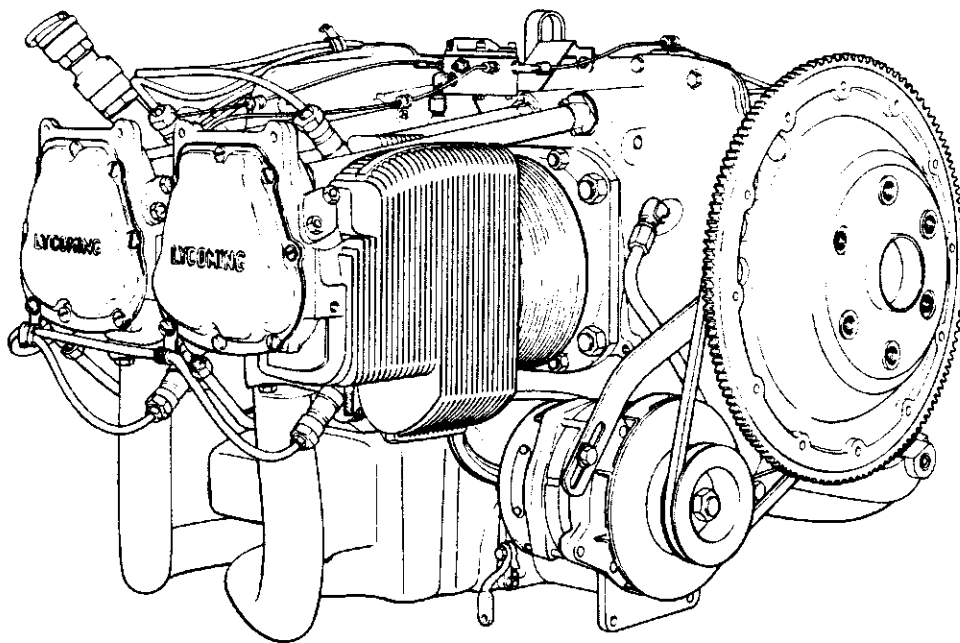


# TEXTRON Lycoming AIRCRAFT ENGINES

**IO, AIO-360-A, -B Series  
Wide Cylinder Flange Models**

## PARTS CATALOG

**PC-406-1**



2566-A

**APRIL, 1991**

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**TEXTRON Lycoming**

Williamsport Plant  
Textron Lycoming/Subsidiary of Textron Inc.

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## INTRODUCTION

This illustrated parts catalog contains a complete parts listing for the Textron Lycoming IO-360-A, -B and AIO-360-A, -B Series wide cylinder flange model aircraft engines.

Major assembly and sub-assembly parts of the engines 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 Textron 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 this 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 manufacturers' product, by name, trademark, part number or other description is solely for the purposes of identification and does not indicate or infer that Textron Lycoming accepts responsibility for quality control and/or airworthiness of parts which do not pass through the Textron 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 Textron 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.

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**Oversize and Undersize Parts Listing**

PART NO.	DESCRIPTION	OVERSIZE										UNDERSIZE		
		P02 .002	P05 .005	P75 .0075	P10 .010	P125 .0125	P15 .015	P20 .020	P30 .030	P40 .040	P50 .050	M03 .003	M06 .006	M10 .010
61681	GUIDE	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1256 FOR APPLICATION.												
66145	DOWEL				X			X						
66610	BUSHING		X		X									
66670	BUSHING		X		X									
66713	GUIDE	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1256 FOR APPLICATION.												
66796	INSERT				X									
69260	INSERT				X									
69796	DOWEL		X											
72057	SEAT		X		X			X	X					
72058	SEAT				X			X	X					
72060	BUSHING		X		X		X	X						
72061	BUSHING		X		X		X	X						
72062	BUSHING		X		X		X	X						
72074	BUSHING		X		X			X						
72897	GUIDE	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1256 FOR APPLICATION.												
73810	BUSHING	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1142 FOR APPLICATION.												
74230	GUIDE	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1256 FOR APPLICATION.												
74248	BUSHING		X		X		X							
74249	BUSHING		X		X		X							
74309	BEARING				X							X*	X*	X
75838	GUIDE	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1256 FOR APPLICATION.												
LW-10647	DOWEL		X		X									
LW-11021	BEARING						X					X●	X●	X●
LW-11997	SEAL	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1324 FOR APPLICATION.												
LW-12688	SEAT				X			X	X					
LW-13212	BEARING				X							X*	X*	X*
LW-13521	BEARING				X							X*	X*	X*
LW-13522	BEARING											X	X	X
LW-13792	SEAL	SEE LATEST EDITION OF SERVICE INSTRUCTION NO. 1324 FOR APPLICATION.												
LW-13884	BEARING						X					X	X	X●
LW-16711	BEARING											X	X	X
STD-1065	DOWEL	X	X		X		X							
STD-2078	DOWEL	X	X		X		X							
16T19468	SEAT				X			X	X					

Studs available in P03, P07 and P12.

\* Also available in P10 oversize.

● Also available in P15 oversize.

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-13884 in .003 undersize, order part number LW-13884-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.

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**CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP**  
**CRANKCASE ASSEMBLY**

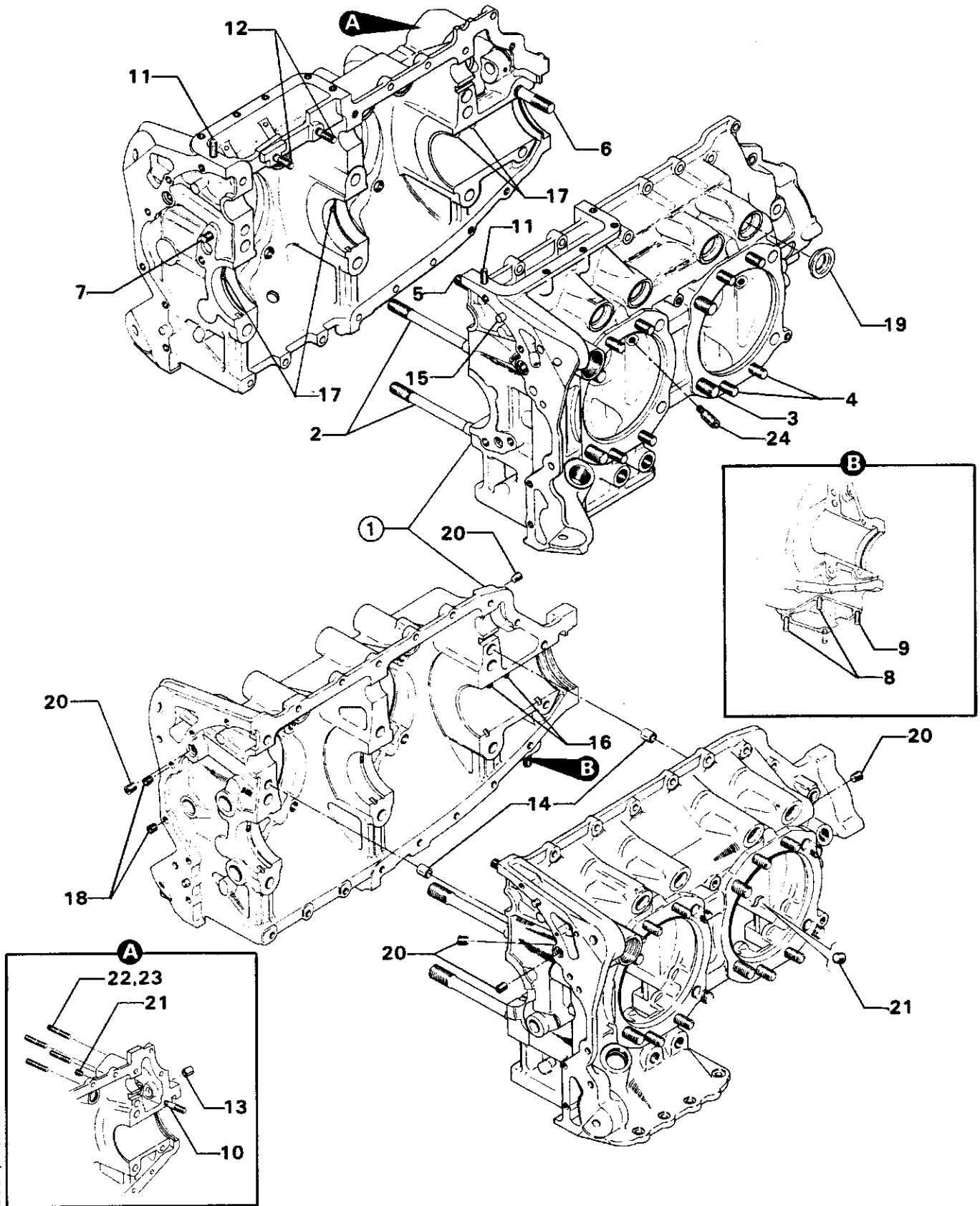
FIG. REF. 1	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360												AIO-360							
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	11B20051-1DL	CRANKCASE ASSEMBLY (see Note)					1																
	11B20051-1SH	CRANKCASE ASSEMBLY (see Note)																		1			
	11B20051-1SL	CRANKCASE ASSEMBLY (see Note)		1	1	1		1	1		1	1		1	1	1	1	1					
	LW-13814	CRANKCASE ASSEMBLY (see Note)																			1	1	1
	LW-18399-1	CRANKCASE ASSEMBLY (see Note)							1														
2	75154	STUD, 1/2-13 x 10-1/32 long	2																				
3	50-15	STUD, 1/2-20 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	38-22	STUD, 3/8-16 x 2-3/4 long																			1	1	1
7	LW-13793	STUD, 5/16-18 x 15/16 long, drilled		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
8	31C-12	STUD, 5/16-18 x 1-1/2 long	2																				
9	31C-13	STUD, 5/16-18 x 1-5/8 long	1																				
10	38-22	STUD, 3/8-16 x 2-3/4 long							1														
11	25C-10	STUD, 1/4-20 x 1-1/4 long																			2	2	2
12	25CD-14	STUD, 1/4-20 x 1-3/4 long, drilled																			2	2	2
13	72158	BUSHING, Gov. drive idler shaft							1												1	1	1
14	STD-557	DOWEL, 1/2 dia. x 19/32 long, hollow	2																				
15	STD-514	DOWEL, 5/16 dia. x 1/2 long	2																				
16	69796	DOWEL, Crankshaft bearing	2																				
17	LW-10647	DOWEL, Crankshaft bearing																			4	4	4
18	STD-1623	INSERT, 1/4-20 Helicoil x 3/8 long	2																				
19	65007 *	RETAINER, Shroud tube seal							8												8	8	8
20	1102	PLUG, 1/8-27 NPT, Allen		6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6
21	STD-1339	PLUG, 1/16-27 NPT, Allen							1				4	4	4	4	4	4	4	4	1	1	1
22	31C-16 **	STUD, 5/16-18 x 2.00 long							4												4	4	4
23	31C-14 *	STUD, 5/16-18 x 1-3/4 long																					4
24	73772	NOZZLE ASSY., Piston cooling		4	4	4	4	4	4	4	4	4	4								4	4	4

- \* Early crankcases used item no. 19, P/N 65007 retainer, installed in shroud tube bosses. Later crankcases are machined as a product improvement to accept shroud tubes without retainers. This part is a service item only.
- \*\* Woodward governor.
- \* "AN" governor.

**NOTE**

This part is not available as a service item. Refer to Section 7, Service Kits, Page 7-6 for applicable Crankcase Assy. and Thru Stud Kit part number.

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2684, 2949

Figure 1. CRANKCASE ASSEMBLY

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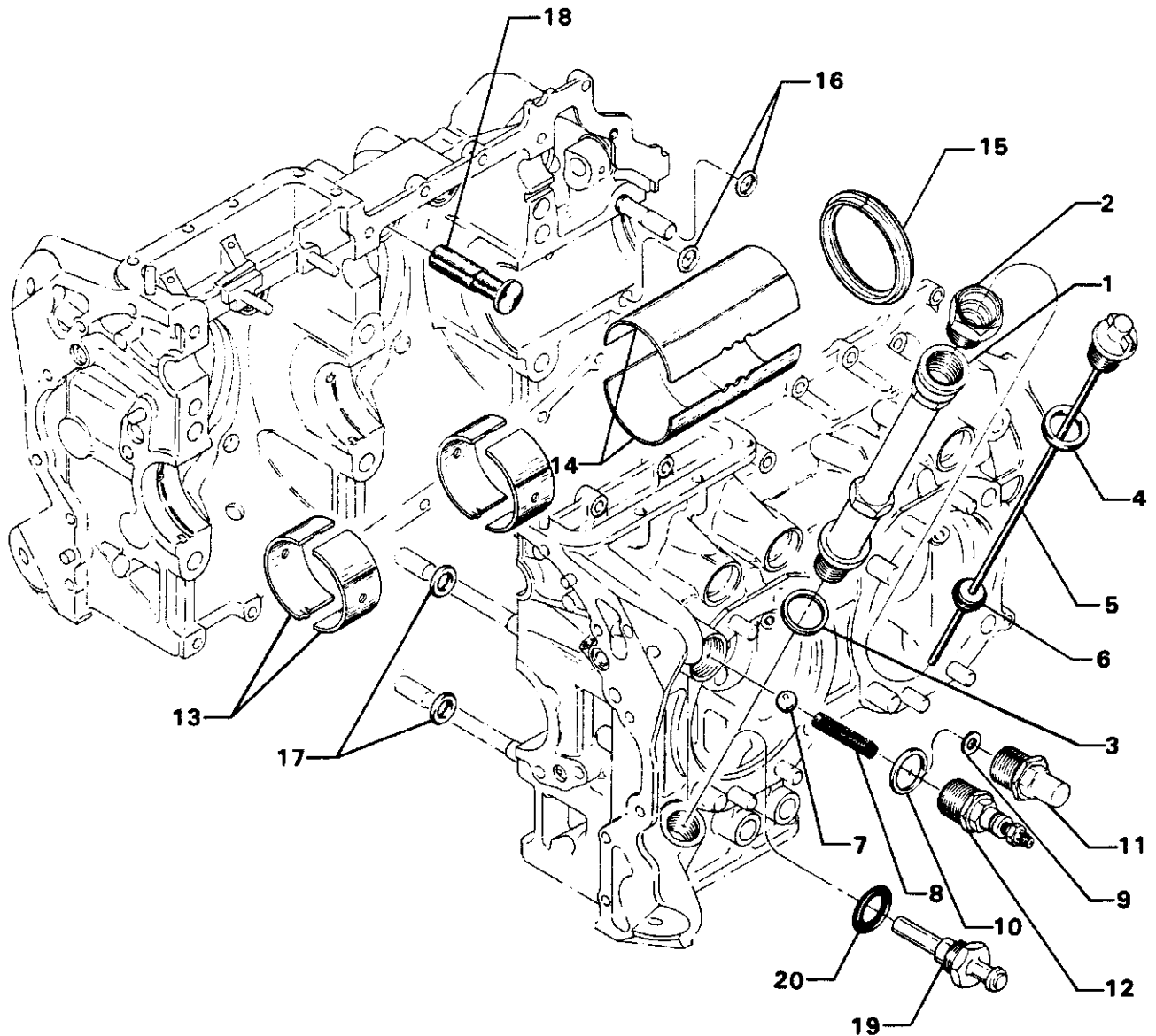
### CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

#### OIL LEVEL GAGES AND CRANKCASE RELATED PARTS

FIG. REF. 2	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360												AIO-360							
				A1 A	A1 B	A1 B6	A1 B6 D	A1 C	A1 D	A1 D6	A2 A	A2 B	A3 B6 D	B1 B	B1 D	B1 E	B1 F	B2 F	B2 F6	B4 A	A1 A	A1 B	B1 B
1	75735	TUBE, Oil level gage, short													1								
	75767	TUBE, Oil level gage, intermediate		1	1	1		1	1	1		1			1								
	75736	TUBE, Oil gage, long		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	LW-12789	TUBE ASSY., Oil level gage, 12-13/16 long				1		1															
	78626	TUBE ASSY., Oil level gage, 15-1/8 lg.				1																	
2	77962	ADAPTER, Oil level gage								1													
3	72059	GASKET, Oil level gage		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	74068	RING, Oil level gage seal		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	74065	RING, Oil level gage seal		1	1	1		1	1	1	1			1									
	72312	RING, Oil seal, 1.00 I.D. x 1/8 section				1		1	1														
5	LW-14759 *	GAGE ASSY., Oil level													1								
	LW-14780 **	GAGE ASSY., Oil level													1		1						
	LW-14758 *	GAGE ASSY., Oil level													1	1	1	1	1	1	1	1	
	LW-14760 *	GAGE ASSY., Oil level		1	1	1	1	1	1	1	1	1											
	LW-14769 **	GAGE ASSY., Oil level, intermediate		1	1	1		1	1	1	1												
	LW-14725 ●	GAGE ASSY., Oil level								1													
	LW-14733 †	GAGE ASSY., Oil level				1		1															
	LW-14763 ■	GAGE ASSY., Oil level				1																	
6	74524	RING, Oil level gage bushing				1		1															
7	1028-B	BALL, 11/16 diameter	1																				
8	61084▶	SPRING, Oil pressure relief valve	1																				
	LW-11713▶	SPRING, Oil pressure relief valve	1																				
	68668▶	SPRING, Oil pressure relief valve	1																				
	77467▶	SPRING, Oil pressure relief valve	1																				
	LW-18085▶	SPRING, Oil pressure relief valve	1																				
9	STD-425	WASHER, No. 10 plain (max. 9)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		AR	
10	06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1																				
11	76529	CAP, Oil relief valve, non-adjustable		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12	77808	VALVE ASSY., Oil pressure relief, adj.		1		1		1	1	1									1	1	1	1	
13	LW-11021	BEARING, Crankshaft	4																				
	LW-16047	BEARING, Crankshaft (alternate)	4																				
	18D19394	BEARING, Crankshaft (alternate)	4																				
	LW-16711	BEARING, Crankshaft (thin wall, high crush)		4	4	4	4		4			4	4	4	4	4							
14	LW-13884	BEARING, Crankshaft, front	2																				
	18A19441	BEARING, Crankshaft, front (alternate)	2																				
15	LW-13792◀	SEAL, Crankshaft oil, solid	1																				
	LW-11997◀	SEAL, Crankshaft oil, split	1																				
16	72075	SEAL, Oil, 3/32 section x 15/32 I.D.	2																				
17	72091	RING, Oil seal, 23/64 I.D. x 7/64 dia. section	2																				
18	72877	BODY, Hydraulic tappet	8																				
19	77120	FITTING ASSY., Crankcase breather																			1	1	1
20	MS29512-12	SEAL, Oil, 7/64 dia. section x 59/64 I.D.																			1	1	1

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- \* Used with P/N 75735 oil level gage tube and P/N 74068 oil level gage seal ring.
- \*\* Used with P/N 75767 oil level gage tube and P/N 74065 oil level gage seal ring.
- ★ Used with P/N 75736 oil level gage tube and P/N 74068 oil level gage seal ring.
- Used with P/N 77962 oil level gage adapter and P/N 72312 oil seal ring.
- ‡ Used with P/N LW-12789 oil level gage tube assy. and P/N 72312 oil seal ring.
- Used with P/N 78626 oil level gage tube assy. and P/N 74065 oil level gage seal ring.
- ▶ Select spring to give a minimum of three threads exposed on adjusting screw to allow field adjustment. Reference latest revision of SSP-1776, Part 1 for spring identification.
- ▲ See latest edition of Textron Lycoming Service Instruction No. 1324.

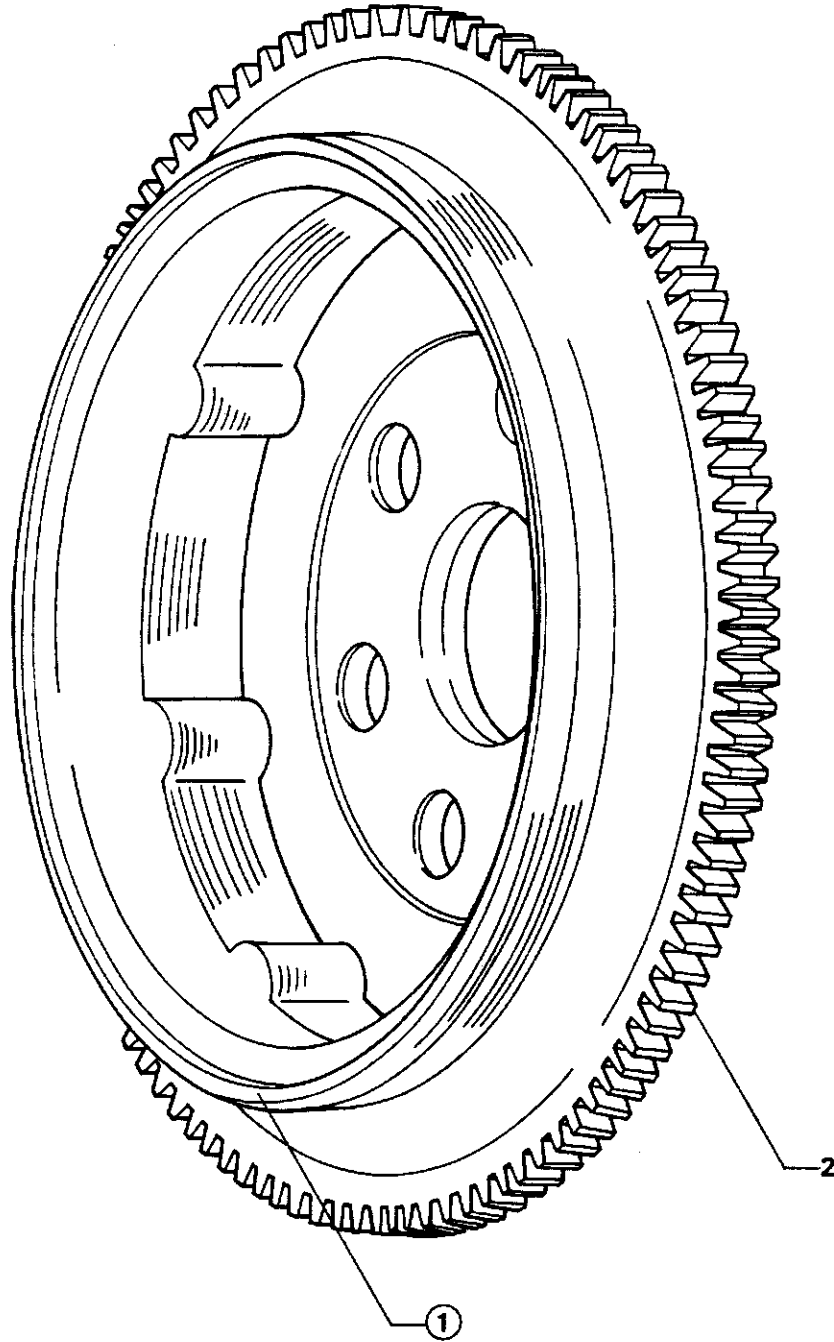
**Figure 2. OIL LEVEL GAGES AND CRANKCASE RELATED PARTS**











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**Figure 4. STARTER RING GEAR SUPPORT ASSEMBLY**



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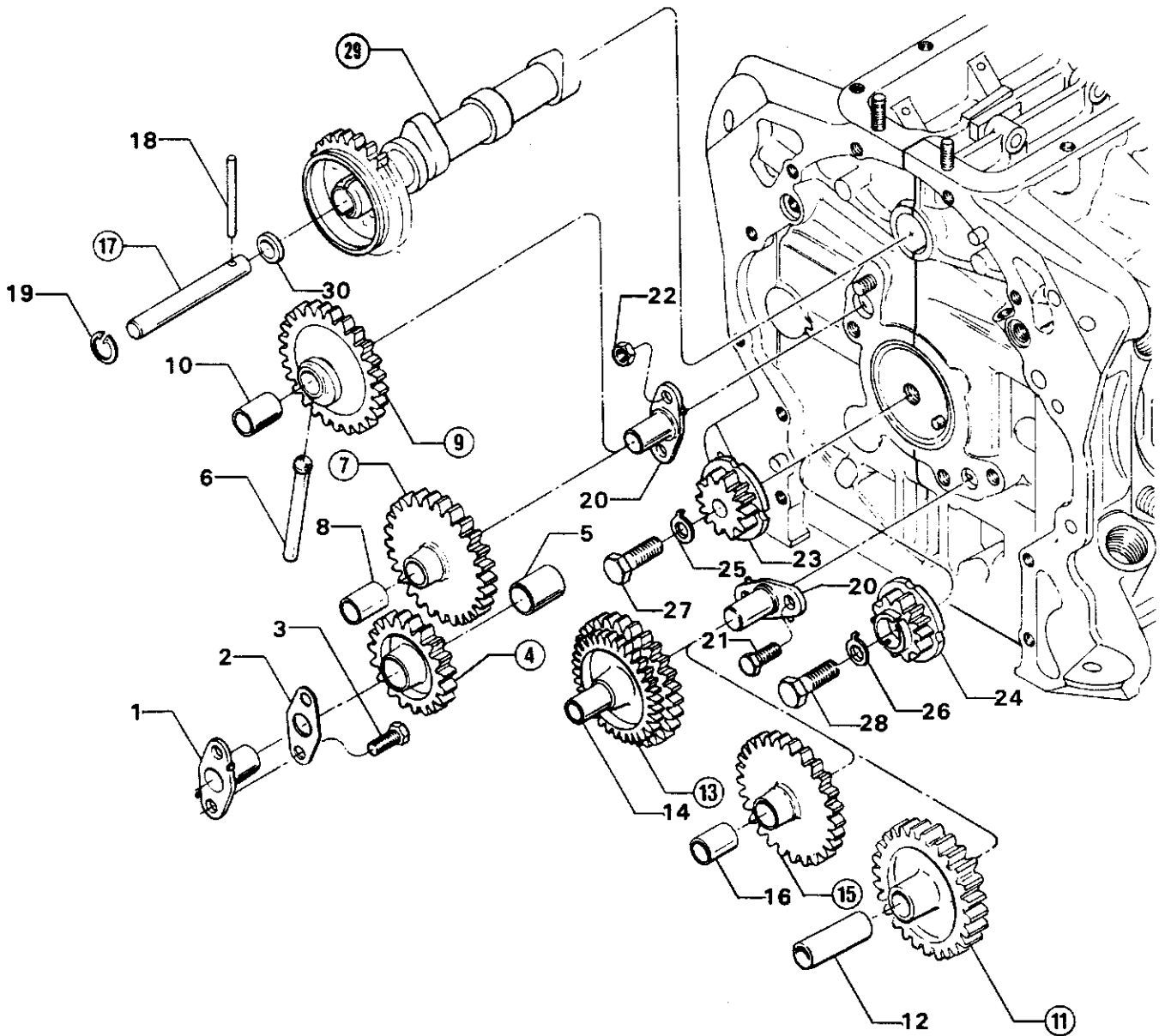


Figure 5. CRANKSHAFT IDLER GEARS, TACHOMETER DRIVE AND CAMSHAFT

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**CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP**  
**CRANKCASE ATTACHING PARTS**

FIG. REF. 6	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360											AIO-360								
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd.		8	8	8	8	8	8		8	8	8		8								
	LW-25-1.50*	BOLT, 1/4-20 x 1-1/2 long, hex. hd.									5												
	LW-25-1.50**	BOLT, 1/4-20 x 1-1/2 long, hex. hd.												5	5	5	5	5	5				
	LW-25-1.50*	BOLT, 1/4-20 x 1-1/2 long, hex. hd.													6								
2	LW-25-2.00**	BOLT, 1/4-20 x 2.00 long, hex. hd.												2	2	2	2	2	2				
	LW-25-2.00*	BOLT, 1/4-20 x 2.00 long, hex. hd.													2								
3	LW-25-1.75*	BOLT, 1/4-20 x 1-3/4 long, hex. hd.									2												
4	LW-10572*	BOLT, 1/4-20, Crankcase attaching									1												
5	STD-8	WASHER, 1/4 plain		19	19	19	19	19	19		19	19	19		19								
	STD-8	WASHER, 1/4 plain												13	13	13	13	13	13				
6	60803	STRAP, Lifting		1	1	1	1	1	1		1	1	1		1	1		1					
	60803**	STRAP, Lifting												2	2	2	2	2	2				
7	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.		1	1	1	1	1	1		1	1	1		1	1		1					
	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.												2	2	2	2	2	2				
8	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.		3	3	3	3	3	3		3	3	3	3	3	3	3	3	3				
9	STD-160	WASHER, 1/4 lock, internal teeth		12	12	12	12	12	12		12	12	12	12	12	12	12	12	12				
10	STD-1411	NUT, 1/4-20 plain		9	9	9	9	9	9		9	9	9	9	9	9	9	9	9				
11	LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd., dr. end		3	3	3	3	3	3		3	3	3	3	3	3	3	3	3				
12	STD-8	WASHER, 1/4 plain		9	9	9	9	9	9		9	9	9	9	9	9	9	9	9				
13	STD-1409	NUT, 1/4-20 slotted shear		3	3	3	3	3	3		3	3	3	3	3	3	3	3	3				
14	STD-33	WASHER, 3/8 plain		3	3	3	3	3	3		3	3	3	3	3	3	3	3	3				
15	AN960-616L	WASHER, 3/8 plain (thick) (max. 3)		AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR				
16	STD-872	NUT, 3/8-24 slotted		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1				
17	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				
	AN6-34A*	BOLT, 3/8-24 x 3-37/64 long, hex. hd.									1												
18	LW-10573*	BOLT, 3/8-24, Crankcase attaching									1												
19	LW-10574*	SPACER, Crankcase bolt									1												
20	LW-11866●	SPACER NUT, Compressor																					
21	STD-33	WASHER, 3/8 plain		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				
	STD-33●	WASHER, 3/8 plain																					
	STD-33*	WASHER, 3/8 plain									4												
22	STD-678	WASHER, 3/8 lock, internal teeth		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				
	STD-678●	WASHER, 3/8 lock, internal teeth																					
23	STD-596	NUT, 3/8-24 plain		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				
	STD-596●	NUT, 3/8-24 plain																					
24	76220	STUD, 1/2-20 x 10-11/16 long		4	4	4	4	4	4		4	4	4	4	4	4	4	4	4				

- \* Special crankcase bolts for attaching rotor system (McCulloch installation).
- \*\* To attach fuel manifold brackets.
- ★ Fuel manifold mounted on top of the engine.
- Engines employing optional freon compressor (not sold by Textron Lycoming).

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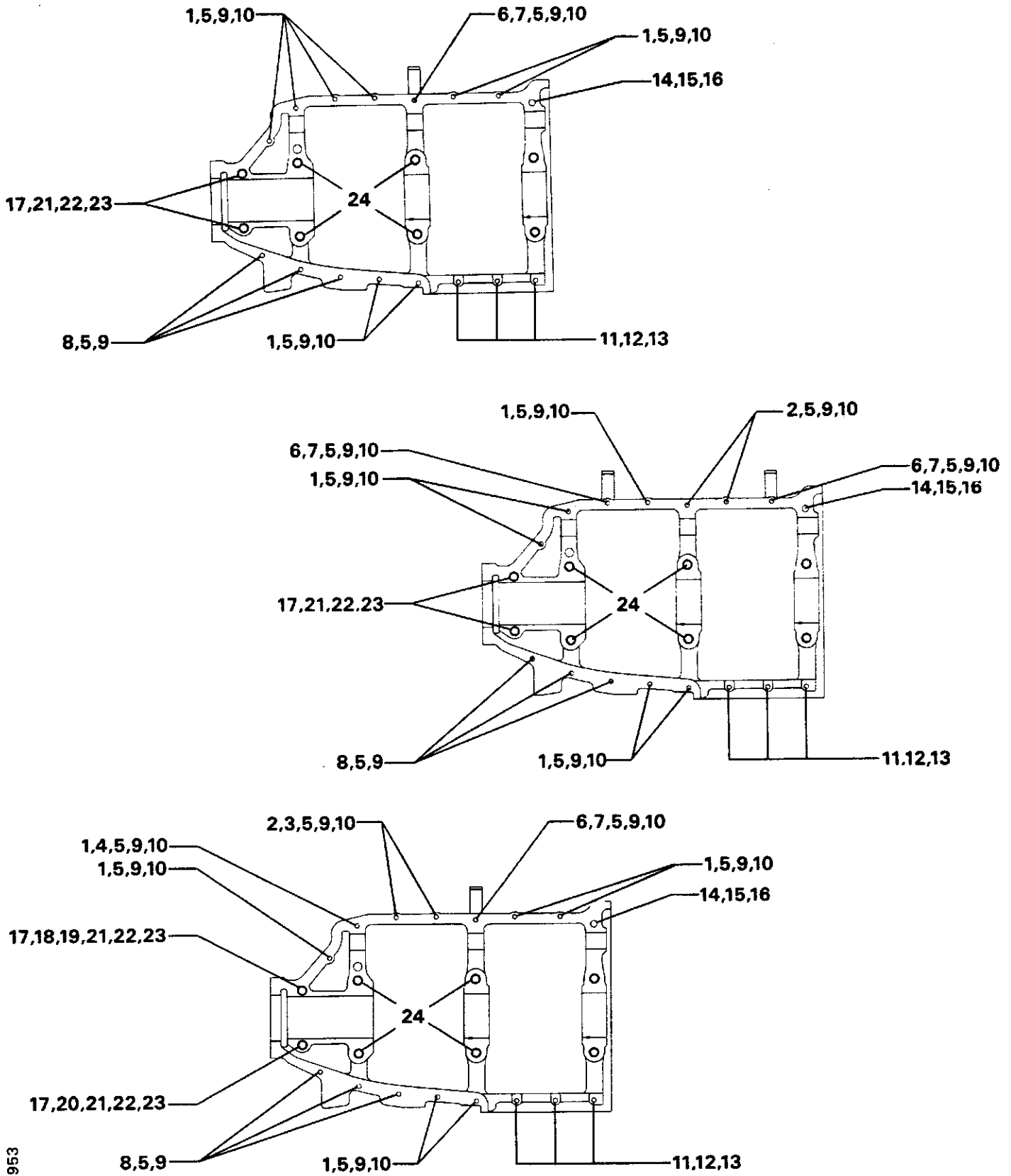


Figure 6. CRANKCASE ATTACHING PARTS

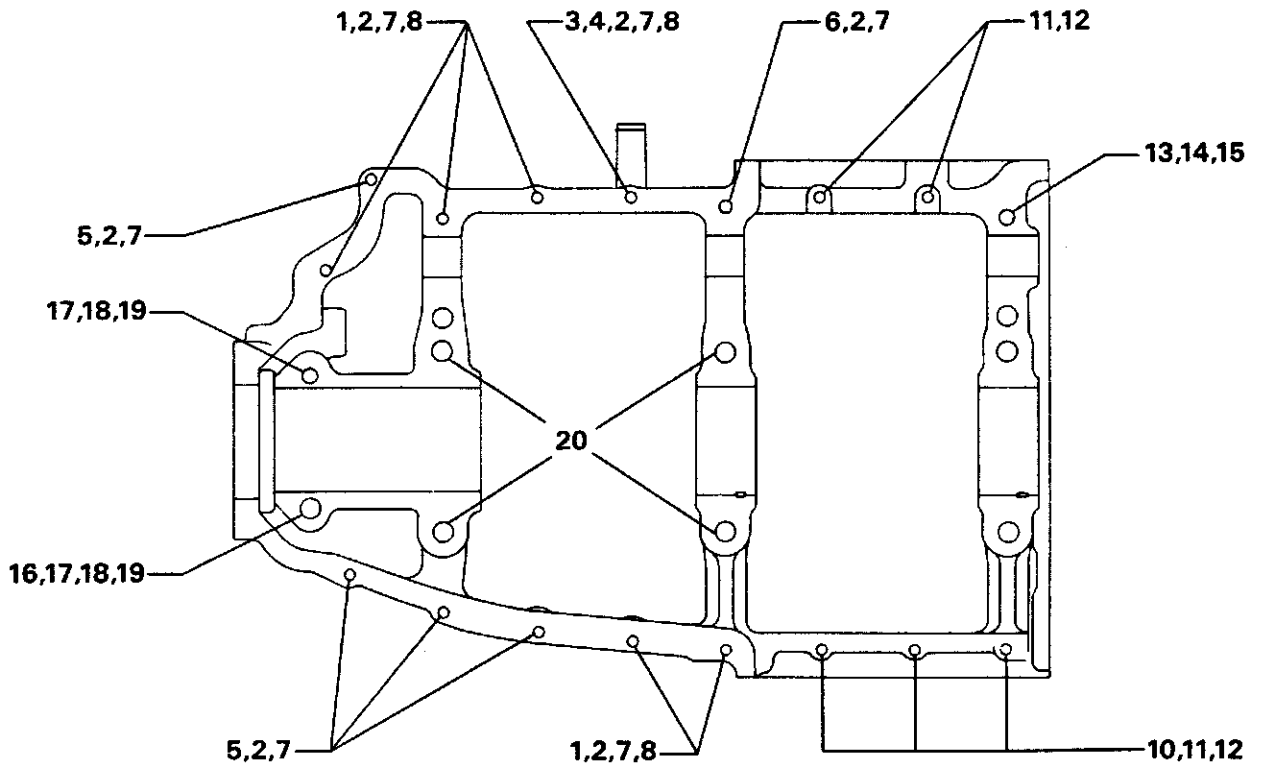
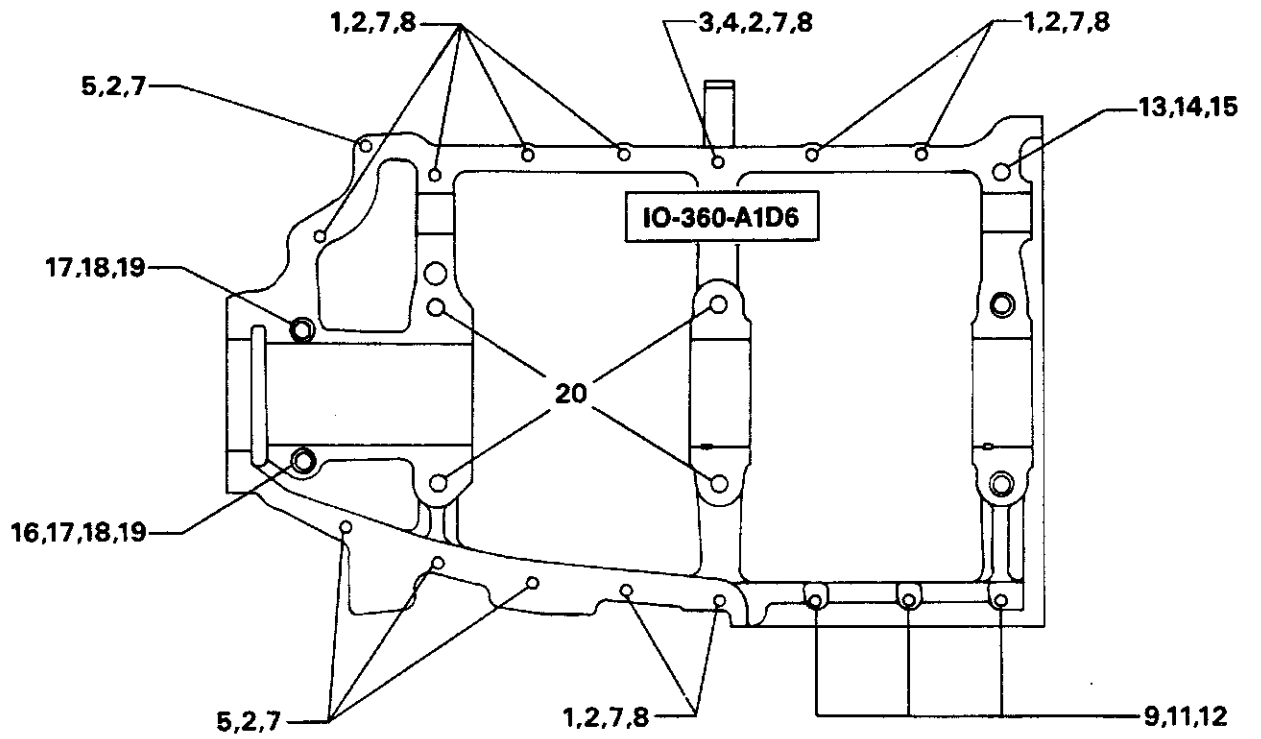


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**CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP**  
 CRANKCASE ATTACHING PARTS (AIO & FRONT MOUNTED PROP. GOVERNOR)

FIG. REF. 6A	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360														AIO-360					
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd.																			5	5	5
2	STD-8	WASHER, 1/4 plain																			15	15	15
3	60803	STRAP, Lifting																			1	1	1
4	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.																			1	1	1
5	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.																			4	4	4
6	LW-25S2.97	BOLT, 1/4-20 x 2-31/32 long, hex. hd.																			1	1	1
7	STD-160	WASHER, 1/4 lock, internal teeth																			11	11	11
8	STD-1411	NUT, 1/4-20 plain																			6	6	6
9	LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd., dr. end																					
10	LW-25S1.80	BOLT, 1/4-20 x 1-13/16 long, hex. hd., dr. end																					
11	STD-8	WASHER, 1/4 plain																			3	3	3
12	STD-1409	NUT, 1/4-20 slotted shear																			8	8	8
13	STD-33	WASHER, 3/8 plain																			5	5	5
14	AN960-616L	WASHER, 3/8 plain (thick) (max. 3)																			3	3	3
15	STD-872	NUT, 3/8-24 slotted																			AR	AR	AR
16	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.																			1	1	1
17	STD-33	WASHER, 3/8 plain																			3	3	3
18	STD-678	WASHER, 3/8 lock, internal teeth																			2	2	2
19	STD-596	NUT, 3/8-24 plain																			2	2	2
20	76220	STUD, 1/2-20 x 10-11/16 long																			4	4	4

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Figure 6A. CRANKCASE ATTACHING PARTS (AIO & FRONT MOUNTED PROP. GOVERNOR)

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### ACCESSORY HOUSING AND RELATED PARTS ACCESSORY HOUSING ASSEMBLY

FIG. REF. 7	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360												AIO-360						
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	73818	GASKET, Accessory housing	1																			
2	76110	HOUSING ASSY., Accessory			1	1			1	1		1						1		1	1	
	76111	HOUSING ASSY., Accessory		1				1		1									1			
	76141	HOUSING ASSY., Accessory										1										
	77412	HOUSING ASSY., Accessory											1									
	77620†	HOUSING ASSY., Accessory										1										
	77997◀	HOUSING ASSY., Accessory												1	1	1				1		
	LW-10649▶	HOUSING ASSY., Accessory													1							
	LW-10884 * *	HOUSING ASSY., Accessory					1															
	LW-10885 *	HOUSING ASSY., Accessory					1					1										
	LW-13238 *	HOUSING ASSY., Accessory				1																
	LW-14252■	HOUSING ASSY., Accessory												1								
	LW-15420‡‡	HOUSING ASSY., Accessory																1				
	LW-18347●	HOUSING ASSY., Accessory							1													
3	25C-10	STUD, 1/4-20 x 1-1/4 long							4													
4	25C-11	STUD, 1/4-20 x 1-3/8 long												1								
5	25C-12 * *	STUD, 1/4-20 x 1-1/2 long					4															
	25C-12 *	STUD, 1/4-20 x 1-1/2 long					4					4										
6	25C-20 *	STUD, 1/4-20 x 2-1/2 long					4															
7	25C-22	STUD, 1/4-20 x 2-3/4 long		4	4	4		4	4	4	4	4		4	4	4	4	4	4	4	4	4
8	31C-12▶	STUD, 5/16-18 x 1-1/2 long													4							
	31C-12◀	STUD, 5/16-18 x 1-1/2 long														4	4	4			4	
	31C-12‡‡	STUD, 5/16-18 x 1-1/2 long																	4			
9	31C-12	STUD, 5/16-18 x 1-1/2 long		6	6	6		6	6	6	6	6		6	6				6	6	6	6
10	31C-12	STUD, 5/16-18 x 1-1/2 long												8								
11	31C-13	STUD, 5/16-18 x 1-5/8 long		2				2	2			2	2							2		
12	31C-15 * *	STUD, 5/16-18 x 1-7/8 long					4															
13	31C-16‡‡	STUD, 5/16-18 x 2.00 long																		2		
14	31C-17 *	STUD, 5/16-18 x 2-1/8 long					4					4										
15	31C-19	STUD, 5/16-18 x 2-3/8 long			2	2			2	2		2							2		2	2
16	31C-19	STUD, 5/16-18 x 2-3/8 long												4								
	31C-19■	STUD, 5/16-18 x 2-3/8 long												4								
	31C-19▶	STUD, 5/16-18 x 2-3/8 long													4							
	31C-19◀	STUD, 5/16-18 x 2-3/8 long														4	4	4			4	
17	31CD-17	STUD, 5/16-18 x 2-1/8 long, drilled		3	3	3		3	3	3	3	3		3	3	3	3	3	3	3	3	3
18	LW-12589	INSERT, Helicoil, 5/8-18 x 3/8 long					1						1									
19	MS124703	INSERT, Helicoil, 3/4-16 x 1-1/8 long					1						1									
20	LW-10341	INSERT, Helicoil, 1.00-14 x 3/8 long					1						1									
21	75888	STUD, 1/4-20 x 1-1/4 long														6						
22	1102	PLUG, 1/8-27 NPT, Allen												2								
	1102	PLUG, 1/8-27 NPT, Allen		3	3	3		3	3	3	3	3		3				3	3	3	3	3
	1102	PLUG, 1/8-27 NPT, Allen													4							
23	STD-784	PLUG, 3/8 pipe, Allen		1	1	1		1	1	1	1	1		1	1	1			1	1	1	1
24	1102 ☆	PLUG, 1/8-27 NPT, Allen					1						1									

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- \* This accessory housing uses shorter studs (P/N 25C-20) at vacuum pump pad.
- \*\* "AC" governor.
- ★ Woodward governor.
- This accessory housing uses shorter studs (P/N 25C-10) at vacuum pump pad.
- ± This accessory housing uses one P/N 25C-11 stud at vacuum pump pad.
- Driven height of fuel pump studs is longer to accommodate a P/N LW-10799 insulating spacer between the fuel pump and housing.
- ▶ Longer studs (P/N 31C-19) used on magneto pad to accommodate two S4LN-1227 impulse magnetos.
- ▲ Longer studs (P/N 31C-19) used on magneto pad to accommodate two S4LN-21 impulse magnetos.
- ‡ Longer studs (P/N 31C-16) used on magneto pad to accommodate magneto absorption drive.
- ☆ Assemble in accessory housing on top of oil filter pad.

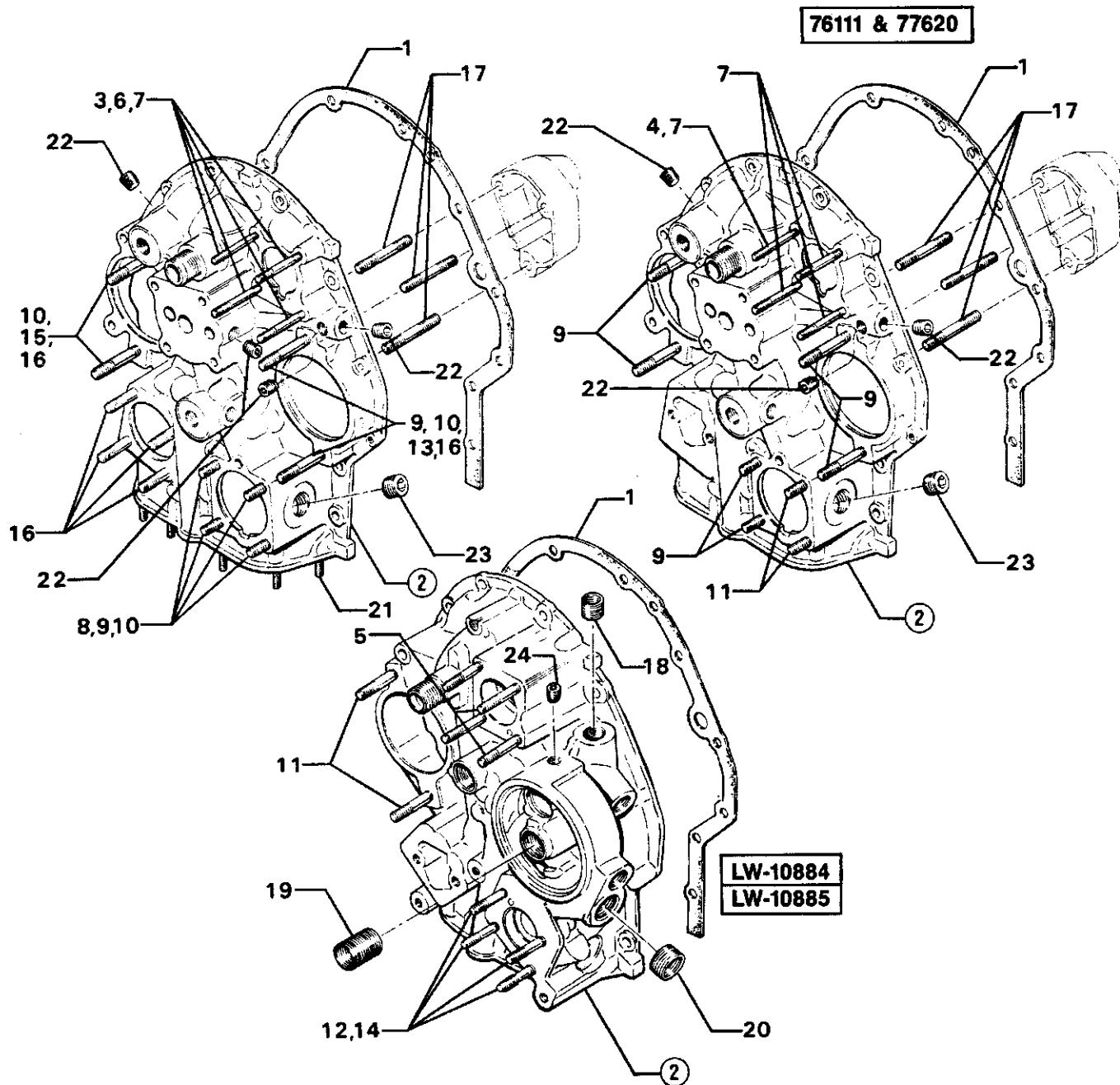


Figure 7. ACCESSORY HOUSING ASSEMBLY

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

FIG. REF. 8	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360												AIO-360							
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	68317	SHAFTGEAR, Propeller governor drive		1	1	1		1	1					1	1	1	1						
2	LW-12914●	GEAR ASSY., Accessory driven					1						1										
3	71596	WASHER, Accessory driven gear		1	1	1	1	1	1				1	1	1	1	1						
4	STD-1221	RING, 13/16 dia. x 1/32 thick		1	1	1		1	1					1	1	1	1						
5	77875	GEAR, Propeller governor driven							1												1	1	1
6	LW-14021	SHAFT, Propeller governor idler gear							1												1	1	1
7	77874	GEAR ASSY., Propeller governor idler							1												1	1	1
8	77872	BUSHING, Propeller gov. idler gear							2												2	2	2
9	STD-19	DOWEL, 3/32 dia. x 7/32 long							1												1	1	1
10	STD-798	DOWEL, 3/32 dia. x 9/32 long							1												1	1	1
11	73249	WASHER, Thrust							AR												AR	AR	AR
	73250	WASHER, Thrust							AR												AR	AR	AR
	73251	WASHER, Thrust							AR												AR	AR	AR
	73252	WASHER, Thrust							AR												AR	AR	AR
12	AN565B1032H5	SET SCREW, No. 10-32 x 5/16 long							1												1	1	1
13	70455	GASKET, 25/32 I.D. x 1-1/8 O.D. x 1/16 thick							1												1	1	1
14	LW-13896	PLUG, 3/4-16 hex. hd.							1												1	1	1
15	68315	GASKET, Accessory drive adapter		1	1	1		1	1					1	1	1	1						
16	75153*	ADAPTER ASSY., Propeller gov. drive		1	1	1		1	1					1	1	1	1						
	75545**	ADAPTER ASSY., Propeller gov. drive		1	1	1		1	1					1	1								
	78594*	ADAPTER ASSY., Propeller gov. drive		1	1	1																	
17	1102	PLUG, 1/8-27 NPT, Allen		1	1	1		1	1					1	1	1	1						
18	31C-16*	STUD, 5/16-18 x 2.00 long		4	4	4		4	4					4	4	4	4						
	31C-14**	STUD, 5/16-18 x 1-3/4 long		4	4	4		4	4					4	4								
19	STD-1164*	INSERT, 5/16-18 x 5/8 long, Helicoil		4	4	4																	
20	STD-1774	PIN, 1/8 dia. x 1/4 long		1	1	1		1	1					1	1	1	1						
21	STD-35	WASHER, 5/16 plain		4	4	4		4	4					4	4	4	4						
22	STD-475	WASHER, 5/16 lock, internal teeth		4	4	4		4	4					4	4	4	4						
23	STD-1410	NUT, 5/16 plain		4	4	4		4	4					4	4	4	4						
24	69551	GASKET, Accessory drive adapter							1	1	1						1	1	1				
25	69106	COVER, Governor drive adapter pad							1	1	1						1	1	1				
26	STD-35	WASHER, 5/16 plain							4	4	4						4	4	4				
27	STD-475	WASHER, 5/16 lock, internal teeth							4	4	4						4	4	4				
28	STD-1410	NUT, 5/16-18 plain							4	4	4						4	4	4				
29	72053	GASKET, Governor		1	1	1		1	1	1				1	1	1	1				1	1	1
	72053●	GASKET, Governor					2							2									
	72053‡	GASKET, Governor													2								
30	72378	COVER, Governor drive		1	1	1		1	1	1				1	1	1	1				1	1	1
	72378●	COVER, Governor drive					1							1									
	72378‡	COVER, Governor drive													2								
31	LW-12347●	PLATE, Propeller governor pad					1							1									
32	STD-35*	WASHER, 5/16 plain		32	32	32	32	32	32	32				32	32	32	32				32	32	32
	STD-35**	WASHER, 5/16 plain		4	4	4	4	4	4	4				4	4	4	4				4	4	4
	STD-35‡	WASHER, 5/16 plain													6								
33	STD-475	WASHER, 5/16 lock, internal teeth		4	4	4	4	4	4	4				4	4	4	4				4	4	4
	STD-475‡	WASHER, 5/16 lock, internal teeth													8								

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### ACCESSORY HOUSING AND RELATED PARTS PROPELLER GOVERNOR DRIVES, ADAPTER ASSEMBLY AND COVERS (Continued)

FIG. REF. 8	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360												AIO-360							
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
34	LW-31-1.69‡	BOLT, 5/16-18 x 1-11/16 long, hex. hd.													4								
35	STD-1410	NUT, 5/16-18 plain	4	4	4	4	4	4	4			4	4	4	4	4				4	4	4	
	STD-1410‡	NUT, 5/16-18 plain										4											
36	LW-31H1.22★	BOLT, 5/16-18 x 1-7/32 long	4	4	4																		

- \* Woodward governor.
- \*\* "AN" governor.
- ★ "AN" governor; cap screws instead of studs.
- Dual magneto.
- ‡ Propeller governor drive cover for dual drive pad.

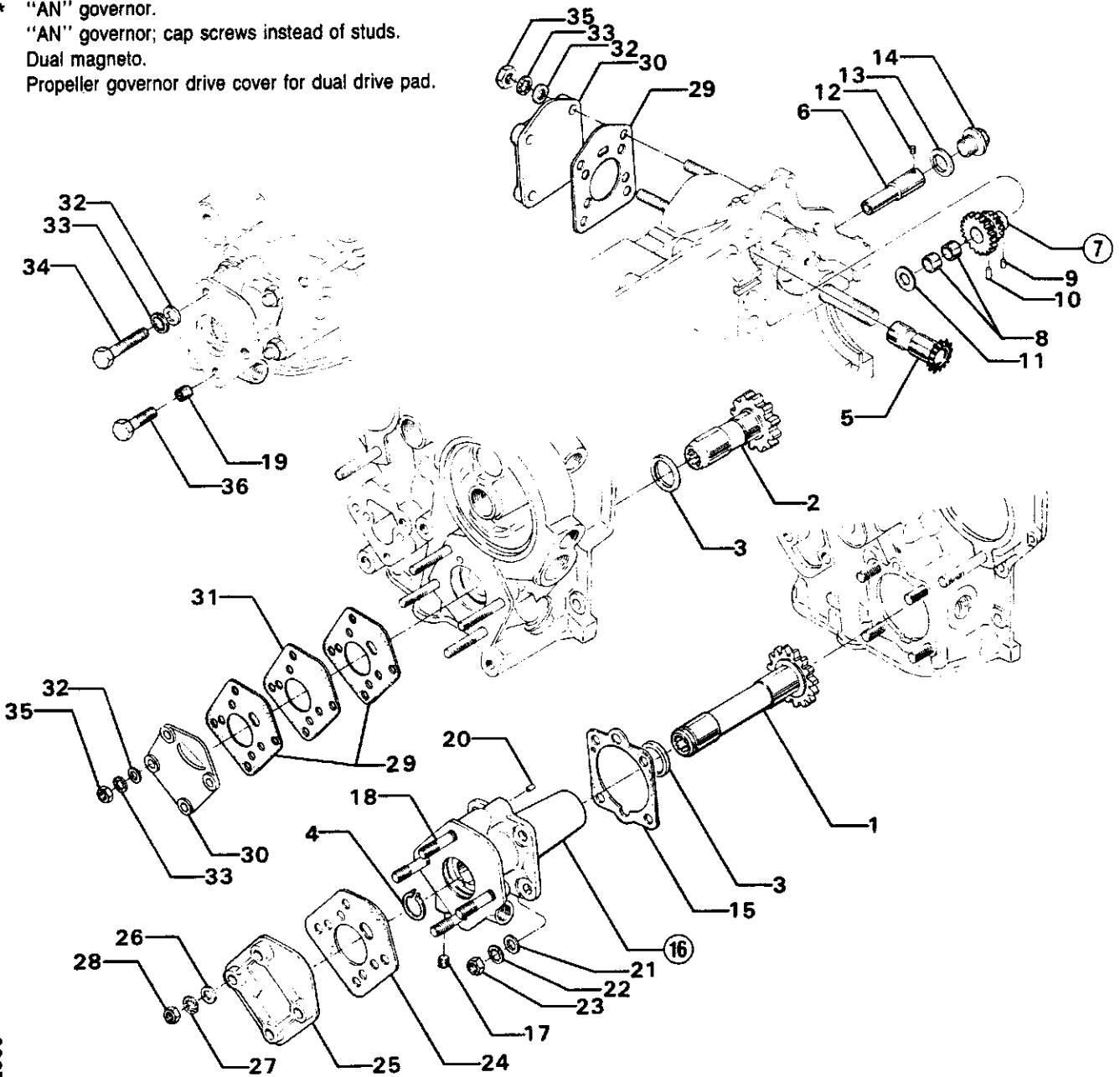
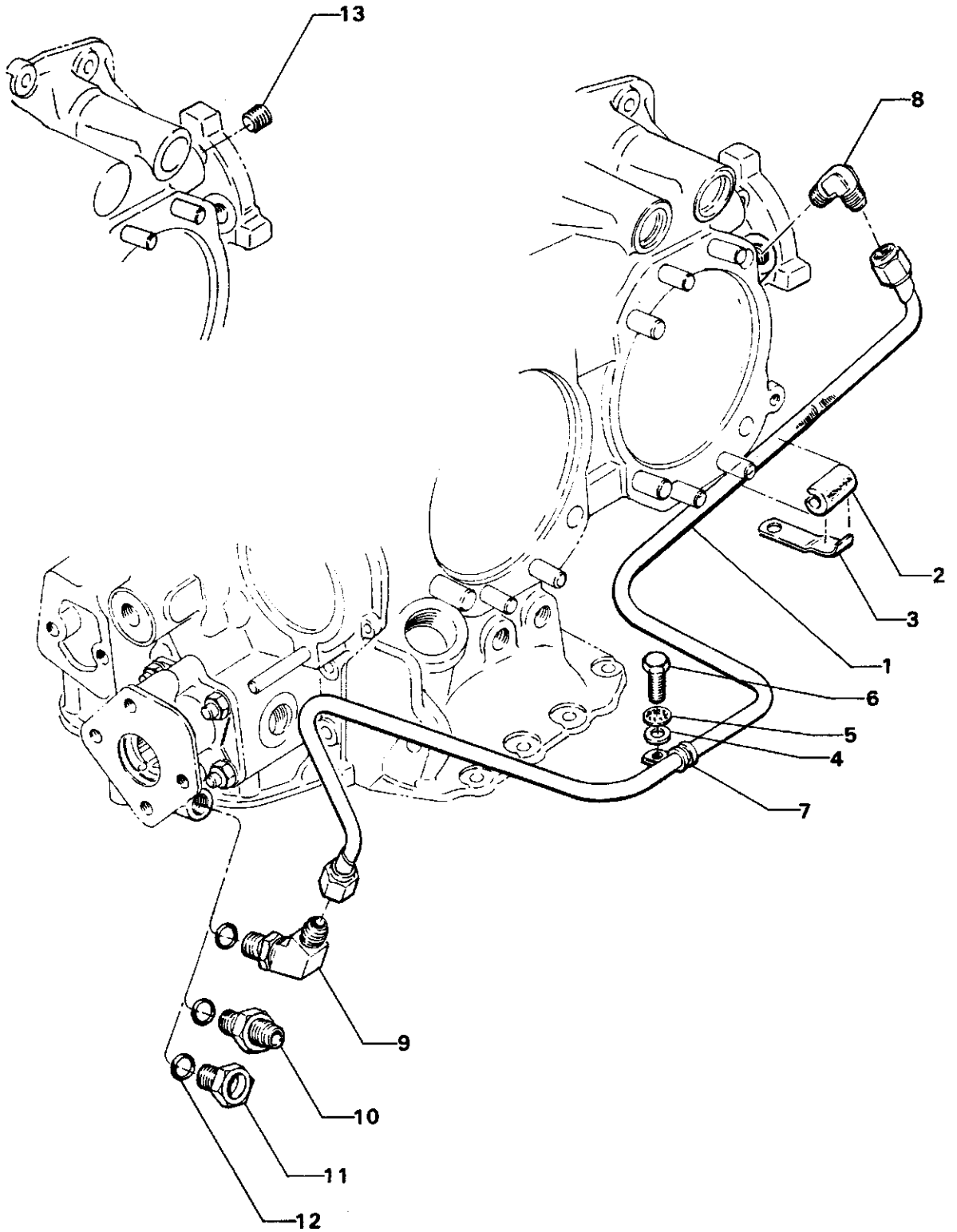


Figure 8. PROPELLER GOVERNOR DRIVES, ADAPTER ASSEMBLY AND COVERS



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**Figure 9. PROPELLER GOVERNOR OIL LINES**



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**ACCESSORY HOUSING AND RELATED PARTS**  
**OIL SCAVENGE PUMP AND OIL SUCTION TUBES (AIO-360)**

FIG. REF. 10	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																					
				IO-360												AIO-360									
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B		
1	68315	GASKET, Accessory drive adapter																				1	1	1	
2	77172	PUMP ASSY., Oil scavenge																					1	1	1
3	77125	ADAPTER ASSY., Oil scav. pump																					1	1	1
4	77118	SHAFT, Oil pump idler																					2	2	2
5	STD-2013	RING, Oil seal, 39/64 I.D. x 1/16 section																					2	2	2
6	AN381-4-22	PIN, Cotter, 1/8 dia. x 1-3/8 long																					2	2	2
7	STD-1173	INSERT, 1/4-20 Helicoil x 1/2 long																					2	2	2
8	66145	DOWEL, 1/4 dia. x 1/2 long																					2	2	2
9	77116	SHAFT ASSY., Scavenge pump drive																					1	1	1
10	66426	IMPELLER, Oil scav. pump, driving																					1	1	1
11	68403	IMPELLER, Oil scav. pump, driven																					2	2	2
12	77124	HOUSING ASSY., Oil scav. pump																					1	1	1
13	STD-1173	INSERT, 1/4-20 Helicoil x 1/2 long																					6	6	6
14	STD-1353	INSERT, No. 10-24 Helicoil x 3/8 long																					4	4	4
15	STD-8	WASHER, 1/4 plain																					8	8	8
16	STD-160	WASHER, 1/4 lock, internal teeth																					8	8	8
17	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																					6	6	6
18	LW-25-2.94	BOLT, 1/4-20 x 2-15/16 long, hex. hd.																					2	2	2
19	STD-35	WASHER, 5/16 plain																					4	4	4
20	STD-475	WASHER, 5/16 lock, internal teeth																					4	4	4
21	STD-1410	NUT, 5/16-18 plain																					4	4	4
22	77155	FITTING, 5/8 adjustable, 90°																					2	2	2
23	77131	TUBE ASSY., Oil scav., upper cover																					1	1	1
24	77128	TUBE ASSY., Oil scav., upper pump																					1	1	1
25	77115	TUBE ASSY., Oil scav., lower cover																					1	1	1
26	77130	TUBE ASSY., Oil scav., lower pump																					1	1	1
27	LW-16266-25-63	CLAMP																					1	1	1
28	STD-1576	HOSE, 5/8 I.D. x 31/32 O.D. x 2-1/2 long																					2	2	2
29	LW-15592-8-08	CLAMP, Hose, 15/16 I.D. x 1/2 wide																					4	4	4

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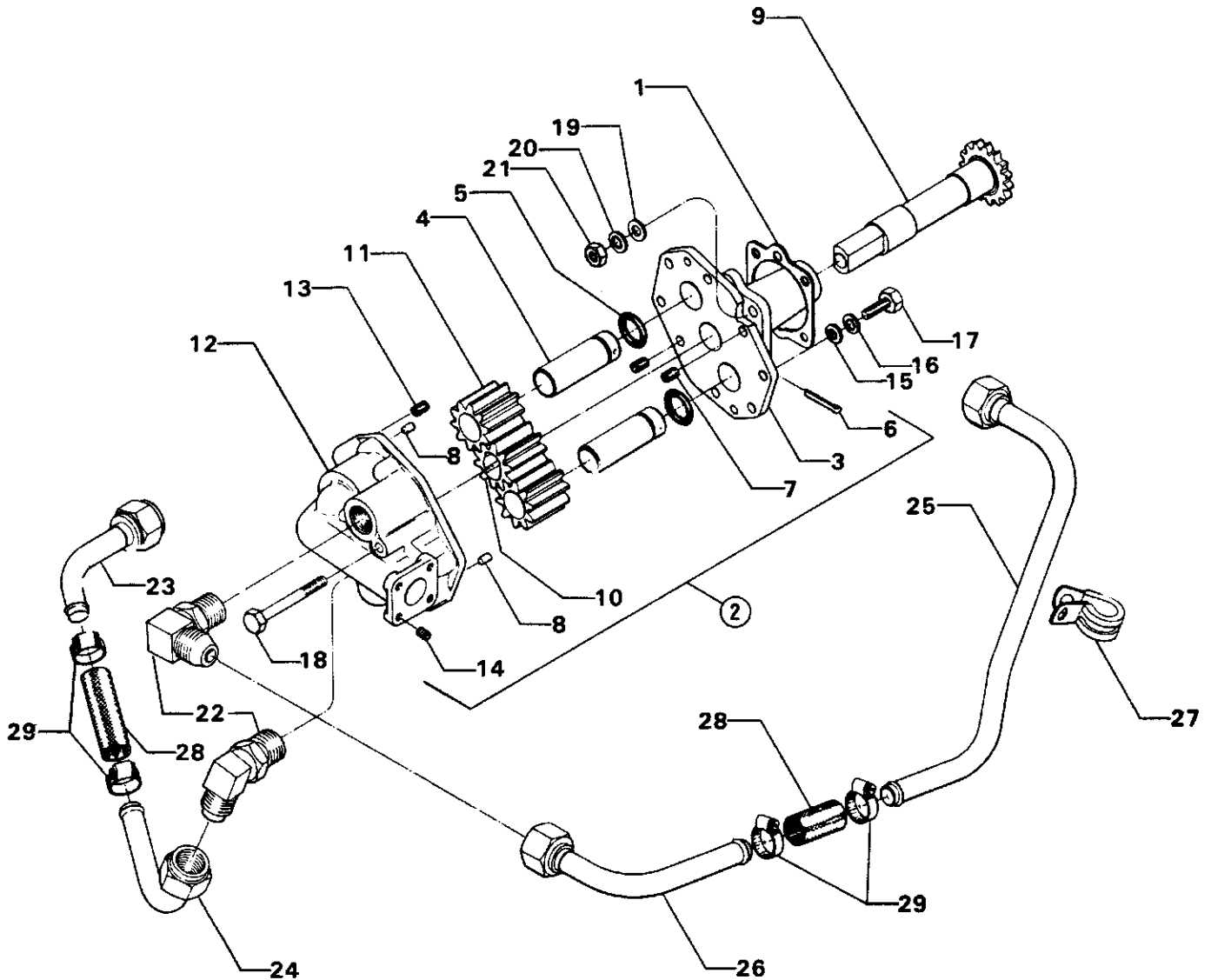
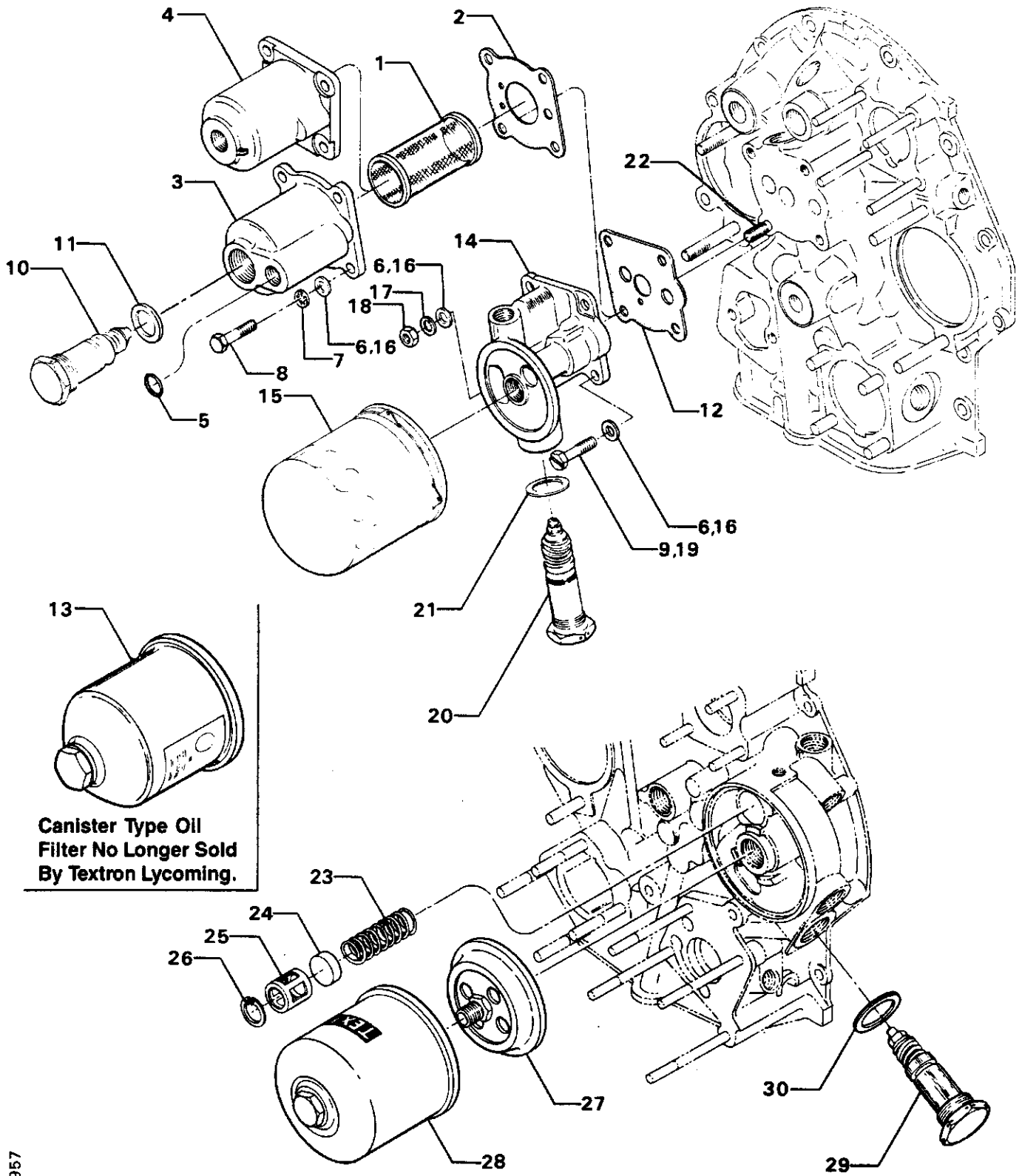


Figure 10. OIL SCAVENGE PUMP AND OIL SUCTION TUBES (AIO-360)



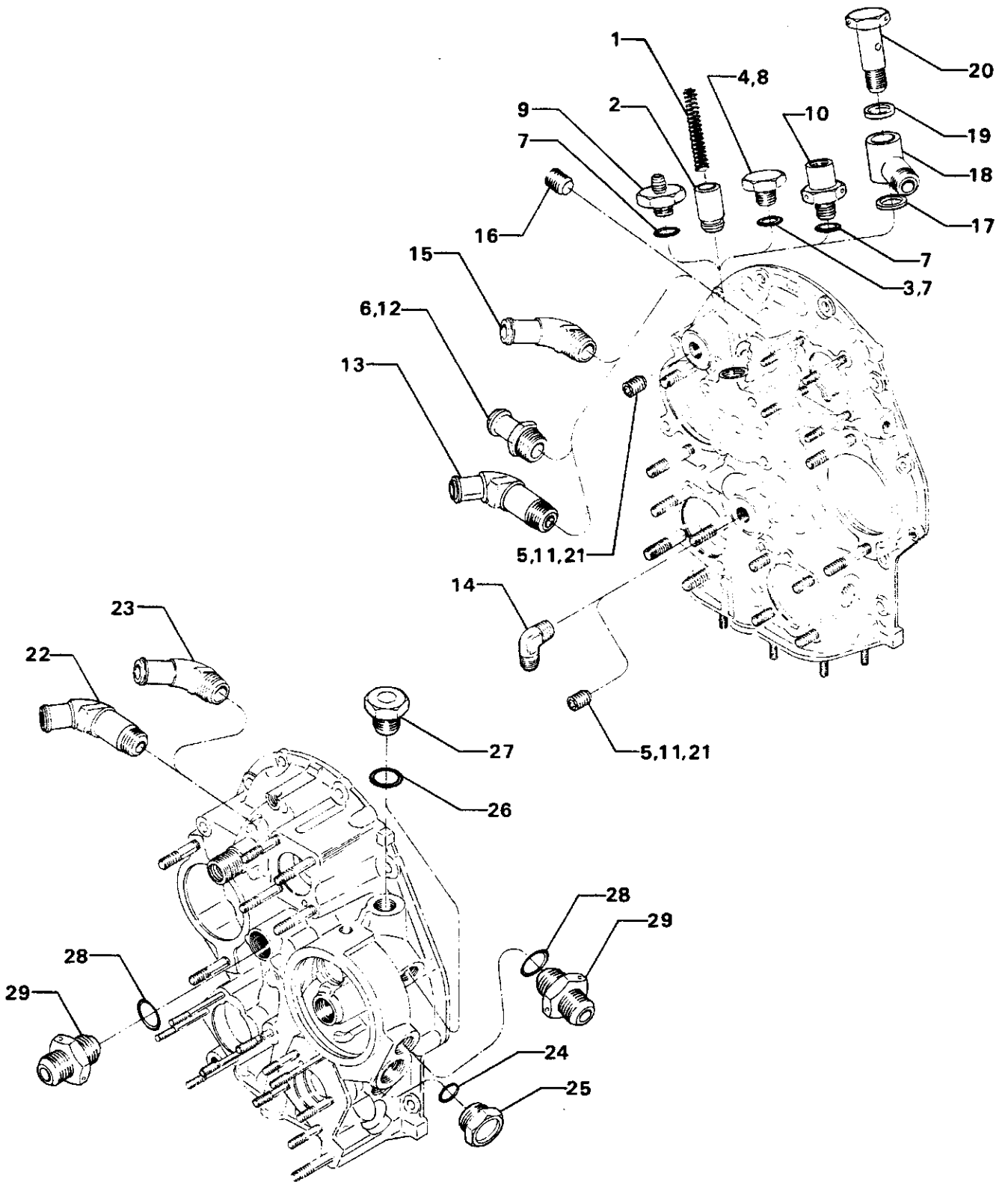
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Canister Type Oil  
Filter No Longer Sold  
By Textron Lycoming.

**Figure 11. OIL FILTER ASSEMBLY**



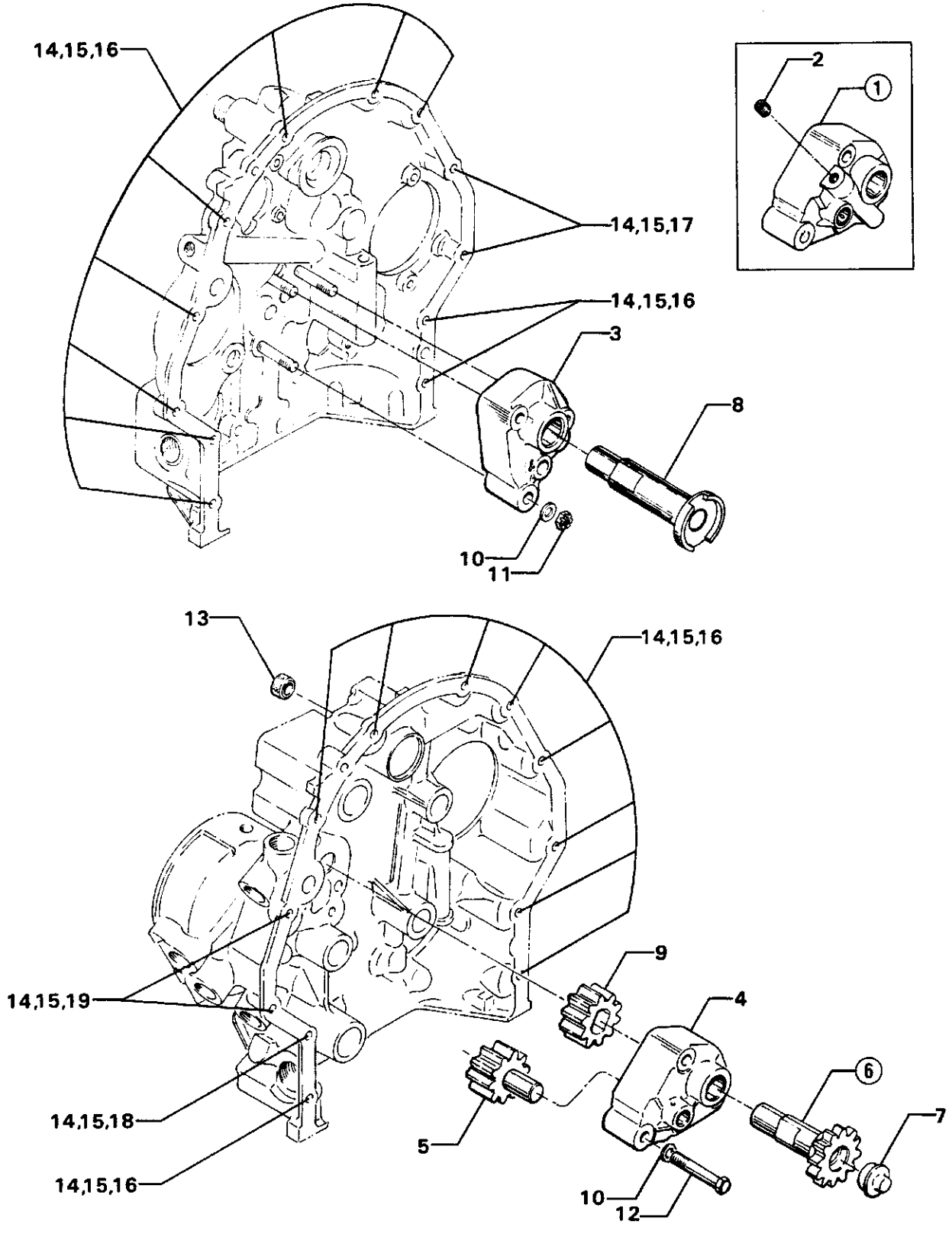


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**Figure 12. OIL COOLER AND BREATHER FITTINGS**



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**Figure 13. OIL PUMP ASSEMBLY AND ACCESSORY HOUSING ATTACHING PARTS**





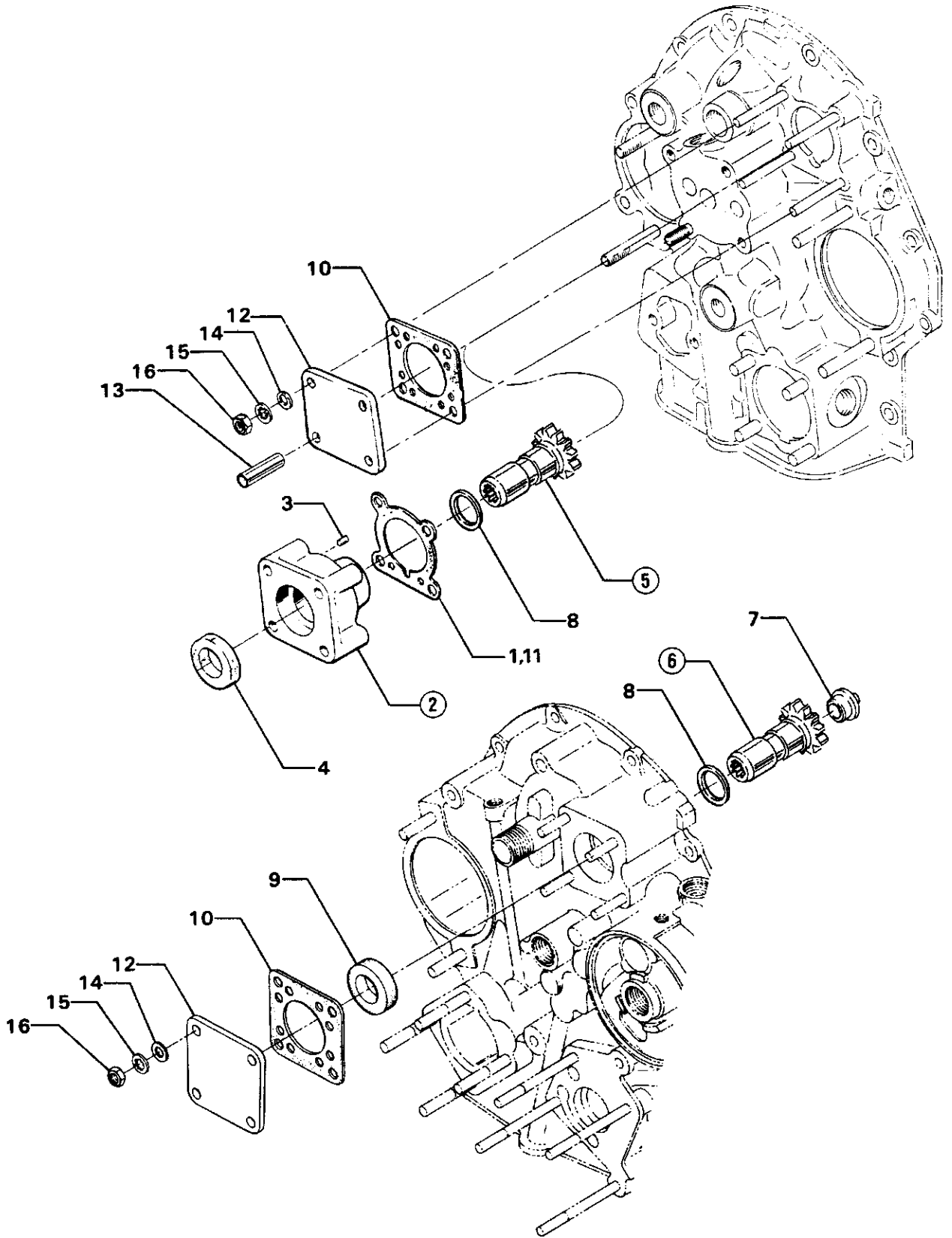
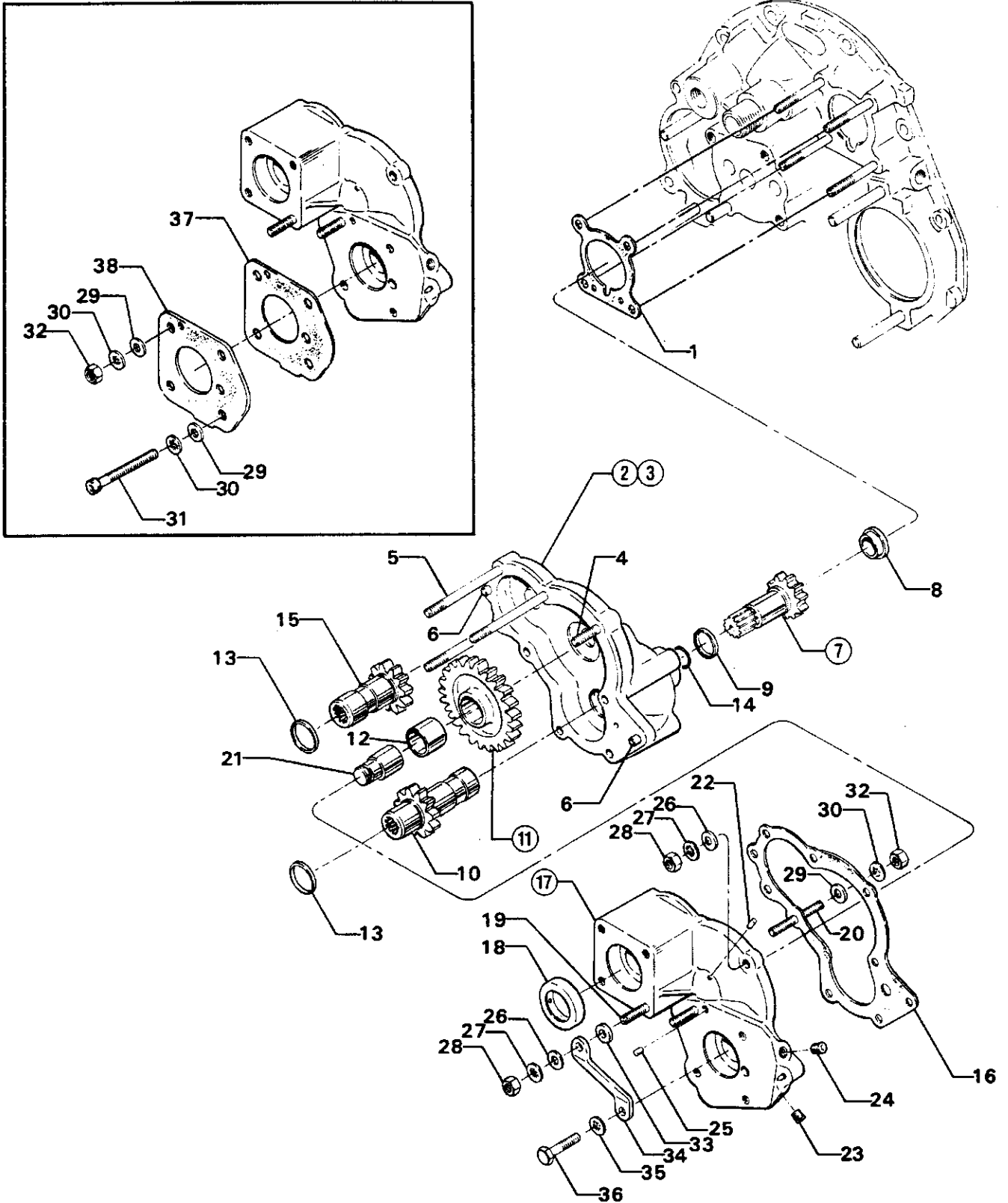


Figure 14. VACUUM PUMP DRIVES AND COVERS



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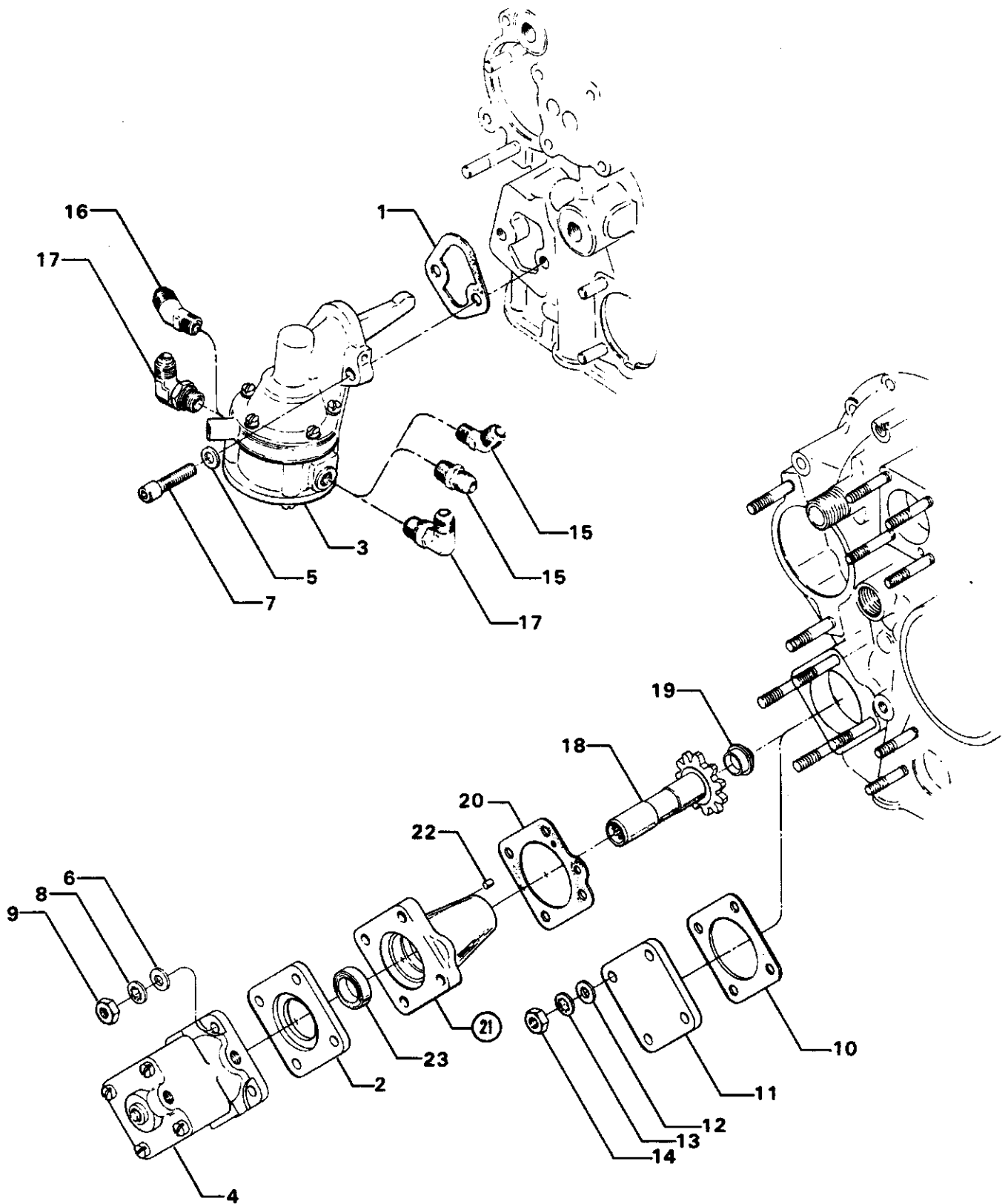
**Figure 15. VACUUM PUMP AND PROPELLER GOVERNOR (DUAL DRIVE)**

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**ACCESSORY HOUSING AND RELATED PARTS**  
**FUEL PUMP AND FUEL PUMP COVERS**

FIG. REF. 16	PART NUMBER	DESCRIPTION	O N A L	QUANTITY PER ASSEMBLY																		
				IO-360														AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	60096	GASKET, Fuel pump		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	LW-10799	SPACER, Fuel pump insulating																				
3	LW-15473	FUEL PUMP, Dual diaphragm																				
		(6441234)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	78993	FUEL PUMP, (RG-17980-J)																				
5	STD-33	WASHER, 3/8 plain		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	STD-35	WASHER, 5/16 plain																				
7	STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket																				
		hd., dr. hd.		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	STD-475	WASHER, 5/16 lock, internal teeth																				
9	STD-1410	NUT, 5/16-18 plain																				
10	1691-C	GASKET, Fuel pump																				
11	60431	COVER, Fuel pump																				
12	STD-35	WASHER, 5/16 plain																				
13	STD-475	WASHER, 5/16 lock, internal teeth																				
14	STD-1410	NUT, 5/16-18 plain																				
15	74070 *	ELBOW, 3/8 tubing, adj. 45°		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LW-16562 *	NIPPLE, 3/8 flared tube to 9/16-18 str.																				
		thd.																				
16	74070 * *	ELBOW, 3/8 tubing, adj. 45°																				
17	72377 *	ELBOW, 3/8 pipe thd., 90°																				
	72377 *	ELBOW, 3/8 pipe thd., 90°		2	2																	
18	75924	SHAFTGEAR ASSY., Fuel pump drive																				
19	61166	THRUST BUTTON, Fuel pump gear																				
20	69164	GASKET, Fuel pump adapter																				
21	69159	ADAPTER ASSY., Fuel pump drive																				
22	STD-1774	PIN, 1/8 dia. x 1/4 long																				
23	STD-213	SEAL, Oil, 3/4 I.D. x 1-3/8 O.D. x																				
		5/16 wide																				

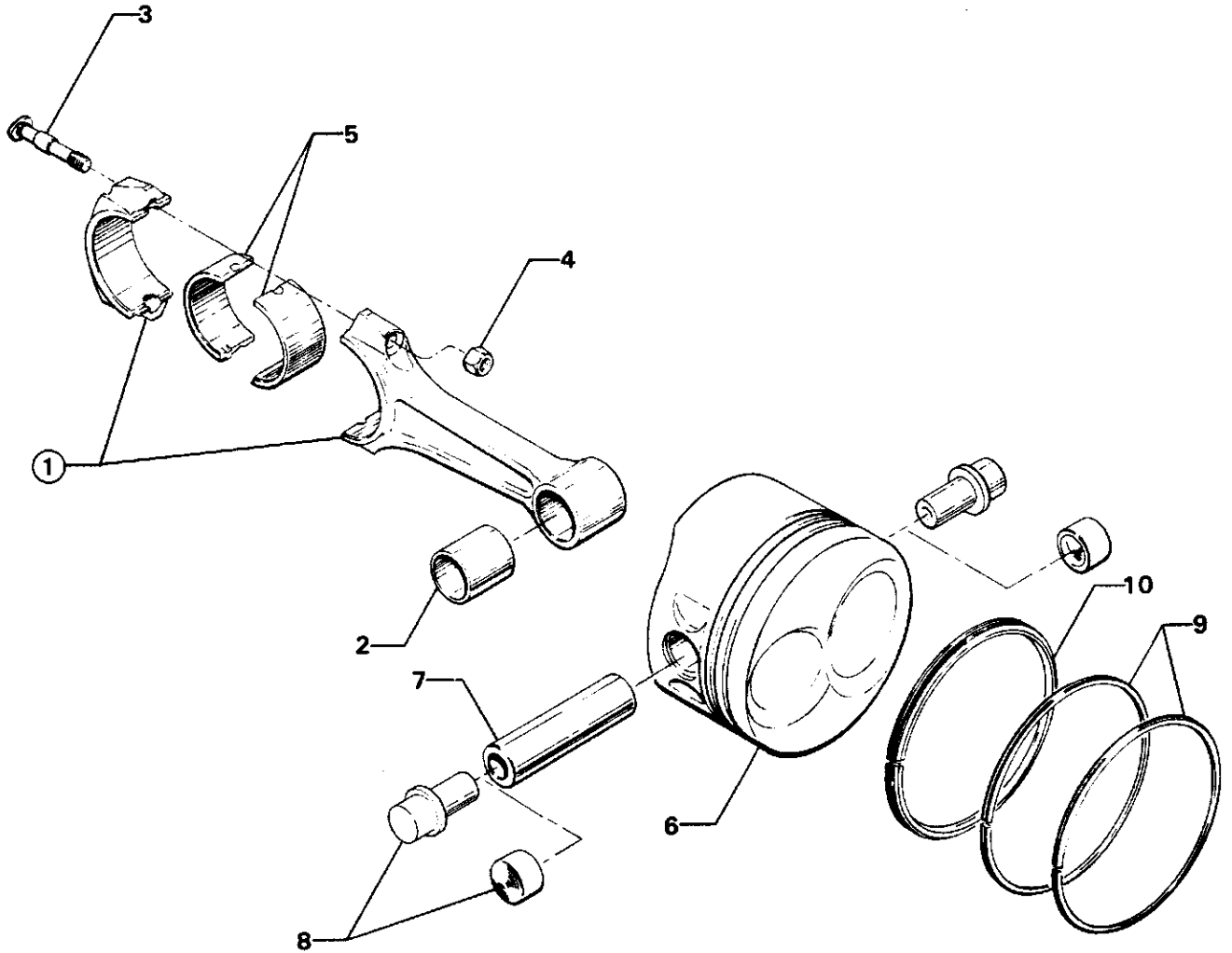
- \* Assemble in fuel pump outlet.
- \* \* Assemble in fuel pump inlet (horizontal).
- ★ Assemble in fuel pump inlet and outlet.



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**Figure 16. FUEL PUMPS AND FUEL PUMP COVERS**





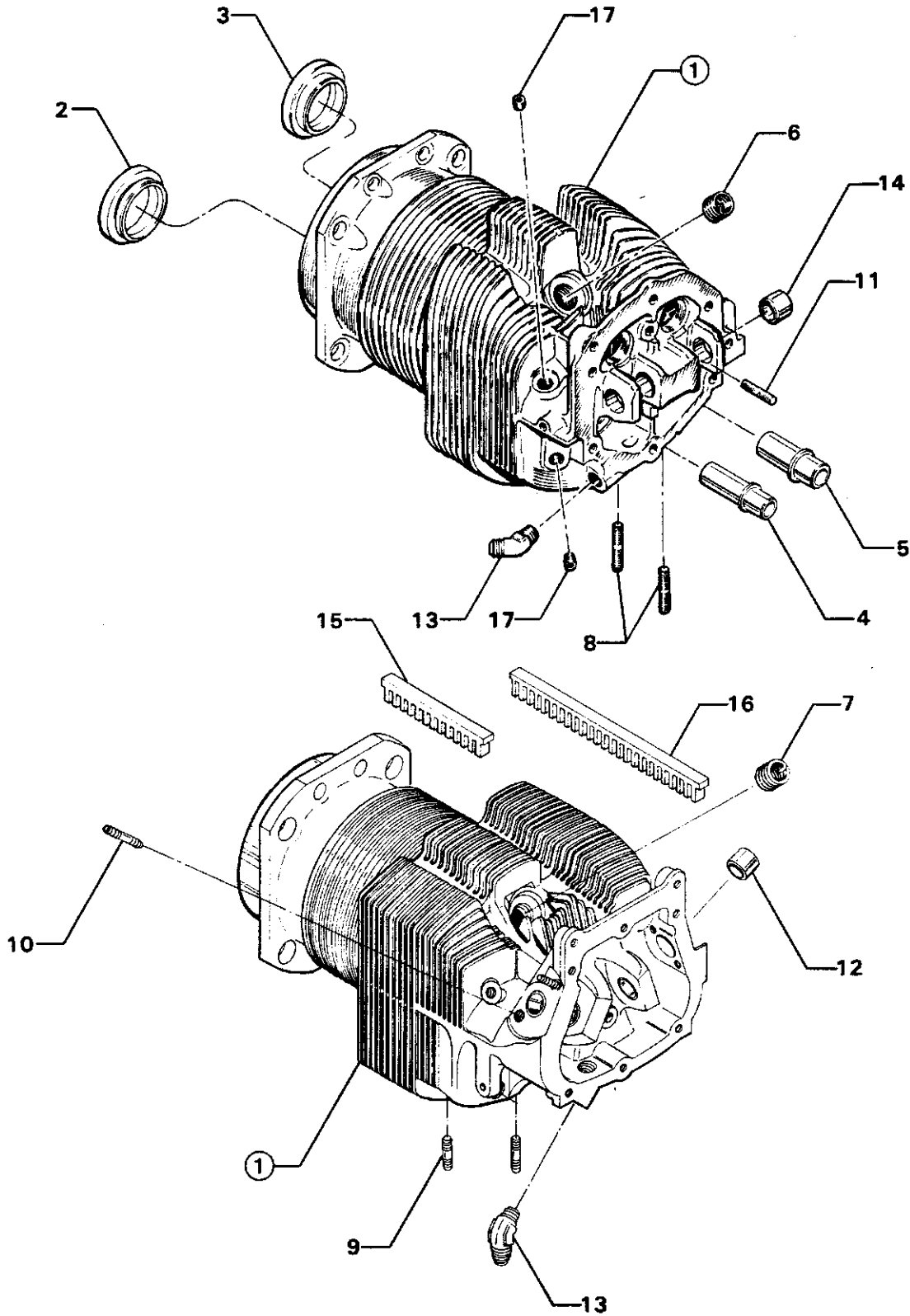
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**Figure 17. CONNECTING ROD, PISTON AND RING ASSEMBLIES**





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**Figure 18. CYLINDER ASSEMBLY**



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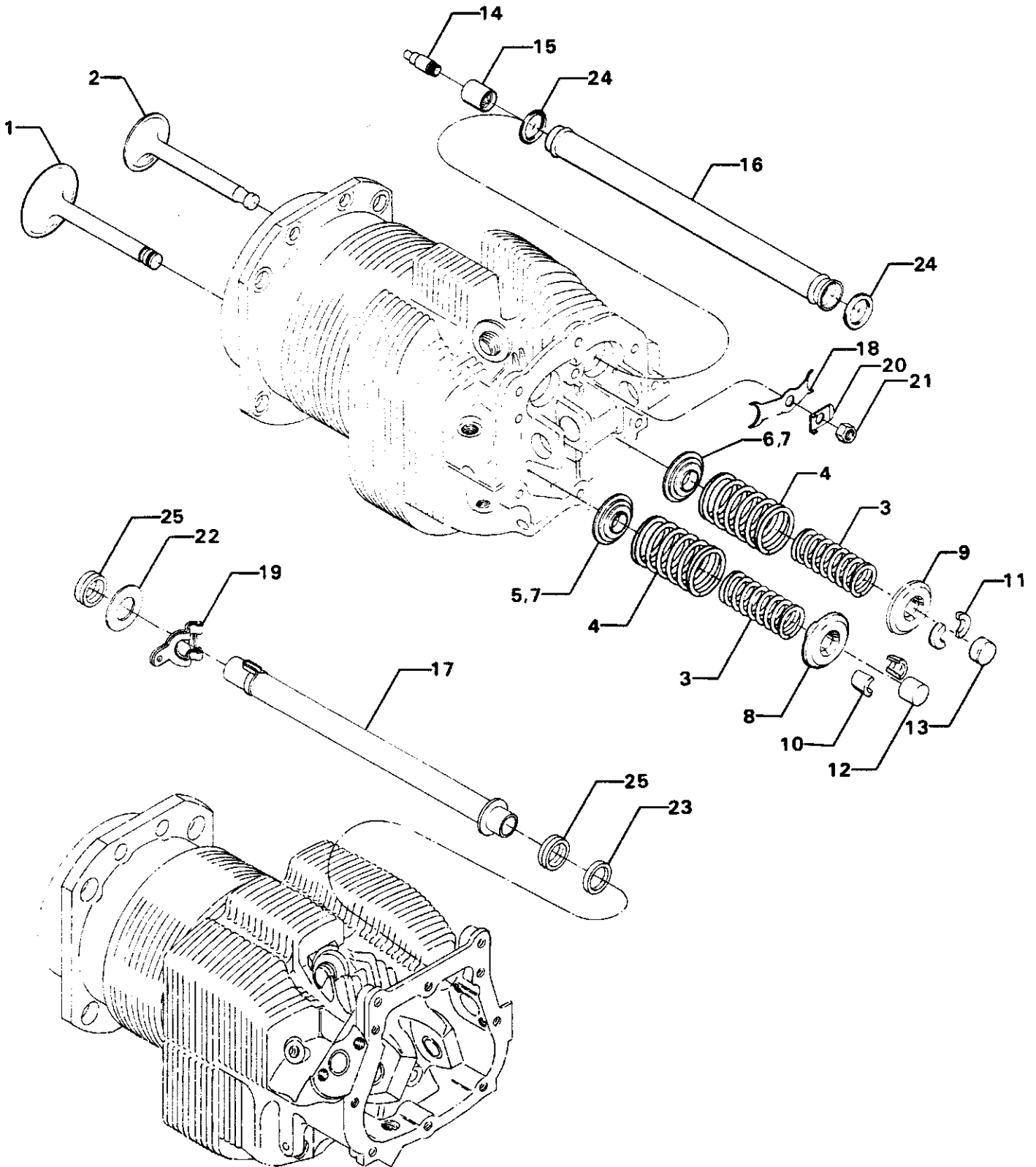
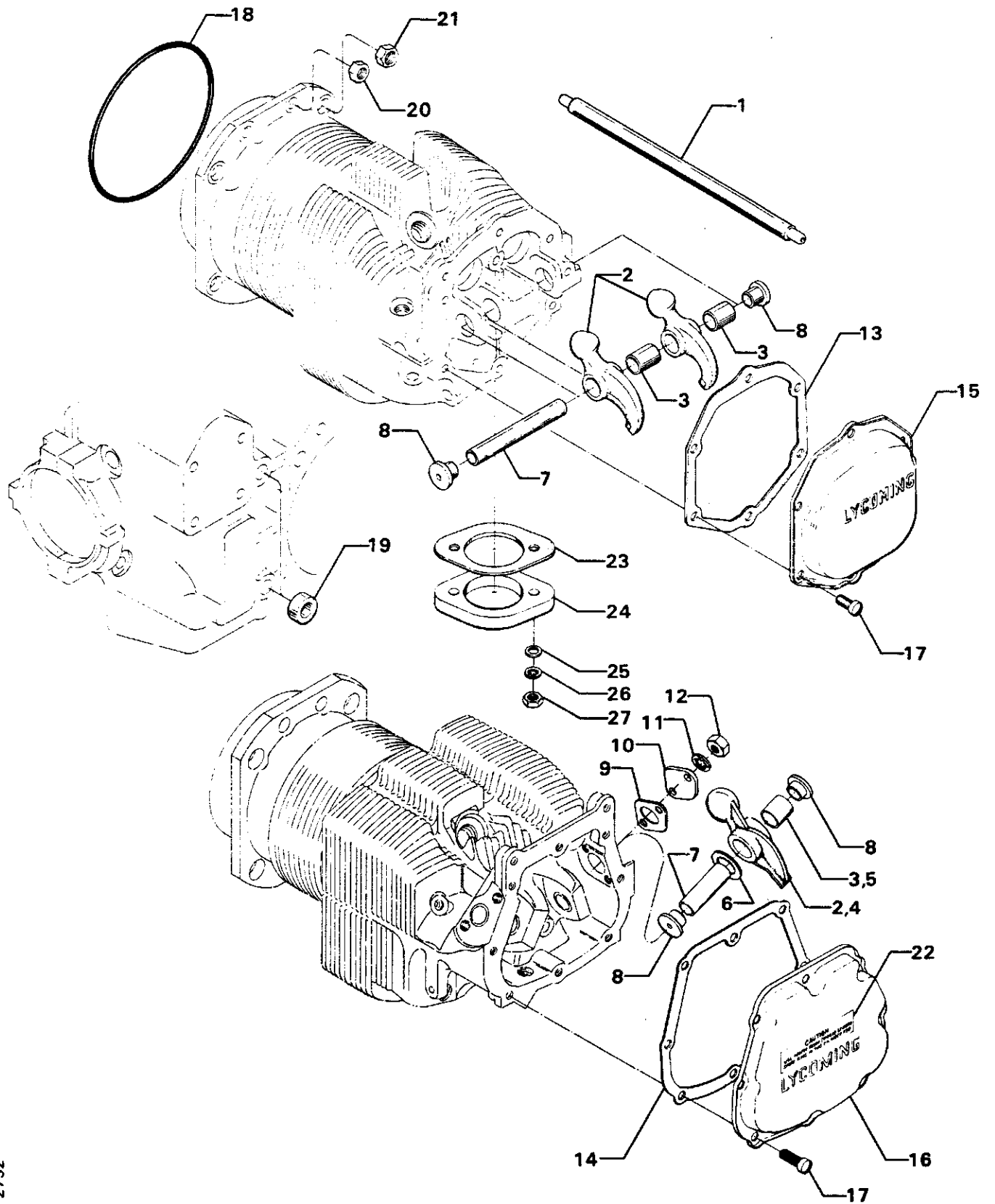


Figure 19. VALVE ASSEMBLY



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**Figure 20. CYLINDER RELATED PARTS**

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

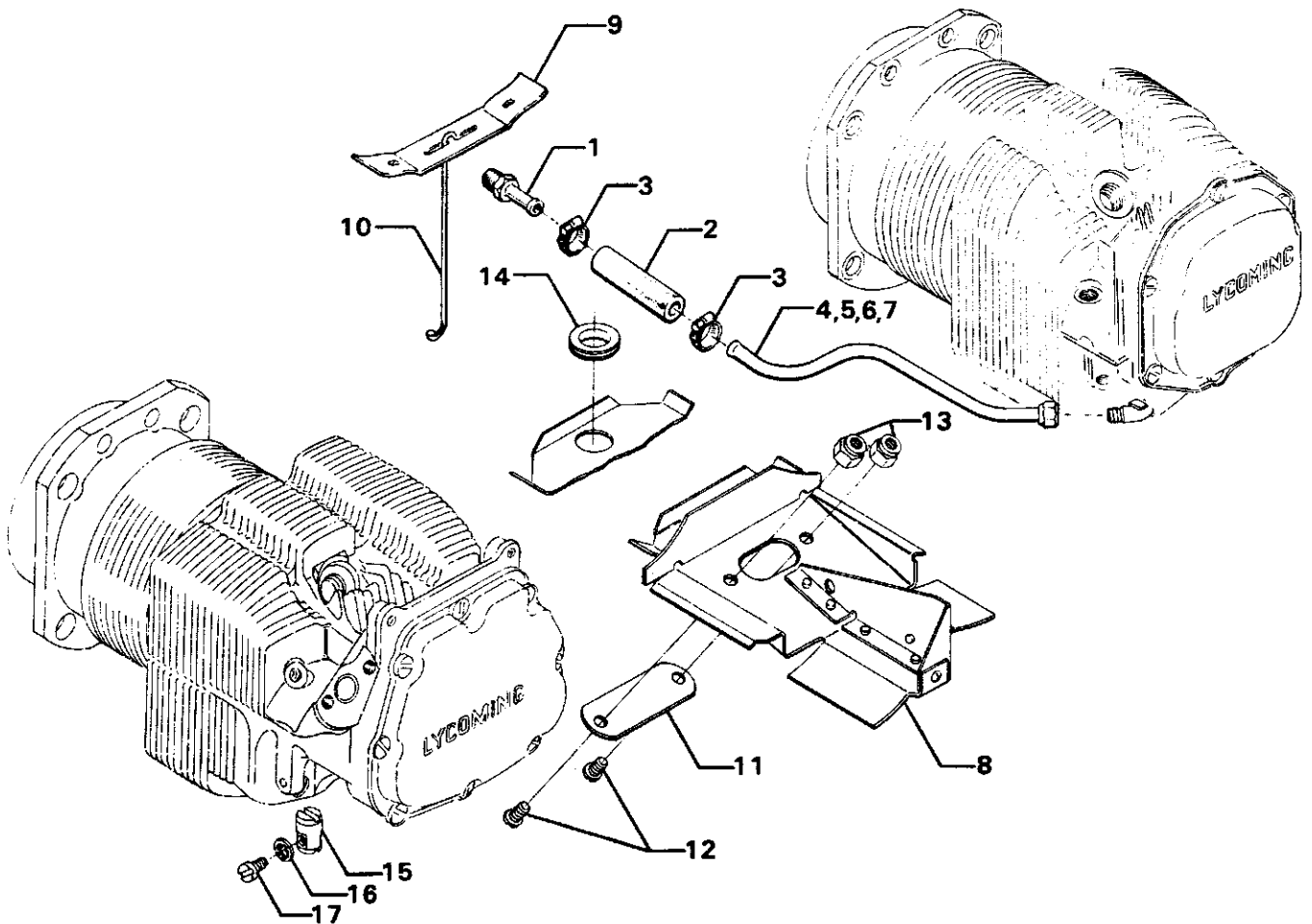
FIG. REF. 21	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360										AIO-360								
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	STD-684	NIPPLE, Straight, 3/8 I.D. hose	4																			
2	STD-1821 *	HOSE, 3/8 I.D. x 2-1/2 long											4	4	4	4	4	4	4			
	STD-2180 * *	HOSE, 3/8 I.D. x 1-13/16 long		4	4	4	4	4	4	4	4	4								4	4	4
	STD-2180 *	HOSE, 3/8 I.D. x 1-13/16 long			4	4	4					4										
3	LW-15592-5-05	CLAMP, Hose	8																			
4	68759 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 1											1	1	1	1	1	1	1			
	72702 * *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 1		1	1	1	1	1	1	1	1	1								1	1	1
	72702 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 1			1	1	1					1										
5	68760 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 2											1	1	1	1	1	1	1			
	72703 * *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 2		1	1	1	1	1	1	1	1	1								1	1	1
	LW-11847 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 2			1	1	1					1										
6	68761 *	TUBE ASSY., Cyl. hd. oil drain, cyls. no. 3 & 4											2	2	2	2	2	2	2			
	74808 * *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 3		1	1	1	1	1	1	1	1	1								1	1	1
	74808 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 3			1	1	1					1										
7	73027 * *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 4		1	1	1	1	1	1	1	1	1								1	1	1
	73027 *	TUBE ASSY., Cyl. hd. oil drain, cyl. no. 4			1	1	1					1										
8	75337	BAFFLE ASSY., Intercylinder		1	1	1	1	1	1	1	1	1								1	1	1
	75338	BAFFLE ASSY., Intercylinder		1	1	1	1	1	1	1	1	1								1	1	1
	75339	BAFFLE ASSY., Intercylinder											2		2	2	2	2	2			
	75339	BAFFLE ASSY., Intercylinder												1		1						
	LW-13389 ●	BAFFLE ASSY., Intercylinder												1		1						
9	71611	RETAINER, Intercylinder baffle	2																			
10	71610	HOOK, Intercylinder baffle retainer	2																			
11	72834	COVER, Baffle, ignition cable hole		2	2	2	2	2	2	2	2	2								2	2	2
12	STD-692	SCREW, No. 10-32 x 1/2 long, rd. hd.		4	4	4	4	4	4	4	4	4								4	4	4
13	STD-670	NUT, No. 10-32 self-locking		4	4	4	4	4	4	4	4	4								4	4	4
14	AN931-12S17	GROMMET, 3/4 I.D. x 1-3/8 O.D. x 3/8 thick		1	1	1	1	1	1	1	1	1		1			1			1	1	1
15	65614 ‡	PLUG, Baffle attaching				1	1					1										
	65614 ■	PLUG, Baffle attaching		3	3	3		3	3	3	3	3								3	3	3
	65614 ►	PLUG, Baffle attaching		4	4	4		4														
	65614 ◄	PLUG, Baffle attaching				5																
16	STD-251 ‡	WASHER, No. 10 lock, internal teeth				1	1					1										
	STD-251 ■	WASHER, No. 10 lock, internal teeth		3	3	3		3	3	3	3	3								3	3	3
	STD-251 ►	WASHER, No. 10 lock, internal teeth		4	4	4		4														

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### CYLINDER, PISTON AND VALVE TRAIN CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES (Continued)

FIG. REF. 21	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360												AIO-360							
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
	STD-251◀	WASHER, No. 10 lock, internal teeth			5																		
17	STD-1686‡	SCREW, No. 10-32 x 7/16 long, fill. hd.			1	1					1												
	STD-1686■	SCREW, No. 10-32 x 7/16 long, fill. hd.	3	3	3		3	3	3	3										3	3	3	
	STD-1686▶	SCREW, No. 10-32 x 7/16 long, fill. hd.	4	4	4		4																
	STD-1686◀	SCREW, No. 10-32 x 7/16 long, fill. hd.			5																		

- \* Parallel valve head.
- \*\* Angle valve head; Mooney installations.
- ★ Angle valve head; Cessna installations.
- Assemble between cyls. no. 1 & 3.
- ‡ Assemble in front of no. 1 cylinder head.
- Assemble in rear of no. 3 & 4 cylinder heads and front of no. 1 cylinder head.
- ▶ Baffle attaching parts for all cylinders.
- ◀ Customer request; baffle attaching parts for each cylinder plus 1 extra set.



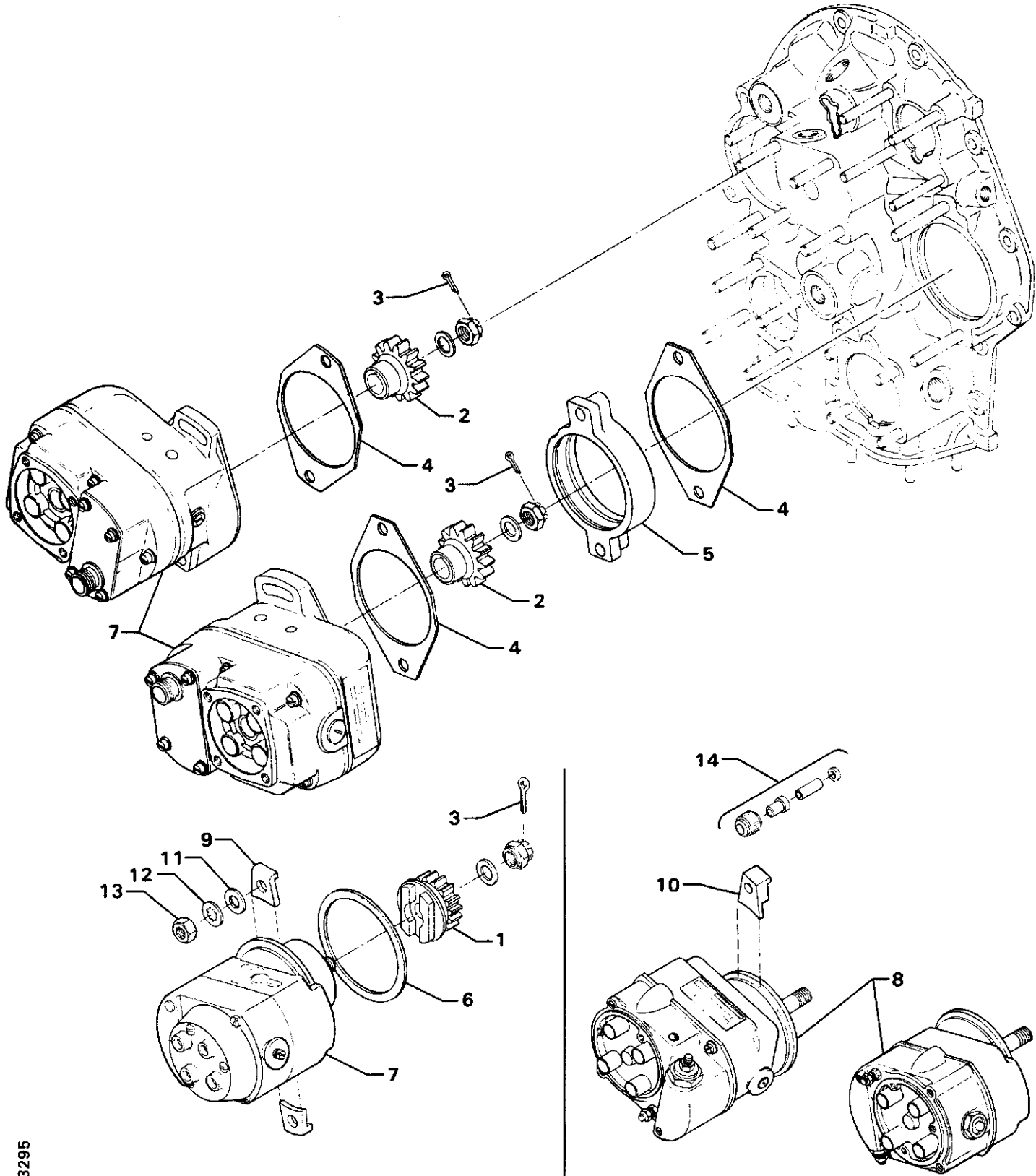
2698

Figure 21. CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES





Williamsport Plant



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**Figure 22. MAGNETOS AND MAGNETO DRIVES (IO-360-A)**

Williamsport Plant

### IGNITION SYSTEM

#### IGNITION HARNESSSES, SPARK PLUGS AND ATTACHING HARDWARE (IO-360-A)

FIG. REF. 23	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360												AIO-360						
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	67P20400	HARNESS, (Right), Slick No. M-2976			1	1		1	1	1												
	67P20403	HARNESS, (Left), Slick No. M-2977			1	1		1	1	1												
	67P20402	HARNESS, (Right), Slick No. M-4010		1																		
	67P20401	HARNESS, (Left), Slick No. M-2975		1																		
	67P20402	HARNESS, (Right), Slick No. M-4010			1	1		1	1													
	67P20405	HARNESS, (Left), Slick			1	1		1	1													
	67P20412	HARNESS, (Right), Slick No. M-4020			1	1		1	1	1												
	67P20413	HARNESS, (Left), Slick No. M-4019			1	1		1	1	1												
	67P20414	HARNESS, (Right), Slick No. M-2982			1	1			1													
	67P20415	HARNESS, (Left), Slick No. M-2981			1	1			1													
	67P20416	HARNESS, (Right), Slick No. M-2984			1	1			1	1	1											
	67P20417	HARNESS, (Left), Slick No. M-2983			1	1			1	1	1											
	67P20418	HARNESS, (Right), Slick No. M-4021			1	1			1													
	67P20419	HARNESS, (Left), Slick No. M-4022			1	1			1													
	67P20428	HARNESS, (Right), Slick No. M-2990		1	1	1			1	1	1											
	67P20429	HARNESS, (Left), Slick No. M-2989		1	1	1			1	1	1											
	67L20422	HARNESS, (Right), Slick No. M-4026			1	1			1													
	67L20423	HARNESS, (Left), Slick No. M-4025			1	1			1													
2	1182-J3 *	SPARK PLUG, Champion (REM38E)		8	8	8		8	8	8	8	8										
	1182-N4 *	SPARK PLUG, Champion (REB37E)				8																
	1182-P3 *	SPARK PLUG, Auburn (SR86)						8														
	01P19762-1-1 **	BAG, Magneto harness attaching		1	1	1			1	1	1											
	01P19762-1-2 **	BAG, Magneto harness attaching			1	1			1													
	01P19762-1-6 **	BAG, Magneto harness attaching			1	1					1											
	01P19762-1-7 **	BAG, Magneto harness attaching						1														
	01P19762-1-43 **	BAG, Magneto harness attaching		1																		
	01P19762-2-5 **	BAG, Magneto harness attaching			1	1		1	1	1	1	1										
	01P19762-2-7 **	BAG, Magneto harness attaching			1	1			1		1											
	01P19762-2-9 **	BAG, Magneto harness attaching			1	1			1													
	01P19762-2-12 **	BAG, Magneto harness attaching			1	1			1													

\* Item No. 2 spark plugs are used in current production only. Additional spark plugs are available for these engines. See latest edition of 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.

**BAG - MAGNETO HARNESS ATTACHING**

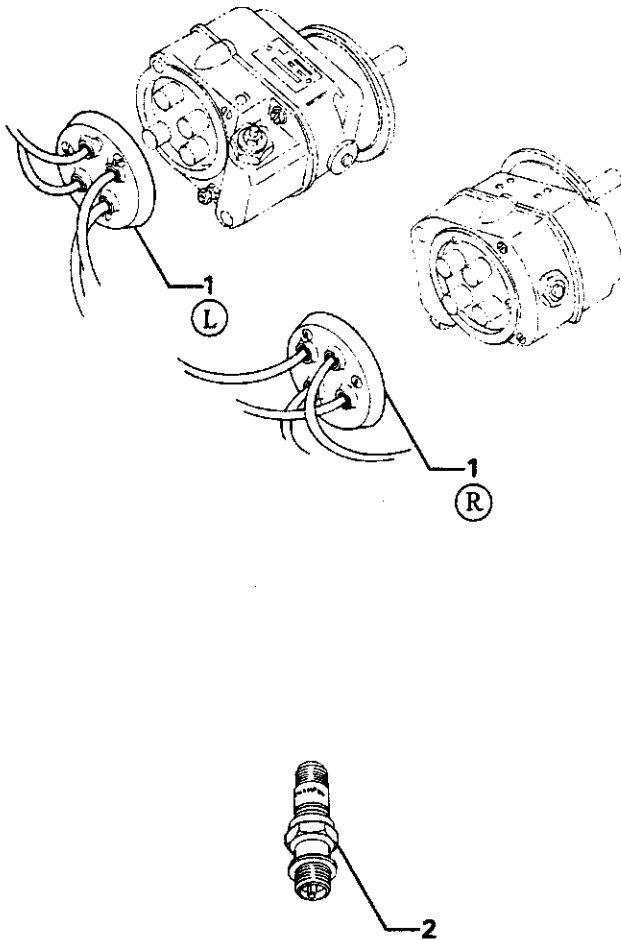
P/N'S 01P19762-1-1, 01P19762-1-6, 01P19762-1-7, 01P19762-1-43			P/N 01P19762-1-2		
Part No.	Part Name	Qty.	Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	2	LW-16266-25-25	CLAMP, 1 wire	2
LW-14060	CLIP, 2 wire	3	LW-14060	CLIP, 2 wire	3
STD-8	WASHER, 1/4 plain	8	STD-8	WASHER, 1/4 plain	8
STD-1874	SCREW, 1/4 lock (rocker box)	6	STD-1874	SCREW, 1/4 lock (rocker box)	6
76734	ZIP STRAP	8	76734	ZIP STRAP	8
LW-16266-25-50	CLAMP, 4 wire	1	LW-16266-25-50	CLAMP, 4 wire	1
STD-1411	NUT, 1/4 plain	2	STD-696	WASHER, 1/4 thin	4
STD-696	WASHER 1/4 thin	4	AN500-416-18	SCREW, 1/4 x 1-1/8 long	3
AN500-416-18	SCREW, 1/4 x 1-1/8 long	3	LW-M-2375	PLATE, Baffle	2
LW-M-2375	PLATE, Baffle	2			

P/N'S 01P19762-2-5, 01P19762-2-7, 01P19762-2-9		
Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
STD-1874	SCREW, 1/4 lock (rocker box)	4
76734	ZIP STRAP	12
LW-16266-25-50	CLIP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73152	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	SCREW, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE	2

P/N 01P19762-2-12		
Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
77410	BRACKET, Ext. fuel inj. line	1
STD-1874	SCREW, 1/4 lock	4
76734	ZIP STRAP	12
LW-16266-25-50	CLAMP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73132	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	WASHER, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE	2



A-3296

Figure 23. IGNITION HARNESSES, SPARK PLUGS AND ATTACHING HARDWARE (IO-360-A)

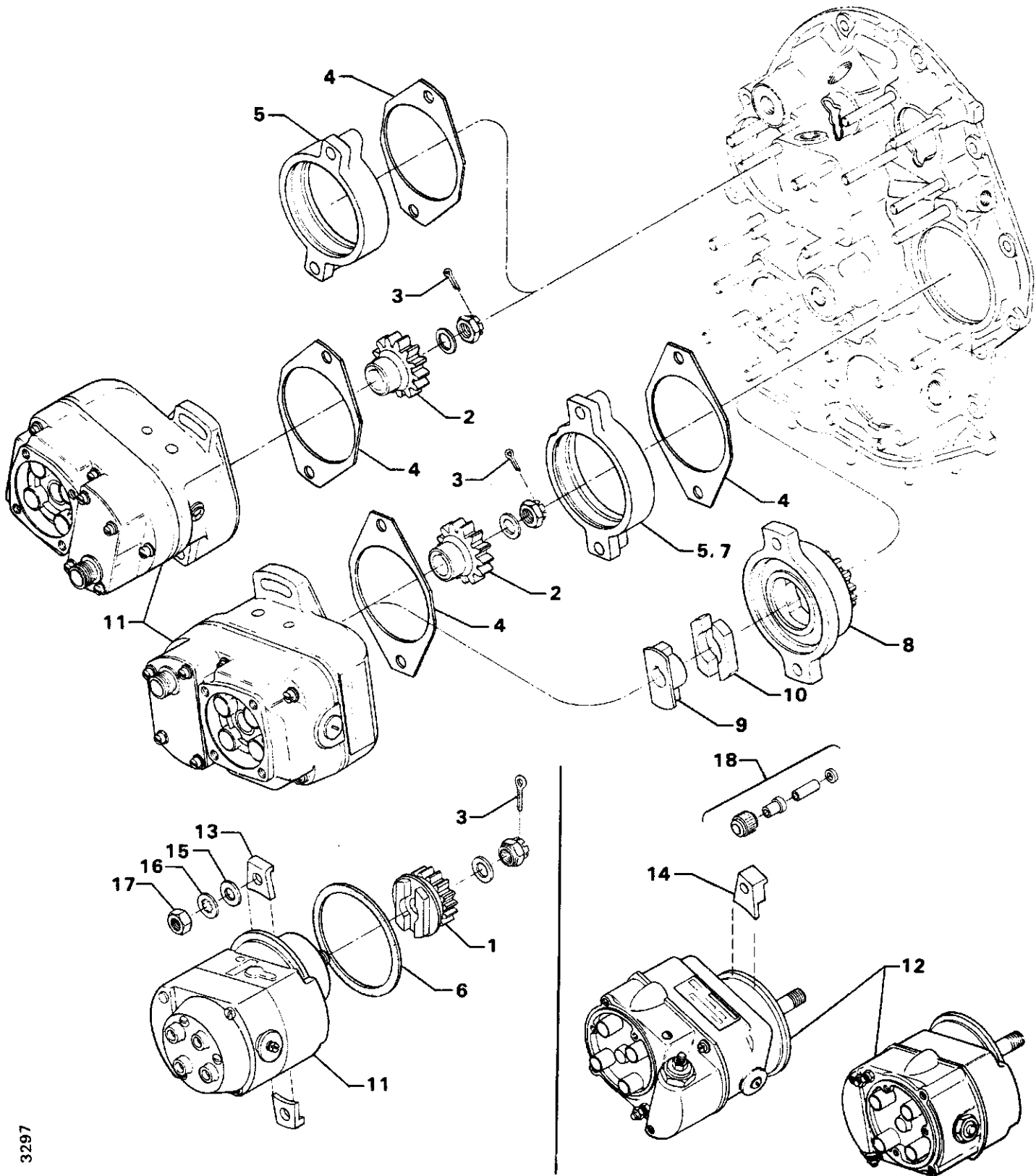
Williamsport Plant

**IGNITION SYSTEM**  
**MAGNETOS AND MAGNETO DRIVES (IO-360-B)**

FIG. REF. 24	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360										AIO-360								
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	61665	GEAR, Magneto, impulse coupling													1	1			1			
	61665	GEAR, Magneto, impulse coupling													2	2	2	2				
2	68C19622	GEAR, Magneto													1	1			1			
	68C19622	GEAR, Magneto										2	2									
3	STD-713	COTTER PIN, 3/32 x 3/4 long										2	2	2	2	2	2	2				
4	62224	GASKET, Magneto adapter													1	1			1			
	62224	GASKET, Magneto adapter										2	2	2	2	2	2					
	62224	GASKET, Magneto adapter & magneto													3				3			
	62224	GASKET, Magneto adapter & magneto																	4			
5	LW-12706	ADAPTER, Magneto, impulse coupling													1	1						
	LW-12706	ADAPTER, Magneto, impulse coupling													2	2	2	2				
6	LW-12681	GASKET, Magneto										2	2	2	2	2	2	2				
7	LW-12706	ADAPTER, Magneto, imp. coupling (left)																	1			
8	LW-15416	ADAPTER ASSY., Magneto drive (right)																	1			
	LW-14229	BEARING, Duplex																	1			
	LW-14228	GEAR, Magneto drive retainer																	1			
9	LW-14910	COUPLING, Magneto drive (right)																	1			
10	LW-14230	CUSHION, Magneto drive (right)																	2			
		— BENDIX —																				
11	LW-51360-29	MAGNETO, S4LN-20															1		1			
	LW-51360-37	MAGNETO, S4LN-21, impulse coupling															1		1			
	LW-163045-3	MAGNETO, S4LN-204											1	1								
	LW-163005-2	MAGNETO, S4LN-200, retard breaker											1	1								
	LW-163045-6 *	MAGNETO, S4LN-204												1								
	LW-163005-2	MAGNETO, S4LN-200, retard breaker												1								
	LW-349305-1	MAGNETO, S4LN-1209														1	1					
	LW-349365-3	MAGNETO, S4LN-1227, imp. coupling														1	1					
	LW-349365-3	MAGNETO, S4LN-1227, imp. coupling														2	2	2	2			
		— SLICK —																				
12	66HP-0SANN	MAGNETO, (Right), Model No. 4270											1	1								
	66HR25SANN	MAGNETO, (Left), Model No. 4247											1	1								
	66HP-0SAEN	MAGNETO, (Right), Model No. 4242												1								
	66HR25SANN	MAGNETO, (Left), Model No. 4247												1								
	66HP-0SANN	MAGNETO, (Right), Model No. 4270														1	1			1		
	66HC25SFNN	MAGNETO, (Left), Model No. 4273														1	1			1		
	66HR25SANN	MAGNETO, (Rt. & Lft.) Model No. 4247														2	2	2	2			
13	66M19385	CLAMP, Magneto														4	4	4	4			
14	76961	CLAMP, Magneto														4	4	4	4	4	4	4
15	STD-1727	WASHER, Plain, 3/4 O.D. x 21/64 I.D.																				
		x 1/8 thick														4	4	4	4	4	4	4
16	STD-475	WASHER, 5/16 lock, internal teeth														4	4	4	4	4	4	4
17	STD-1410	NUT, 5/16-18 plain														4	4	4	4	4	4	4
18	LW-52305-1	KIT ASSY., Magneto ground terminal																		2		
	LW-157209	KIT, Magneto ground terminal													2	2						
	LW-157208	KIT, Magneto retard terminal													1	1						

\* Magneto w/ electric tachometer pickup.

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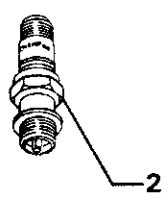
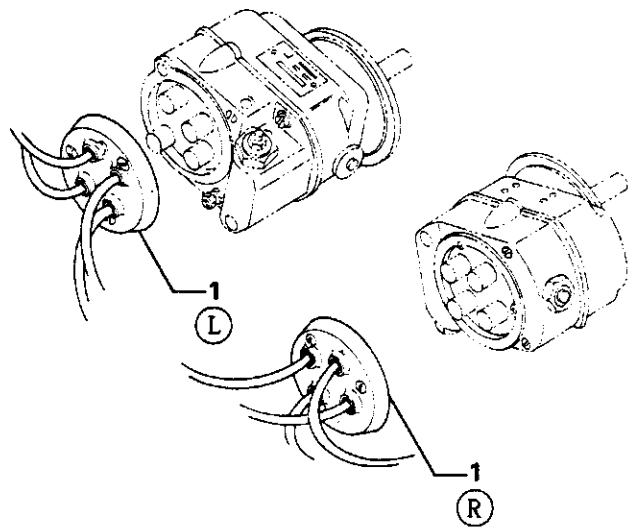
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Figure 24. MAGNETOS AND MAGNETO DRIVES (IO-360-B)



Williamsport Plant

**BAG - MAGNETO HARNESS ATTACHING**



**P/N'S 01P19762-1-1, 01P19762-1-6, 01P19762-1-43**

Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	2
LW-14060	CLIP, 2 wire	3
STD-8	WASHER, 1/4 plain	8
STD-1874	SCREW, 1/4 lock	6
76734	ZIP STRAP	8
LW-16266-25-50	CLAMP, 4 wire	1
STD-1411	NUT, 1/4 plain	2
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	3
LW-M-2375	PLATE, Baffle	2

**P/N'S 01P19762-2-5, 01P19762-2-7**

Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
STD-1874	SCREW, 1/4 lock	4
76734	ZIP STRAP	12
LW-16266-25-50	CLAMP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73152	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	WASHER, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE	2

**P/N 01P19762-2-12**

Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
77410	BRACKET, Ext. fuel inj. line	1
STD-1874	SCREW, 1/4 lock	4
76734	ZIP STRAP	12
LW-16266-25-50	CLAMP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73132	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	WASHER, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE	2

Figure 25. IGNITION HARNESSES, SPARK PLUGS AND ATTACHING HARDWARE (IO-360-B)

A-3296

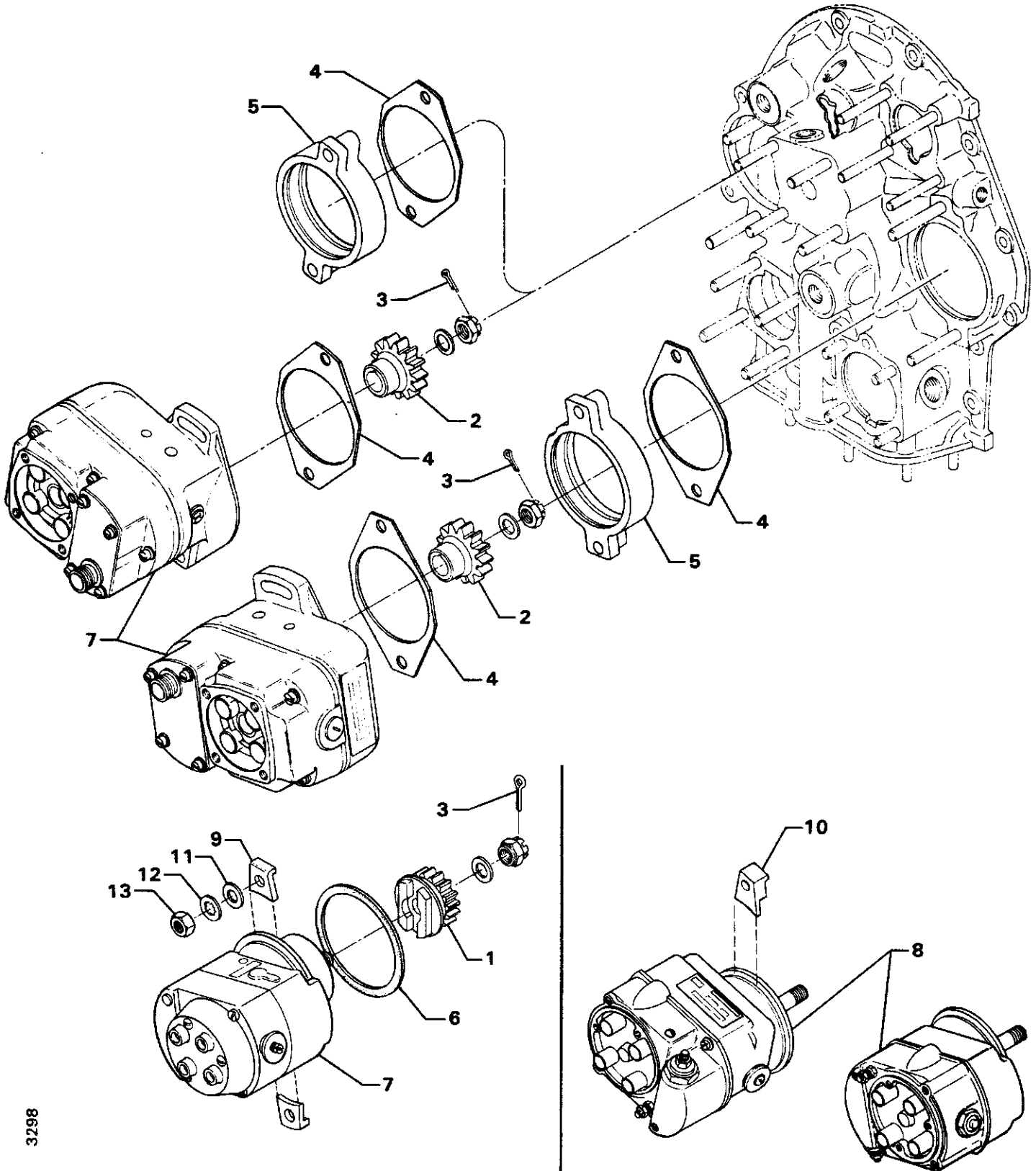


Williamsport Plant

**IGNITION SYSTEM**  
**MAGNETOS AND MAGNETO DRIVES (AIO-360)**

FIG. REF. 26	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																						
				IO-360														AIO-360								
				A1A	A1B	A1B6	A1B6D	A1C	A1D	A1D6	A2A	A2B	A3B6D	B1B	B1D	B1E	B1F	B2F	B2F6	B4A	A1A	A1B	B1B			
1	61665	GEAR, Magneto, impulse coupling																				1	1			
	61665	GEAR, Magneto, impulse coupling																					2			
2	68C19622	GEAR, Magneto																				1	1			
	68C19622	GEAR, Magneto																				2	2			
3	STD-713	COTTER PIN, 3/32 x 3/4 long																				2	2	2		
4	62224	GASKET, Magneto adapter																					1	1		
	62224	GASKET, Magneto adapter																					2			
5	LW-12706	ADAPTER, Magneto, impulse coupling																					1	1		
	LW-12706	ADAPTER, Magneto, impulse coupling																					2			
6	LW-12681	GASKET, Magneto																					2	2	2	
		— BENDIX —																								
7	LW-349305-1	MAGNETO, S4LN-1209																						1		
	LW-349365-3	MAGNETO, S4LN-1227, imp. coupling																						1	1	
	LW-349305-1	MAGNETO, S4LN-1209																						1	1	
	LW-349365-9	MAGNETO, S4LN-1227, imp. coupling																						1		
	LW-349305-1	MAGNETO, S4LN-1209																						1		
	LW-349285-7	MAGNETO, S4LN-1208, retard breaker																						1		
	LW-349365-9	MAGNETO, S4LN-1227, imp. coupling																						2		
		— SLICK —																								
8	66HP-0SANN	MAGNETO, (Right), Model No. 4270																					1	1	1	
	66HR15SANN	MAGNETO, (Left), Model No. 4245																						1	1	1
	66HC15SFNN	MAGNETO, (Right & Left), Model No. 4272																						2		
	66HP-0SANN	MAGNETO, (Right), Model No. 4270																							1	
	66HC25SFNN	MAGNETO, (Left), Model No. 4273																							1	
9	66M19385	CLAMP, Magneto																					4	4	4	
10	76961	CLAMP, Magneto																					4	4	4	
11	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick																					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	

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Figure 26. MAGNETOS AND MAGNETO DRIVES (A10-360)

Williamsport Plant

**IGNITION SYSTEM**

**IGNITION HARNESSES, SPARK PLUG AND ATTACHING HARDWARE (AIO-360)**

FIG. REF. 27	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360														AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	67P20400	HARNESS, (Right), Slick No. M-2976																			1	1
	67P20403	HARNESS, (Left), Slick No. M-2977																			1	1
	67P20402	HARNESS, (Right), Slick No. M-4010																			1	1
	67P20405	HARNESS, (Left), Slick																			1	1
	67P20412	HARNESS, (Right), Slick No. M-4020																			1	1
	67P20413	HARNESS, (Left), Slick No. M-4019																			1	1
	67P20414	HARNESS, (Right), Slick No. M-2982																				1
	67P20415	HARNESS, (Left), Slick No. M-2981																				1
	67P20416	HARNESS, (Right), Slick No. M-2984																				1
	67P20417	HARNESS, (Left), Slick No. M-2983																				1
	67P20418	HARNESS, (Right), Slick No. M-4022																				1
	67P20419	HARNESS, (Left), Slick No. M-4021																				1
	67P20428	HARNESS, (Right), Slick No. M-2990																				1
	67P20429	HARNESS, (Left), Slick No. M-2989																				1
	67L20422	HARNESS, (Right), Slick No. M-4026																				1
	67L20423	HARNESS, (Left), Slick No. M-4025																				1
2	1182-D4 *	SPARK PLUG, Champion (RHM38E)																			8	8
	01P19762-1-1 **	BAG, Magneto harness attaching																				1
	01P19762-1-2 **	BAG, Magneto harness attaching																				1
	01P19762-1-7 **	BAG, Magneto harness attaching																			1	
	01P19762-2-5 **	BAG, Magneto harness attaching																			1	1
	01P19762-2-7 **	BAG, Magneto harness attaching																				1
	01P19762-2-9 **	BAG, Magneto harness attaching																				1
	01P19762-2-12 **	BAG, Magneto harness attaching																			1	1

- \* Item No. 2 spark plug is used in current production only. Additional spark plugs are available for these engines. See latest edition of Textron Lycoming Service Instruction No. 1042 for complete listing of all approved spark plugs.
- \*\* See page 4-12 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 with each bag.

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### BAG - MAGNETO HARNESS ATTACHING

P/N'S 01P19762-1-1, 01P19762-1-7			P/N 01P19762-1-2		
Part No.	Part Name	Qty.	Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	2	LW-16266-25-25	CLAMP, 1 wire	2
LW-14060	CLIP, 2 wire	3	LW-14060	CLIP, 2 wire	3
STD-8	WASHER, 1/4 plain	8	STD-8	WASHER, 1/4 plain	8
STD-1874	SCREW, 1/4 lock	6	STD-1874	SCREW, 1/4 lock (rocker box)	6
76734	ZIP STRAP	8	76734	ZIP STRAP	8
LW-16266-25-50	CLAMP, 4 wire	1	LW-16266-25-50	CLIP, 4 wire	1
STD-1411	NUT, 1/4 plain	2	STD-696	WASHER, 1/4 thin	4
STD-696	WASHER 1/4 thin	4	AN500-416-18	SCREW, 1/4 x 1-1/8 long	3
AN500-416-18	SCREW, 1/4 x 1-1/8 long	3	LW-M-2375	PLATE, Baffle	2
LW-M-2375	PLATE, Baffle	2			

P/N'S 01P19762-2-5, 01P19762-2-7, 01P19762-2-9		
Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
STD-1874	SCREW, 1/4 lock	4
76734	ZIP STRAP	12
LW-16266-25-50	CLAMP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73152	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	SCREW, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE	2

P/N 01P19762-2-12		
Part No.	Part Name	Qty.
LW-16266-25-25	CLAMP, 1 wire	4
LW-14060	CLIP, 2 wire	4
STD-8	WASHER, 1/4 plain	8
STD-160	WASHER, 1/4 lock	1
77410	BRACKET, Ext. fuel inj. line	1
STD-1874	SCREW, 1/4 lock (rocker box)	4
76734	ZIP STRAP	12
LW-16266-25-50	CLIP, 4 wire	3
STD-1411	NUT, 1/4 plain	1
STD-696	WASHER, 1/4 thin	4
AN500-416-18	SCREW, 1/4 x 1-1/8 long	1
STD-1925	SCREW, 1/4 x 5/8 long	2
72815	BRACKET, Twist	3
73152	BRACKET, Straight	2
STD-692	SCREW, No. 10	5
STD-425	WASHER, No. 10	5
STD-670	NUT, No. 10	5
LW-M-2375	PLATE, Baffle	2

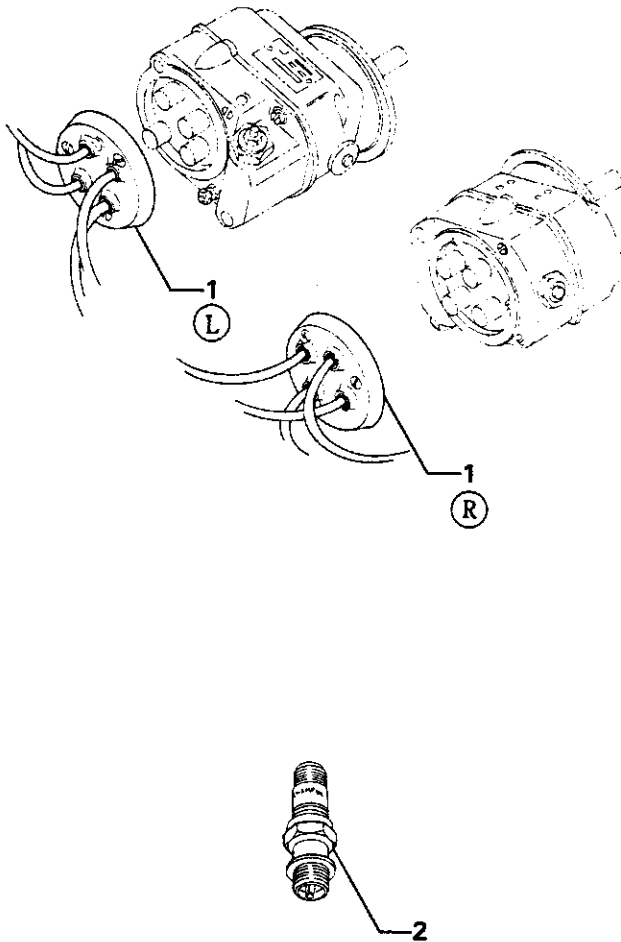


Figure 27. IGNITION HARNESSES, SPARK PLUG AND ATTACHING HARDWARE (AIO-360)

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Williamsport Plant

### ELECTRICAL SYSTEM ALTERNATOR AND GENERATOR MOUNTING BRACKETS

FIG. REF. 30	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360														AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	70419	BRACKET, Generator		2		2		2	2					2	2							
2	74324	BRACKET, Alternator		1	1				1				1								1	
	07A19474	BRACKET, Alternator	1																			
	76906	BRACKET, Alternator			1	1	1		1			1										
3	LW-13365	BRACE, Alternator bracket				1																
4	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1																			
	73383■	LOCKPLATE, 5/16 bolt x 1.00 spacing		2				2						2								
	73383▶	LOCKPLATE, 5/16 bolt x 1.00 spacing		2		2			2					2	2			2	2		2	
5	STD-475●	WASHER, 5/16 lock, internal teeth				1																
6	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. hd.	2																			
	LW-31-0.94●	BOLT, 5/16-18 x 15/16 long, hex. hd.				3																
	LW-31-0.94■	BOLT, 5/16-18 x 15/16 long, hex. hd.		4				4						4								
	LW-31-0.94▶	BOLT, 5/16-18 x 15/16 long, hex. hd.		4	4			4						4	4			4	4		4	
7	76028	LINK, Generator adjusting		1		1		1	1				1				1				1	
8	LW-10729	LINK, Alternator adjusting			1	1	1		1				1									
	74325 *	LINK, Alternator adjusting		1	1			1				1		1							1	
	75380 * *	LINK, Alternator adjusting		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75380 ★	LINK, Alternator adjusting		1	1	1	1	1		1			1	1			1				1	1
9	STD-35	WASHER, 5/16 plain	1																			
10	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. hd.	1																			
	LW-31-0.94●	BOLT, 5/16-18 x 15/16 long, hex. hd.				1																
	LW-31H0.88†	BOLT, 5/16-18 x 7/8 long, hex. hd.				1	1	1		1			1									
11	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick	1																			
12	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. hd.	1																			
13	77718	STRUT, Generator support		1				1						1								
14	76908	STRUT, Alternator support				1	1	1		1			1									
	74323	STRUT, Alternator support	1																			
15	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. hd.	1																			
	LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. hd.				1	1	1		1			1									
16	LW-31S1.16■	BOLT, 5/16-18 x 1-5/32 long, dr. end		1				1						1								
	LW-31S1.16▶	BOLT, 5/16-18 x 1-5/32 long, dr. end		2		2			2					2	2			2	2		2	
17	LW-31S1.28■	BOLT, 5/16-18 x 1-9/32 long, dr. end		1				1						1								
18	STD-35	WASHER, 5/16 plain		AR		AR		AR	AR					AR	AR			AR	AR		AR	
19	STD-1420	NUT, 5/16-18 slotted		2		2		2	2					2	2			2	2		2	
20	STD-68	PIN, Cotter, 1/16 dia. x 1/2 long		2		2		2	2					2	2			2	2		2	
21	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	1																			
22	AN6-14 * *	BOLT, 3/8-24 x 1-37/64, hex. hd., dr. end		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	AN6-17 ★	BOLT, 3/8-24 x 1-61/64, hex. hd., dr. end		1	1	1	1	1		1			1	1			1			1	1	1
	AN6-32 *	BOLT, 3/8-24 x 3-21/64, hex. hd., dr. end		1	1			1				1			1			1			1	
23	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	AR																			
24	STD-872	NUT, 3/8-24 slotted	1																			
25	STD-713	PIN, Cotter, 3/32 dia. x 3/4 long	1																			

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**ELECTRICAL SYSTEM**  
**ALTERNATOR AND GENERATOR MOUNTING BRACKETS (Continued)**

FIG. REF. 30	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360														AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
26	AN6-16	BOLT, 3/8-24 x 1-53/64, hex. hd., dr. end	1																			
27	76534	SHIM, 1-1/8 O.D. x 13/32 I.D. x .005 thick	AR																			
28	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	AR																			
29	STD-872	NUT, 3/8-24 slotted	1																			
30	STD-713	PIN, Cotter, 3/32 dia. x 3/4 long	1																			

- \* Used with P/N 74324 alternator bracket.
- \*\* Used with 12 volt-40 amp. alternators only, P/N 07A19474 alternator bracket and shorter bolt.
- ★ Used with 12 volt-70 amp., 24 volt-50 amp. or 24 volt-70 amp. alternators and P/N 07A19474 alternator bracket.
- Used with P/N 76906 alternator bracket and P/N LW-13365 brace.
- ‡ Used with P/N 76906 alternator bracket; no brace.
- Used with 24 volt-40 amp. and 24 volt-50 amp. generators, P/N 77718 strut and P/N 70419 generator bracket.
- ▶ Used with generators except 24 volt-40 & 50 amp. and P/N 70419 generator bracket.

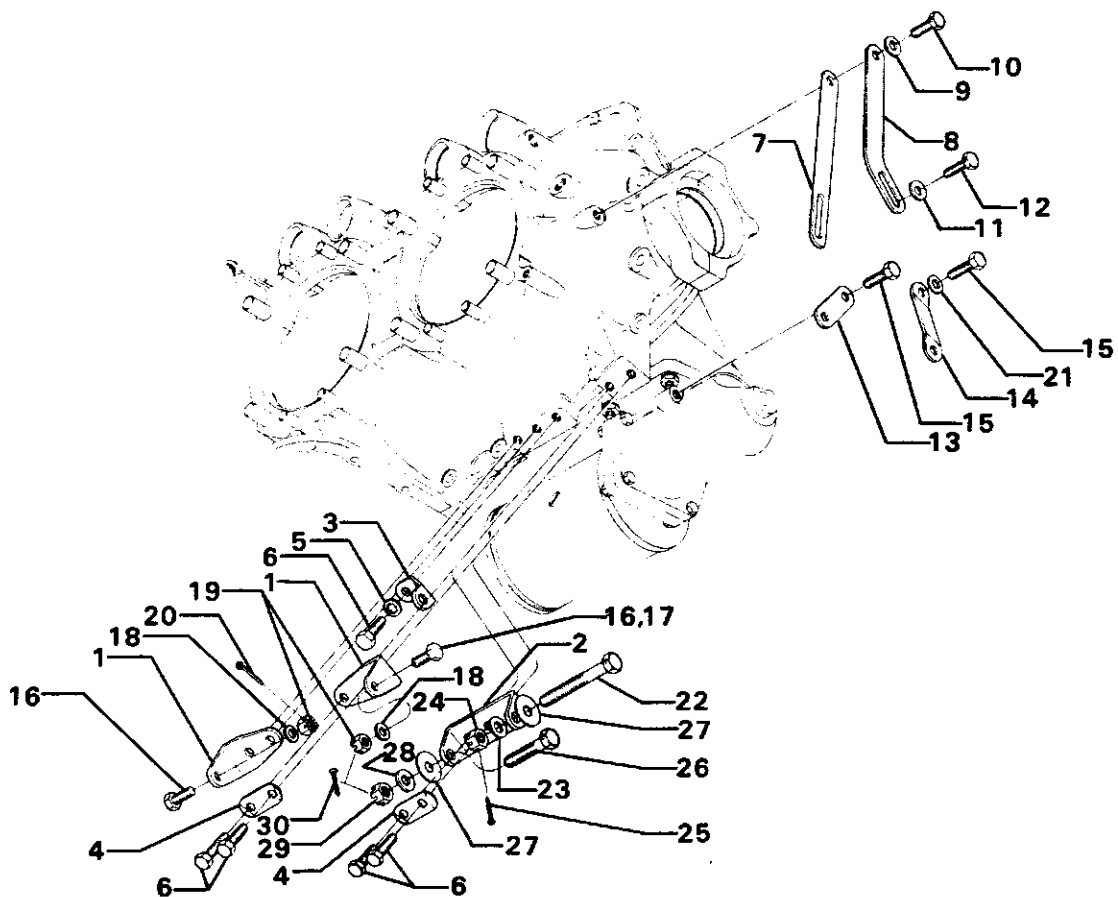
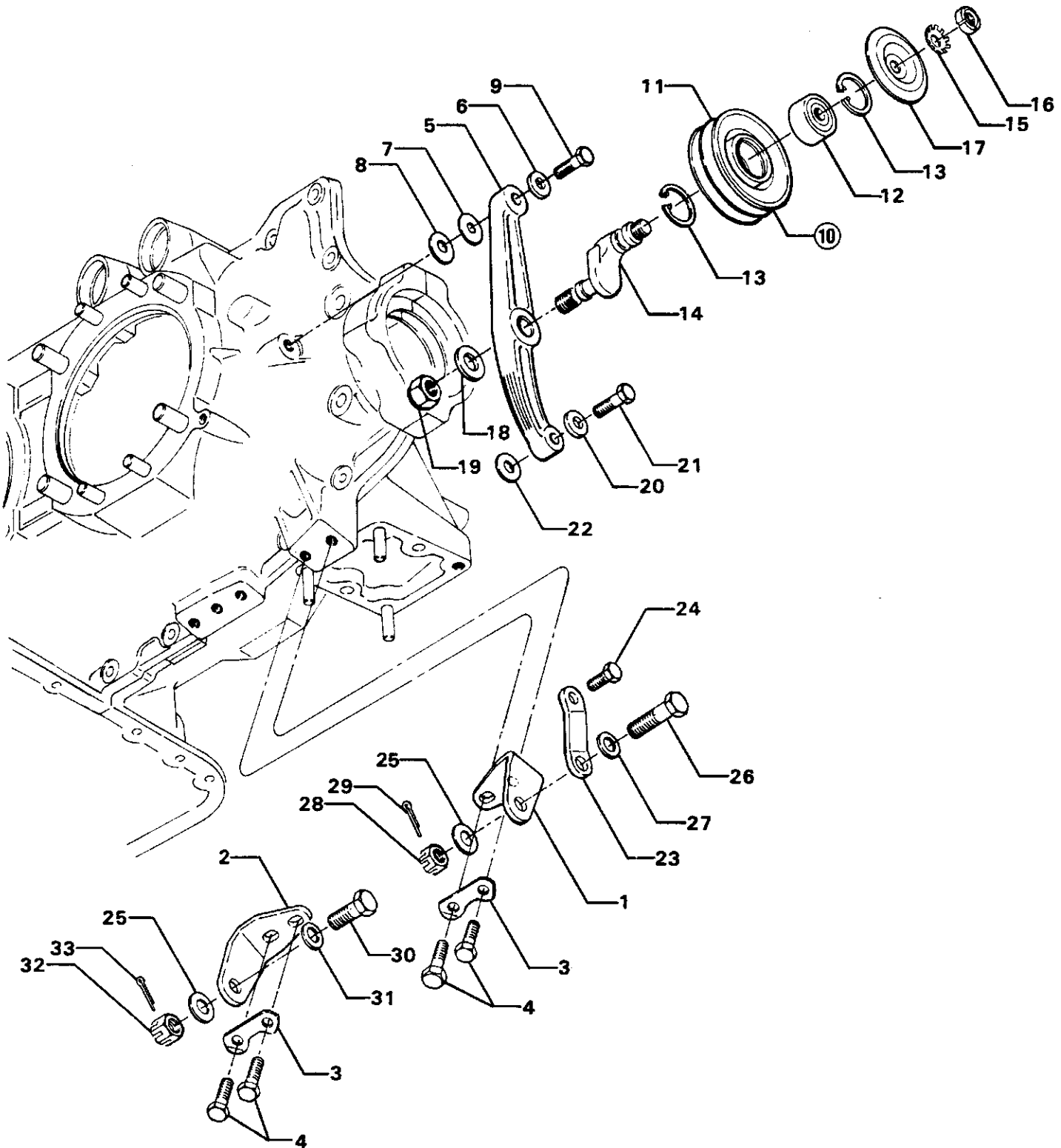


Figure 30. ALTERNATOR AND GENERATOR MOUNTING BRACKETS





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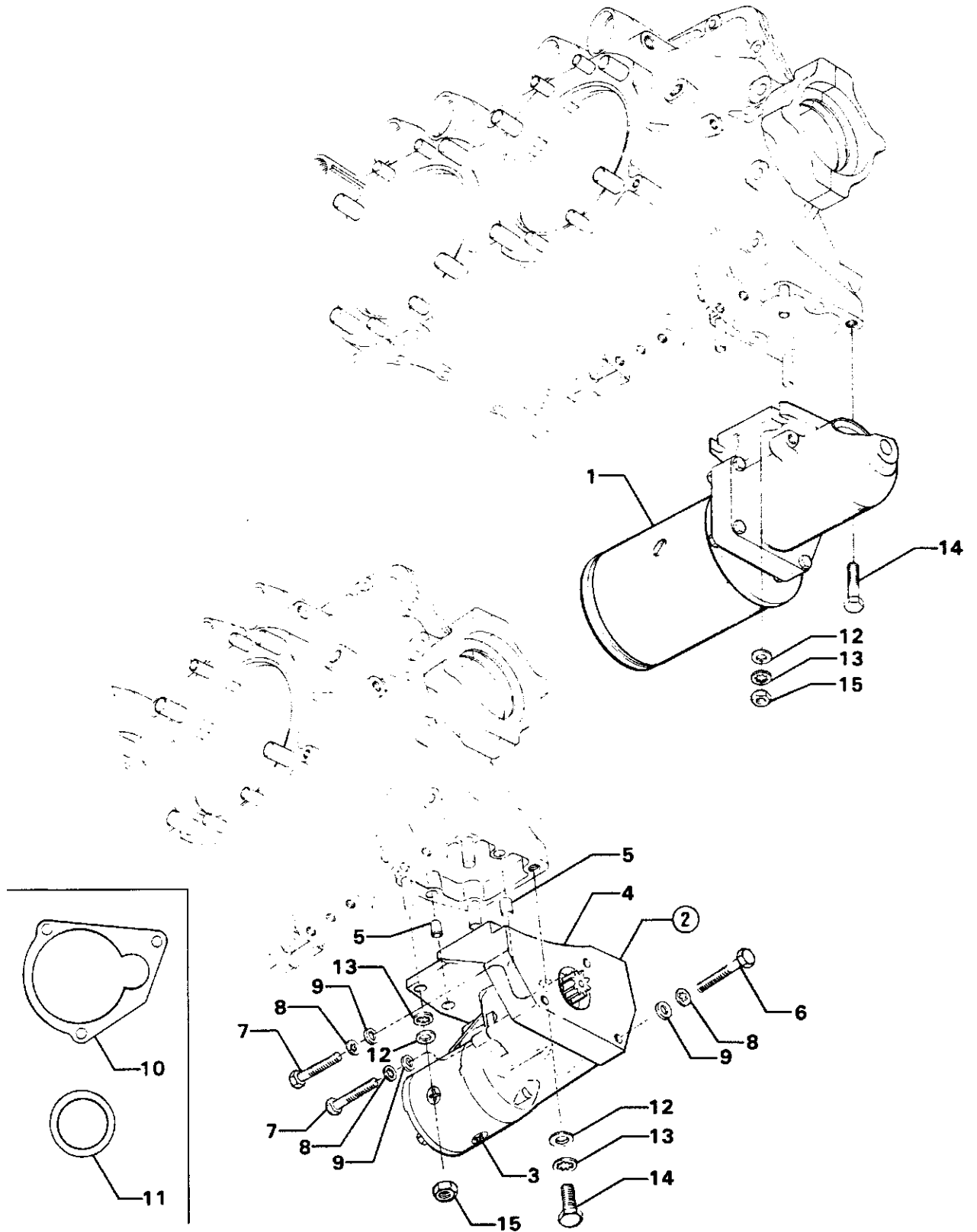
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**Figure 31. 100 AMP ALTERNATOR MOUNTING AND ATTACHING PARTS**









3301

**Figure 33. STARTER MOTOR AND ATTACHING PARTS**

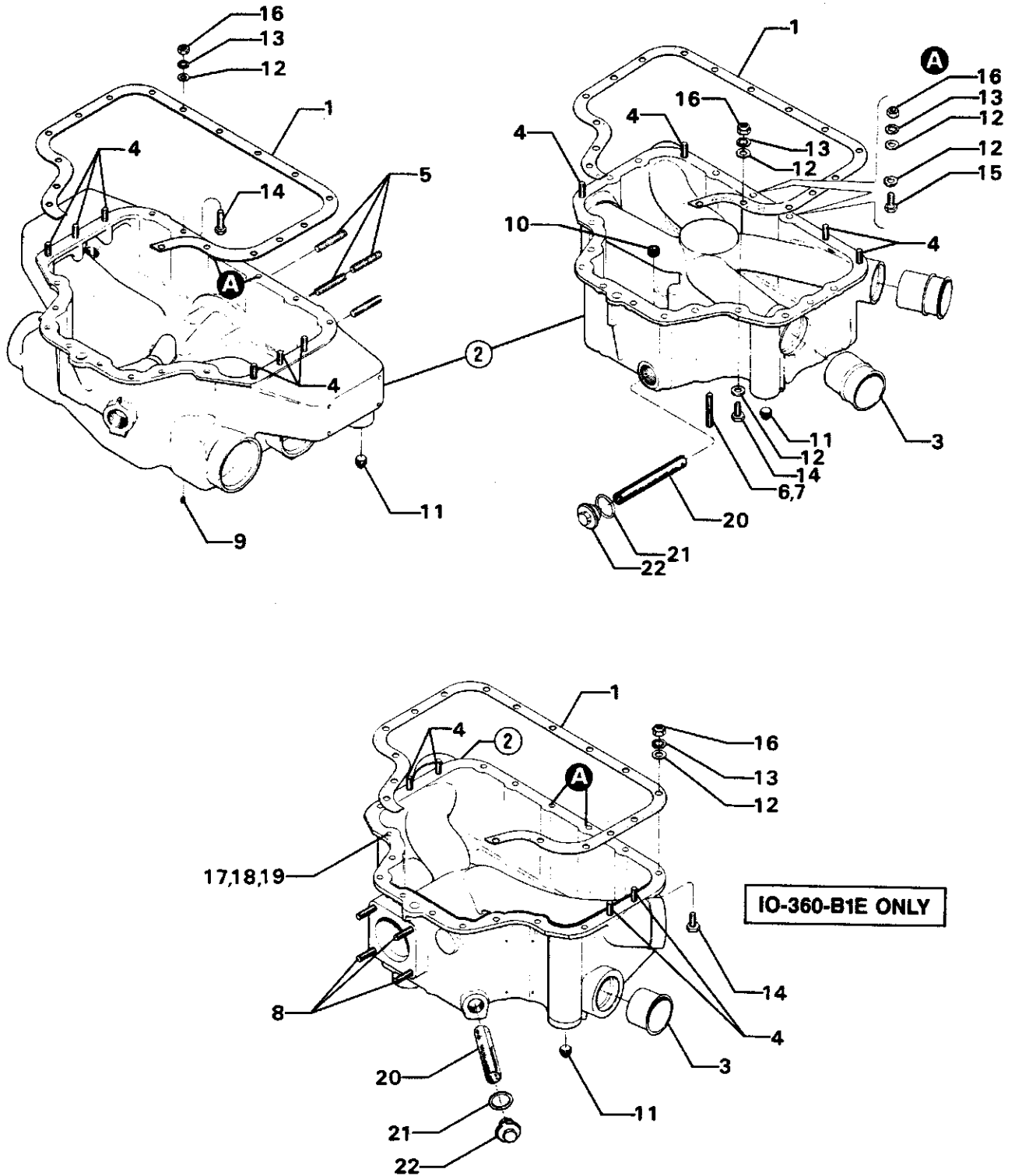
Williamsport Plant

### OIL SUMP AND INDUCTION SYSTEM OIL SUMP ASSEMBLY AND OIL SUCTION SCREEN

FIG. REF. 34	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360													AIO-360						
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	LW-13353	GASKET, Oil sump		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
2	74384	SUMP ASSY., Oil		1	1	1	1	1	1	1	1	1	1										
	78778*	SUMP ASSY., Oil																					
	LW-10826	SUMP ASSY., Oil												1	1								
	LW-13864*	SUMP ASSY., Oil																					
	LW-14290**	SUMP ASSY., Oil																					
3	69602	CONNECTION, Intake pipe																					
	78914	CONNECTION, Intake pipe																					
4	61400	STUD, 1/4-20 x 1-3/16 long																					
	61400	STUD, 1/4-20 x 1-3/16 long		6	6	6	6	6	6	6	6	6	6	6									
5	31C-14	STUD, 5/16-18 x 1-3/4 long		4	4	4	4	4	4	4	4	4	4										
6	31C-17	STUD, 5/16-18 x 2-1/8 long																					
	31C-17**	STUD, 5/16-18 x 2-1/8 long																					
7	31C-15**	STUD, 5/16-18 x 1-7/8 long																					
8	31C-25	STUD, 5/16-18 x 3-1/8 long																					
9	1102	PLUG, 1/8-27 NPT, Allen hd.		1	1	1	1	1	1	1	1	1	1										
10	STD-91	PLUG, 1/2-14 NPT, Sq. hd., drilled																					
11	STD-551**	PLUG, 1/2-14 NPT, Sq. hd., drilled																					
	STD-551	PLUG, 1/2-14 NPT, Sq. hd., drilled		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	STD-551*	PLUG, 1/2-14 NPT, Sq. hd., drilled																					
12	STD-8	WASHER, 1/4 plain		26	26	26	26	26	26	26	26	26	26										
	STD-8*	WASHER, 1/4 plain																					
	STD-8	WASHER, 1/4 plain																					
13	STD-160*	WASHER, 1/4 lock, internal teeth																					
	STD-160	WASHER, 1/4 lock, internal teeth		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
14	LW-25-0.94*	BOLT, 1/4-20 x 15/16 long, hex. hd.																					
	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.		12	12	12	12	12	12	12	12	12	12	12									
	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																					
15	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	STD-1411	NUT, 1/4-20 plain		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	STD-1411*	NUT, 1/4-20 plain																					
17	STD-8*	WASHER, 1/4 plain																					
18	LW-25-1.25*	BOLT, 1/4-20 x 1-1/4 long, hex. hd.																					
19	AN365-420C*	NUT, 1/4-20 self-locking																					
20	70484	SCREEN, Oil suction		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	06E19769-1.00	GASKET, 1.00 I.D. x 1-1/4 O.D. x 3/32 annular		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

- \* This sump to be used in conjunction with Christen Kit when converting to aerobic configuration. Reference the latest edition of Textron Lycoming SSP-291 for aerobic components.
- \*\* This sump has fuel injector mounted on two short studs in down position.
- \* This sump has horizontal rear mounted fuel injector.

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**Figure 34. OIL SUMP ASSEMBLY AND OIL SUCTION SCREEN**



Williamsport Plant

**OIL SUMP AND INDUCTION SYSTEM**  
 CRANKCASE COVERS AND INDUCTION HOUSING (AIO-360)

FIG. REF. 35	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				IO-360														AIO-360						
				A1A	A1B	A1B6	A1B6D	A1C	A1D	A1D6	A2A	A2B	A3B6D	B1B	B1D	B1E	B1F	B2F	B2F6	B4A	A1A	A1B	B1B	
1	77055	GASKET, Crankcase cover, upper																			1	1	1	
2	77126	CRANKCASE COVER ASSY., Upper																				1	1	1
3	STD-8	WASHER, 1/4 plain																				12	12	12
4	STD-160	WASHER, 1/4 lock, internal teeth																				12	12	12
5	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																				10	10	10
6	STD-1411	NUT, 1/4-20 plain																				2	2	2
7	MS29512-10	SEAL, Oil, 3/32 dia. section x 3/4 I.D.																				1	1	1
8	AN815-10	UNION, 5/8 dia. flared tube																				1	1	1
9	MS29512-12	SEAL, Oil, 7/64 dia. section x 59/64 I.D.																				1	1	1
10	AN924-12D	NUT, Flared tube, bulkhead fitting																				1	1	1
11	AN838-12D	ELBOW, 3/4 dia. hose, bulkhead, 90°																				1	1	1
12	77056	GASKET, Crankcase cover, lower																				1	1	1
13	77132	CRANKCASE COVER ASSY., Lower																				1	1	1
14	77155	FITTING, 5/8 adjustable, 90°																				1	1	1
15	STD-1164	INSERT, 5/16-18 Helicoil x 5/8 long																				4	4	4
16	STD-1353	INSERT, No. 10-24 Helicoil x 3/8 long																				4	4	4
17	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.																				2	2	2
18	STD-8	WASHER, 1/4 plain																				20	20	20
19	STD-160	WASHER, 1/4 lock, internal teeth																				16	16	16
20	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																				12	12	12
21	STD-1411	NUT, 1/4-20 plain																				4	4	4
22	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.																				2	2	2
23	77117	SPACER, Induction housing																				4	4	4
24	77127	HOUSING ASSY., Induction																				1	1	1
25	31C-14	STUD, 5/16-18 x 1-3/4 long																				4	4	4
26	1102	PLUG, 1/8-27 pipe, Allen hd.																				4	4	4
27	STD-35	WASHER, 5/16 plain																				4	4	4
28	STD-475	WASHER, 5/16 lock, internal teeth																				4	4	4
29	LW-31-4.13	BOLT, 5/16-18 x 4-1/8 long, hex. hd.																				4	4	4
30	70484	SCREEN, Oil suction																				2	2	2
31	06E19769-1.00	GASKET, 1.00 I.D. x 1-1/4 O.D. x 3/32 annular																				2	2	2
32	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.																				2	2	2

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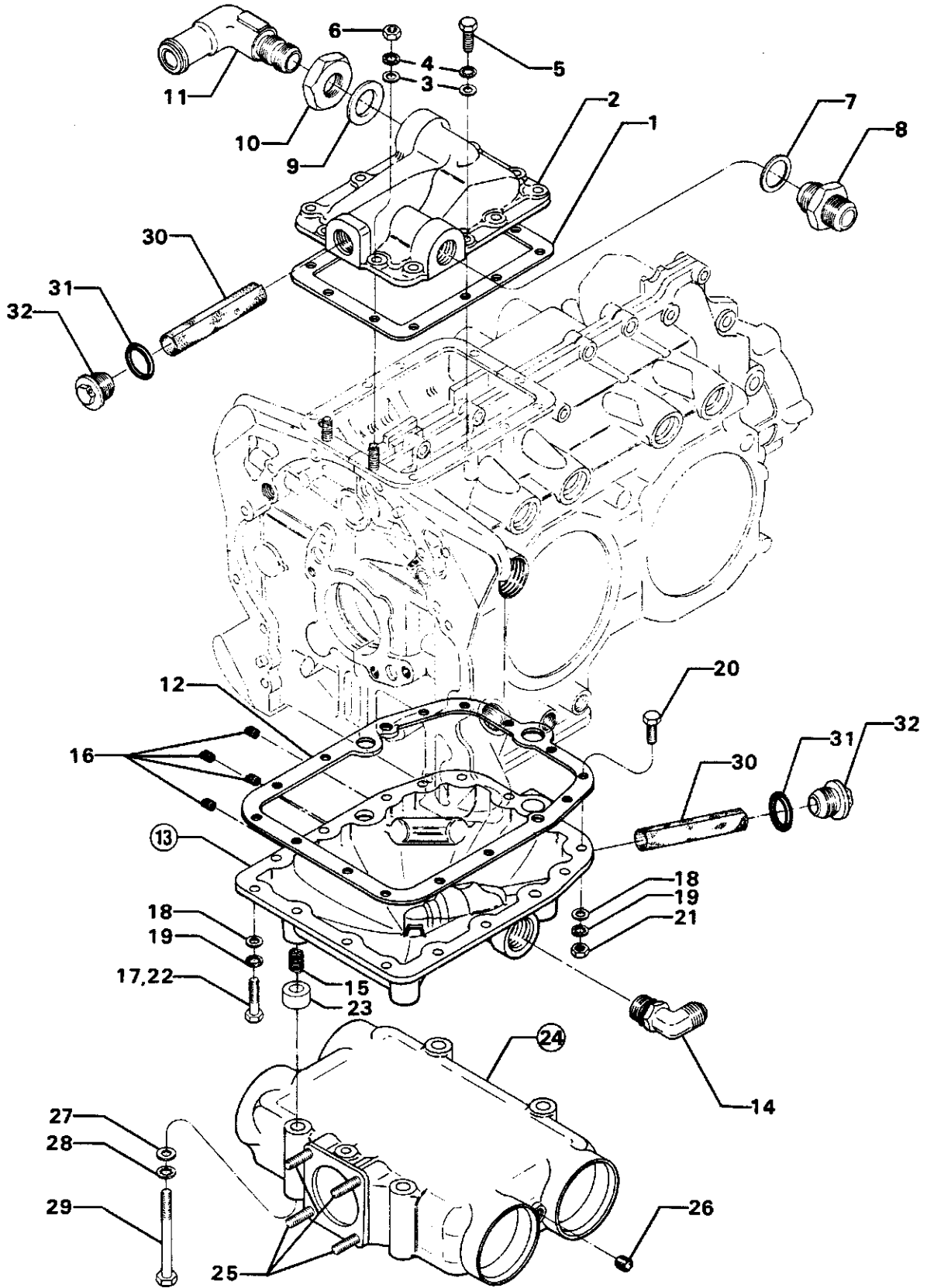


Figure 35. CRANKCASE COVERS AND INDUCTION HOUSING (AIO-360)

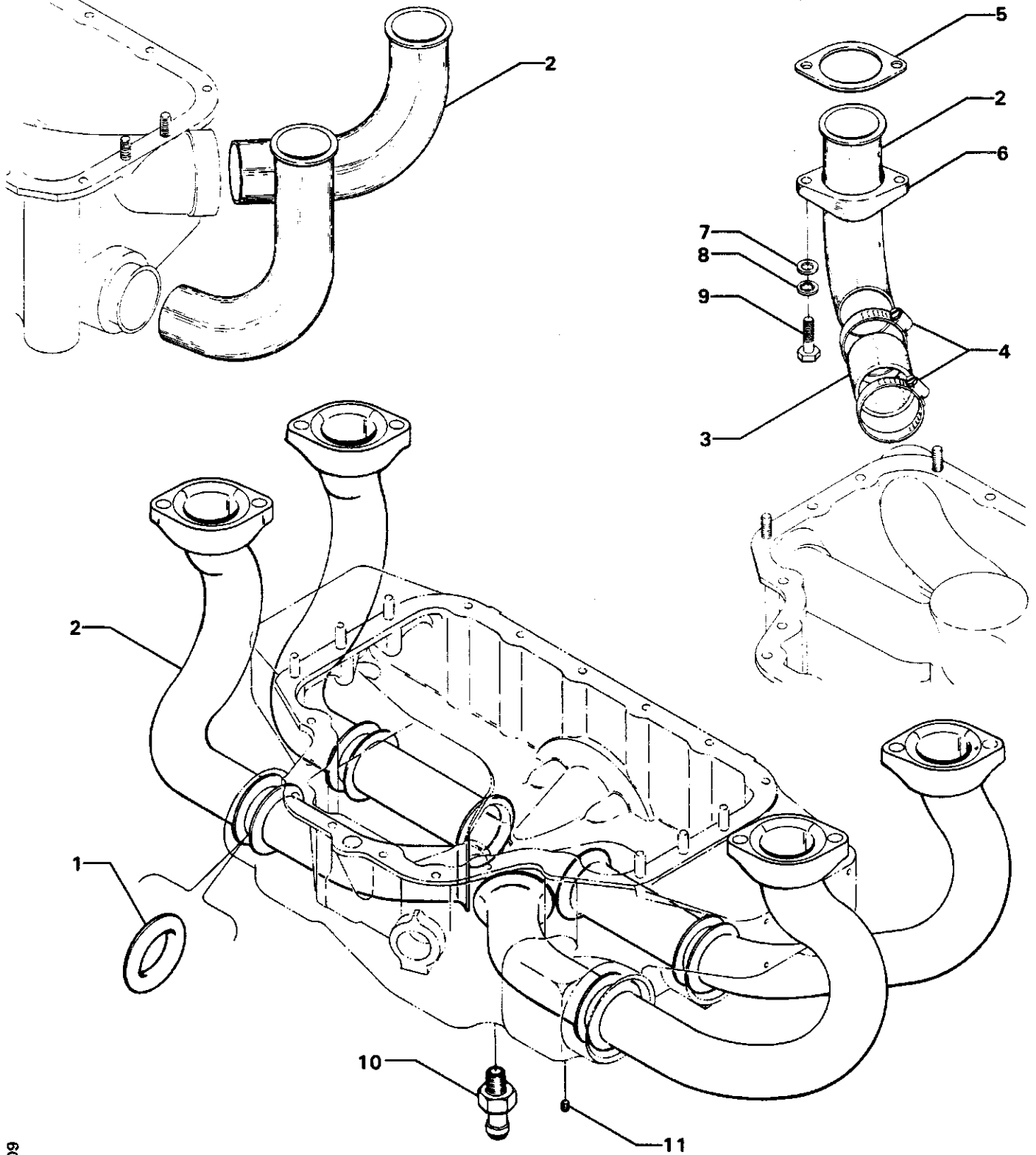
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**OIL SUMP AND INDUCTION SYSTEM**  
**INTAKE PIPES**

FIG. REF. 36	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				IO-360														AIO-360						
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B	
1	77569	SEAL, Intake pipe		4	4	4	4	4	4	4	4	4	4	4							4	4	4	
2	70485	PIPE, Intake, all cylinders													4	4			4	4	4	4		
	71712	PIPE, Intake, cylinders no. 1 & 2																		2				
	71713	PIPE, Intake, cylinders no. 3 & 4																		2				
	78741	PIPE, Intake, cylinder no. 1		1	1	1	1	1	1	1	1	1	1	1										
	78742	PIPE, Intake, cylinder no. 2		1	1	1	1	1	1	1	1	1	1	1										
	78743	PIPE, Intake, cylinder no. 3		1	1	1	1	1	1	1	1	1	1	1										
	78744	PIPE, Intake, cylinder no. 4		1	1	1	1	1	1	1	1	1	1	1										
	78621	PIPE, Intake, cylinder no. 1																			1	1	1	
	78622	PIPE, Intake, cylinder no. 2																			1	1	1	
	78623	PIPE, Intake, cylinder no. 3																			1	1	1	
	78624	PIPE, Intake, cylinder no. 4																			1	1	1	
	LW-10481	PIPE, Intake, cylinder no. 1											1											
	79002	PIPE, Intake, cylinder no. 2											1											
	LW-10483	PIPE, Intake, cylinder no. 3											1											
	LW-10484	PIPE, Intake, cylinder no. 4											1											
3	69603	HOSE, 1-3/4 I.D. x 2-3/16 O.D. x 1-3/4 long													4	4	4	4	4	4	4	4		
4	LW-15592-8-28	CLAMP, Hose													8	8	8	8	8	8	8	8		
5	71973	GASKET, 2 bolt flange, 1-7/8 I.D.	4																					
6	73346	FLANGE, Intake pipe, upper													4	4	4	4	4	4	4	4		
7	STD-8	WASHER, 1/4 plain	8																					
8	STD-160	WASHER, 1/4 lock, internal teeth	8																					
9	LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	8																					
10	74139	ADAPTER ASSY., Fuel drain valve																		2				
	75444	ADAPTER ASSY., Fuel drain valve				1				1												1	1	1
11	1102 *	PLUG, 1/8-27 NPT, Allen hd.																		2				
	1102 *	PLUG, 1/8-27 NPT, Allen hd.										4												

\* Assemble in fuel drain bosses in sump.



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Figure 36. INTAKE PIPES

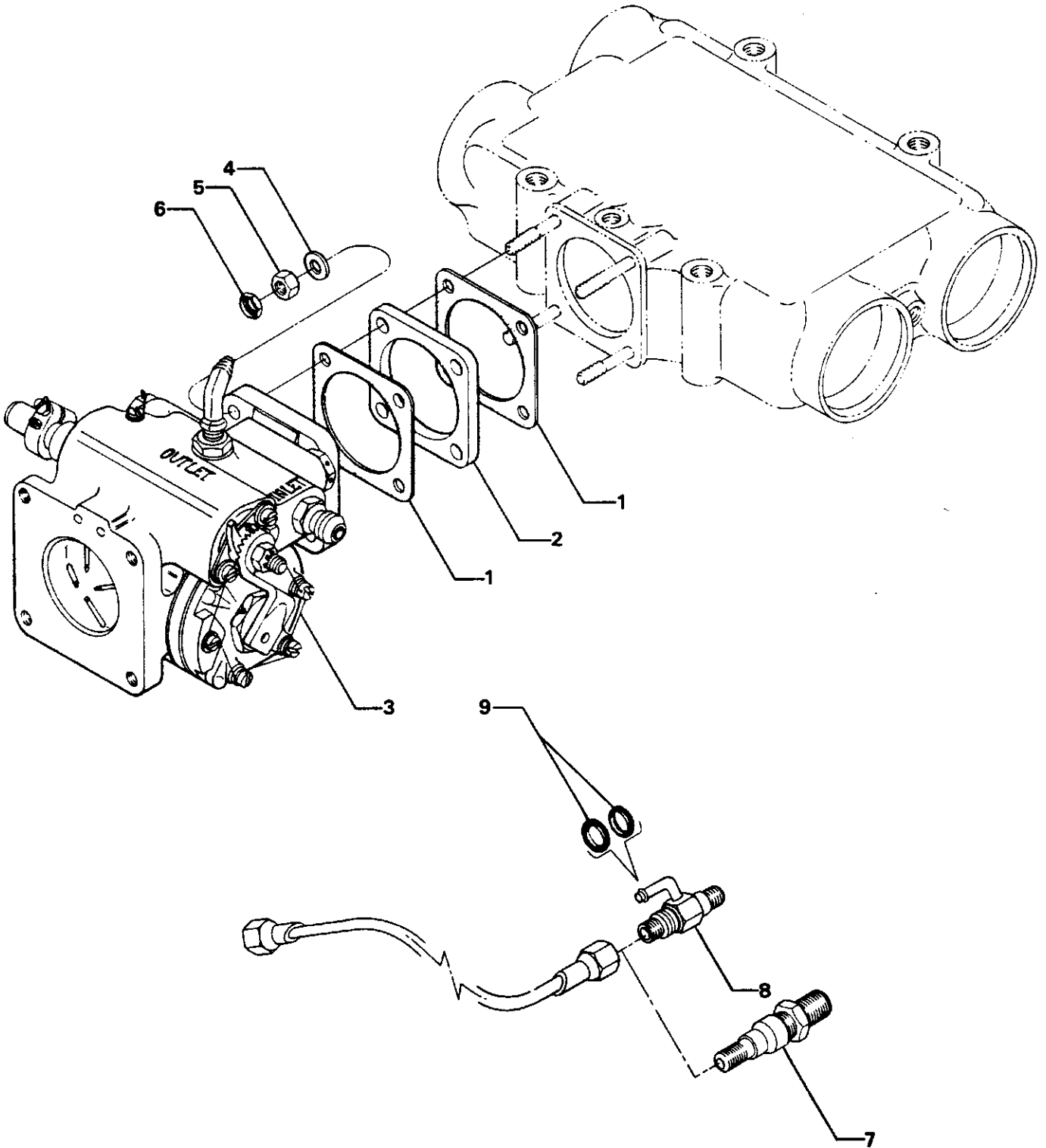
Williamsport Plant

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

FIG. REF. 37	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				IO-360												AIO-360								
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B	
1	66224	GASKET, Fuel injector		1	1	1	1	1	1	1	1	1	1	1								1	1	1
	66224	GASKET, Fuel injector													2	2	2	2	2	2	2			
2	73161	SPACER, Fuel injector													1	1		1	1	1	1			
	74842	SPACER, Fuel injector															1							
3	73937	FUEL INJECTOR (2524054-11)		1	1	1	1	1	1	1	1	1	1	1										1
	74556	FUEL INJECTOR (2524147-13)													1			1	1	1	1			
	76504	FUEL INJECTOR (2524297-10)															1							
	76817	FUEL INJECTOR (2524291-11)														1		1	1					
	77752	FUEL INJECTOR (2524341-10)																				1	1	
	LW-11848	FUEL INJECTOR (2524550-8)			1	1			1		1	1												
	LW-14382 *	FUEL INJECTOR (2524682-8)																		1				
4	STD-35	WASHER, 5/16 plain	4																					
5	STD-1410	NUT, 5/16-18 plain	4																					
6	STD-1763	LOCKNUT, 5/16 palnut	4																					
7	LW-18265	NOZZLE, Injection	4																					
8	LW-18854 * *	NOZZLE ASSY., Manifold air bleed				4								4										
9	951391	"O" RING, (Bendix)				8								8										

\* Used with P/N LW-14576 manifold assembly.  
 \*\* Vented nozzles.

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**Figure 37. FUEL INJECTORS AND INJECTION NOZZLES**

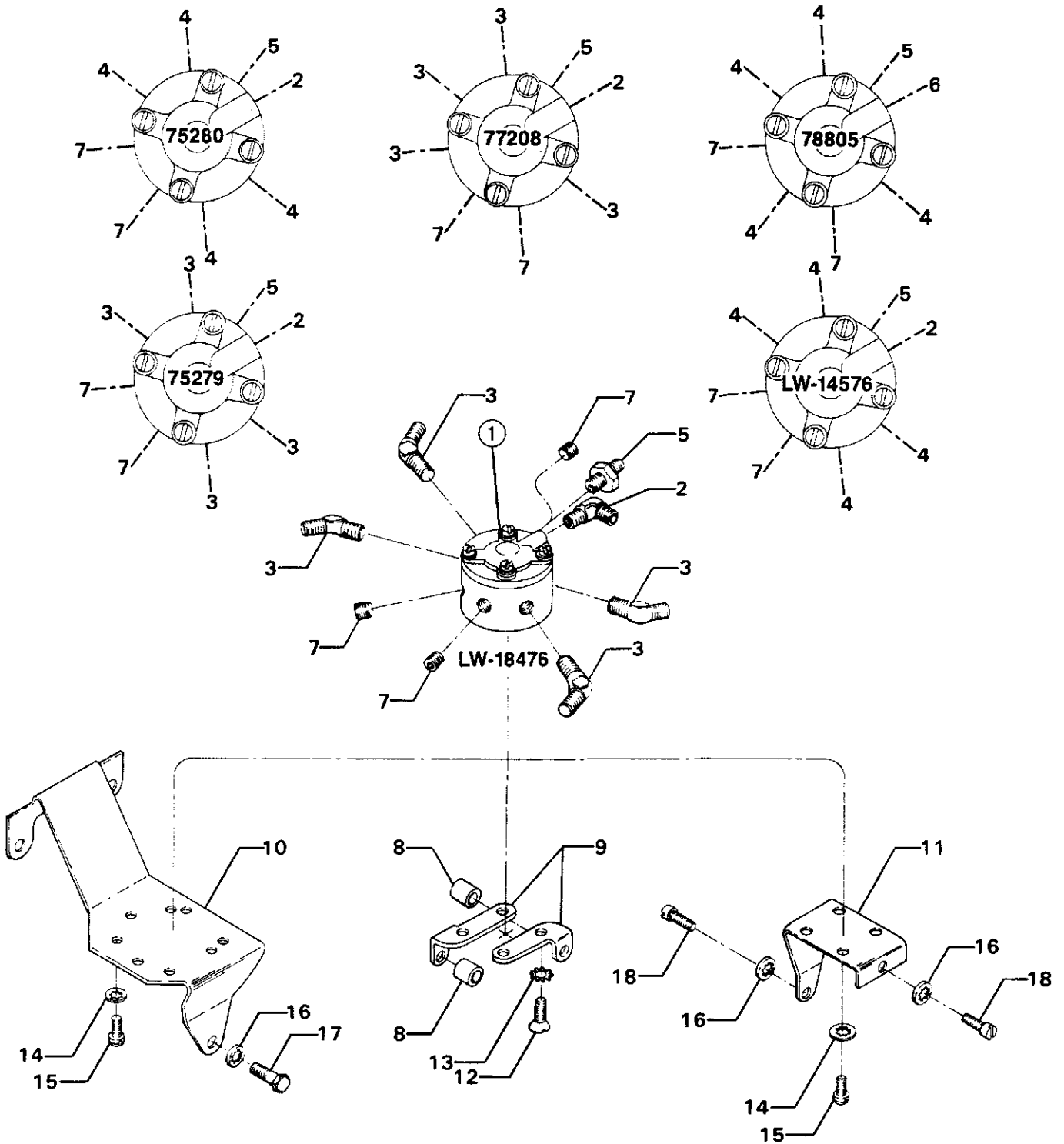
Williamsport Plant

### OIL SUMP AND INDUCTION SYSTEM FUEL MANIFOLDS AND BRACKETS

FIG. REF. 38	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		
				IO-360														AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B
1	75279	MANIFOLD ASSY., Fuel		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	75279 *	MANIFOLD ASSY., Fuel																				
	75280	MANIFOLD ASSY., Fuel																				
	77208	MANIFOLD ASSY., Fuel																				
	78805	MANIFOLD ASSY., Fuel																				
	LW-14576	MANIFOLD ASSY., Fuel																				
	LW-18476 **	MANIFOLD ASSY., Fuel																				
2	MS20822-4	ELBOW, 1/4 tube, 1/8 NPT, 90°		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MS20822-4 *	ELBOW, 1/4 tube, 1/8 NPT, 90°																				
3	AN791-2	ELBOW, Union, 1/8 tube, 45°		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	AN791-2 *	ELBOW, Union, 1/8 tube, 45°																				
4	STD-148	NIPPLE, Union, 1/8 NPT																				
5	75447	NIPPLE, 3/16 tube to 1/8 NPT (rest.)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75447 *	NIPPLE, 3/16 tube to 1/8 NPT (rest.)																				
6	AN816-4	NIPPLE, 1/4 tube, 1/8 NPT																				
7	AN932-2	PLUG, 1/8-27 NPT, Allen		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	AN932-2 **	PLUG, 1/8-27 NPT, Allen																				
	AN932-2 *	PLUG, 1/8-27 NPT, Allen																				
	1102	PLUG, 1/8-27 NPT, Allen (alternate)		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1102 **	PLUG, 1/8-27 NPT, Allen (alternate)																				
	1102 *	PLUG, 1/8-27 NPT, Allen (alternate)																				
8	73966	SPACER, Fuel manifold bracket																				
9	74597	BRACKET, Fuel manifold																				
	74598	BRACKET, Fuel manifold																				
10	75009 *	BRACKET, Fuel manifold		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75009 *	BRACKET, Fuel manifold																				
	77547 ●	BRACKET, Fuel manifold																				
11	78714	BRACKET, Fuel manifold																				
12	STD-1907	SCREW, No. 10-24 x 9/16 long, flat hd.																				
13	STD-1908	WASHER, No. 10 lock, ext. teeth, 82°																				
14	STD-251	WASHER, No. 10 lock, internal teeth		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	STD-251 *	WASHER, No. 10 lock, internal teeth																				
15	STD-82	SCREW, No. 10-24 x 1/2 long, rd. hd.		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	STD-82 *	SCREW, No. 10-24 x 1/2 long, rd. hd.																				
16	STD-160	WASHER, 1/4 lock, internal teeth		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	STD-160 †	WASHER, 1/4 lock, internal teeth																				
	STD-160 *	WASHER, 1/4 lock, internal teeth																				
17	LW-25-0.50	BOLT, 1/4-20 x 1/2 long, hex. hd.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LW-25-0.50 *	BOLT, 1/4-20 x 1/2 long, hex. hd.																				
18	AN500A416-10 †	SCREW, 1/4-20 x 5/8 long, fill. hd.																				

- \* Flow divider mounted on right side of engine between no. 1 and no. 3 cylinders.
- \*\* This manifold assembly uses an extra 1/8-27 NPT Allen plug for a quantity of (3) three in place of a P/N 75447 nipple per customer request.
- ★ Assemble between no. 1 and no. 3 cylinders.
- Assemble between no. 2 and no. 4 cylinders.
- † Used with P/N 78714 fuel manifold bracket.

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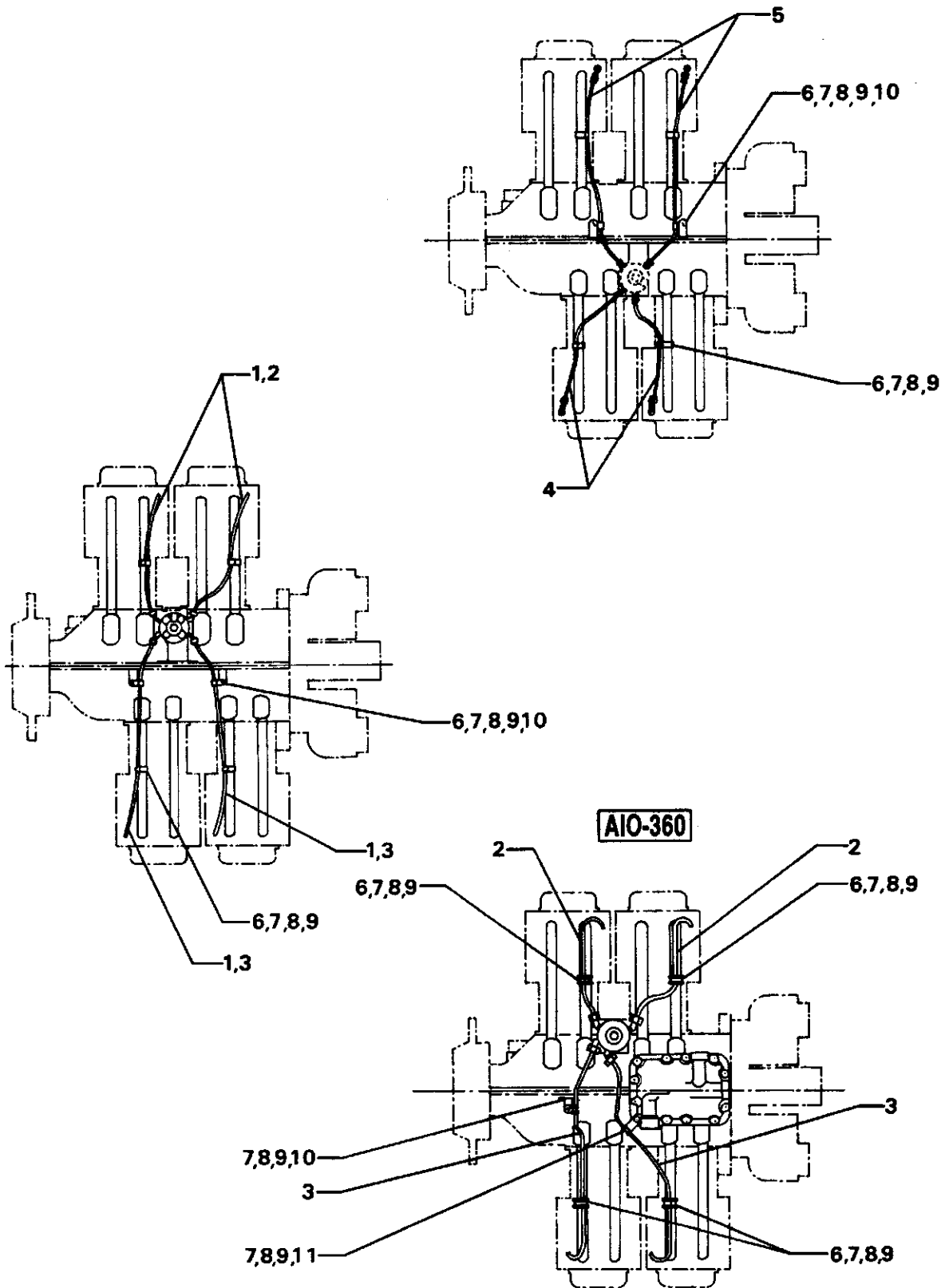
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Figure 38. FUEL MANIFOLDS AND BRACKETS





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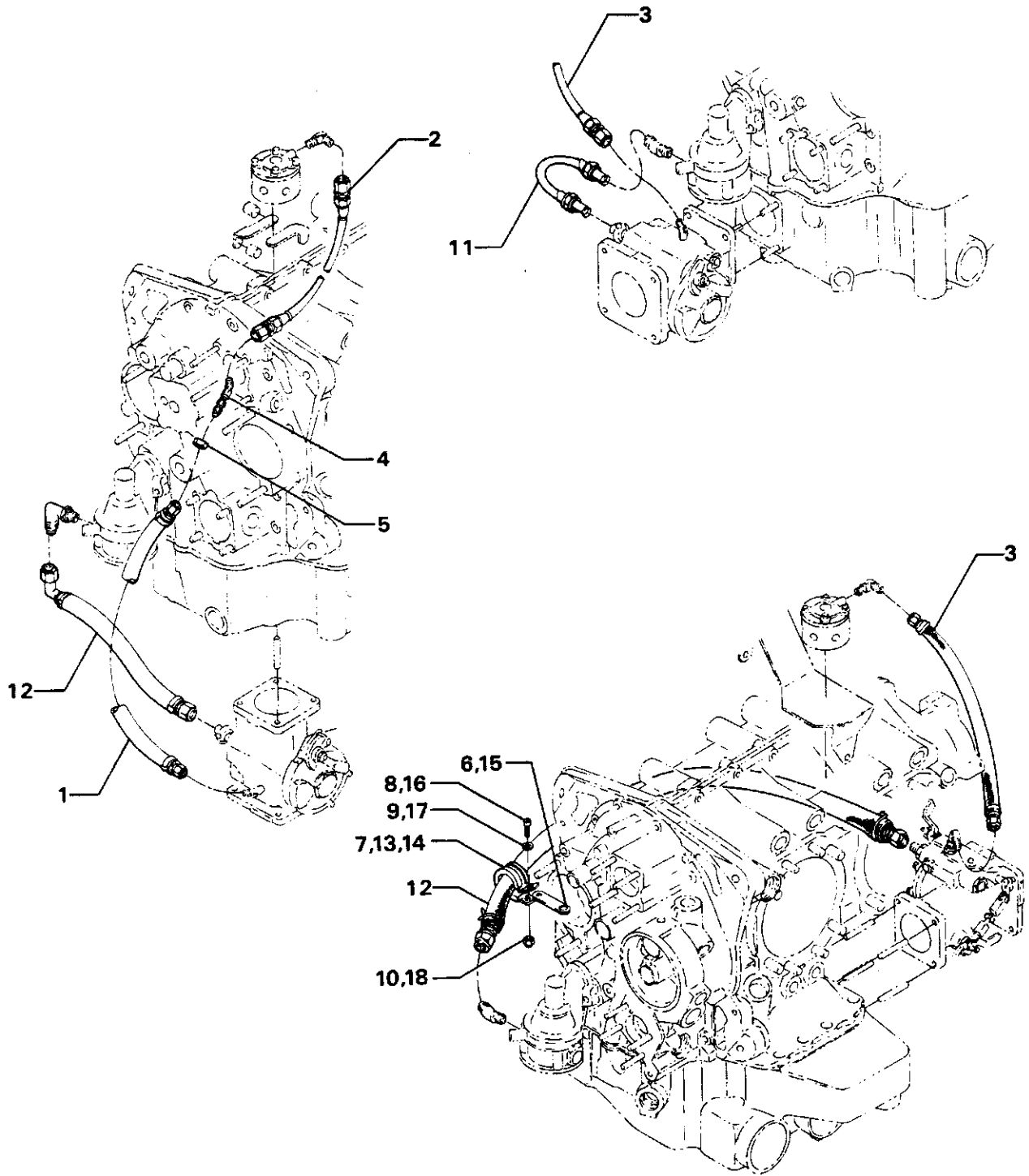


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Figure 39. FUEL LINES AND ATTACHING PARTS



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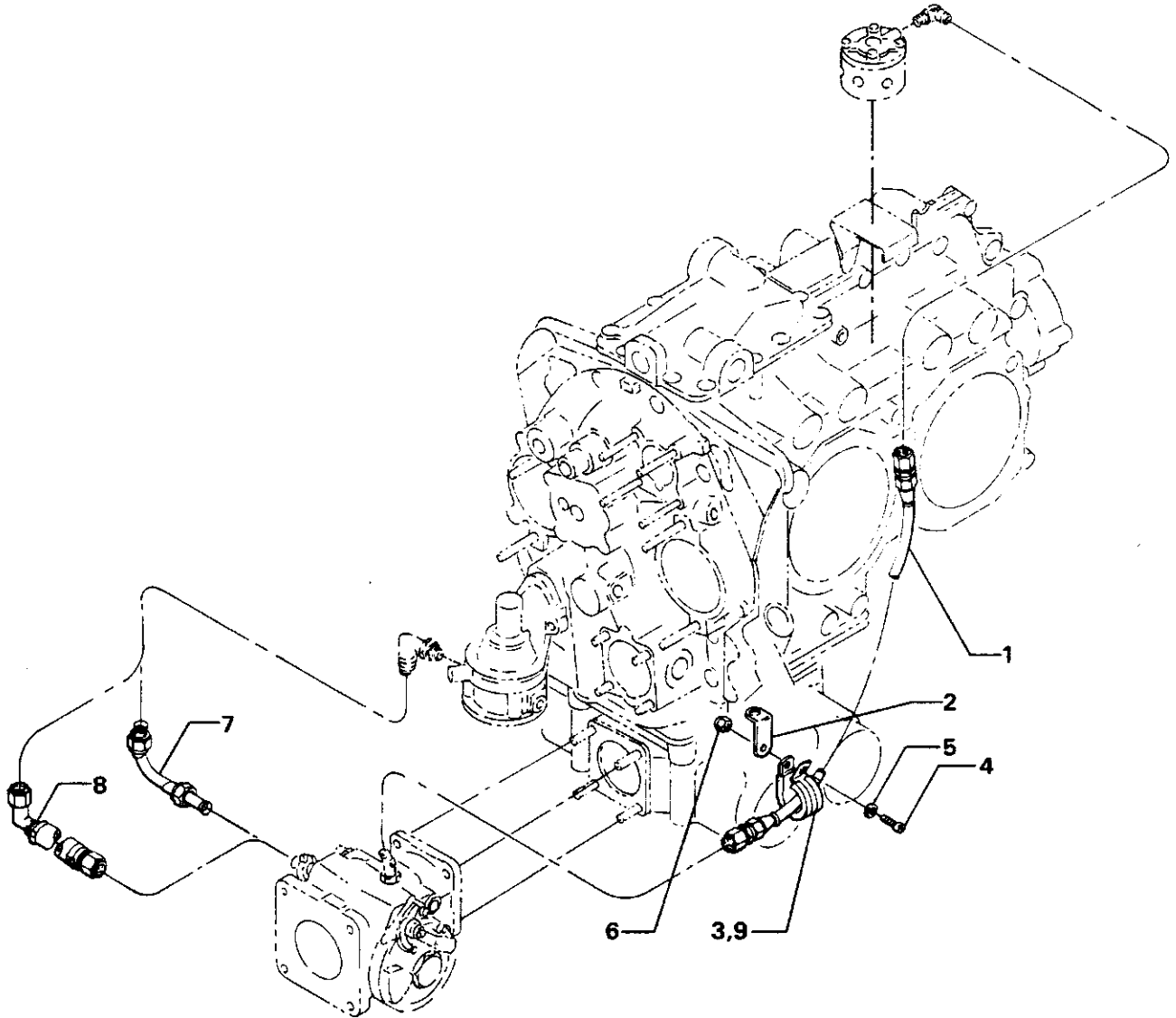


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**Figure 40. FUEL HOSES AND ATTACHING PARTS (IO-360)**



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**Figure 41. FUEL HOSES AND ATTACHING PARTS (AIO-360)**

Williamsport Plant

**SERVICE KIT SECTION****SEAL AND GASKET SET**IO-360-A, -B Series

Part No.	Part Name	Qty.
75441-1	SEAL AND GASKET SET	1
AN901-8A	GASKET	1
06E19769-1.00	GASKET, Annular	1
STD-2217	SEAL, Oil	1
STD-213	SEAL, Oil	1
06E19769-0.63	GASKET, Annular	1
06E19769-1.25	GASKET, Annular	1
1691-C	GASKET, Fuel pump	2
8313	GASKET, Vacuum pump	1
60096	GASKET	1
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-14260	SEAL, Tachometer drive	1
61173	GASKET, Oil pressure housing	1
61183	GASKET, Accessory adapter	1
62224	GASKET, Magneto	3
LW-18661	SEAL, Shroud tube	16
66224	GASKET, Carburetor	3
66732	GASKET, Valve rocker shaft cover	8
67193	GASKET, Rocker box cover	4
68129	GASKET	1
68315	GASKET, Accessory drive adapter	1
LW-13353	GASKET, Oil sump	1
69164	GASKET, Fuel pump adapter	1
69551	GASKET, Accessory drive adapter	1
71481	SEAL, Cylinder base	4
71973	GASKET	4
72053	GASKET, Governor	1
72075	SEAL, Oil	6
72078	LOCKPLATE, Camshaft gear	2
72091	RING, Oil seal	2
73032	GASKET, Injector elbow	1
73383	LOCKPLATE	2
75118	GASKET, Exhaust flange	8
73817	LOCKPLATE, Crankshaft idler gear shaft	2
73818	GASKET, Accessory housing	1
74068	RING, Oil level gage seal	1
74712	RING, Oil seal	4
76510	GASKET	1
LW-12795	GASKET	1
76940	SEAL, Crankshaft oil	1
77569	RING, Oil seal	4
LW-12681	GASKET	2
LW-13792	SEAL, Crankshaft oil	1
72059	GASKET	1
70455	GASKET	1
75906	GASKET	4
74065	RING, Oil level gage	1
72829	LOCKPLATE	1

Williamsport Plant

**SERVICE KIT SECTION**

**SEAL AND GASKET SET**

AIO-360-A, -B Series

Part No.	Part Name	Qty.
LW-10964	SEAL AND GASKET SET	1
AN901-8A	GASKET	1
LW-12272	LOCKPLATE	4
LW-12681	GASKET, Magneto	2
LW-12795	GASKET	1
LW-13353	GASKET	1
LW-13792	SEAL, Crankshaft oil	1
LW-14260	SEAL, Tachometer drive	1
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-18661	SEAL, Shroud tube	16
MS16625-1081	RING	1
MS29512-10	SEAL, Oil, 3/32 dia. sect. x 3/4 I.D.	1
MS29512-12	SEAL, Oil, 7/64 dia. sect. x 59/64 I.D.	2
06E19769-1.00	GASKET, 1.00 I.D. x 1-1/4 O.D. x 3/32 annular	2
06E19769-0.63	GASKET, 7/8 O.D. x 5/8 I.D. x 3/32 annular	2
06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1
STD-1221	RING	1
STD-2013	RING, Oil seal	2
8313	GASKET, Vacuum pump	1
60096	GASKET, Fuel pump	1
61173	GASKET, Oil pressure housing	1
61183	GASKET, Accessory adapter	1
61503	SLEEVE, Shroud tube seal	8
62224	GASKET, Magneto adapter	1
LW-19296	GASKET	4
66224	GASKET, Fuel injector	1
66732	GASKET, Valve rocker shaft cover	8
67193	GASKET, Rocker box cover	4
68315	GASKET, Accessory drive adapter	1
69551	GASKET	1
70310	SEAL	8
70455	GASKET, 25/32 I.D. x 1-1/8 O.D. x 1/16 thick	1
LW-14995	SPRING, Shroud tube	4
71481	RING, Oil seal	4
71973	GASKET, 2 bolt flange, 1-7/8 I.D.	4
72053	GASKET, Governor	1
72059	GASKET	1
72075	SEAL, Oil	4
72091	RING, Oil seal	2
73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1
73818	GASKET, Accessory housing	1
74065	"O" RING	1
74068	"O" RING	1
74712	RING, Seal, 2-1/8 O.D. x 1/8 section	4
75118	GASKET, Exhaust flange	8
75906	GASKET	4
77055	GASKET, Crankcase cover, upper	1
77056	GASKET, Crankcase cover, lower	1
77569	SEAL	1



Williamsport Plant

**SERVICE KIT SECTION****SEAL AND GASKET SET**IO-360-A1B6D, -A3B6D Engines

Part No.	Part Name	Qty.
LW-12944	SEAL AND GASKET SET	1
MS16625-1081	RING, Internal retaining	1
MS16625-1100	RING, Internal retaining	1
MS29512-10	SEAL	3
06E19769-1.00	GASKET	1
STD-2217	SEAL, Oil	1
06E19769-0.63	GASKET	2
06E19769-1.25	GASKET	1
8313	GASKET	1
60096	GASKET	1
LW-14260	SEAL, Tachometer drive	1
LW-18661	SEAL, Shroud tube	16
66224	GASKET, Injector	1
66732	GASKET, Rocker shaft cover	8
67193	GASKET, Rocker box cover	4
68315	GASKET, Accessory drive adapter	1
LW-13353	GASKET, Oil sump	1
71481	SEAL, Cylinder base	4
71973	GASKET	4
72053	GASKET, Governor	1
72075	"O" RING	6
72091	RING, Oil seal	2
73383	LOCKPLATE	2
75118	GASKET, Exhaust flange	8
73818	GASKET, Accessory housing	1
74068	RING, Oil level gage	1
77569	SEAL, Intake pipe	4
LW-12681	GASKET, Dual magneto	1
LW-10332	LOCKPLATE, Crankshaft	1
LW-13792	SEAL, Crankshaft oil	1
72059	GASKET	1
73032	GASKET	1
74065	"O" RING	1

Williamsport Plant

**SERVICE KIT SECTION**  
**CYLINDER, PISTON AND RING KIT**  
IO-360-B Series

Part No.	Part Name	Qty.
05K21104	CYLINDER, PISTON AND RING KIT	1
LW-12427	CYLINDER & HEAD 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
60009	KEY, Valve, intake	2
17C21191	KEY, Valve, exhaust	2
17C19386	CAP, Valve stem, exhaust	1
75089	PISTON	1
74241	RING, Piston, compression	2
73257	RING, Piston, oil regulating	1
LW-14077	PIN, Piston	1
LW-11775	PLUG, Piston pin	2
60328	PLUG, Piston pin	2
71481	RING, Cylinder base seal	1
LW-18661	SEAL, Snroud tube	2
70310	SEAL, Snroud tube	2
75906	GASKET, Rocker box cover	1
SSP-2472	TAG	1
SSP-2472	TAG	1
SSP-2472	TAG	1
72136	PLUG, Piston pin	2

Williamsport Plant

**SERVICE KIT SECTION****CYLINDER, PISTON AND RING KIT**IO-360-A Series; AIO-360-A, -B Series

Part No.	Part Name	Qty.
05K21120	CYLINDER, PISTON AND RING KIT	1
LW-12993	CYLINDER & HEAD ASSEMBLY	1
LW-16740	VALVE, Exhaust	1
LW-13622	VALVE, Intake	1
LW-11796	SPRING, Valve outer	2
LW-11797	SPRING, Valve inner	2
69532	SEAT, Valve spring, upper, intake	1
LW-16475	SEAT, Valve spring, upper, exhaust	1
LW-13322	SEAT, Valve spring, lower intake & exhaust	2
71481	RING, Cylinder base seal	1
72050	KEY, Valve, intake	2
17C21191	KEY, Valve, exhaust	2
62388	CAP, Valve stem, intake	1
17C19386	CAP, Valve stem, exhaust	1
LW-10207-S	PISTON	1
74241	RING, Piston, compression	2
73857	RING, Piston, oil regulating	1
LW-14077	PIN, Piston	1
60828	PLUG, Piston pin	2
LW-11775	PLUG, Piston pin	2
66732	GASKET, Valve rocker shaft cover	2
67193	GASKET, Rocker box cover	1
LW-18661	SEAL, Shroud tube	4
SSP-2272	TAG	1

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**SERVICE KIT SECTION****CRANKCASE ASSY. AND THRU STUD KITS**

Part No.	Part Name	Qty.
11B20051-1DL-S	CRANKCASE ASSY. AND THRU STUD KIT	1
11B20051-1DL*	CRANKCASE ASSEMBLY	1
76220	THRU STUD	4
74887	SPACER	2
STD-2090	NUT	2
1102	PLUG, 1/8 pipe	6
STD-1339	PLUG, 1/16 pipe (piston squirts)	4
SSP-582	TAG	1
SSP-272	TAG	1
11B20051-1SH-S	CRANKCASE ASSY. AND THRU STUD KIT	1
11B20051-1SH*	CRANKCASE ASSEMBLY	1
76220	THRU STUD	4
74887	SPACER	2
STD-2090	NUT	2
1102	PLUG, 1/8 pipe	6
STD-1339	PLUG, 1/16 pipe	4
SSP-582	TAG	1
SSP-272	TAG	1
11B20051-1SL-S	CRANKCASE ASSY. AND THRU STUD KIT	1
11B20051-1SL*	CRANKCASE ASSEMBLY	1
76220	THRU STUD	4
74887	SPACER	2
STD-2090	NUT	2
1102	PLUG, 1/8 pipe	6
STD-1339	PLUG, 1/16 pipe (piston squirts)	4
SSP-582	TAG	1
SSP-272	TAG	1
LW-13814-S	CRANKCASE, GOV. STUD, THRU STUD KIT	1
LW-13814	CRANKCASE ASSEMBLY	1
31C-14	STUD (AN Governor)	4
31C-16	STUD (Woodward Governor)	4
STD-1339	PLUG	4
76220	THRU STUD	4
74887	SPACER	2
STD-2090	NUT	2
AN565B1032-H4	SET SCREW, 10-32 x 1/4 long	1
AN565B1032-H5	SET SCREW, 10-32 x 5/16 long	1
SSP-1576	TAG	1
LW-18399-S	CRANKCASE ASSY. AND THRU STUD KIT	1
LW-18399-1	CRANKCASE ASSEMBLY	1
31C-14	STUD (AN Governor)	4
76220	THRU STUD	4
74887	SPACER	2
AN565B1032-H4	SET SCREW, 10-32 x 1/4 long	1
AN565B1032-H5	SET SCREW, 10-32 x 5/16 long	1
STD-2090	NUT	2
SSP-1769	TAG	1
SSP-1576	TAG	1
SSP-582	TAG	1

\* See Figure 1, Page 1-1 for component parts.

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## NUMERICAL INDEX

PART NO.	PART NAME	PAGE NO.	PART NO.	PART NAME	PAGE NO.
AN310-7	Nut	5-3	LW-25-1.50	Bolt	2-13
AN365-420C	Nut	6-1	LW-25-1.75	Bolt	1-11
AN381-4-22	Pin	2-7	LW-25-1.75	Bolt	1-13
AN500A416-10	Screw	6-9	LW-25-1.75	Bolt	5-7
AN565B1032H5	Set Screw	2-3	LW-25-2.00	Bolt	1-11
AN6-14	Bolt	5-1	LW-25-2.00	Bolt	5-7
AN6-16	Bolt	5-2	LW-25-2.94	Bolt	2-7
AN6-17	Bolt	5-1	LW-25S1.50	Bolt	1-11
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AN6-34A	Bolt	1-11	LW-25S1.80	Bolt	1-13
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# TECHNICAL PUBLICATION SUPPLEMENT

SUPPLEMENT No.	ENGINE MODEL	PUBLICATION No.	PUBLICATION DATE
SSP-291	IO, AIO-360-A & -B Series	PC-406-1	April, 1991

This supplement is arranged in the same basic format as the original parts catalog  
Insert in front of catalog for useage of subject matter.

## AEROBATIC CONFIGURATIONS

- Figure 3A - Thicker Flange Crankshaft for Aerobatic Configuration
- Figure 34A - Oil Sump Assembly, Suction Screen and Aerobatic Components
- For all other parts, use PC-406-1 and look under the IO-360-xxxx listing.

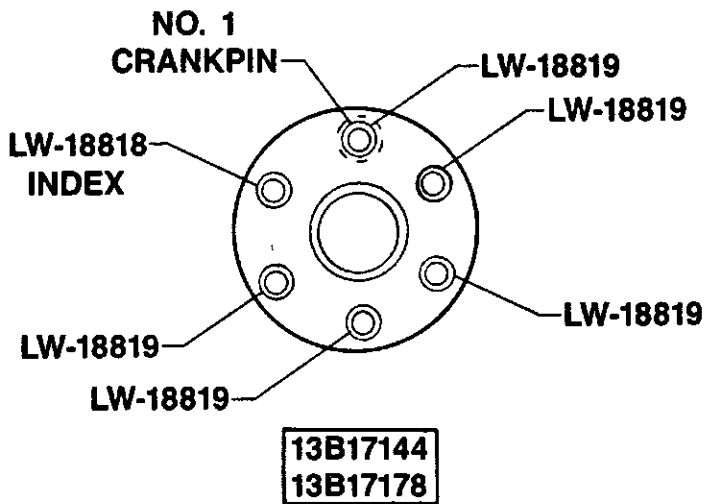
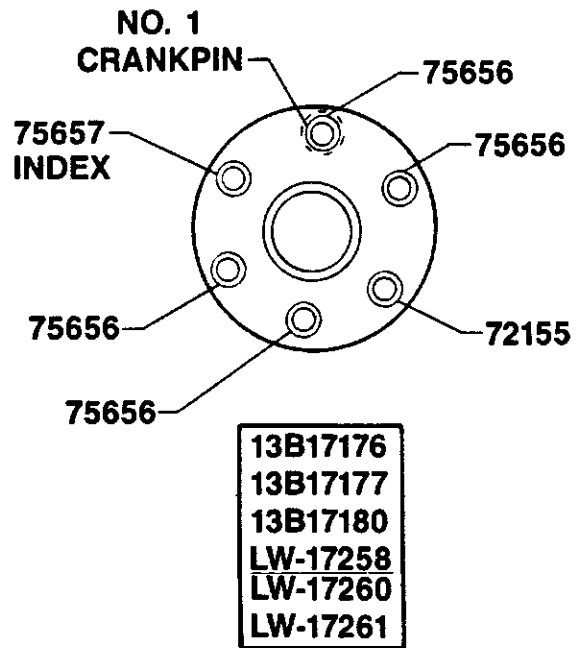
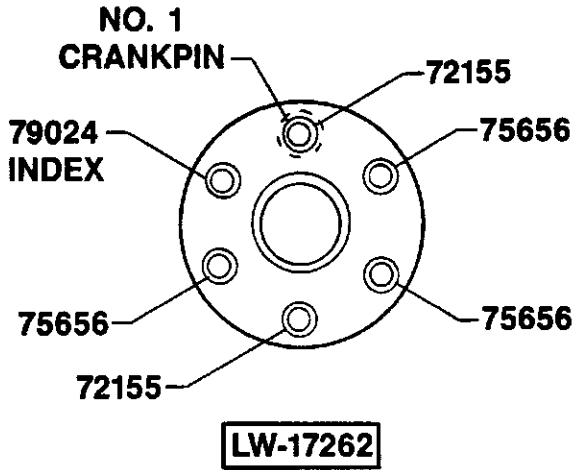
This SSP-291 replaces SSP-984-1 dated January, 1985.



Figure 3A - Thicker Flange Crankshaft For Aerobatic Configuration

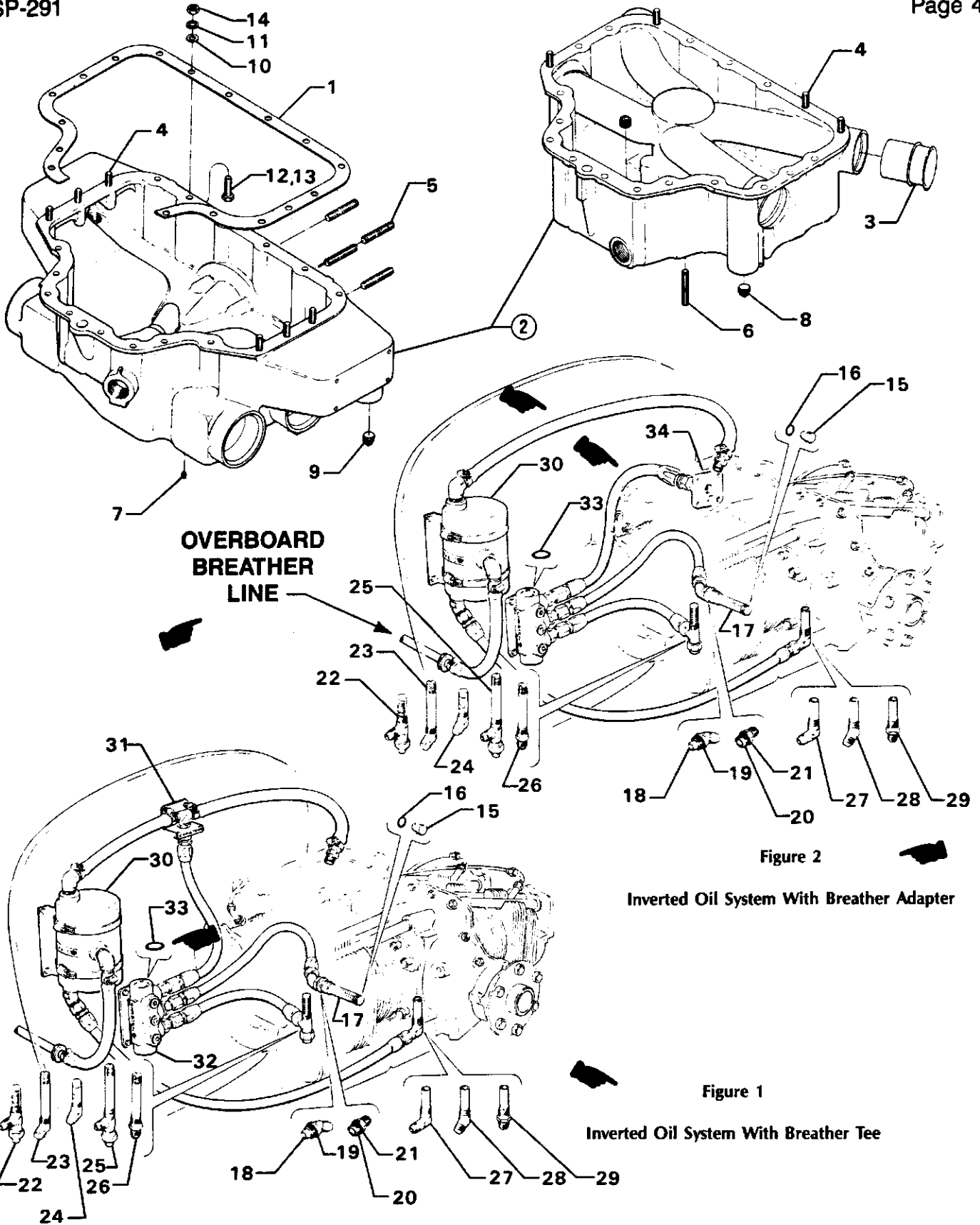
Engine Model	Nomenclature	CRANKSHAFT Aerobatic Configuration
<b>Production —</b>		
AEIO-360-A1A	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-A1B	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-A1B6	CRANKSHAFT & PLUG ASSEMBLY	LW-17258
AEIO-360-A1D	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-B1F	CRANKSHAFT & PLUG ASSEMBLY	13B17177
AEIO-360-B2F	CRANKSHAFT & PLUG ASSEMBLY	13B17178
AEIO-360-B4A	CRANKSHAFT & BUSHING ASSY.	13B17144
<b>IO-360 Models that could be field converted for Aerobatic use —</b>		
IO-360-A1B6D	CRANKSHAFT & PLUG ASSEMBLY	LW-17261
IO-360-A1C	CRANKSHAFT & PLUG ASSEMBLY	13B17176
IO-360-A1D6	CRANKSHAFT & PLUG ASSEMBLY	LW-17258
IO-360-A2A	CRANKSHAFT & PLUG ASSEMBLY	13B17180
IO-360-A2B	CRANKSHAFT & PLUG ASSEMBLY	13B17180
IO-360-A3B6D	CRANKSHAFT & PLUG ASSEMBLY	LW-17262
IO-360-B1B	CRANKSHAFT & PLUG ASSEMBLY	13B17177
IO-360-B1D	CRANKSHAFT & PLUG ASSEMBLY	13B17177
IO-360-B1E	CRANKSHAFT & PLUG ASSEMBLY	13B17177
IO-360-B2F6	CRANKSHAFT & PLUG ASSEMBLY	LW-17260

Figure 3A (Continued) - Bushing Locations





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**Figure 34A. OIL SUMP ASSEMBLY, SUCTION SCREEN AND AEROBIC COMPONENTS**