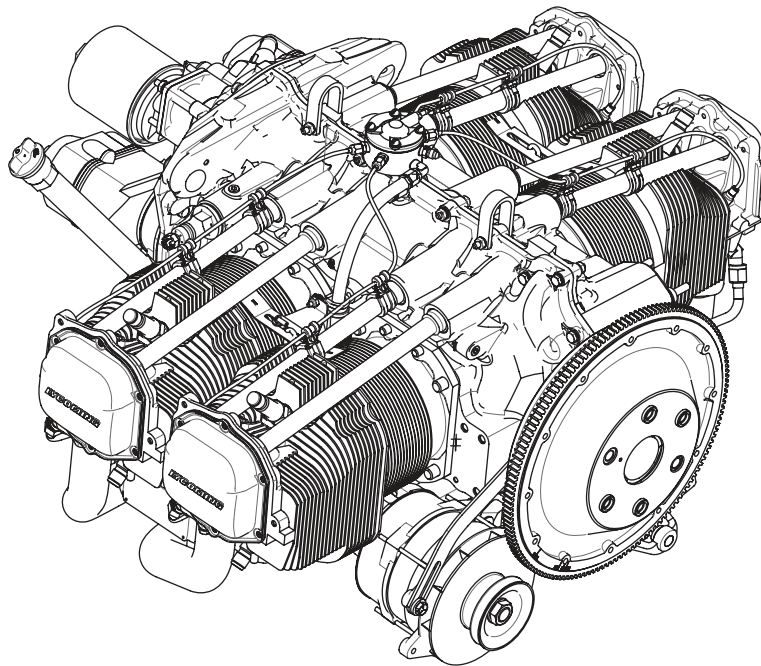


Lycoming Aircraft Engines Parts Catalog



O, LO, TO, -360 Series **Wide Cylinder Flange Models**

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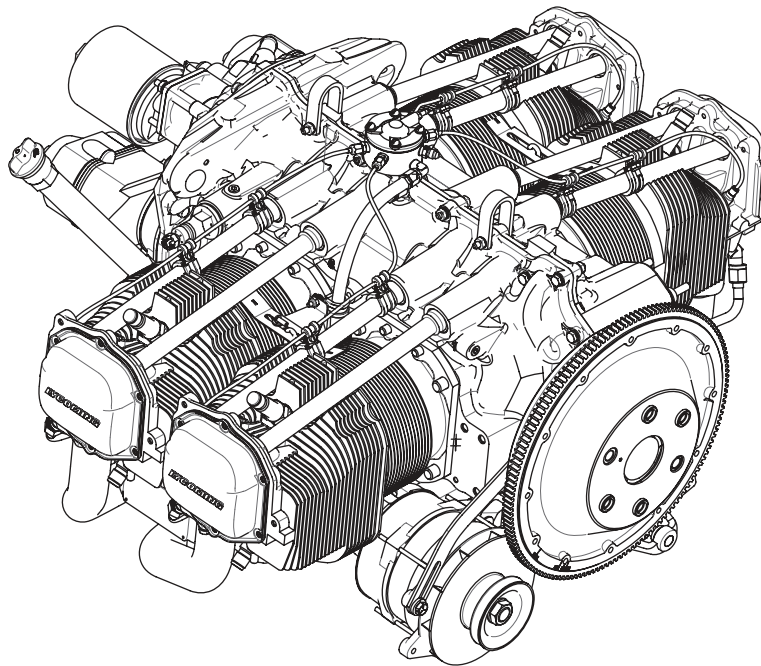
TECHNICAL PUBLICATION REVISION

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PREVIOUS REVISIONS	CURRENT REVISION
<p>June 1986 Page 2-3, 2-7</p>	<p>June 2010 Page 4-1, 4-2; Page 9-1 thru Page 9-8</p>

Lycoming Aircraft Engines Parts Catalog



O, LO, TO, -360 Series **Wide Cylinder Flange Models**

LYCOMING

TO-360-F1A6D

The TO-360-F1A6D model aircraft engine is not included in the general assembly list of this parts catalog. For parts peculiar to the TO-360-F1A6D model engine, use all parts listed under the TO-360-C1A6D column except for the following parts which are different.

Ref. No.	Part No.	Description	Qty. Per Eng.
— Page 1-1 - Figure 1			
1	LW-15880	CRANKCASE ASSEMBLY	1
21	67556	STUD, 5/16-18 x 2.00 long (Driven height of studs 1.31)	4
— Page 1-3 - Figure 2			
5	LW-14796	GAGE ASSY., Oil level	1
— Page 2-9 - Figure 15			
5	71140	FITTING, Breather	1
— Page 5-1 - Figure 26			
1	LW-10185	REGULATOR, 12 V., full transistor	1
— Page 5-5 - Figure 29			
2	LW-14308	ALTERNATOR, 12 V. - 60 Amp., externally grounded (ALY-8420)	1
— Page 7-1 - Figure 35			
18	LW-15887	PIPE, Exhaust, tail	1
— Page 7-3 - Figure 36			
1	LW-16864	TRANSITION, WASTEGATE AND ROD END ASSY.	1
7	LW-16863	TRANSITION AND WASTEGATE ASSY.	1

INTRODUCTION

This illustrated Parts Catalog provides parts coverage for all current models of O, LO, TO-360 wide cylinder flange (WCF) series engines. These wide cylinder flange engines are identified by the suffix "A" on the engine serial number (e.g. L-20650-36A). The serial number as well as the model designation may be found on the engine nameplate on the oil sump. For parts information of the O-360 conventional (or narrow) cylinder flange engines, refer to the Parts Catalog PC-106 to those parts marked STD (meaning standard) for standard or narrow cylinder flange.

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

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

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

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

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

SERVICE BULLETINS, INSTRUCTIONS AND LETTERS

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

NOTE

The illustrations, pictures and drawings shown in this publication are typical of the subject matter they portray; in no instance are they to be interpreted as examples of any specific engines, equipment or part thereof.

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LO. TO-360 SERIES WIDE CYLINDER FLANGE

Oversize and Undersize Parts Listing

PART NO.	DESCRIPTION	OVERSIZE							UNDERSIZE		
		P05	P075	P10	P125	P15	P20	P30	M03	M06	M10
76077	GUIDE, Valve intake	X		X			X	X			
61681	GUIDE, Valve intake	X		X			X	X			
66796	INSERT, Spark plug			X							
69260	INSERT, Spark plug			X							
69796	DOWEL, Crankshaft bearing	X									
LW-10647	DOWEL, Crankshaft bearing	X		X							
71903-A, -B	BUSHING, Counterweight	SEE SERVICE INSTRUCTION NO. 1143 FOR SIZE.									
72057	SEAT, Intake valve			X			X	X			
LW-12688	SEAT, Intake valve			X			X	X			
72058	SEAT, Exhaust valve			X			X	X			
71894	SEAT, Exhaust valve			X			X	X			
72060	BUSHING, Propeller flange	X		X		X	X				
75560	BUSHING, Propeller flange	X		X			X				
75657	BUSHING, Propeller flange	X		X			X				
72061	BUSHING, Propeller flange	X		X		X	X				
72155	BUSHING, Propeller flange	X		X		X	X				
72062	BUSHING, Propeller flange	X		X		X	X				
75561	BUSHING, Propeller flange	X		X			X				
75656	BUSHING, Propeller flange	X		X			X				
73810	BUSHING, Crankshaft counterweight	X	X	X	X	X					
74230	GUIDE, Valve exhaust	X		X			X	X			
LW-14045	GUIDE, Valve exhaust	X		X			X	X			
LW-13521	BEARING, Connecting rod			X					X	X	X
LW-13884	BEARING, Crankshaft front								X	X	X
LW-13885	BEARING, Crankshaft front								X	X	X
LW-11021	BEARING, Crankshaft								X	X	X

Studs available in P03, P07 and P12.

NOTE

When ordering oversize or undersize parts, be sure to specify the required oversize or undersize dimension along with the proper part number. For example: to order bearing LW-13521 in .003 undersize, order part number LW-13521-M3. Oversize code is "P" while undersize code letter is "M" These letters are then followed by the numbers designating the size in thousandths of an inch.

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360										LO-360			TO-360		
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6				A 1 G 6 D		
1	LW-13819	CRANKCASE ASSEMBLY				1	1												
	LW-13809	CRANKCASE ASSEMBLY			1														
	LW-13808	CRANKCASE ASSEMBLY						1	1	1	1	1	1						
	LW-14666	CRANKCASE ASSEMBLY																	1
	LW-15542	CRANKCASE ASSEMBLY															1		
	LW-16109	CRANKCASE ASSEMBLY											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	16	16	16	16	16	16	16	16	16	19		16		16
5	38D-17	STUD, 3/8-16 x 2-1/8 long, drilled	1																
6	LW-13793	STUD, 5/16-18 x 15/16 long, drilled			1	1	1	1	1	1	1	1	1	1	1				
7	31C-12	STUD, 5/16-18 x 1-1/2 long			2		2	2	2	2	2	2	2	2	2		2		2
8	31CD-12	STUD, 5/16-18 x 1-1/2 long, drilled				1	1												
9	31C-13	STUD, 5/16-18 x 1-5/8 long			1			1	1	1	1	1	1	1			1		1
10	38-22	STUD, 3/8-16 x 2-3/4 long												1					1
11	STD-557	DOWEL, 1/2 dia. x 19/32 long, hollow	2																
12	72158	BUSHING, Gov. drive idler shaft												1					1
13	STD-514	DOWEL, 5/16 dia. x 1/2 long	2																
14	69796	DOWEL, Crankshaft bearing	2																
15	LW-10647	DOWEL, Crankshaft bearing			4	4	4	4	4	4	4	4	4	4	4		4		
16	1102	PLUG, 1/8-27 NPT, Allen			5	5	5	5	5	5	5	5	5	5	4		4		4
17	STD-1623	INSERT, 1/4-20 x Heli-coil x 3/8 long	2																
18	65007	RETAINER, Shroud tube seal	8																
19	STD-1339	PLUG, 1/16-27 NPT, Allen hd.												1					1
20	31C-16	STUD, 5/16-18 x 2.00 long (Driven height of studs 1.31)														4			4
21	31C-14	STUD, 5/16-18 x 1-3/4 long (Driven height of studs .96 - 1.00)																	4
22	73772	NOZZLE ASSY., Piston cooling																	4

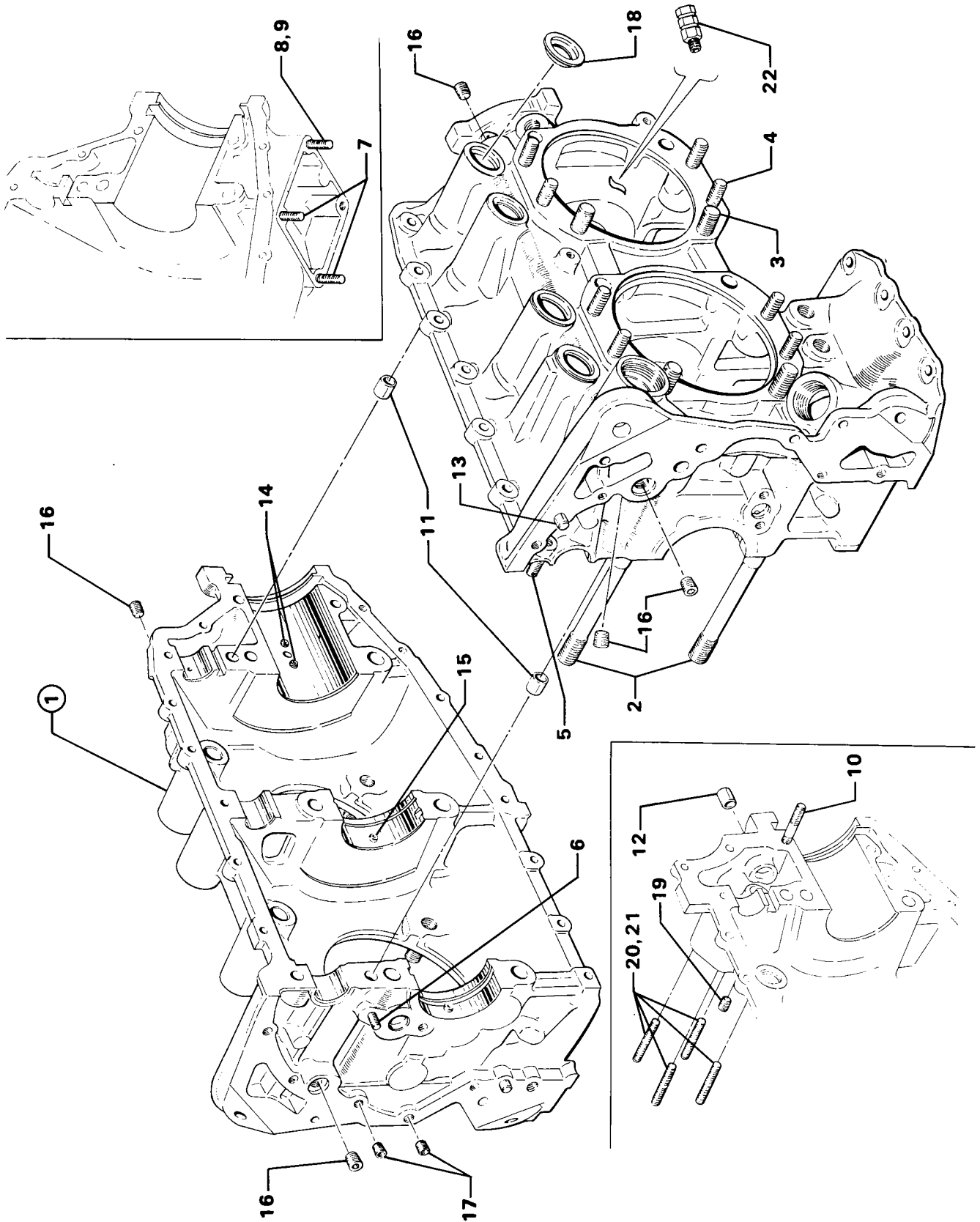


Figure 1 Crankcase Assembly

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
OIL LEVEL GAGE ASSEMBLIES

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																				
				O-360								LO-360						TO-360						
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A	6	A 1 G 6 D				C 1 A 6 D					
1	75735	TUBE, Oil level gage, short			1	1	1				1	1												
	75767	TUBE, Oil level gage, intermediate					1	1			1	1	1	1										
	75736	TUBE, Oil level gage, long								1												1		
2	78626	TUBE ASSY., Oil level gage, 15.13 long																						1
	LW-16580	TUBE ASSY., Oil level gage, 12.81 long											1											
3	72059	GASKET, Oil level gage	1																					
4	74068	RING, Oil level gage seal			1	1	1		1	1	1													
	74065	RING, Oil level gage seal				1	1		1	1	1	1	1									1		1
5	LW-14759	GAGE ASSY., Oil level			1	1	1			1	1													
	LW-14780	GAGE ASSY., Oil level					1	1		1	1	1	1											
	LW-14758	GAGE ASSY., Oil level							1															
	LW-14764	GAGE ASSY., Oil level, intermediate																						1
	LW-14782	GAGE ASSY., Oil level																						1
	LW-14790	GAGE ASSY., Oil level																						1
	LW-14795	GAGE ASSY., Oil level											1											
6	72842	PLUG, Oil level gage			1	1	1		1	1	1													
	72844	PLUG, Oil level gage					1	1		1	1	1	1	1									1	1

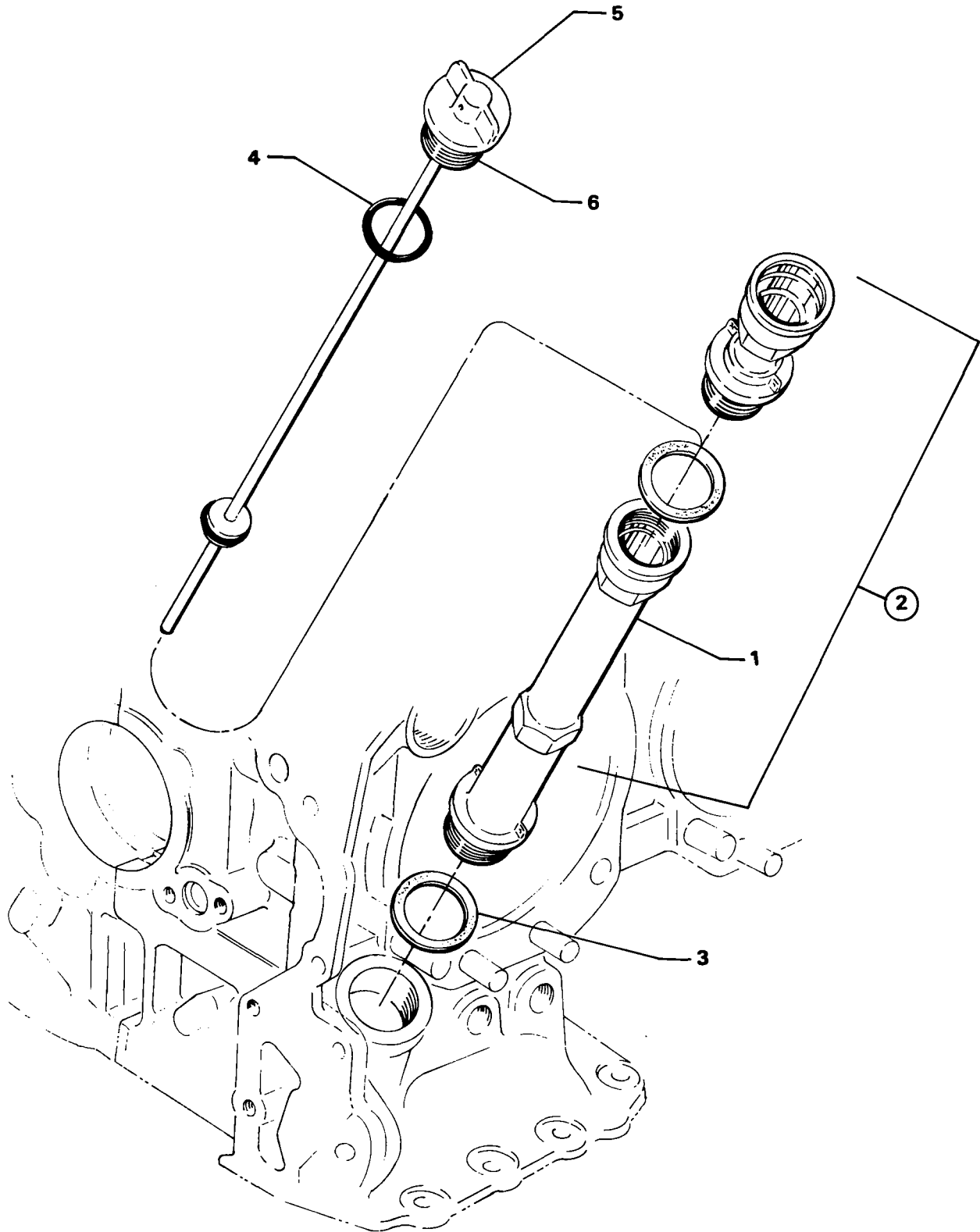


Figure 2 Oil Level Assemblies

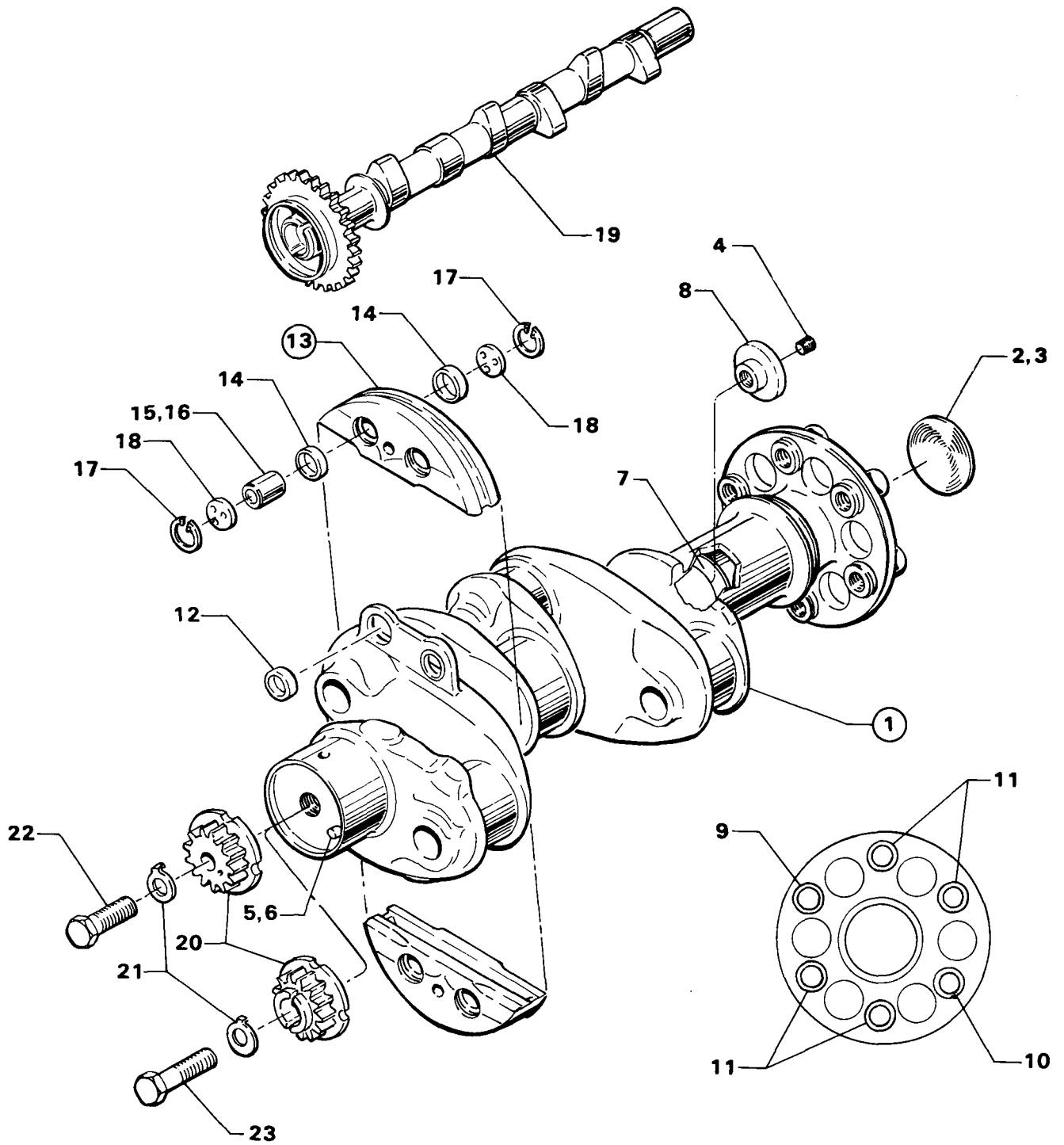


Figure 3 - Crankshaft, Camshaft and Related Parts

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360						LO-360			TO-360				
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D		
1	1028-B	BALL, 11/16 dia.	1														
2	61084	SPRING, Oil pressure relief valve	1														
	LW-11713	SPRING, Oil pressure relief valve															1
3	STD-425	WASHER, No. 10 plain (Max. 9)		un	un	un	un	un	un	un	un	un			un		un
4	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD															
		x 3/32 annular	1														
5	76529	PLUG, Oil relief valve		1	1	1	1	1	1	1	1	1			1		1
6	77808	VALVE ASSY., Oil pressure relief, adjustable									1		1				1
7	LW-11021	BEARING, Crankshaft		4	4	4	4	4	4	4	4	4			4		
	LW-13683	BEARING, Crankshaft															4
8	LW-13884	BEARING, Crankshaft front		2	2	2	2	2	2	2	2	2			2		
	LW-13885	BEARING, Crankshaft front															2
9	LW-13792	SEAL, Crankshaft, oil		1	1	1	1	1	1	1	1	1			1		
	LW-15628	SEAL, Crankshaft, oil															1
10	72075	SEAL, Oil, 5/64 section x 15/32 ID	2														
11	72091	RING, Oil seal, 23/64 ID x 3/32 dia.															
		section	2														
12	72877	BODY, Hydraulic tappet		8	8	8	8	8	8	8	8	8			8		
	73061	BODY, Hydraulic tappet															8

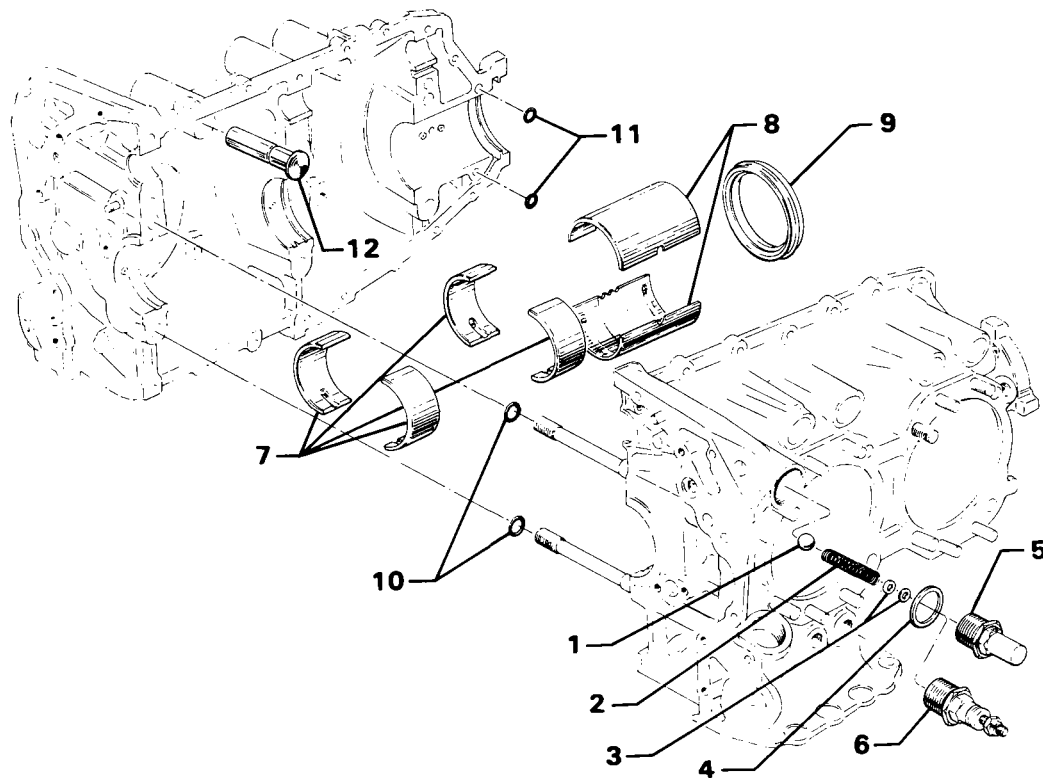
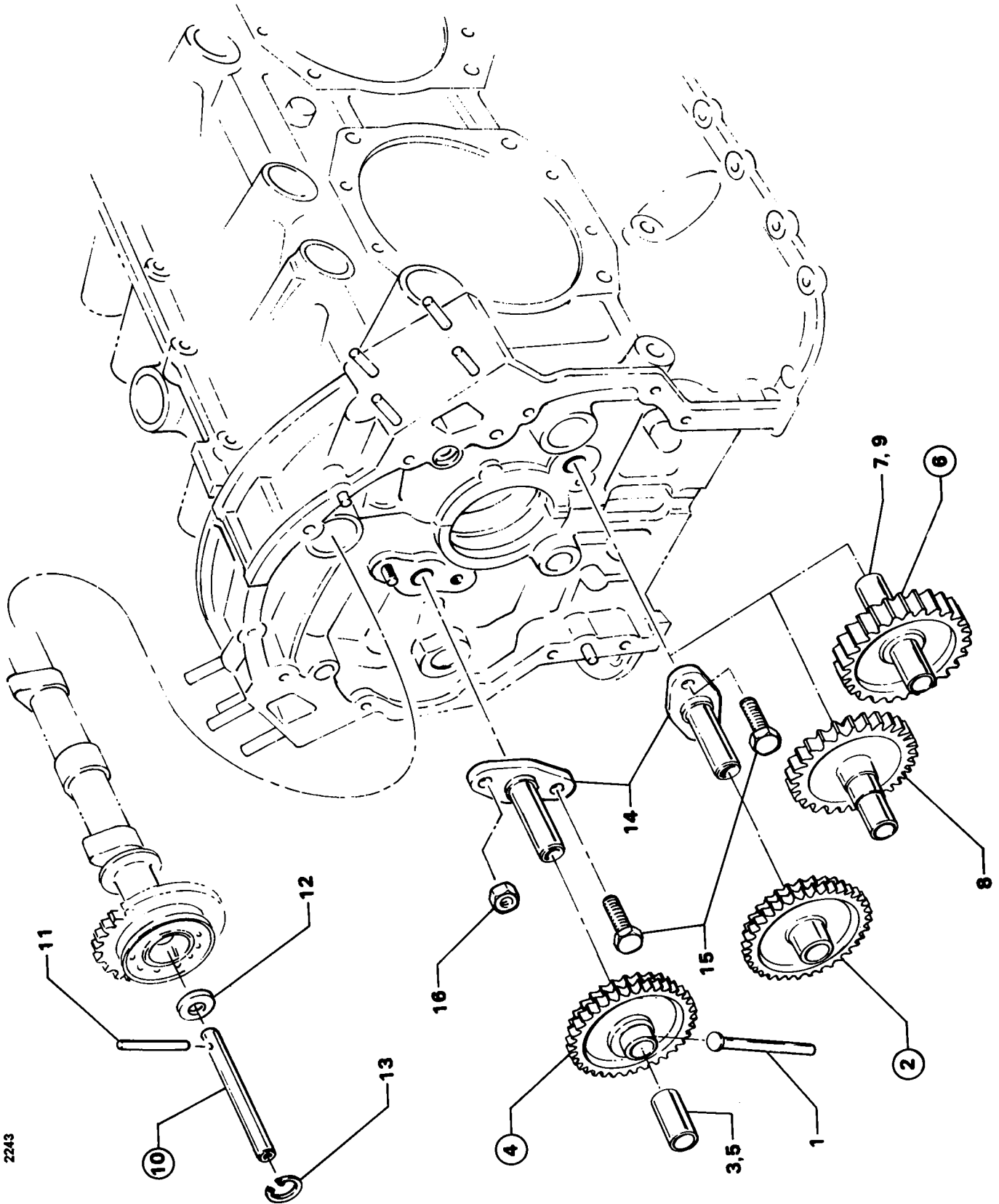


Figure 4.

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

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																	
				O-360												LO-360		TO-360			
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6					A 1 G 6 D	C 1 A 6 D		
1	61544	PLUNGER, Fuel pump, long			1	1	1		1	1	1						1			1	
2	74996	GEAR ASSY., Crankshaft idler, plain					2		2		2										
	74996	GEAR ASSY., Crankshaft idler, plain			1	1	1		1	1	1		1	1							
3	77309	BUSHING, Crankshaft idler gear					2		2		2										
	77309	BUSHING, Crankshaft idler gear			1	1	1		1	1	1		1	1							
4	75072	GEAR ASSY., Crankshaft idler			1	1	1		1	1	1		1	1							
5	77309	BUSHING, Crankshaft idler gear			1	1	1		1	1	1		1	1							
6	LW-10296	GEAR ASSY., Crankshaft idler																			1
	LW-12911	GEAR ASSY., Crankshaft idler															1				
7	LW-10299	SHAFT, Crankshaft idler gear															1				1
8	LW-10286	GEAR ASSY., Crankshaft idler															1				1
9	LW-10298	SHAFT, Crankshaft idler gear															1				1
10	76121	SHAFT ASSY., Tachometer	1																		
11	78368	PIN, 3/16 dia. x 2-21/64 long	1																		
12	76118	SPACER, Tachometer shaft centering	1																		
13	MS16625-1081	RING, Internal retaining	1																		
14	LW-13796	SHAFT, Crankshaft idler gear			2	2	2	2	2	2	2	2	2	2	2						
15	STD-2167	SCREW, 5/16-18 x 7/8 long, hex. hd. dr.			3	3	3	3	3	3	3	3	3	3	3						
16	STD-2168	NUT, 5/16-18 NC-3 slotted shear			1	1	1	1	1	1	1	1	1	1	1						



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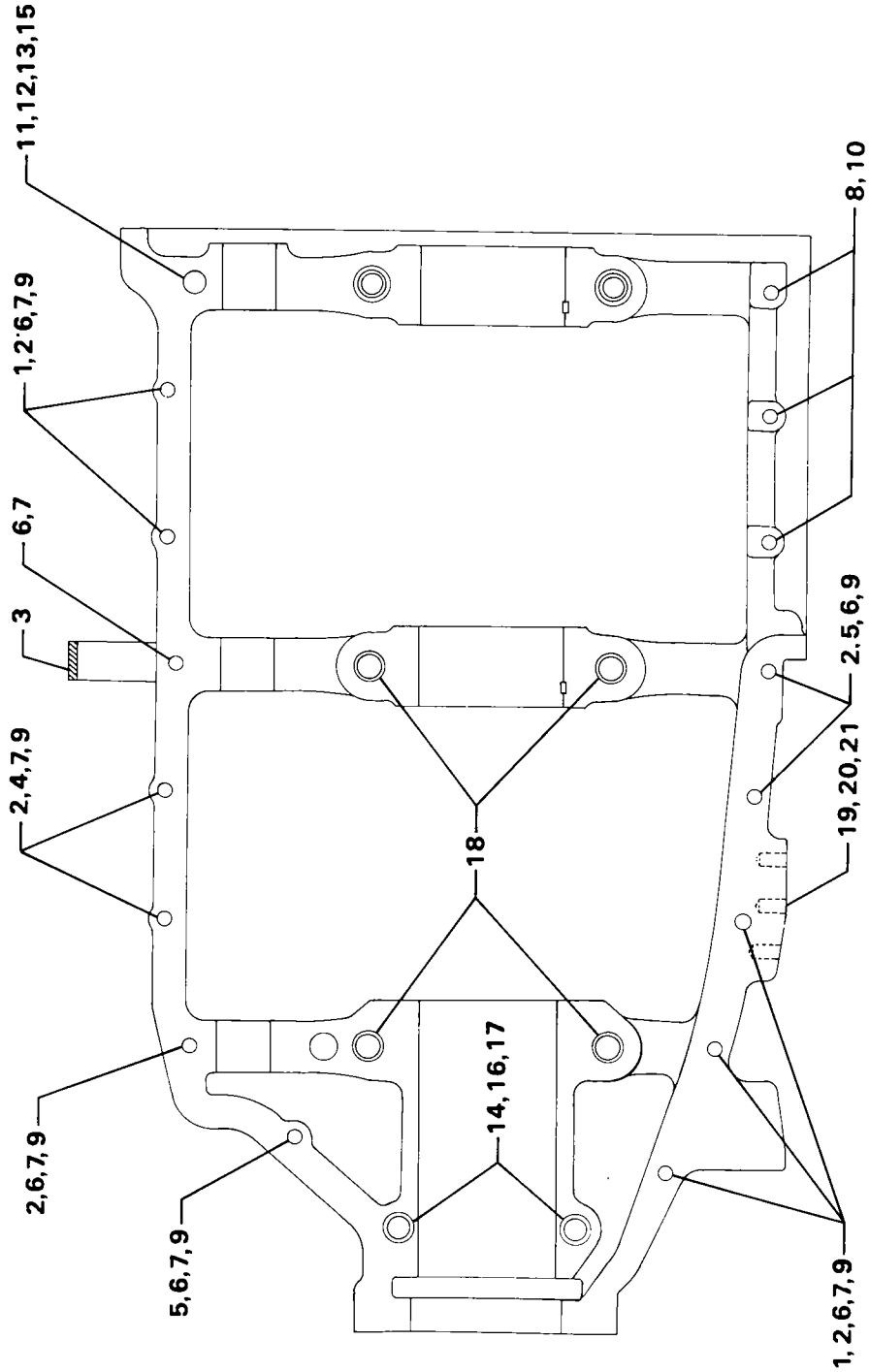
Figure 6 - Crankshaft Idler Gears and Tachometer Drive

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																			
				O-360								LO-360				TO-360							
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6				A 1 G 6 D			C 1 A 6 D			
1	STD-1414	BOLT, 1/4-20 x 1-1/2 long, hex. hd.			8	8	8	8	8	8	8	8	8	8	8				8				7
2	STD-8	WASHER, 1/4 plain			19	19	19	19	19	19	19	19	19	20					19				20
3	60803	STRAP, Lifting			1	1	1	1	1	1	1	1	1	1	1				1				2
4	STD-2084	BOLT, 1/4-20 x 1-3/4 long, hex. hd.			1	1	1	1	1	1	1	1	1	1	1				1				2
5	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex. hd.			3	3	3	3	3	3	3	3	3	4					3				4
6	STD-160	WASHER, 1/4 lock, internal teeth			12	12	12	12	12	12	12	12	12	13					12				12
7	STD-1411	NUT, 1/4-20 plain	9																				
8	STD-1416	BOLT, 1/4-20 x 1-1/2 long, hex. hd. dr. end	3																				
9	STD-8	WASHER, 1/4 plain (Max. 9)	un																				
10	STD-1409	NUT, 1/4-20 slotted shear	3																				
11	STD-33	WASHER, 3/8 plain	3																				
12	AN960-616L	WASHER, 3/8 plain (thick), (Max. 3)	un																				
13	STD-872	NUT, 3/8-24 slotted	1																				
14	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.			2	2	2	2	2	2	2	2	2	2	2	1			2				2
15	STD-33	WASHER, 3/8 plain	2																				
16	STD-678	WASHER, 3/8 lock, internal teeth	2																				
17	STD-596	NUT, 3/8-24 plain	2																				
18	76220	STUD, 1/2-20 x 10-11/16 long	4																				
19	STD-35*	WASHER, 5/16 plain																					
20	STD-475*	WASHER, 5/16 lock, internal teeth																					5
21	STD-1838*	BOLT, 5/16-18 x 15/16 long, hex. hd.																					1

* Install in center hole at rear alternator attaching pad.



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Figure 7 - Crankcase Attaching Parts

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

STARTER RING GEAR SUPPORT ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																
				O-360										LO-360			TO-360			
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6					A 1 G 6 D		
1	LW-16064	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 1.91:1 drive			1	1	1				1	1								
	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive				1		1	1	1		1	1	1						1
	75030	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive								1										
	LW-11519	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive																1		
	LW-16471	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive													1					
2	72566	GEAR, Starter ring, 12/14 pitch			1	1	1	1	1	1	1	1	1	1						1
	LW-10551	GEAR, Starter ring, 12/14 pitch																1		

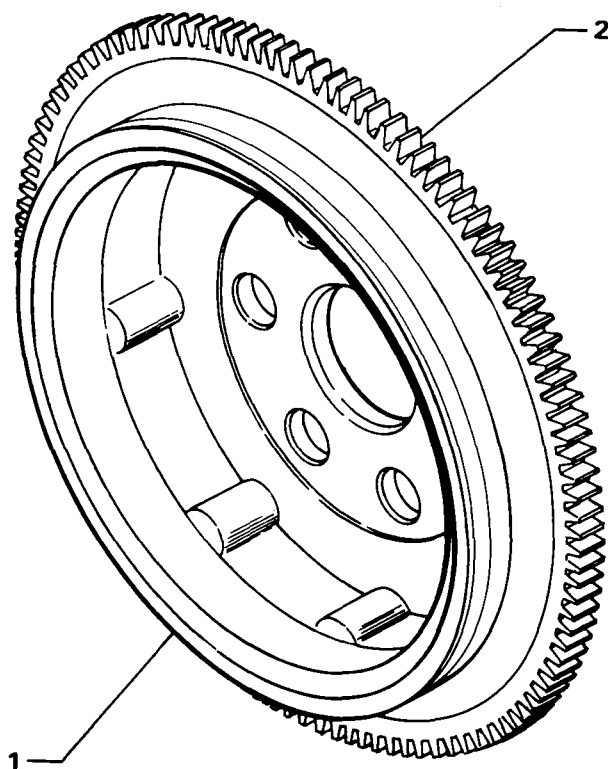


Figure 8.

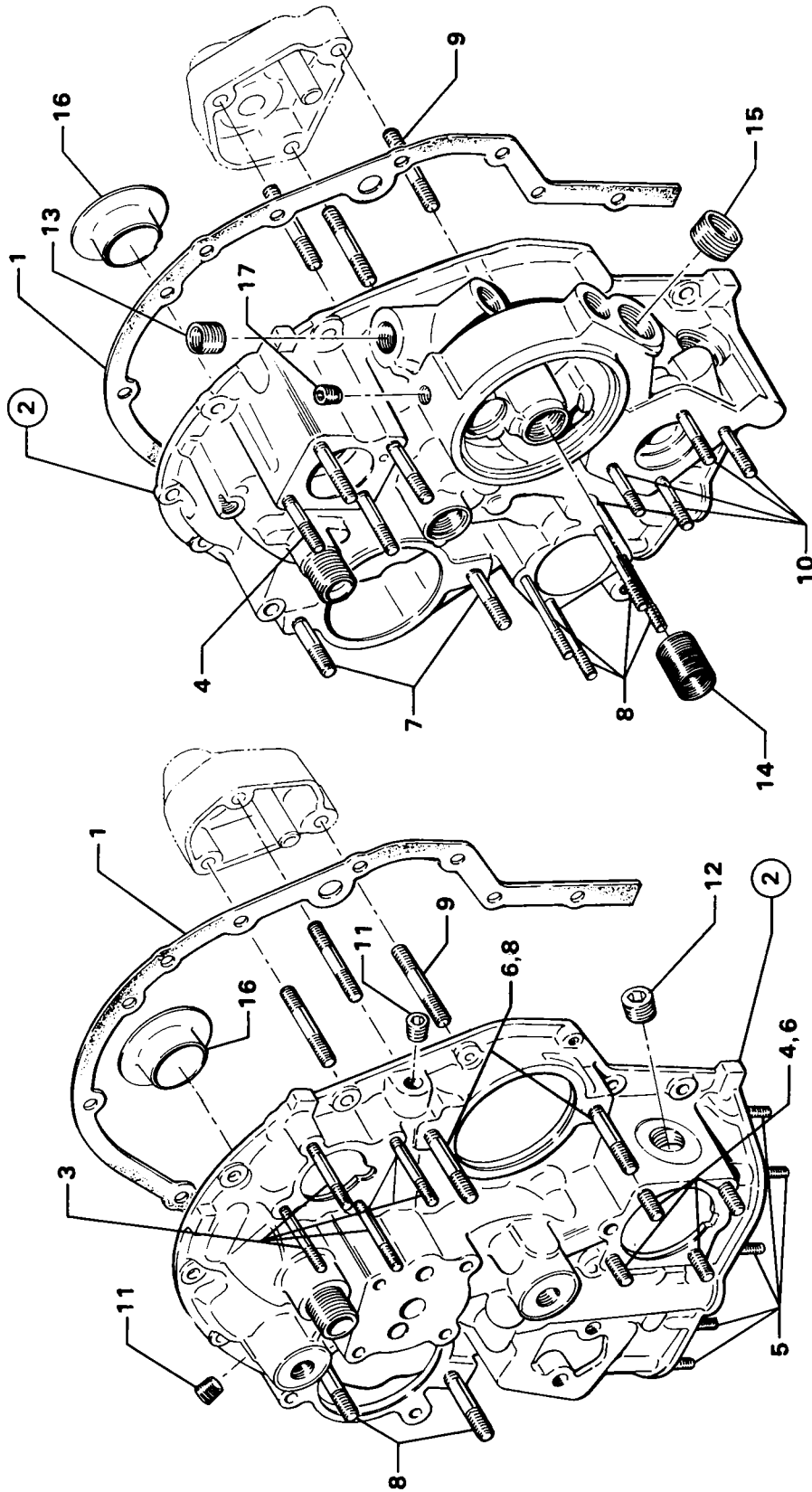


Figure 9 - Accessory Housing Assembly

ACCESSORY HOUSING AND RELATED PARTS PROPELLER GOVERNOR OIL LINE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360						LO-360			TO-360				
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D		
1	75167	TUBE ASSY., Prop. gov. oil line				1	1	1	1								
	LW-12920	TUBE ASSY., Prop. gov. oil line															1
2	STD-1930	HOSE, 3/8 ID x 1.00 long				1	1	1	1								1
3	75165	CLIP, Prop. gov. oil line support				1	1	1	1								1
4	STD-35	WASHER, 5/16 plain						3	3								3
5	STD-475	WASHER, 5/16 lock, internal teeth						1	1								1
6	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.						1	1								1
7	LW-16266-25-38	CLAMP				1	1	1	1								1
8	STD-700*	ELBOW, 3/8 flared tube & 1/4 NPT, 90°				1	1	1	1								1
9	74070**	ELBOW, 3/8 flared tube & 9/16-18 str. thd., adj. 45°				1	1	1	1								1

* Assemble in right crankcase, front.

** Assemble in prop. gov. adapter except for LO-360-A1G6D assemble in accessory housing.

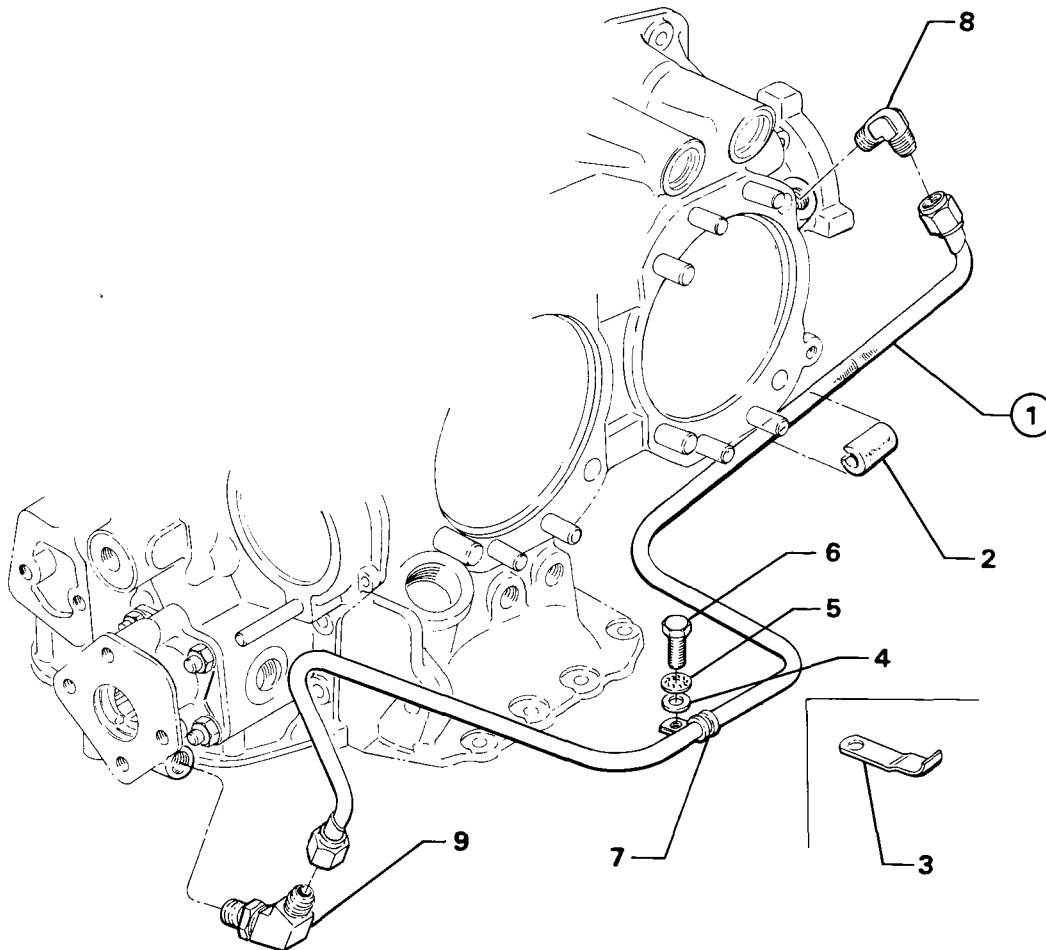
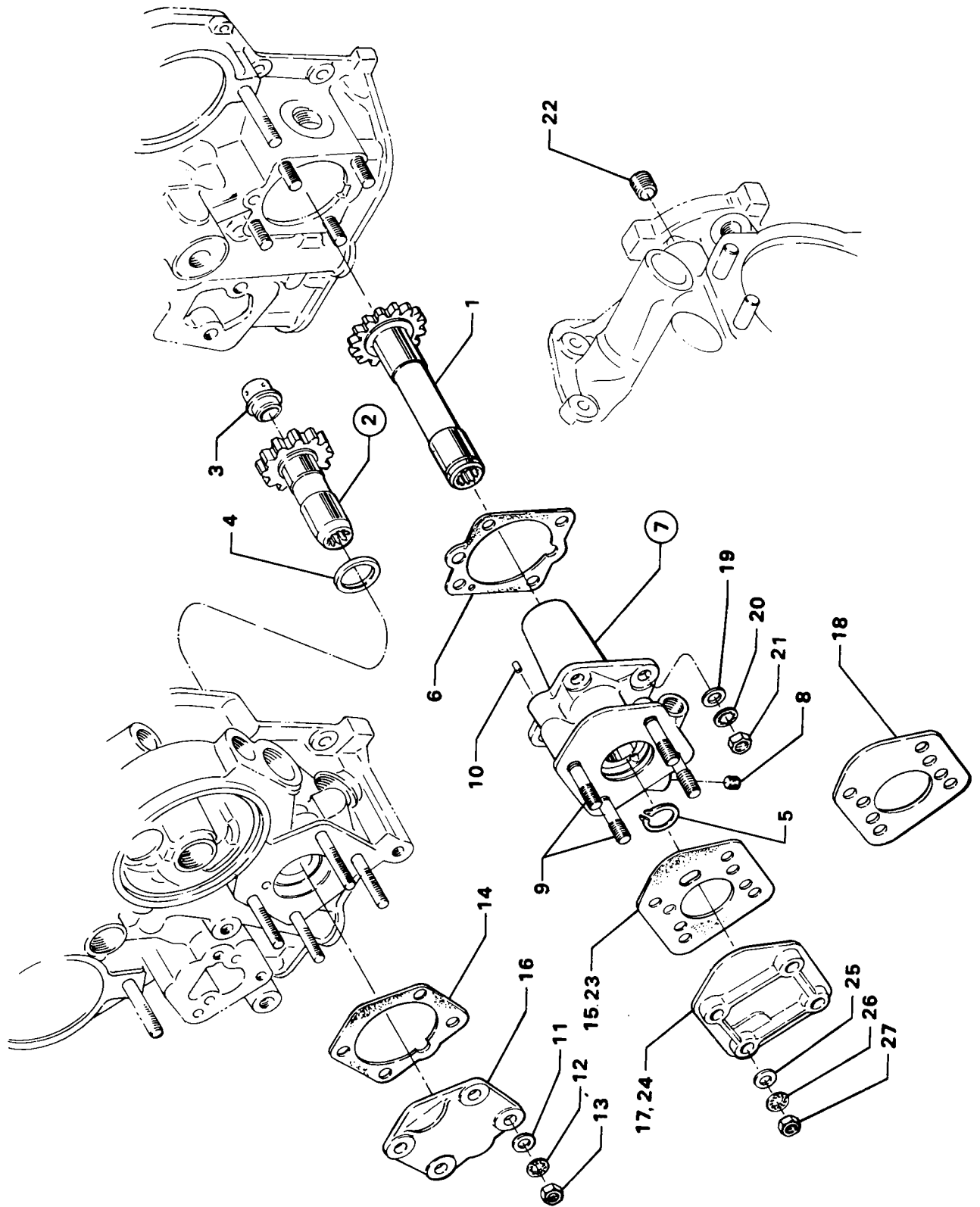


Figure 11.



2241

Figure 12 - Propeller Governor Drive and Covers

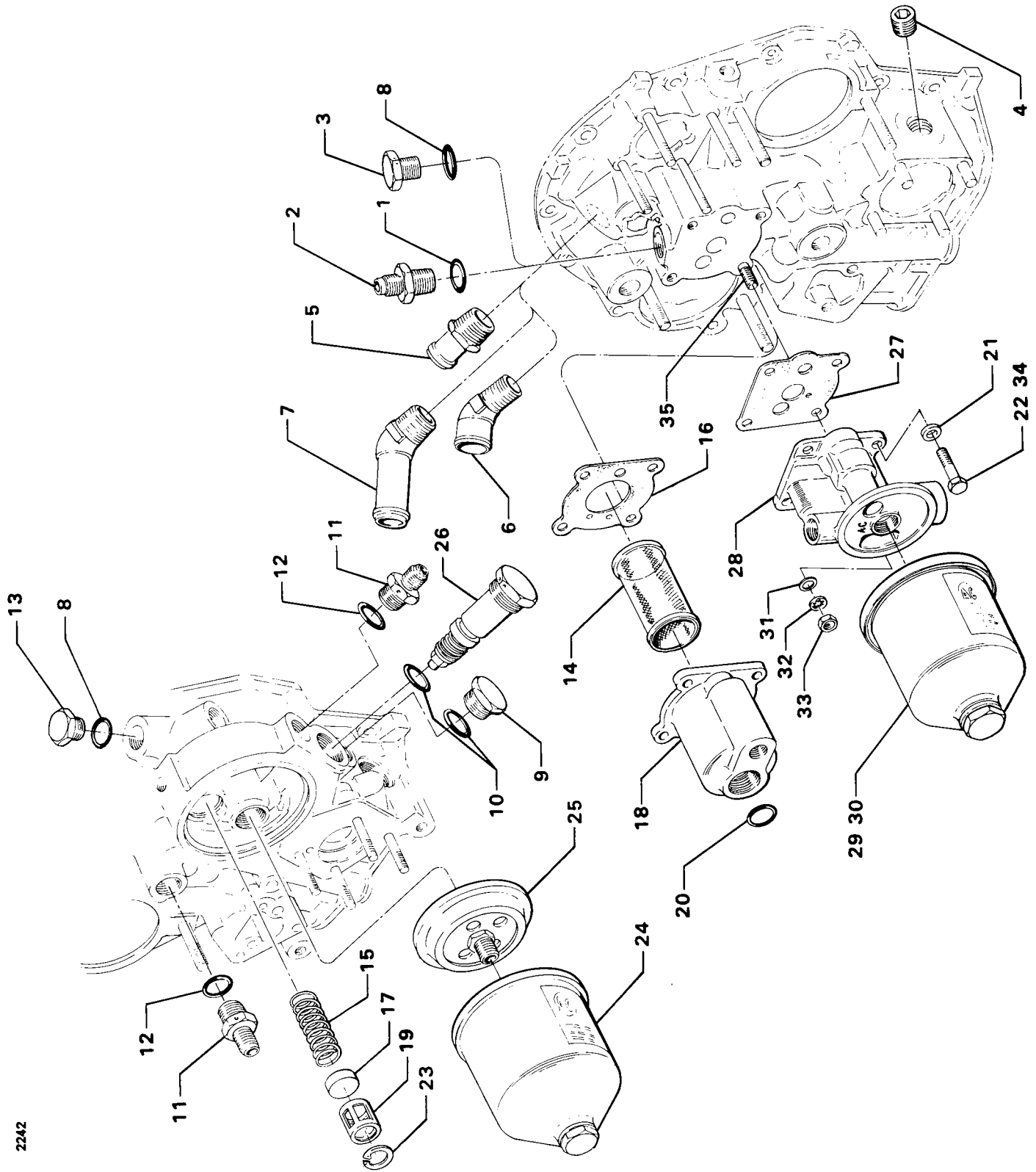
ACCESSORY HOUSING AND RELATED PARTS

OIL PRESSURE SCREEN FILTER AND OIL COOLER BYPASS VALVE

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																		
				O-360										LO-360		TO-360						
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D							
1	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 annular			1	1	1	1	1	1	1	1	1	1								
2	69675	CONNECTOR, Accy. hsg. to oil cooler inlet hose			1	1	1	1	1	1	1	1	1	1								
3	62417	PLUG, Oil cooler bypass						1		1	1	1										
4	STD-784	PLUG, 3/8 pipe, Allen			2	2	2	2	2	2	2	2	2	2								
5	71140*	FITTING, Breather			1	1	1	1	1	1	1	1	1	1								
	72413*	FITTING, Breather, 120° elbow																				1
6	MS20823-8	ELBOW, 1/2 flared tube, 3/8 pipe thd.																				2
7	AN844-10D	ELBOW, Pipe thd. & 5/8 ID hose, 45°																				1
8	MS29512-10+	SEAL, Oil, 3/32 section x 45/64 ID																				1
9	AN814-10L+	PLUG, Turbo drain back																				1
10	MS29512-10++	SEAL, Oil, 3/32 section x 45/64 ID																				2
11	LW-14828++	REDUCER, 1/2 tubing to 5/8 tubing																				2
12	STD-294*+	GASKET, 7/8 OD x 5/8 ID x 3/32 annular																				2
13	STD-294**+	GASKET, 7/8 OD x 5/8 ID x 3/32 annular																				1
	1540*+	PLUG, Thermometer well																				2
14	1540**+	PLUG, Thermometer well																				1
	62817	SCREEN ASSY., Oil pressure			1	1	1	1		1	1	1	1	1								
15	LW-10321	SPRING, Oil filter bypass valve																				1
16	61173	GASKET, Oil pressure housing			1	1	1	1		1	1	1	1	1								1
17	76539	SEAT, Oil relief valve																				1
18	69510	HOUSING, Thermostatic valve and oil pressure screen			1	1	1	1		1	1	1	1	1								1
	LW-10320	SLEEVE, Oil filter bypass valve																				1
20	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 annular			1	1	1	1		1	1	1	1	1								1
21	STD-8	WASHER, 1/4 plain			4	4	4	4		4	4	4	4	4								
22	STD-1856	SCREW, 1/4-20 x 31/32-1.00 long, hex. hd., slotted			4	4	4	4		4	4	4	4	4								
23	MS16625-1100	RING, Internal retaining																				1
24	LW-13906	FILTER ASSY., Oil, short																				1
25	LW-13904	KIT, Converter plate, oil filter																				1
26	75944	VALVE ASSY., Temp. control oil cooler bypass																				
27	LW-12795	GASKET, Oil filter adapter	1																			
28	77852	OIL FILTER BASE ASSEMBLY								2												2
29	LW-13215	OIL FILTER, Short (spin-on type)								1												1
30	LW-13216	OIL FILTER, Long (spin-on type)								1												1
31	STD-8	WASHER, 1/4 plain								4												4
32	STD-160	WASHER, 1/4 lock, internal teeth								1												1
33	STD-1411	NUT, 1/4-20 plain								1												1
34	STD-1856	SCREW, 1/4-20 x 1.00 long, hex. hd., self-locking								3												3
35	25C-10	STUD, 1/4-20 x 1-1/4 long								1												1

* Assemble in accessory housing.
 ** Assemble in accessory housing breather hole.
 ++ Assemble in accessory housing at accessory oil return boss.

++ Assemble in oil cooler inlet and outlet bosses.
 *+ Assemble in accessory housing at oil temp. and oil press. bosses.
 **+ Assemble in accessory housing at top oil temp. boss.



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Figure 15 - Oil Pressure Screen Filter and Oil Cooler Bypass Valve

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

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360						LO-360			TO-360						
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D				
1	LW-11750	CONNECTING ROD ASSY.		4	4	4	4	4	4	4	4	4	4			4			
	LW-13422	CONNECTING ROD ASSY.																	4
2	LW-13923	BUSHING, Connecting rod, upper	4																
3	75061	BOLT, Connecting rod		8	8	8	8	8	8	8	8	8	8	8		8			
	LW-12596	BOLT, Connecting rod																	8
	LW-12595	BOLT, Connecting rod																	8
4	LW-12186	NUT, Connecting rod bolt	8																
5	LW-13521	BEARING, Connecting rod		8	8	8	8	8	8	8	8	8	8		8				
	LW-13209	BEARING, Connecting rod																	8
6	75089	PISTON, Comp. ratio 8.50:1			4	4	4	4	4	4	4	4	4		4				
	75413	PISTON, Low compression		4							4								
	LW-10545	PISTON, Comp. ratio 7.3:1																	4
7	LW-14078	PIN, Piston		4	4	4	4	4	4	4	4	4	4		4				
	LW-14077	PIN, Piston																	4
8	60828	PLUG, Piston pin		8	8	8	8	8	8	8	8	8	8		8				
	LW-11775	PLUG, Piston pin																	8
9	74241	RING, Piston, compression	8																
10	73857	RING, Piston, oil regulating, expander type	4																

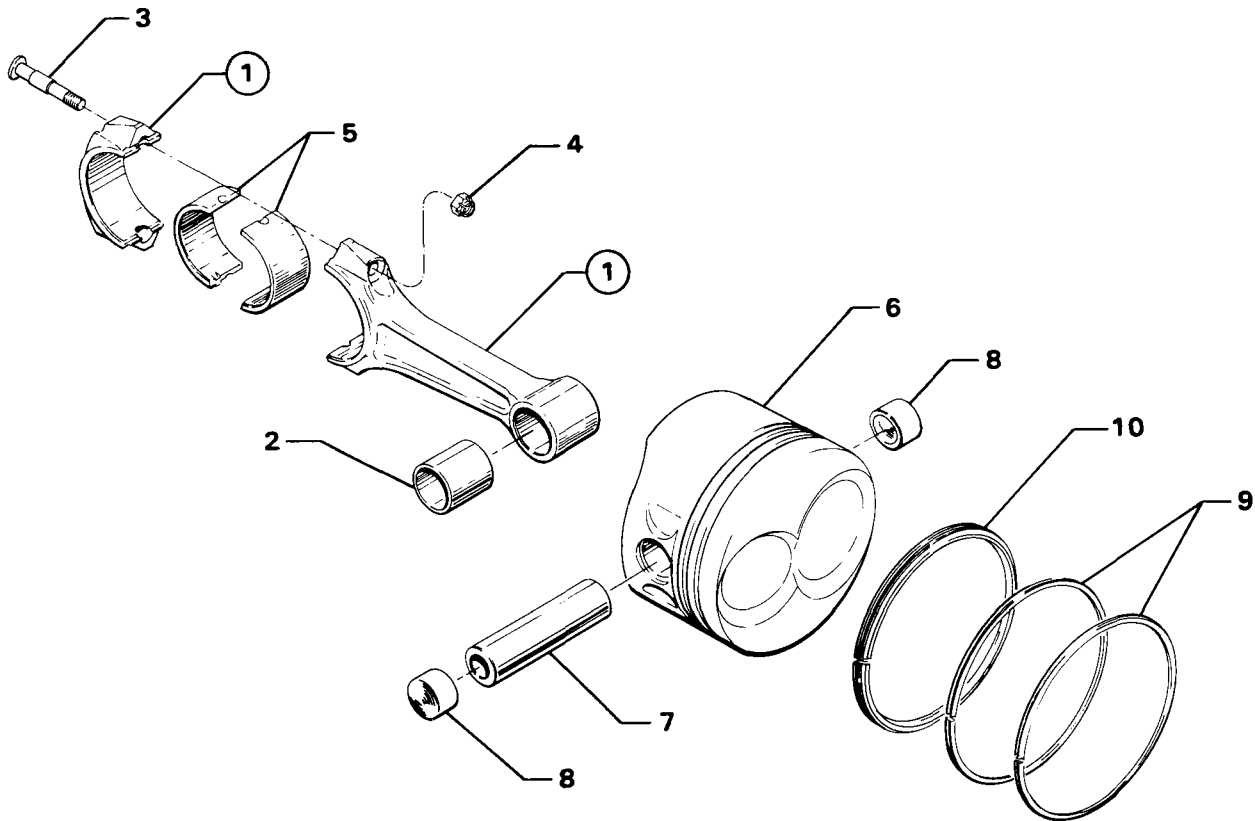


Figure 16.

CYLINDER, PISTON AND VALVE TRAIN CYLINDER ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																
				O-360										LO-360			TO-360			
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6				A 1 G 6 D		C 1 A 6 D	
1	LW-12427	CYLINDER AND HEAD ASSY., Nitrided		4	4	4	4	4	4	4	4	4	4	4	4			4		
	LW-13964	CYLINDER AND HEAD ASSY., Nitrided																		4
2	72057	SEAT, Intake valve		4	4	4	4	4	4	4	4	4	4	4			4			
	LW-12688	SEAT, Intake valve																		4
3	72058	SEAT, Exhaust valve		4	4	4	4	4	4	4	4	4	4	4			4			
	71894	SEAT, Exhaust valve																		4
4	61681	GUIDE, Valve, intake		4	4	4	4	4	4	4	4	4	4	4			4			
	76077	GUIDE, Valve, intake																		4
5	74230	GUIDE, Valve, exhaust		4	4	4	4	4	4	4	4	4	4	4			4			
	LW-14045	GUIDE, Valve, exhaust (ni-resist)																		4
6	66796	INSERT, Spark plug, 18-1.5MM		8	8	8	8	8	8	8	8	8	8	8			8			
7	69260	INSERT, Spark plug (long reach)																		8
8	STD-1872	INSERT, 1/8-27 Heli-coil taper, pipe thd.		8	8	8	8	8	8	8	8	8	8	8			8			
9	72706	INSERT, Heli-coil, 1/4-20 NC x 3/8 long, self-locking																		8
10	31C-12	STUD, 5/16-18 x 1-1/2 long		8	8	8	8	8	8	8	8	8	8	8			8			
11	25C-8	STUD, 1/4-20 x 1.00 long																		8
12	25C-9	STUD, 1/4-20 x 1-1/8 long		4	4	4	4	4	4	4	4	4	4	4			4			
13	MS20823-6D	ELBOW, 45°, 3/8 flared tube		4	4	4	4	4	4	4	4	4	4	4			4			
14	66610	BUSHING, Rocker shaft		16	16	16	16	16	16	16	16	16	16	16			16			
15	66670	BUSHING, Rocker shaft, inner																		16
16	25C-10	STUD, 1/4-20 x 1-1/4 long																		16
17	STD-1353	INSERT, Heli-coil, no. 10-24 x 3/8 long, notched																		8
18	LW-13123	BAFFLE, Center fin pack																		4
19	STD-8	WASHER, 1/4 plain																		4
20	STD-1925	SCREW, 1/4-20 x 5/8 long, pan. hd. self-locking																		4
21	1102	PLUG, 1/8 pipe		4	4	4	4	4	4	4	4	4	4	4			4			8

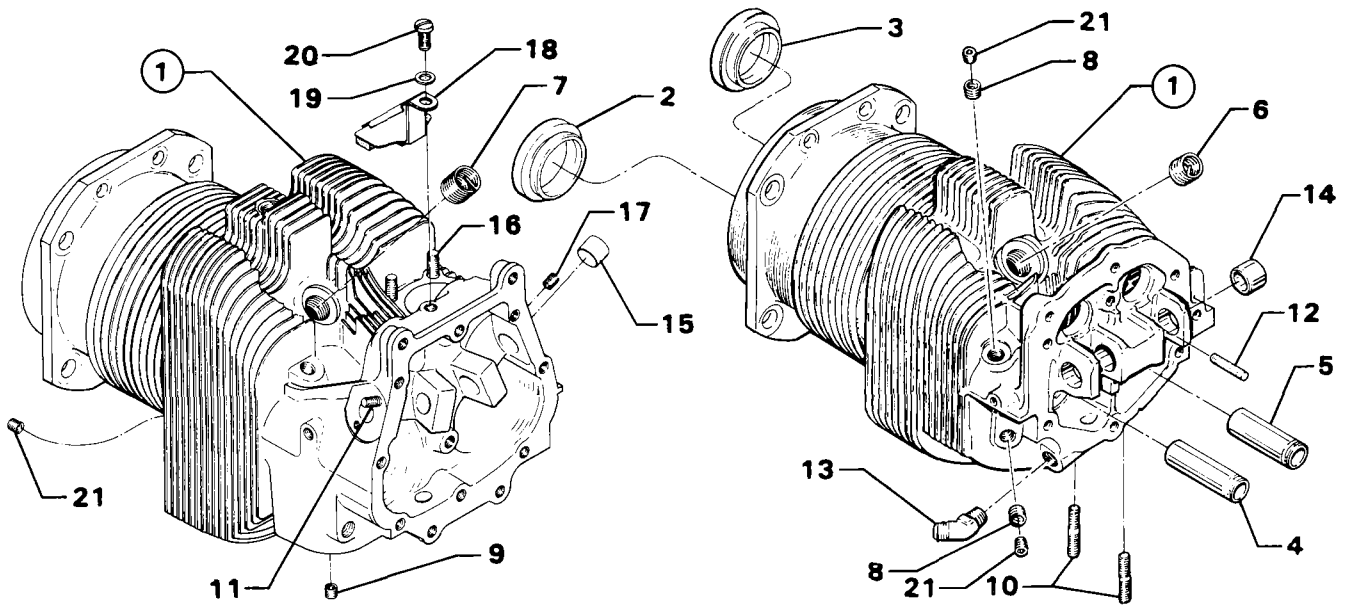


Figure 17.

CYLINDER, PISTON AND VALVE TRAIN CYLINDER RELATED PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																	
				O-360										LO-360			TO-360				
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6					A 1 G 6 D			C 1 A 6 D
1	73434	ROD ASSY., Push - A total		un	un	un	un	un	un	un	un	un	un	un	un				un		
	73435	ROD ASSY., Push - of 8		un	un	un	un	un	un	un	un	un	un	un	un				un		
	73436	ROD ASSY., Push - push rods		un	un	un	un	un	un	un	un	un	un	un	un				un		
	73437	ROD ASSY., Push - required		un	un	un	un	un	un	un	un	un	un	un	un				un		
	73462	ROD ASSY., Push - A total																		un	
	73463	ROD ASSY., Push - of 8 push																		un	
	73464	ROD ASSY., Push - rods required																		un	
2	69444	ROCKER ASSY., Valve, intake		4	4	4	4	4	4	4	4	4	4	4	4			4			
3	72117	ROCKER ASSY., Valve								8											
4	60398	BUSHING, Valve rocker		4	4	4	4	4	4	4	4	4	4	4			4				
	60398	BUSHING, Valve rocker								8											
5	76266	ROCKER ASSY., Valve																			8
6	76242	BUSHING, Valve rocker																			8
7	74636	ROCKER ASSY., Valve, exhaust		4	4	4	4	4	4	4	4	4	4	4			4				
8	74637	BUSHING, Valve rocker, exhaust		4	4	4	4	4	4	4	4	4	4	4			4				
9	71549	WASHER, Valve rocker thrust																			8
10	LW-13790	SHAFT, Valve rocker		4	4	4	4	4	4	4	4	4	4	4			4				
	72626	SHAFT, Valve rocker																			8
11	LW-12892	THRUST BUTTON, Rocker shaft		8	8	8	8	8	8	8	8	8	8	8			8				
	LW-11665	THRUST BUTTON, Rocker shaft																			16
12	66732	GASKET, Valve rocker shaft cover																			8
13	72710	COVER, Valve rocker shaft																			8
14	72709	SCREW, 1/4-20 x 5/8 long, self-sealing																			8
15	75906	GASKET, Rocker box cover		4	4	4	4	4	4	4	4	4	4	4			4				
	76036	GASKET, Rocker box cover																			4
16	61247	COVER, Rocker box		4	4	4	4	4	4	4	4	4	4	4			4				
17	72310	COVER ASSY., Rocker box (left)								2											
18	72380	COVER ASSY., Rocker box (right)								2											
19	LW-14433	COVER ASSY., Rocker box																			4
20	STD-1925	SCREW, 1/4-20 x 5/8 long, pan. hd., self-locking		24	24	24	24	24	24	24	24	24	24	24			24				
21	STD-2059	SCREW, 1/4-20 x 11/16 long, pan. hd., self-locking																			32
22	71481	RING, Oil seal, 3/32 dia. x 4-27/32 ID	4																		
23	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 thick	2																		
24	383-B	NUT, 3/8-24 plain	16																		
25	STD-2090	NUT, 1/2-20 plain	18																		
26	74494	PLATE, Spark plug reach caution																			4
27	65321	GASKET, Exhaust flange		4	4	4	4	4	4	4	4	4	4	4							
	77611	GASKET, Exhaust flange															4				
28	61260	FLANGE, Exhaust, stainless		4	4	4	4		4	4	4	4									
29	STD-35	WASHER, 5/16 plain		8	8	8	8	8	8	8	8	8	8	8			8				
30	STD-475	WASHER, 5/16 lock, internal teeth		8	8	8	8	8	8	8	8	8	8	8			8				
31	STD-1410	NUT, 5/16-18 plain		8	8	8	8	8	8	8	8	8	8	8			8				

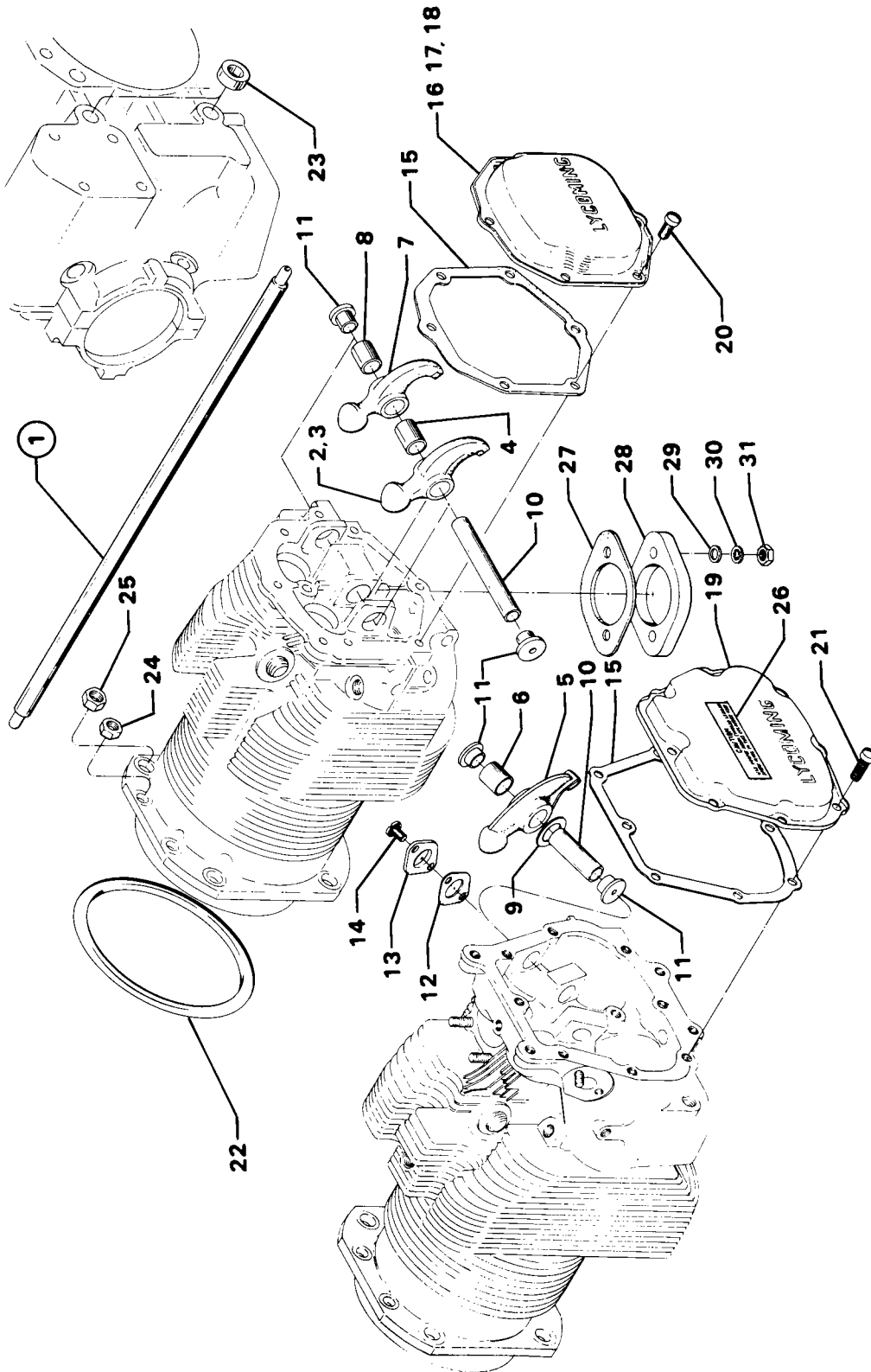


Figure 18 - Cylinder Related Parts

CYLINDER, PISTON AND VALVE TRAIN VALVE ASSEMBLY

FIG. REF	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360										LO-360			TO-360		
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	D 2 E	F 1 A	6	A 1 G 6 D				C 1 A 6 D	
1	73938	VALVE, Intake		4	4	4	4	4	4	4	4	4	4	4	4		4		
	LW-13262	VALVE, Intake (hollow stem) rotator type																	4
2	74541	VALVE, Exhaust (rotator type)		4	4	4	4	4	4	4	4	4	4	4		4			
	LW-15732	VALVE, Exhaust (rotator type)																4	
3	LW-11795	SPRING, Valve, inner		8	8	8	8	8	8	8	8	8	8	8		8			
4	LW-11797	SPRING, Valve, auxiliary																8	
5	LW-11800	SPRING, Valve, outer		8	8	8	8	8	8	8	8	8	8	8		8			
	LW-11796	SPRING, Valve, outer																8	
6	65441	SEAT, Valve spring, lower, intake		4	4	4	4	4	4	4	4	4	4	4		4			
	LW-14893	SEAT, Valve spring, lower, intake																4	
7	LW-13323	SEAT, Valve spring, lower, exhaust		4	4	4	4	4	4	4	4	4	4	4		4			
	LW-14894	SEAT, Valve spring, lower, exhaust																4	
8	LW-10077	SEAT, Valve spring, upper, intake		4	4	4	4	4	4	4	4	4	4	4		4			
	69532	SEAT, Valve spring, upper, intake																4	
9	LW-16475	SEAT, Valve spring, upper, exhaust (rotator type)	4																
10	60009	KEY, Valve, intake		8	8	8	8	8	8	8	8	8	8	8		8			
	72050	KEY, Valve, intake																8	
11	MS13997-3	KEY, Valve, exhaust (rotator type)	8																
12	62388	CAP, Valve stem																4	
13	MS13998-3	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	8	8	8	8	8		8			
17	LW-14018	TUBE ASSY., Push rod shroud																8	
18	LW-14995	SPRING, Shroud tube		4	4	4	4	4	4	4	4	4	4	4		4			
19	LW-13565	SPRING, Shroud tube																8	
20	LW-12272	LOCKPLATE, Shroud tube		4	4	4	4	4	4	4	4	4	4	4		4			
21	LW-13618	SPACER, Shroud tube																8	
22	STD-1411	NUT, 1/4-20 plain		4	4	4	4	4	4	4	4	4	4	4		4			
23	LW-13619	WASHER, 25/32 ID x 1-1/4 OD x .040 - .046 thick																8	
24	62922	SEAL, Shroud tube		8	8	8	8	8	8	8	8	8	8	8		8			
25	70310	SEAL, Shroud tube		8	8	8	8	8	8	8	8	8	8	8		8		16	

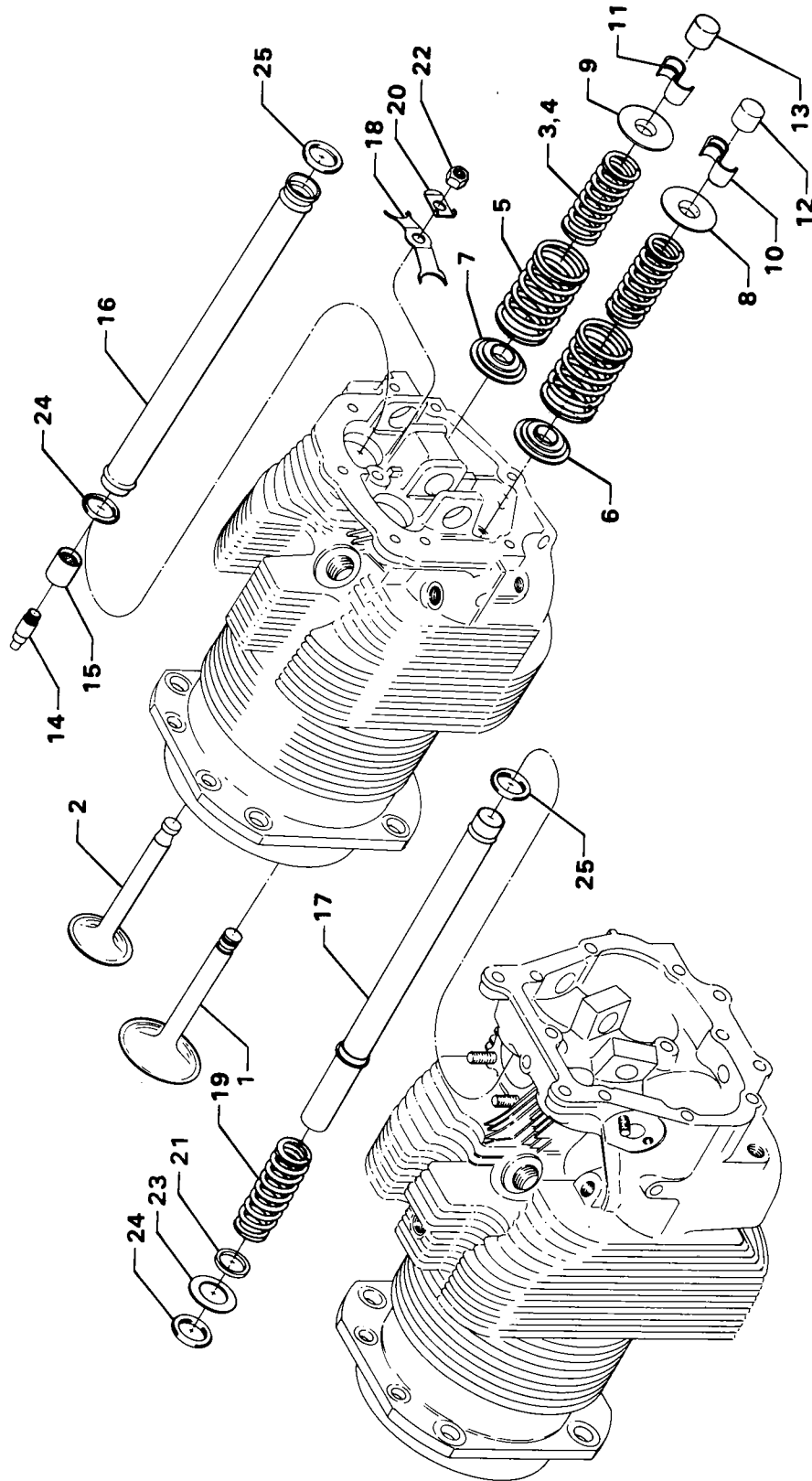


Figure 19.

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

P/N 01P19762-1-43		
LW-16266-25-25	CLIP, ONE WIRE	2
LW-14060	CLIP, TWO WIRE	3
STD-8	WASHER, .250 PLAIN	8
STD-1874	SCREW, .250-20 X .81 LONG	6
76734	ZIP STRAP	8
LW-16266-25-50	CLAMP	1
STD-696	WASHER, .250 PLAIN (THIN)	4
STD-1916	SCREW, .250-20 X 1.13 LONG	3
LW-M-2375	PLATE, SPARK PLUG CABLE	2

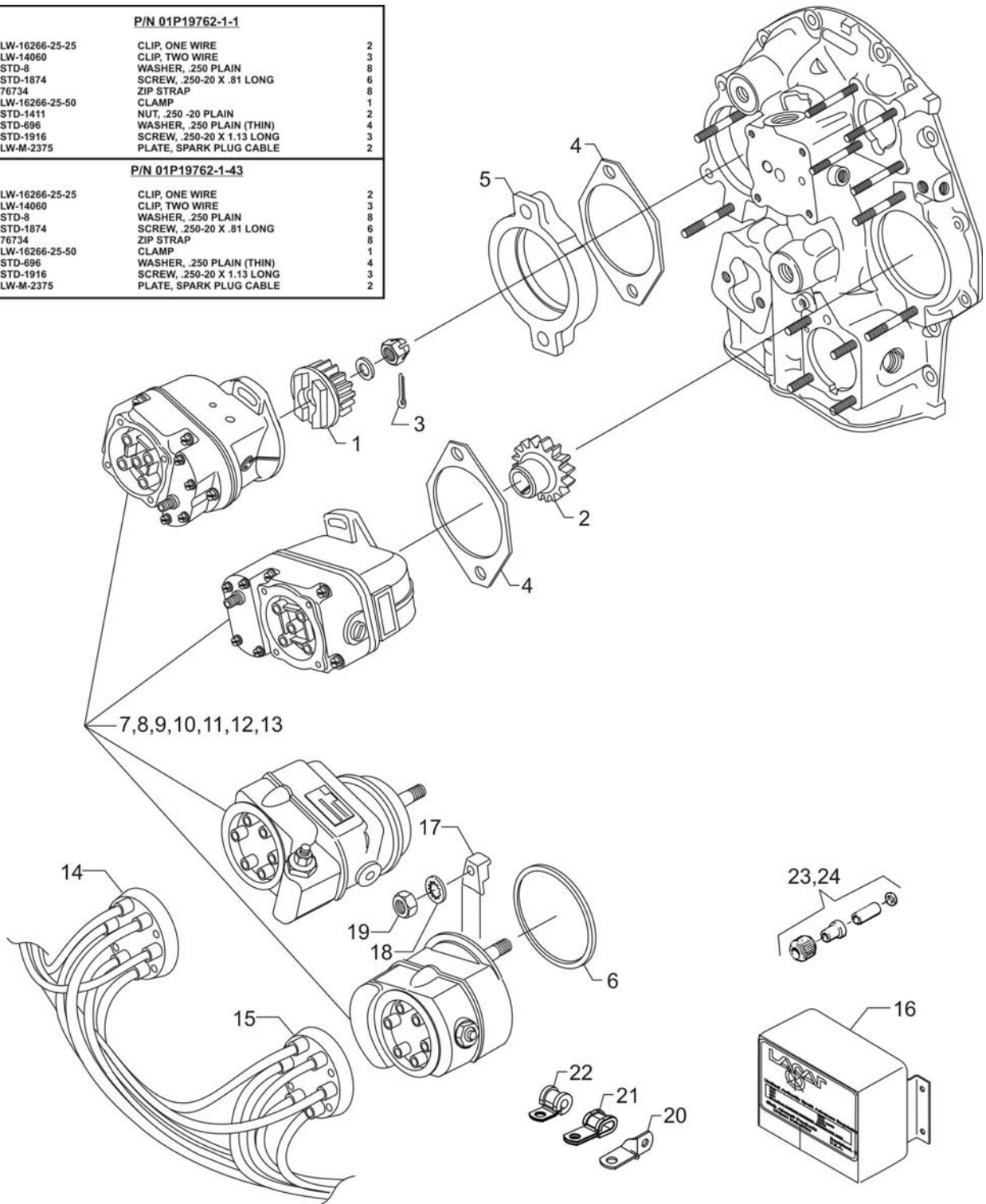
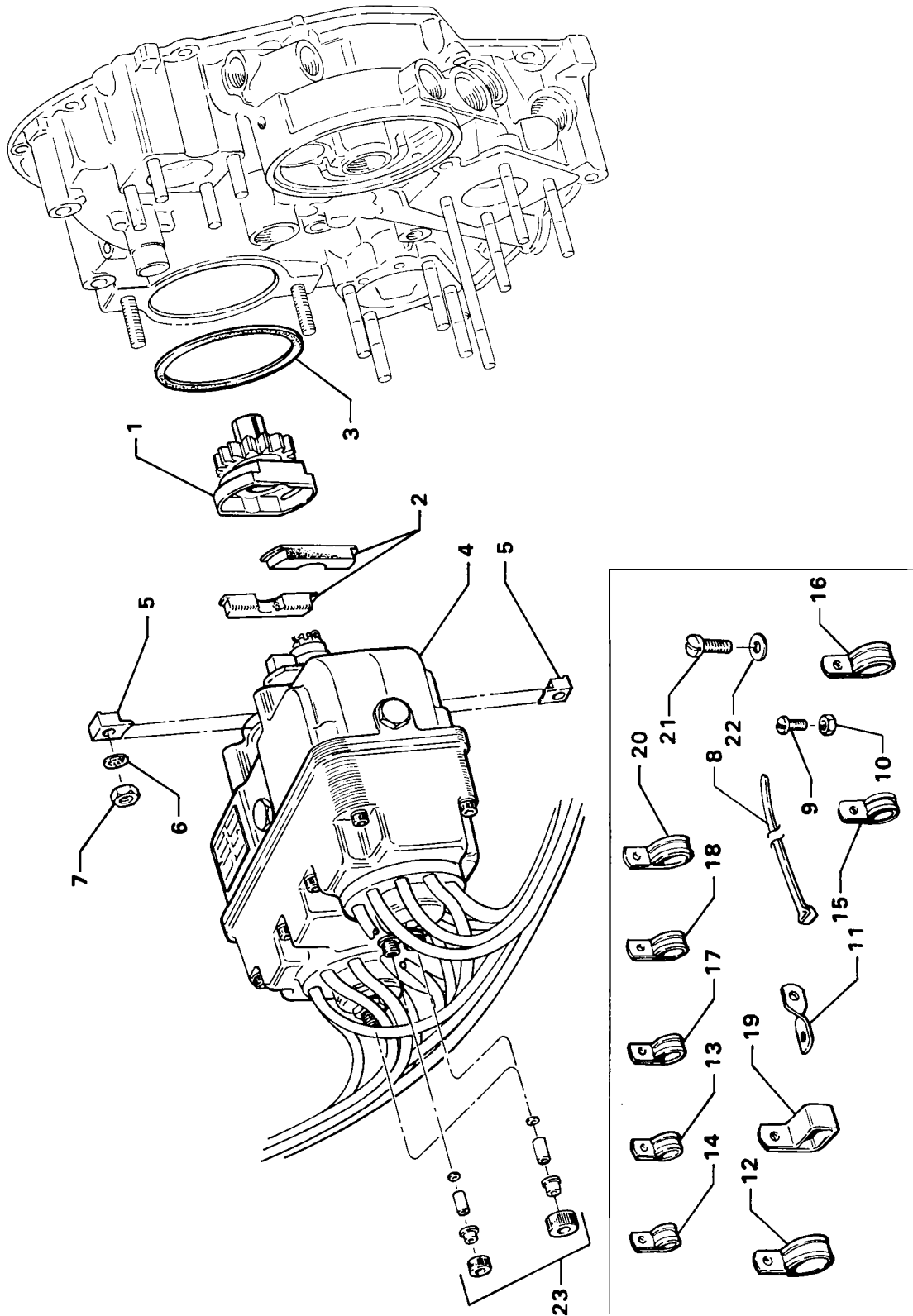


FIGURE 21. MAGNETO DRIVES AND MAGNETOS



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Figure 22 - Magnetos Drives and Magnetos (Dual Magnetos)

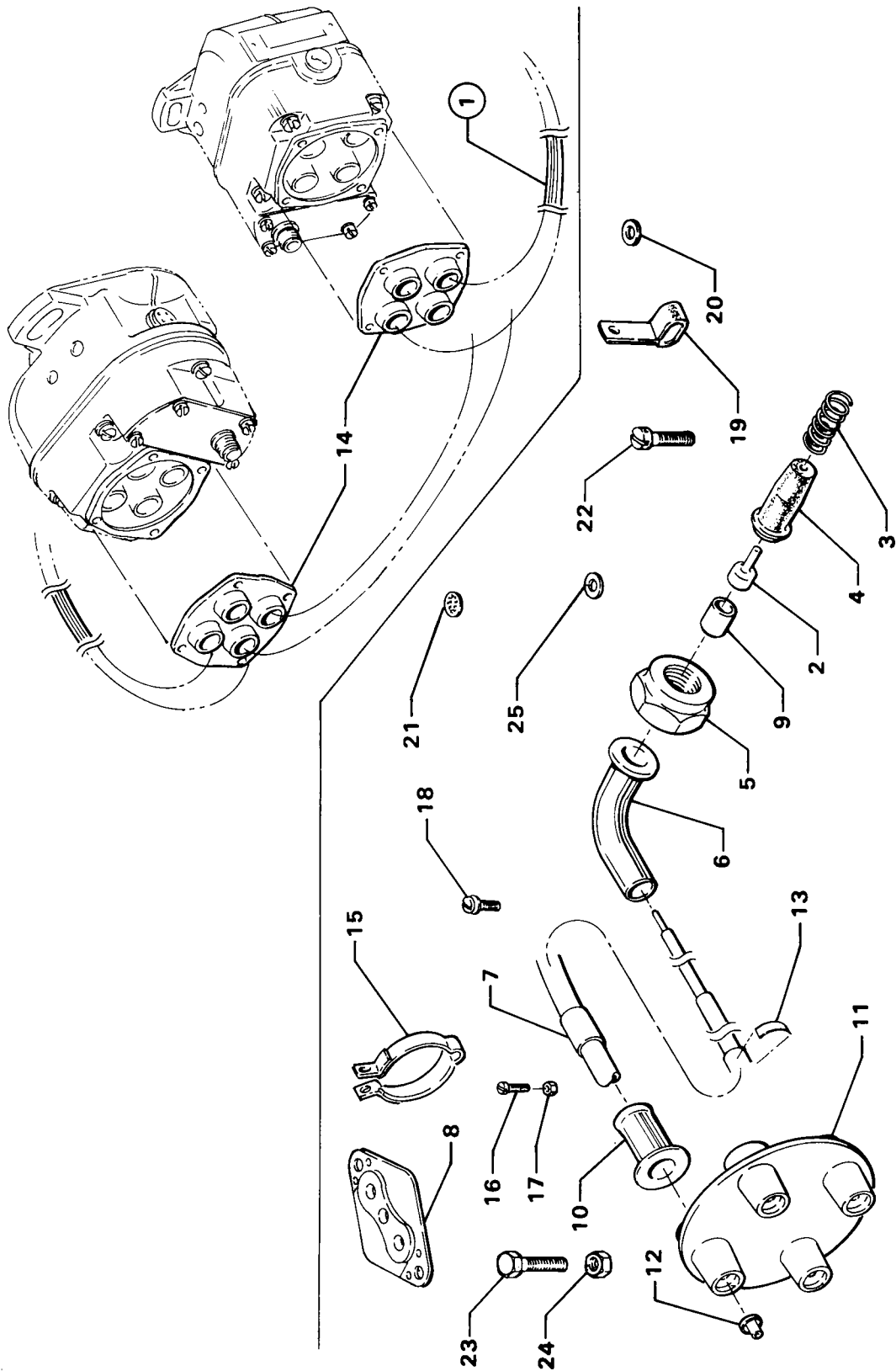
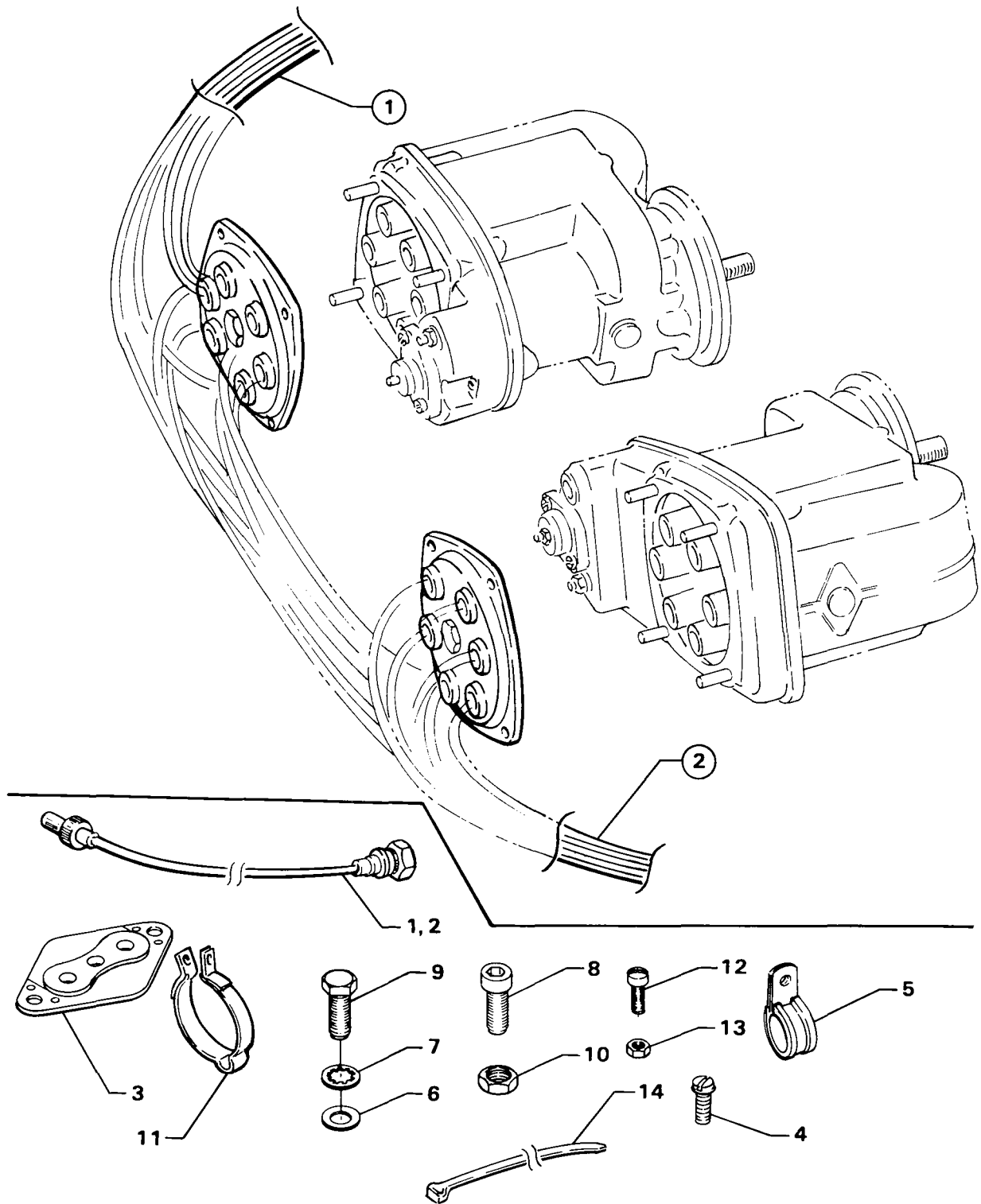


Figure 23 - Ignition Harness and Lead Assembly (Textron Lycoming)

IGNITION SYSTEM IGNITION HARNESS AND LEAD ASSEMBLY (SLICK)

FIG. REF. 24	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY														
				O-360						LO-360			TO-360					
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D			
1	LW-M-2403	HARNESS ASSY., Left magneto				1					1							
2	LW-M-2404	HARNESS ASSY., Right magneto				1					1							
3	LW-M-2375	PLATE, Spark plug cable				2					2							
4	72351	SCREW, No. 10-32 self-locking				8					8							
5	LW-14060	CLIP, Two wire for 1/4 screw				2					2							
6	STD-8	WASHER, 1/4 plain				2					2							
7	STD-160	WASHER, 1/4 lock, internal teeth				2					2							
8	AN500-416-18	SCREW, 1/4-20 x 1-1/8 long, fill. hd.				1					1							
9	STD-1215	SCREW, 1/4-20 x 1-1/4 long				1					1							
10	STD-1411	NUT, 1/4-20 plain				2					2							
11	71910	CLAMP, 1-3/4 ID				4					4							
12	STD-553	SCREW, No. 6-32 x 1/2 long, rd. hd.				4					4							
13	AN365-632A	NUT, No. 6-32 self-locking				4					4							
14	76734	ZIP STRAP				2					2							
*	M-1985-48	LEAD ASSY., Replacement top and bottom leads (LW-M-2403 and LW-M-2404 harnesses)																

* Replacement lead assemblies have spark plug terminal ends assembled and are supplied with necessary parts to complete magneto end assembly after being cut to proper length.



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Figure 24 - Ignition Harness and Lead Assembly (Slick)

IGNITION SYSTEM SPARK PLUGS

FIG. REF. 25	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																								
				O-360								LO-360				TO-360												
				B2A	C1A	C1C	C1E	C1F	C2A	C2C	C2E	D2A	F1A	A6	A1G	A6D	C1A	A6D										
1	1182-B3	SPARK PLUG, (Champion REM-40E), high compression, shielded																										
	1182-B6	SPARK PLUG, (Champion EM-41E), low compression, shielded																										
	1182-D4	SPARK PLUG, (Champion RHM-38E), all weather																										
	1182-U5	SPARK PLUG, (Champion RHB-32E), long reach																										8

NOTE

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

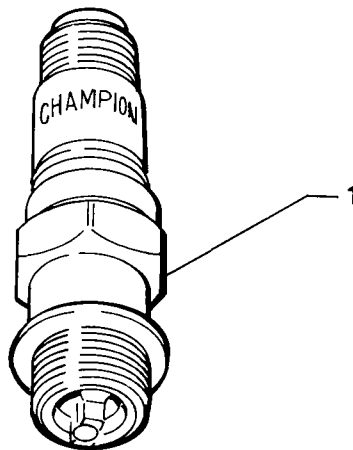


Figure 25.

ELECTRICAL COMPONENTS

VOLTAGE REGULATORS, RELAYS, ALTERNATOR AND GENERATOR DRIVE BELTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360						LO-360				TO-360					
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6				A 1 G 6 D		
1	72205	REGULATOR, Voltage (12V - 20 Amp.)				1				1	1								
	62833	REGULATOR, Voltage (12V - 35 Amp.)				1													
	71745	REGULATOR, Voltage (12V - 50 Amp.)			1	1													
	74291	REGULATOR, 12V., full transistor									1								
	LW-10185	REGULATOR, 12V., full transistor				1			1	1			1	1					
	LW-10179	REGULATOR, 24V., full transistor											1						1
	LW-15895	REGULATOR, 12V., transistorized						1					1						
2	74661	RELAY, Overvoltage, 12V.										1							
	78059	RELAY, Overvoltage, 12V.				1								1					
	78060	RELAY, Overvoltage, 24V.											1						1
3	60886	BELT, Generator drive			1	1	1			1	1								
4	76026	BELT, Alternator drive (3/8 wide)				1		1	1	1	1	1	1						1

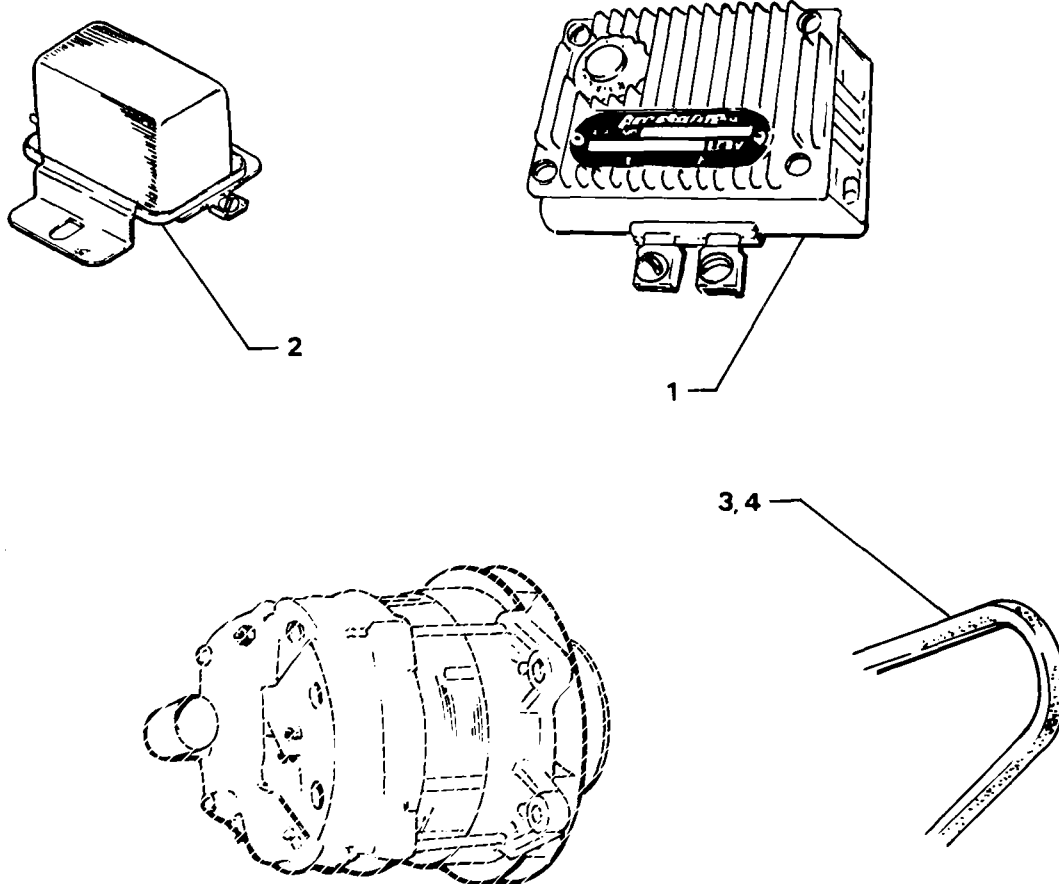
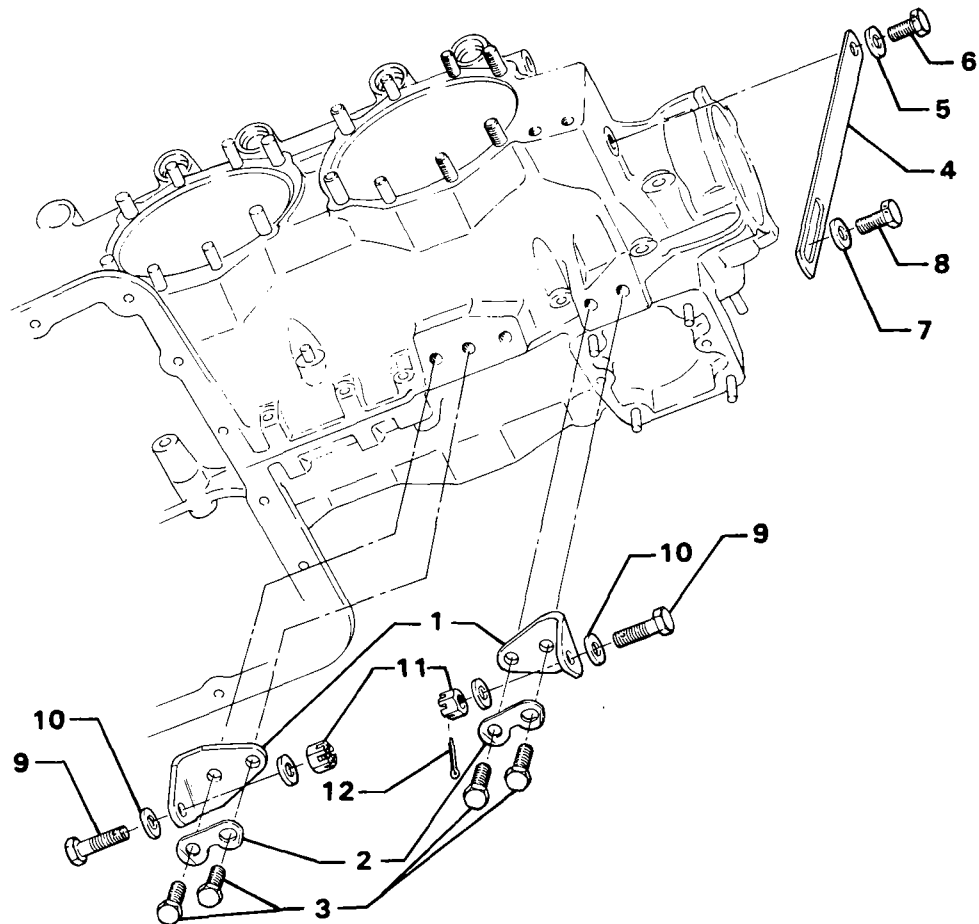


Figure 26.

ELECTRICAL COMPONENTS

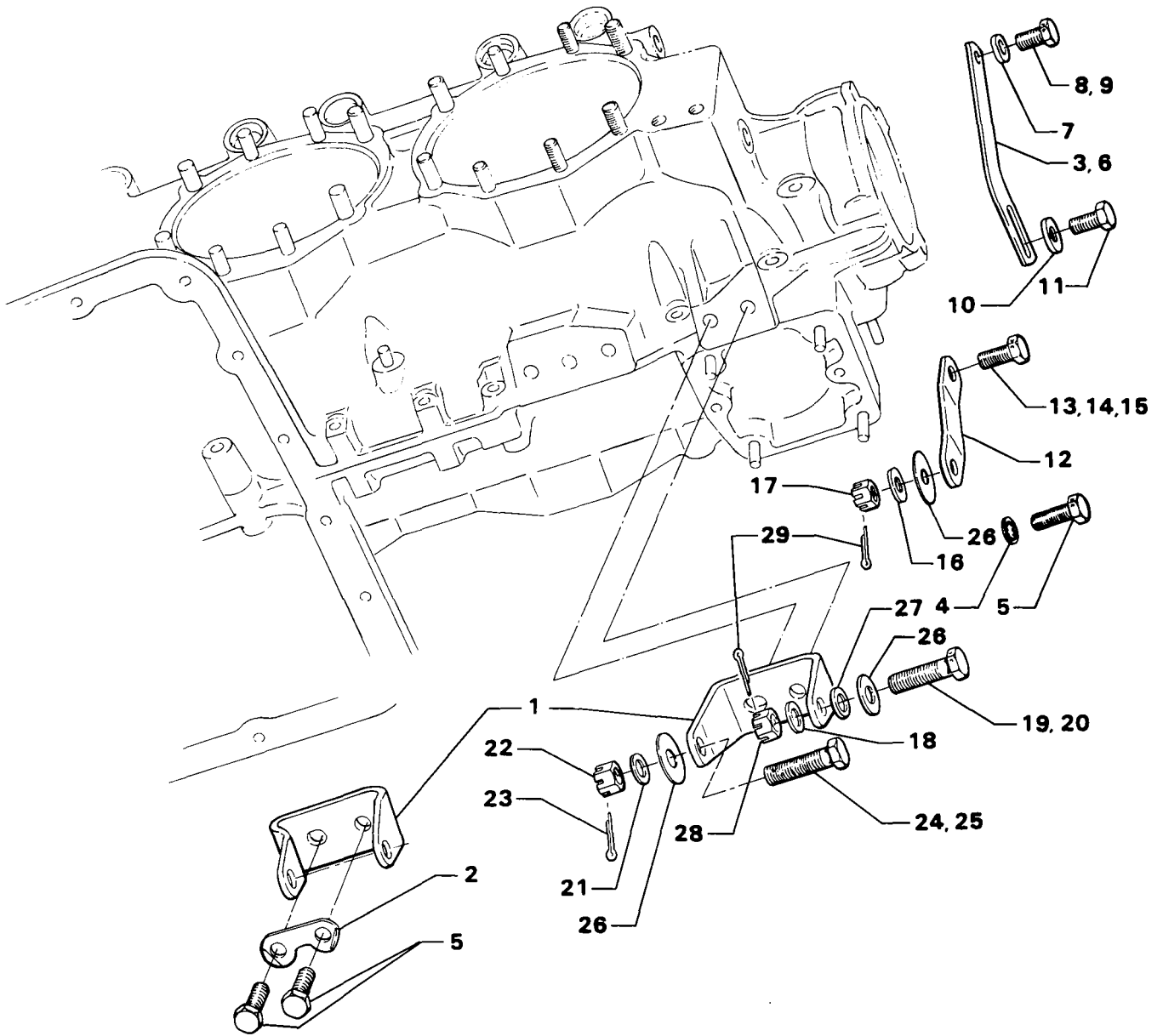
GENERATOR MOUNTING AND ATTACHING PARTS

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																		
				O-360						LO-360			TO-360									
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	D 2 A	F 1 A 6	A 1 G 6 D	C 1 A 6 D								
1	70419	BRACKET, Generator			2	2	2			2	2											
2	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing			2	2	2			2	2											
3	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd			4	4	4			4	4											
4	76028	LINK, Generator adjusting			1	1	1			1	1											
5	STD-35	WASHER, 5/16 plain			1	1	1			1	1											
6	LW-31H.75	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.			1	1	1			1	1											
7	STD-1727	WASHER, Plain, 3/4 OD x 1 1/32 ID x 1/8 thick			1	1	1			1	1											
8	LW-31H.75	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.			1	1	1			1	1											
9	STD-1851	BOLT, 5/16-18 x 1-5/32 long, dr. end			2	2	2			2	2											
10	STD-35	WASHER, 5/16 plain			un	un	un			un	un											
11	STD-1420	NUT, 5/16-18 slotted			2	2	2			2	2											
12	STD-68	PIN, 1/16 dia. x 1/2 long, cotter			2	2	2			2	2											



2111

Figure 27.

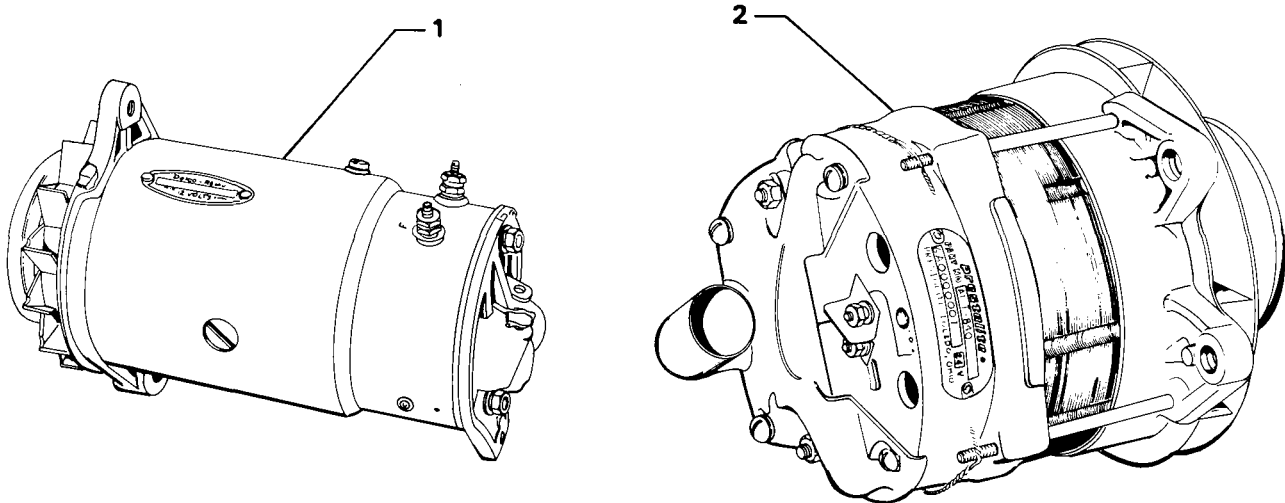


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Figure 28 - Alternator Mounting and Attaching Parts

ELECTRICAL COMPONENTS GENERATOR AND ALTERNATOR ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360						LO-360			TO-360				
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	D 2 E	F 1 A 6	A 1 G 6 D	C 1 A 6 D			
1	68767	GENERATOR, 12V.-35 Amp. (1101900)			1												
	71744	GENERATOR, 12V.-50 Amp. (1101915)		1	1			1									
2	LW-10979	ALTERNATOR ASSY., 24V.-100 Amp., 3.25:1 ratio				1	1			1	1						
	76421	PULLEY, Alternator, dual belt, 3.25:1 ratio			1	1				1	1						
	74880	ALTERNATOR ASSY., 12V.-70 Amp., 3.25:1 ratio								1							
	74863	PULLEY, Alternator, 3.25:1 ratio								1							
	74878	FAN AND BAFFLE ASSY., Alternator								1							
	LW-14316	ALTERNATOR, 12V.-70 Amp., externally grounded (ALX-8421)									1						1
	LW-14319	ALTERNATOR, 24V.-50 Amp., externally grounded (ALT-8421)								1							
	LW-14324	ALTERNATOR, 24V.-70 Amp., externally grounded (ALU-8421)															1
	LW-14308	ALTERNATOR, 12V.-60 Amp., externally grounded (ALY-8420)			1			1	1	1							
	LW-12832	ALTERNATOR ASSY., 12V.-60 Amp., internally grounded, 3.25:1 ratio					1			1							
	LW-12739	STRAP, Alternator ground					1			1							



2049-2051

Figure 29.

OIL SUMP AND INDUCTION SYSTEM

OIL SUMP ASSEMBLY AND OIL SUCTION SCREEN

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																	
				O-360									LO-360						TO-360		
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A	A 6					A 1 G 6 D		
1	LW-13353	GASKET, Oil sump	1																		
2	78915	SUMP ASSY., Oil		1	1	1	1			1	1	1	1								
	77159	SUMP ASSY., Oil								1								1			
	LW-15796	SUMP ASSY., Oil																		1	
	LW-16154	SUMP ASSY., Oil																			
3	78914	CONNECTION, Intake pipe		4	4	4	4			4	4	4	4								
	69602	CONNECTION, Intake pipe								4								4		4	
4	61400	STUD, 1/4-20 x 3/16 long	4																		
5	31C-15	STUD, 5/16-18 x 1-7/8 long		4	4	4	4			4	4	4	4								
6	31C-14	STUD, 5/16-18 x 1-3/4 long								4								4		4	
7	STD-91	PLUG, 1/2-14 NPT, Allen hd.		1	1	1	1			1	1	1	1								
8	1102	PLUG, 1/8-27 NPT, Allen hd.								2								2		2	
9	STD-551	PLUG, 1/2-14 NPT, Sq. hd., drilled	2																		
10	STD-8	WASHER, 1/4 plain	28																		
11	STD-160	WASHER, 1/4 lock, internal teeth	20																		
12	STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.		14	14	14	14			8	14	14	14	14				8		8	
13	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex. hd.	2																		
14	STD-1411	NUT, 1/4-20 plain		12	12	12	12			18	12	12	12	12				18		18	
15	70484	SCREEN, Oil suction	1																		
16	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1																		
17	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.	1																		
18	61548	NAMEPLATE	1																		
19	STD-1901	DRIVE STUD, No. 4 x 3/16 long, rd. hd.	4																		

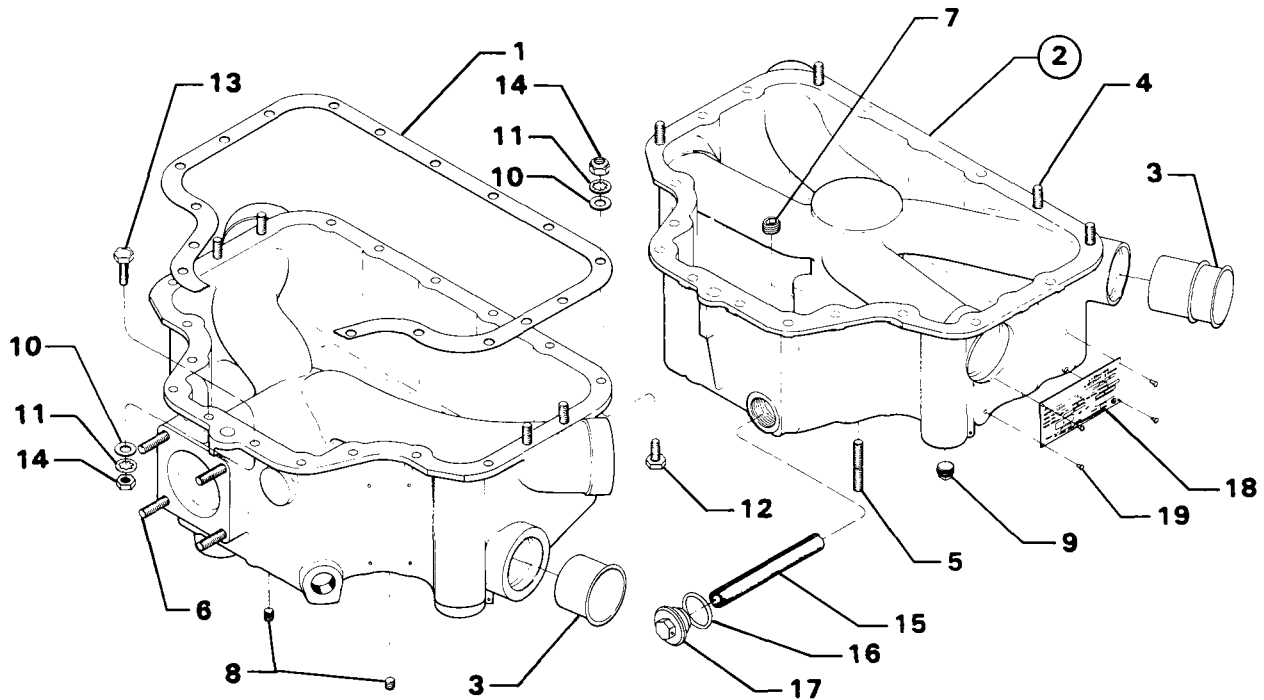


Figure 31.

OIL SUMP AND INDUCTION SYSTEM INTAKE PIPE ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY														
				O-360						LO-360			TO-360					
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	D 2 E	F 1 A	A 1 G 6 D		C 1 A 6 D			
1	70485	PIPE, Intake			4	4	4	4										
2	71712	PIPE, Intake, cyls. no. 1 and 2						2									2	
	LW-13944	PIPE, Intake, cyls. no. 1 and 2																2
	LW-16106	PIPE, Intake, cyls. no. 1 and 2										2						
3	71713	PIPE, intake, cyls. no. 3 and 4						2									2	
	LW-13945	PIPE, Intake, cyls. no. 3 and 4																2
	LW-16107	PIPE, Intake, cyls. no. 3 and 4										2						
4	69603	HOSE, 1-3/4 ID x 2-3/16 OD																
		x 1-3/4 long	4															
5	LW-15592-8-28	CLAMP, Hose	8															
6	71973	GASKET, 2 bolt flange, 1-7/8 ID	4															
7	73346	FLANGE, Intake pipe, upper			4	4	4	4	4	4	4	4	4				4	
	LW-14555	FLANGE, Intake pipe, upper											4					
8	STD-8	WASHER, 1/4 plain	8															
9	STD-160	WASHER, 1/4 lock, internal teeth	8															
10	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	8															
11	1102*	PLUG, 1/8-27 NPT, Allen hd.						2				2					2	
12	LW-13807	ADAPTER ASSY., Fuel drain valve																2

* Assemble in fuel drain bosses in sump.

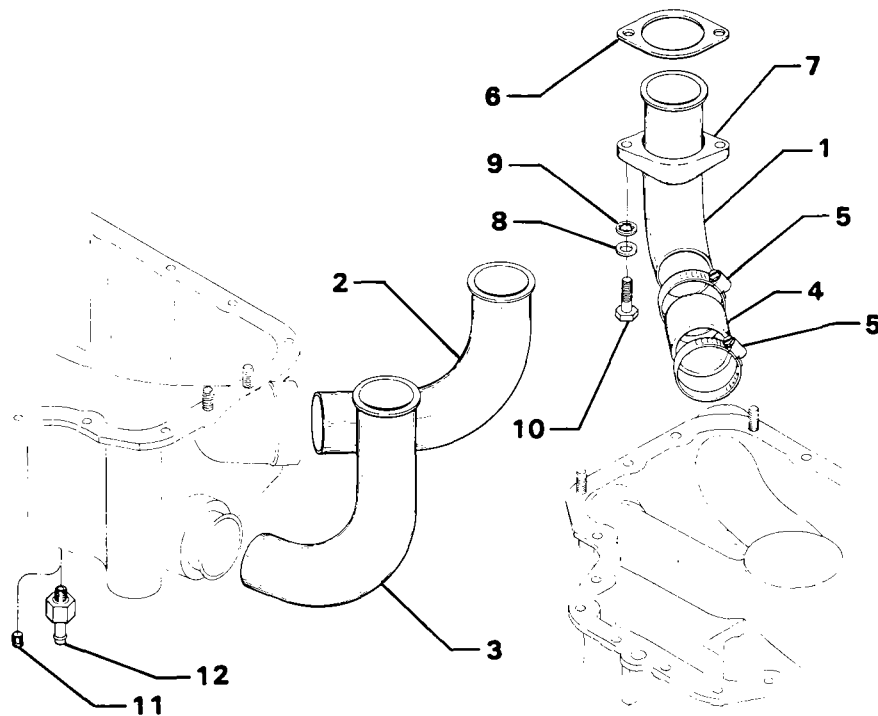
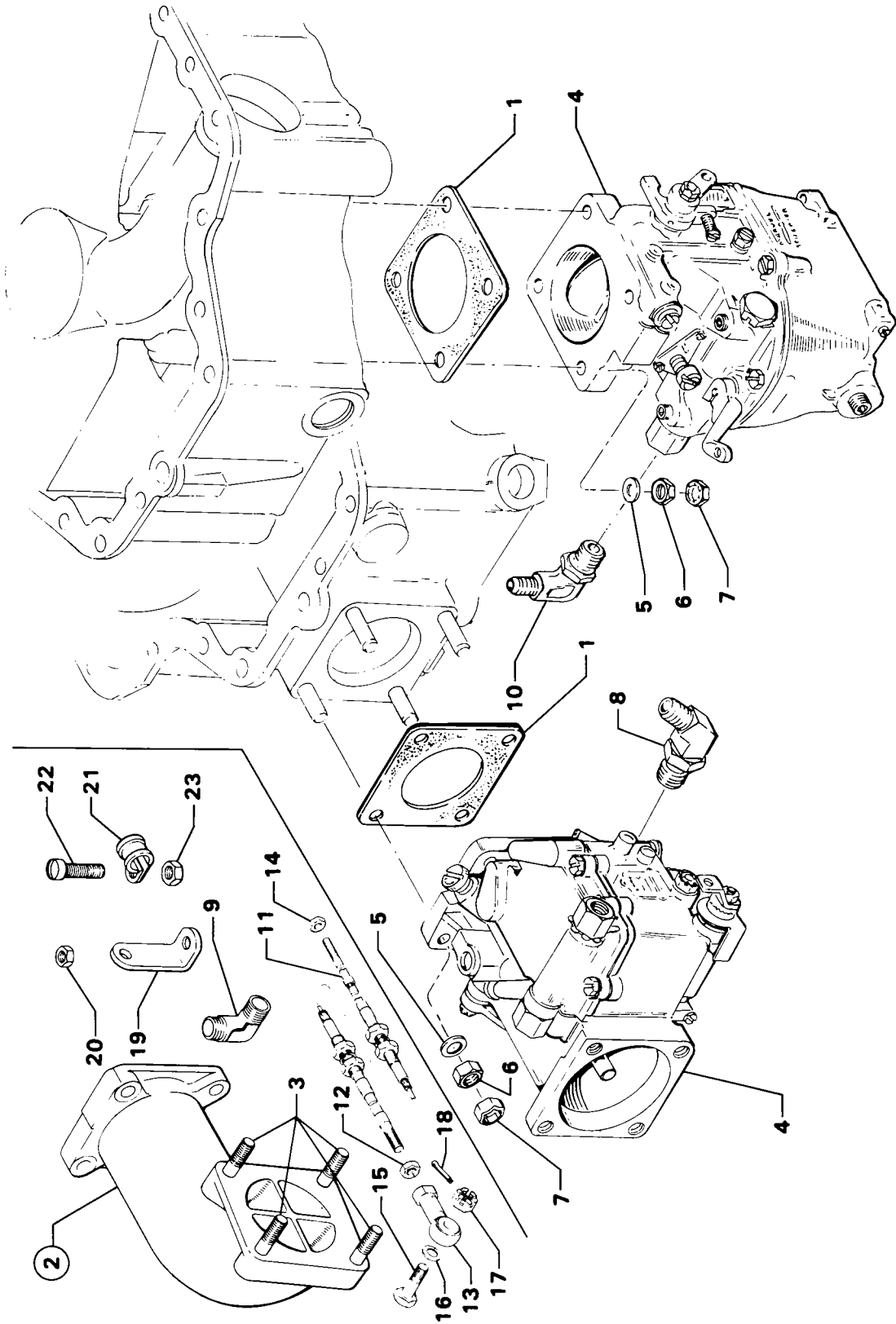


Figure 32.

OIL SUMP AND INDUCTION SYSTEM CARBURETOR ASSEMBLY

FIG. REF	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360							LO-360				TO-360				
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	D 2 E	F 1 A 6	A 1 G 6 D	A 1 G 6 D	C 1 A 6 D	C 1 A 6 D	C 1 A 6 D		
1	66224	GASKET, Carburetor			1	1	1	1		1	1	1	1						
	77154	GASKET, Carburetor							1				1						2
2	LW-14487	ADAPTER ASSY., Carburetor																	1
3	31C-14	STUD, 5/16-18 x 1-3/4 long,																	4
4	71098	CARBURETOR (10-3878)			1	1	1			1			1						
	71710	CARBURETOR (10-4164-1)					1	1		1	1	1							
	LW-15957	CARBURETOR, Marvel-Schebler, HA-6 (10-5219)											1						
	LW-15674	CARBURETOR, Marvel-Schebler, HA-6 (10-5211)																	1
	LW-15959	CARBURETOR, Marvel-Schebler, HA-6 (10-5230)															1		
	LW-16028	CARBURETOR, Marvel-Schebler, HA-6 (10-5246)																	1
	LW-16518	CARBURETOR, Marvel-Schebler, HA-6 (10-5253)											1						
	LW-16625	CARBURETOR, Marvel-Schebler, HA-6 (10-5255)								1									
	LW-16871	CARBURETOR, Marvel-Schebler, HA-6 (10-5280)																	1
5	STD-35	WASHER, 5/16 plain			4	4	4	4	4	4	4	4	4	4			4		8
6	STD-1410	NUT, 5/16-18 plain			4	4	4	4	4	4	4	4	4	4			4		8
7	STD-1763	LOCKNUT, 5/16 (palnut)			4	4	4	4	4	4	4	4	4	4			4		8
8	74070*	ELBOW, 3/8 tubing, adjustable, 45°											1				1		
9	MS20822-4-4**	ELBOW, 1/4 tube x 1/4 NPT, 90°																	1
10	72377*	ELBOW, 3/8 tubing, adjustable, 90°							1										
	72377+	ELBOW, 3/8 tubing, adjustable, 90°																1	
11	LW-14714	CONNECTOR, Push pull cable																	1
12	AN345C10++	NUT, No. 10-32, Stainless steel																	1
13	LW-13429*+	ROD END, Female, no. 10-32																	1
14	STD-63*+	NUT, No. 10-32 plain																	1
15	AN3-7*+	BOLT, No. 10-32 x 29/32 long, hex. hd.																	1
16	STD-122*+	WASHER, No. 10 plain																	3
17	STD-303*+	NUT, No. 10-32 slotted																	1
18	STD-68*+	PIN, 1/16 x 1/2 long, cotter																	1
19	LW-14724	BRACKET, Angle, 90°																	1
20	AN365-1024	NUT, No. 10-24 self-locking																	1
21	LW-16266-25-25	CLIP, 1/4 ID for 1/4 dia. screw																	1
22	AN500A416-10	SCREW, 1/4-20 x 1-1/8 long, fill. hd.																	1
23	STD-1685	NUT, 1/4-20 self-locking																	1

- * Assemble in fuel pump inlet.
- ** Assemble in carburetor inlet.
- + Assemble in fuel pump outlet - 10° - 15° above horizontal.
- ++ Assemble in waste gate end.
- *+ Assemble at carburetor end.

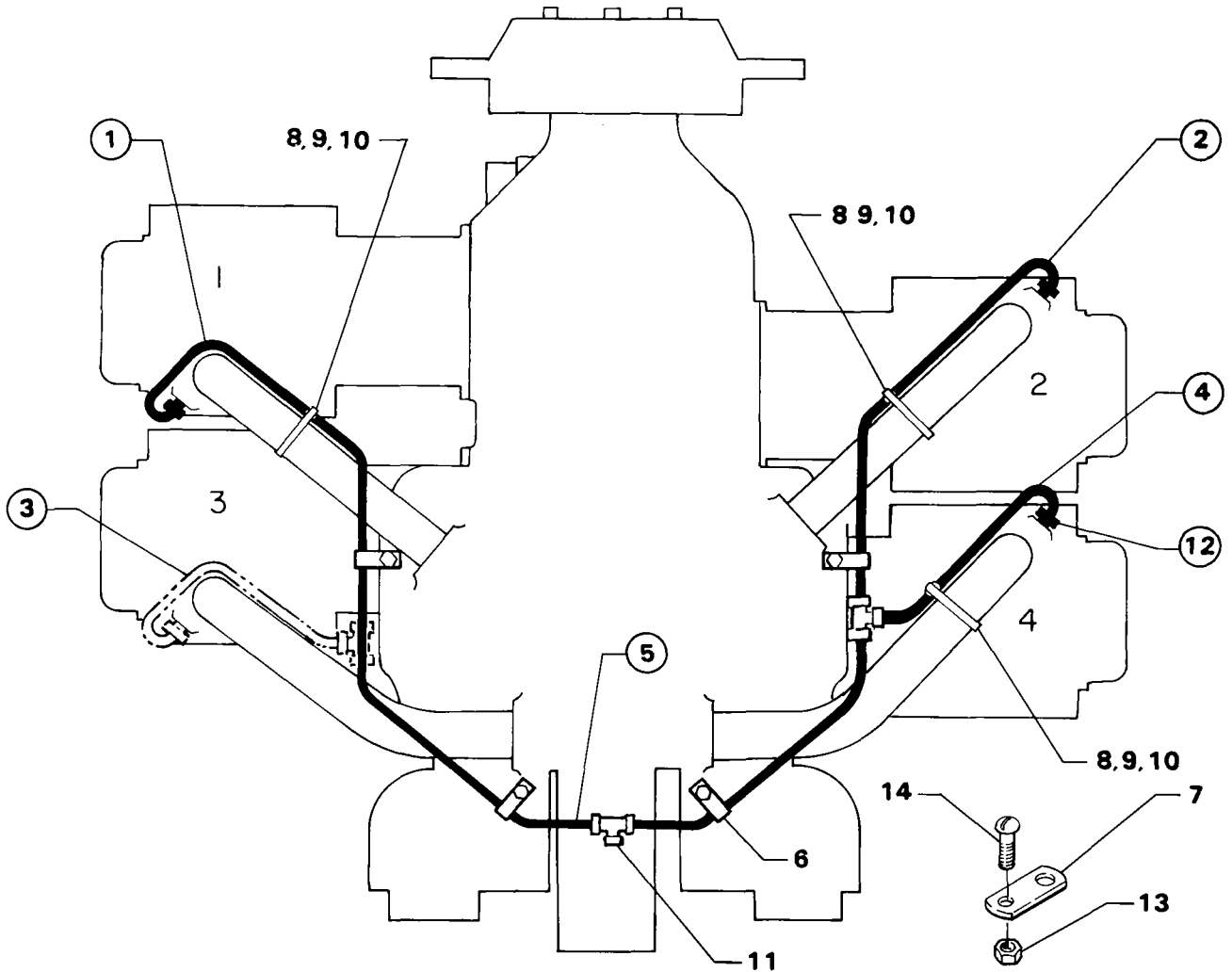


2432

Figure 33 - Carburetor Assembly

OIL SUMP AND INDUCTION SYSTEM PRIMING SYSTEM

FIG. REF. 34	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY															
				O-360						LO-360						TO-360			
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6				A 1 G 6 D		
1	LW-12098-1-284	TUBE ASSY., Primer, cyl. no. 1				1										1			
	LW-12098-1-170	TUBE ASSY., Primer, cyl. no. 1																	1
2	LW-12098-1-170	TUBE ASSY., Primer, cyl. no. 2				1										1			
	LW-12098-2-240	TUBE ASSY., Primer, cyl. no. 2																	1
3	LW-12098-1-134	TUBE ASSY., Primer, cyl. no. 3																	1
4	LW-12098-1-116	TUBE ASSY., Primer, cyl. no. 4				1										1			
5	LW-12098-0-100	TUBE ASSY., Primer, inter.				1													
	LW-12098-3-160	TUBE ASSY., Primer, inter.																	1
	LW-12098-0-134	TUBE ASSY., Primer, inter.														1			
6	LW-16266-25-13	CLIP, 3/16 ID for 1/4 dia.																	
		screw, cushion type				4										4			4
7	LW-14432	BRACKET, Support clamp														1			
8	71910	CLAMP, 1-3/4 ID with 1/4 dia, offset				3										3			3
9	STD-553	SCREW, No. 6-32 x 1/2 long, rd. hd.				3										3			3
10	AN365-632A	NUT, No. 6-32 self-locking				3										3			3
11	STD-853	TEE, Union, 1/4 tube				2										2			2
12	74225	NIPPLE ASSY., Primer				3										3			3
13	STD-670	NUT, No. 10-32														1			
14	STD-692	SCREW, No. 10-32														1			

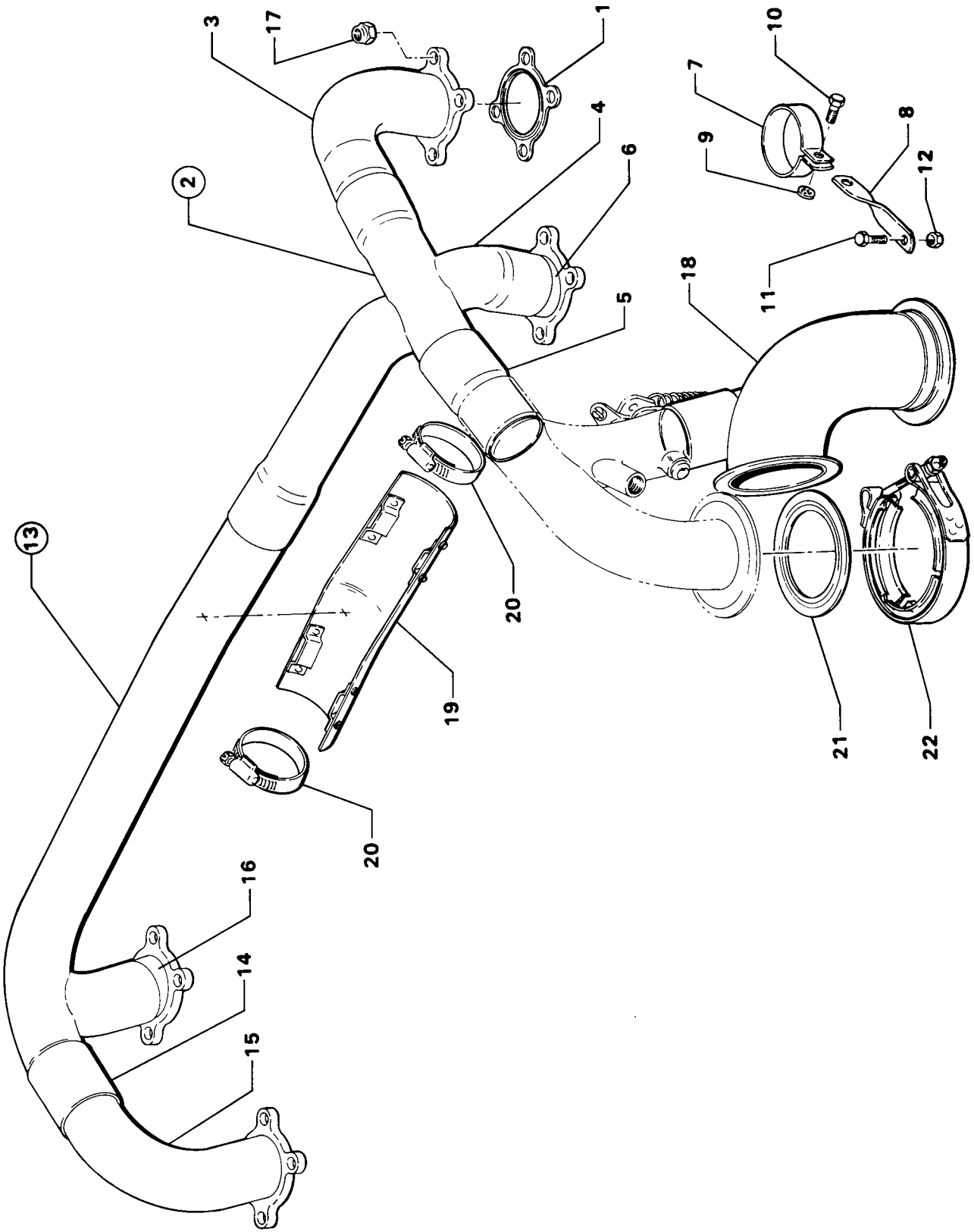


2280

Figure 34 - Priming System

TURBOCHARGER AND EXHAUST SYSTEM EXHAUST MANIFOLDING

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY													
				O-360						LO-360				TO-360			
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6			A 1 G 6 D	
1	LW-13938	GASKET, Exhaust flange															8
2	LW-15691	MANIFOLD ASSY., Exhaust, right															1
3	LW-14001	PIPE, Exhaust, cyl. no. 1															1
4	LW-15689	PIPE, Exhaust, cyl. no. 3															1
5	LW-15690	PIPE, Exhaust, inter.															1
6	LW-11400	ADAPTER, Exhaust pipe															1
7	LW-15693	CLAMP, Exhaust pipe															1
8	LW-15694	STRAP, Exhaust pipe															1
9	STD-160	WASHER, 1/4 internal lock															1
10	LW-25-50	BOLT, 1/4-20 x 1/2 long, hex. hd.															1
11	STD-1968	BOLT, 1/4-20 x 5/8 long, hex. hd.															1
12	STD-2044	NUT, 1/4-20 UNF self-locking															1
13	LW-13998	MANIFOLD ASSY., Exhaust, left															1
14	LW-14002	PIPE, Exhaust, cyl. no. 2															1
15	LW-14004	PIPE, Exhaust, cyl. no. 4															1
16	LW-11400	ADAPTER, Exhaust pipe															1
17	STD-2044	NUT, 1/4-20 self-locking															16
18	LW-13986	PIPE, Exhaust, tail															1
19	LW-13997	HEAT SHIELD															1
20	LW-16474	CLAMP, Hose															2
21	LW-14485	GASKET, Turbocharger inlet															2
22	LW-13464	CLAMP, 3-11/16 dia.															1

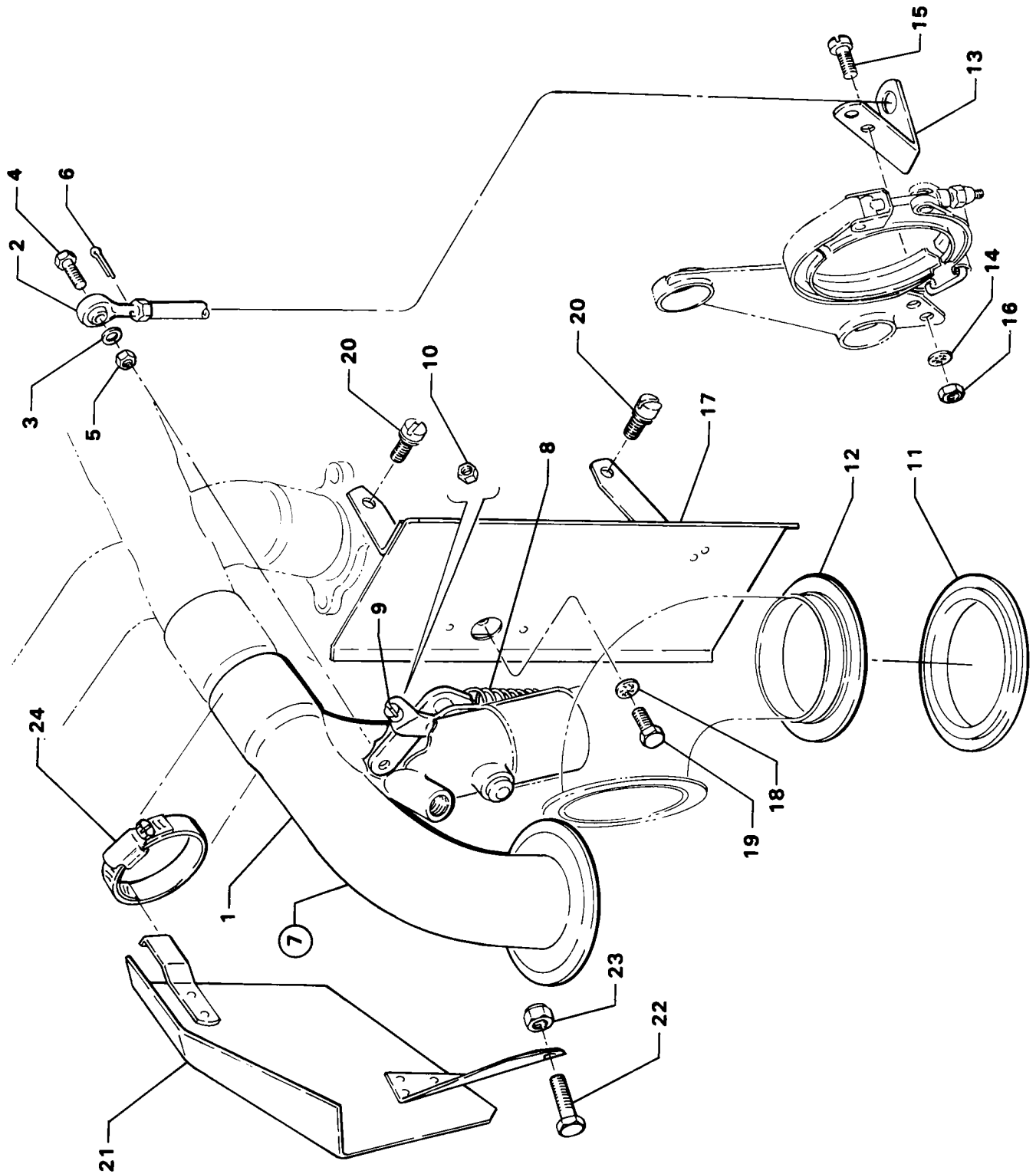


2310

Figure 35 - Exhaust Manifolding

TURBOCHARGER AND EXHAUST SYSTEM TRANSITION, WASTEGATE AND ROD END ASSEMBLY

FIG. REF.	PART NUMBER	DESCRIPTION	ON ALL	QUANTITY PER ASSEMBLY																	
				O-360						LO-360						TO-360					
				B 2 A	C 1 A	C 1 C	C 1 E	C 1 F	C 2 A	C 2 C	C 2 E	D 2 A	F 1 A 6					A 1 G 6 D			C 1 A 6 D
1	LW-15766	TRANSITION, WASTEGATE AND ROD END ASSY.																		1	
2	LW-15765	ROD END, No. 10-32 (Stainless steel)																		1	
3	AN960C10L	WASHER, No. 10 (Stainless steel)																		3	
4	AN3C7	BOLT, No. 10-32 (Stainless steel)																		1	
5	AN320C3	NUT, No. 10-32 (Stainless steel)																		1	
6	STD-68	PIN, 1/16 x 1/2 long, cotter																		1	
7	LW-14944	TRANSITION AND WASTEGATE ASSY.																		1	
8	LW-13671	SPRING, Wastegate																		1	
9	STD-860	SCREW, No. 10-32 x 3/4 long, fill. hd.																		1	
10	STD-63	NUT, No. 10-32 plain																		1	
11	LW-14063	GASKET, V-band coupling, 2-3/4 OD tube																		1	
12	LW-13985	FLANGE, V-band coupling, 2-3/4 OD tube																		1	
13	LW-13991	SUPPORT, Linkage control																		1	
14	STD-160	WASHER, 1/4 internal lock																		2	
15	AN501-416-10	SCREW, 1/4-28 x 5/8 long, hex. hd.																		2	
16	STD-9	NUT, 1/4-28 plain																		2	
17	LW-13971	HEAT SHIELD (cyl. head)																		1	
18	STD-160	WASHER, 1/4 internal lock																		1	
19	STD-1919	SCREW, 1/4-20 x 9/16 long, hex. hd.																		1	
20	STD-1826	SCREW, 1/4-20 x 5/8 long, fill. hd., self-locking																		2	
21	LW-14017	BAFFLE, Turbocharger																		1	
22	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.																		1	
23	STD-2043	NUT, 5/16-18 self-locking																		1	
24	LW-15592-8-28	CLAMP, Hose																		1	



2311

Figure 36 - Transition, Wastegate and Rod End Assembly

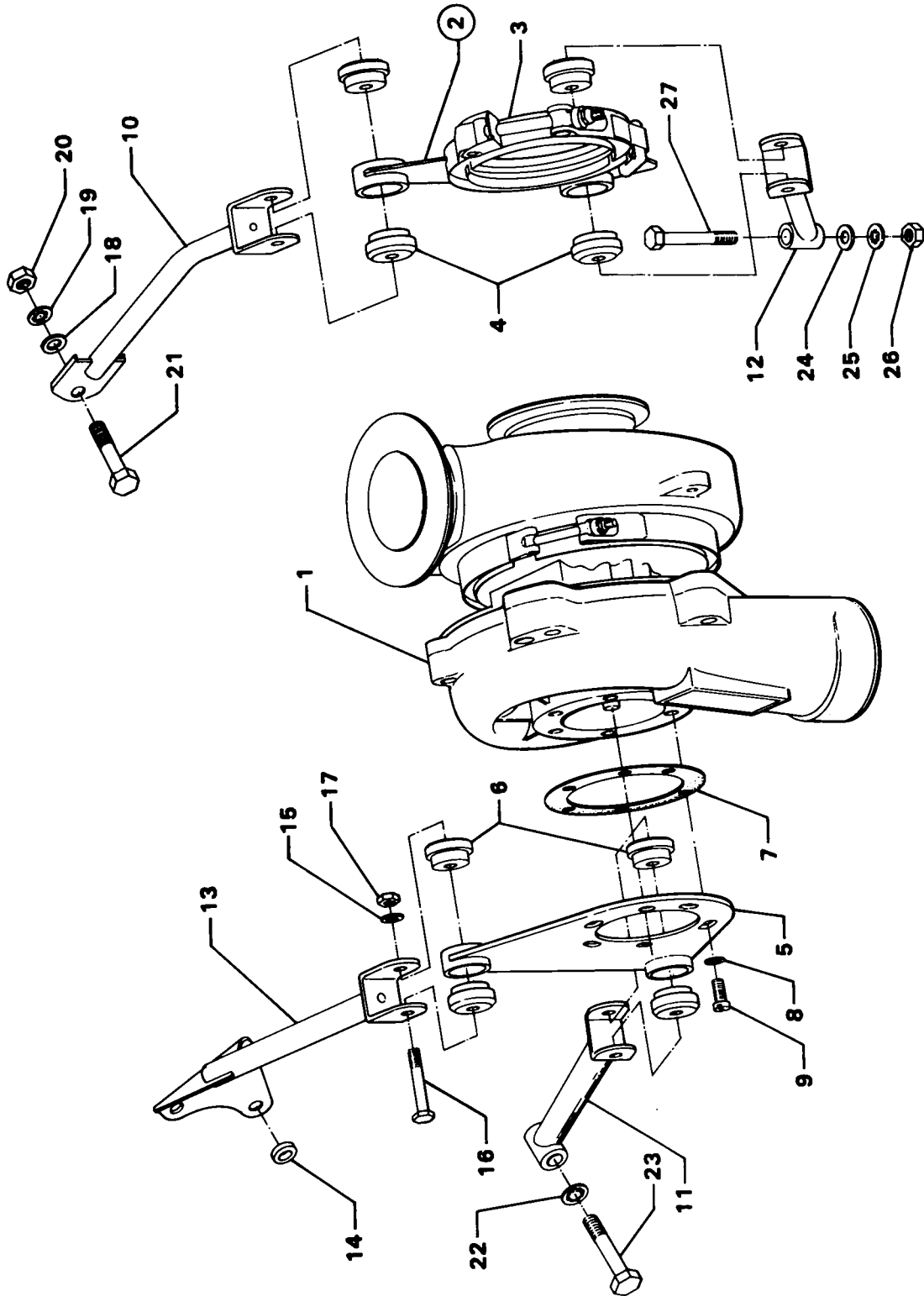
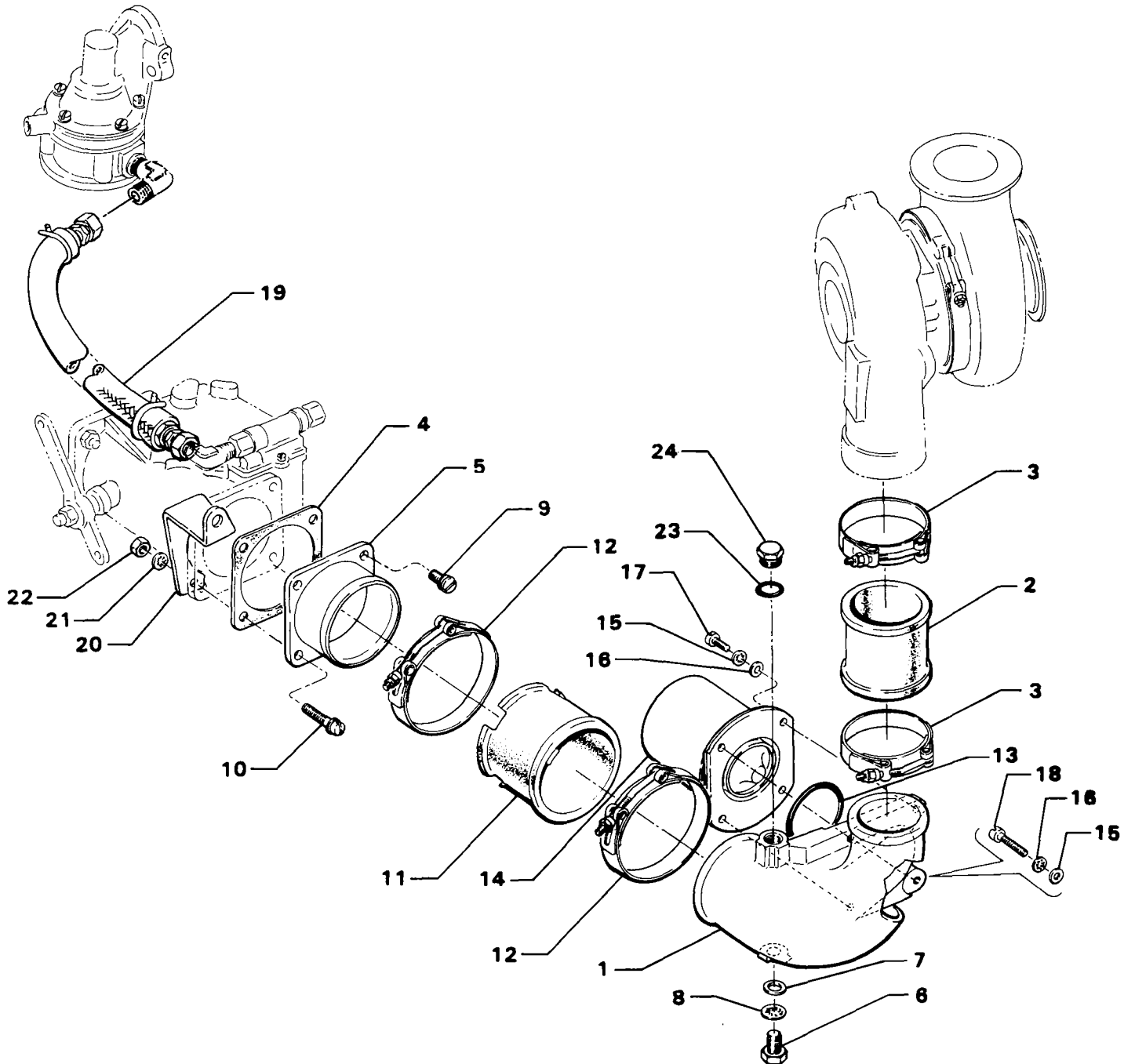
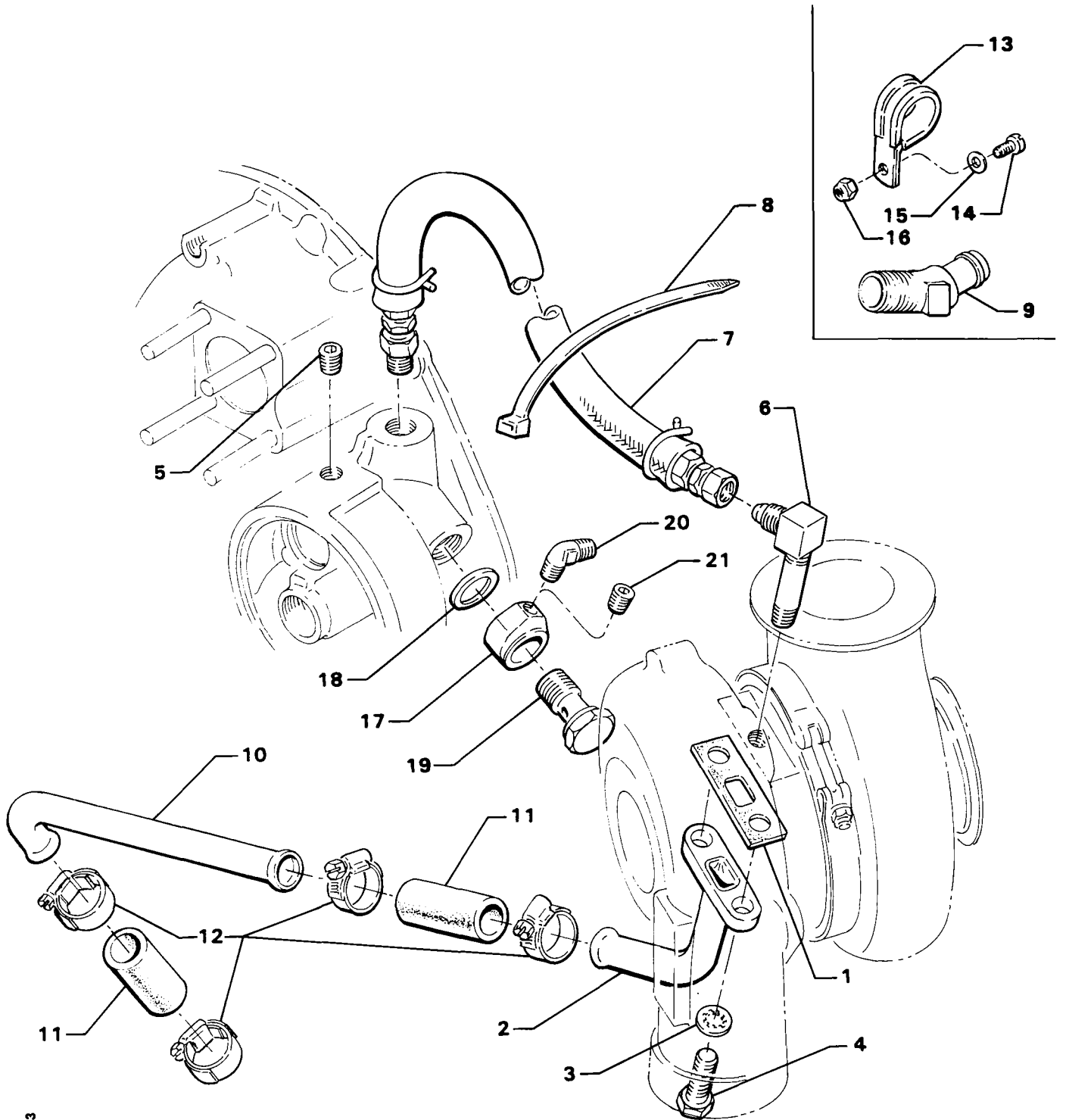


Figure 37 - Turbocharger Assembly and Related Parts



2312

Figure 38 - Turbocharger Inlet Hosed and Related Parts



2313

Figure 39 - Oil Drain Tubes, Hoses and Related Parts

SECTION 8 SERVICE KIT SECTION SEAL AND GASKET SET O-360-C SERIES

Part No.	Part Name	Qty.
75439-1	SEAL AND GASKET SET	1
AN901-8A	GASKET	1
STD-111	GASKET, Annular	1
STD-208	SEAL, Oil	1
STD-213	SEAL, Oil (fuel pump drive)	1
STD-294	GASKET, Annular	2
STD-1045	GASKET, Annular	1
1691-C	GASKET, Fuel pump pad	1
8313	GASKET, Vacuum pump	1
60096	GASKET, Fuel pump	1
61156	LOCKPLATE, Crankshaft gear	1
LW-14260	SEAL, Tachometer	1
61173	GASKET, Oil press. hsg.	1
61183	GASKET, Accessory adapter	1
61523	BOX, Set-up	1
62224	GASKET, Magneto adapter	3
62922	SEAL, Shroud tube	8
65321	GASKET, Exhaust flange	4
66224	GASKET, Carburetor	2
68315	GASKET, Accessory drive adapter	1
LW-13353	GASKET, Oil sump	1
69164	GASKET, Fuel pump adapter	1
69345	SPACER	4
69551	GASKET, Accessory pad cover	1
70310	SEAL, Shroud tube	8
71481	RING, Oil seal	4
71973	GASKET, Intake flange	4
72053	GASKET, Governor drive pad	2
72059	GASKET	1
72075	SEAL, Oil	6
72078	LOCKPLATE, Cam gear	2
72091	RING, Oil seal	2
73383	LOCKPLATE	2
73817	LOCKPLATE, Crankshaft idler gear shaft	2
73818	GASKET, Accessory housing	1
74065	RING, Oil level gage seal	1
74068	RING, Oil level gage seal	1
75906	GASKET, Rocker box cover	4
76510	GASKET	1
76940	SEAL, Crankshaft oil	1
LW-13792	SEAL, Crankshaft oil	1
LW-12272	LOCKPLATE, Shroud tube	4
LW-12681	GASKET, Magneto	2
LW-12795	GASKET	1
LW-14995	SPRING	4
LW-10332	LOCKPLATE	1
70455	GASKET	1
STD-1763	PALNUT	4

SECTION 8 SERVICE KIT SECTION SEAL AND GASKET SET LO-360-A1G6D

Part No.	Part Name	Qty.
LW-12945	SEAL AND GASKET SET	1
MS16625-1081	RING, Internal retaining	1
MS16625-1100	RING, Internal retaining	1
MS29512-10	SEAL	3
STD-111	GASKET	1
STD-208	SEAL, Oil	1
STD-294	GASKET	2
STD-1045	GASKET	1
8313	GASKET	1
60096	GASKET	1
LW-14260	SEAL, Tachometer drive	1
61523	BOX, Set-up	1
62922	SEAL, Shroud tube	8
65321	GASKET, Exhaust flange	8
66224	GASKET, Carburetor	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
73818	GASKET, Accessory housing	1
74068	RING, Oil level gage	1
75906	GASKET, Rocker box cover	4
LW-12681	GASKET, Dual magneto	1
LW-10332	LOCKPLATE, Crankshaft	1
LW-13792	SEAL, Crankshaft	1
72059	GASKET, Oil level gage	1
70310	SEAL, Shroud tube	8
LW-12272	LOCKPLATE	4
LW-14995	SPRING	4
77154	GASKET, Carburetor	1
74065	RING, Oil level gage	1

SECTION 8 SERVICE KIT SECTION SEAL AND GASKET SET TO-360-C1A6D

Part No.	Part Name	Qty.
LW-14976	SEAL AND GASKET SET	1
AN901-8A	GASKET	1
STD-111	GASKET	1
STD-208	SEAL, Oil	1
STD-294	GASKET	2
STD-1045	GASKET	1
MS29512-4	SEAL, Oil	1
MS29512-10	SEAL, Oil	3
MS29513-138	SEAL, "O" ring	1
LW-10332	LOCKPLATE, Crankshaft	1
LW-11665	THRUST BUTTON	16
LW-12681	GASKET, Magneto	2
LW-13353	GASKET, Oil sump	1
LW-13473	GASKET, Carburetor inlet adapter	1
LW-13476	GASKET, Turbo comp. inlet	2
LW-13938	GASKET, Exhaust flange	8
LW-14063	GASKET, V-band coupling	1
LW-14260	SEAL, Tach. drive	1
LW-14485	GASKET, Turbo inlet	2
8313	GASKET, Vacuum pump	2
66732	GASKET, Rocker shaft cover	8
70310	SEAL, Shroud tube	16
70455	GASKET	1
71481	SEAL, Shroud tube	4
71973	GASKET, Intake flange	4
72053	GASKET, Governor	1
72059	GASKET	1
72075	RING, Oil seal	6
72091	RING, Oil seal	2
73383	LOCKPLATE	2
73818	GASKET, Accessory housing	1
74065	RING, Oil level gage	1
76036	GASKET, Rocker box cover	4
77154	GASKET, Carburetor	2
61523	BOX, Set-up	1
LW-15628	SEAL, Crankshaft oil	1
LW-14528	GASKET, Turbo oil drain	1

SECTION 8

SERVICE KIT SECTION

CYLINDER, PISTON AND RING ASSY.

O-360-C SERIES; LO-360-A1G6D

Part No.	Part Name	Qty.
76296	CYLINDER, PISTON AND RING ASSY.	1
STD-1411	NUT, Plain, 1/4-20	1
STD-1925	SCREW	6
60009	KEY, Valve, intake	2
62922	SEAL, Shroud tube	2
LW-13790	SHAFT, Valve rocker	1
60828	PLUG, Piston pin	2
75906	GASKET, Rocker box cover	1
61247	COVER, Rocker box	1
MS13998-3	CAP, Valve stem, exhaust (rotator type)	1
LW-11800	SPRING, Valve, outer	2
65441	SEAT, Valve spring, lower (intake)	1
LW-11795	SPRING, Valve, inner	2
LW-10077	SEAT, Valve spring, upper, intake	1
LW-14995	SPRING, Shroud tube	1
LW-12272	LOCKPLATE, Shroud tube	1
69444	ROCKER ASSY., Valve intake	1
LW-10076	SEAT, Valve spring, upper, exhaust (rotator type)	1
LW-14077	PIN, Piston	1
70310	SEAL, Shroud tube	2
71195	BOX, Set-up	1
71481	SEAL, Cylinder base	1
74541	VALVE, Exhaust (rotator type) sodium cooled chrome stem	1
MS13997-3	KEY, Valve, exhaust (rotator type)	2
73857 or		
LW-12328	RING, Piston, oil reg. (ch.) (expander type)	1
73938	VALVE, Intake	1
74241	RING, Piston compression (ch.)	2
LW-12427	CYLINDER AND HEAD ASSY., Nitrided, straight valve head	1
75089	PISTON	1
74636	ROCKER ASSY., Exhaust	1
LW-13323	SEAT, Valve spring lower, exhaust	1
LW-12892	THRUST BUTTON	2
STD-1215	BOLT	2
72198	PLUG	2
SSP672	TAG	1
LW-11775	PLUG, Piston pin (alum.)	2
SSP2472	TAG	1

SECTION 8 SERVICE KIT SECTION CYLINDER, PISTON AND RING ASSY. TO-360-C1A6D

Part No.	Part Name	Qty.
LW-14977	CYLINDER, PISTON AND RING ASSY.	1
STD-160	WASHER	2
STD-1215	BOLT	2
STD-2059	SCREW	8
MS13997-3	KEY, Valve, exhaust	2
MS13998-3	CAP, Valve, exhaust	1
LW-10076	SEAT, Valve spring upper	1
LW-15732	VALVE, Exhaust	1
LW-11665	THRUST BUTTON	4
LW-11775	PLUG, Piston pin	2
LW-11796	SPRING, Valve outer	2
LW-11797	SPRING, Valve inner	2
LW-13262	VALVE, Intake	1
LW-13964	CYLINDER ASSY., Nitrided	1
LW-14077	PIN, Piston	1
LW-14433	COVER ASSY., Rocker box	1
LW-14893	SEAT, Valve spring lower, intake	1
LW-14894	SEAT, Valve spring lower, exhaust	1
LW-10545-S	PISTON	1
62388	CAP, Valve stem, intake	1
66732	GASKET, Rocker shaft cover	2
69532	SEAT, Valve spring upper, intake	1
70310	SEAL, Shroud tube	4
71195	BOX, Set-up	1
71481	SEAL, Cylinder base	1
71549	WASHER, Valve washer thrust	2
72050	KEY, Valve, intake	2
72620	SHAFT, Valve rocker	2
72710	COVER, Rocker shaft	2
73857	RING, Piston, oil reg.	1
74241	RING, Piston, comp.	2
76036	GASKET, Rocker box cover	1
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AN565B1032H5	Set Screw	1-8	LW-11795	Spring	3-5
AN6-13	Bolt	5-3	LW-11796	Spring	3-5
AN6-14	Bolt	5-3	LW-11797	Spring	3-5
AN6-16	Bolt	5-3	LW-11800	Spring	3-5
AN6-32	Bolt	5-3	LW-12050	Camshaft	1-5
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