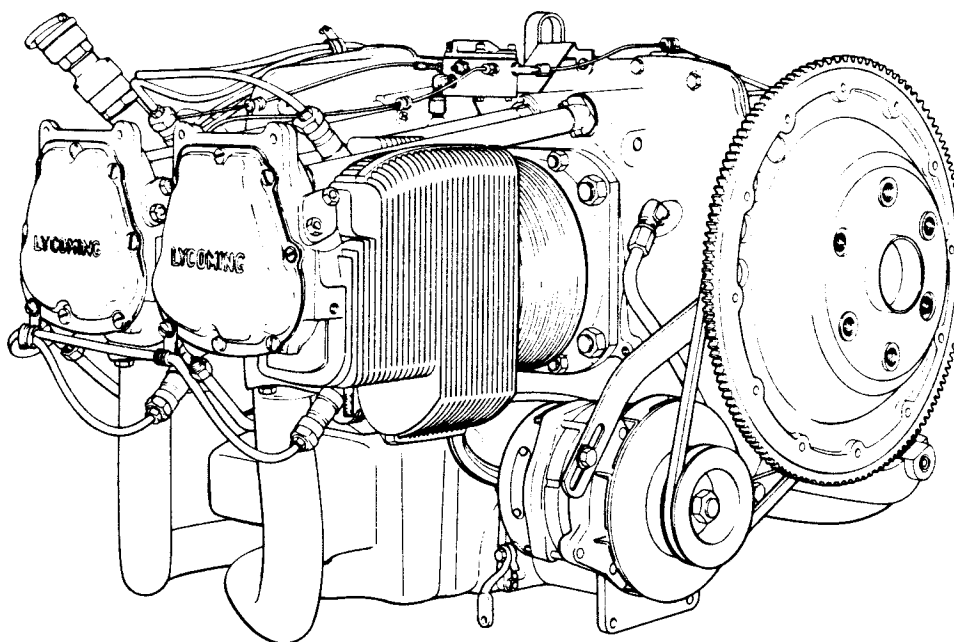


TEXTRON Lycoming AIRCRAFT ENGINES

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

PARTS CATALOG

PC-406-1



2566-A

APRIL, 1991

TEXTRON Lycoming

Williamsport Plant
Textron Lycoming/Subsidiary of Textron Inc.

652 Oliver Street
Williamsport, PA 17701 U.S.A.
717/323-6181

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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
1	11B20051-1DL	CRANKCASE ASSEMBLY (see Note)					1						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
	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
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
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
12	25CD-14	STUD, 1/4-20 x 1-3/4 long, drilled																	2
13	72158	BUSHING, Gov. drive idler shaft								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
18	STD-1623	INSERT, 1/4-20 Helicoil x 3/8 long	2																8
19	65007 *	RETAINER, Shroud tube seal								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
21	STD-1339	PLUG, 1/16-27 NPT, Allen								1				4	4	4	4	4	4
22	31C-16 * *	STUD, 5/16-18 x 2.00 long								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

- * 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.

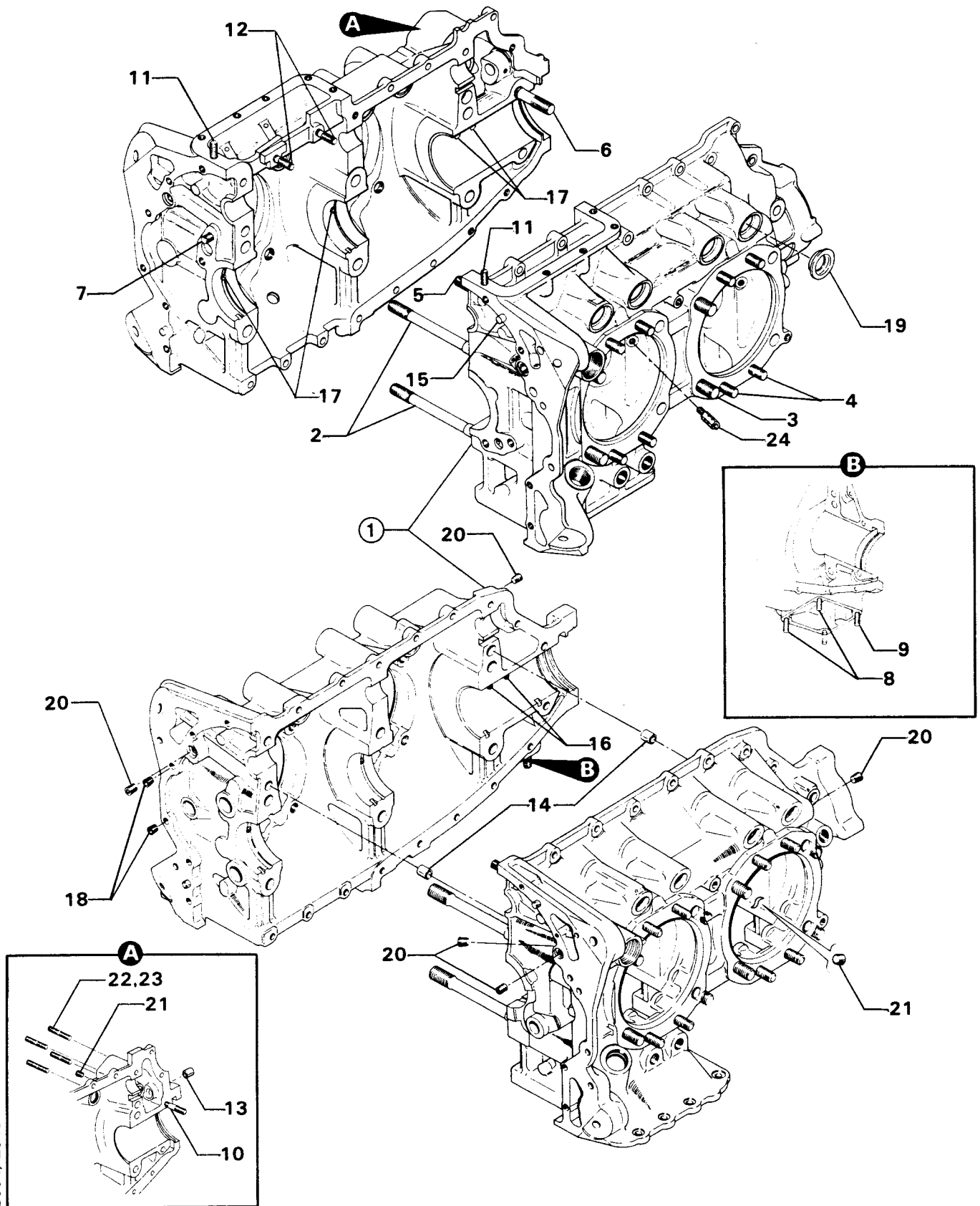


Figure 1. CRANKCASE ASSEMBLY

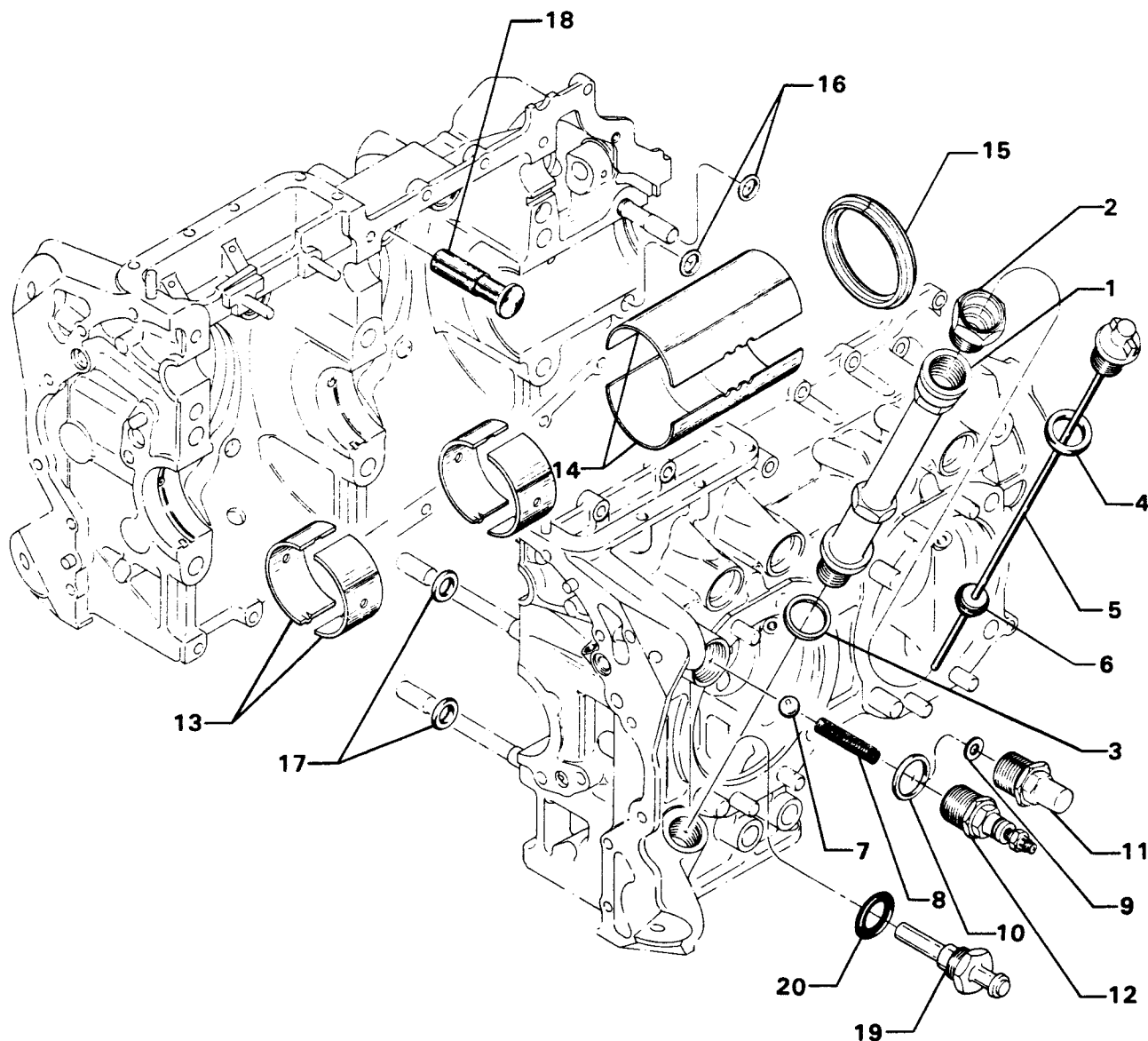
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CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
OIL LEVEL GAGES AND CRANKCASE RELATED PARTS

FIG. REF. 2	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360															AIO-360				
				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	75735	TUBE, Oil level gage, short														1							
	75767	TUBE, Oil level gage, intermediate		1	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	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			
4	74068	RING, Oil level gage seal		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		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			
	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
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
12	77808	VALVE ASSY., Oil pressure relief, adj.		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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CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY

FIG. REF. 3	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-17283	CRANKSHAFT & C'WT. ASSY.																	1					
	LW-17273	CRANKSHAFT & C'WT. ASSY.				1				1														
	LW-17275	CRANKSHAFT & C'WT. ASSY.					1																	
	LW-17276	CRANKSHAFT & C'WT. ASSY.											1											
2	13B17131●	CRANKSHAFT & BUSHING ASSY.																		1				
	13B17132‡	CRANKSHAFT & BUSHING ASSY.																		1				
	LW-17256	CRANKSHAFT & PLUG ASSEMBLY																	1					
	13B17166	CRANKSHAFT & PLUG ASSEMBLY		1	1	1			1	1														
	13B17167	CRANKSHAFT & PLUG ASSEMBLY									1	1												
	13B17179	CRANKSHAFT & PLUG ASSEMBLY																			1	1	1	
	LW-17246	CRANKSHAFT & PLUG ASSEMBLY				1				1														
	LW-17248	CRANKSHAFT & PLUG ASSEMBLY					1																	
	LW-17249	CRANKSHAFT & PLUG ASSEMBLY											1											
	13B17160★	CRANKSHAFT & PLUG ASSEMBLY		1											1	1	1	1						
	13B17161★ ★	CRANKSHAFT & PLUG ASSEMBLY																1						
	13B17162★	CRANKSHAFT & PLUG ASSEMBLY																1						
3	STD-1211	PLUG, 2.00 dia. expansion		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	
4	1102	PLUG, 1/8-27 pipe, Allen		1	1	1	1	1	1	1			1								1	1	1	
5	STD-1065	DOWEL, Stepped, 19/64 x 1/4 dia. x 35/64 long		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	
6	STD-2078	DOWEL, 3/8 O.D. x 1/2 long					1						1											
7	61510★	PLUG, 1-3/4 O.D.		1										1	1	1	1							
	74711	PLUG, 1-1/4 O.D. (1/8 NPT)		1	1	1	1	1	1	1	1	1	1								1	1	1	
8	72060	BUSHING, Prop. flange, indexing		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1		1	1	1	
	72060‡	BUSHING, Prop. flange, indexing																		1				
9	74248★	BUSHING, Prop. flange, indexing, long																	1					
	74248●	BUSHING, Prop. flange, indexing, long																			1			
10	72061	BUSHING, Propeller flange, short		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1		1	1	1	
	72061‡	BUSHING, Propeller flange, short																		1				
11	72062	BUSHING, Propeller flange, long		4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4		4	4	4	
	72062‡	BUSHING, Propeller flange, long																		1				
12	74249★	BUSHING, Propeller flange, long															5							
	74249●	BUSHING, Propeller flange, long																		5				
13	72074	BUSHING, Prop. flange, indexing, long											1											
14	73810	BUSHING, Crankshaft, dyn. c'wt.				4	4			4			4						4					
15	LW-19227	COUNTERWEIGHT ASSEMBLY				2	2			2			2						2					
16	71903	BUSHING, Dynamic counterweight				8	8			8			8						8					
17	LW-10977	ROLLER, Dynamic c'wt., 8th order				2	2			2			2						2					
	72797	ROLLER, Dynamic c'wt., 6.3 order				2	2			2			2						2					
18	LW-14820	RING, Internal retaining				8	8			8			8						8					
19	71907	WASHER, Dynamic counterweight				8	8			8			8						8					

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- * Controllable pitch propeller.
- ** Fixed pitch propeller.
- ★ Fixed pitch Sensenich propeller, longer propeller bushings.
- Solid crankshaft, fixed pitch Sensenich propeller, longer propeller bushings.
- ‡ Solid crankshaft, fixed pitch propeller.

NOTE

Before converting any engine to aerobatic configuration, reference the latest edition of Textron Lycoming Service Bulletin No. 465 and Special Service Publication SSP-291 for proper crankshaft.

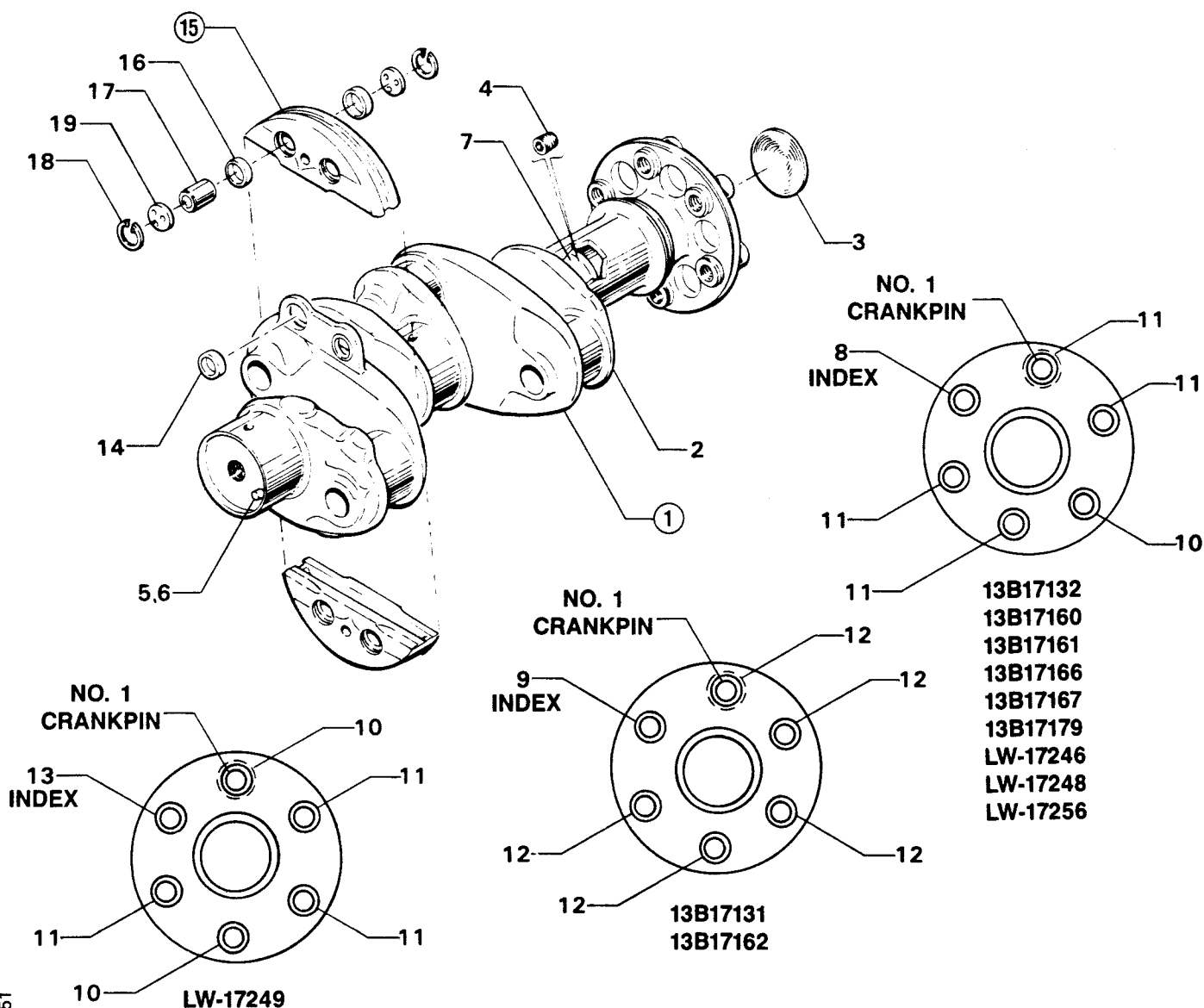


Figure 3. CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY

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CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
STARTER RING GEAR SUPPORT ASSEMBLY

FIG. REF. 4	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
1	LW-16064 *	SUPPORT ASSY., Starter ring gear										1		1	1	1		1			
	75221 * *	SUPPORT ASSY., Starter ring gear		1		1		1	1				1	1							
	77579 ★	SUPPORT ASSY., Starter ring gear	1																		
	75030 ●	SUPPORT ASSY., Starter ring gear		1	1	1		1	1		1	1		1			1				
	LW-10504 ‡	SUPPORT ASSY., Starter ring gear								1											
	LW-16471 ■	SUPPORT ASSY., Starter ring gear				1	1														
	74977 ►	SUPPORT ASSY., Starter ring gear				1															
2	72566	GEAR, Starter ring, 12/14 pitch	1																		

* 1.91:1 drive.

* * 2.50:1 drive, provision for de-icing.

★ 3.20:1 drive, no provision for de-icing.

● 3.20:1 drive, provision for de-icing.

‡ 3.20:1 drive, for 7mm and 11mm belts.

■ 3.20:1 drive, has additional timing marks.

► 3.20:1 drive, dual groove, no provision for de-icing.

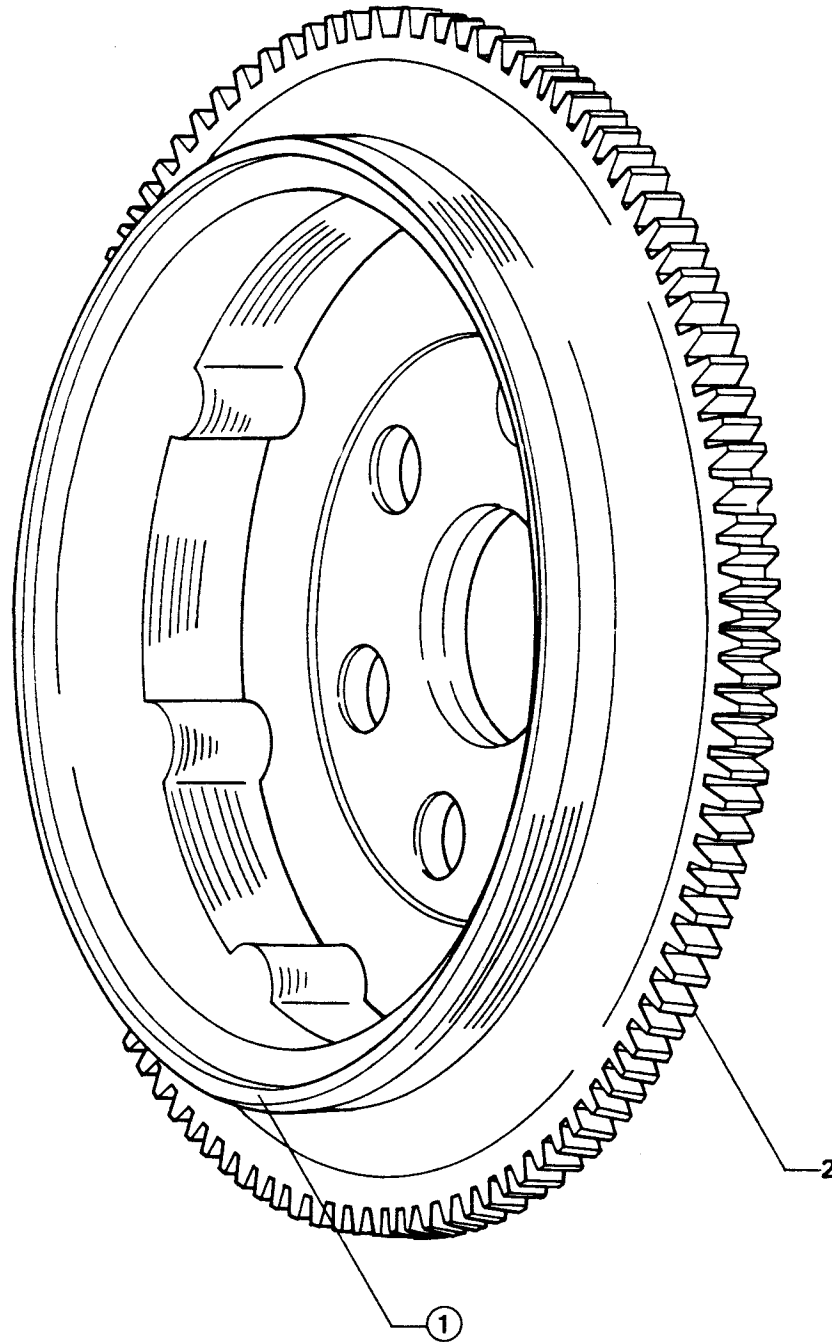


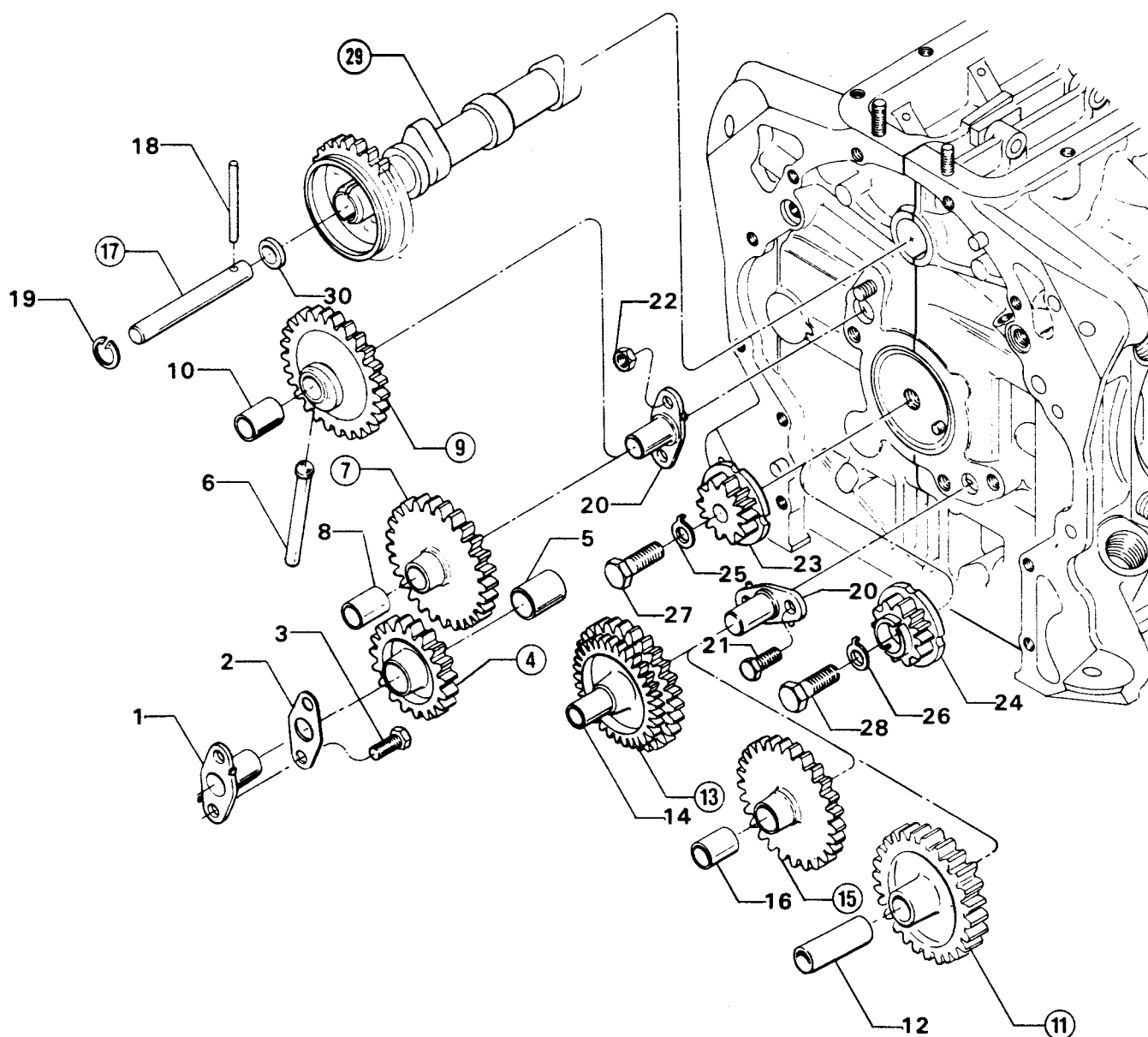
Figure 4. STARTER RING GEAR SUPPORT ASSEMBLY

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

FIG. REF. 5	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	72230	SHAFT, Injector pump idler gear													1								
2	72829	LOCKPLATE, 1/4 bolt x 1-3/4 spacing													1								
3	LW-25-0.63	SCREW, 1/4-20 x 11/16 long, hex. hd.													2								
4	72231	GEAR ASSY., Fuel pump idler													1								
5	77309	BUSHING, Crankshaft idler gear													1								
6	61544	PLUNGER, Fuel pump, long		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	74996	GEAR ASSY., Crankshaft idler, plain		1	1	1		1	1	1	1	1		1	2	1	1	1	1	1	1	1	1
8	77309	BUSHING, Crankshaft idler, plain		1	1	1		1	1	1	1	1		1	2	1	1	1	1	1	1	1	1
9	75072	GEAR ASSY., Crankshaft idler		1	1	1		1	1	1	1	1		1		1	1	1	1	1	1	1	1
10	77309	BUSHING, Crankshaft idler gear		1	1	1		1	1	1	1	1		1		1	1	1	1	1	1	1	1
11	LW-10296 *	GEAR ASSY., Crankshaft idler					1																
12	LW-10299 *	SHAFT, Crankshaft idler gear					1																
13	LW-12911 **	GEAR ASSY., Crankshaft idler					1						1										
14	LW-10299 **	SHAFT, Crankshaft idler gear					1						1										
15	LW-10286 **	GEAR ASSY., Crankshaft idler					1						1										
16	LW-10298 **	SHAFT, Crankshaft idler gear					1						1										
17	76121	SHAFT ASSY., Tachometer	1																				
18	LW-18667	PIN, 3/16 dia. x 2-21/64 long	1																				
19	MS16625-1081	RING, Internal retaining	1																				
20	LW-13796	SHAFT, Crankshaft idler gear		2	2	2		2	2	2	2	2		2	2	2	2	2	2	2	2	2	2
21	STD-2167	SCREW, 5/16-18 x 7/8 long, hex. hd.		3	3	3		3	3	3	3	3		3	3	3	3	3	3	3	3	3	3
22	STD-2168	NUT, 5/16-18 NC-3 slotted shear		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
23	13S19646	GEAR, Crankshaft		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
24	13S19649	GEAR, Crankshaft					1						1										
25	LW-18639	LOCKPLATE, Crankshaft gear		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
26	LW-10332	LOCKPLATE, Crankshaft gear					1						1										
27	STD-2213	SCREW, 5/16-24 x 1.00 long		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1
28	AN8-14A	BOLT, 1/2-20 x 1-19/32 long, hex. hd.					1						1										
29	LW-18840	CAMSHAFT ASSEMBLY		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1			
	LW-18843 ★	CAMSHAFT ASSEMBLY								1											1	1	1
	LW-15445 ●	CAMSHAFT ASSEMBLY				1																	
30	76118	SPACER, Tachometer shaft centering	1																				

- * Used when engine employs a front end (crankcase) propeller governor drive or employs no propeller governor drive.
- ** "AC" fuel pump drive (dual magneto).
- ★ Propeller governor drive at front end (crankcase).
- Used on engines employing hyperbolic tappets.

**Figure 5. CRANKSHAFT IDLER GEARS, TACHOMETER DRIVE AND CAMSHAFT**

Williamsport Plant

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKCASE ATTACHING PARTS

FIG. REF. 6	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
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
	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
	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
6	60803	STRAP, Lifting		1	1	1	1	1	1		1	1	1		1	1		1	
	60803 **	STRAP, Lifting												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
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													1				
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													5				
	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													1				
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													1				
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).

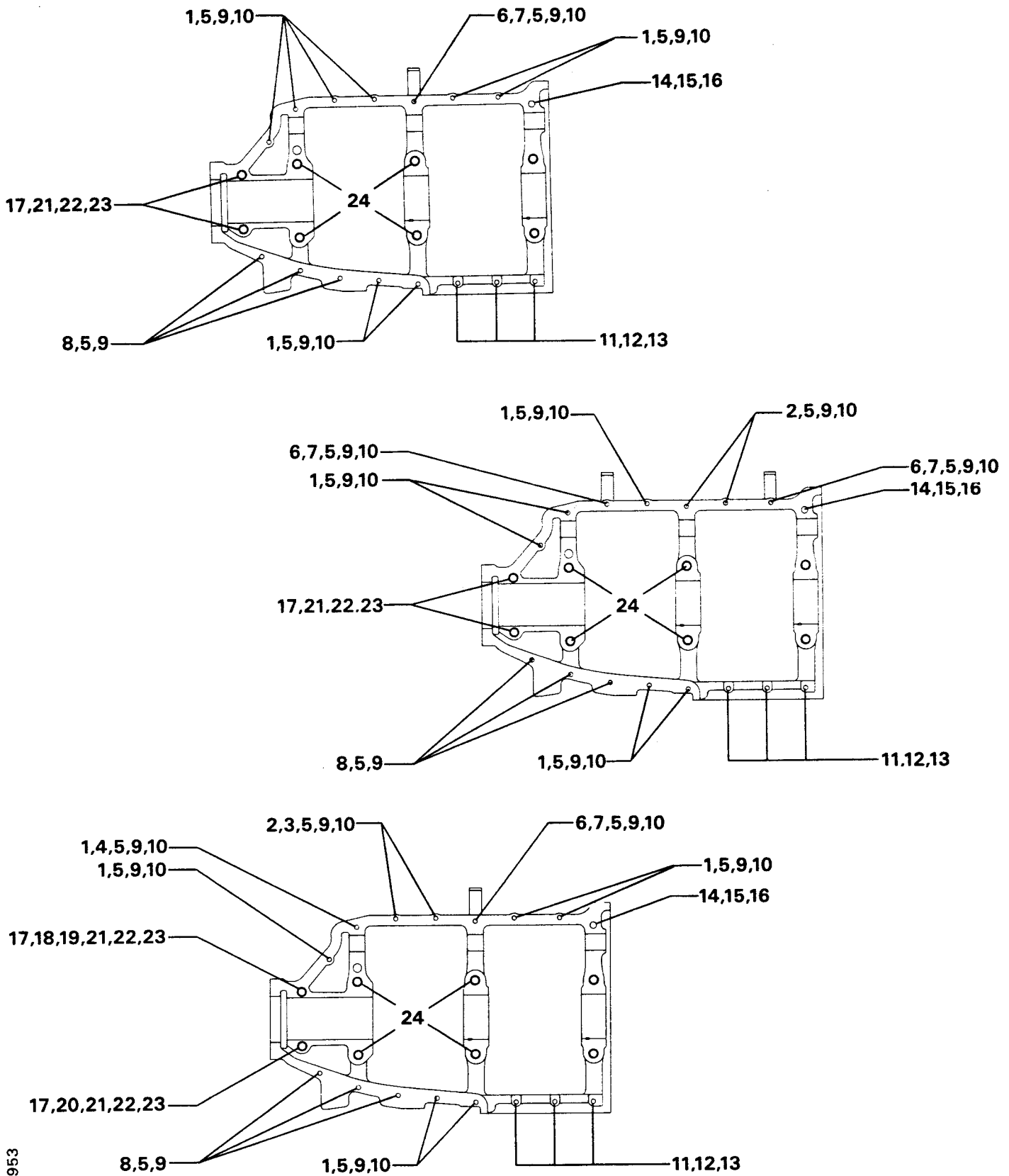


Figure 6. CRANKCASE ATTACHING PARTS

Williamsport Plant

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.						8												5	5	5	
2	STD-8	WASHER, 1/4 plain						20												15	15	15	
3	60803	STRAP, Lifting						1												1	1	1	
4	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.						1												1	1	1	
5	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.						4												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						12												11	11	11	
8	STD-1411	NUT, 1/4-20 plain						9												6	6	6	
9	LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd., dr. end						3															
10	LW-25S1.80	BOLT, 1/4-20 x 1-13/16 long, hex. hd., dr. end																		3	3	3	
11	STD-8	WASHER, 1/4 plain						9												8	8	8	
12	STD-1409	NUT, 1/4-20 slotted shear						3												5	5	5	
13	STD-33	WASHER, 3/8 plain						3												3	3	3	
14	AN960-616L	WASHER, 3/8 plain (thick) (max. 3)						AR												AR	AR	AR	
15	STD-872	NUT, 3/8-24 slotted						1												1	1	1	
16	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.						1												1	1	1	
17	STD-33	WASHER, 3/8 plain						2												3	3	3	
18	STD-678	WASHER, 3/8 lock, internal teeth						2												2	2	2	
19	STD-596	NUT, 3/8-24 plain						2												2	2	2	
20	76220	STUD, 1/2-20 x 10-11/16 long						4												4	4	4	

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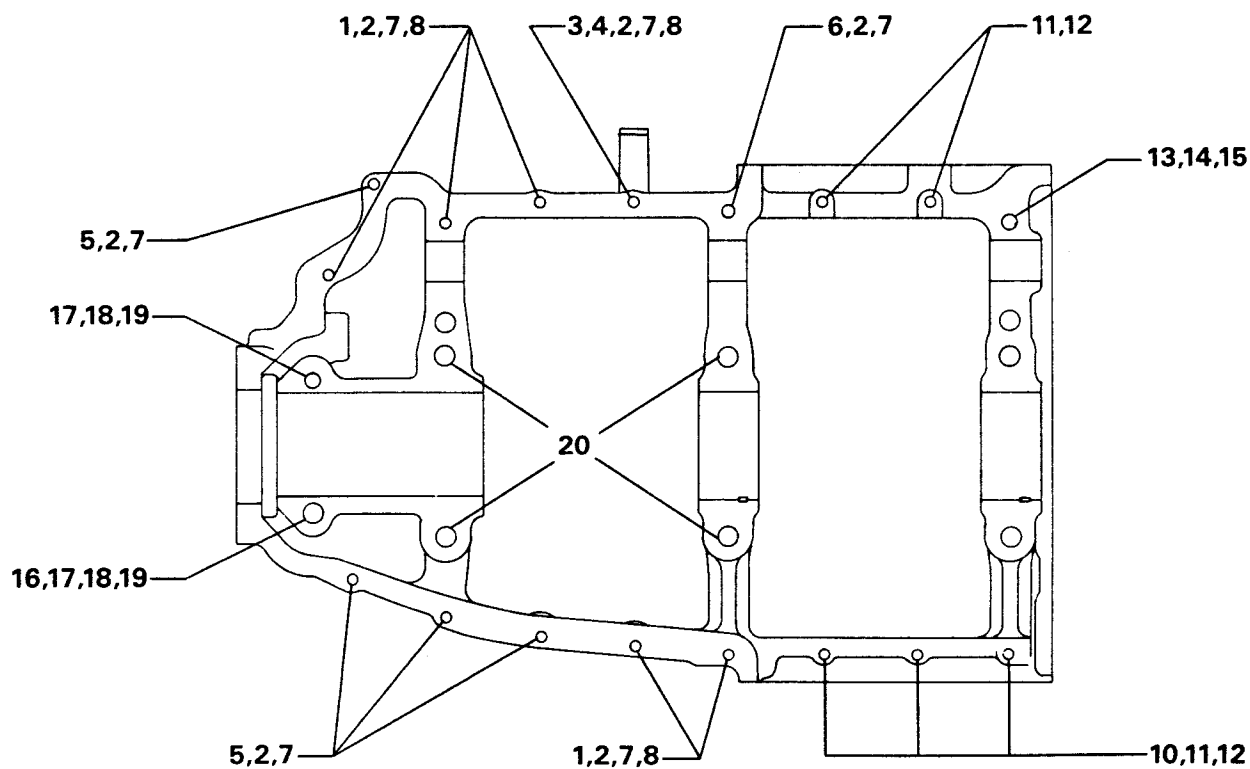
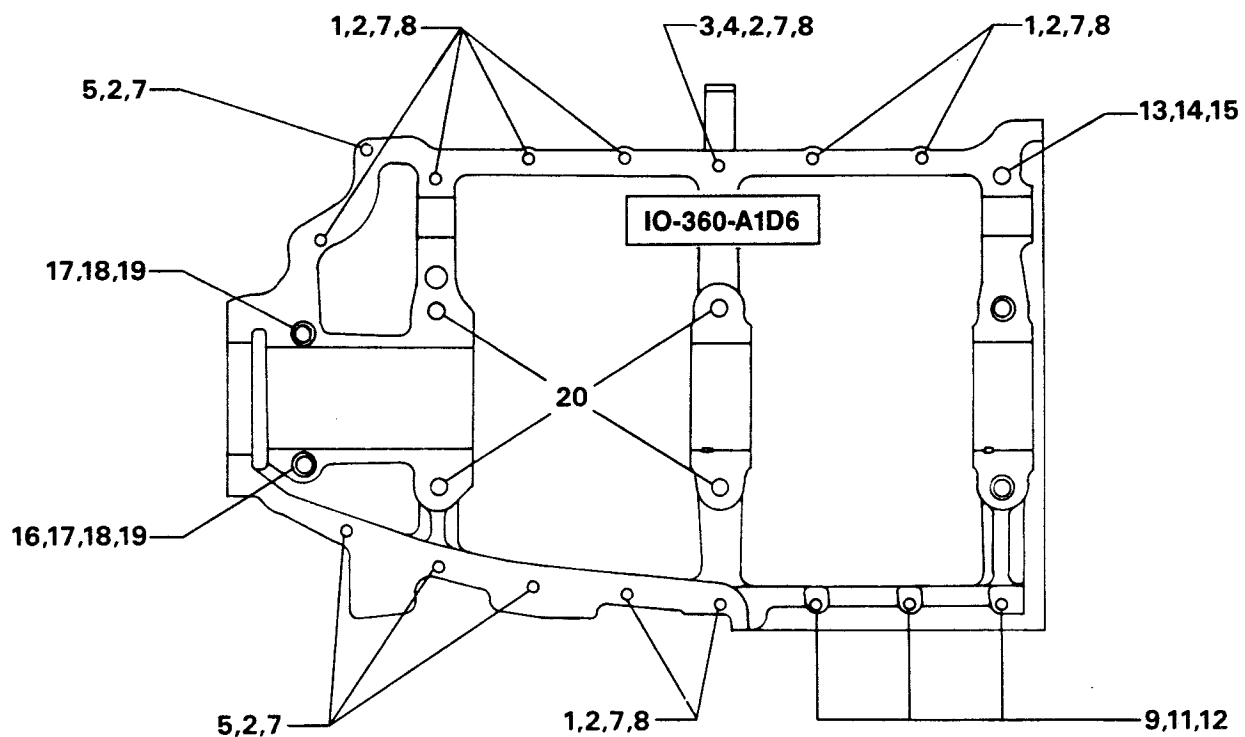


Figure 6A. CRANKCASE ATTACHING PARTS (AIO & FRONT MOUNTED PROP. GOVERNOR)

Williamsport Plant

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	B 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							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	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	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							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	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	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	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	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.

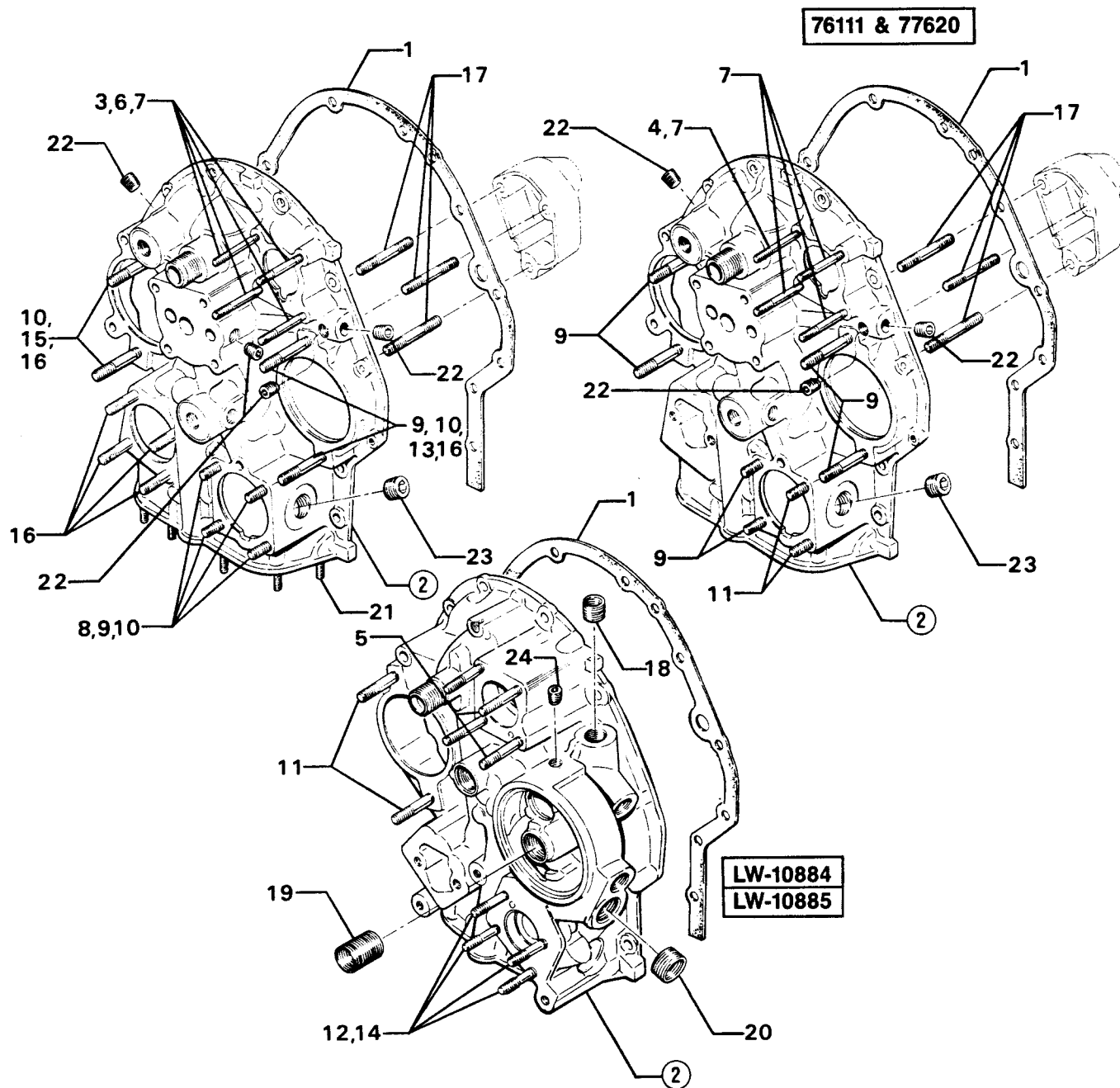


Figure 7. ACCESSORY HOUSING ASSEMBLY

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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									

Williamsport Plant

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
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
	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.

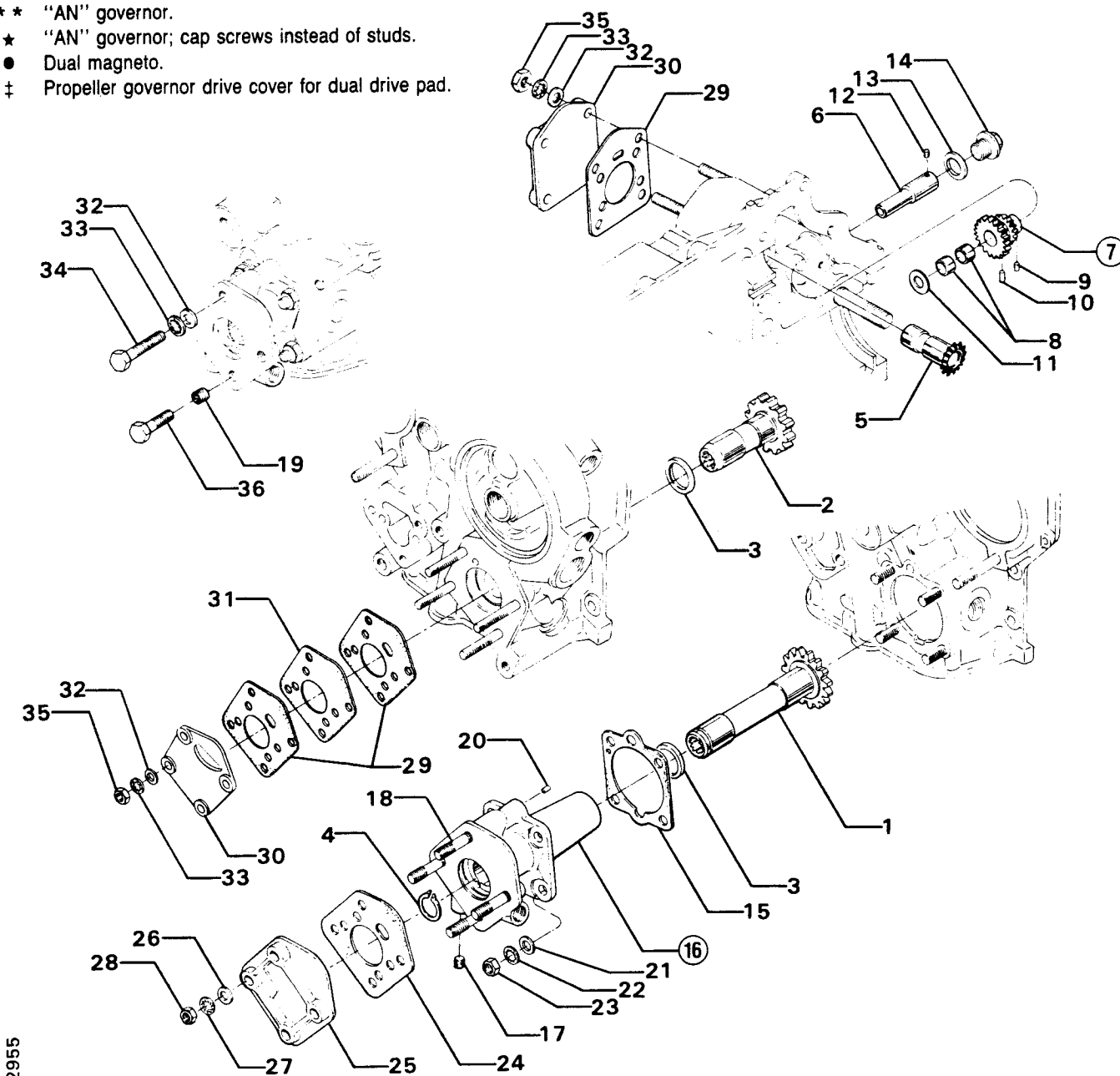


Figure 8. PROPELLER GOVERNOR DRIVES, ADAPTER ASSEMBLY AND COVERS

Williamsport Plant

ACCESSORY HOUSING AND RELATED PARTS
PROPELLER GOVERNOR OIL LINES

FIG. REF. 9	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	B 1 B
1	75166 ★	TUBE ASSY., Propeller gov. oil line													1								
	75166 ★ ★	TUBE ASSY., Propeller gov. oil line													1								
	75167 ★	TUBE ASSY., Propeller gov. oil line		1	1	1		1	1		1				1		1	1					
	75167 ●	TUBE ASSY., Propeller gov. oil line				1									1	1		1					
	75730 ‡	TUBE ASSY., Propeller gov. oil line		1	1																		
	75730 ■	TUBE ASSY., Propeller gov. oil line		1				1															
	LW-10494 ★	TUBE ASSY., Propeller gov. oil line			1	1			1														
	LW-12920 ►	TUBE ASSY., Propeller gov. oil line					1						1										
2	STD-1930	HOSE, 3/8 I.D. x 1.00 long		1	1	1	1	1	1		1		1	1	1	1	1						
3	75165	CLIP, Propeller gov. oil line support		1	1	1	1	1	1		1		1	1	1	1	1						
4	STD-35	WASHER, 5/16 plain		3	3	3	3	3	3		3		3	3		3	3						
5	STD-475	WASHER, 5/16 lock, internal teeth		1	1	1	1	1	1		1		1	1		1	1						
6	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. hd.		1	1	1	1	1	1		1		1	1		1	1						
7	LW-16266-25-38	CLAMP		1	1	1	1	1	1		1		1	1	1	1	1						
8	MS20822-6	ELBOW, 3/8 flared tube & 1/4 NPT, 90°		1	1	1	1	1	1		1		1	1	1	1	1						
9	74070	ELBOW, 3/8 flared tube & 9/16-18 str.																					
		thd., 45° adj.		1	1	1	1	1	1		1		1	1	1	1	1						
10	75739	NIPPLE, 3/8 flared tube & 9/16-18 str.																					
		thd.												1									
11	AN814-6L ◀	PLUG, Governor oil line												1									
12	MS29512-6 ◀	SEAL, Oil, 5/64 dia. sect. x 15/32 I.D.												1									
13	STD-783 ◀	PLUG, 1/4-18 NPT, Allen head									1	1		1				1	1	1			

- * Used with P/N 75739 straight nipple at governor adapter set-up used with alternator.
- * * Used with P/N 75739 straight nipple at governor adapter set-up used with generator.
- ★ Used with P/N 74070 (45°) elbow at governor adapter set-up used with alternator.
- Used with P/N 74070 (45°) elbow at governor adapter set-up used with generator.
- ‡ Used with P/N 74070 (45°) elbow at governor adapter set-up used with alternator for Mooney.
- Used with P/N 74070 (45°) elbow at governor adapter set-up used with generator for Mooney.
- Dual magneto.
- ◀ No propeller governor oil line installed.

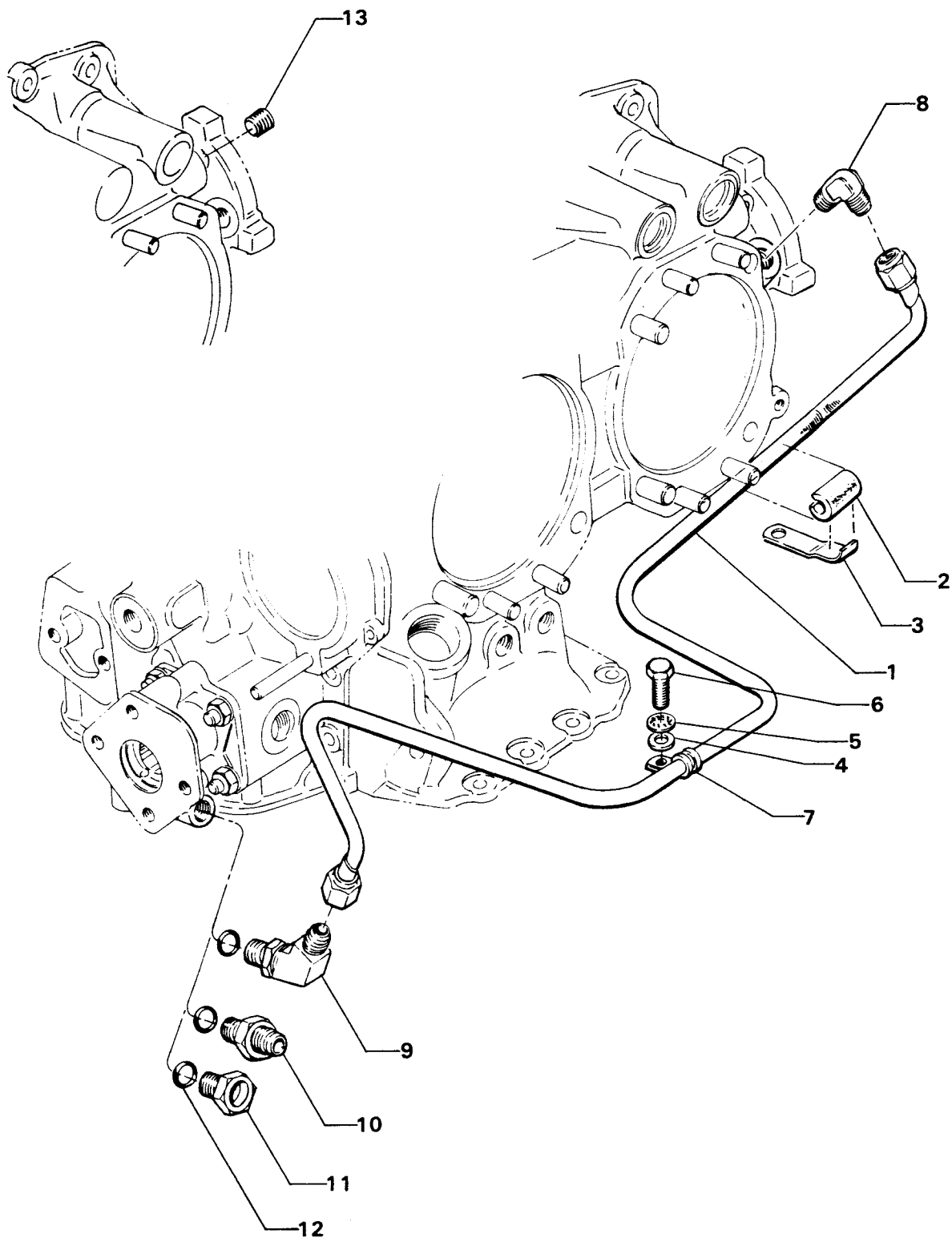


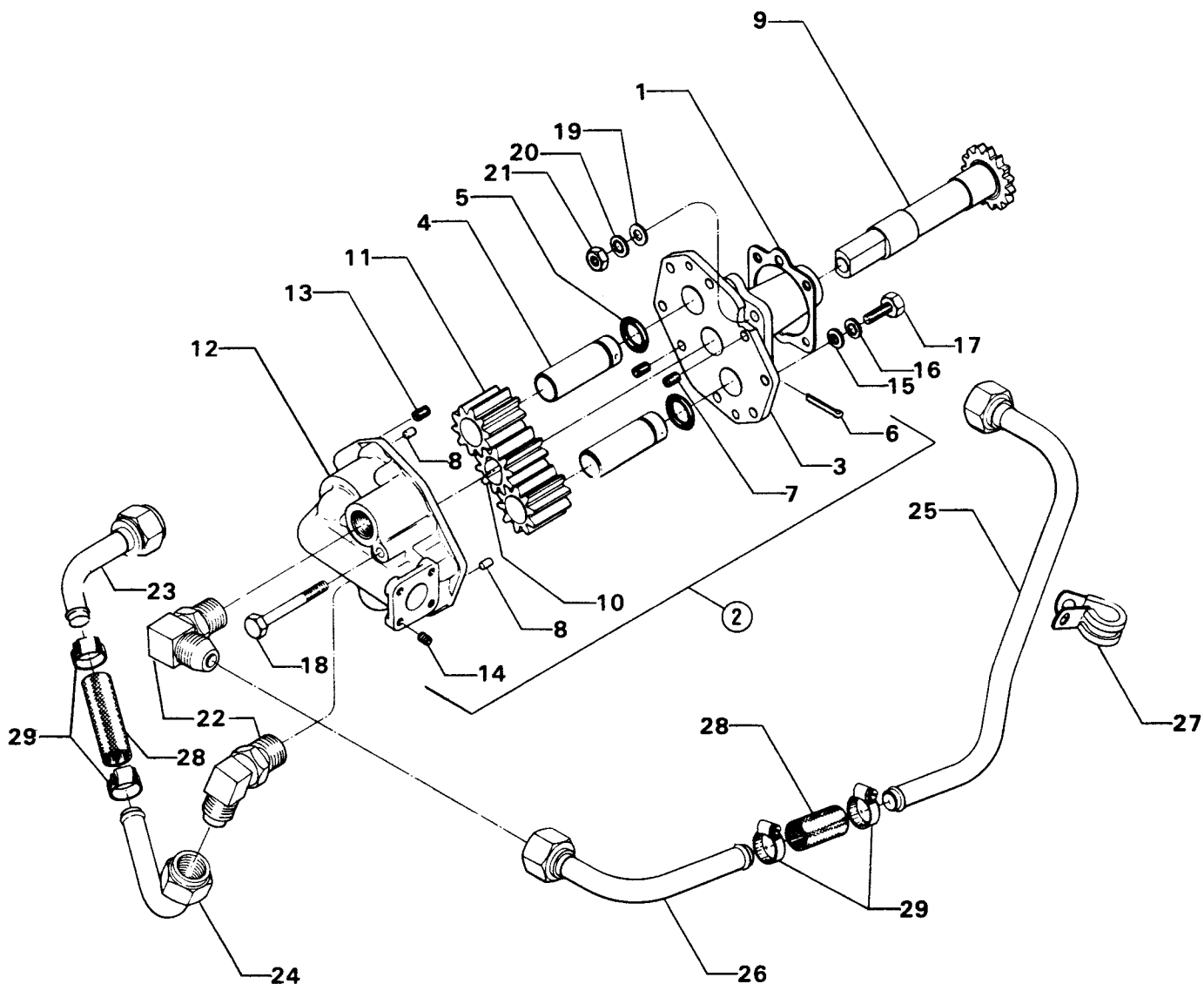
Figure 9. PROPELLER GOVERNOR OIL LINES

Williamsport Plant

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

Williamsport Plant

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

Williamsport Plant

ACCESSORY HOUSING AND RELATED PARTS
OIL FILTER ASSEMBLY

FIG. REF. 11	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 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 4 A	A 1 A	A 1 B	B 1 B
1	62817 *	SCREEN ASSY., Oil pressure		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
2	61173 *	GASKET, Oil pressure housing		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
3	69510 *	HOUSING, Thermostatic valve & oil																			
		pressure screen		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
4	68974 **	HOUSING, Oil pressure screen																1			
5	06E19769-0.63 *	GASKET, 7/8 O.D. x 5/8 I.D. x 3/32																			
		annular		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
6	STD-8 *	WASHER, 1/4 plain		4	4	4		4	4		4	4	4	4	4	4	4	4	4	4	4
7	STD-160 *	WASHER, 1/4 lock, internal teeth				4											4				
8	LW-25-0.75 *	BOLT, 1/4-20 x 3/4 long, hex. hd.				4											4				
9	STD-1856 *	SCREW, 1/4-20 x 1.00 long, hex. hd.		4	4	4		4	4		4	4	4	4	4	4	4	4	4	4	4
10	53E19600 *	VALVE ASSY., Temp. control oil cooler																			
		bypass		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
11	76510 *	GASKET, Valve assembly		1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1
12	LW-12795 *	GASKET, Oil filter adapter		2	2	2			2		2	2	2	2	2			2			2
13	LW-14089 *	KIT, Oil filter element		1	1	1			1				1	1	1			1			1
14	77852 *	OIL FILTER BASE ASSEMBLY		1	1	1			1				1	1	1			1			1
	77852 ●	OIL FILTER BASE ASSEMBLY		1	1	1					1			1	1			1			1
15	54D19625 ●	OIL FILTER, Textron (short - with stud)		1	1	1					1			1	1			1			1
16	STD-8 *	WASHER, 1/4 plain		4	4	4			4		4	4	4	4	4			4			4
17	STD-160 *	WASHER, 1/4 lock, internal teeth		1	1	1			1		1	1	1	1	1			1			1
18	STD-1411 *	NUT, 1/4-20 plain		1	1	1			1		1	1	1	1	1			1			1
19	STD-1856 *	SCREW, 1/4-20 x 1.00 long, hex. hd.		3	3	3			3		3	3	3	3	3			3			3
20	53E19600 *	VALVE ASSY., Temp. control oil cooler																			
		bypass		1	1	1			1		1	1	1	1	1			1			1
21	76510 *	GASKET, Valve assembly		1	1	1			1		1	1	1	1	1			1			1
22	25C-10 *	STUD, 1/4-20 x 1-1/4 long		1	1	1			1		1	1	1	1	1			1			1
23	55C21021 ‡	SPRING, Oil filter bypass valve					1					1									
24	76539 ‡	SEAT, Oil relief valve					1					1									
25	LW-10320 ‡	SLEEVE, Oil filter bypass valve					1					1									
26	MS16625-1100 ‡	RING, Internal retaining					1					1									
27	LW-13904 ‡	KIT, Converter plate, oil filter					1					1									
28	54D19627 ‡	OIL FILTER, Textron, (short - no stud)					1					1									
29	53E19600 ‡	VALVE ASSY., Temp. control oil cooler																			
		bypass					1					1									
30	76510 ‡	GASKET, Valve assembly					1					1									

- * Oil pressure screen housing assembly incorporating a thermostatic valve.
- ** Oil pressure screen housing assembly without thermostatic valve.
- ★ Oil filter housing assembly (canister type). P/N 77853 oil filter housing (shown by offset view) will no longer be sold by Textron Lycoming.
- Throw away oil filter.
- ‡ Dual magneto.

NOTE

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

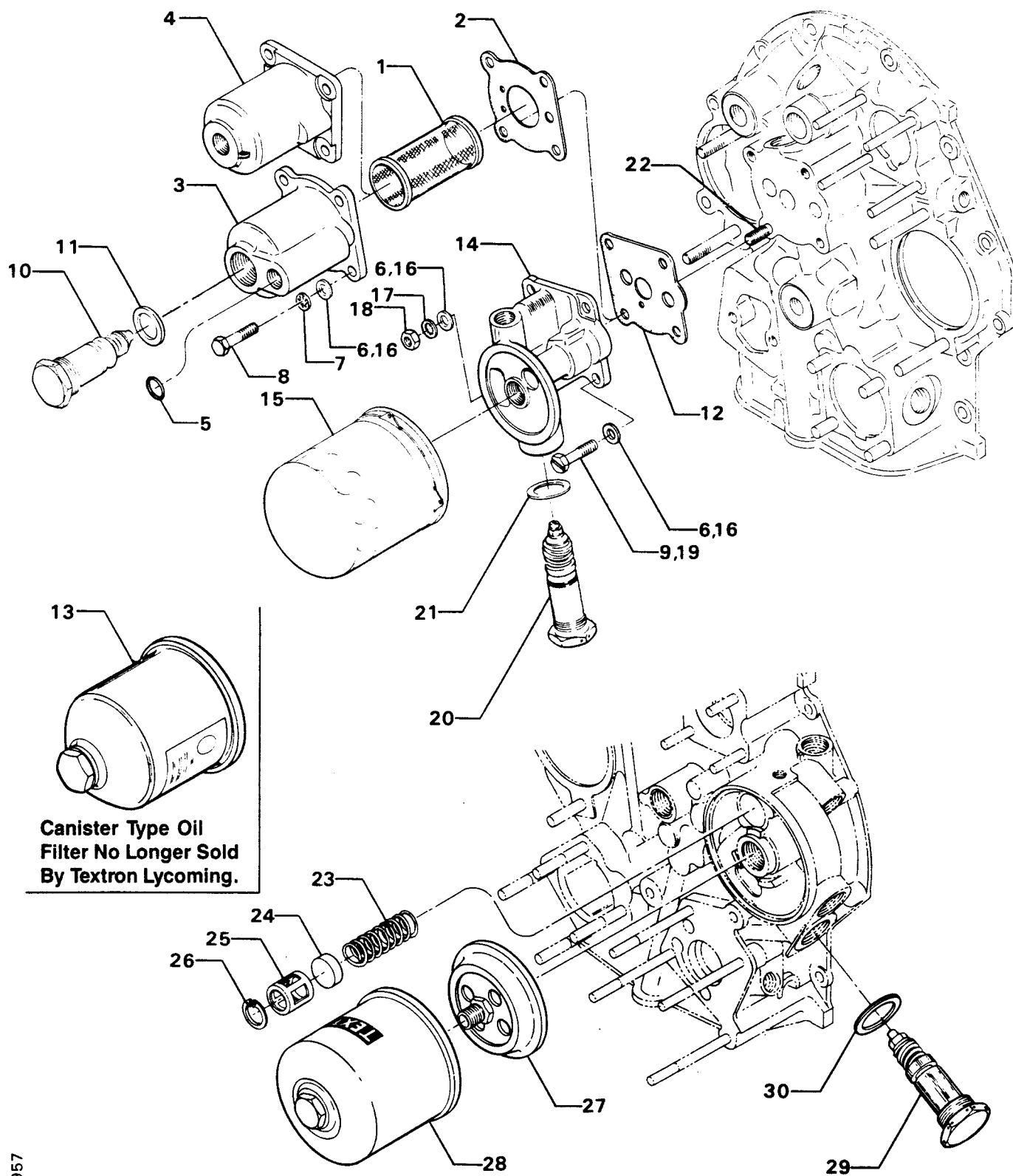


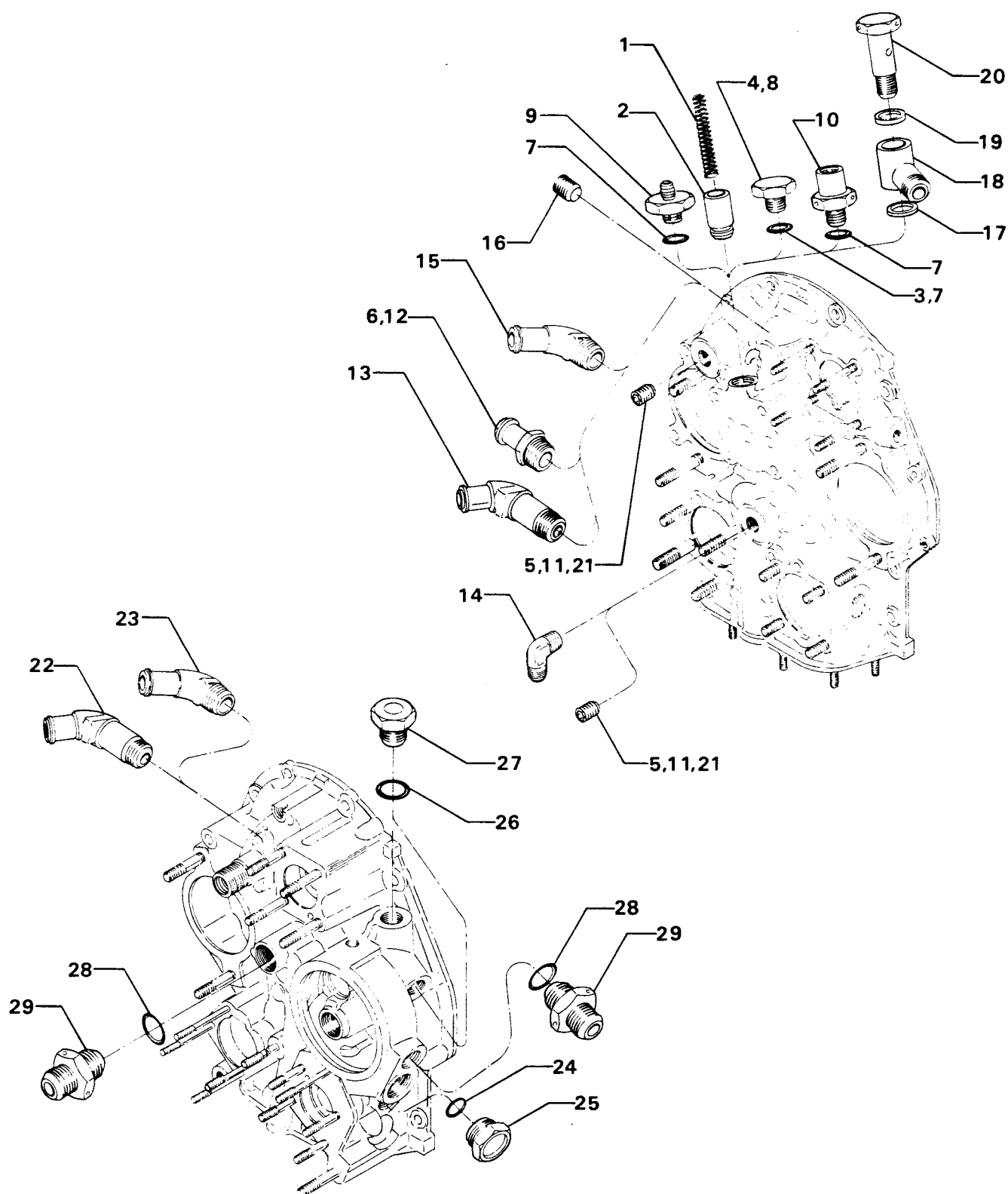
Figure 11. OIL FILTER ASSEMBLY

Williamsport Plant

ACCESSORY HOUSING AND RELATED PARTS
OIL COOLER AND BREATHER FITTINGS

FIG. REF. 12	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	B 1 B
1	69436	SPRING, Oil cooler bypass																		1			
2	62415	PLUNGER, Oil cooler bypass																		1			
3	06E19769-0.63	GASKET, 7/8 O.D. x 5/8 I.D. x 3/32																					
		annular																		1	1	1	1
4	62417	PLUG, Oil cooler bypass																		1	1	1	1
5	STD-784	PLUG, 3/8-18 NPT, Allen																		2	2	2	2
6	71140 *	FITTING, Breather																		1			
7	06E19769-0.63	GASKET, 7/8 O.D. x 5/8 I.D. x 3/32																					
		annular		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1			
8	62417 * *	PLUG, Oil cooler bypass		1	1	1			1		1					1	1		1				
9	69675 ★	CONNECTOR, Acc. hsg. to oil cooler																					
		inlet hose		1	1	1		1	1	1		1		1		1	1	1	1	1			
10	71600 ●	ADAPTER, Oil cooler connection									1				1								
11	STD-784 * *	PLUG, 3/8 pipe, Allen		2	2	2			2		2					1	2		2				
	STD-784 ★	PLUG, 3/8 pipe, Allen		2	2	2		2	2	2		2		2		2	2	2	2	2			
	STD-784 ●	PLUG, 3/8 pipe, Allen									2				2								
12	71140 * *	FITTING, Breather		1	1	1					1					1			1				
	71140 ★	FITTING, Breather		1	1	1		1	1	1		1		1		1	1	1	1	1			
	71140 ●	FITTING, Breather									1				1								
13	72413 ‡	FITTING, Breather, 120°				1		1															
14	MS20823-8 ■	ELBOW, 1/2 flared tube, 3/8 pipe thd.														1							
15	AN844-10D ►	ELBOW, 5/8 I.D. hose, pipe thd., 45°														1							
16	AN932-5 ◄	PLUG, 1/2 pipe, Allen hd.																			1	1	1
17	71623	WASHER, Oil cooler fitting			1	1			1		1	1		1			1	1					
18	AN777-8D	ELBOW, Universal, 75°			1	1			1		1	1		1			1	1					
19	AN901-8A	GASKET, Metal tube connection seal			1	1			1		1	1		1			1	1					
20	71620	BOLT, Oil cooler fitting			1	1			1		1	1		1			1	1					
21	STD-784	PLUG, 3/8 pipe, Allen			2	2			2		2	2		2			2	2					
22	72413	FITTING, Breather, 120° elbow			1	1	1		1		1	1		1			1	1					
	71140	FITTING, Breather						1															
23	AN844-10D	ELBOW, 5/8 I.D. hose, pipe thd., 45°						1					1										
24	MS29512-10	SEAL, Oil, 3/32 section x 45/64 I.D.						1					1										
25	AN814-10L	PLUG, Turbo drain back						1					1										
26	06E19769-0.63 ‡ ‡	GASKET, 7/8 O.D. x 5/8 I.D. x 3/32																					
		annular						2					2										
27	1540 ‡ ‡	PLUG, Thermometer well						2					2										
28	MS29512-10	SEAL, Oil, 3/32 section x 45/64 I.D.						2					2										
29	LW-12903	REDUCER, 3/8 tube to 5/8 tube						2															
	AN919-15	REDUCER, 1/2 tube to 5/8 tube						2					2										

- * Oil cooler bypass spring and plunger with breather fitting.
- * * Used in place of oil cooler outlet fitting.
- ★ 3/8 flared tube connection to oil cooler.
- 3/8 pipe tap connection to oil cooler.
- ‡ 120° elbow used with P/N 69675 (3/8) flared tube connector.
- Assemble in lower oil cooler boss.
- Assemble in accessory housing breather boss.
- ◄ Assemble in accessory housing breather hole.
- ‡ ‡ Assemble at oil temperature and oil pressure bosses.

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

Williamsport Plant

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

FIG. REF. 13	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	78528 *	BODY ASSY., Oil pump													1										
2	STD-1339	PLUG, 1/16-27 NPT, Allen hd.													1										
3	78531 * *	BODY, Oil pump		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
4	LW-10342 *	BODY, Oil pump					1						1												
5	LW-18110 ●	IMPELLER ASSY., Oil pump driven	1																						
6	LW-14040 *	GEAR ASSY., Oil pump drive					1						1												
7	61166 *	THRUST BUTTON					1						1												
8	61174	SHAFT, Oil pump drive		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
9	LW-18109 ●	IMPELLER, Oil pump driving	1																						
10	STD-35	WASHER, 5/16 plain	3																						
11	STD-1420	NUT, 5/16-18 slotted		3	3	3		3	3	3	3	3		3	3	3	3	3	3	3	3	3	3	3	3
12	LW-31H1.75 *	BOLT, 5/16-18 x 1-3/4 long					3						3												
13	LW-14260	SEAL, Tachometer drive, oil	1																						
14	STD-8	WASHER, 1/4 plain	12																						
15	STD-160	WASHER, 1/4 lock, internal teeth	12																						
16	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.		10	10	10		10	10	10	10	10		10	10	10	10	10	10	10	10	10	10	10	10
	LW-25-0.94 *	BOLT, 1/4-20 x 15/16 long, hex. hd.					9						9												
17	LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd.		2	2	2		2	2	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2
18	LW-25-1.25 *	BOLT, 1/4-20 x 1-1/4 long, hex. hd.					1						1												
19	LW-25-0.81 *	BOLT, 1/4-20 x 13/16 long, hex. hd.					2						2												

* "AN" fuel pump drive.

* * "AC" fuel pump drive.

★ "AN" or "AC" fuel pump drive, dual magneto.

● Refer to the latest edition of Textron Lycoming Service Bulletin No. 455 for kit availability.



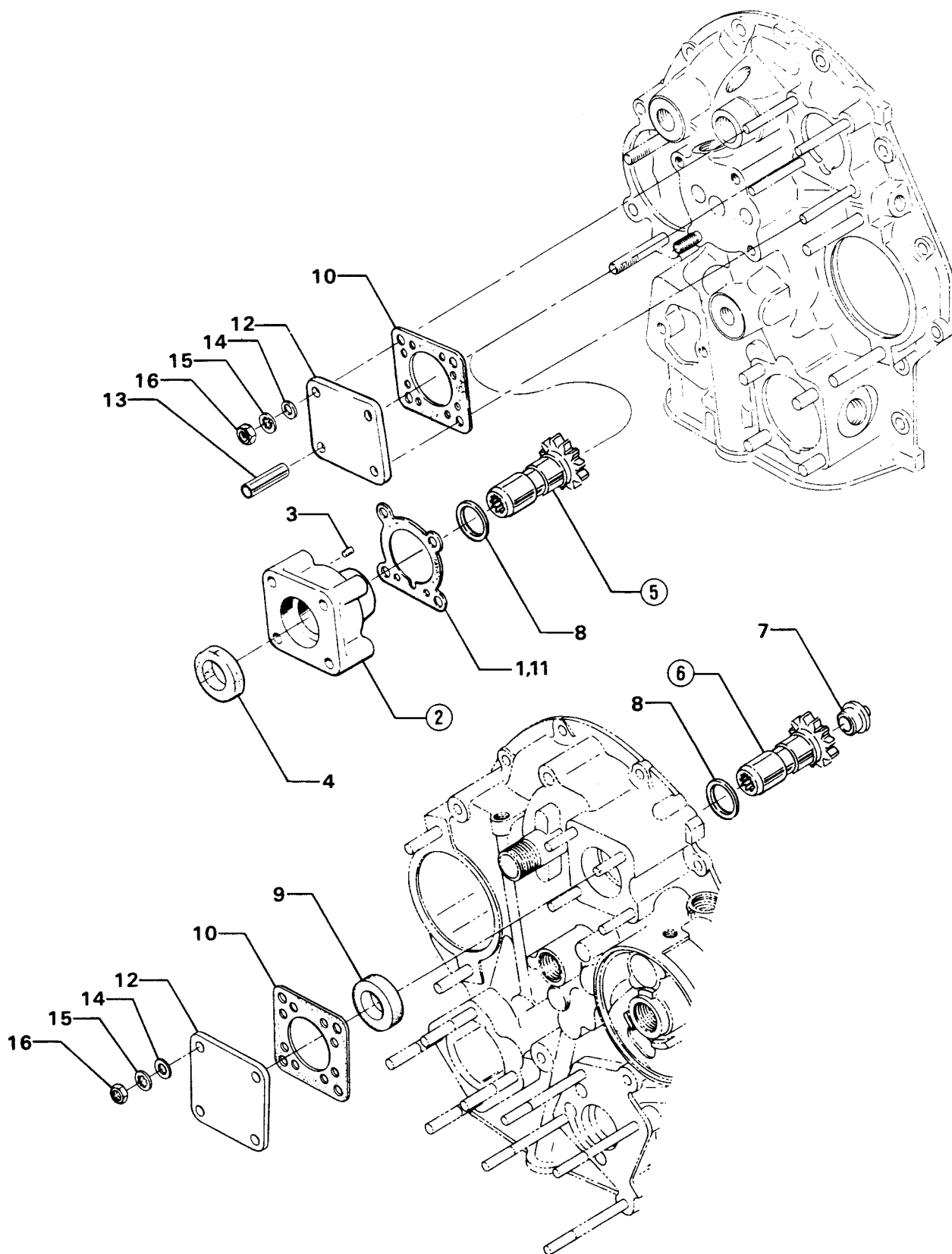
Williamsport Plant

ACCESSORY HOUSING AND RELATED PARTS
VACUUM PUMP DRIVES AND COVERS

FIG. REF. 14	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	61183	GASKET, Accessory adapter		1	1	1		1		1	1	1		1	1	1	1	1	1	1	1	1
2	61098	ADAPTER ASSY., Vacuum pump		1	1	1		1		1	1	1		1	1	1	1	1	1	1	1	1
3	STD-1774	PIN, 1/8 dia. x 1/4 long		1	1	1		1		1	1	1		1	1	1	1	1	1	1	1	1
4	STD-2217	OIL SEAL, 7/8 I.D. x 1-1/2 O.D. x 5/16 wide																				
				1	1	1		1		1	1	1		1	1	1	1	1	1	1	1	1
5	72970	GEAR ASSY., Vacuum pump driven		1	1	1		1		1	1	1		1	1	1	1	1	1	1	1	1
6	LW-10305	GEAR ASSY., Accessory driven					1						1									
7	61166	THRUST BUTTON					1						1									
8	71596	WASHER, Accessory driven gear		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
9	STD-2217	OIL SEAL, 7/8 I.D. x 1-1/2 O.D. x 5/16 wide											1									
							1						1									
10	8313	GASKET, Vacuum pump		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
11	61183 *	GASKET, Accessory adapter		1	1	1			1		1	1		1			1	1	1	1	1	1
12	60430	COVER, Vacuum pump	1																			
13	68593 * *	SPACER, Vacuum pump stud		4	4	4			4		4	4		4			4	4	4	4	4	4
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																			

* This gasket is fashioned to fit between P/N 61098 adapter assy. and accessory housing.

* * Required when no vacuum pump is used.

**Figure 14. VACUUM PUMP DRIVES AND COVERS**

Williamsport Plant

ACCESSORY HOUSING AND RELATED PARTS
VACUUM PUMP AND PROPELLER GOVERNOR (DUAL DRIVE)

FIG. REF. 15	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
1	61183	GASKET, Accessory adapter												1					
2	70348	DUAL DRIVE ASSY., Vacuum pump & prop. governor												1					
3	69725	ADAPTER ASSY., Dual access. drive												1					
4	25C-12	STUD, 1/4-20 x 1-1/2 long												1					
5	25C-29	STUD, 1/4-20 x 3-5/8 long												3					
6	66145	DOWEL, 1/4 dia. x 1/2 long												2					
7	69319	GEAR ASSY., Accessory drive												1					
8	61166	THRUST BUTTON, Vacuum pump gear												1					
9	71596	WASHER, Accessory driven gear												1					
10	69316	GEAR, Dual accessory drive												1					
11	69730	GEAR ASSY., Accessory idler												1					
12	69731	BUSHING, Accessory idler gear												1					
13	71596	WASHER, Accessory driven gear												2					
14	STD-2072	"O" RING, Static seal												1					
15	73231	GEAR ASSY., Vacuum pump driven												1					
16	69720	GASKET, Dual accessory drive adapter cover												1					
17	69719	COVER ASSY., Vacuum pump & prop. gov. adapter												1					
18	STD-2217	SEAL, 7/8 I.D. x 1-1/2 O.D. x 5/16 wide												1					
19	25C-12	STUD, 1/4-20 x 1-1/2 long												1					
20	25C-16	STUD, 1/4-20 x 2.00 long												1					
21	69318	SHAFT, Accessory idler gear												1					
22	STD-938	DOWEL, 3/32 dia. x 11/32 long												1					
23	STD-1339	PLUG, 1/16-27 pipe, Allen												1					
24	1102	PLUG, 1/8-27 pipe, Allen												1					
25	STD-1774	PIN, 1/8 dia. x 1/4 long												1					
26	STD-8	WASHER, 1/4 plain												2					
27	STD-160	WASHER, 1/4 lock, internal teeth												2					
28	STD-1411	NUT, 1/4-20 plain												2					
29	STD-8	WASHER, 1/4 plain												4					
30	STD-160	WASHER, 1/4 lock, internal teeth												4					
31	69320	CAPSCREW, 1/4-20 x 2-23/32 long, socket hd.												3					
32	STD-1411	NUT, 1/4-20 plain												1					
33	STD-696	WASHER, 17/64 I.D. x 1/2 O.D. x 1/32 thick												AR					
34	71023	BRACE, Dual drive, vac. pump & prop. gov. support												1					
35	STD-160	WASHER, 1/4 lock, internal teeth												1					
36	LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. hd.												1					
37	69827	GASKET, Governor spacer												1					
38	69737	SPACER, Governor												1					

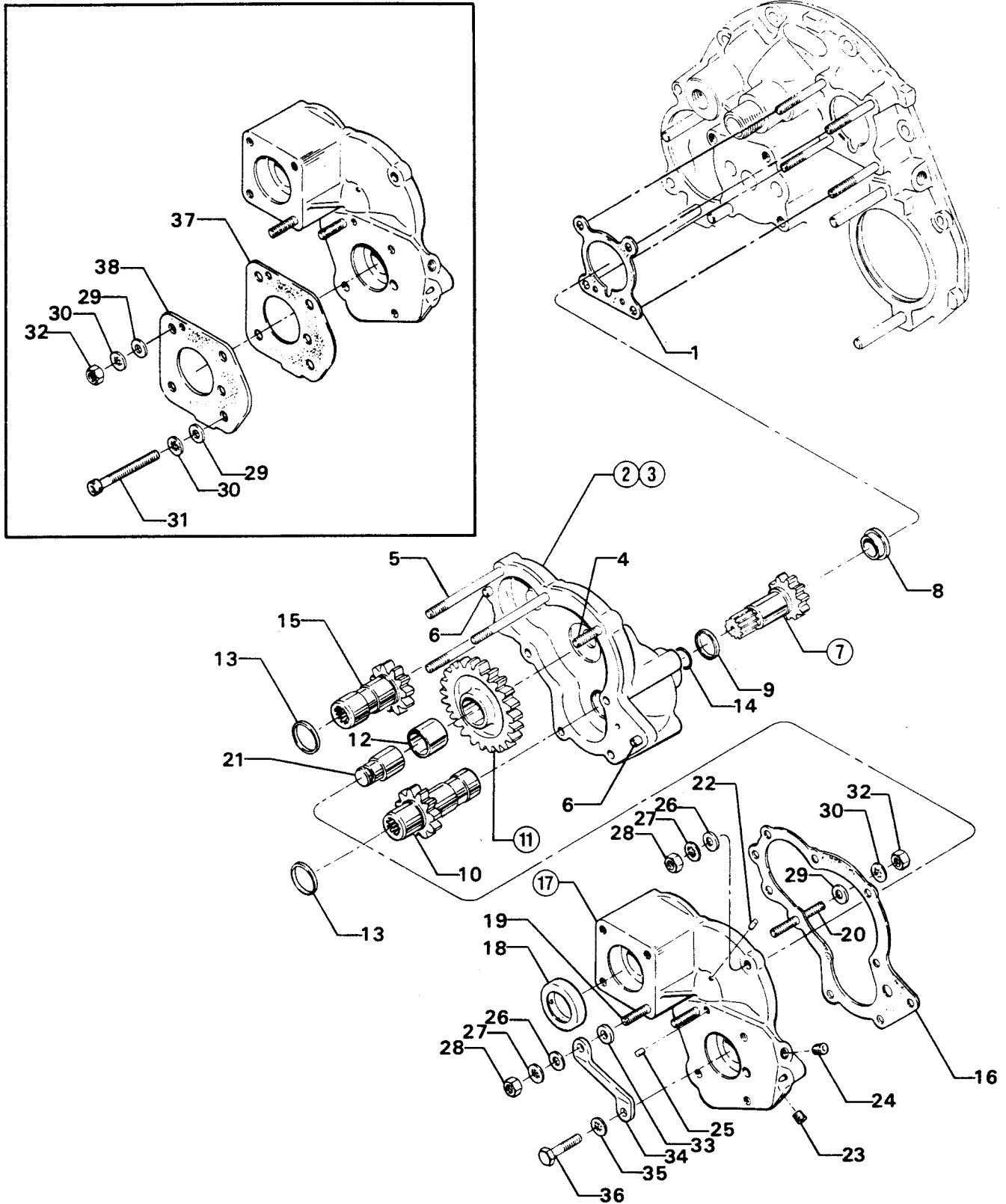


Figure 15. VACUUM PUMP AND PROPELLER GOVERNOR (DUAL DRIVE)

Williamsport Plant

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	B 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													1								
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)													1								
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													4								
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													4								
9	STD-1410	NUT, 5/16-18 plain													4								
10	1691-C	GASKET, Fuel pump													1								
11	60431	COVER, Fuel pump													1								
12	STD-35	WASHER, 5/16 plain													4								
13	STD-475	WASHER, 5/16 lock, internal teeth													4								
14	STD-1410	NUT, 5/16-18 plain													4								
15	74070 *	ELBOW, 3/8 tubing, adj. 45º		1	1	1	1	1	1	1	1	1	1	1									
	LW-16562 *	NIPPLE, 3/8 flared tube to 9/16-18 str.																					
		thd.				1											1						
16	74070 * *	ELBOW, 3/8 tubing, adj. 45º															1						
17	72377 *	ELBOW, 3/8 pipe thd., 90º													1			1	1	1	1		
	72377 *	ELBOW, 3/8 pipe thd., 90º			2	2														2		2	2
18	75924	SHAFTGEAR ASSY., Fuel pump drive														1							
19	61166	THRUST BUTTON, Fuel pump gear														1							
20	69164	GASKET, Fuel pump adapter														1							
21	69159	ADAPTER ASSY., Fuel pump drive														1							
22	STD-1774	PIN, 1/8 dia. x 1/4 long														1							
23	STD-213	SEAL, Oil, 3/4 I.D. x 1-3/8 O.D. x																					
		5/16 wide														1							

* Assemble in fuel pump outlet.

* * Assemble in fuel pump inlet (horizontal).

★ Assemble in fuel pump inlet and outlet.

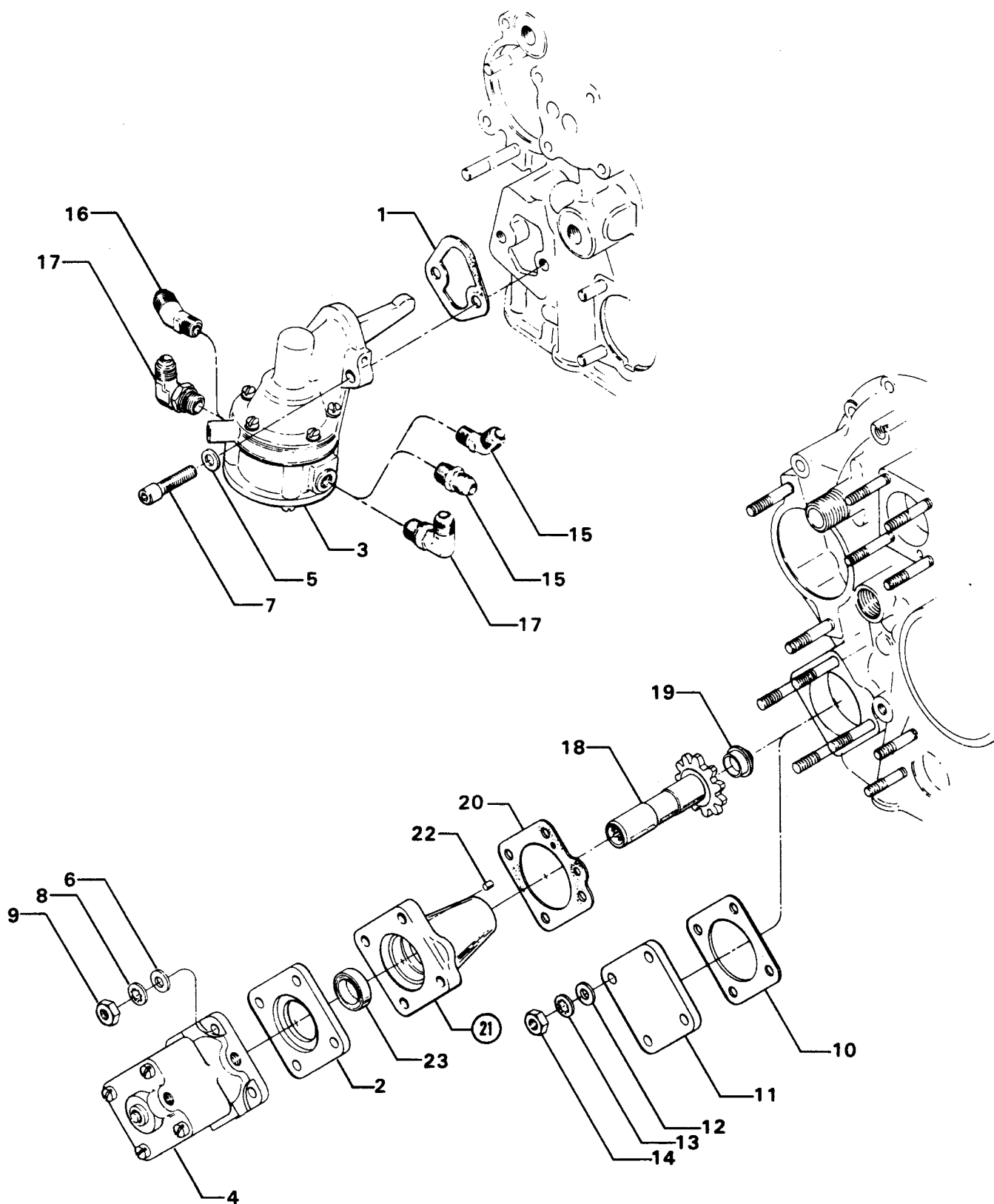


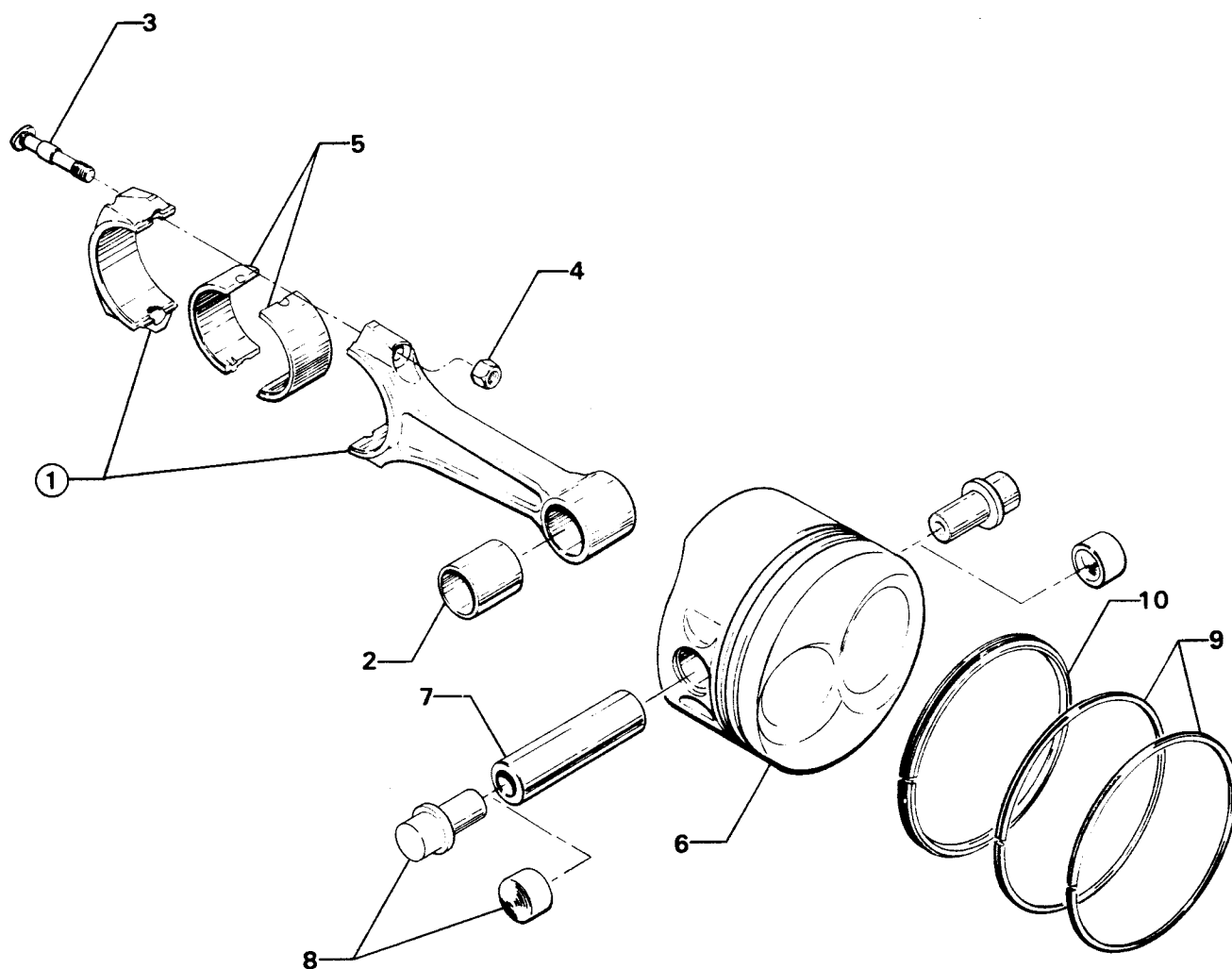
Figure 16. FUEL PUMPS AND FUEL PUMP COVERS

Williamsport Plant

CYLINDER, PISTON AND VALVE TRAIN
CONNECTING ROD, PISTON AND RING ASSEMBLIES

FIG. REF. 17	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
1	LW-11750-S	CONNECTING ROD ASSEMBLY																			
	LW-19332-S *	CONNECTING ROD ASSEMBLY		4	4			4	4		4	4									
	77450-S	CONNECTING ROD ASSEMBLY				4	4			4								4	4	4	
2	LW-13923	BUSHING, Connecting rod, upper	4																		
3	75060 ★	BOLT, Connecting rod				8	8			8								8	8	8	
	75061 ●	BOLT, Connecting rod				8	8			8								8	8	8	
	LW-12596 *	BOLT, Connecting rod		8	8			8	8		8	8									
4	LW-12186	NUT, Connecting rod bolt	8																		
5	74309 *	BEARING, Connecting rod		8	8			8	8		8	8									
	76394 *	BEARING, Connecting rod (alternate)		8	8			8	8		8	8									
	18N19391 *	BEARING, Connecting rod (alternate)		8	8			8	8		8	8									
	LW-13212	BEARING, Connecting rod				8	8			8								8	8	8	
	LW-13209	BEARING, Connecting rod (alternate)				8	8			8								8	8	8	
	LW-16143	BEARING, Connecting rod (alternate)				8	8			8								8	8	8	
	LW-13521	BEARING, Connecting rod										8	8	8	8	8	8				
	LW-13522	BEARING, Connecting rod (alternate)										8	8	8	8	8	8				
	LW-16048	BEARING, Connecting rod (alternate)										8	8	8	8	8	8				
6	75089	PISTON, Compression ratio 8.50:1											4	4	4	4	4	4			
	LW-10207-S	PISTON, Compression ratio 8.70:1		4	4	4	4	4	4	4	4	4						4	4	4	
7	LW-14077 * *	PIN, Piston				4									4						
	LW-14078	PIN, Piston	4																		
8	LW-11775	PLUG, Piston pin, piloted				8									8						
	60828	PLUG, Piston pin	8																		
9	74241	RING, Piston, compression	8																		
10	73857	RING, Piston, oil regulating	4																		

- * Large journal (2.25 dia.) connecting rod.
- ** Receives a P/N LW-11775 piloted piston pin plug.
- ★ Stretch bolt, machined on both ends.
- Torque bolt.

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

Williamsport Plant

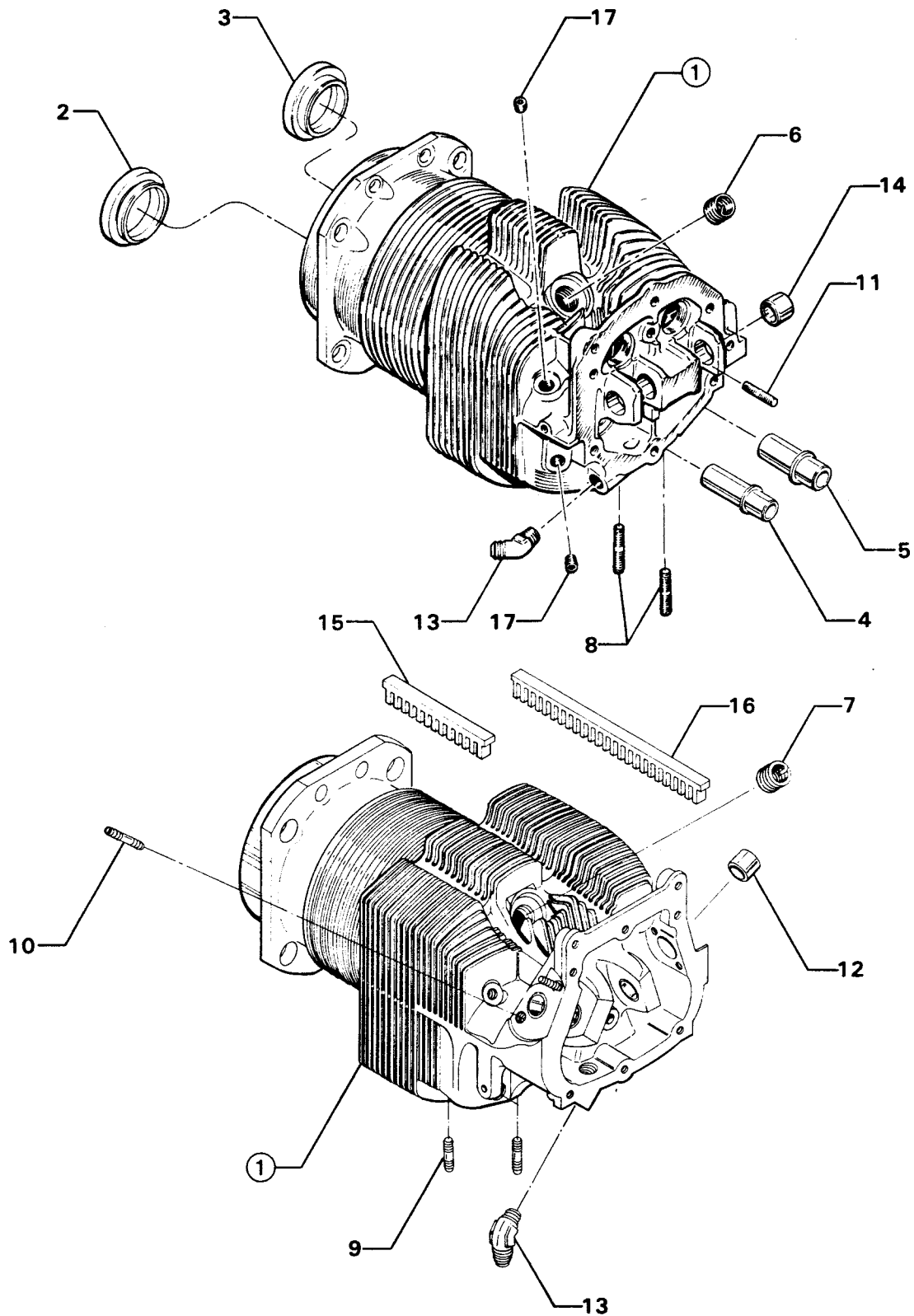
CYLINDER, PISTON AND VALVE TRAIN
CYLINDER ASSEMBLY

FIG. REF. 18	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
1	LW-12427	CYLINDER AND HEAD ASSY., Nitrided												4	4	4	4	4	4
	LW-12988 *	CYLINDER AND HEAD ASSY., Nitrided				4							4						
	LW-12993	CYLINDER AND HEAD ASSY., Nitrided		4	4	4	4	4	4	4	4	4	4						4
2	72057	SEAT, Intake valve												4	4	4	4	4	4
	LW-12688	SEAT, Intake valve		4	4	4	4	4	4	4	4	4	4						4
3	72058	SEAT, Exhaust valve												4	4	4	4	4	4
	16T19468	SEAT, Exhaust valve		4	4	4	4	4	4	4	4	4	4						4
4	61681	GUIDE, Valve, intake												4	4	4	4	4	4
	66713	GUIDE, Valve, intake		4	4	4	4	4	4	4	4	4	4						4
5	74230	GUIDE, Valve, exhaust												4	4	4	4	4	4
	72897	GUIDE, Valve, exhaust		4	4	4	4	4	4	4	4	4	4						4
	75838	GUIDE, Valve, exhaust (ni-resist)				4							4						
6	66796	INSERT, Spark plug 18-1.5MM	8																
	69260 *	INSERT, Spark plug (long reach)				8							8						
7	STD-1872	INSERT, 1/8-27 Helicoil, taper pipe																	
		thd.	8																
8	31C-12	STUD, 5/16-18 x 1-1/2 long	8																
9	31C-13 *	STUD, 5/16-18 x 1-5/8 long				8							8						
10	25C-8	STUD, 1/4-20 x 1.00 long		16	16	16	16	16	16	16	16	16	16						16
11	25C-9	STUD, 1/4-20 x 1-1/8 long												4	4	4	4	4	4
12	66670	BUSHING, Rocker shaft, inner		16	16	16	16	16	16	16	16	16	16						16
13	MS20823-6D	ELBOW, 3/8 flared tube, 45°	4																
14	66610	BUSHING, Rocker shaft												16	16	16	16	16	16
15	72343	STABILIZER, Cyl. head fins, 15 teeth		4	4	4	4	4	4	4	4	4	4						4
16	72344	STABILIZER, Cyl. head fins, 26 teeth		4	4	4	4	4	4	4	4	4	4						4
17	1102 * *	PLUG, 1/8-27 NPT, Allen	4																

* Cylinder Assembly employing long reach spark plugs.

* * Assemble in cylinder head.

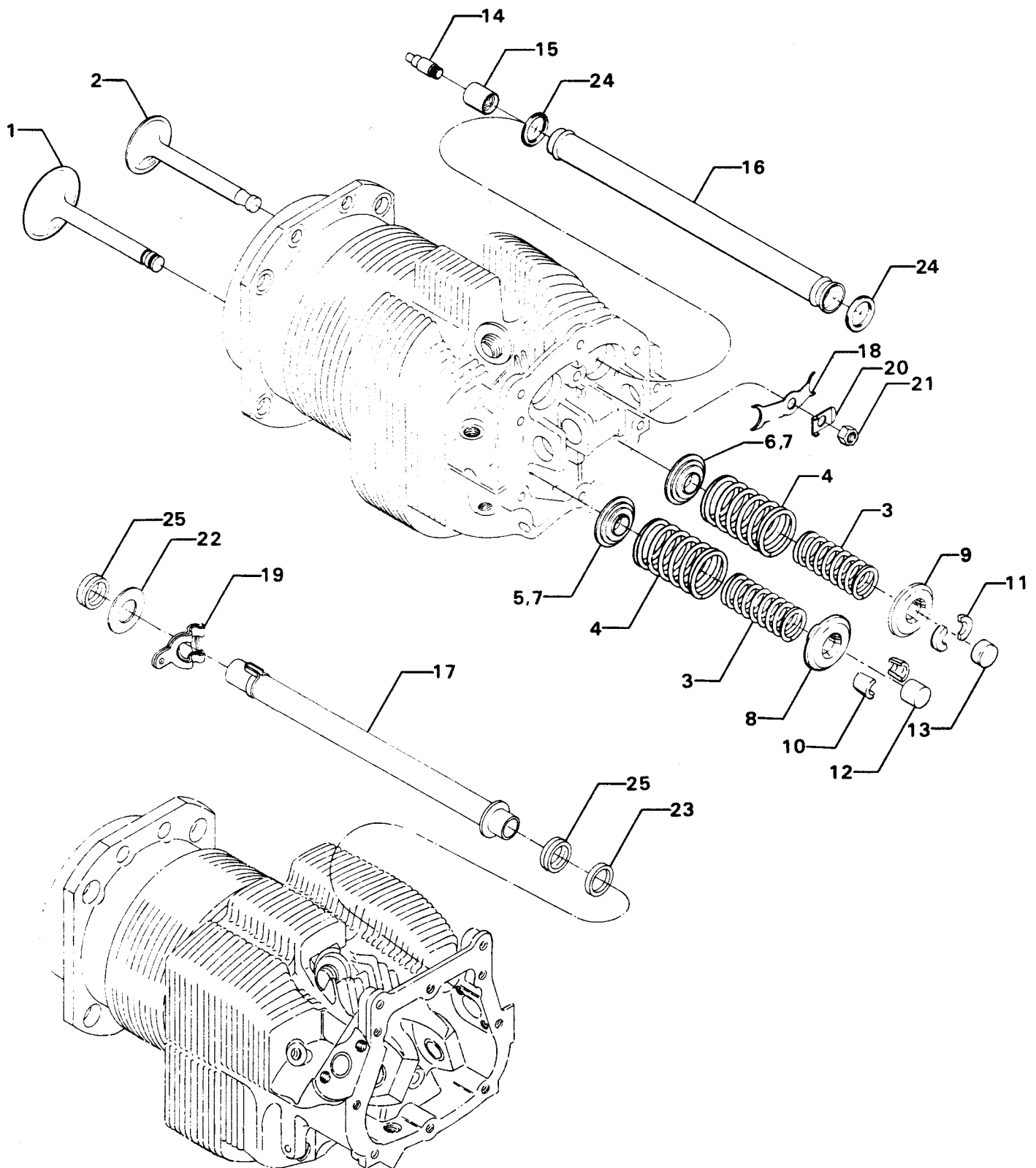
Williamsport Plant

**Figure 18. CYLINDER ASSEMBLY**

Williamsport Plant

CYLINDER, PISTON AND VALVE TRAIN
VALVE ASSEMBLY

FIG. REF. 19	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																		AIO-360		
				IO-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 4 A	A 1 A	A 1 B	B 1 B		
1	73938	VALVE, Intake												4	4	4	4	4	4					
	LW-13622	VALVE, Intake		4	4	4	4	4	4	4	4	4	4							4	4	4		
2	LW-19001	VALVE, Exhaust (rotator type)												4	4	4	4	4	4					
	LW-16740	VALVE, Exhaust (rotator type)		4	4	4	4	4	4	4	4	4	4							4	4	4		
3	LW-11795	SPRING, Valve, inner												8	8	8	8	8	8					
	LW-11797	SPRING, Valve, inner		8	8	8	8	8	8	8	8	8	8							8	8	8		
4	LW-11800	SPRING, Valve, outer												8	8	8	8	8	8					
	LW-11796	SPRING, Valve, outer		8	8	8	8	8	8	8	8	8	8							8	8	8		
5	65441	SEAT, Valve spring, lower intake												4	4	4	4	4	4					
6	LW-13323	SEAT, Valve spring, lower exhaust												4	4	4	4	4	4					
7	LW-13322	SEAT, Valve spring, lower intake & exh.		8	8	8	8	8	8	8	8	8	8							8	8	8		
8	LW-10077	SEAT, Valve spring, upper intake												4	4	4	4	4	4					
	69532	SEAT, Valve spring, upper intake		4	4	4	4	4	4	4	4	4	4							4	4	4		
9	LW-16475	SEAT, Valve spring, upper exhaust																						
		(rotator type)	4																					
10	60009	KEY, Valve, intake												8	8	8	8	8	8					
	72050	KEY, Valve, intake		8	8	8	8	8	8	8	8	8	8							8	8	8		
11	17C21191	KEY, Valve, exhaust (rotator type)	8																					
12	62388	CAP, Valve stem, intake		4	4	4	4	4	4	4	4	4	4							4	4	4		
13	17C19386	CAP, Valve stem, exhaust (rotator type)	4																					
14	78290	PLUNGER ASSY., Hydraulic tappet	8																					
15	78524	SOCKET, Push rod, hydraulic tappet	8																					
16	LW-11485	TUBE, Push rod shroud												8	8	8	8	8	8					
17	72255	SHROUD TUBE ASSY., Push rod		8	8	8	8	8	8	8	8	8	8							8	8	8		
18	LW-14995	SPRING, Shroud tube												4	4	4	4	4	4					
19	LW-13077	SPRING, Shroud tube		16	16	16	16	16	16	16	16	16	16							16	16	16		
20	LW-12272	LOCKPLATE, Shroud tube												4	4	4	4	4	4					
21	STD-1411	NUT, 1/4-20 plain												4	4	4	4	4	4					
22	66728	WASHER, 25/32 I.D. x 1-1/4 O.D. x .																						
		1/32 thick		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR							AR	AR	AR		
23	61503	SLEEVE, Shroud tube seal		8	8	8	8	8	8	8	8	8	8							8	8	8		
24	70310	SEAL, Shroud tube												8	8	8	8	8	8					
25	LW-18661	SEAL, Shroud tube (green)		16	16	16	16	16	16	16	16	16	16	8	8	8	8	8	8	16	16	16		

**Figure 19. VALVE ASSEMBLY**

Williamsport Plant

CYLINDER, PISTON AND VALVE TRAIN
CYLINDER RELATED PARTS

FIG. REF. 20	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	73434 *	ROD ASSY., Push (A total of 8 req'd.)												AR	AR	AR	AR	AR	AR	AR			
	15F19957-35 *	ROD ASSY., Push (A total of 8 req'd.)												AR	AR	AR	AR	AR	AR	AR			
	15F19957-36 *	ROD ASSY., Push (A total of 8 req'd.)												AR	AR	AR	AR	AR	AR	AR			
	73437 *	ROD ASSY., Push (A total of 8 req'd.)												AR	AR	AR	AR	AR	AR	AR			
	73455 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73456 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	15F19957-57 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73458 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73555 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73556 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73557 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
	73558 *	ROD ASSY., Push (A total of 8 req'd.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR								AR	AR	AR
2	17F19353	ROCKER ASSY., Valve, intake & exh.												8	8	8	8	8	8	8			
	71266	ROCKER ASSY., Valve, intake		4	4	4	4	4	4	4	4	4	4								4	4	4
3	74637	BUSHING, Valve rocker, int. & exh.												8	8	8	8	8	8	8			
	67114	BUSHING, Valve rocker, intake		4	4	4	4	4	4	4	4	4	4								4	4	4
4	74390	ROCKER ASSY., Valve, exhaust		4	4	4	4	4	4	4	4	4	4								4	4	4
5	74389	BUSHING, Valve rocker, exhaust		4	4	4	4	4	4	4	4	4	4								4	4	4
6	71549	WASHER, Valve rocker, thrust		8	8	8	8	8	8	8	8	8	8								8	8	8
7	LW-13790	SHAFT, Valve rocker												4	4	4	4	4	4	4			
	72626	SHAFT, Valve rocker		8	8	8	8	8	8	8	8	8	8								8	8	8
8	LW-12892	THRUST BUTTON, Rocker shaft												8	8	8	8	8	8	8			
9	66732	GASKET, Valve rocker shaft cover		8	8	8	8	8	8	8	8	8	8								8	8	8
10	72710	COVER, Valve rocker shaft		8	8	8	8	8	8	8	8	8	8								8	8	8
11	STD-160	WASHER, 1/4 lock, internal teeth		16	16	16	16	16	16	16	16	16	16								16	16	16
12	STD-1411	NUT, 1/4-20 plain		16	16	16	16	16	16	16	16	16	16								16	16	16
13	75906	GASKET, Rocker box cover												4	4	4	4	4	4	4			
14	67193	GASKET, Rocker box cover		4	4	4	4	4	4	4	4	4	4								4	4	4
15	61247	COVER, Rocker box												4	4	4	4	4	4	4			
16	68795	COVER ASSY., Rocker box		4	4	4	4	4	4	4	4	4	4								4	4	4
17	STD-1925	SCREW, 1/4-20 x 5/8 long, pan. hd.												24	24	24	24	24	24	24			
	STD-1925	SCREW, 1/4-20 x 5/8 long, pan. hd.		32	32	32	32	32	32	32	32	32	32								32	32	32
18	71481	RING, Oil seal, 3/32 dia. section x 4-27/32 I.D.	4																				
19	74887	SPACER, 33/64 I.D. x 7/8 O.D. x 3/8 thick	2																				
20	383-B	NUT, 3/8-24 plain	16																				
21	STD-2090	NUT, 1/2-20 plain	18																				
22	74494	PLATE, Spark plug reach caution				4							4										
23	75118	GASKET, Exhaust flange (cooper)		8	8	8	8	8	8	8	8	8	8							8	8	8	8
	LW-19296	GASKET, Exhaust flange												4	4	4	4	4	4	4			
24	61260	FLANGE, Exhaust												4	4	4	4	4	4	4			
	67195	FLANGE, Exhaust		4	4	4	4	4		4	4	4									4	4	4
25	STD-35	WASHER, 5/16 plain	8																				
26	STD-475	WASHER, 5/16 lock, internal teeth	8																				
27	STD-1410	NUT, 5/16-18 plain	8																				

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

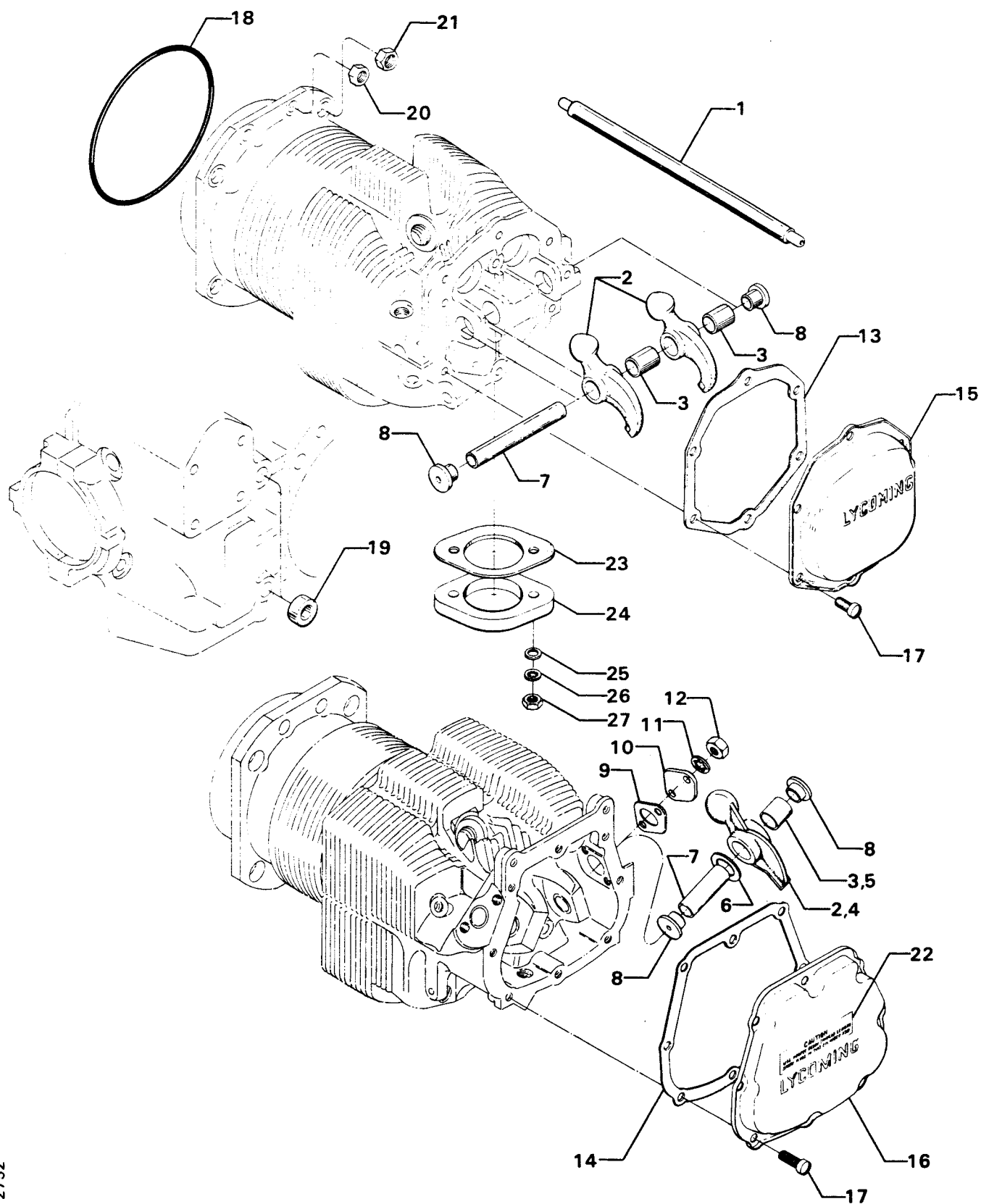


Figure 20. CYLINDER RELATED PARTS

Williamsport Plant

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	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	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	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	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	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	1
	75338	BAFFLE ASSY., Intercylinder		1	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	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	4
13	STD-670	NUT, No. 10-32 self-locking		4	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	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														

Williamsport Plant

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 6	B 4 A
	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
	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.

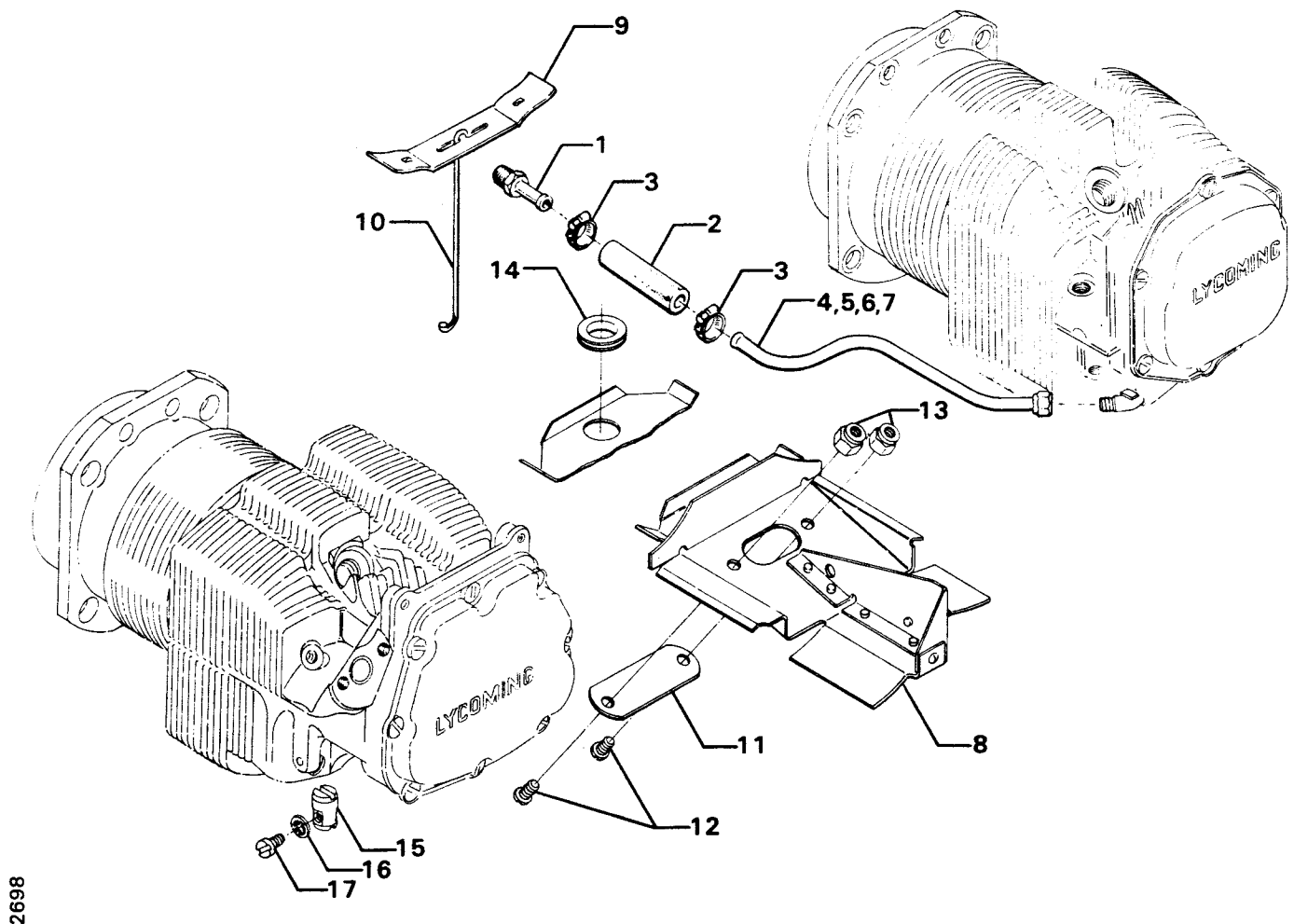


Figure 21. CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES

Williamsport Plant

IGNITION SYSTEM
MAGNETOS AND MAGNETO DRIVES (IO-360-A)

FIG. REF. 22	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																AIO-360			
				IO-360																	A 1 A	A 1 B	B 1 B
				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			
1	61665	GEAR, Magneto, impulse coupling			1	1			1	1		1											
2	68C19622	GEAR, Magneto			1	1			1	1		1											
	68C19622	GEAR, Magneto		2	2	2		2			2												
3	STD-713	COTTER PIN, 3/32 x 3/4 long		2	2	2		2	2	2	2	2											
4	62224	GASKET, Magneto adapter			1	1			1	1		1											
	62224	GASKET, Magneto adapter		2							2												
	62224	GASKET, Magneto adapter & magneto							3														
5	LW-12706	ADAPTER, Magneto, impulse coupling			1	1			1	1		1											
6	LW-12681	GASKET, Magneto		2	2	2		2	2	2		2											
		— BENDIX —																					
7	LW-163045-3	MAGNETO, S4LN-204		1																			
	LW-163005-2	MAGNETO, S4LN-200, retard breaker		1																			
	LW-163045-3	MAGNETO, S4LN-204		1							1												
	LW-163005-11	MAGNETO, S4LN-200, retard breaker		1							1												
	LW-163045-6 *	MAGNETO, S4LN-204									1												
	LW-163005-11	MAGNETO, S4LN-200, retard breaker									1												
	LW-165045-3	MAGNETO, S4LN-204							1														
	LW-51360-55 * *	MAGNETO, S4LN-21, impulse coupling							1														
	LW-349305-1	MAGNETO, S4LN-1209			1	1				1		1											
	LW-349365-3	MAGNETO, S4LN-1227, imp. coupling			1	1				1		1											
	LW-349305-1	MAGNETO, S4LN-1209			1	1				1		1											
	LW-349365-9	MAGNETO, S4LN-1227, imp. coupling			1	1				1		1											
	LW-349305-1	MAGNETO, S4LN-1209						1															
	LW-349285-7	MAGNETO, S4LN-1208, retard breaker						1															
		— SLICK —																					
8	66HP-0SANN	MAGNETO, (Right), Model No. 4270		1																			
	66HR25SANN	MAGNETO, (Left), Model No. 4247		1																			
	66HP-0SAEN	MAGNETO, (Right), Model No. 4242									1												
	66HR15SANN	MAGNETO, (Left), Model No. 4245									1												
	66HP-0SANN	MAGNETO, (Right), Model No. 4270			1	1				1		1											
	66HC25SFNN	MAGNETO, (Left), Model No. 4273			1	1				1		1											
	66HP-0SANN	MAGNETO, (Right), Model No. 4270		1	1	1		1		1	1												
	66HR15SANN	MAGNETO, (Left), Model No. 4245		1	1	1		1		1	1												
	66HP-0SANN	MAGNETO, (Right), Model No. 4270			1	1			1	1		1											
	66HC15SFNN	MAGNETO, (Left), Model No. 4272			1	1			1	1		1											
9	66M19385	CLAMP, Magneto		4	4	4		4	4	4	4	4											
10	76961	CLAMP, Magneto		4	4	4		4	4	4	4	4											
11	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick		4	4	4		4	4	4	4	4											
12	STD-475	WASHER, 5/16 lock, internal teeth		4	4	4		4	4	4	4	4											
13	STD-1410	NUT, 5/16-18 plain		4	4	4		4	4	4	4	4											
14	LW-52305-1	KIT ASSY., Magneto ground terminal							1														
	LW-157209	KIT, Magneto ground terminal							1														
	LW-157209	KIT, Magneto ground terminal		2	2						2												
	LW-157208	KIT, Magneto retard terminal		1	1						1												

- * Magneto w/ electric tachometer pickup.
 ** Magneto w/ feed-thru capacitor.

Williamsport Plant

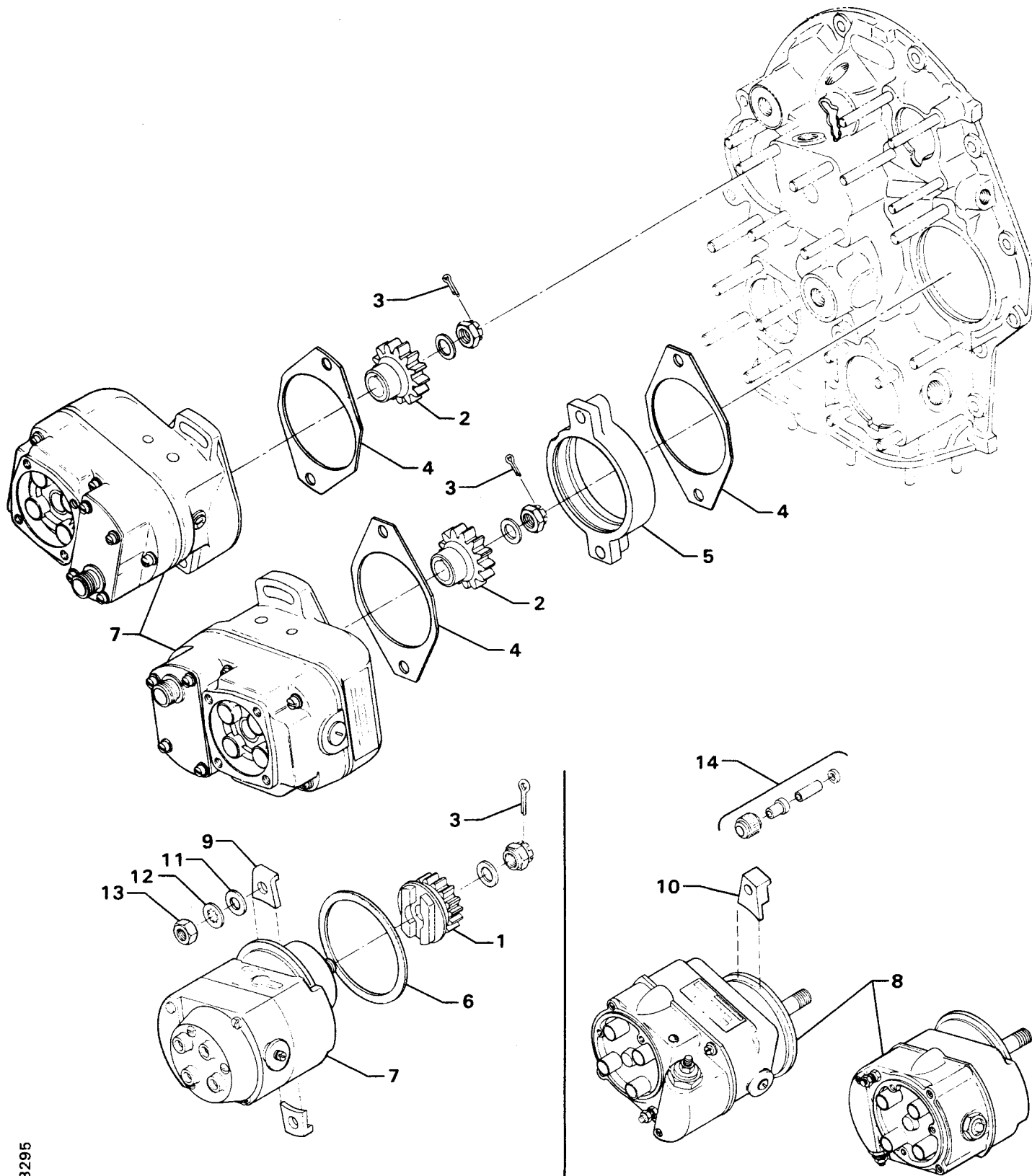


Figure 22. MAGNETOS AND MAGNETO DRIVES (IO-360-A)

Williamsport Plant

IGNITION SYSTEM

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

FIG. REF. 23	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 6	B 4 A
1	67P20400	HARNESS, (Right), Slick No. M-2976			1	1		1	1	1		1							
	67P20403	HARNESS, (Left), Slick No. M-2977			1	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							
	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.

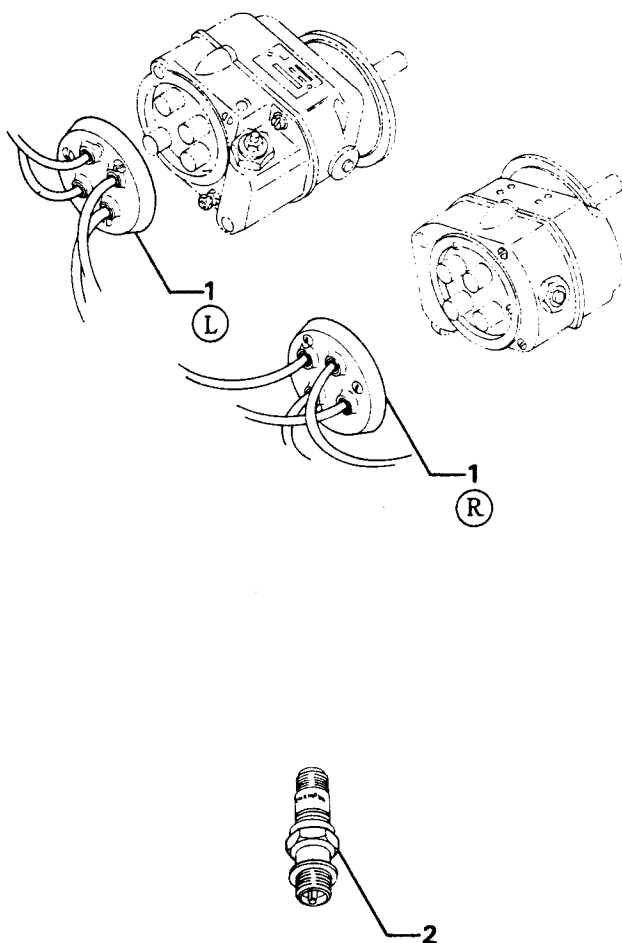
** See page 4-4 for a breakdown of individual parts contained in the magneto and harness attaching parts bag. These parts to be attached by customer per engine line drawing included in each bag.

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	B 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.

Williamsport Plant

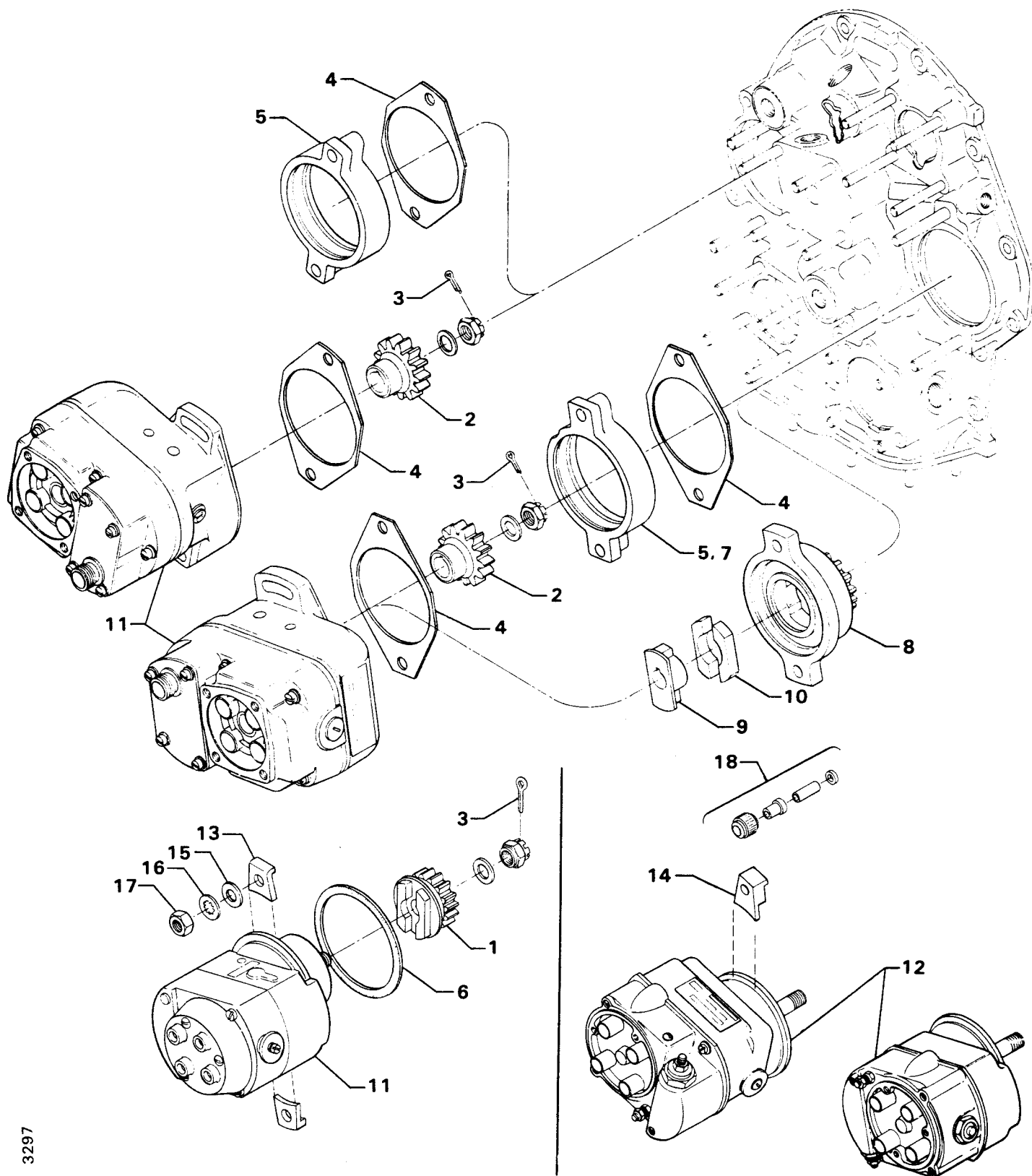


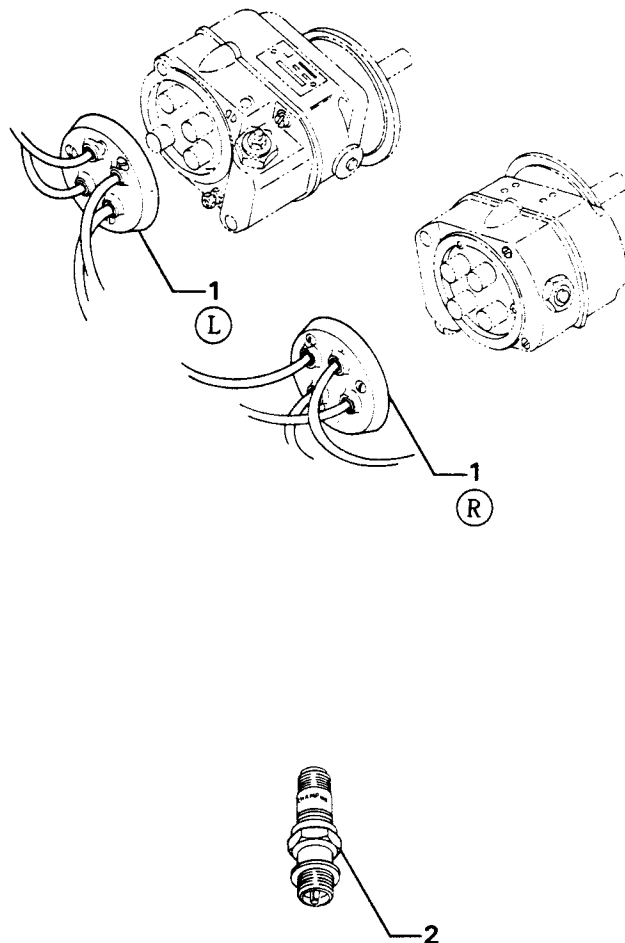
Figure 24. MAGNETOS AND MAGNETO DRIVES (IO-360-B)

Williamsport Plant

IGNITION SYSTEM
IGNITION HARNESSES, SPARK PLUGS AND ATTACHING HARDWARE (IO-360-B)

FIG. REF. 25	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								
	67P20401	HARNESS, (Left), Slick No. M-2975										1	1									
	67P20412	HARNESS, (Right), Slick No. M-4020												1	1							
	67P20413	HARNESS, (Left), Slick No. M-4019												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-4022												1	1							
	67P20419	HARNESS, (Left), Slick No. M-4021												1	1							
	67P20428	HARNESS, (Right), Slick No. M-2990											1	1	1	1						
	67P20429	HARNESS, (Left), Slick No. M-2989											1	1	1	1						
	67L20422	HARNESS, (Right), Slick No. M-4026												1	1							
	67L20423	HARNESS, (Left), Slick No. M-4025												1	1							
2	1182-B3 *	SPARK PLUG, Champion, (REM40E)											8	8	8	8	8	8				
	1182-F3 *	SPARK PLUG, Auburn (SR88)													8							
	1182-Q5 *	SPARK PLUG, Auburn (SR93)													8							
	01P19762-1-1 * *	BAG, Magneto harness attaching											1	1	1	1	1	1				
	01P19762-1-6 * *	BAG, Magneto harness attaching																1				
	01P19762-1-43 * *	BAG, Magneto harness attaching											1	1								
	01P19762-2-5 * *	BAG, Magneto harness attaching												1	1							
	01P19762-2-7 * *	BAG, Magneto harness attaching												1	1							
	01P19762-2-12 * *	BAG, Magneto harness attaching												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 4-8 for a breakdown of individual parts contained in the magneto & 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, 01P19762-1-43**

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)

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			
				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
1	61665	GEAR, Magneto, impulse coupling																	
	61665	GEAR, Magneto, impulse coupling																	
2	68C19622	GEAR, Magneto																	
	68C19622	GEAR, Magneto																	
3	STD-713	COTTER PIN, 3/32 x 3/4 long																	
4	62224	GASKET, Magneto adapter																	
	62224	GASKET, Magneto adapter																	
5	LW-12706	ADAPTER, Magneto, impulse coupling																	
	LW-12706	ADAPTER, Magneto, impulse coupling																	
6	LW-12681	GASKET, Magneto																	
		— BENDIX —																	
7	LW-349305-1	MAGNETO, S4LN-1209																	
	LW-349365-3	MAGNETO, S4LN-1227, imp. coupling																	
	LW-349305-1	MAGNETO, S4LN-1209																	
	LW-349365-9	MAGNETO, S4LN-1227, imp. coupling																	
	LW-349305-1	MAGNETO, S4LN-1209																	
	LW-349285-7	MAGNETO, S4LN-1208, retard breaker																	
	LW-349365-9	MAGNETO, S4LN-1227, imp. coupling																	
		— SLICK —																	
8	66HP-0SANN	MAGNETO, (Right), Model No. 4270																	
	66HR15SANN	MAGNETO, (Left), Model No. 4245																	
	66HC15SFNN	MAGNETO, (Right & Left), Model No. 4272																	
	66HP-0SANN	MAGNETO, (Right), Model No. 4270																	
	66HC25SFNN	MAGNETO, (Left), Model No. 4273																	
9	66M19385	CLAMP, Magneto																	
10	76961	CLAMP, Magneto																	
11	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick																	
12	STD-475	WASHER, 5/16 lock, internal teeth																	
13	STD-1410	NUT, 5/16-18 plain																	



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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	1
	67P20405	HARNESS, (Left), Slick																		1	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	1
	67L20423	HARNESS, (Left), Slick No. M-4025																			1	1
2	1182-D4 *	SPARK PLUG, Champion (RHM38E)																		8	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	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.

Williamsport Plant

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

The diagram illustrates the assembly of the ignition harness, spark plug, and attaching hardware. It shows two views of the harness, labeled 'L' and 'R', and a detailed view of the spark plug, labeled '2'.

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

Williamsport Plant

IGNITION SYSTEM

DUAL MAGNETOS AND MAGNETO DRIVES

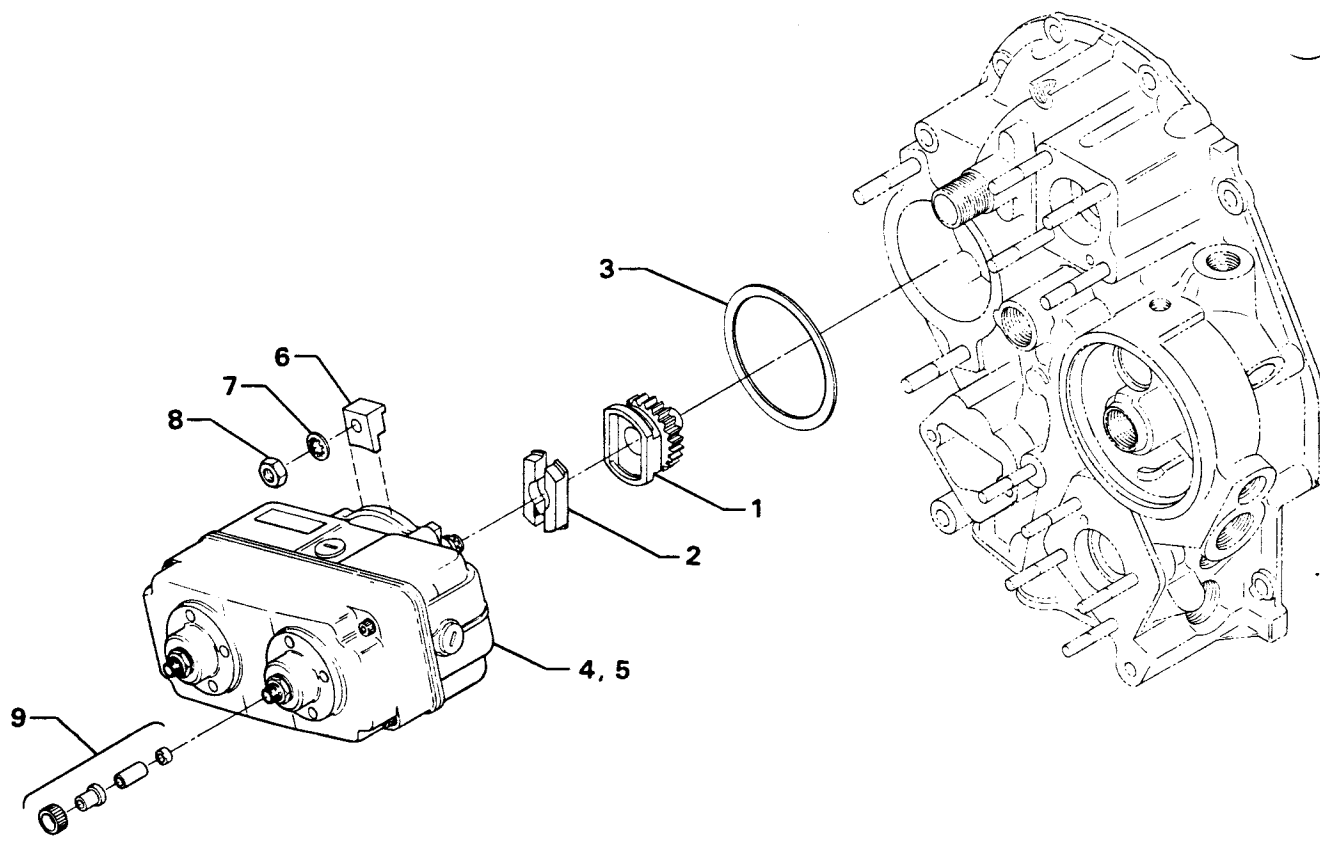
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Figure 28. DUAL MAGNETOS AND MAGNETO DRIVES

Williamsport Plant

IGNITION SYSTEM
 IGNITION HARNESSSES (DUAL), SPARK PLUGS AND ATTACHING HARDWARE

FIG. REF. 29	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	67H21450	HARNESS, Ignition (Bendix)					1						1									
	67H21452	HARNESS, Ignition (Bendix)					1															
	67H21456	HARNESS, Ignition (Bendix)											1									
2	1182-D4 *	SPARK PLUG, Champion (RHM38E)					8					8										
	1182-U5 *	SPARK PLUG, Champion (RHB32E)										8										
	01P21501-3-30 * *	BAG, Magneto harness attaching					1															
	01P21501-6-31 * *	BAG, Magneto harness attaching										1										
	01P21501-8-47 * *	BAG, Magneto harness attaching					1					1										

- * Item No. 2 spark plugs are used in current production only. Additional spark plugs are available for this engine. See latest edition of Service Instruction No. 1042 for complete listing of all approved spark plugs.
- ** See below 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 01P21501-3-30			P/N 01P21501-6-31		
Part No.	Part Name	Qty.	Part No.	Part Name	Qty.
LW-16266-10-75	CLAMP, 6 wire	1	LW-14875	BRACKET, Extension, 90°	1
LW-16266-25-25	CLAMP, 1 wire	5	LW-16266-10-63	CLAMP, 4 wire	1
LW-16266-25-75	CLAMP, 6 wire	1	STD-692	SCREW, No. 10-32 x 1/2 long	2
LW-16266-10-63	CLAMP, 4 wire	2	STD-670	NUT, No. 10-32 self-locking	2
71824	CLIP, 2 wire	3	LW-16266-10-75	CLAMP, Shroud tube	1
STD-1874	SCREW, 1/4-20 x 13/16 long	5	LW-16266-10-63	CLAMP, 4 wire	1
STD-8	WASHER, 1/4 plain	10	76734	ZIP STRAP	19
STD-670	NUT, No. 10-32 self-locking	2	STD-1874	SCREW, 1/4-20 x 13/16 long	5
STD-692	SCREW, No. 10-32 x 1/2 long	2	STD-8	WASHER, 1/4 plain	10
STD-28	WASHER, No. 10 plain	2	71824	CLIP, 2 wire	3
LW-14875	BRACKET, Extension, 90°	1	LW-16266-25-25	CLAMP, 1 wire	2
76734	ZIP STRAP	16			

P/N 01P21501-8-47		
Part No.	Part Name	Qty.
LW-16266-10-75	CLAMP, 6 wire	3
LW-16266-10-63	CLAMP, 4 wire	3
LW-14875	BRACKET, Extension, 90°	1
71824	CLIP, 2 wire	3
LW-16266-25-25	CLAMP, 1 wire	2
76734	ZIP STRAP	21
STD-692	SCREW, No. 10-32 x 1/2 long	3
STD-670	NUT, No. 10-32 self-locking	3
STD-1874	SCREW, 1/4-20 x 13/16 long	5
STD-8	WASHER, 1/4 plain	10

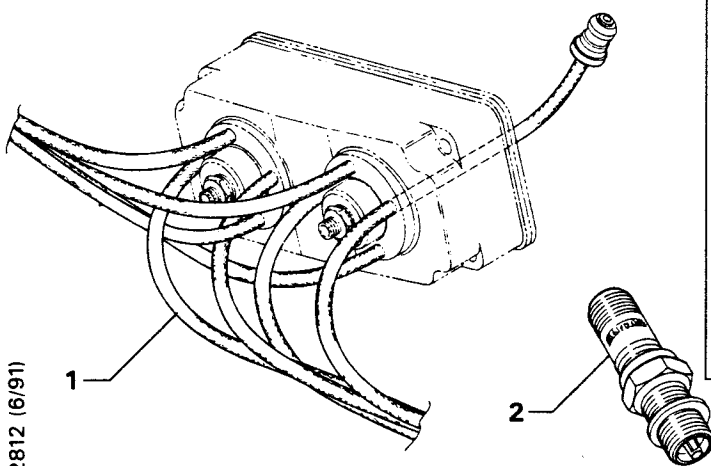


Figure 29. IGNITION HARNESSSES (DUAL), SPARK PLUGS AND ATTACHING HARDWARE

Williamsport Plant

ELECTRICAL SYSTEM
ALTERNATOR AND GENERATOR MOUNTING BRACKETS

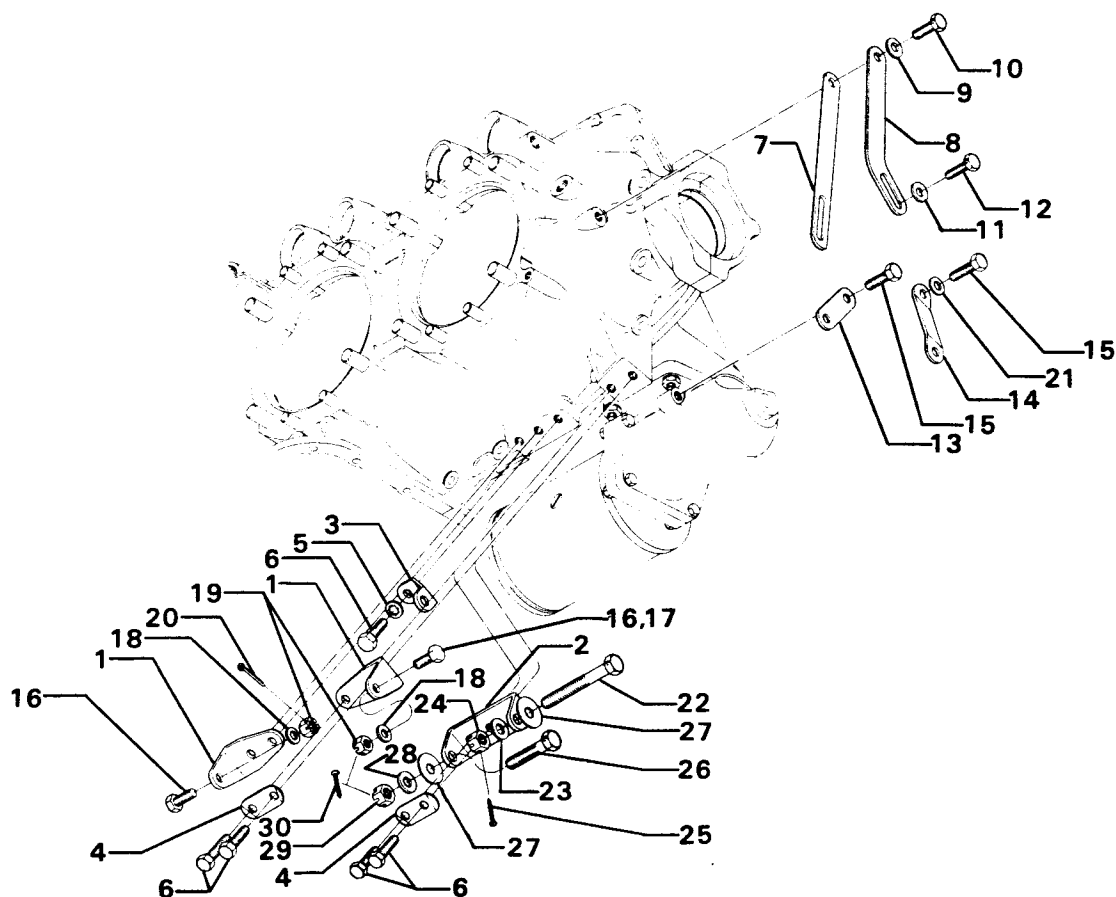
FIG. REF. 30	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																			
				IO-360															AIO-360				
				A 1 A	A 1 B	A 1 B 6	A 1 B 6 D	A 1 C	A 1 D	A 1 D 6	A 2 A	A 2 B	A 3 B 6 D	B 1 B	B 1 D	B 1 E	B 1 F	B 2 F	B 2 F 6	B 4 A	A 1 A	A 1 B	B 1 B
1	70419	BRACKET, Generator		2		2		2	2					2	2		2	2		2			
2	74324	BRACKET, Alternator		1	1			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			
				1	1		1	1						1	1		1	1		1			
7	76028	LINK, Generator adjusting		1								1											
8	LW-10729	LINK, Alternator adjusting			1	1	1		1			1											
	74325 *	LINK, Alternator adjusting		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	1	1	1	1	1	1	1	1
	75380 ★	LINK, Alternator adjusting		1	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	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																				

Williamsport Plant

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
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.

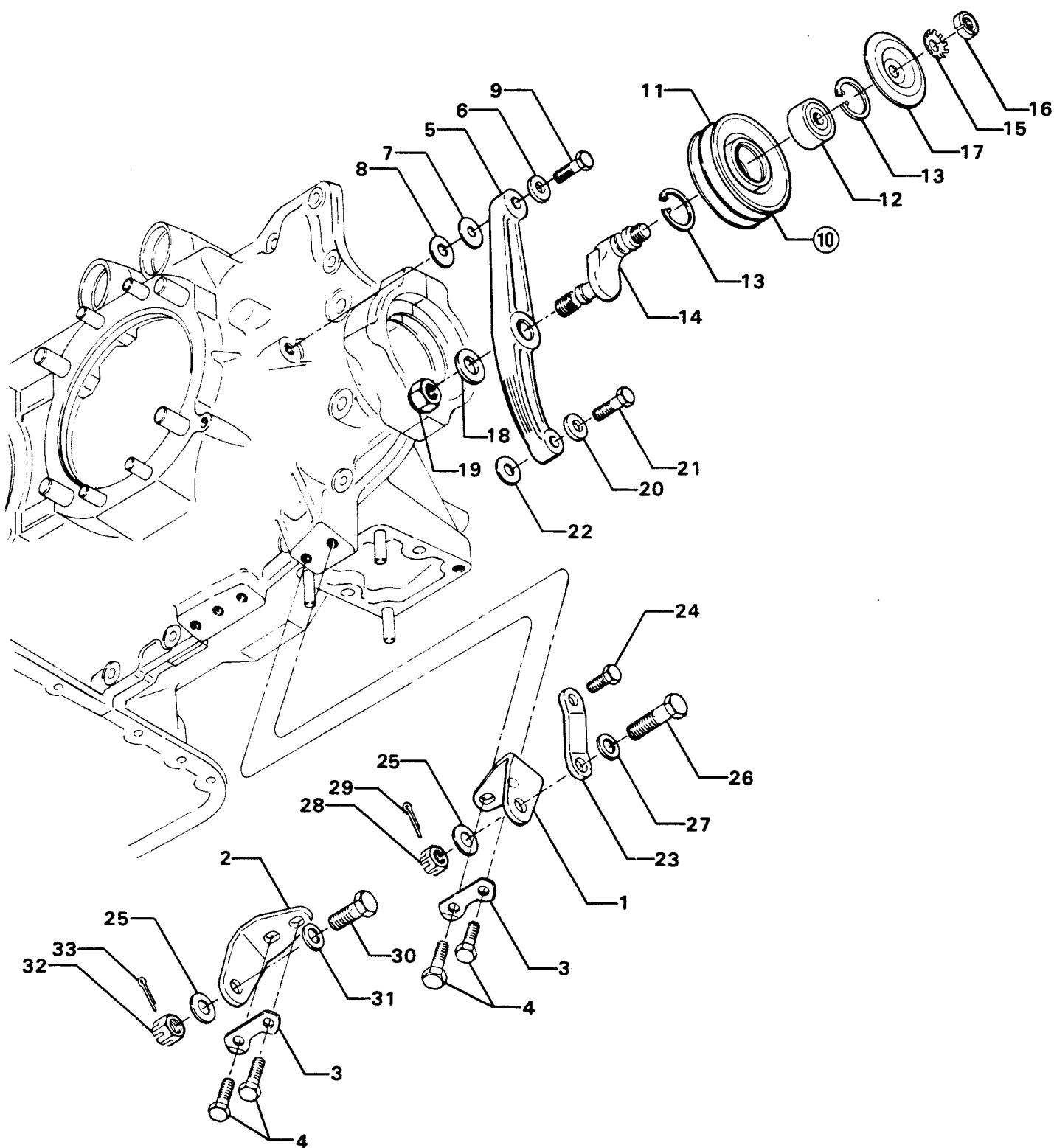

Figure 30. ALTERNATOR AND GENERATOR MOUNTING BRACKETS

Williamsport Plant

ELECTRICAL SYSTEM
100 AMP ALTERNATOR MOUNTING AND ATTACHING PARTS

FIG. REF. 31	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
1	LW-14141	BRACKET, Alternator, front				1													
2	LW-14142	BRACKET, Alternator, rear				1													
3	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing				2													
4	LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. hd.				4													
5	LW-11147	BRACKET, Alternator belt adjusting				1													
6	STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D.																	
		x 1/8 thick				1													
7	LW-14637 *	SHIM, 13/16 O.D. x 11/32 I.D. x .005																	
		thick				AR													
8	LW-14649 *	SHIM, 13/16 O.D. x 11/32 I.D. x .010																	
		thick				AR													
9	LW-31H1.22	BOLT, 5/16-18 x 1-7/32 long, hex. hd.,																	
		drilled				1													
10	LW-19265	PULLEY & SHAFT ASSY., Alternator																	
		dual belt adjusting				1													
11	76420	PULLEY, Alternator idler, dual				1													
12	78629	BALL BEARING, Double row, alt.																	
		idler pulley				1													
13	MS16625-1125	RING, Internal retaining, 1-1/4 dia.				2													
14	LW-19238	SHAFT, Alternator dual belt idler				1													
15	76768	LOCKWASHER, Alternator idler																	
		pulley bearing				1													
16	76769	LOCKNUT, Alt. idler pulley bearing				1													
17	LW-11635	SHIELD, Idler shaft				1													
18	STD-669	WASHER, 33/64 I.D. x 1.00 O.D. x 1/8																	
		thick				1													
19	STD-2221	NUT, 1/2-20 self-locking				1													
20	STD-1727	WASHER, Plain, 3/4 I.D. x 11/32 I.D. x																	
		1/8 thick				1													
21	LW-31H1.22	BOLT, 5/16-18 x 1-7/32 long, hex. hd.,																	
		drilled				1													
22	LW-14637 *	SHIM, 13/16 O.D. x 11/32 I.D. x .005																	
		thick				AR													
23	LW-10970	STRUT, Alternator support				1													
24	LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. hd.,																	
		drilled				1													
25	LW-14650 *	SHIM, 7/8 O.D. x 15/32 I.D. x .005 thick				AR													
26	AN7-14	BOLT, 7/16-20 UNF-3A x 1-19/32 long,																	
		dr. end				1													
27	STD-632	WASHER, 7/16 plain				AR													
28	AN310-7	NUT, 7/16 plain, slotted				1													
29	STD-761	PIN, Cotter, 3/32 dia. x 1.00 long				1													
30	AN7-12	BOLT, 7/16-20 UNF-3A x 1-11/32 long,																	
		dr. end				1													
31	STD-632	WASHER, 7/16 plain				AR													
32	AN310-7	NUT, 7/16-20 plain, slotted				1													
33	STD-761	PIN, Cotter, 3/32 dia. x 1.00 long				1													

* Shim as required for belt alignment between crankcase idler adjusting bracket, alternator and alternator bracket.

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

Williamsport Plant

ELECTRICAL SYSTEM
ALTERNATOR ASSEMBLY AND BELT

FIG. REF. 32	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				10-360													A10-360							
				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	74880	ALTERNATOR ASSY., 12 volt, 70 amp. (3.25:1 ratio)			1																			
2	74319	ALTERNATOR, (1100717)			1																			
3	74863	PULLEY, Alternator (3.25:1 ratio)			1																			
4	74878 *	FAN & BAFFLE ASSY., Alternator			1																			
5	76165	ALTERNATOR ASSY., 12 volt, 70 amp. (2.50:1 ratio)									1													
6	74319	ALTERNATOR, (1100717)									1													
7	76158	PULLEY, Alternator (2.50:1 ratio)									1													
8	74878 *	FAN & BAFFLE ASSY., Alternator									1													
9	78308	ALTERNATOR, (ALE-8406) 12 volt, 40 amp.		1	1								1					1		1	1	1	1	1
10	LW-14304	ALTERNATOR, (ALZ-8423) 12 volt, 50 amp.			1					1		1		1						1				
11	LW-18904	ALTERNATOR ASSY., 12 volt, 100 amp. (3.25:1 ratio)															1							
12	LW-18888	ALTERNATOR, (ALV-8512)															1							
13	76421	PULLEY, Alternator (3.25:1 ratio)															1							
14	LW-14351	ALTERNATOR ASSY., 12 volt, 60 amp. (3.25:1 ratio)									1													
15	LW-14313	ALTERNATOR, (ALY-8420LS)									1													
16	LW-10512	PULLEY, Alternator (3.25:1 ratio)									1													
17	LW-14371	ALTERNATOR ASSY., 12 volt, 60 amp. (3.25:1 ratio)		1	1	1	1		1	1		1		1	1	1	1	1	1	1			1	
18	LW-14313	ALTERNATOR, (ALY-8420LS)		1	1	1	1		1	1		1		1	1	1	1	1	1	1			1	
19	36B19484	PULLEY, Alternator (3.25:1 ratio)		1	1	1	1		1	1		1		1	1	1	1	1	1	1			1	
20	32B19549	ALTERNATOR ASSY., 12 volt, 70 amp. (3.25:1 ratio)				1		1									1					1	1	
21	LW-14318	ALTERNATOR, (ALX-8421LS)				1		1									1					1	1	
22	36B19484	PULLEY, Alternator (3.25:1 ratio)				1		1									1					1	1	
23	32B19555	ALTERNATOR ASSY., 12 volt, 60 amp. (3.25:1 ratio)					1						1											
24	LW-15403	WASHER, 11/16 I.D. x 1-1/4 O.D. x .115 thick						1					1											
25	LW-14333	ALTERNATOR, (ALY-6420LS)					1						1											
26	36B19484	PULLEY, Alternator (3.25:1 ratio)					1						1											
27	32C19551	ALTERNATOR ASSY., 24 volt, 50 amp. (3.25:1 ratio)		1	1	1		1						1								1	1	1
28	LW-14321	ALTERNATOR, (ALT-8421LS)		1	1	1		1						1								1	1	1
29	36B19484	PULLEY, Alternator (3.25:1 ratio)		1	1	1		1						1								1	1	1
30	32C19553	ALTERNATOR ASSY., 24 volt, 70 amp. (3.25:1 ratio)		1		1	1										1					1	1	
31	LW-14326	ALTERNATOR, (ALU-8421LS)		1		1	1										1					1	1	
32	36B19484	PULLEY, Alternator (3.25:1 ratio)		1		1	1										1					1	1	
33	LW-14367	ALTERNATOR ASSY., 24 volt, 70 amp. (3.25:1 ratio)											1											
34	LW-15403	WASHER, 11/16 I.D. x 1-1/4 O.D. x .115 thick											1											

Williamsport Plant

ELECTRICAL SYSTEM **ALTERNATOR ASSEMBLY AND BELT (Continued)**

FIG. REF. 32	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
35	LW-14329	ALTERNATOR, (ALU-6421LS)											1						
36	36B19484	PULLEY, Alternator (3.25:1 ratio)											1						
37	LW-18900	ALTERNATOR ASSY., 24 volt, 100																	
		amp. (dual belt)				1													
38	LW-18885	ALTERNATOR, (ALV-8511)				1													
39	76421	PULLEY, Alternator (dual belt)				1													
40	37A19773-367	BELT, Alternator drive (3/8 wide)													1				
	37A19773-376	BELT, Alternator drive (3/8 wide)	1																
	37A19773M396	BELT, Alternator dual, idler pulley																	
		take-up				1													

* These parts are no longer available for purchase through Textron Lycoming.

NOTE

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

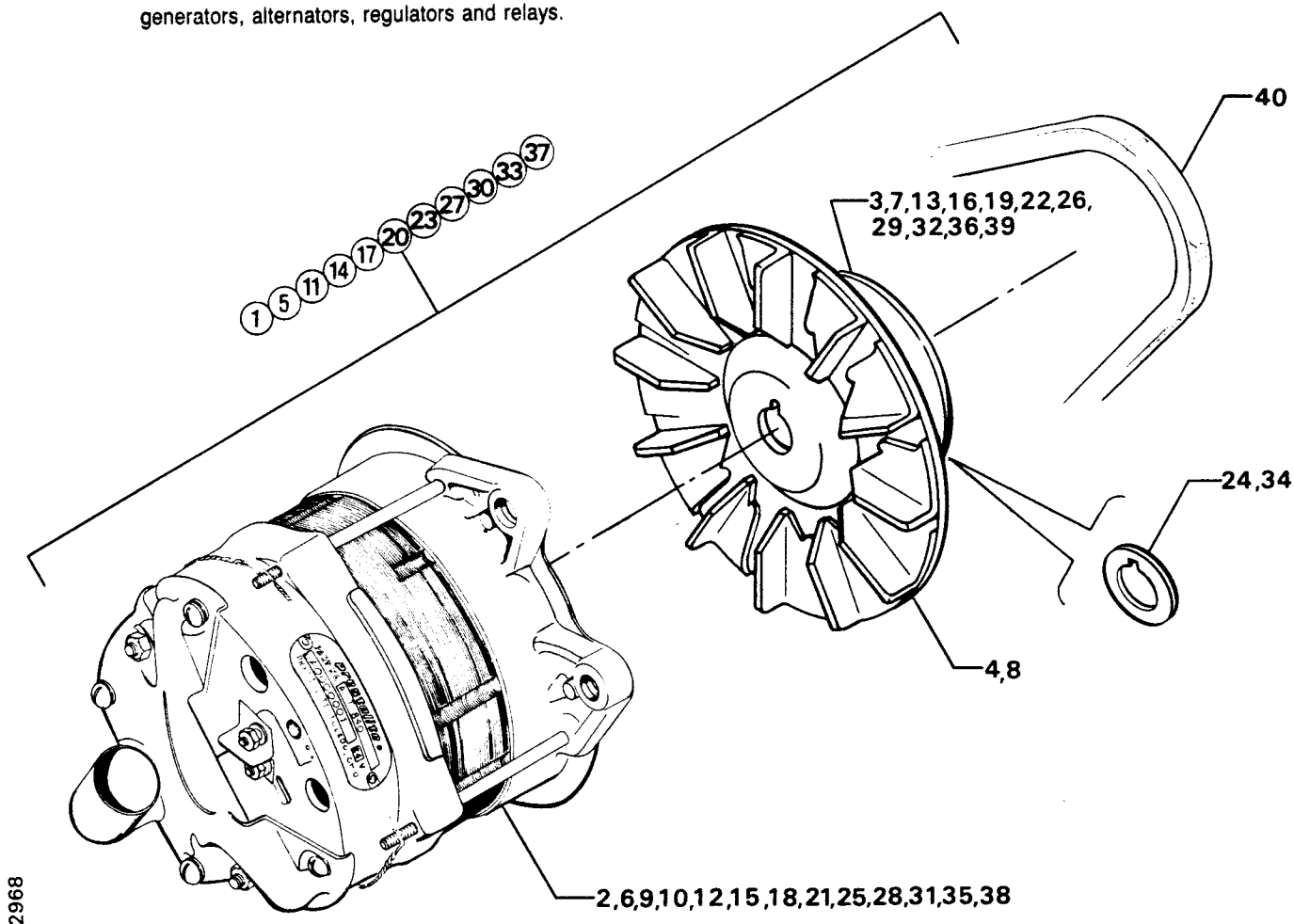


Figure 32. ALTERNATOR ASSEMBLY AND BELT

Williamsport Plant

ELECTRICAL SYSTEM
STARTER MOTOR AND ATTACHING PARTS

FIG. REF. 33	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 D	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	LW-15571	STARTER, Prestolite (MZ-4222), 12/14 pitch, 12 volt	1																			
	LW-15572	STARTER, Prestolite (MHB-4016), 12/14 pitch, 24 volt		1	1	1	1	1			1	1			1					1	1	1
2	31A21198 *	STARTER ASSY., Textron Lycoming (Lightweight), 12/14 pitch, 12 volt	1																			
	31B21064 *	STARTER ASSY., Textron Lycoming (Lightweight), 12/14 pitch, 24 volt		1	1	1	1	1			1	1			1					1	1	1
3	31E21199	MOTOR & SOLENOID ASSY. (12 volt)	1																			
	31E21143	MOTOR & SOLENOID ASSY. (24 volt)		1	1	1	1	1			1	1			1					1	1	1
4	31D21088	HOUSING ASSY., Starter support	1																			
5	STD-514	DOWEL	2																			
6	LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.	1																			
7	LW-25-2.00	BOLT, 1/4-20 x 2.00 long, hex. hd.	2																			
8	STD-160	WASHER, 1/4 lock, internal teeth	3																			
9	STD-8	WASHER, 1/4 plain	3																			
10	01L21158 *	SHIM, Starter (housing shaped)	1																			
11	01L21159 *	SHIM, Starter	1																			
12	STD-35	WASHER, 5/16 plain	4																			
13	STD-475	WASHER, 5/16 lock, internal teeth	4																			
14	LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. hd.	1																			
15	STD-1410	NUT, 5/16-18 plain	3																			

* See latest edition of Textron Lycoming Service Instruction No. 1447 for starter kit information.

NOTE

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

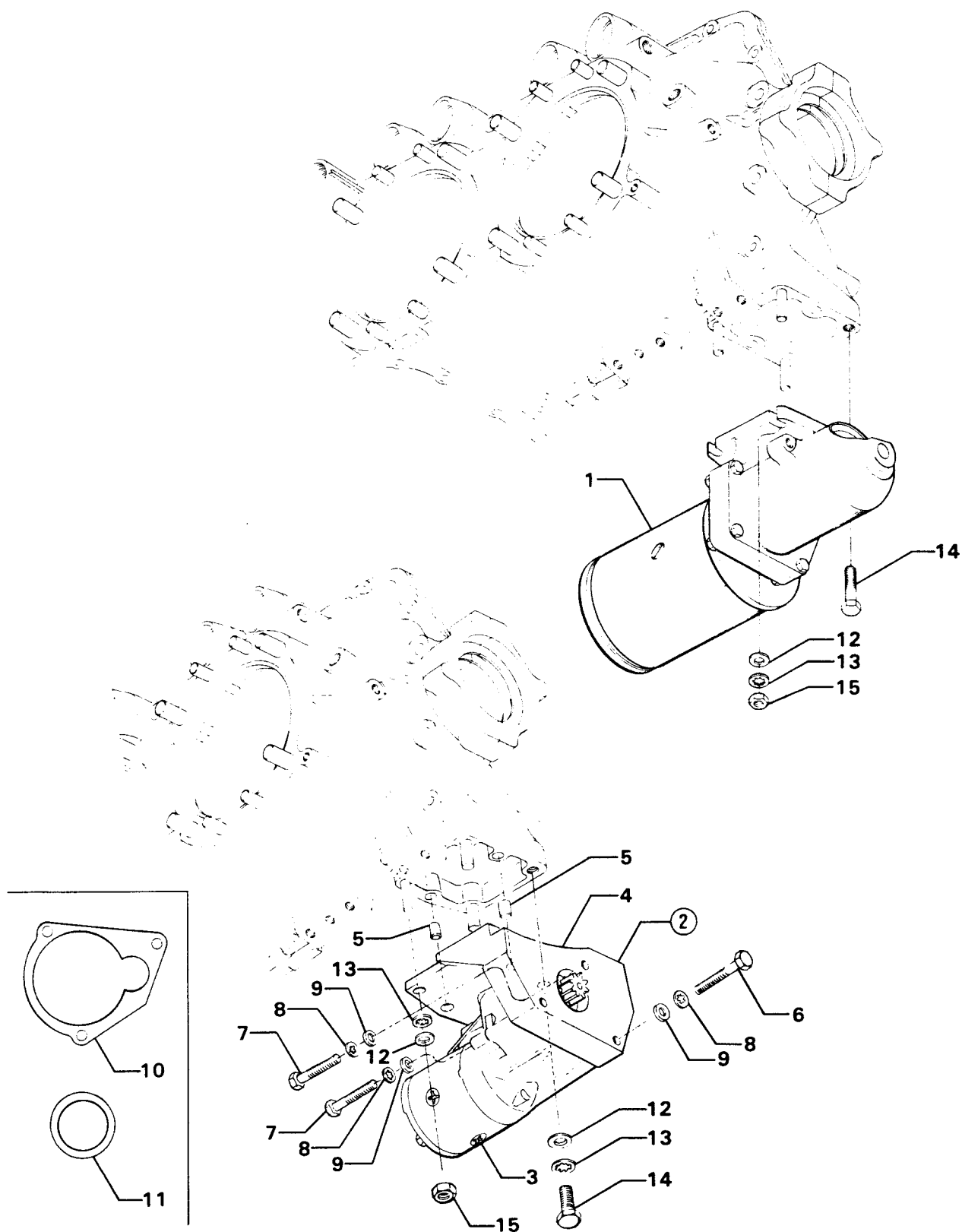


Figure 33. STARTER MOTOR AND ATTACHING PARTS

Williamsport Plant

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

FIG. REF. 34	PART NUMBER	DESCRIPTION	O N A L	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	1			
2	74384	SUMP ASSY., Oil		1	1	1	1	1	1	1	1	1	1										
	78778★	SUMP ASSY., Oil														1							
	LW-10826	SUMP ASSY., Oil												1	1		1	1	1	1			
	LW-13864★	SUMP ASSY., Oil						1															
	LW-14290★★	SUMP ASSY., Oil													1								
3	69602	CONNECTION, Intake pipe														4							
	78914	CONNECTION, Intake pipe												4	4		4	4	4	4			
4	61400	STUD, 1/4-20 x 1-3/16 long												4	4	4	4	4	4	4			
	61400	STUD, 1/4-20 x 1-3/16 long		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												4	4		4	4	4	4			
	31C-17★★	STUD, 5/16-18 x 2-1/8 long													2								
7	31C-15★★	STUD, 5/16-18 x 1-7/8 long													2								
8	31C-25	STUD, 5/16-18 x 3-1/8 long														4							
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												1	1		1	1	1	1			
11	STD-551★★	PLUG, 1/2-14 NPT, Sq. hd., drilled													1	1							
	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			
	STD-551★	PLUG, 1/2-14 NPT, Sq. hd., drilled						3															
12	STD-8	WASHER, 1/4 plain		26	26	26	26	26	26	26	26	26	26										
	STD-8★	WASHER, 1/4 plain														27							
	STD-8	WASHER, 1/4 plain												28	28		28	28	28	28			
13	STD-160★	WASHER, 1/4 lock, internal teeth														19							
	STD-160	WASHER, 1/4 lock, internal teeth		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.														7							
	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.		12	12	12	12	12	12	12	12	12	12										
	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.												14	14		14	14	14	14			
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			
16	STD-1411	NUT, 1/4-20 plain		12	12	12	12	12	12	12	12	12	12	12	12		12	12	12	12			
	STD-1411★	NUT, 1/4-20 plain														17							
17	STD-8★	WASHER, 1/4 plain														4							
18	LW-25-1.25★	BOLT, 1/4-20 x 1-1/4 long, hex. hd.														1							
19	AN365-420C★	NUT, 1/4-20 self-locking														1							
20	70484	SCREEN, Oil suction		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			
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			

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

Williamsport Plant

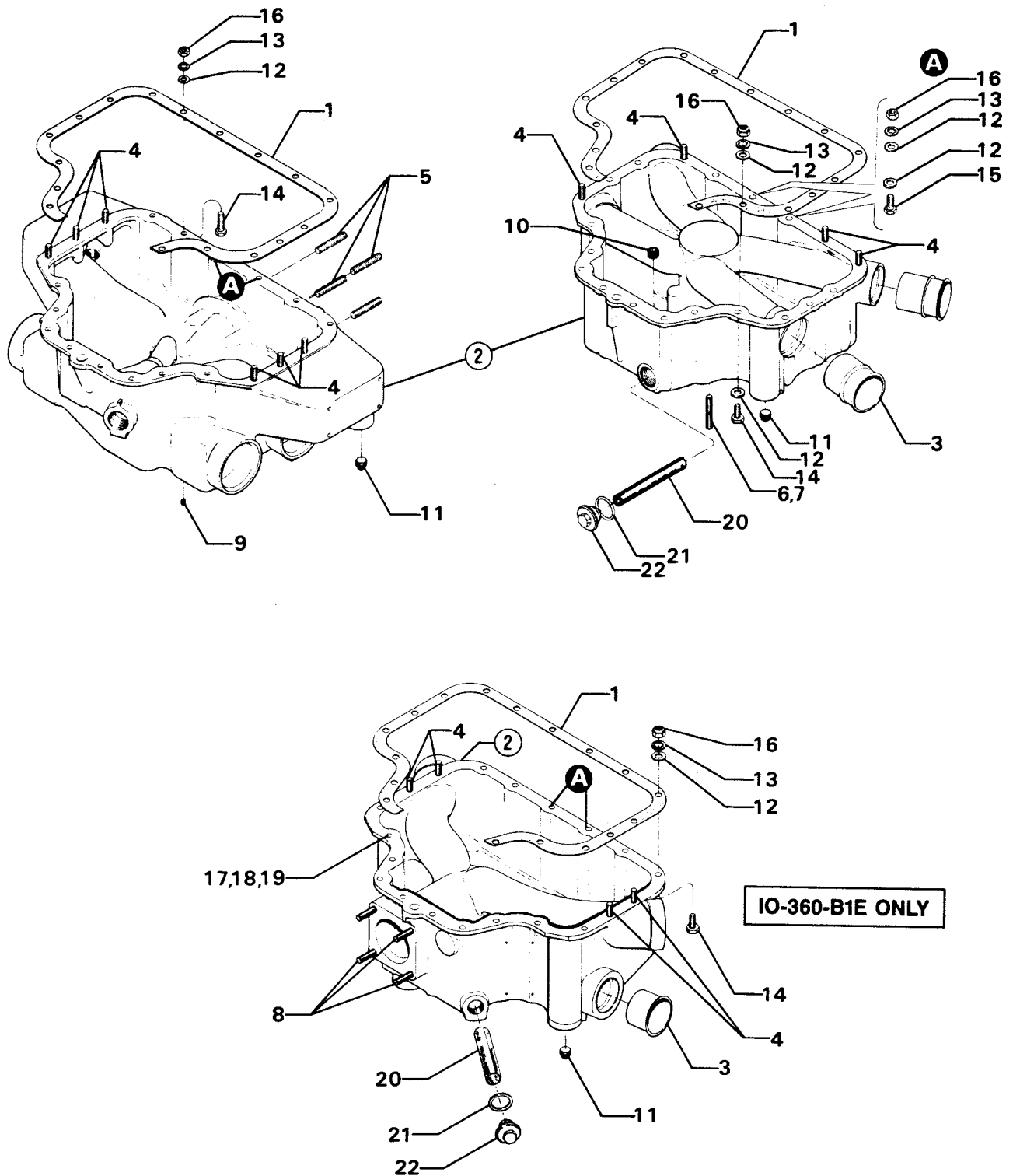


Figure 34. OIL SUMP ASSEMBLY AND OIL SUCTION SCREEN

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			
				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
1	77055	GASKET, Crankcase cover, upper																	
2	77126	CRANKCASE COVER ASSY., Upper																	
3	STD-8	WASHER, 1/4 plain																	
4	STD-160	WASHER, 1/4 lock, internal teeth																	
5	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																	
6	STD-1411	NUT, 1/4-20 plain																	
7	MS29512-10	SEAL, Oil, 3/32 dia. section x 3/4 I.D.																	
8	AN815-10	UNION, 5/8 dia. flared tube																	
9	MS29512-12	SEAL, Oil, 7/64 dia. section x 59/64 I.D.																	
10	AN924-12D	NUT, Flared tube, bulkhead fitting																	
11	AN838-12D	ELBOW, 3/4 dia. hose, bulkhead, 90°																	
12	77056	GASKET, Crankcase cover, lower																	
13	77132	CRANKCASE COVER ASSY., Lower																	
14	77155	FITTING, 5/8 adjustable, 90°																	
15	STD-1164	INSERT, 5/16-18 Helicoil x 5/8 long																	
16	STD-1353	INSERT, No. 10-24 Helicoil x 3/8 long																	
17	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.																	
18	STD-8	WASHER, 1/4 plain																	
19	STD-160	WASHER, 1/4 lock, internal teeth																	
20	LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. hd.																	
21	STD-1411	NUT, 1/4-20 plain																	
22	LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. hd.																	
23	77117	SPACER, Induction housing																	
24	77127	HOUSING ASSY., Induction																	
25	31C-14	STUD, 5/16-18 x 1-3/4 long																	
26	1102	PLUG, 1/8-27 pipe, Allen hd.																	
27	STD-35	WASHER, 5/16 plain																	
28	STD-475	WASHER, 5/16 lock, internal teeth																	
29	LW-31-4.13	BOLT, 5/16-18 x 4-1/8 long, hex. hd.																	
30	70484	SCREEN, Oil suction																	
31	06E19769-1.00	GASKET, 1.00 I.D. x 1-1/4 O.D. x 3/32 annular																	
32	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.																	

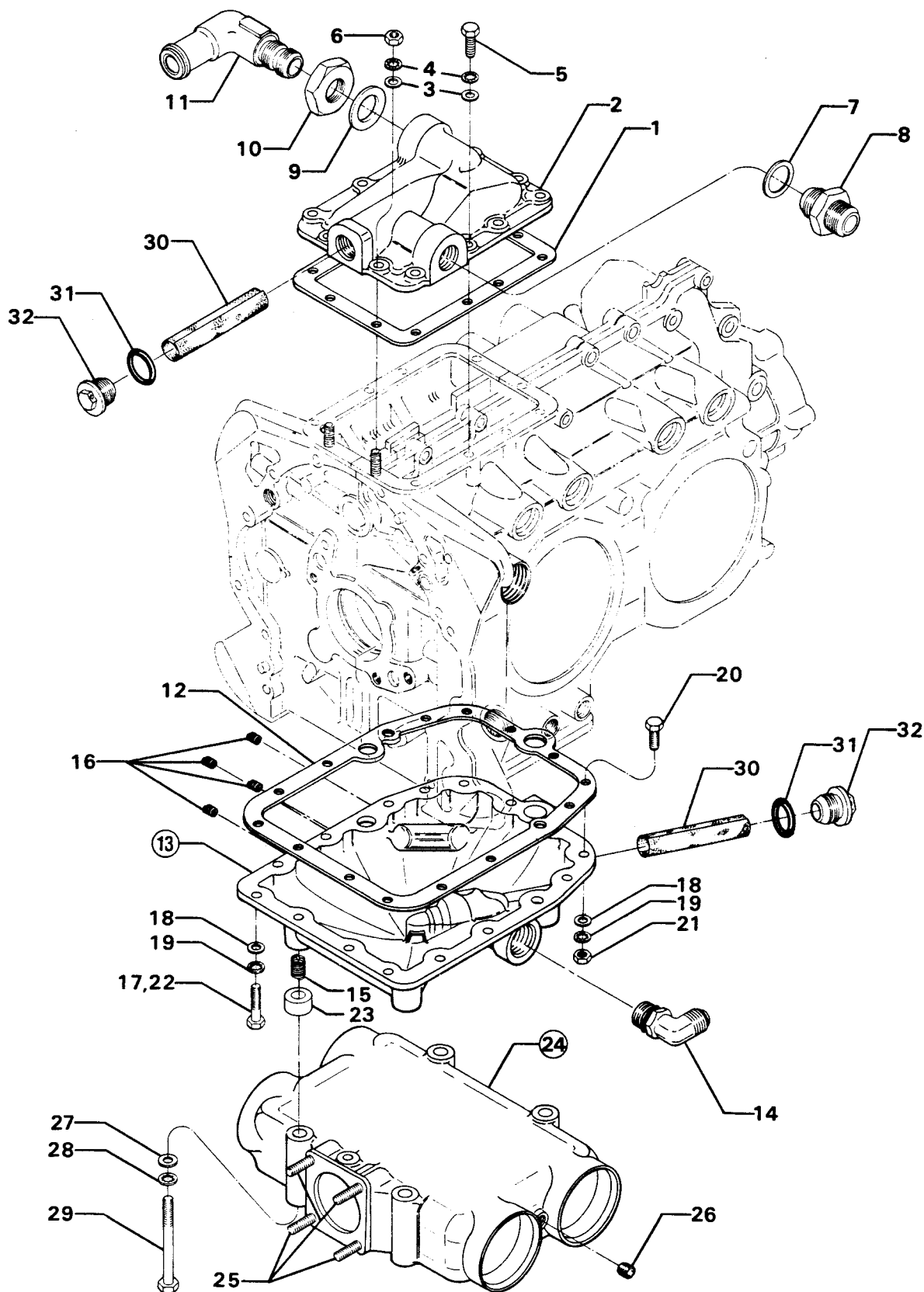


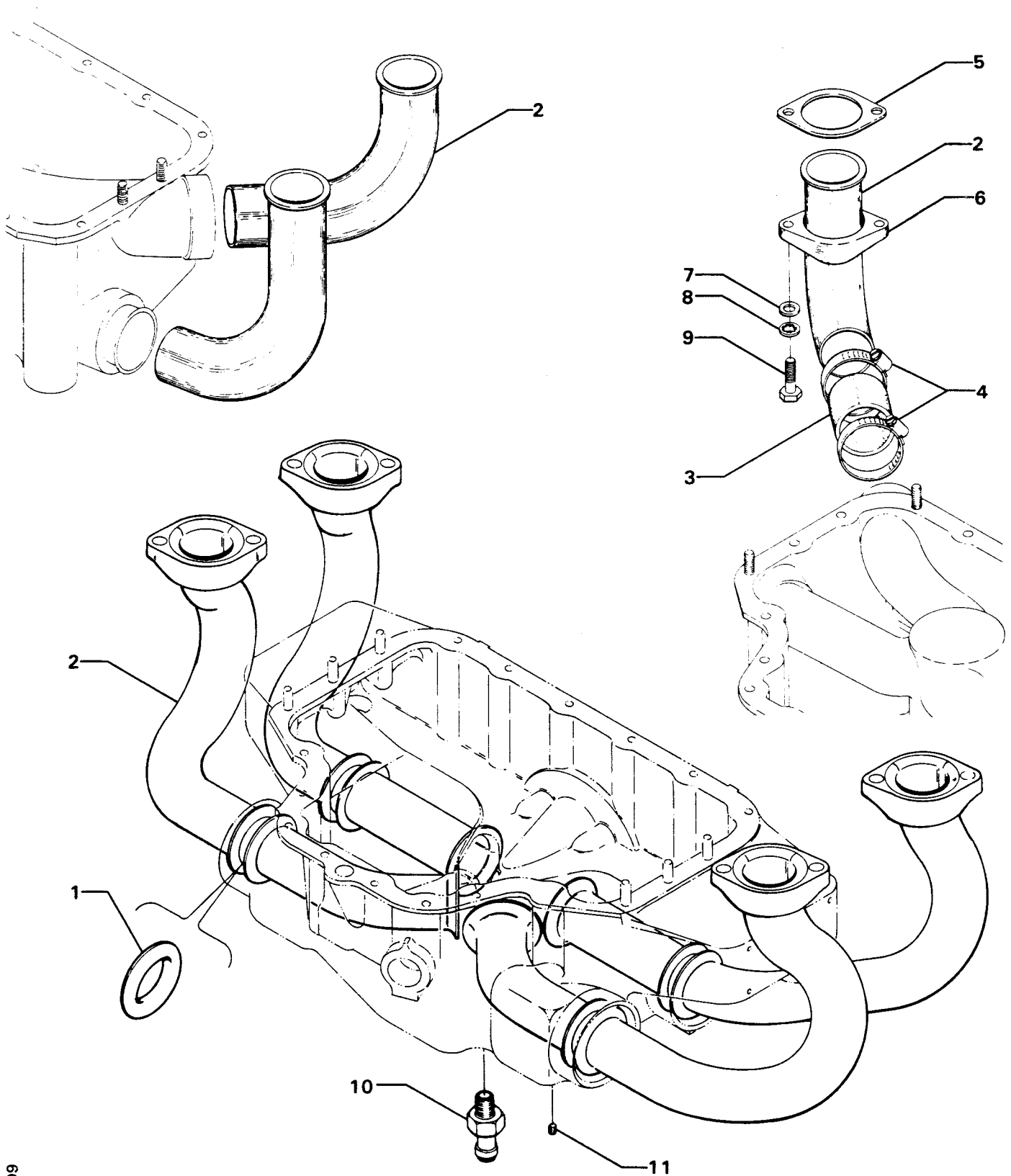
Figure 35. CRANKCASE COVERS AND INDUCTION HOUSING (AIO-360)

Williamsport Plant

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
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										
	78742	PIPE, Intake, cylinder no. 2		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										
	78744	PIPE, Intake, cylinder no. 4		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	LW-15592-8-28	CLAMP, Hose												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			
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.



2709

Figure 36. INTAKE PIPES

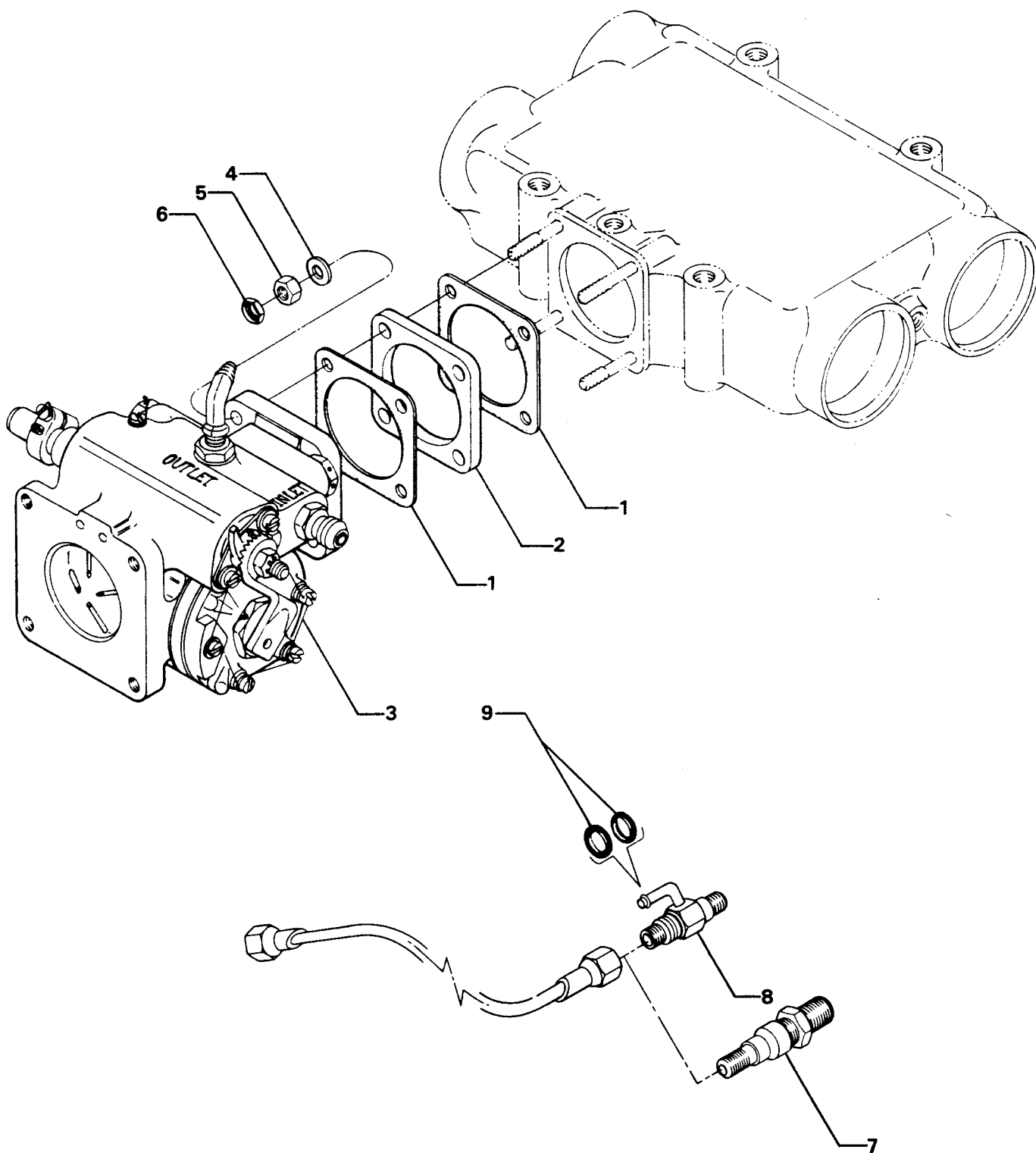
Williamsport Plant

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
1	66224	GASKET, Fuel injector		1	1	1	1	1	1	1	1	1	1						
	66224	GASKET, Fuel injector												2	2	2	2	2	2
2	73161	SPACER, Fuel injector												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						
	74556	FUEL INJECTOR (2524147-13)												1			1	1	1
	76504	FUEL INJECTOR (2524297-10)														1			
	76817	FUEL INJECTOR (2524291-11)													1		1	1	
	77752	FUEL INJECTOR (2524341-10)																	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.

**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	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	75279	MANIFOLD ASSY., Fuel		1	1	1	1	1	1	1	1	1	1											
	75279 *	MANIFOLD ASSY., Fuel													1		1	1						
	75280	MANIFOLD ASSY., Fuel												1			1	1	1	1				
	77208	MANIFOLD ASSY., Fuel																			1	1	1	
	78805	MANIFOLD ASSY., Fuel													1									
	LW-14576	MANIFOLD ASSY., Fuel																	1					
	LW-18476 * *	MANIFOLD ASSY., Fuel										1												
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°													1		1	1						
3	AN791-2	ELBOW, Union, 1/8 tube, 45°		4	4	4	4	4	4	4	4	4	4								4	4	4	
	AN791-2 *	ELBOW, Union, 1/8 tube, 45°													4		4	4						
4	STD-148	NIPPLE, Union, 1/8 NPT												4		4	4	4	4	4				
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	1
	75447 *	NIPPLE, 3/16 tube to 1/8 NPT (rest.)													1		1	1						
6	AN816-4	NIPPLE, 1/4 tube, 1/8 NPT														1								
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	2
	AN932-2 * *	PLUG, 1/8-27 NPT, Allen										3												
	AN932-2 *	PLUG, 1/8-27 NPT, Allen													2		2	2						
	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	2
	1102 * *	PLUG, 1/8-27 NPT, Allen (alternate)										3												
	1102 *	PLUG, 1/8-27 NPT, Allen (alternate)													2		2	2						
8	73966	SPACER, Fuel manifold bracket												2			2	2	2	2				
9	74597	BRACKET, Fuel manifold												1			1	1	1	1				
	74598	BRACKET, Fuel manifold												1			1	1	1	1				
10	75009 *	BRACKET, Fuel manifold		1	1	1	1	1	1	1	1	1	1											
	75009 *	BRACKET, Fuel manifold													1		1	1						
	77547 ●	BRACKET, Fuel manifold														1								
11	78714	BRACKET, Fuel manifold																			1	1	1	
12	STD-1907	SCREW, No. 10-24 x 9/16 long, flat hd.												4			4	4	4	4				
13	STD-1908	WASHER, No. 10 lock, ext. teeth, 82°												4			4	4	4	4				
14	STD-251	WASHER, No. 10 lock, internal teeth		4	4	4	4	4	4	4	4	4	4			4					4	4	4	
	STD-251 *	WASHER, No. 10 lock, internal teeth													4		4	4						
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	
	STD-82 *	SCREW, No. 10-24 x 1/2 long, rd. hd.													4		4	4						
16	STD-160	WASHER, 1/4 lock, internal teeth		1	1	1	1	1	1	1	1	1	1			1								
	STD-160 ‡	WASHER, 1/4 lock, internal teeth																			2	2	2	
	STD-160 *	WASHER, 1/4 lock, internal teeth													1		1	1						
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								
	LW-25-0.50 *	BOLT, 1/4-20 x 1/2 long, hex. hd.													1		1	1						
18	AN500A416-10 ‡	SCREW, 1/4-20 x 5/8 long, fill. hd.																			2	2	2	

* 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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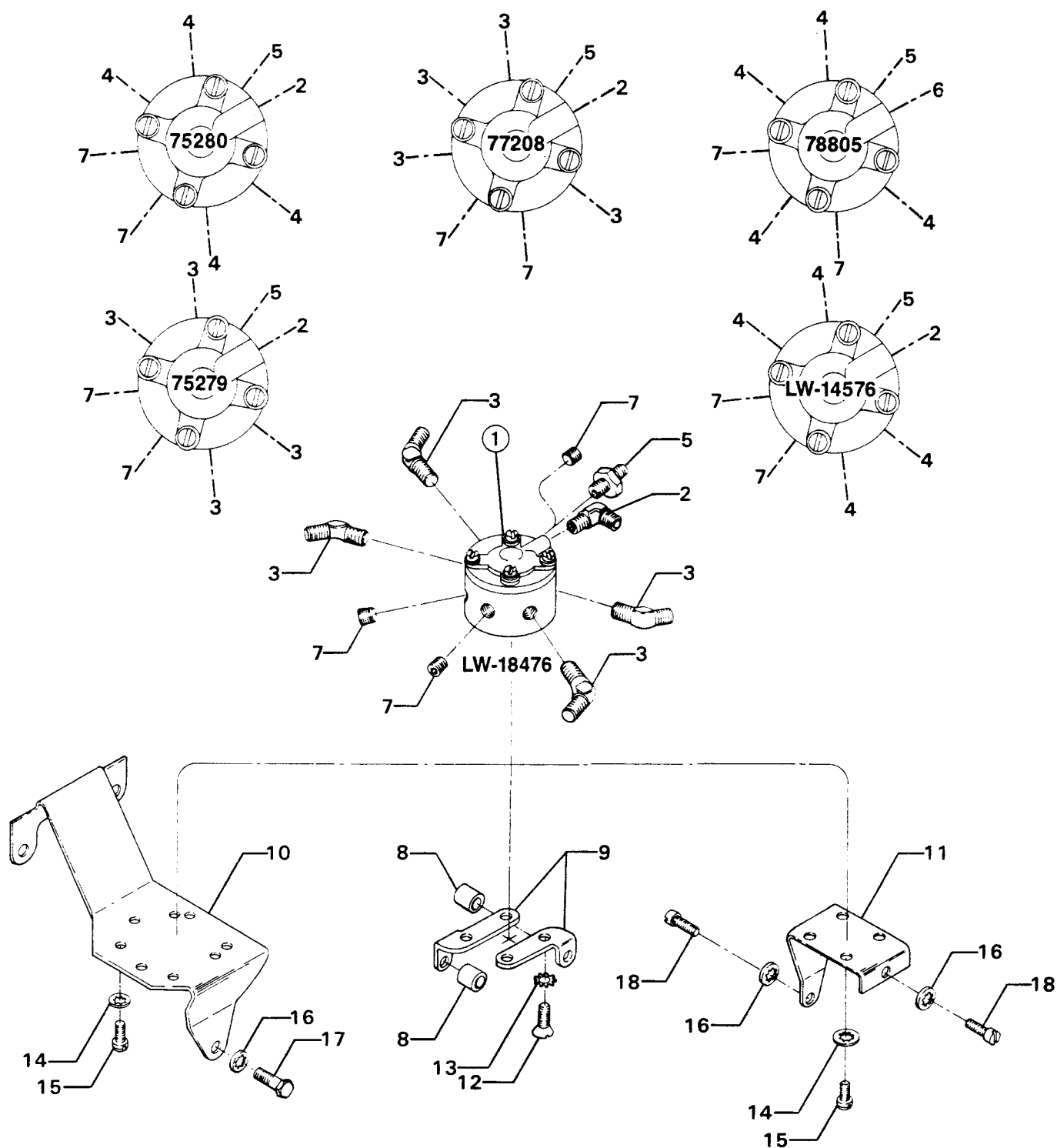


Figure 38. FUEL MANIFOLDS AND BRACKETS

Williamsport Plant

OIL SUMP AND INDUCTION SYSTEM
FUEL LINES AND ATTACHING PARTS

FIG. REF. 39	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	B 1 B			
1	LW-12098-0-170	TUBE ASSY., Fuel manifold													4				4	4	4	4				
2	LW-12098-0-140	TUBE ASSY., Fuel manifold to nozzle, cyls. 1 & 3		2	2	2	2	2	2	2	2	2	2	2		2			2	2			2	2	2	
3	LW-12098-0-210	TUBE ASSY., Fuel manifold to nozzle, cyls. 2 & 4		2	2	2	2	2	2	2	2	2	2	2		2			2	2			2	2	2	
4	LW-12098-0-140	TUBE ASSY., Fuel manifold to nozzle, cyls. 2 & 4															2									
5	LW-12098-0-210	TUBE ASSY., Fuel manifold to nozzle, cyls. 1 & 3															2									
6	LW-16266-10-75	CLAMP		4	4	4	4	4	4	4	4	4	4	4		4	4	4	4			4	4	4		
	LW-16266-10-75	CLAMP													8			8	8	8	8					
7	LW-16266-10-13	CLAMP		6	6	6	6	6	6	6	6	6	6	6		6	6	6	6			6	6	6		
	LW-16266-10-13	CLAMP													8			8	8	8	8					
8	STD-860	SCREW, No. 10-32 x 5/8 long, fill. hd.		6	6	6	6	6	6	6	6	6	6	6		6	6	6	6			6	6	6		
	STD-860	SCREW, No. 10-32 x 5/8 long, fill. hd.													8			8	8	8	8					
9	STD-670	NUT, No. 10-32 self-locking		6	6	6	6	6	6	6	6	6	6	6		6	6	6	6			6	6	6		
	STD-670	NUT, No. 10-32 self-locking													8			8	8	8	8					
10	73136	BRACKET, 90°																				1	1	1		
	73136	BRACKET, 90°		2	2	2	2	2	2	2	2	2	2	2		2	2	2	2							
11	76735	BRACKET, 90°																				1	1	1		

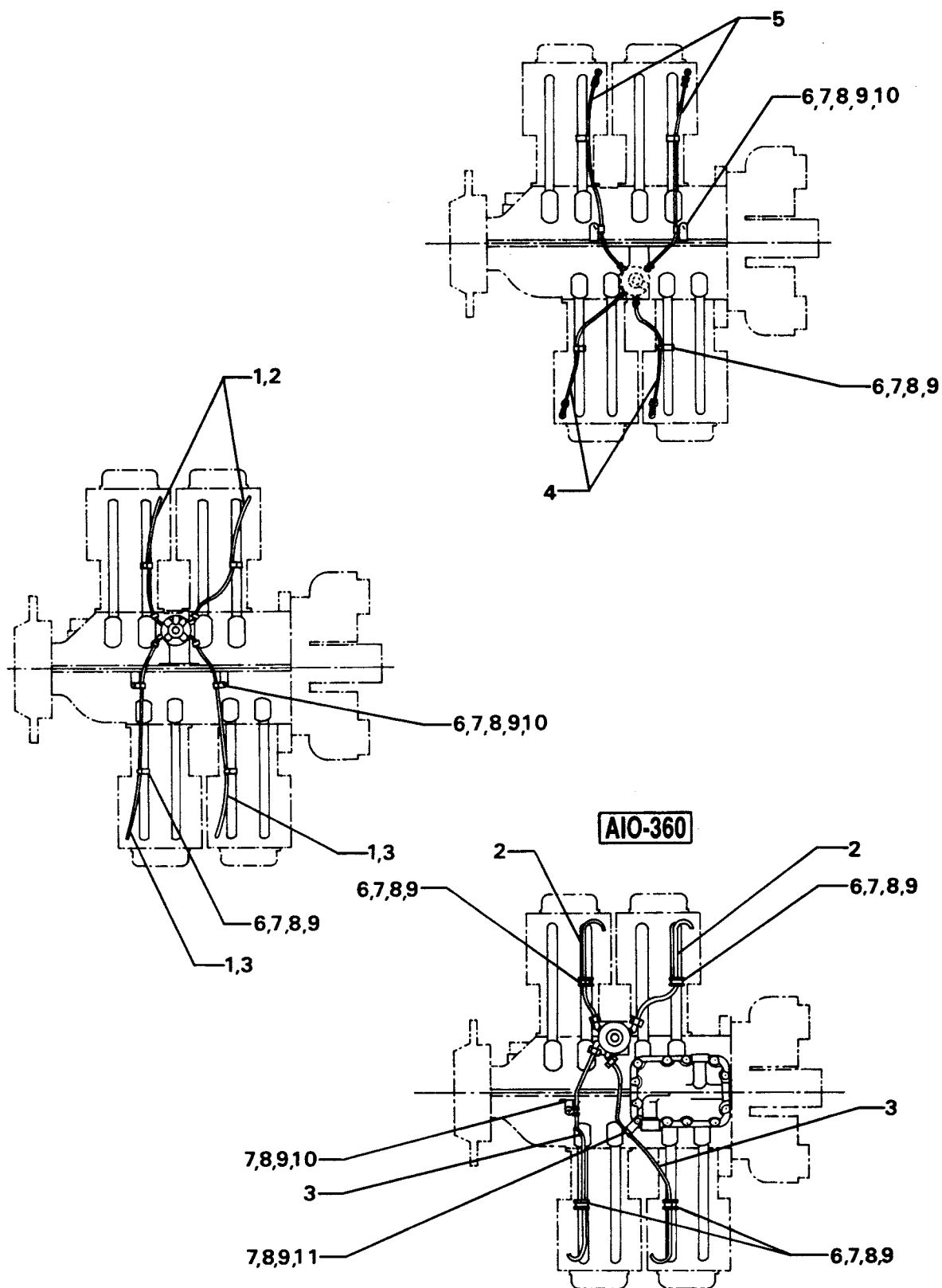


Figure 39. FUEL LINES AND ATTACHING PARTS

Williamsport Plant

OIL SUMP AND INDUCTION SYSTEM
FUEL HOSES AND ATTACHING PARTS (IO-360)

FIG. REF. 40	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-13192-4S-334 *	HOSE ASSY., Fuel injector to fuel manifold (lower) (33-1/2 inches long)												1			1	1	1	1			
2	LW-12784-4-102	HOSE ASSY., Fuel injector to fuel manifold (upper) (10-1/4 inches long)												1			1	1	1	1			
3	LW-12784-4-202	HOSE, Fuel injector to fuel manifold (20-1/4 inches long)													1		1	1					
	LW-12784-4-340	HOSE ASSY., Fuel injector to fuel manifold (34 inches long)														1							
	LW-12784-4-172	HOSE, Fuel injector to fuel manifold (17-1/4 inches long)		1	1	1	1	1	1	1	1	1	1	1									
	LW-12798-4S-172 * *	HOSE, Fuel injector to fuel manifold (17-1/4 inches long)				1							1										
4	AN837-4	ELBOW, 1/4 flared tube (bulkhead) 45°												1			1	1	1	1			
5	AN924-4	NUT, Flared tube (bulkhead)												1			1	1	1	1			
6	72815	BRACKET, Support clamp, 90° twist													1	1	1	1					
7	LW-16266-25-50	CLAMP													1	1	1	1					
8	STD-860	SCREW, No. 10-32 x 5/8 long, fill. hd.													1	1	1	1					
9	STD-425	WASHER, No. 10 plain													1	1	1	1					
10	STD-670	NUT, No. 10-32 self-locking													1	1	1	1					
11	77287	TUBE ASSY., Fuel pump to injector														1							
12	LW-12799-6S-144 * *	HOSE ASSY., Fuel pump to injector (14-1/2 inches long)																	1				
	LW-12799-6S-254 * *	HOSE, Fuel pump to injector (25-1/2 inches long)				1							1										
	LW-13181-6-254	HOSE, Fuel pump to injector (25-1/2 inches long)		1	1	1	1	1	1	1	1	1	1	1									
	LW-13181-6-303	HOSE, Fuel pump to injector (30-3/8 inches long)			1	1																	
	LW-12877-6S-161 ★	HOSE ASSY., Fuel pump to injector (16-1/8 inches long)												1			1	1	1	1			
13	LW-16266-10-75	CLAMP				1							1										
14	LW-16266-25-63	CLAMP		1	1	1	1	1	1	1	1	1	1	1									
15	73152	BRACKET, Support clamp		1	1	1	1	1	1	1	1	1	1	1									
16	STD-860	SCREW, No. 10-32 x 5/8 long, fill. hd.		1	1	1	1	1	1	1	1	1	1	1									
17	STD-425	WASHER, No. 10 plain		1	1	1	1	1	1	1	1	1	1	1									
18	STD-670	NUT, No. 10-32 self-locking		1	1	1	1	1	1	1	1	1	1	1									

- * Rubber hose with fireproof sleeve.
- * * Teflon hose with fireproof sleeve.
- * Teflon hose with fireproof sleeve and 90° elbow fitting.

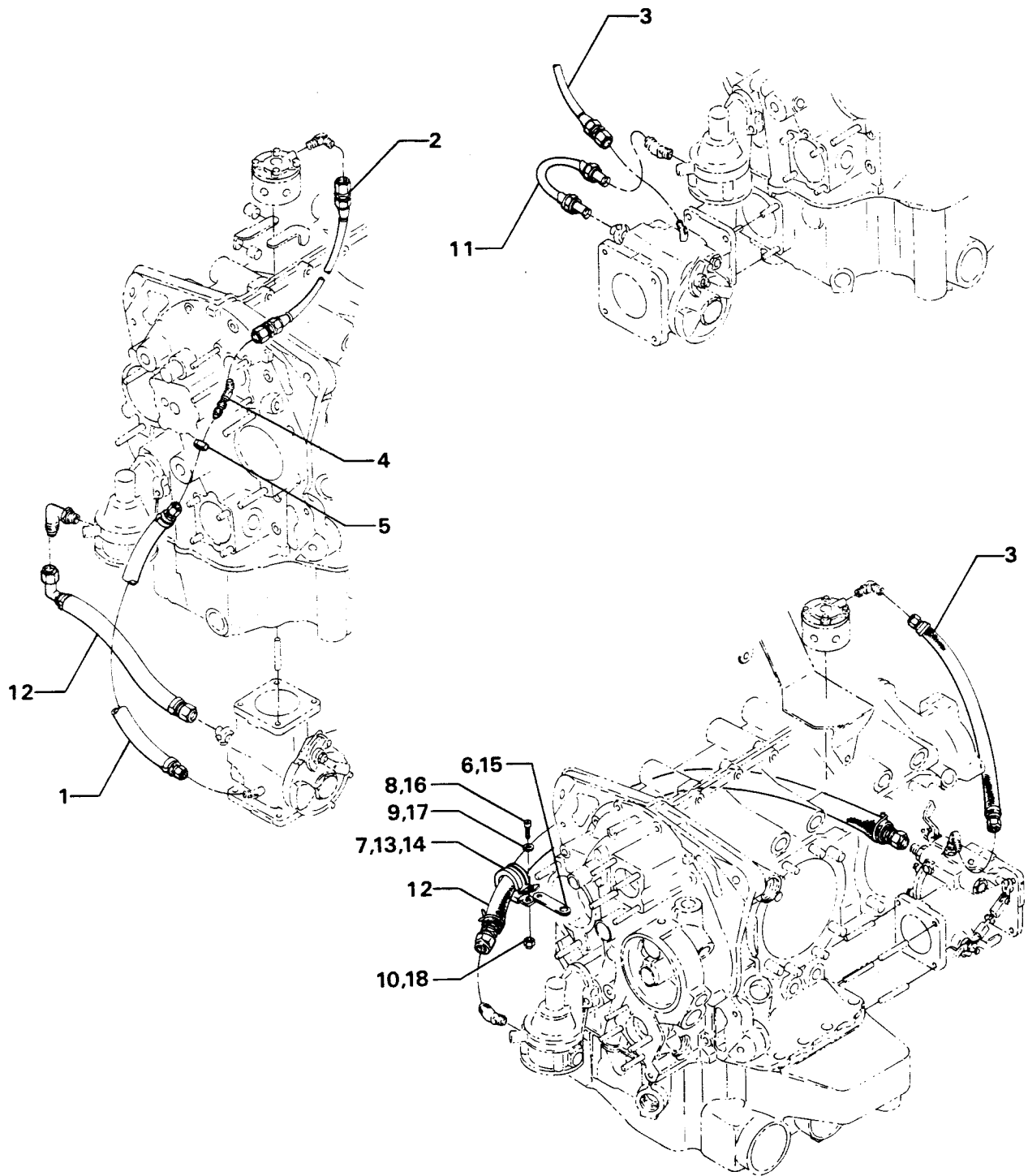
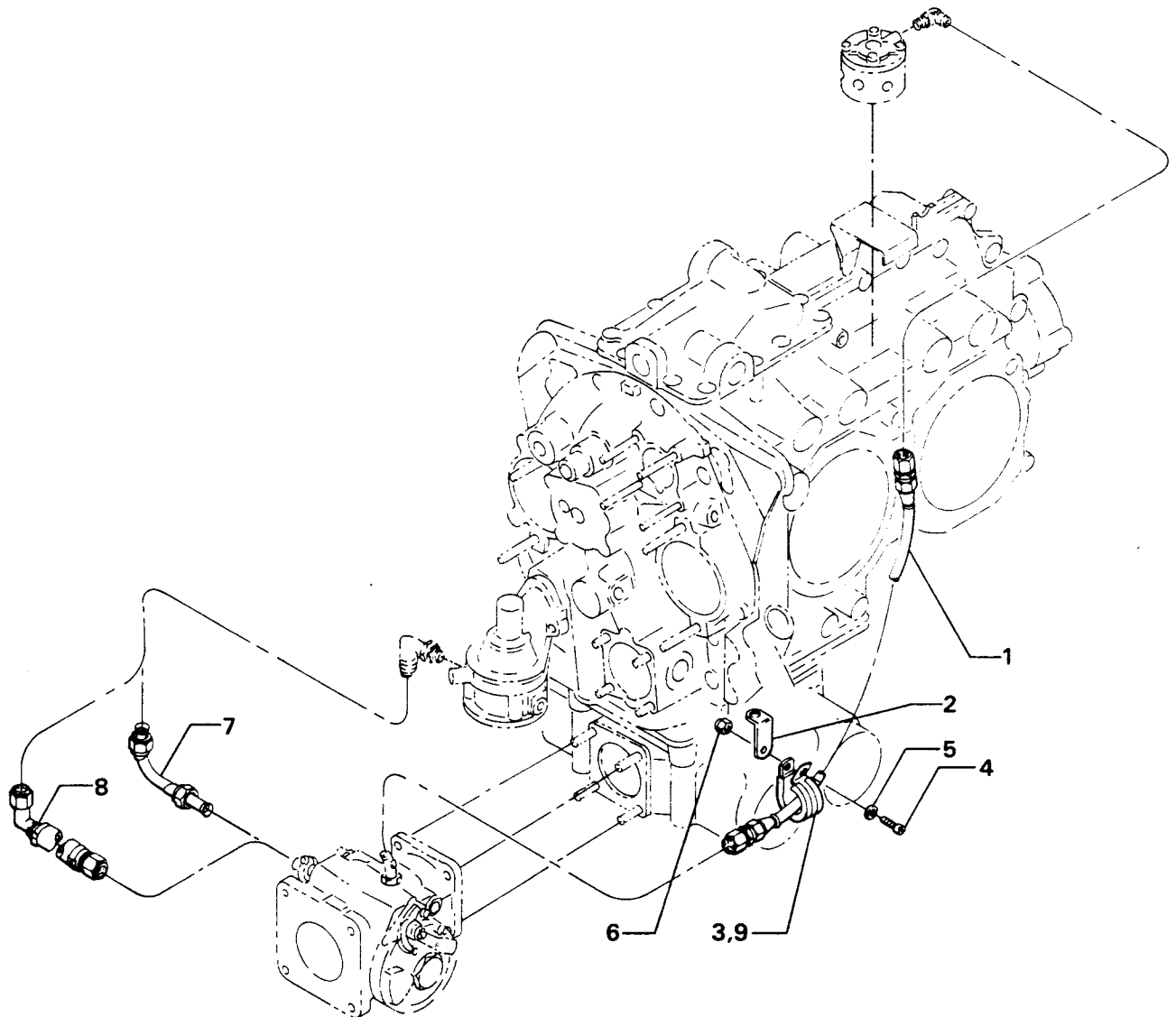


Figure 40. FUEL HOSES AND ATTACHING PARTS (IO-360)

Williamsport Plant

OIL SUMP AND INDUCTION SYSTEM
FUEL HOSES AND ATTACHING PARTS (AIO-360)

FIG. REF. 41	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	LW-13175-4-252	HOSE ASSY., Fuel injector to fuel manifold (25-1/4 inches long)																		1	1	
	LW-12784-4-172	HOSE ASSY., Fuel injector to fuel manifold (17-1/4 inches long)																				1
2	73136	BRACKET, Extension, 90°																		2	2	
3	LW-16266-25-50	CLAMP																		2	2	
4	STD-860	SCREW, No. 10-32 x 5/8 long, fill. hd.																		2	2	
5	STD-425	WASHER, No. 10 plain																		2	2	
6	STD-670	NUT, No. 10-32 self-locking																		2	2	
7	77841	TUBE ASSY., Fuel pump to injector																		1	1	
8	LW-12877-6S-142	HOSE, Fuel pump to injector (14-1/4 inches long)																				1
9	LW-16266-25-75	CLAMP																				1

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

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

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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
75905	GASKET, Rocker box cover	1
SSP-2572	TAG	1
SSP-2472	TAG	1
SSP-872	TAG	1
72135	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

Williamsport Plant

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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25C-29	Stud	2-17	60009	Key	3-5
25CD-14	Stud	1-1	60096	Gasket	2-19
31C-12	Stud	1-1	60430	Cover	2-15
31C-12	Stud	2-1	60431	Cover	2-19
31C-12	Stud	3-3	60803	Strap	1-11
31C-13	Stud	1-1	60803	Strap	1-13
31C-13	Stud	2-1	60828	Plug	3-1
31C-13	Stud	3-3	61084	Spring	1-3
31C-14	Stud	1-1	61098	Adapter Assy.	2-15
31C-14	Stud	2-3	61166	Thrust Button	2-13
31C-14	Stud	6-1	61166	Thrust Button	2-15
31C-14	Stud	6-3	61166	Thrust Button	2-17
31C-15	Stud	2-1	61166	Thrust Button	2-19
31C-15	Stud	6-1	61173	Gasket	2-9
31C-16	Stud	1-1	61174	Shaft	2-13
31C-16	Stud	2-1	61183	Gasket	2-15
31C-16	Stud	2-3	61183	Gasket	2-17
31C-17	Stud	2-1	61247	Cover	3-7
31C-17	Stud	6-1	61260	Flange	3-7
31C-19	Stud	2-1	61400	Stud	6-1
31C-25	Stud	6-1	61503	Sleeve	3-5
31CD-17	Stud	2-1	61510	Plug	1-5
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38-22	Stud	1-1	61665	Gear	4-1
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50-15	Stud	1-1	61665	Gear	4-9
383-B	Nut	3-7	61681	Guide	3-3
1028-B	Ball	1-3	62224	Gasket	4-1
1102	Plug	1-1	62224	Gasket	4-5
1102	Plug	1-5	62224	Gasket	4-9
1102	Plug	2-1	62388	Cap	3-5
1102	Plug	2-3	62415	Plunger	2-11
1102	Plug	2-17	62417	Plug	2-11
1102	Plug	3-3	62817	Screen Assy.	2-9
1102	Plug	6-1	65007	Retainer	1-1
1102	Plug	6-3	65441	Seat	3-5
1102	Plug	6-5	65614	Plug	3-9
1102	Plug	6-9	66145	Dowel	2-7
1182-B3	Spark Plug	4-7	66145	Dowel	2-17
1182-D4	Spark Plug	4-11	66224	Gasket	6-7
1182-D4	Spark Plug	4-14	66426	Impeller	2-7
1182-F3	Spark Plug	4-7	66610	Bushing	3-3
1182-J3	Spark Plug	4-3	66670	Bushing	3-3
1182-N4	Spark Plug	4-3	66713	Guide	3-3
1182-P3	Spark Plug	4-3	66728	Washer	3-5
1182-Q5	Spark Plug	4-7	66732	Gasket	3-7
1182-U5	Spark Plug	4-14	66796	Insert	3-3
1540	Plug	2-11	67114	Bushing	3-7

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68315	Gasket	2-3	71610	Hook	3-9
68315	Gasket	2-7	71611	Retainer	3-9
68317	Shaftgear	2-3	71620	Bolt	2-11
68403	Impeller	2-7	71623	Washer	2-11
68593	Spacer	2-15	71712	Pipe	6-5
68668	Spring	1-3	71713	Pipe	6-5
68759	Tube Assy.	3-9	71903	Bushing	1-5
68760	Tube Assy.	3-9	71907	Washer	1-5
68761	Tube Assy.	3-9	71973	Gasket	6-5
68795	Cover Assy.	3-7	72050	Key	3-5
68974	Housing	2-9	72053	Gasket	2-3
69106	Cover	2-3	72057	Seat	3-3
69159	Adapter Assy.	2-19	72058	Seat	3-3
69164	Gasket	2-19	72059	Gasket	1-3
69260	Insert	3-3	72060	Bushing	1-5
69316	Gear	2-17	72061	Bushing	1-5
69318	Shaft	2-17	72062	Bushing	1-5
69319	Gear Assy.	2-17	72074	Bushing	1-5
69320	Capscrew	2-17	72075	Seal	1-3
69436	Spring	2-11	72091	Ring	1-3
69510	Housing	2-9	72158	Bushing	1-1
69532	Seat	3-5	72230	Shaft	1-9
69551	Gasket	2-3	72231	Gear Assy.	1-9
69602	Connection	6-1	72255	Shroud Tube Assy.	3-5
69603	Hose	6-5	72312	Ring	1-3
69675	Connector	2-11	72343	Stabilizer	3-3
69719	Cover Assy.	2-17	72344	Stabilizer	3-3
69720	Gasket	2-17	72377	Elbow	2-19
69725	Adapter Assy.	2-17	72378	Cover	2-3
69730	Gear Assy.	2-17	72413	Fitting	2-11
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69737	Spacer	2-17	72626	Shaft	3-7
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70348	Dual Drive Assy.	2-17	72797	Roller	1-5
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70455	Gasket	2-3	72829	Lockplate	1-9
70484	Screen	6-1	72834	Cover	3-9
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70485	Pipe	6-5	72897	Guide	3-3
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71140	Fitting	2-11	73027	Tube Assy.	3-9
71266	Rocker Assy.	3-7	73136	Bracket	6-11
71481	Ring	3-7	73136	Bracket	6-15
71549	Washer	3-7	73152	Bracket	6-13
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73346	Flange	6-5	74996	Gear Assy.	1-9
73383	Lockplate	5-1	75009	Bracket	6-9
73383	Lockplate	5-3	75030	Support Assy.	1-7
73434	Rod Assy.	3-7	75060	Bolt	3-1
73437	Rod Assy.	3-7	75061	Bolt	3-1
73455	Rod Assy.	3-7	75072	Gear Assy.	1-9
73456	Rod Assy.	3-7	75089	Piston	3-1
73458	Rod Assy.	3-7	75118	Gasket	3-7
73555	Rod Assy.	3-7	75153	Adapter Assy.	2-3
73556	Rod Assy.	3-7	75154	Stud	1-1
73557	Rod Assy.	3-7	75165	Clip	2-5
73558	Rod Assy.	3-7	75166	Tube Assy.	2-5
73772	Nozzle Assy.	1-1	75167	Tube Assy.	2-5
73810	Bushing	1-5	75221	Support Assy.	1-7
73818	Gasket	2-1	75279	Manifold Assy.	6-9
73857	Ring	3-1	75280	Manifold Assy.	6-9
73937	Fuel Injector	6-7	75337	Baffle Assy.	3-9
73938	Valve	3-5	75338	Baffle Assy.	3-9
73966	Spacer	6-9	75339	Baffle Assy.	3-9
74065	Ring	1-3	75380	Link	5-1
74068	Ring	1-3	75444	Adapter Assy.	6-5
74070	Elbow	2-5	75447	Nipple	6-9
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74139	Adapter Assy.	6-5	75730	Tube Assy.	2-5
74230	Guide	3-3	75735	Tube	1-3
74241	Ring	3-1	75736	Tube	1-3
74248	Bushing	1-5	75739	Nipple	2-5
74249	Bushing	1-5	75767	Tube	1-3
74309	Bearing	3-1	75838	Guide	3-3
74319	Alternator	5-5	75888	Stud	2-1
74323	Strut	5-1	75906	Gasket	3-7
74324	Bracket	5-1	75924	Shaftgear Assy.	2-19
74325	Link	5-1	76028	Link	5-1
74384	Sump Assy.	6-1	76110	Housing Assy.	2-1
74389	Bushing	3-7	76111	Housing Assy.	2-1
74390	Rocker Assy.	3-7	76118	Spacer	1-9
74494	Plate	3-7	76121	Shaft Assy.	1-9
74524	Ring	1-3	76141	Housing Assy.	2-1
74556	Fuel Injector	6-7	76158	Pulley	5-5
74597	Bracket	6-9	76165	Alternator Assy.	5-5
74598	Bracket	6-9	76220	Stud	1-11
74637	Bushing	3-7	76220	Stud	1-13
74711	Plug	1-5	76394	Bearing	3-1
74808	Tube Assy.	3-9	76420	Pulley	5-3
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76510	Gasket	2-9	77997	Housing Assy.	2-1
76529	Cap	1-3	78290	Plunger Assy.	3-5
76534	Shim	5-2	78308	Alternator	5-5
76539	Seat	2-9	78524	Socket	3-5
76735	Bracket	6-11	78528	Body Assy.	2-13
76768	Lockwasher	5-3	78531	Body	2-13
76769	Locknut	5-3	78594	Adapter Assy.	2-3
76817	Fuel Injector	6-7	78621	Pipe	6-5
76906	Bracket	5-1	78622	Pipe	6-5
76908	Strut	5-1	78623	Pipe	6-5
76961	Clamp	4-1	78624	Pipe	6-5
76961	Clamp	4-5	78626	Tube Assy.	1-3
76961	Clamp	4-9	78629	Ball Bearing	5-3
77055	Gasket	6-3	78714	Bracket	6-9
77056	Gasket	6-3	78741	Pipe	6-5
77115	Tube Assy.	2-7	78742	Pipe	6-5
77116	Shaft Assy.	2-7	78743	Pipe	6-5
77117	Spacer	6-3	78744	Pipe	6-5
77118	Shaft	2-7	78778	Sump Assy.	6-1
77120	Fitting Assy.	1-3	78805	Manifold Assy.	6-9
77124	Housing Assy.	2-7	78914	Connection	6-1
77125	Adapter Assy.	2-7	78993	Fuel Pump	2-19
77126	Cr'kcase Cover Assy.	6-3	79002	Pipe	6-5
77127	Housing Assy.	6-3	951391	"O" Ring	6-7
77128	Tube Assy.	2-7	01L21158	Shim	5-7
77130	Tube Assy.	2-7	01L21159	Shim	5-7
77131	Tube Assy.	2-7	01P19762-1-1	Bag Attaching	4-3
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77155	Fitting	2-7	01P19762-1-1	Bag Attaching	4-11
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77172	Pump Assy.	2-7	01P19762-1-2	Bag Attaching	4-11
77208	Manifold Assy.	6-9	01P19762-1-6	Bag Attaching	4-3
77287	Tube Assy.	6-13	01P19762-1-6	Bag Attaching	4-7
77309	Bushing	1-9	01P19762-1-7	Bag Attaching	4-3
77412	Housing Assy.	2-1	01P19762-1-7	Bag Attaching	4-11
77450-S	Conn. Rod Assy.	3-1	01P19762-1-43	Bag Attaching	4-3
77467	Spring	1-3	01P19762-1-43	Bag Attaching	4-7
77547	Bracket	6-9	01P19762-2-5	Bag Attaching	4-3
77569	Seal	6-5	01P19762-2-5	Bag Attaching	4-7
77579	Support Assy.	1-7	01P19762-2-5	Bag Attaching	4-11
77620	Housing Assy.	2-1	01P19762-2-7	Bag Attaching	4-3
77718	Strut	5-1	01P19762-2-7	Bag Attaching	4-7
77752	Fuel Injector	6-7	01P19762-2-7	Bag Attaching	4-11
77808	Valve Assy.	1-3	01P19762-2-9	Bag Attaching	4-3
77841	Tube Assy.	6-15	01P19762-2-9	Bag Attaching	4-11
77852	Oil Filter Base Assy.	2-9	01P19762-2-12	Bag Attaching	4-3
77872	Bushing	2-3	01P19762-2-12	Bag Attaching	4-7
77874	Gear Assy.	2-3	01P19762-2-12	Bag Attaching	4-11
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06E19769-0.63	Gasket	2-11	66HC25SFNN	Magneto	4-9
06E19769-1.00	Gasket	6-1	66HP-0SAEN	Magneto	4-1
06E19769-1.00	Gasket	6-3	66HP-0SAEN	Magneto	4-5
06E19769-1.25	Gasket	1-3	66HP-0SANN	Magneto	4-1
07A19474	Bracket	5-1	66HP-0SANN	Magneto	4-5
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11B20051-1SH	Crankcase Assy.	1-1	66HR15SANN	Magneto	4-1
11B20051-1SL	Crankcase Assy.	1-1	66HR15SANN	Magneto	4-9
13B17131	Crk'shft & Bushing Assy.	1-5	66HR25SANN	Magneto	4-1
13B17132	Crk'shft & Bushing Assy.	1-5	66HR25SANN	Magneto	4-5
13B17160	Crk'shft & Plug Assy.	1-5	66M19385	Clamp	4-1
13B17161	Crk'shft & Plug Assy.	1-5	66M19385	Clamp	4-5
13B17162	Crk'shft & Plug Assy.	1-5	66M19385	Clamp	4-9
13B17166	Crk'shft & Plug Assy.	1-5	66M19385	Clamp	4-13
13B17167	Crk'shft & Plug Assy.	1-5	67H21450	Harness	4-14
13B17179	Crk'shft & Plug Assy.	1-5	67H21452	Harness	4-14
13S19646	Gear	1-9	67H21456	Harness	4-14
13S19649	Gear	1-9	67L20422	Harness	4-3
15F19957-35	Rod Assy.	3-7	67L20422	Harness	4-7
15F19957-36	Rod Assy.	3-7	67L20422	Harness	4-11
15F19957-57	Rod Assy.	3-7	67L20423	Harness	4-3
16T19468	Seat	3-3	67L20423	Harness	4-7
17C19386	Cap	3-5	67L20423	Harness	4-11
17C21191	Key	3-5	67P20400	Harness	4-3
17F19353	Rocker Assy.	3-7	67P20400	Harness	4-7
18A19441	Bearing	1-3	67P20400	Harness	4-11
18D19394	Bearing	1-3	67P20401	Harness	4-3
18N19391	Bearing	3-1	67P20401	Harness	4-7
31A21198	Starter Assy.	5-7	67P20402	Harness	4-3
31B21064	Starter Assy.	5-7	67P20402	Harness	4-7
31D21088	Housing Assy.	5-7	67P20402	Harness	4-11
31E21143	Motor & Solenoid Assy.	5-7	67P20403	Harness	4-3
31E21199	Motor & Solenoid Assy.	5-7	67P20403	Harness	4-7
32B19549	Alternator Assy.	5-5	67P20403	Harness	4-11
32B19555	Alternator Assy.	5-5	67P20405	Harness	4-3
32C19551	Alternator Assy.	5-5	67P20405	Harness	4-11
32C19553	Alternator Assy.	5-5	67P20412	Harness	4-3
36B19484	Pulley	5-5	67P20412	Harness	4-7
36B19484	Pulley	5-6	67P20412	Harness	4-11
37A19773-367	Belt	5-6	67P20413	Harness	4-3
37A19773-376	Belt	5-6	67P20413	Harness	4-7
37A19773M396	Belt	5-6	67P20413	Harness	4-11
53E19600	Valve Assy.	2-9	67P20414	Harness	4-3
54D19625	Oil Filter	2-9	67P20414	Harness	4-11
54D19627	Oil Filter	2-9	67P20415	Harness	4-3
55C21021	Spring	2-9	67P20415	Harness	4-11
66HC15SFNN	Magneto	4-1	67P20416	Harness	4-3

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67P20416	Harness	4-11	67P20428	Harness	4-3
67P20417	Harness	4-3	67P20428	Harness	4-7
67P20417	Harness	4-7	67P20428	Harness	4-11
67P20417	Harness	4-11	67P20429	Harness	4-3
67P20418	Harness	4-3	67P20429	Harness	4-7
67P20418	Harness	4-7	67P20429	Harness	4-11
67P20418	Harness	4-11	68C19622	Gear	4-1
67P20419	Harness	4-3	68C19622	Gear	4-5
67P20419	Harness	4-7	68C19622	Gear	4-9

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

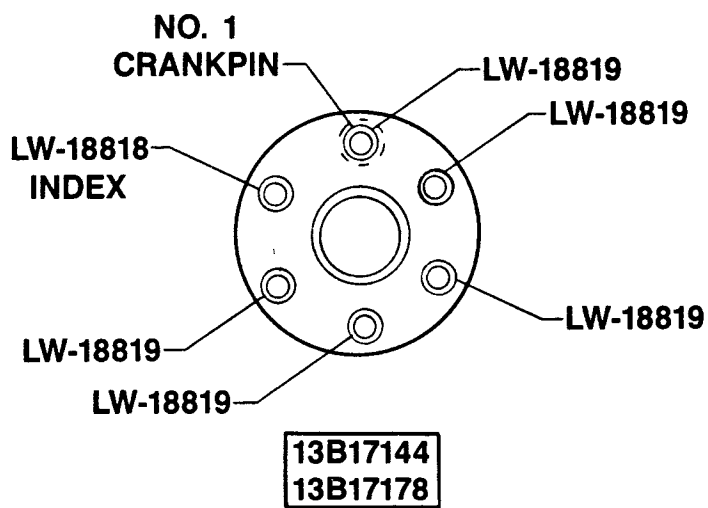
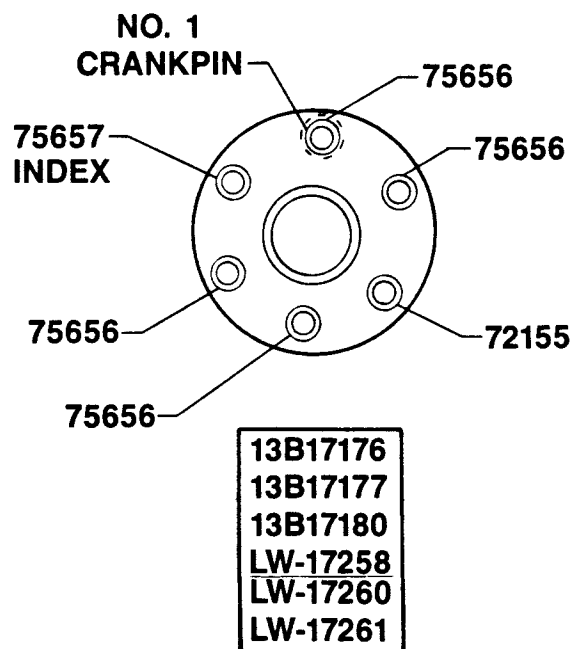
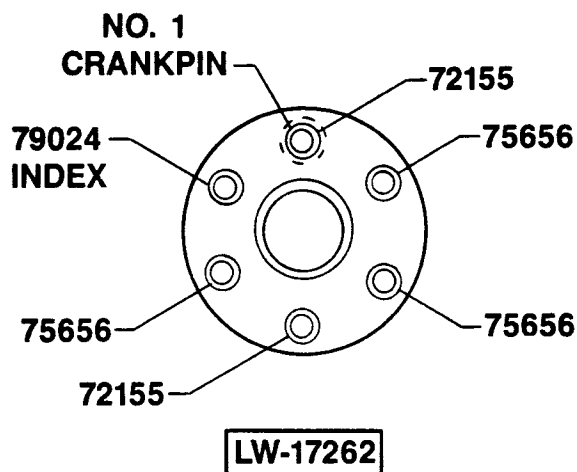
Engine Model	Nomenclature	CRANKSHAFT Aerobatic Configuration
Production —		
AEIO-360-A1A	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-A1B	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-A1B6	CRANKSHAFT & PLUG ASSEMBLY	LW-17258
AEIO-360-A1D	CRANKSHAFT & PLUG ASSEMBLY	13B17176
AEIO-360-B1F	CRANKSHAFT & PLUG ASSEMBLY	13B17177
AEIO-360-B2F	CRANKSHAFT & PLUG ASSEMBLY	13B17178
AEIO-360-B4A	CRANKSHAFT & BUSHING ASSY.	13B17144
IO-360 Models that could be field converted for Aerobatic use —		
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

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Figure 3A (Continued) - Bushing Locations



IO, AIO-360-A, -B SERIES PARTS CATALOG **WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES**

OIL SUMP AND INDUCTION SYSTEM **OIL SUMP ASSEMBLY, SUCTION SCREEN AND AEROBATIC COMPONENTS**

FIG. REF. 34A	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY															
				AEIO-360															
				A 1 A	A 1 B	A 1 B 6	A 1 D	B 1 F	B 2 F	B 4 A									
1	LW-13353	GASKET, Oil sump	1																
2	LW-13864	SUMP ASSY., Oil		1	1	1	1												
	LW-13861	SUMP ASSY., Oil						1	1	1									
3	78914	CONNECTION, Intake pipe						4	4	4									
4	61400	STUD, 1/4-20 x 1-3/16 long		6	6	6	6	4	4	4									
5	31C-14	STUD, 5/16-18 x 1-3/4 long		4	4	4	4												
6	31C-17	STUD, 5/16-18 x 2-1/8 long						4	4	4									
7	1102	PLUG, 1/8-27 NPT, Allen head		1	1	1	1												
8	STD-91	PLUG, 1/2-14 NPT, Allen head						1	1	1									
9	STD-551	PLUG, 1/2-14 NPT, sq. hd., drilled		3	3	3	3	4	4	4									
10	STD-8	WASHER, 1/4 plain		26	26	26	26	28	28	28									
11	STD-160	WASHER, 1/4 lock, internal teeth	20																
12	STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.		12	12	12	12	14	14	14									
13	LW-25-094	BOLT, 1/4-20 x 1-1/8 long, hex. hd.	2																
14	LW-25-1.13	NUT, 1/4-20 plain	12																
15	LW-13752	PLUG, Sump	1																
16	50004-111	RING, "O"	1																
17	LW-13888	SCREEN, Oil suction (3.81 long)	1																
	70484	SCREEN, Oil suction (4.50 long)		1						1									
18	LW-13751	FITTING, Sump, oil suction	1																
19	50004-018	RING, "O"	1																
20	LW-14035	FITTING, Sump, oil suction		1						1									
21	AN-900-16	RING, "O"		1						1									
22	LW-13753	FITTING, Sump, oil strainer				1	1	1	1	1									
23	LW-15394	FITTING, Sump, oil strainer (45° elbow)																	
		long		1		1	1												
24	LW-14149	FITTING, Sump, oil strainer (45° elbow)								1									
25	LW-15393	FITTING, Sump, oil strainer		1	1	1	1												
26	LW-16712	FITTING, Sump, oil strainer				1													
27	LW-13754	FITTING, Sump, oil return	1																
28	LW-14148	FITTING, Sump, oil return (45° elbow)		1			1												
29	LW-14247	FITTING, Sump, oil return (nipple)				1													
30	57A21009	SEPARATOR, Oil	1																
31	LW-13755 *	TEE, Breather																	
32	57B19829	VALVE, Oil	1																
33	50004-027	RING, "O"	1																
34	LW-16878 ** *	ADAPTER, Breather																	

NOTE

"Breather Option"

A visual check should be made to determine which optional installation is applicable on any given engine model.

* See Figure 1 on illustration page for usage.

** See Figure 2 on illustration page for usage.

★ Not used if vacuum pump is installed.

