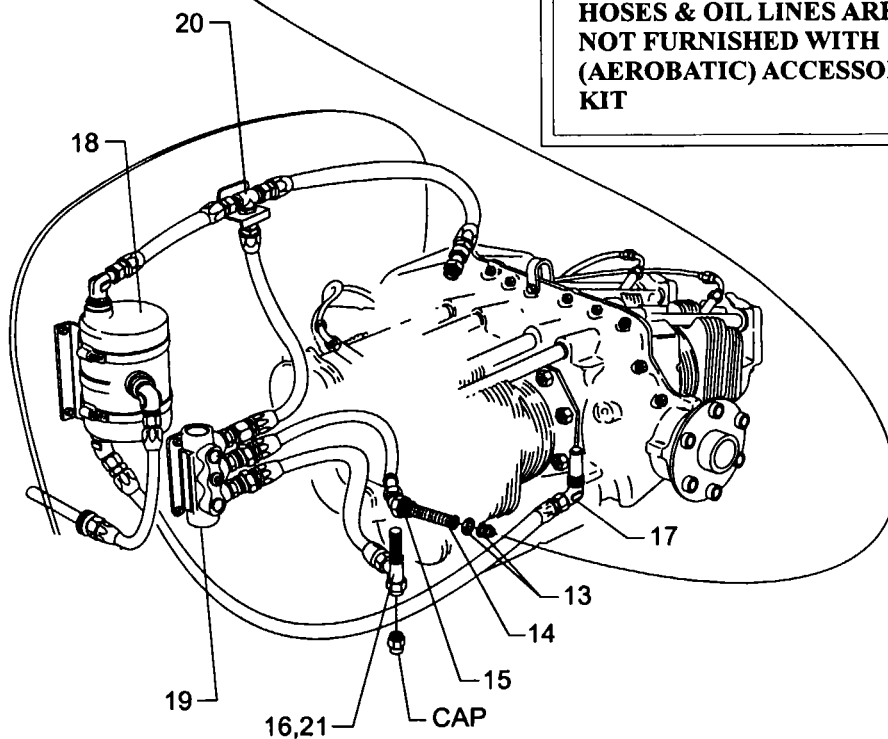


Figure 25 Oil Sump Assembly and Aerobic Components

**OIL SUMP AND INDUCTION SYSTEM
INTAKE PIPES AND ATTACHING PARTS**

FIG. REF. 26	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	70485	PIPE, Intake	4			
2	69603	HOSE, 1-3/4 I.D. x 2-3/16 O.D. x 1-3/4 long	4			
3	LW-15592-8-28	CLAMP, Hose	8			
4	71973	GASKET, two bolt flange, 1-3/4 I.D.	4			
5	73346	FLANGE, Intake pipe upper	4			
6	STD-8	WASHER, 1/4 plain	8			
7	STD-160	WASHER, 1/4 lock, internal teeth	8			
8	LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. head.	8			

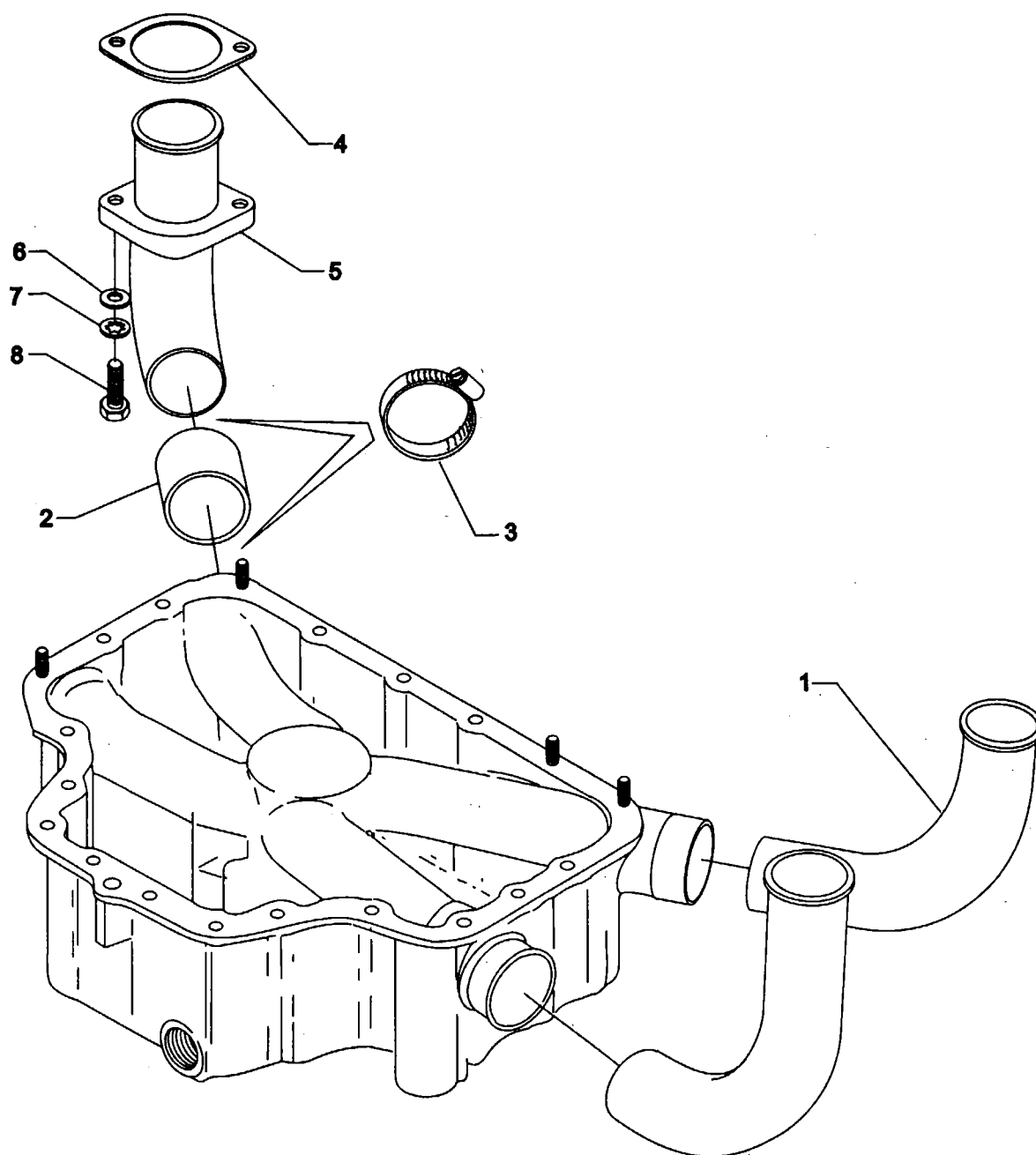


Figure 26 Intake Pipes and Attaching Parts

**OIL SUMP AND INDUCTION SYSTEM
FUEL INJECTORS, FUEL MANIFOLDS AND INJECTION NOZZLES**

FIG. REF. 27	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	66224	GASKET, Fuel injector	2			
2	61J22991	FUEL INJECTOR (2576596-2)		1		
	61J21971	FUEL INJECTOR (2576524-2)			1	
3	STD-35	WASHER, 5/16 plain		4	4	
4	STD-1410	NUT, 5/16-18 plain		4	4	
5	STD-475	WASHER, 5/16 lock, internal teeth		4	4	
6	LW-18854	NOZZLE ASSY. (2524917)		4		
	LW-18265	NOZZLE, Injection (2524864)			4	
7	63B22796	MANIFOLD ASSY., Fuel			1	
	63B22998	ELBOW, 1/8 NPT to 1/4 tube, 90°		1		
8	MS20822-4			1	1	
9	AN791-2	ELBOW, Union, 1/8 tube, 45°		4	4	
10	STD-148	NIPPLE, Union, 1/8 NPT		1	1	
11	1102	PLUG, 1/8 pipe		2	2	
12	75009	BRACKET, Fuel manifold		1	1	
13	STD-251	WASHER, No. 10 internal lock		4	4	
14	STD-82	SCREW, No. 10-24 x 1/2 long, fill. head.		4	4	
15	STD-160	WASHER, 1/4 lock, internal teeth		1	1	
16	LW-25-0.50	BOLT, 1/4-20 x 1/2 long, hex. head.		1	1	

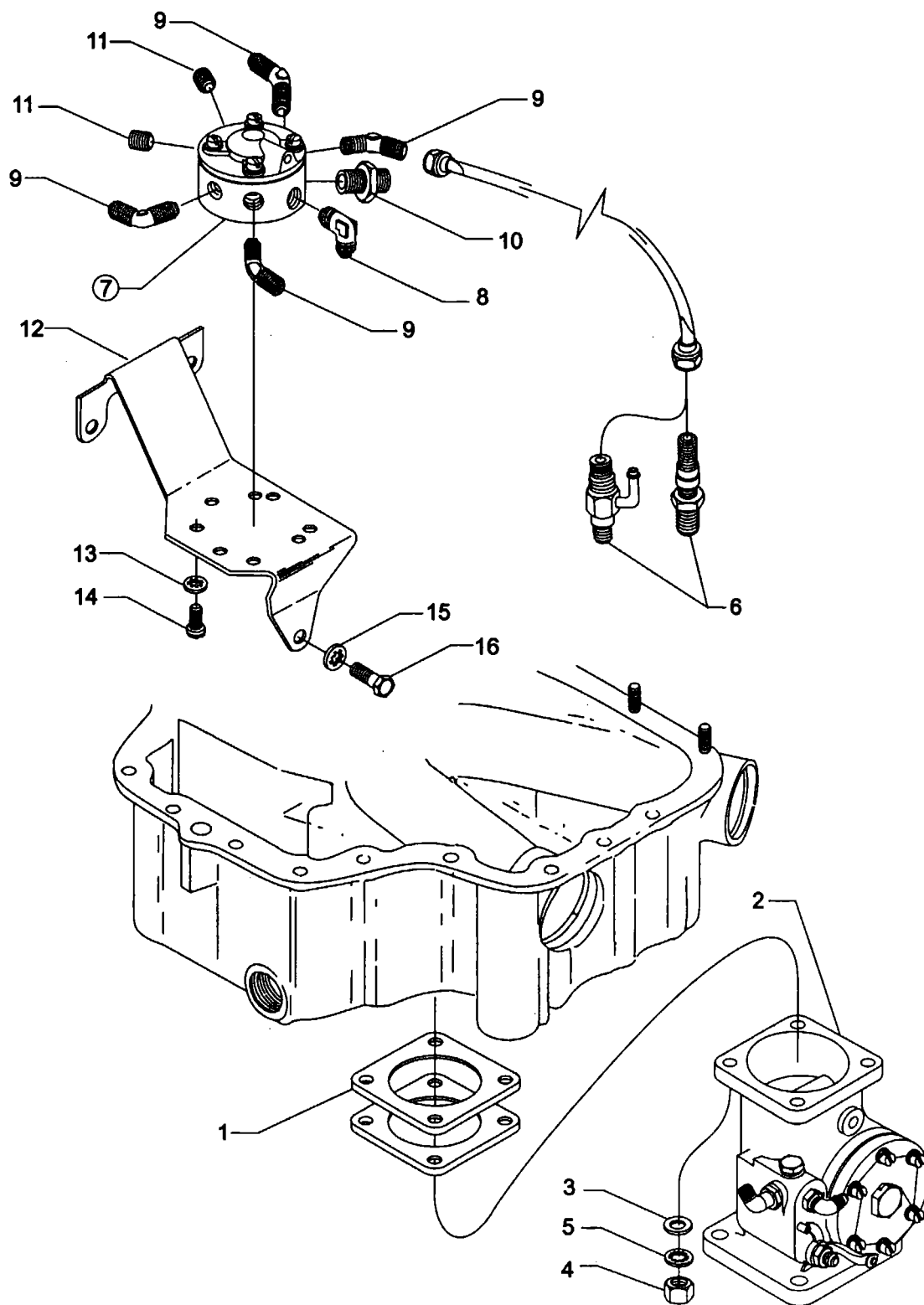


Figure 27 Fuel Injectors, Fuel Manifolds and Injection Nozzles

OIL SUMP AND INDUCTION SYSTEM
FUEL INJECTORS, FUEL MANIFOLDS AND INJECTION NOZZLES

FIG. REF. 28	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	66224	GASKET, Fuel injector	2			
2	73161	SPACER, Fuel injector		1	1	1
3	74556	FUEL INJECTOR (2524147-13)		1		1
3A	76817	FUEL INJECTOR (2524291-11)			1	
4	STD-35	WASHER, 5/16 plain	4			
5	STD-1410	NUT, 5/16-18 plain	4			
6	STD-475	WASHER, 5/16 lock, internal teeth	4			
7	LW-18265	NOZZLE, Injection (2524864)	4			
8	75279	MANIFOLD ASSY., Fuel			1	
8A	75280	MANIFOLD ASSY., Fuel		1		
8B	63B21293	MANIFOLD ASSY., Fuel				1
9	MS20822-4	ELBOW, 1/8 NPT to 1/4 tube, 90°		1	1	
	MS20823-4	ELBOW, 1/8 NPT to 1/4 tube				1
10	STD-148	NIPPLE, Union, 1/8 NPT		4		2
	AN791-2	ELBOW, Union, 45°, 1/8 tube			4	2
11	02G21382	NIPPLE, Nozzle pressure gauge	1			
12	1102	PLUG, 1/8 pipe	2			
13	73966	SPACER, Fuel manifold bracket		2		
14	07A23031	BRACKET, Fuel manifold		1		
15	07A23032	BRACKET, Fuel manifold		1		
16	75009	BRACKET, Fuel manifold			1	1
17	STD-1907	SCREW, No. 10-24 x 9/16 long, flat head				
18	STD-1908	WASHER, No. 10 lock, external teeth				
19	STD-251	WASHER, No. 10 internal lock	4			
20	STD-82	SCREW, No. 10-24 x 1/2 long, fill. head.	4			
21	STD-160	WASHER, 1/4 lock, internal teeth			1	1
22	LW-25-0.50	BOLT, 1/4-20 x 1/2 long, hex. head.			1	1

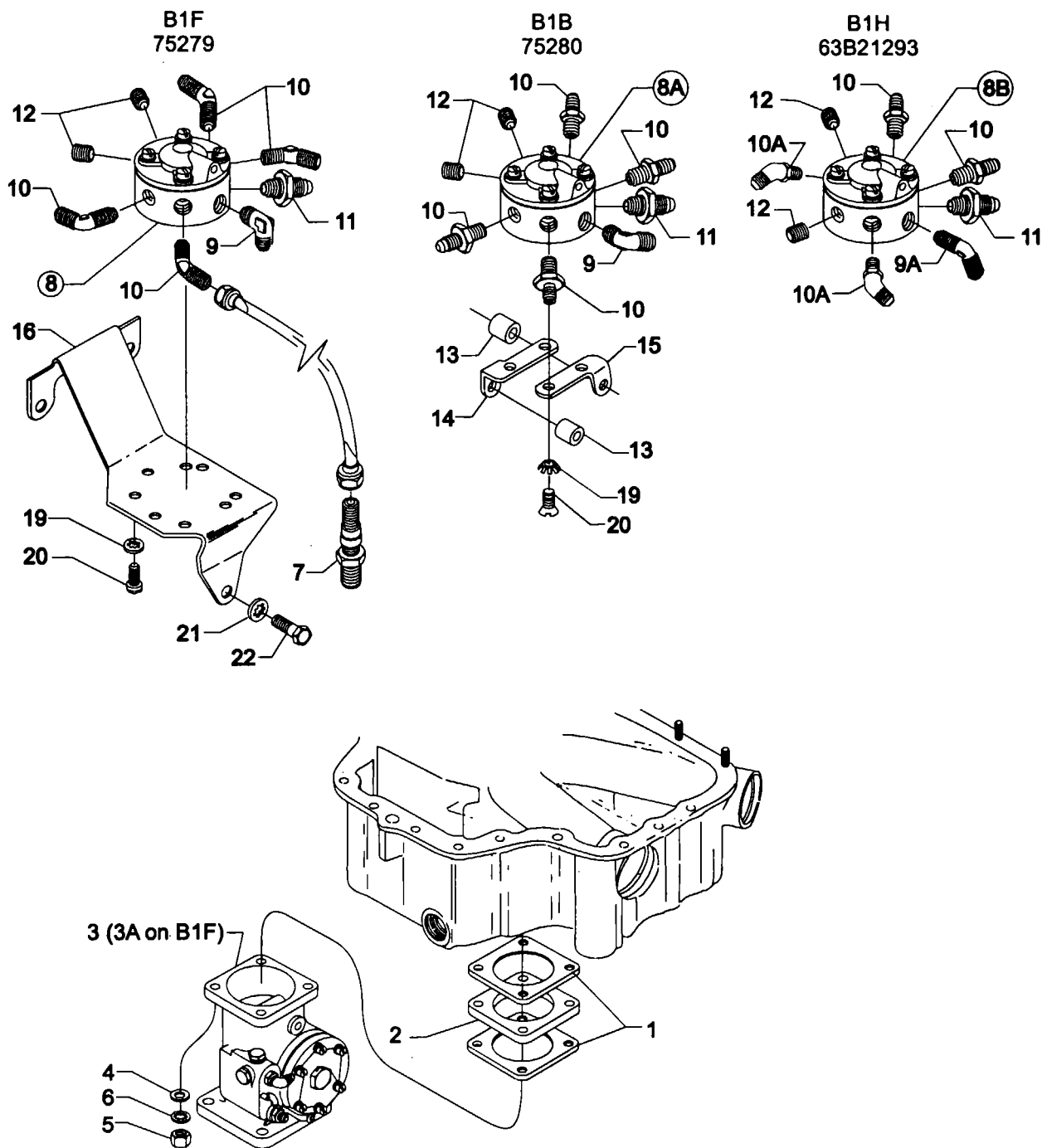


Figure 28 Fuel Injectors, Fuel Manifolds and Injection Nozzles

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES OIL SUMP AND INDUCTION SYSTEM FUEL LINES AND ATTACHING PARTS

FIG. REF. 29	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-12098-0-140	TUBE ASSY., Fuel line CYL 1 & 3			2	2
2	LW-12098-0-210	TUBE ASSY., Fuel line CYL 2 & 4			2	2
3	LW-16266-10-75	CLAMP			4	4
4	LW-16266-10-13	CLAMP, 1/8 dia. for No. 10 screw			6	6
5	STD-860	SCREW, No. 10-32 x 5/8 long, fill. head.			6	6
6	STD-670	LOCKNUT, No. 10-32			6	6
7	73136	BRACKET, Extension, fuel in. line			2	2
8	02M22637-4S204	HOSE ASSY., 1/4 hose, straight Fuel injector to Fuel manifold		1	1	
	LW-12798-4S204	HOSE ASSY., 1/4 hose, straight			1	
	LW-12798-4S340	HOSE ASSY., 1/4 hose, straight				1
9	72815	BRACKET, Support clamp, 90°		1	1	
10	LW-16266-25-63	CLAMP, 5/8 I.D. x 1/4 dia. screw		1	1	
11	STD-425	WASHER, No. 10 plain		1	1	
12	STD-860	SCREW, No. 10-32 x 5/8 long, fill. head.		1	1	
13	STD-670	LOCKNUT, No. 10-32		1	1	
14	LW-12877-6S161	HOSE ASSY., 3/8 hose, 90° elbow Fuel pump to Fuel injector			1	1
15	72377 *	ELBOW, 3/8 flared tube, adj. Fuel pump outlet			1	1

*Requires P/N MS29512-06 O-ring.

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG
WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

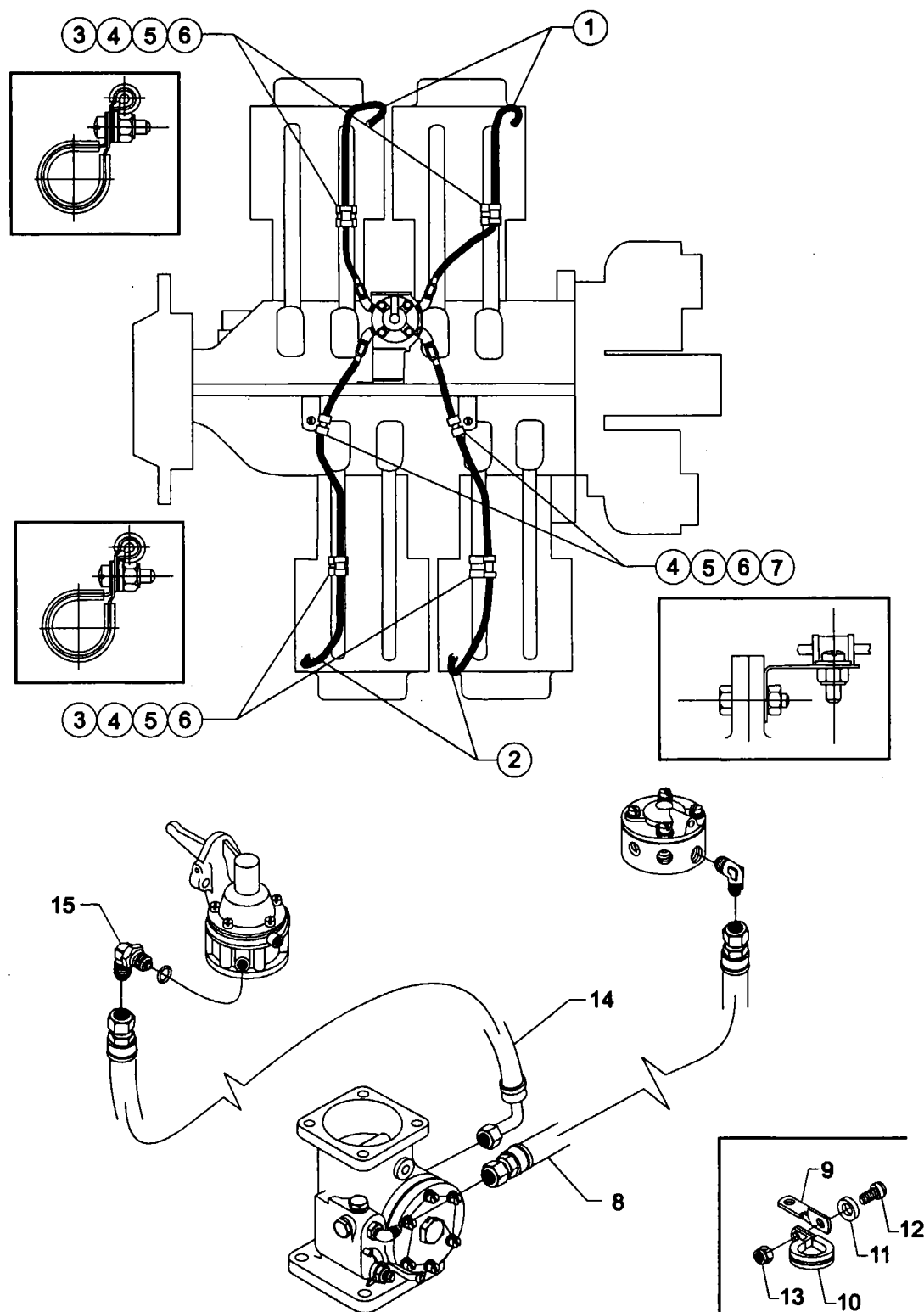


Figure 29 Fuel Lines and Attaching Parts

**OIL SUMP AND INDUCTION SYSTEM
FUEL LINES AND ATTACHING PARTS**

FIG. REF. 30	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY			
			ON ALL	B1B	B1F	B1H
1	LW-12098-0-170	TUBE ASSY., Fuel line		4	4	
2	LW-16266-10-75	CLAMP		8	4	4
3	LW-16266-10-13	CLAMP, 1/8 dia. for No. 10 screw		8	6	6
4	STD-860	SCREW, No. 10-32 x 5/8 long, fill. head.		8	8	6
5	STD-670	LOCKNUT, No. 10-32		8	8	6
6	LW-12798-4S334	HOSE ASSY., 1/4 hose, straight Fuel injector to Fuel manifold		1	1	
7	AN837-4	ELBOW, 1/4 flared tube		1	1	
8	AN924-4	NUT, 1/4 tube		1	1	
9	LW-12798-4S111	HOSE ASSY., 1/4 hose, straight Fuel injector to Fuel manifold		1	1	
	LW-12798-4S340	HOSE ASSY., 1/4 hose, straight				1
10	LW-12877-6S161	HOSE ASSY., 3/8 hose, 90° elbow Fuel pump to Fuel manifold		1	1	
11	72377 *	ELBOW, 3/8 flared tube, adj. Fuel pump outlet		1	1	
	LW-25-0.50	BOLT, 1/4 -20 X 1/2-Long Hex				1
	STD-160	WASHER, 1/4- Lock Int. Teeth				1

*Requires P/N MS29512-06 O-ring.

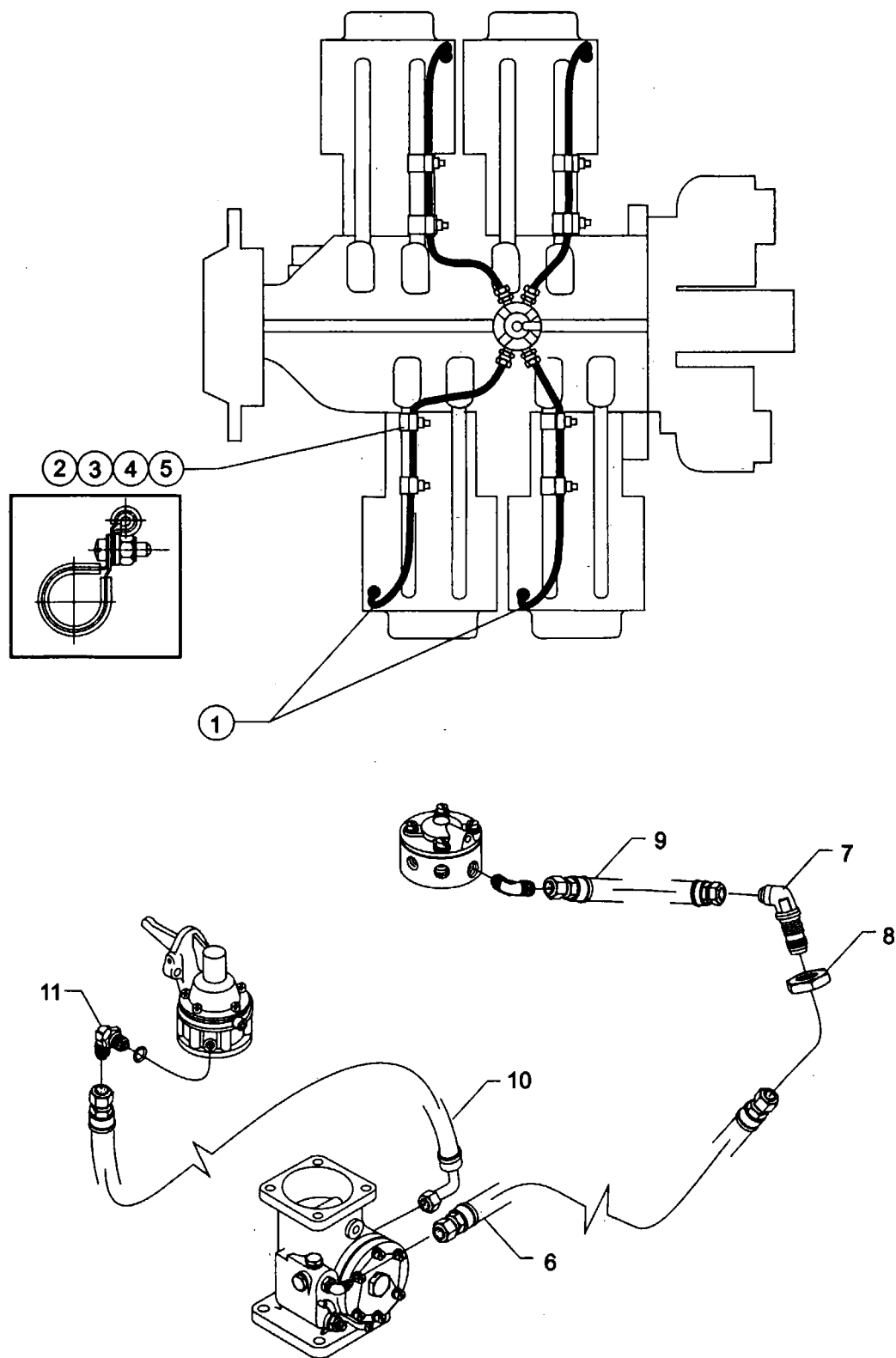


Figure 30 Fuel Lines and Attaching Parts

SERVICE KIT SECTION SEAL AND GASKET SET

Part No.	Part Name	Qty
75439-1	KIT - SEAL AND GASKET SET	1
AN901-8A	GASKET, Metal tube connect seal	1
LW-10332	LOCKPLATE, Crankshaft gear	1
LW-12272	LOCKPLATE, Shroud tube	4
LW-12681	GASKET, Magneto	2
LW-12795	GASKET, Oil filter adapter	1
LW-13353	GASKET, Oil sump	1
LW-13792	SEAL, Crankshaft oil	1
LW-14260	SEAL, Tachometer drive	1
LW-14995	SPRING, Shroud tube	4
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-18661	SEAL, Shroud tube	8
LW-19296	GASKET, Exhaust flange	4
STD-475	WASHER, 5/16 lock, internal teeth	4
STD-213	SEAL, Oil	1
06A19956	SEAL, Oil	1
06E19769-0.63	GASKET	2
06E19769-1.00	GASKET	1
06E19769-1.25	GASKET	1
1691-C	GASKET, Fuel pump	1
60096	GASKET, Fuel pump	1
61173	GASKET, Oil pressure housing	1
61183	GASKET, Accessory adapter	1
62224	GASKET, Magneto adapter	3
66224	GASKET, Carburetor	2
68315	GASKET, Accessory drive	1
69164	GASKET, Fuel pump adapter	1
69345	SPACER	4
69551	GASKET, Accessory drive	1
70310	SEAL, Shroud tube	8
70455	GASKET	1
71481	RING, Oil seal	4
71973	GASKET	4
72053	GASKET, Governor	2
72059	GASKET, Oil level gage	1
72075	SEAL, Oil	6
72078	LOCKPLATE	2
72091	RING, Oil seal	2
72220	GASKET, Oil level gage	1
72312	RING, Oil seal	1
72829	LOCKPLATE	1
73189	GASKET	1
73383	LOCKPLATE	2
73817	LOCKPLATE	2
73818	GASKET, Accessory housing	1
74065	RING, Oil level gage seal	1
74068	RING, Oil level gage plug	1
75906	GASKET, Rocker box cover	4

LYCOMING AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION SEAL AND GASKET SET (Continued)

Part No.	Part Name	Qty.
75439-1	KIT – SEAL AND GASKET SET (Continued)	1
76510	GASKET, Oil cooler bypass	1
76940	SEAL, Crankshaft oil	1
77154	GASKET, Carburetor	1
77611	GASKET, Exhaust flange	1
8313	GASKET, Vacuum pump	1
77569	RING, Seal, intake pipe	4
MS29512-04	“O” RING, 11/32 ID x 1/16 section	1

SERVICE KIT SECTION CYLINDER, PISTON & RING ASSY. KIT

Part No.	Part Name	Qty.
05K21104	KIT – CYLINDER, PISTON AND RING ASSY.	1
LW-12427	CYLINDER ASSEMBLY	1
LW-19001	VALVE, Exhaust	1
73938	VALVE, Intake	1
LW-11800	SPRING, Valve, outer	2
LW-11795	SPRING, Valve, inner	2
LW-10077	SEAT, Valve spring, upper intake	1
LW-16475	SEAT, Valve spring, upper exhaust	1
65441	SEAT, Valve spring, lower intake	1
LW-13323	SEAT, Valve spring, lower exhaust	1
60009	KEY, Valve, intake	2
17C21191	KEY, Valve, exhaust	2
17C19386	CAP, Valve stem, exhaust	1
75089	PISTON	1
74241	RING, Piston, compression	2
14H21950	RING, Piston, oil regulating	1
LW-14078	PIN, Piston	1
60828	PLUG, Piston pin	2
71481	RING, Oil seal	1
LW-18661	SEAL, Shroud tube	2
70310	SEAL, Shroud tube	2
75906	GASKET, Rocker box cover	1
72198	PLUG, Piston pin	2
77611	GASKET, Exhaust	1
71973	GASKET, Intake	1
LW-12272	LOCKPLATE, Shroud tube	1



AEIO-360-B1B, -B1F AND -B1H PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

SERVICE KIT SECTION ... CRANKCASE ASSY. AND THRU

Part No.	Part Name	Qty.
11B20061-1SL-S	CRANKCASE ASSY. AND THRU STUD KIT	1
11B20061-1SL	CRANKCASE ASSEMBLY	1
STD-1339	PLUG, 1/16-27 NPT	4
STD-2090	NUT, 1/2-20 plain	2
1102	PLUG, 1/8 pipe	6
74887	SPACER	2
76220	THRU STUD	4

NUMERICAL INDEX

PART NO.	PART NAME	PAGE NO.	PART NO.	PART NAME	PAGE NO.
AN6-14	Bolt	5-4	LW-12098-0-210	Tube Assy.	6-9
AN6-16	Bolt	5-4	LW-12186	Nut	3-1
AN6-34A	Bolt	1-9	LW-12272	Lockplate	3-9
AN791-2	Elbow	6-5	LW-12427	Cylinder Assy.	3-3
AN791-2	Elbow	6-7	LW-12681	Gasket	4-1
AN816-10D	Nipple	2-11	LW-12681	Gasket	4-3
AN837-4	Elbow	6-11	LW-12706	Adapter	4-3
AN901-8A	Gasket	2-9	LW-12706	Adapter	4-3
AN924-4	Nut	6-11	LW-12795	Gasket	2-9
AN960-616L	Washer	1-9	LW-12798-4S111	Hose Assy.	6-1
AS5163D08	Elbow	2-9	LW-12798-4S204	Hose Assy.	6-9
LW-M-2375	Spark Plug Plate	4-5	LW-12798-4S334	Hose Assy.	6-1
LW-M-2403	Harness Assy., Slick	4-5	LW-12877-6S161	Hose Assy.	6-9
LW-M-2404	Harness Assy., Slick4	4-5	LW-12877-6S161	Hose Assy.	6-1
LW-25-0.50	Bolt	6-5	LW-12892	Thrust Button	3-5
LW-25-0.50	Bolt	6-7	LW-13215	Oil Filter	2-9
LW-25-0.94	Bolt	2-3	LW-13323	Seat	3-9
LW-25-0.94	Bolt	6-1	LW-13353	Gasket	6-1
LW-25-1.00	Bolt	2-9	LW-13389	Baffle Assy.	3-7
LW-25-1.13	Bolt	1-9	LW-13751	Fitting	6-1
LW-25-1.13	Bolt	2-3	LW-13752	Plug	6-1
LW-25-1.13	Bolt	6-1	LW-13753	Fitting	6-1
LW-25-1.25	Bolt	4-5	LW-13754	Fitting	6-1
LW-25-1.25	Bolt	6-3	LW-13755	Breather Tee	6-1
LW-25-1.44	Bolt	2-3	LW-13790	Shaft	3-5
LW-25-1.50	Bolt	1-9	LW-13792	Crankshaft Seal	1-3
LW-25-1.75	Bolt	1-9	LW-13793	Stud	1-1
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