

IO-390-A Series Engine Illustrated Parts Catalog

June 2025

| PC-IO-390-A Rev 1



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652 Oliver Street
Williamsport, PA 17701

IO-390-A Series Engine Illustrated Parts Catalog

| Lycoming Part Number: PC-IO-390-A Rev 1

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Record of Revisions

NOTICE: Service Documents with a later release date than this parts catalog override parts information in this document.

Rev No.	Revision Changes	Issue Date
New	Initial Release	July 2016
Rev. 1	Introduction - Revised the “How to Order Parts and Publications” section - Deleted the Roller Tappets section - Added the Lockwire, Safety Cable section Oversize and Undersize Part Listing - Changed the P/N for Exhaust Valve Guide from 75838 to 75838-S Chapter 24-30 - Changed the chapter name from AC Generation to DC Generation - Moved the figure and parts list for the Alternator Assembly and Belt from Chapter 74-20 to Chapter 24-20 as new Figure 2 and renumbered remaining figures in the catalog accordingly Chapter 72-10 - Moved the figure and parts list for Compressor Attaching Parts from Chapter 24-20 to Chapter 72-10 Chapter 72-20 - Revised Figures 5A and 5B - Deleted Crankcase Assembly part number 11U28750-1S1 from the parts list for Figure 5A/5B - Added new Crankcase Assembly part numbers, 11U28752-1S and 11U28752-1S3, to the parts list for Figure 5A/5B - Changed the part number for item 13 in the parts list for Figure 9 from AN960-616L to NAS1149F0632P - Added new Figures 9A and 9B and new parts list for Figures 9A and 9B - Changed P/N LW-25-2.13 to P/N NASM90725-15 in the parts list for Figure 9 Chapter 72-30 - Changed the part number for the Connecting Rod Upper Bushing in the parts list for Figure 10 from LW-13923 to 01K28983 - Changed the part number for the oil regulating piston ring from 14H23148 to 14H29865 in the parts list for Figure 10 - Revised the part numbers for items 2, 3, 4, 5, and 6 in the parts list for Figure 11 - Revised the part numbers for items 3 and 4 in the parts list for Figure 12 - Deleted part number 15G23462-C from the parts list for Figure 12 - Revised the part numbers for all push rods in the parts list for Figure 12 - Revised Figure 14 to show more accurate depiction of the rocker box cover - Added part number LW-15592-5-04 to the parts list for Figure 14 - Added new footnote to the parts list for Figure 14	June 2025

Record of Revisions (Cont.)

Rev No.	Revision Changes	Issue Date
Rev. 1 (Cont.)	Chapter 72-60 - Added part number 21A21533-27 for item 2 in the part list for Figure 18 Chapter 73-10 - Revised the model designation for fuel injector P/N 61J26426 in the parts list for Figure 24A - Revised the model designation for fuel injector P/N 61J28175 in the parts list for Figure 24B - Deleted Figure 25 and created new Figures 25A and 25B - Deleted parts list for Figure 25 and created new parts lists for Figures 25A and 25B Chapter 74-20 - Added HET magnetos as an approved alternate to the parts list for Figure 26 - Added footnote referencing S.I. 1443 to the parts list for Figure 26 Service Kit Section - Revised the Description for P/N 06B26811 in the Seal and Gasket Set Table - Revised the P/N of the Cylinder and Head Assembly in the Cylinder, Piston and Ring Assembly parts list - Revised the P/N and description for the Rocker Box Cover Gaskets in the Cylinder, Piston and Ring Assembly parts list - Changed the part number for the oil regulating piston ring from 14H23148 to 14H29865 in the Cylinder, Piston and Ring Assembly parts list	June 2025

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Introduction

⚠ CAUTION: DO NOT USE THIS CATALOG AS AN ASSEMBLY OR INSTALLATION DOCUMENT. THIS CATALOG MUST ONLY BE USED TO IDENTIFY PARTS IN CONJUNCTION WITH THE APPLICABLE OVERHAUL MANUAL.

Purpose of this Catalog

This Illustrated Parts Catalog contains a complete list of spare parts for the Lycoming O-320-D2J Certified Series wide cylinder flange model engines.

How to Use this Catalog

This catalog is based on the Air Transport Association (ATA) Spec100 format.

This catalog is frequently updated by Service Bulletins (SB) and Service Instructions (SI). The updated information will be incorporated into subsequent full revisions of this catalog.

The ATA two element numbering system provides consistency throughout various manuals. The bottom of each page (beyond the frontal section) contains a two element number (##-##). In the two element numbering, the first two digits represent a chapter, and the next two digits subdivide the material into a more specific section.

The ATA 100 format designates chapters by the numeric code. In the example below, Chapter 74 is for Ignition with a subsection 20 for Distribution.

EXAMPLE: **74** — **20**
 Chapter Section
 Ignition Distribution

NOTE: See the IPC Table of Contents for the sub-systems listed in each section.

Numerical Index

The Numerical Index is a single list of part numbers, names and their locations within the IPC. It is useful for locating parts when you only know the number or name of the part.

Description column

Indentation of a part name represents a lower level of assembly. Attaching parts have the same indentation level and are listed below the parts grouping or assembly they attach to. This column is often referred to as the “Nomenclature” on other ATA Spec manuals.

Units per Assembly Column

Where more than one assembly exists, this column contains the quantity of a specific part required in the build sequence of only one next higher assembly. The letters “AR” represent “as required” for bulk items or non-illustrated select-from-range-parts. “RF” represents items listed for reference purposes only.

Lockwire, Safety Cable

To maintain as assembled torque integrity Lockwire used is to be a one continuous strand twisted to keep tension on various internal fasteners ensuring a minimum torque is retained. Lockwire installed correctly will pull in the direction of fastener assembled tension. Lycoming Engines does not recommend the use of safety cable for retention of internal engine parts or assemblies. Refer to the latest revision of **Service Instruction No. 1566**.

Vendor Accessories

Parts coverage of Vendor Accessories used on Lycoming engines are found in the applicable Vendor's Parts Catalog. A list of vendors' addresses is included in the latest revision of Lycoming Service Letter No. L114.

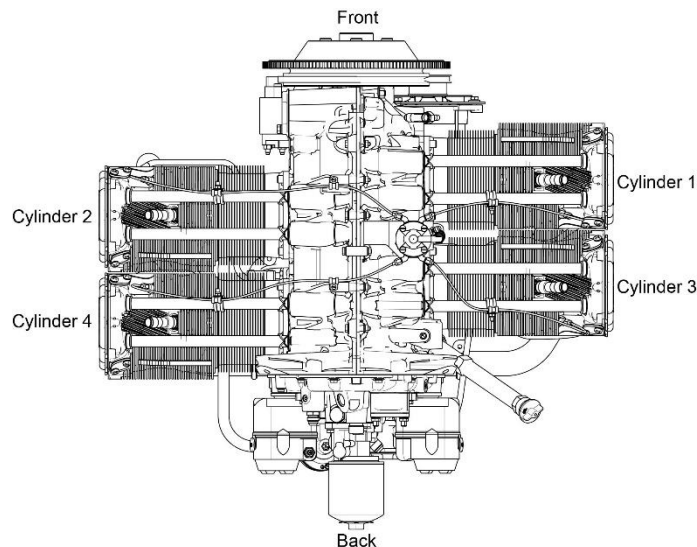
Any reference in this document to the supplier's/part manufacturer's product, by name, trademark, part number or other description is solely for the purpose of identification and does not indicate or infer that Lycoming accepts responsibility for quality control and/or airworthiness of parts, which do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

Environmental Compliance

Lycoming is concerned with preserving the environment. Lycoming strongly urges engine owners and repair/overhaul personnel to observe and comply with all federal, state, and local environmental regulations when solvents, paint, fuel, oil, chemicals, or other consumables are used in operating, maintaining, or overhauling an engine component. Please share our concern for and commitment to a clean earth, clean water, and especially clean air for succeeding generations of flyers.

Perspective of References

In this manual, all references to locations of various components will be designated as if viewing the engine from the rear (or anti-propeller) end. The front of the engine is the propeller end and the oil sump is on the bottom of the engine. Cylinders are numbered from front to rear with the odd-numbered cylinders on the right-hand side. The firing order for this four-cylinder engine is 1-3-2-4.



Top View of Engine

How to Order Parts and Publications

An Oversize and Undersize Parts List is included in the front section of this catalog to aid in ordering parts as necessary during overhaul.

To order parts:

1. Contact the applicable Customer Service Hot Lines:
U.S. and Canada toll free - +1-800-258-3279
International Customers - +1-570-323-6181
8:00 A.M. – 5:00 P.M. EST (-5GMT) Monday through Friday
2. Give the model and serial number of your engine.
3. Give the part number, nomenclature, and quantity.

To supply any comments, suggestions, or corrections to this parts catalog, go online to the Lycoming.com website on the internet.

NOTICE: The owner of the manual must give notification to the factory for a change of address.

NOTE:

Lycoming recommends that owners of this manual sign up for email notification on the Technical Publications page of our website <https://www.lycoming.com/contact/knowledge-base/publications>. By submitting your email address, you will receive notification whenever Lycoming publishes a new or revised technical publication, including any revisions to this parts catalog.

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Abbreviations and Acronyms

A	
AR	As Required
Assy.	Assembly
ATA	Air Transport Association
C	
Cyl.	Cylinder
F	
Fill.	Fillister
H	
Hd.	Head
Hex.	Hexagon
I	
I.D.	Inside Diameter
in.	Inch
IPC	Illustrated Parts Catalog
M	
mm	Millimeter
N	
No.	Number
NPT	National Pipe Taper (thread)
O	
O.D.	Outside Diameter
P	
P	Lycoming Proprietary Part
P/N	Part Number
Q	
Qty.	Quantity
R	
RF	Reference
S	
SB	Service Bulletin
SI	Service Instruction
SSP	Special Service Publication

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Oversize and Undersize Parts Listing

PART NO.	DESCRIPTION	OVERSIZE (IN.)					UNDERSIZE (IN.)	
		P05 .005	P10 .010	P20 .020	P30 .030	P50 .050	M03 .003	M06 .006
18B23885	BEARING, Front Crankshaft						X	X
18E23886	BEARING, Crankshaft						X	X
18M23887	BEARING, Connecting Rod						X	X
71903-A †	BUSHING, Counterweight	--	--	--	--	--	--	--
72155-S	BUSHING, Prop Flange	X						
75656-S	BUSHING, Prop Flange	X						
75657-S	BUSHING, Prop Flange	X						
66670	BUSHING, Rocker Shaft Inner		X					
STD-1065	DOWEL, Crankshaft		X					
66713	GUIDE, Intake Valve				X			
75838-S	GUIDE, Exhaust Valve				X			
69260	INSERT, Spark Plug		X					
72212	SEAT, Intake Valve			X				
16T19468	SEAT, Exhaust Valve			X				
LW-15628	SEAL, Crankshaft Oil					X		

† - 71903-A is the undersize part number. When ordering, do not specify an undersize code letter.

NOTICE: 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 Part Number (P/N) 18D26098 bearing in 0.003 in. undersize, order P/N 18D26098-M03. Undersize code letter is "M" while oversize code letter is "P". These letters are then followed by the number designating the size in thousandths of an inch.

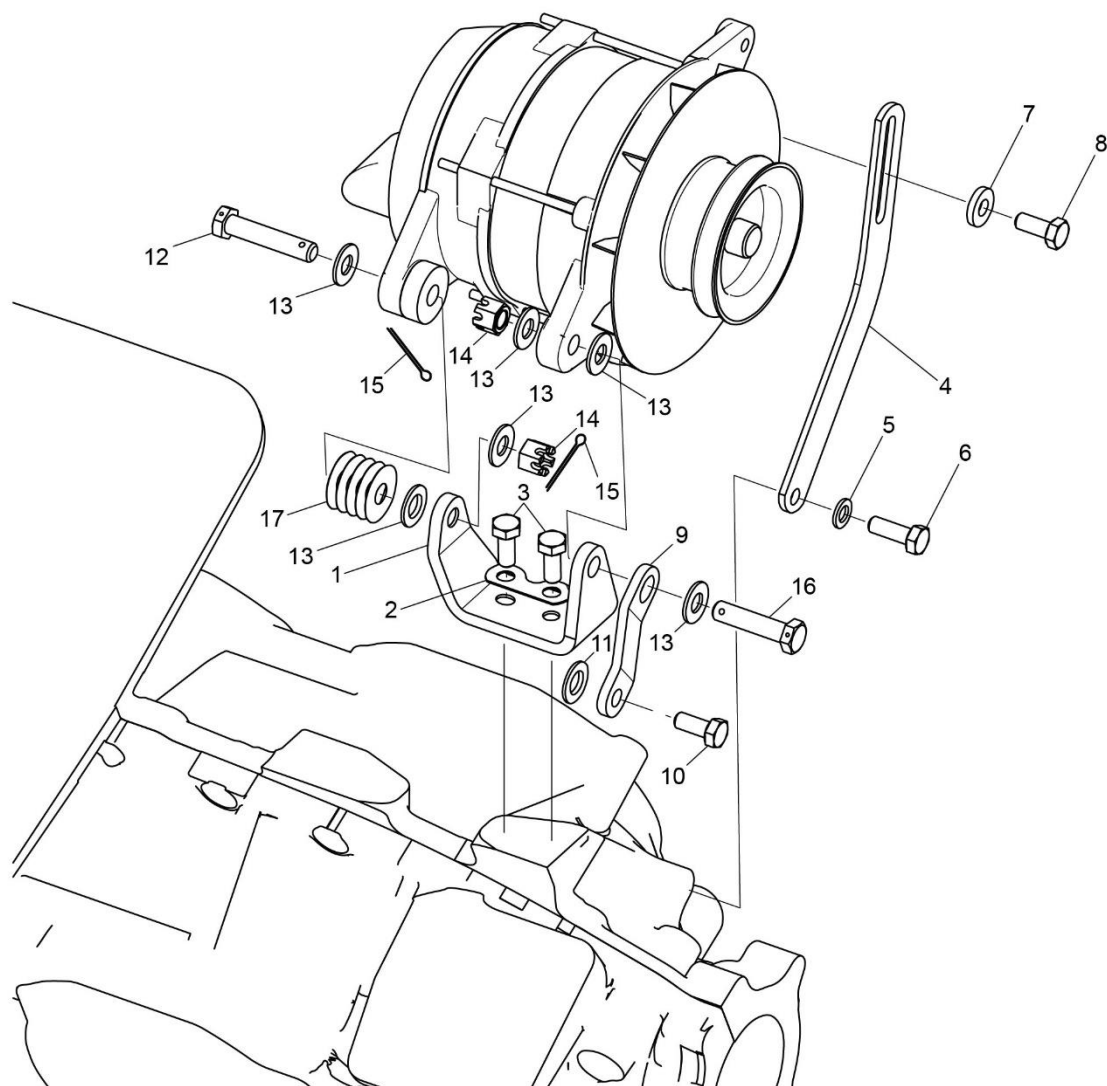


Figure 1A
Alternator Attaching Parts

| DC GENERATION

Figure 1A - Alternator Attaching Parts

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		07A19474	BRACKET, Alternator	1		1	1
2		73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1		1	1
3		LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head	2		2	2
4		75380	LINK, Alternator, adjusting	1		1	1
5		STD-35	WASHER, 5/16 plain	1		1	1
6		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head	1		1	1
7		STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick	1		1	1
8		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head	1		1	1
9		07F23268	STRUT, Alternator support	1		1	1
10		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head	1		1	1
11	❖	STD-35	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	1		1	1
12		AN6-17	BOLT, 3/8-24 x 1-61/64 long, hex. head, drilled end	1		1	1
13		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	10		10	10
14		STD-872	NUT, 3/8-24 slotted	2		2	2
15		STD-713	COTTER PIN, 3/32 diameter x 3/4 long	2		2	2
16		AN6-16	BOLT, 3/8-24 x 1-53/64 long, hex. head	1		1	1
17	AR	76534	SHIM, 1-1/8 O.D. x 13/32 I.D. x .005 thick	AR		AR	AR

AR – As Required

❖ Install between strut and attachment to starter lug.

| DC GENERATION**Figure 1A - Alternator Attaching Parts - Plane Power (Ship Loose)**

Figure Item	Code	Part Number	Description	A1B6
1		07A19474	BRACKET, Alternator	1
2		73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1
3		LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head	2
4		75380	LINK, Alternator, adjusting	1
5		STD-35	WASHER, 5/16 plain	1
6		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head	3
7		STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 th	1
8		07F23268	STRUT, Alternator support	1
9		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	1
10		76534	SHIM, 1-1/8 O.D. x 13/32 I.D. x .005 thick	2

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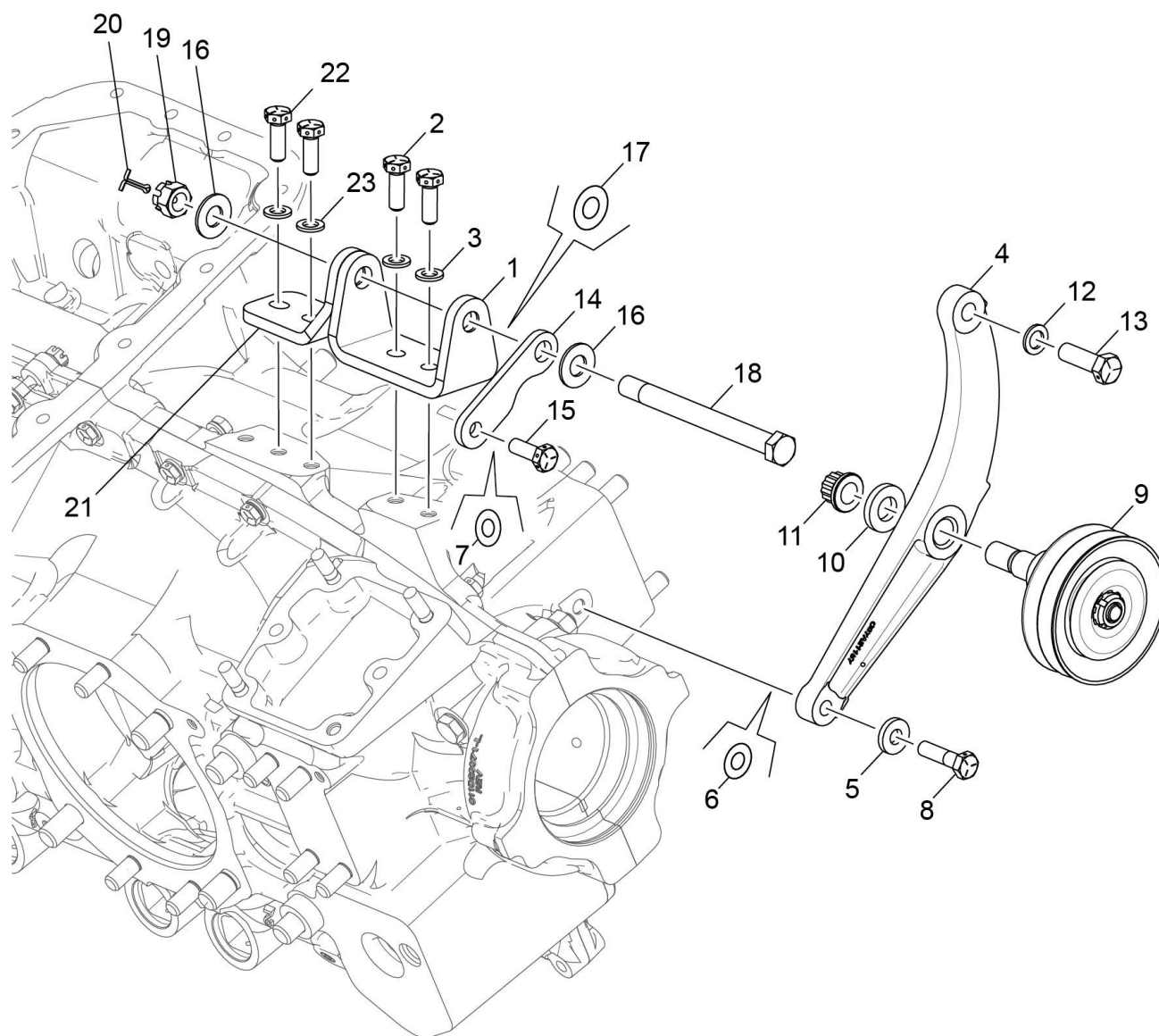


Figure 1B
Alternator Attaching Parts (Alternator 28V - 95A EL)

| DC GENERATION

Figure 1B - Alternator Attaching Parts
(28V - 95A)

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		07A21156	BRACKET, Alternator		1		
2		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex head		2		
3		STD-35	WASHER, 5/16 plain		4		
4		07A21157	BRACKET, Alternator belt, adjust		1		
5		STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick		1		
6		LW-14637	SHIM, 13/16 O.D. x 11/32 I.D. x 0.005 thick		3		
7		LW-14649	SHIM, 13/16 O.D. x 11/32 I.D. x 0.010 thick		3		
8		LW-31H1.22	BOLT, 5/16-18 x 1.22 long hex head, drilled		1		
9		LW-19265	PULLEY AND SHAFT ASSY, Alternator		1		
10		STD-669	WASHER, 0.52 I.D. x 1.00 O.D. x 0.13		1		
11		STD-2221	NUT, 1/2-20, self locking		1		
12		STD-33	WASHER, 3/8 plain		1		
13		LW-38H1.19	BOLT, 3/8-16 x 1.19 long hex head, drilled		1		
14		07F21160	STRUT, Alternator support		1		
15		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex head		3		
16		STD-632	WASHER, 7/16 plain		2		
17		LW-14650	SHIM, 7/8 O.D. x 0.46 I.D. x 0.005 thick		3		
18		AN7-44	BOLT, 7/16-20 x 4.59 long hex head		1		
19		AN310-7	NUT, 7/16-20 plain, slotted		1		
20		STD-713	PIN, Cotter, 0.09 dia. x 3/4 long		1		
21		07A26130	BRACKET, Alternator, aft		1		
22		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex head		2		
23		STD-35	WASHER, 5/16 plain		2		

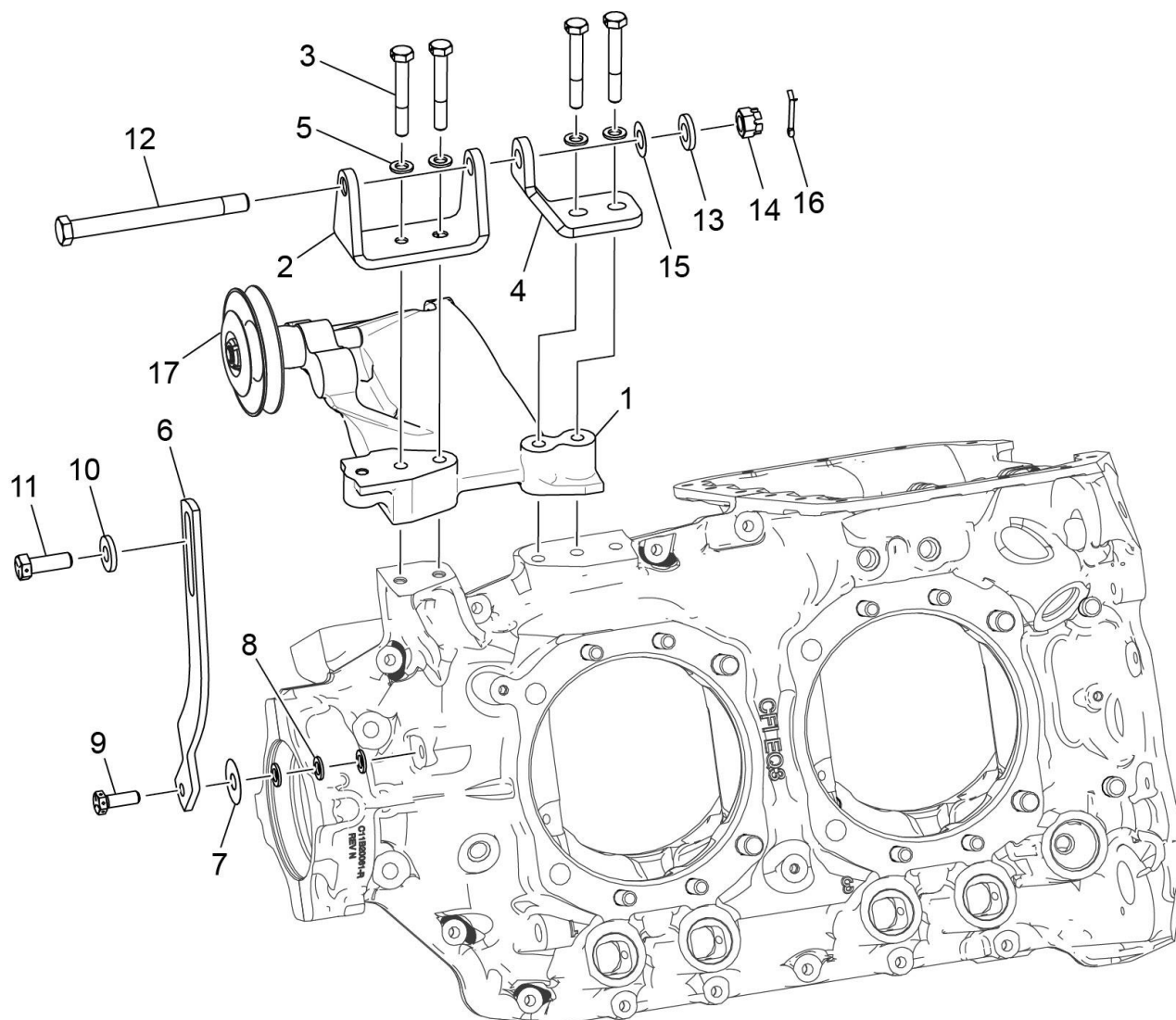


Figure 1C
Alternator Attaching Parts
Dual 24V-70A-90A

| DC GENERATION

Figure 1C - Alternator Attaching Parts

(Dual 24V Alt 70A - 90A)

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		07A22097	BRACKET, Alternator			1	
2		07A22002	BRACKET, Alternator, Ford, right			1	
3		LW-31H2.13	BOLT, 5/16-18 x 2-1/8 long hex. head D			4	
4		07A22125	BRACKET, Alternator, aft			1	
5		STD-35	WASHER, 5/16 plain			4	
6		07F21998	LINK, Alternator adjusting, Ford, right			1	
7		76534	SHIM, 1/8 O.D. x 13/32 I.D. x 0.005 thick			3	
8		STD-35	WASHER, 5/16 plain			1	
9		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head			1	
10		STD-1342	WASHER, 7/8 O.D. x 25/64 I.D. x 1/8 thick			1	
11		LW-38H1.09	BOLT, 3/8-16 x 1 1/10 long hex. head, drilled			1	
12		AN7-44	BOLT, 7/16-20 x 4-19/32 long, hex. head			1	
13		STD-2092	WASHER, 29/64 I.D. x 7/8 O.D. x 1/8 thick			1	
14		AN310-7	NUT, 7/16-20 plain slotted			2	
15		LW-14650	SHIM, 7/8 O.D. x 23/50 I.D. x 0.005 thick			1	
16		STD-713	PIN, Cotter, 3/32 diameter x 3/4 long			3	
17		36A19951	PULLEY AND SHAFT ASSY-idler			1	

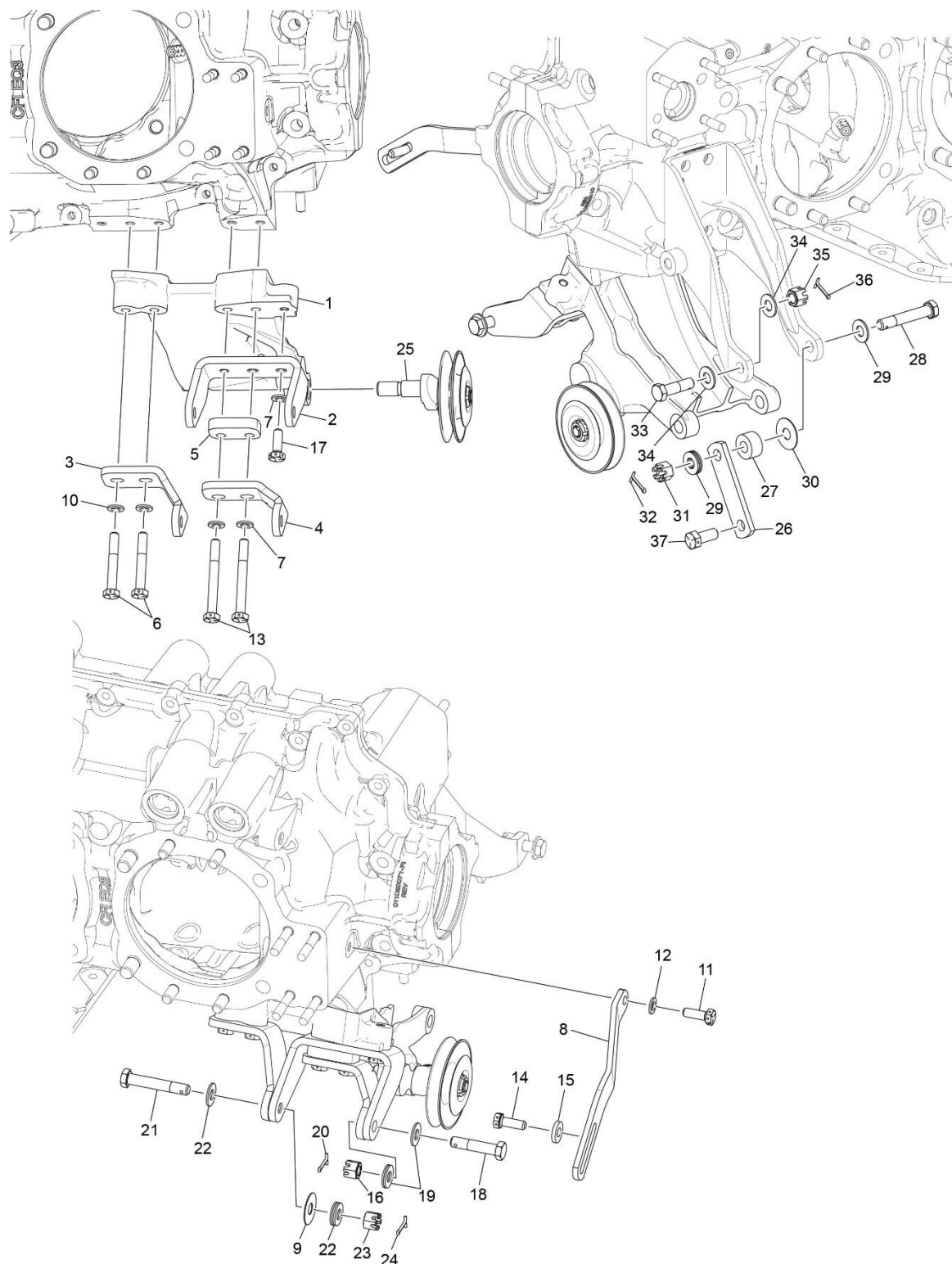


Figure 1D
Alternator Attaching Parts
Dual Alternator & Compressor Setup

| DC GENERATION
Figure 1D - Alternator Attaching Parts
Dual Alternator & Compressor Setup

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		07A22097	BRACKET, Alternator				1
2		07A19880	BRACKET, Alternator - Right (Prestolite)				1
3		07A21910	BRACKET, Alternator aft (Malibu)				1
4		07A21908	BRACKET, Alternator - Inner (Malibu)				1
5		01L21909	SPACER, Alt. bracket inner (Malibu)				1
6		LW-31H2.13	BOLT, 5/16-18 x 2.13 long hex dr				2
7		STD-35	WASHER, 5/16 plain				3
8		07F21298	LINK, Alternator Adjusting (Prestolite)				1
9		76534	SHIM, 1.13 O.D. x 0.41 I.D. x 0.005 thick				5
10		STD-35	WASHER, 5/16 plain				2
11		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head				1
12		STD-35	WASHER, 5/16 plain				1
13		LW-31H2.75	BOLT, 5/16-18 x 2-3/4 long hex dr				2
14		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head				1
15		STD-1727	WASHER, plain 0.33 I.D. X .75 OD X				1
16		STD-872	NUT, 3/8-24 slotted				1
17		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head				1
18		AN6-15	BOLT, 3/8-24UNF x 1.70 lg dr				1
19		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick				3
20		STD-713	PIN, COTTER, 0.09 DIA x 0.75 long				1
21		AN6-21	BOLT, 3/8-24 UNF x 2.20 lg dr s				1
22		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick				4
23		STD-872	NUT, 3/8-24 slotted				1
24		STD-713	PIN, COTTER, 0.09 DIA x 0.75 long				1
25		36A19951	PULLEY AND SHAFT ASSY, Idler				1
26		07F28735	BRACE, Alternator				1

Continued on next page

| DC GENERATION

Figure 1D - Alternator Attaching Parts (Cont.)

Dual Alternator & Compressor Setup

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
27		01L21916	SPACER, Alternator (Prestolite)				1
28		AN6-21	BOLT, 3/8-24 UNF x 2.20 lg-dr s				1
29		STD-690	WASHER, 0.81 O.D. x 0.39 I.D. x 0.06 thick				5
30		76534	SHIM, 1.13 O.D. x .41 I.D. x 0.005 thick				7
31		STD-872	NUT, 3/8-24 slotted				1
32		STD-713	PIN, COTTER, 0.09 DIA x 0.75 long				1
33		AN6-12	BOLT, 3/8-24 x 1-21/64 lg hx hd				1
34		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick				2
35		STD-872	NUT, 3/8-24 slotted				1
36		STD-713	PIN, COTTER, 0.09 DIA x 3/4 long				1
37		LW-31H1.06	BOLT, 5/16-18 x 1-1/16 long hex dr				1

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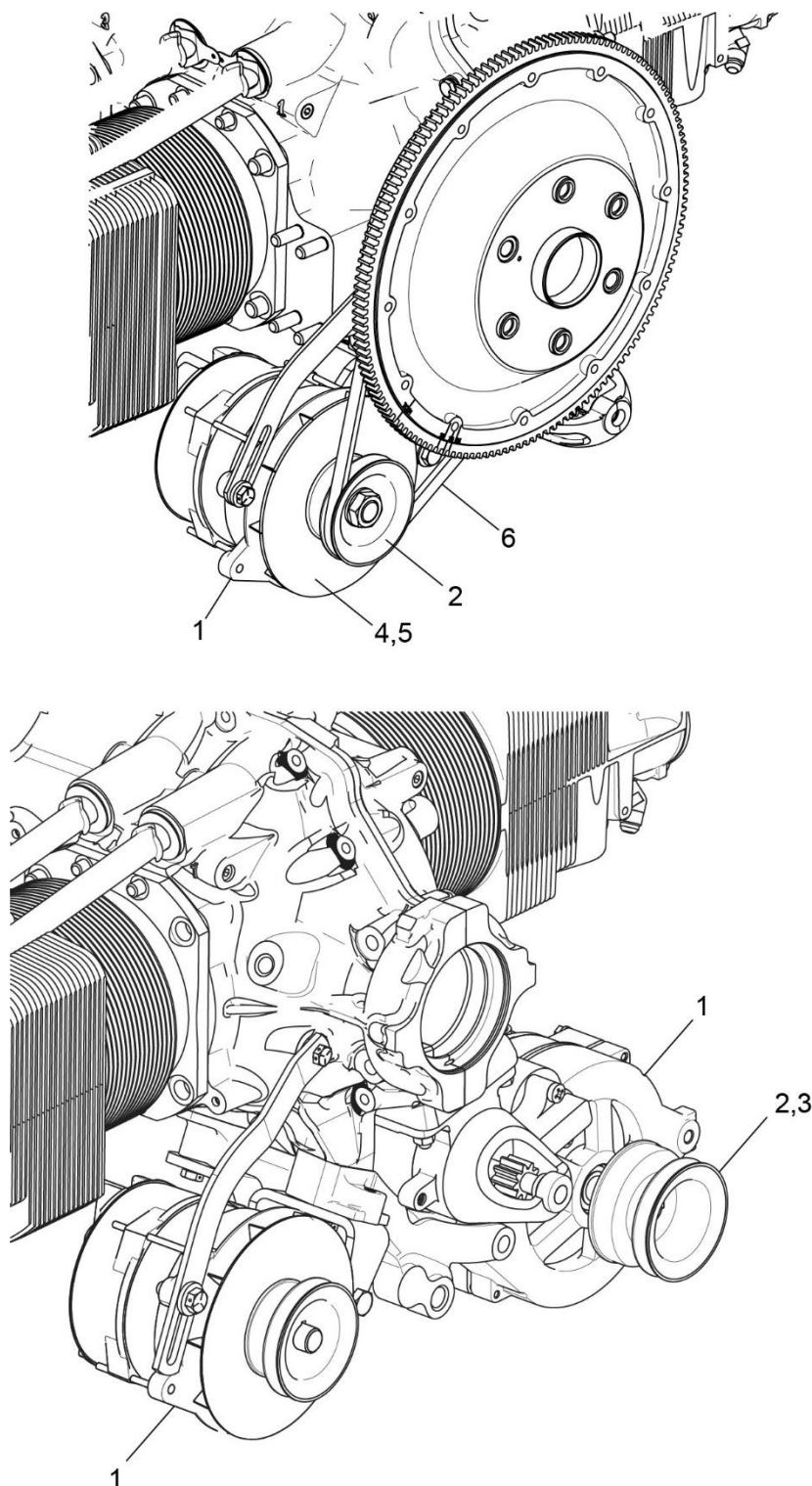


Figure 2
Alternator Assembly and Belt

DC GENERATION**Figure 2 - Alternator Assembly and Belt**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		32B19549	ALTERNATOR ASSEMBLY, 12V-70A(ALX-8521LS)	1			
		32C19553	ALTERNATOR ASSEMBLY, 24V-70A (ALU8521LS)			1	
		32B19567	ALTERNATOR ASSEMBLY, 12V, 70 AMP, Thermocoupled (Type K) (ALX-8521LS)	1		1	1
		32C19568	ALTERNATOR ASSY, 24V-70A THERMO (K Type)	1			
		32C26767	ALTERNATOR ASSEMBLY, Dual 28V-90A (ES4011-LS) right			1	
		32C26768	ALTERNATOR ASSEMBLY, Dual 28V-70A (ES-4018LS) left			1	
2		36B19484	PULLEY, Alternator	1		1	1
		36B21996	PULLEY, Alternator			1	
		36B22008	PULLEY, Alternator			1	
3		32F21674	SPACER, Alternator fan			1	
		32F21668	SPACER, Alternator fan			1	
4		32G21675	FAN, Alternator			1	
		32G21669	FAN, Alternator			1	
5		32R21676	BACK PLATE, Alternator fan			1	
		32R21670	BACK PLATE, Alternator fan			1	
6		37A19773-376	BELT, Alternator drive, 3/8 wide	1		1	1
		37A19773-390	BELT, Alternator, 3/8 wide, 39.000 long				1
		37A19773-470	BELT, Alternator drive 3/8 wide			1	1
		37D21992	BELT, Alternator drive 11 mm			1	
		37A19773M396	BELT, Alternator drive - set of 2 -0.380 Wide		1		
		37B19774-482	BELT, Compressor drive 1/2 wide				1
NOTICE: Refer to the latest revision of Lycoming Service Instruction No. 1154 for complete listing of FAA approved starters and alternators.							

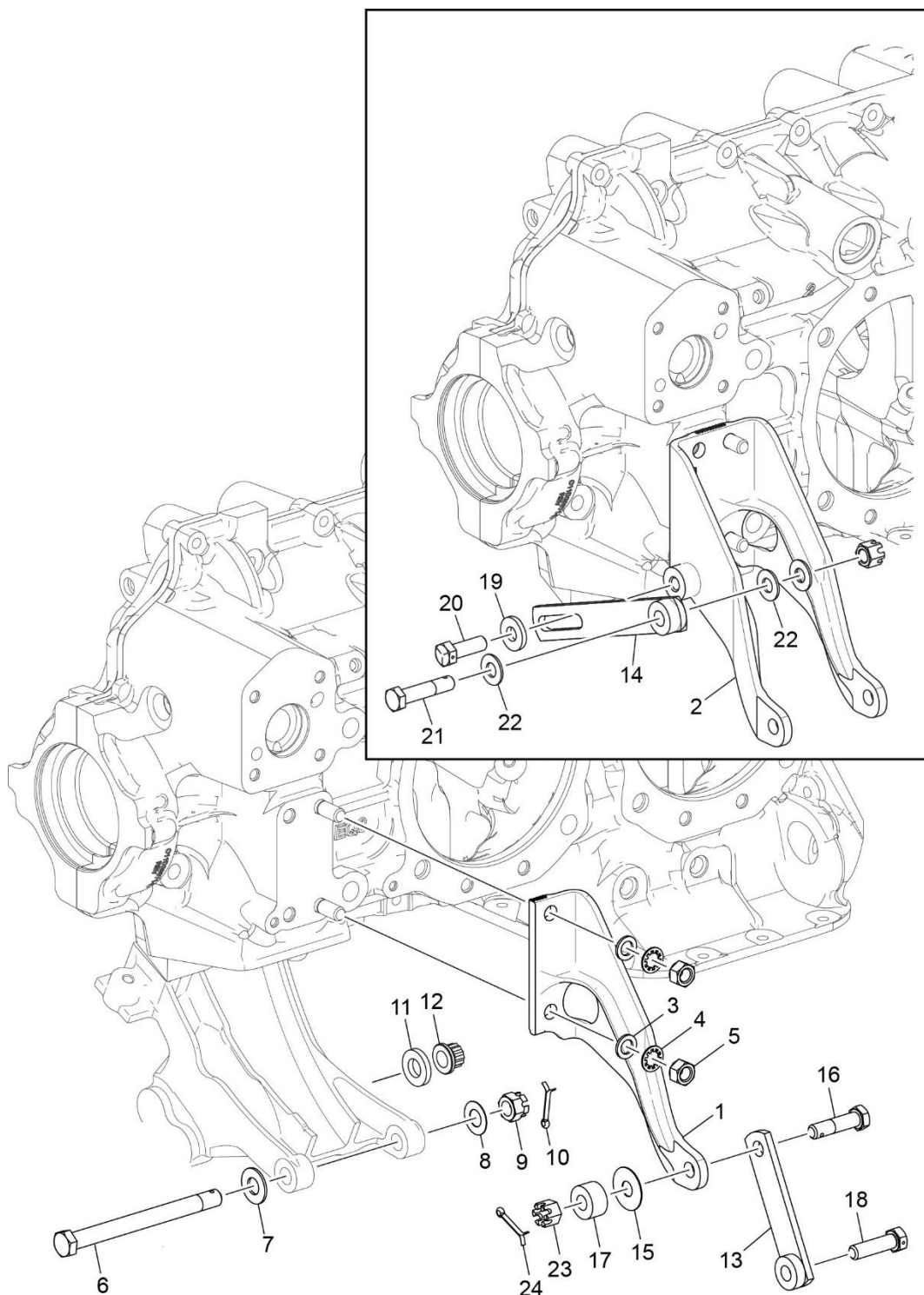


Figure 3
Compressor Attaching Parts

FRONT SECTION**| Figure 3 - Compressor Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		07A21292	BRACKET, Compressor			1	
2		07A21030	BRACKET, Compressor				1
3		STD-33	WASHER, 3/8 plain			2	4
4		STD-678	WASHER, 3/8 lock int teeth			2	4
5		383-B	NUT, 3/8-24 plain			2	4
6		AN7-46	BOLT, 7/16-20 x 4.84 lg hex			1	1
7		STD-632	WASHER, 7/16 plain			1	1
8		LW-14650	SHIM, 0.88 O.D. x 0.46 I.D. x .005 thick			3	4
9		AN310-7	NUT, 7/16-20 plain slotted			1	1
10		STD-713	PIN, Cotter, 3/32 diameter x 3/4 long			1	1
11		STD-669	WASHER, 0.52 I.D. x 1.00 O.D. x 0.13			1	1
12		STD-2221	NUT, 1/2-20 self locking			1	1
13		07F19875	LINK, Alt. LT Ford			1	
14		07F28736	LINK, Freon Compressor				1
15		76534	SHIM, 1.13 O.D. x .41 I.D. x .005 thick			3	
16		AN6-13	BOLT, 3/8-24 x 1.45 lg-dr			1	
17		01L21504	SPACER, 0.40 I.D. x 0.88 O.D. x 0.48 long.			1	
18		LW-38H1.31	BOLT, 3/8-16 X 1.31 long hex dr			1	
19		STD-1342	WASHER, 0.88 O.D. x 0.39 I.D. x .13 thick				1
20		LW-38H1.09	BOLT, 3/8-16 x 1.09 Long Hex D				1
21		AN6-15	BOLT, 3/8-24 UNF x 1.70 lg-dr S				1
22		STD-690	WASHER, 0.81 O.D. x 0.39 I.D. x 0.06 thick				3
23		STD-872	NUT, 3/8-24 Slotted			1	1
24		STD-713	PIN, Cotter, 0.09 diameter x 0.75 long			1	1

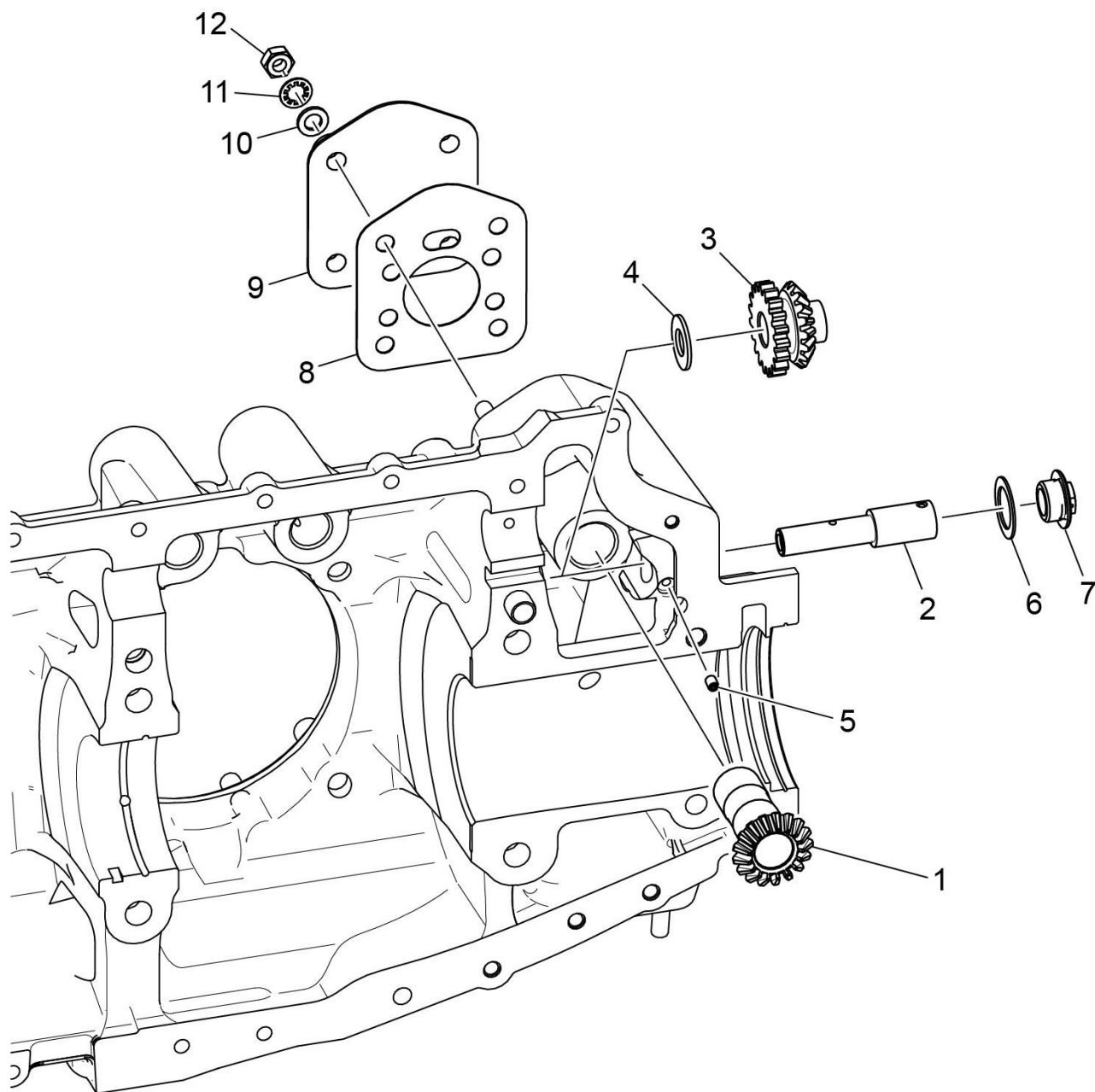


Figure 4
Propeller Governor Drive and Attaching Parts

FRONT SECTION

Figure 4 - Propeller Governor Drive and Attaching Parts

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		77875	GEAR, Propeller governor driven			1	1
2		LW-14021	SHAFT, Propeller governor idler gear			1	1
3		77874	GEAR ASSY, Propeller governor idler			1	1
4		73249	WASHER, Thrust (0.0585 - 0.0595 thick)			AR	AR
		73250	WASHER, Thrust (0.062 - 0.063 thick)			AR	AR
		73251	WASHER, Thrust (0.0655 - 0.0665 thick)			AR	AR
		73252	WASHER, Thrust (0.069 - 0.070 thick)			AR	AR
		01L21418	WASHER, Thrust (0.055 - 0.056 thick)			AR	AR
5		AN565B1032H5	SET SCREW, No. 10-32 x 5/16 long			1	1
6		70455	GASKET, 25/32 I.D. x 1-1/8 O.D. x 1/16 thick			1	1
7		LW-13896	PLUG, 3/4-16 hex. hd			1	1
8		72053	GASKET, Governor			1	1
9		72378	COVER, Governor drive			1	1
10		STD-35	WASHER, 5/16 plain			4	4
11		STD-475	WASHER, 5/16 lock, internal teeth			4	4
12		STD-1410	NUT, 5/16-18 plain			4	4
AR – As Required							

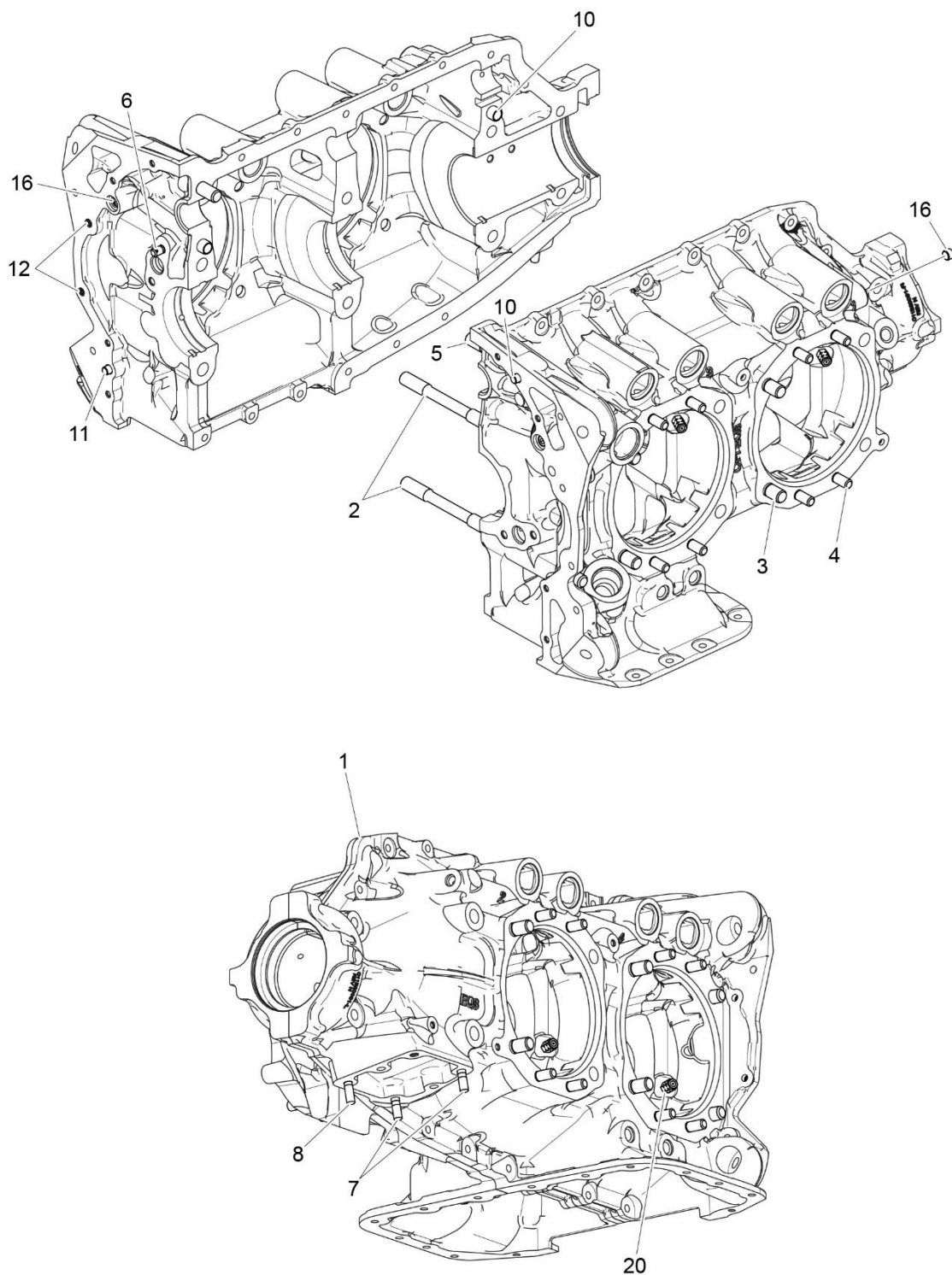


Figure 5A
Crankcase Assembly A1A6, A3A6

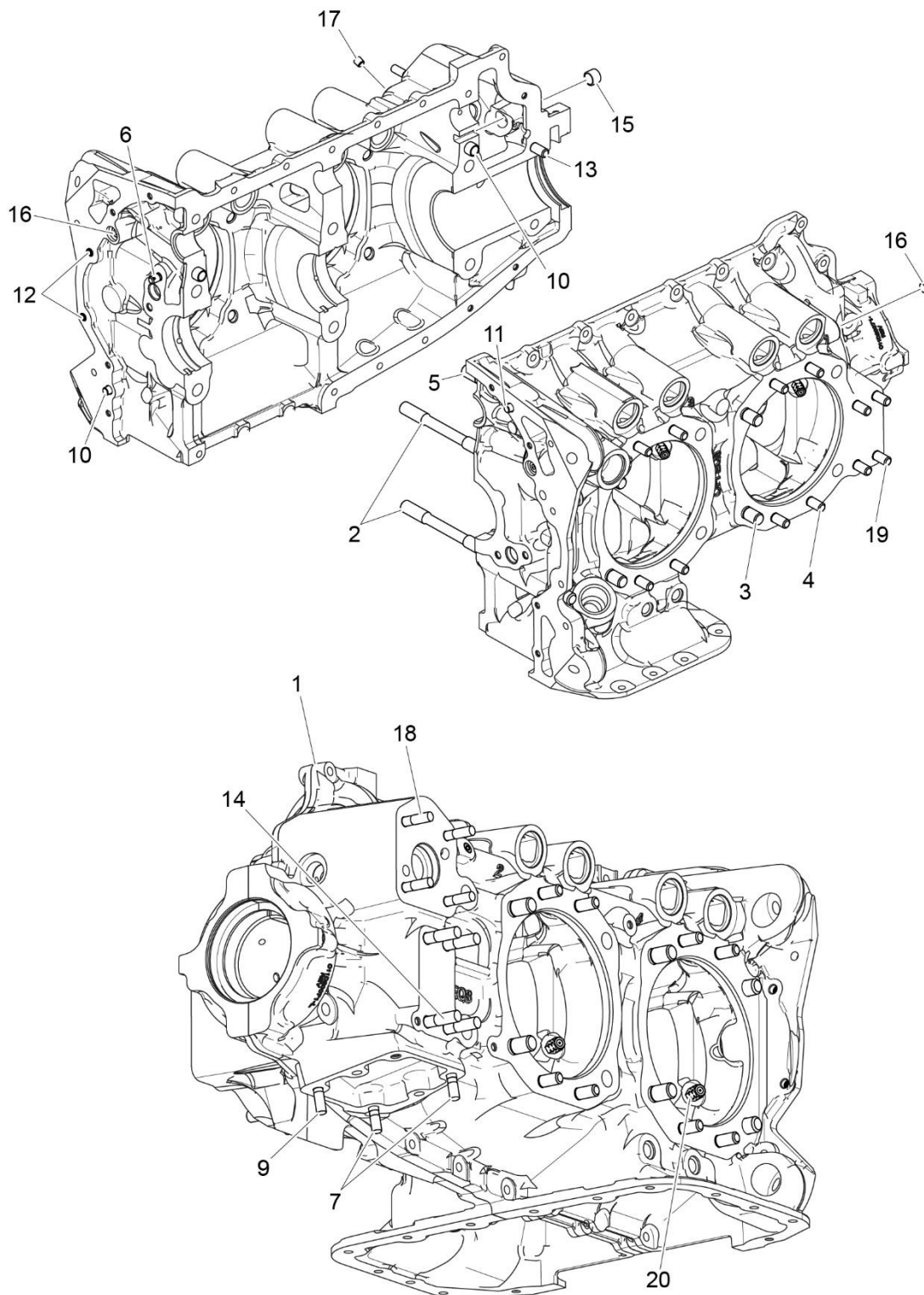


Figure 5B
Crankcase Assembly A1B6, A3B6

POWER SECTION
Figures 5A/5B - Crankcase Assembly

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		11U20391-1S	CRANKCASE ASSEMBLY	1	1		
		11U28752-1S1	CRANKCASE ASSEMBLY			1	1
		11U28752-1S3	CRANKCASE ASSEMBLY			1	1
2		01A23544	STUD, 1/2-13 x 9-27/32 long	2	2	2	2
3		50-15	STUD, 1/2-13 x 1-7/8 long	8	8	8	8
4		38-13	STUD, 3/8-16 x 1-5/8 long	13	13	13	13
5		38D-17	STUD, 3/8-16 x 2-1/8 long, drilled	1	1	1	1
6		LW-13793	STUD, 5/16-18 x 15/16 long, drilled	1	1	1	1
7		31C-12	STUD, 5/16-18 x 1-1/2 long	2	2	2	2
8		31C-13	STUD, 5/16-18 x 1-5/8 long	1	1		
9		31C-14	STUD, 5/16-18 x 1-3/4 long			1	1
10		STD-557	DOWEL, 1/2 diameter x 11/16 long, hollow	2	2	2	2
11		STD-514	DOWEL, 5/16 diameter x 1/2 long	2	2	2	2
12		STD-1623	INSERT, 1/4-20 UNC x 3/8 long	2	2	2	2
13		38-22	STUD, 3/8-16 x 1-5/8 long			1	1
14		38-13	STUD, 3/8-16 x 1-5/8 long			4	4
15		72158	BUSHING, Governor drive idler shaft			1	1
16		1102	PLUG, 1/8-27 NPT, Allen head	6	6	5	5
17		STD-1339	PLUG, 1/16-27 NPT, Allen head			1	1
18		31C-16	STUD, 5/16-18 x 2.00 long			4	4
19		31C-19	STUD, 1/16-18 x 2.38 long			4	4
20		12E23021	NOZZLE ASSEMBLY, Piston cooling	4	4	4	4

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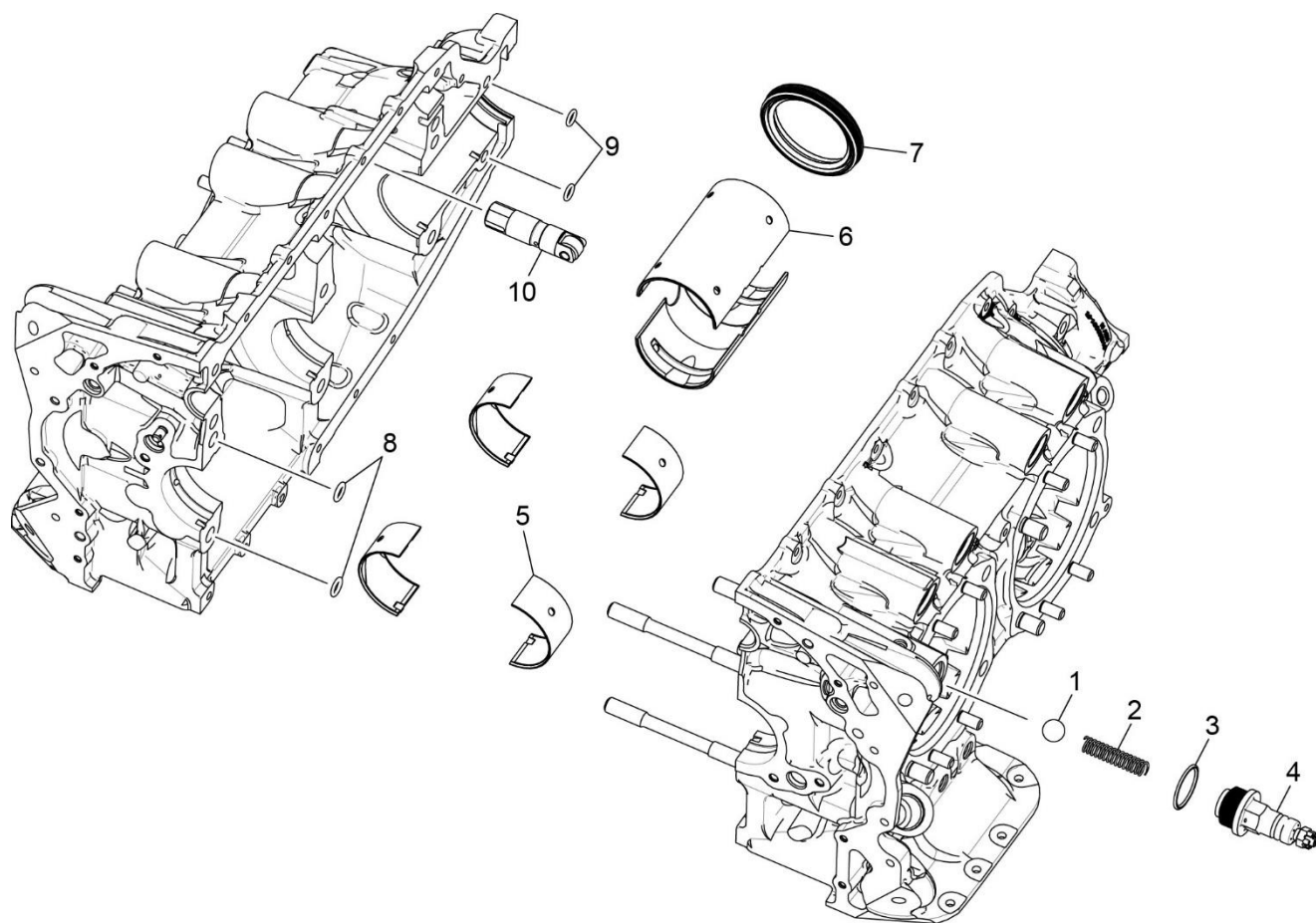


Figure 6
Crankcase Related Parts

POWER SECTION

| **Figure 6 - Crankcase Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		1028-B	BALL, 11/16 diameter	1
2	*	61084	SPRING, Oil pressure relief valve	1
	*	68668	SPRING, Oil pressure relief valve	1
	*	77467	SPRING, Oil pressure relief valve	1
	*	LW-11713	SPRING, Oil pressure relief valve	1
	*	LW-18085	SPRING, Oil pressure relief valve	1
3		06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1
4		77808	VALVE ASSEMBLY, Oil pressure relief valve	1
5		18E23886	BEARING, Crankshaft hi-crush thin wall	4
6		18B23885	BEARING, Crankshaft-front	2
7	**	LW-15628	SEAL, Crankshaft, Oil	1
8		72075	SEAL, Oil, 3/32 section x 7/16 I.D.	2
9		72091	RING, Oil seal, 23/64 I.D. x 1/10 diameter	2
10	***	LRT23381	BODY ASSEMBLY, Hydraulic roller tappet	8
* Select spring to give a minimum of three threads exposed on adjusting screw to allow field adjustment. Reference latest revision of Lycoming Table of Limits SSP-1776, Part I for spring identification. ** Refer to latest revision of Lycoming Service Instruction No. 1324 for installation. *** Sold as exchange part only.				

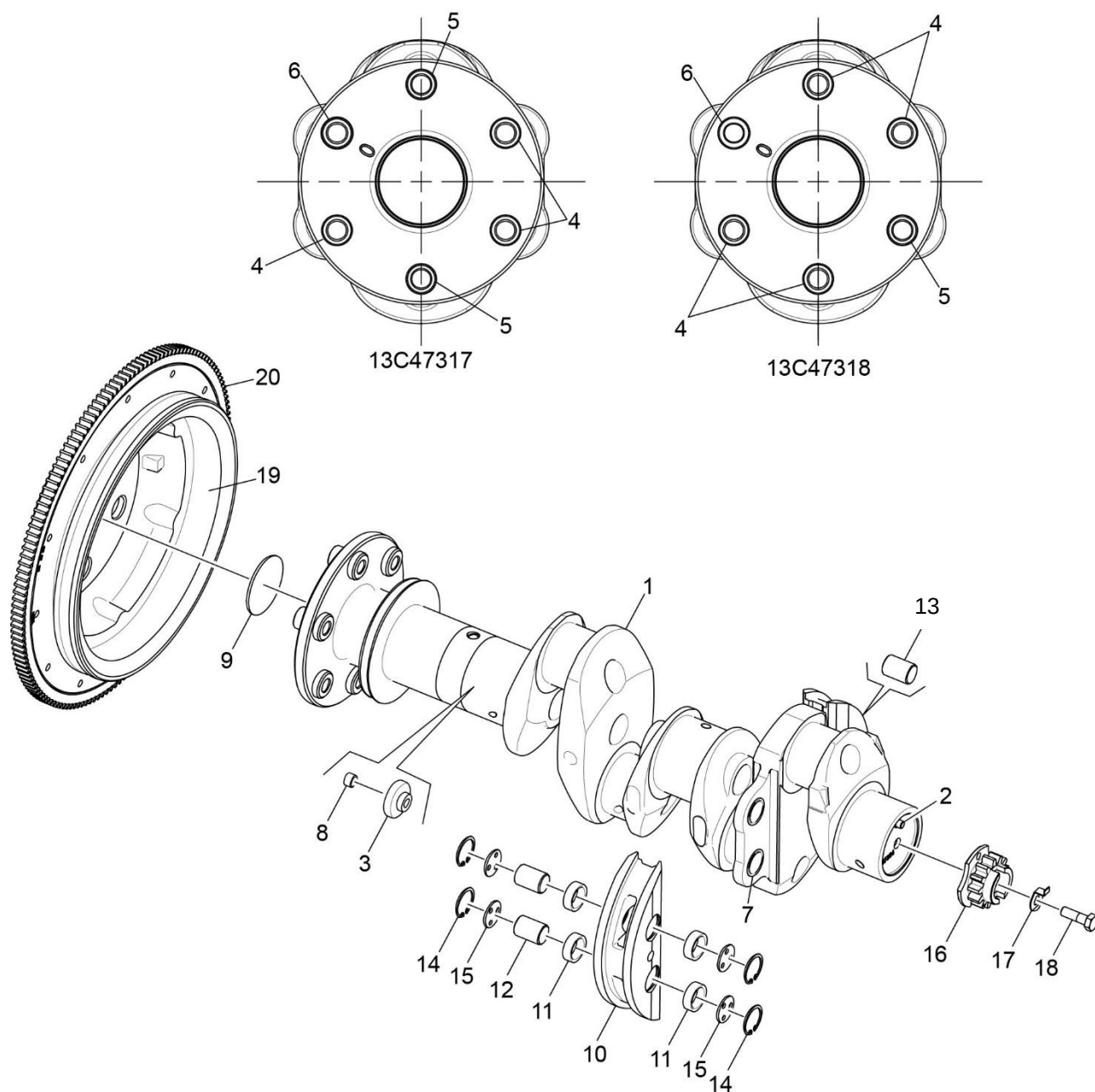


Figure 7
Crankshaft and Counterweight Assembly and Related Parts

POWER SECTION

| **Figure 7 - Crankshaft and Counterweight Assembly and Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		13C47317	CRANKSHAFT AND BUSHING ASSEMBLY	1		1	
		13C47318	CRANKSHAFT AND BUSHING ASSEMBLY		1		1
2		STD-1065	DOWEL, Stepped, 5/16 & 1/4 diameter	1	1	1	1
3		74711	PLUG, 1-1/4	1	1	1	1
4		75656-S	BUSHING, Prop flange, long	3	4	3	4
5		72155-S	BUSHING, Prop flange, short	2	1	2	1
6		79024-S	BUSHING, Propeller flange, indexing	1		1	
		75657-S	BUSHING, Propeller flange, indexing		1		1
7		73810	BUSHING, Crankshaft counterweight	4	4	4	4
8		1102	PLUG, 1/8 pipe	1	1	1	1
9		LW-14529	PLUG, 2-1/16 diameter expansion	1	1	1	1
10		LW-19227	COUNTERWEIGHT ASSY	2	2	2	2
11		71903-A	BUSHING, Dynamic counterweight	8	8	8	8
12		14W21696	ROLLER, Dynamic counterweight	2	2	2	2
13		72797	ROLLER, Dynamic counterweight, 6.3 order	2	2	2	2
14		LW-14820	RING, Internal retaining	8	8	8	8
15		71907	WASHER, Counterweight	8	8	8	8
16		13S19646	GEAR, Crankshaft	1	1	1	1
17		LW-18639	LOCKPLATE, Crankshaft gear	1	1	1	1
18		STD-2246	BOLT, 5/16-24 x 1.00 long	1	1	1	1
19		LW-16471	SUPPORT ASSEMBLY, Starter ring gear	1	1	1	1
		31M19861	SUPPORT ASSEMBLY, Starter ring gear				1
		31M21994	SUPPORT ASSEMBLY, Starter ring gear			1	
		74977	SUPPORT ASSEMBLY, Starter ring gear		1		
20		72566	GEAR, Starter ring, 12/14 pitch	1	1	1	1

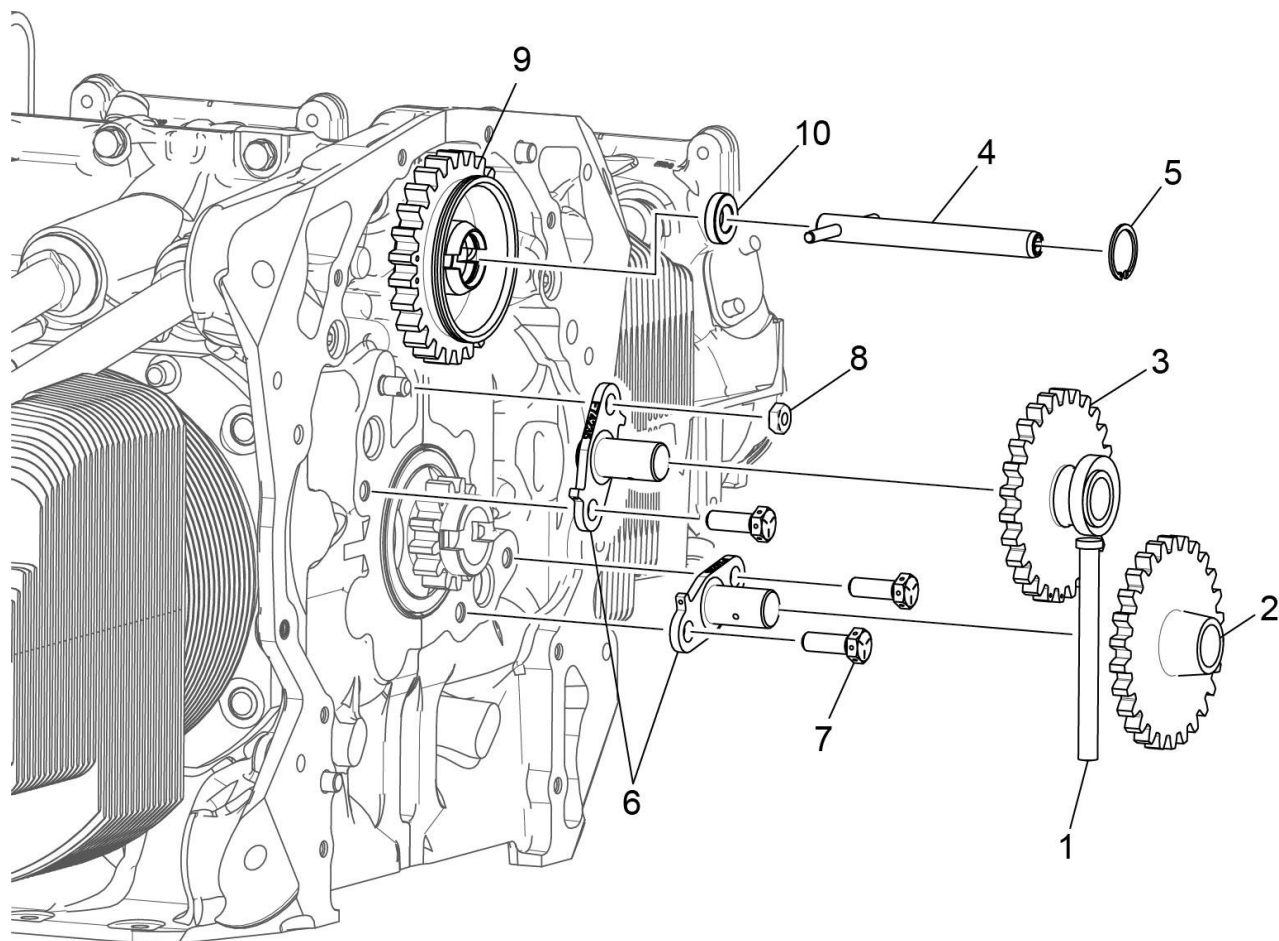


Figure 8
Crankshaft Idler Gears, Tachometer Drive, and Camshaft

POWER SECTION

Figure 8 - Crankshaft Idler Gears, Tachometer Drive, and Camshaft

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		23D26777	PLUNGER, Fuel pump, long	1	1	1	1
2		74996	GEAR ASSEMBLY, Crankshaft idler, plain	1	1	1	1
3		75072	GEAR ASSEMBLY, Crankshaft idler	1	1	1	1
4		76121	SHAFT ASSEMBLY, Tachometer	1	1	1	1
5		STD-2231	RING, Internal retaining	1	1	1	1
6		LW-13796	SHAFT, Crankshaft idler gear	2	2	2	2
7		LW-31H0.88	BOLT, 5/16-18 x 7/8 long, hex. head, drilled	3	3	3	3
8		STD-2168	NUT, 5/16-18 NC-3 slotted shear	1	1	1	1
9		15M23452	CAMSHAFT ASSEMBLY	1	1		
		15M23456	CAMSHAFT ASSEMBLY			1	1
		15M28669	CAMSHAFT ASSEMBLY, (with plug, no tach)		1		
10		76118	SPACER, Tachometer shaft centering	1	1	1	1

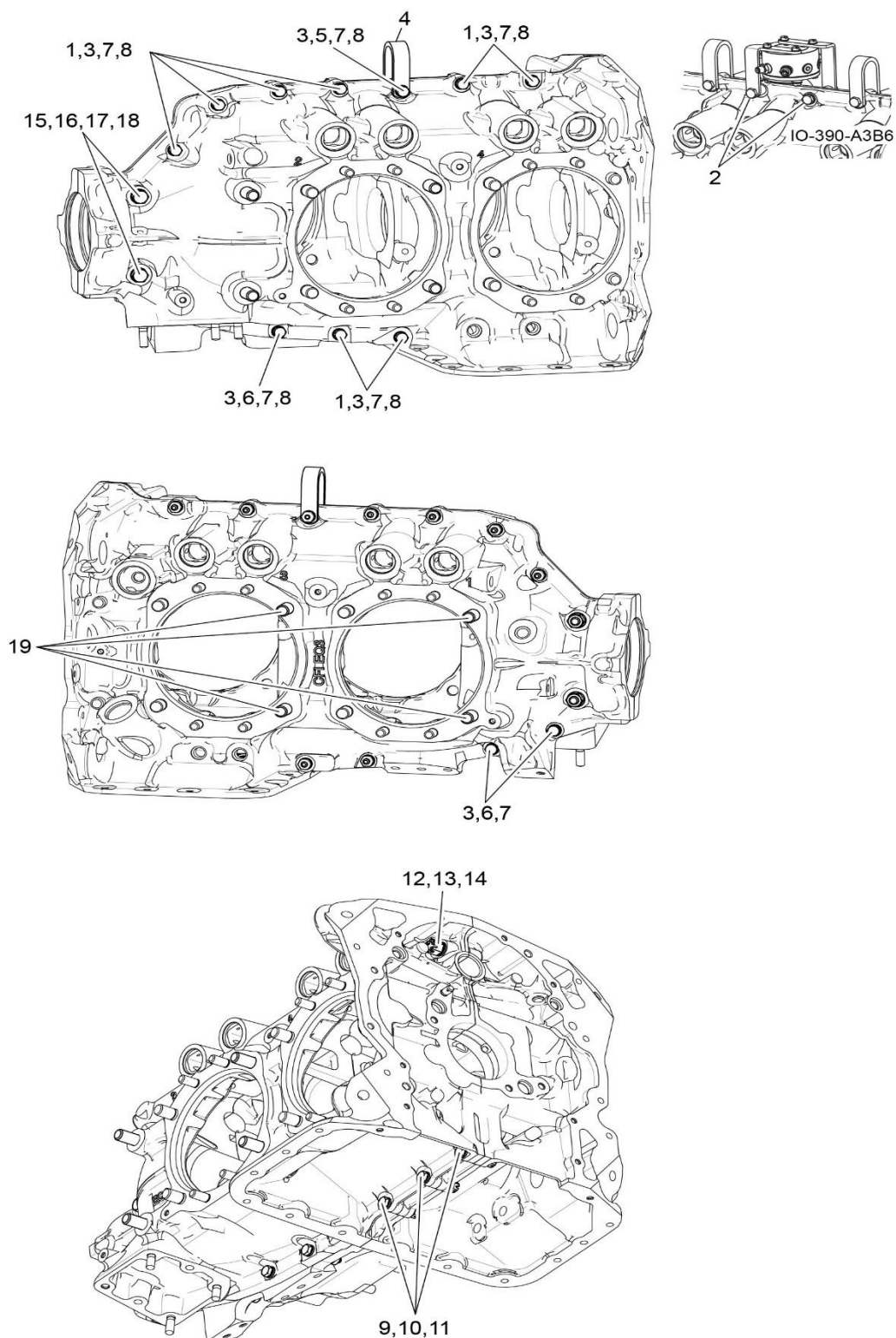


Figure 9
Crankcase Attaching Parts

POWER SECTION

Figure 9 - Crankcase Attaching Parts

Figure Item	Code	Part Number	Description	Units per Assembly				
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6	
1		LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head	8	8	8	8	*5
2		NASM90725-15	BOLT, 1/4-20 x 2.13 long hex					*2
3		STD-8	WASHER, 1/4 plain	19	19	20	20	*17
4		60803	STRAP, Lifting	1	1	1	1	*2
5		LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. head	1	1	1	1	*2
6		LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	3	3	4	4	*4
7		STD-160	WASHER, 1/4 lock, internal teeth	12	12	13	13	*13
8		STD-1411	NUT, 1/4-20 plain	9	9	9	9	*9
9		LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head, drilled	3	3	3	3	*3
10	AR	STD-8	WASHER, 1/4 plain	9	9	9	9	*9*
11		STD-2249	NUT, 1/4-20 slotted	3	3	3	3	*3
12		STD-33	WASHER, 3/8 plain	1	1	1	1	*2
13		NAS1149F0632P	WASHER, 3/8 plain, thin	1	1	1	1	*3
14		STD-872	NUT, 3/8-24 slotted	1	1	1	1	*1
15		AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. head	2	2	1	1	*1
16		STD-33	WASHER, 3/8 plain	4	4	3	3	*3
17		STD-678	WASHER, 3/8 lock, internal teeth	2	2	2	2	*2
18		STD-596	NUT, 3/8-24 plain	2	2	2	2	*2
19		01A22453	STUD, 1/2-20 x 10-1/2 long	4	4	4	4	*4
AR – As Required								
* Quantities for Front Governor - Dual Lifting Strap								

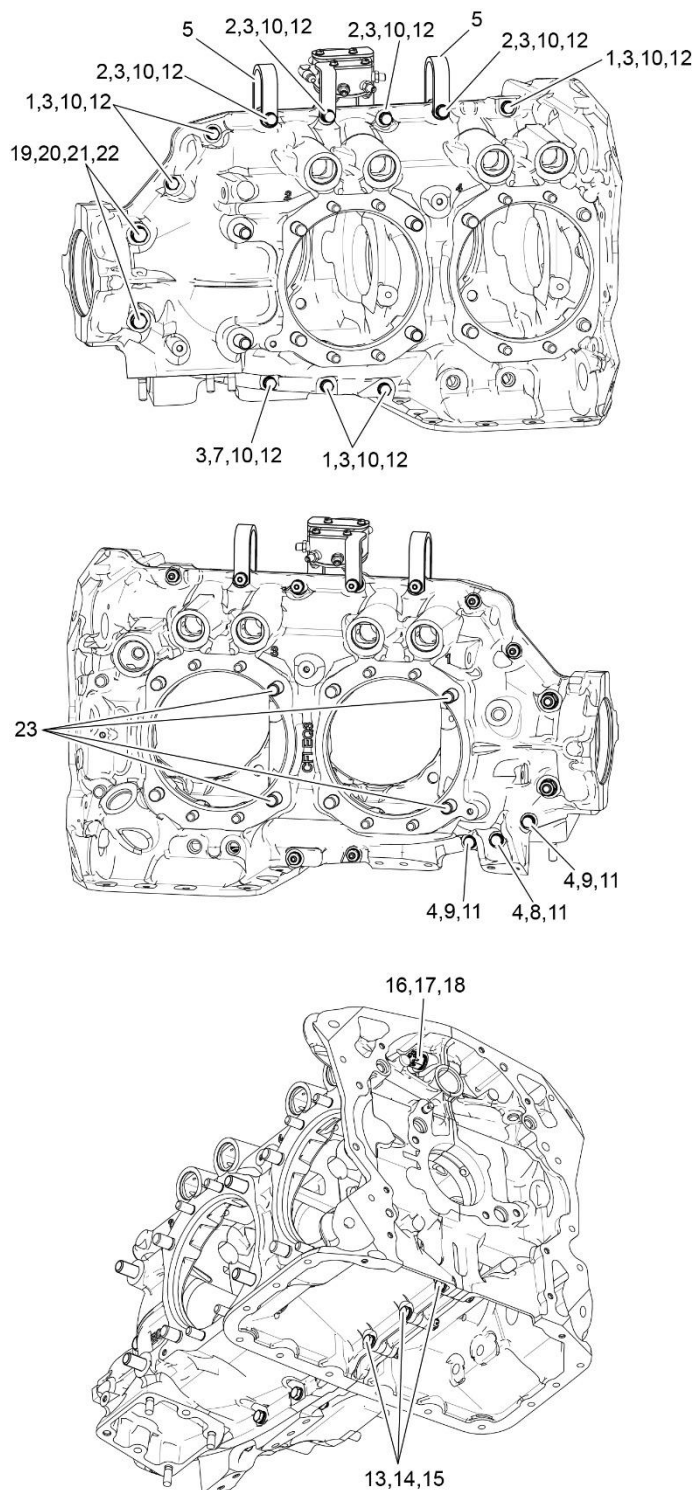


Figure 9A
Crankcase Attaching Parts
 (Use with Crankcase Assembly P/N 11U28752-1S)

POWER SECTION

Figure 9A - Crankcase Attaching Parts
(Use with Crankcase Assembly P/N 11U28752-1S)

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head	5
2		NASM90725-15	BOLT, 1/4-20 x 2.13 long hex	2
3		STD-8	WASHER, 1/4 plain	14
4		STD-35	WASHER, 5/16 plain	4
5		60803	STRAP, Lifting	2
6		LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. head	2
7		LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	1
8		LW-31-1.31	BOLT, 5/16-18 x 1-5/16 long, hex. head	2
9		LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. head	2
10		STD-160	WASHER, 1/4 lock, internal teeth	10
11		STD-475	WASHER, 5/16 lock, internal teeth	4
12		STD-1411	NUT, 1/4-20 plain	9
13		LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head, drilled	3
14	AR	STD-8	WASHER, 1/4 plain	9
15		STD-2249	NUT, 1/4-20 slotted	3
16		STD-33	WASHER, 3/8 plain	2
17		NAS1149F0632P	WASHER, 3/8 plain, thin	3
18		STD-872	NUT, 3/8-24 slotted	1
19		AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. head	1
20		STD-33	WASHER, 3/8 plain	3
21		STD-678	WASHER, 3/8 lock, internal teeth	2
22		STD-596	NUT, 3/8-24 plain	2
23		01A22453	STUD, 1/2-20 x 10-1/2 long	4
AR – As Required				

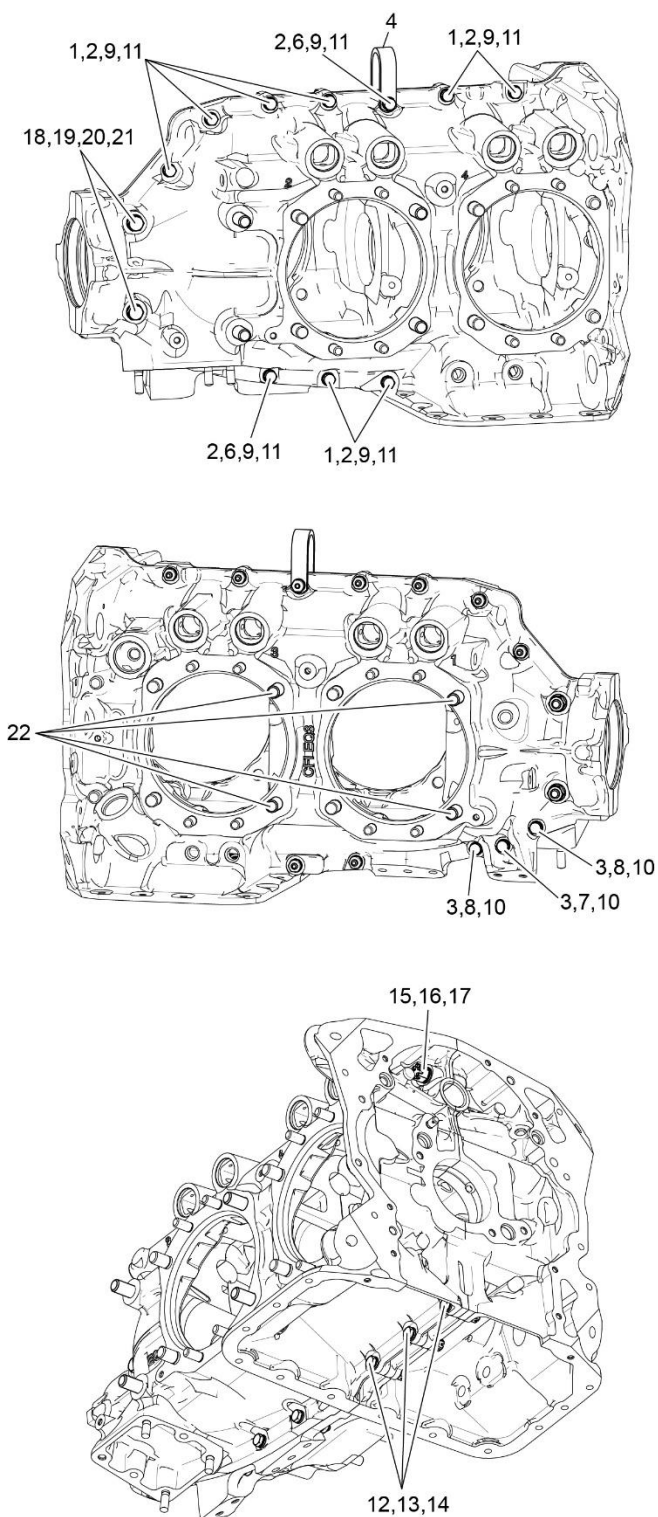


Figure 9B
Crankcase Attaching Parts
 (Use with Crankcase Assembly P/N 11U28752-1S3)

POWER SECTION

Figure 9B - Crankcase Attaching Parts
(Use with Crankcase Assembly P/N 11U28752-1S3)

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head	8
2		STD-8	WASHER, 1/4 plain	17
3		STD-35	WASHER, 5/16 plain	3
4		60803	STRAP, Lifting	1
5		LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. head	1
6		LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	1
7		LW-31-1.25	BOLT, 5/16-18 x 1-1/4 long, hex. head	1
8		LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. head	2
9		STD-160	WASHER, 1/4 lock, internal teeth	10
10		STD-475	WASHER, 5/16 lock, internal teeth	3
11		STD-1411	NUT, 1/4-20 plain	9
12		LW-25S1.50	BOLT, 1/4-20 x 1-1/2 long, hex. head, drilled	3
13	AR	STD-8	WASHER, 1/4 plain	9
14		STD-2249	NUT, 1/4-20 slotted	3
15		STD-33	WASHER, 3/8 plain	1
16		NAS1149F0632P	WASHER, 3/8 plain, thin	1
17		STD-872	NUT, 3/8-24 slotted	1
18		AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. head	1
19		STD-33	WASHER, 3/8 plain	3
20		STD-678	WASHER, 3/8 lock, internal teeth	2
21		STD-596	NUT, 3/8-24 plain	2
22		01A22453	STUD, 1/2-20 x 10-1/2 long	4

AR – As Required

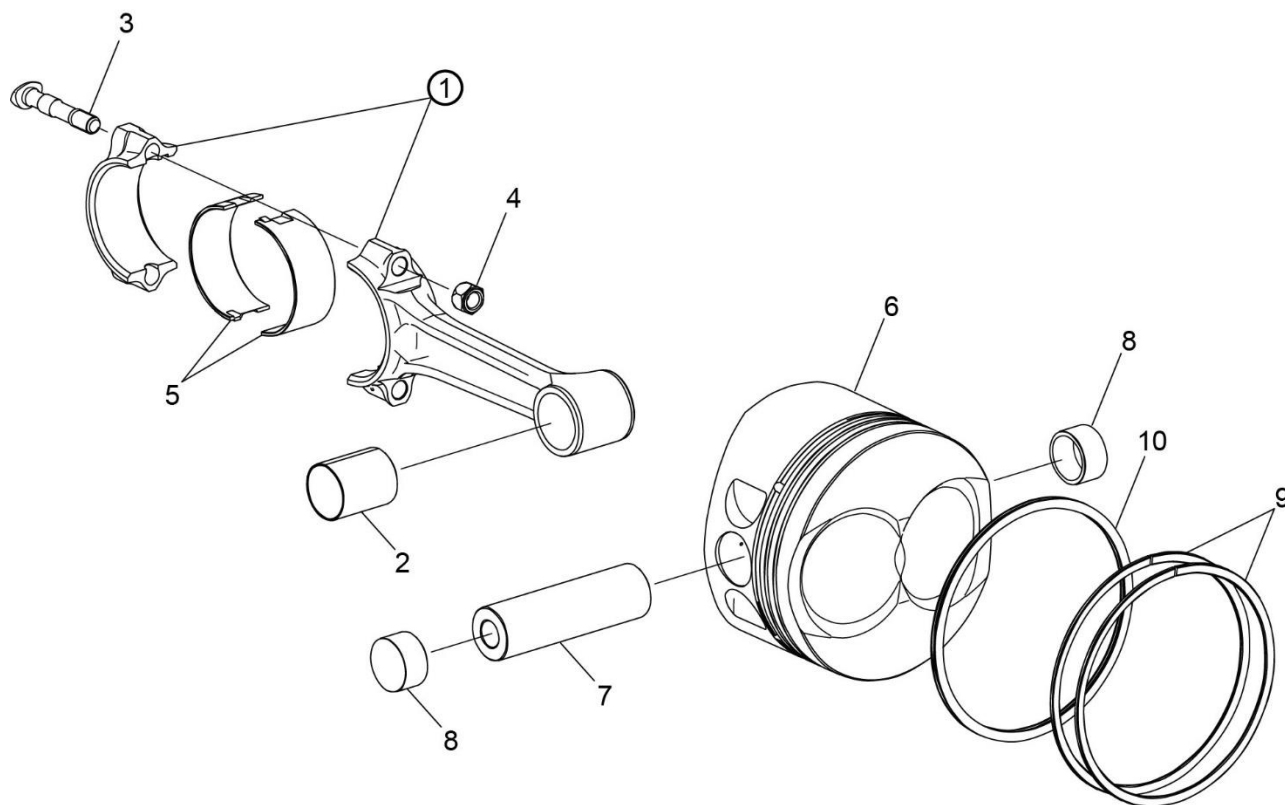


Figure 10
Connecting Rods, Pistons, and Ring Assemblies

CYLINDER SECTION

Figure 10 - Connecting Rods, Pistons, and Ring Assemblies

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		77450-S	CONNECTING ROD ASSEMBLY	4	4	4	4
2		01K28983	BUSHING, Connecting rod, upper	4	4	4	4
3		75060	BOLT, Connecting rod	8	8	8	8
4		LW-12186	NUT, Connecting rod bolt	8	8	8	8
5		18M23887	BEARING, Connecting rod	8	8	8	8
6		14E23911	PISTON, Compression ratio 8.90:1	4	4	4	4
7		14J22048	PIN, Piston	4	4	4	4
8	*	72198	PLUG, Piston pin	8	8	8	8
9		14G22050	RING, Piston compression	8	8	8	8
10		14H29865	RING, Piston oil regulating, expander type	4	4	4	4
* Refer to the latest revision of Lycoming Service Instruction No. 1267							

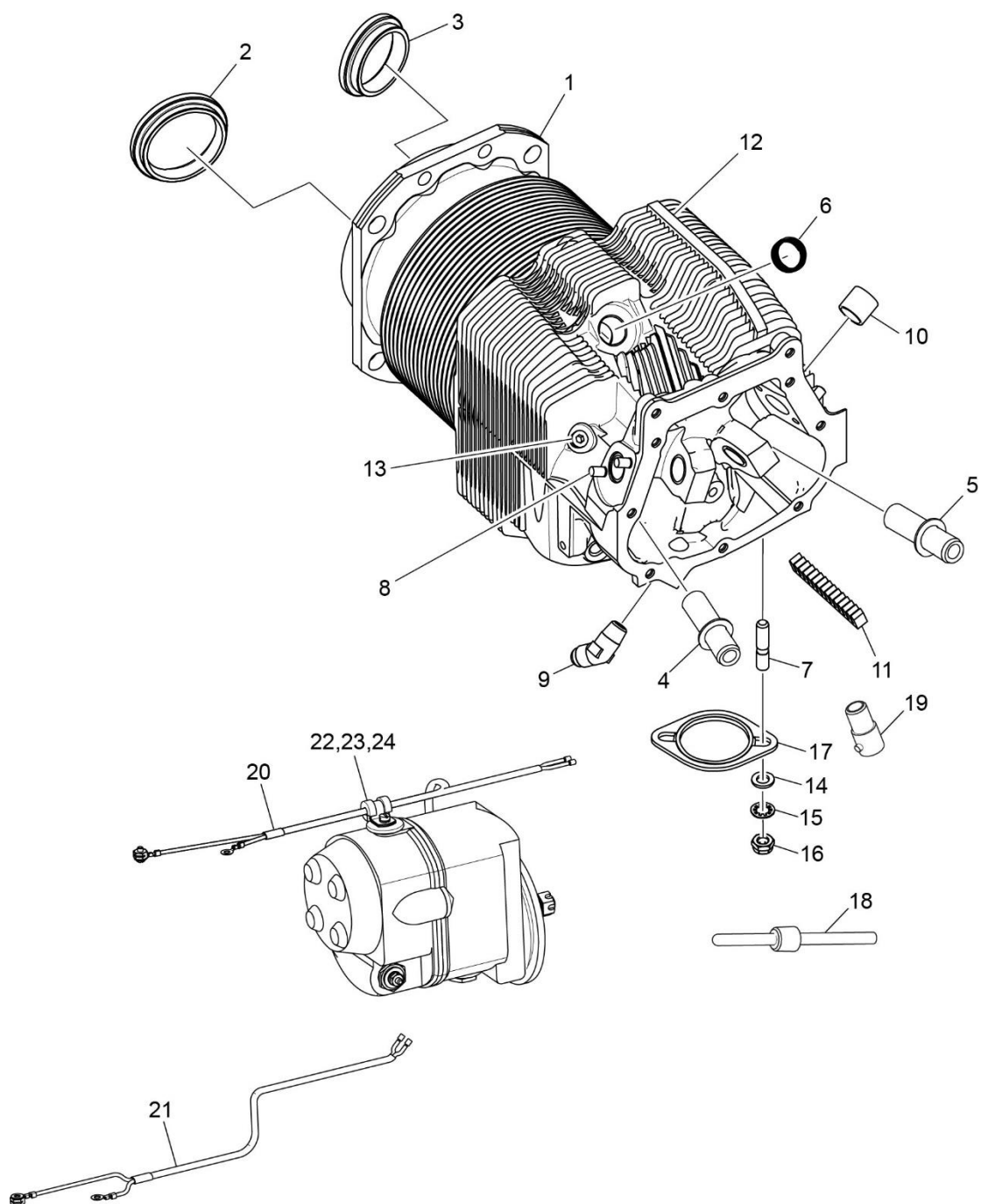


Figure 11
Cylinder Assembly

CYLINDER SECTION

Figure 11 - Cylinder Assembly

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		16A26081	CYLINDER AND HEAD ASSEMBLY, Nitrided	4	4	4	4
2		72212	SEAT, Intake valve	4	4	4	4
3		16T19468	SEAT, Valve, exhaust	4	4	4	4
4		66713-P05	GUIDE, Valve, intake	4	4	4	4
5		75838-P05	GUIDE, Valve, exhaust	4	4	4	4
6		69260	INSERT, Spark plug, 18-1.5 MM	8	8	8	8
7		31C-13	STUD, 5/16-18 x 1-5/8 long	8	8	8	8
8		25C-8	STUD, 1/4-20 x 1.00 long	16	16	16	16
9		MS20823-6D	ELBOW, 45°, 3/8 flared tube	4	4	4	4
10		66670	BUSHING, Rocker shaft, inner	16	16	16	16
11		72343	STABILIZER, Cylinder head fins, 15 teeth	4	4	4	4
12		72344	STABILIZER, Cylinder head fins, 26 teeth	4	4	4	4
13		1102	PLUG, 1/8-27 NPT, Allen head	4	4	4	4
14		STD-35	WASHER, 5/16 plain	8	8	8	8
15		STD-475	WASHER, 5/16 lock, internal teeth	8	8	8	8
16		STD-1410	NUT, 5/16-18 plain	8	8	8	8
17	*	75118	GASKET, Exhaust flange	8	8	8	8
	*	77611	GASKET, Exhaust flange		4		4
18		LW-18752	THERMOCOUPLE, K, cyl. head bayonet	4		4	4
19		AN4076-1	FITTING, Temp. measuring element	4		4	4
20		05U22561	THERMOCOUPLE, Installation, K type	2		2	2
21		LW-18756	WIRE ASSY, mag thermo (K-type)	2		2	2
22		LW-16266-0-19	CLAMP, Cushion 0.19 I.D.	2		2	2
23		STD-380	SCREW, No. 8-32 x 3/8 long dr	2		2	2
24		STD-250	WASHER, No. 8 spring lock	2		2	2
* This part is shipped loose with the engine.							

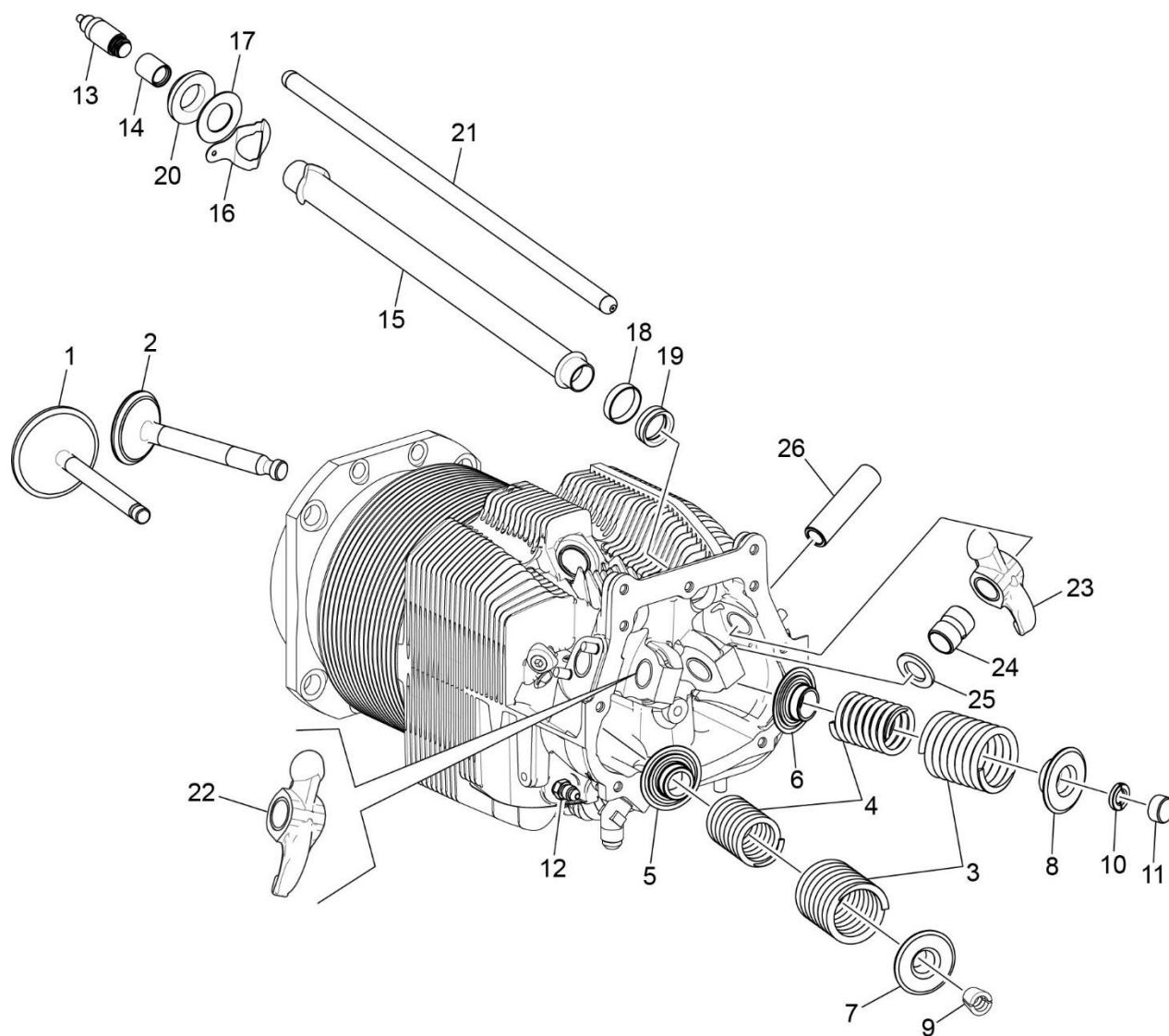


Figure 12
Valve Assembly and Related Parts

CYLINDER SECTION

Figure 12 - Valve Assembly and Related Parts

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		17A23946	VALVE, Intake	4	4	4	4
2		17B23935	VALVE, Exhaust	4	4	4	4
3		17D29056	SPRING, Valve, outer	8	8	8	8
4		17D29057	SPRING, Valve, inner	8	8	8	8
5		LW-13321	SEAT, Valve spring, lower intake	4	4	4	4
6		LW-13322	SEAT, Valve spring, lower exhaust	4	4	4	4
7		LW-10077	SEAT, Valve spring, upper intake	4	4	4	4
8		LW-16475	SEAT, Valve spring, upper exhaust	4	4	4	4
9		60009	KEY, Valve, intake	8	8	8	8
10		17C21191	KEY, Valve, exhaust	8	8	8	8
11		17C19386	CAP, Valve stem, exhaust	4	4	4	4
12		02G21382	NIPPLE, Nozzle pressure gauge				1
13		15B26066	PLUNGER ASSEMBLY, Hydraulic tappet	8	8	8	8
14		15B21319	SOCKET, Hydraulic tappet	8	8	8	8
15		15G23462	SHROUD TUBE ASSEMBLY, Push rod	8	8	8	8
16		15H21201	SPRING, Shroud tube	16	16	16	16
17		01L23459	WASHER, 3/4 I.D. x 1-3/8 O.D. x 1/32	8	8	8	8
18		61503	SLEEVE, Shroud tube	8	8	8	8
19		LW-18661	SEAL, Shroud tube	8	8	8	8
20		06A23493	SEAL, Shroud tube	8	8	8	8

(continued on next page)

CYLINDER SECTION
Figure 12 - Valve Assembly and Related Parts (Cont.)

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
21		15F28835-51	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28835-52	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28835-53	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28835-54	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28835-55	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28835-56	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-17	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-18	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-19	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-20	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-21	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
		15F28864-22	ROD ASSEMBLY, Push (A total of 8 required)	AR	AR	AR	AR
22	*	17F21188	ROCKER ASSEMBLY, Valve, intake	4	4	4	4
23	*	17F21187	ROCKER ASSEMBLY, Valve, exhaust	4	4	4	4
24		74389	BUSHING, Valve rocker	8	8	8	8
25		71549	WASHER, Thrust, valve rocker	8	8	8	8
26		72626	SHAFT, Valve rocker	8	8	8	8
AR – As Required							
* Due to the size of the area where the part number is stamped, the last five digits (19357) could be all that is shown of the part number.							

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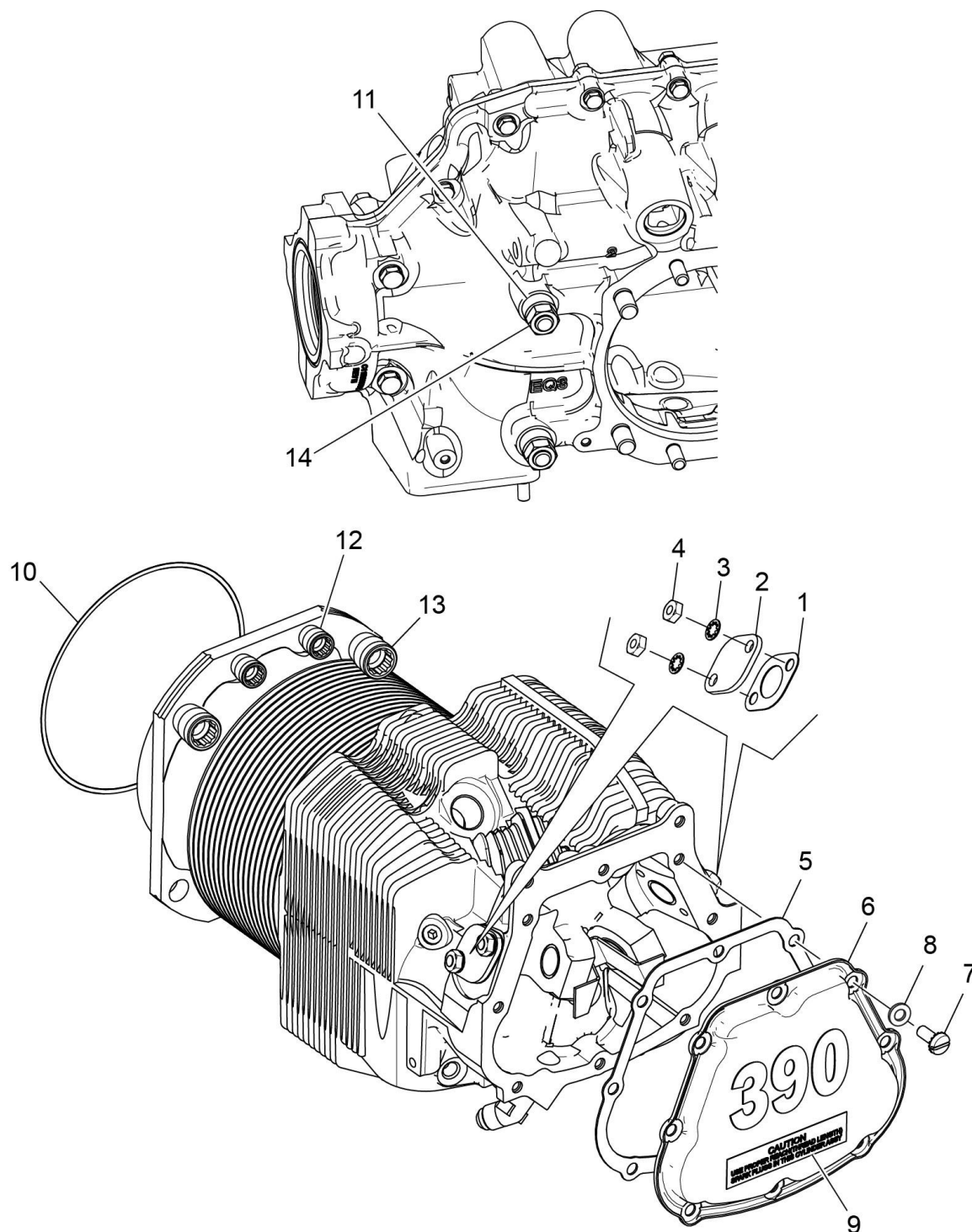


Figure 13
Cylinder Related Parts

CYLINDER SECTION**| Figure 13 - Cylinder Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		66732	GASKET, Valve rocker shaft cover	8	8	8	8
2		72710	COVER, Valve rocker shaft	8	8	8	8
3		STD-160	WASHER, 1/4 lock, internal teeth	16	16	16	16
4		STD-1411	NUT, 1/4-20 plain	16	16	16	16
5		67193	GASKET, Rocker box cover	4	4	4	4
		06B26811	GASKET, Rocker box cover (silicone)				4
6		17J26469	COVER ASSEMBLY, Rocker box	4	4	4	4
		17J26469-C	COVER ASSEMBLY, Rocker box			4	
7		STD-1925	SCREW, 1/4-20 x 5/8 long, pan hd., self-locking	32	32	32	32
		01F22880	SCREW, 1/4-20 X 0.595 LG.(stainless)			32	
8		MS35335-33	WASHER			32	
9		74494	PLATE, Spark plug reach caution	4	4	4	4
10		71481	RING, Oil seal, 3/32 diameter x 4-27/32 long	4	4	4	4
11		74887	SPACER, 33/64 I.D. x 7/8 O.D. x 3/8 thick	2	2	2	2
12		71134	NUT, 3/8-24 NF-3	16	16	16	16
13		71133	NUT, 1/2-20 NF-3	16	16	16	16
14		STD-2090	NUT, 1/2-20 plain	2	2	2	2

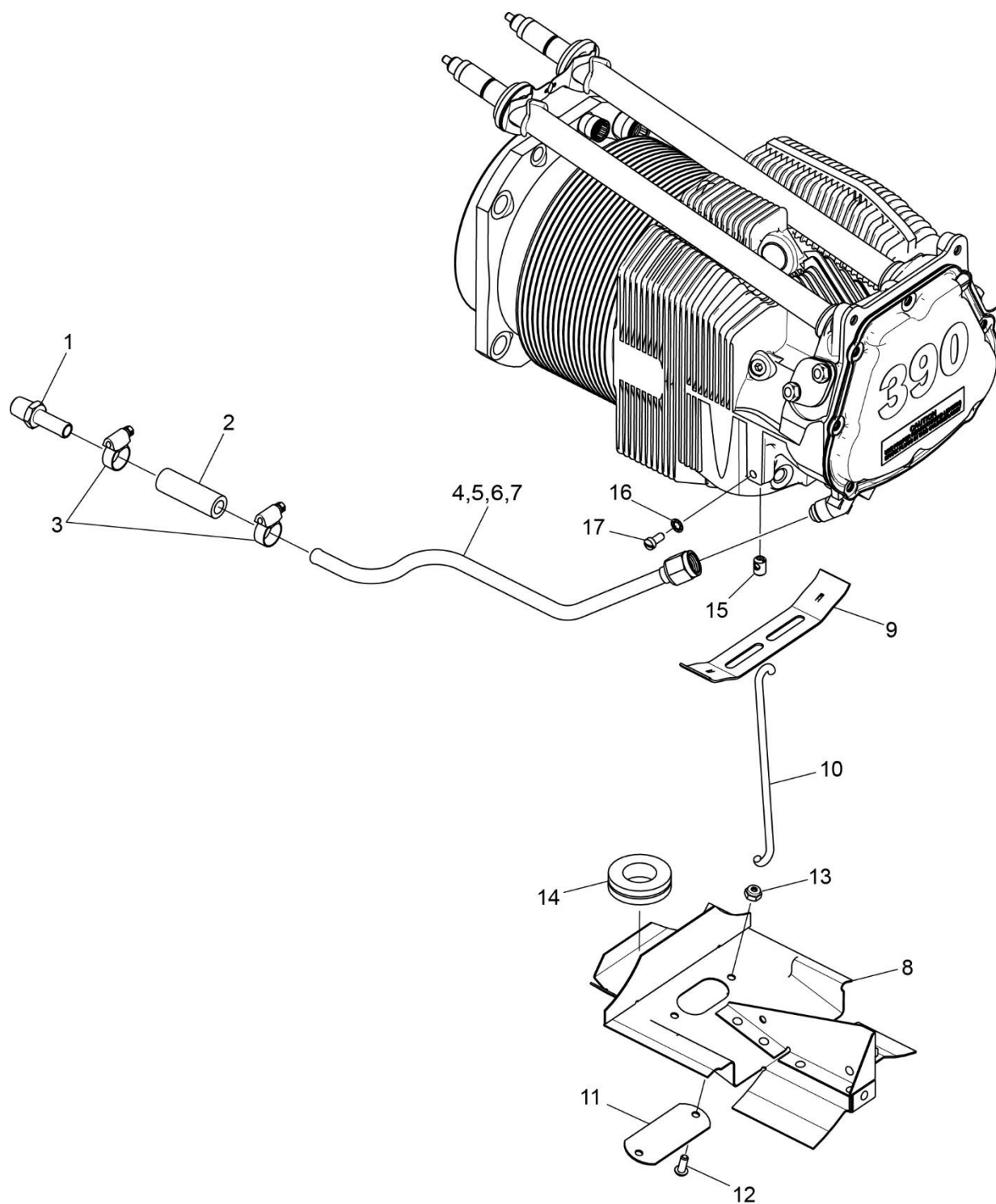


Figure 14
Cylinder Head Drain Tubes and Intercylinder Cooling Baffles

CYLINDER SECTION

| **Figure 14 - Cylinder Head Drain Tubes and Intercylinder Cooling Baffles**

Figure Item	Code	Part Number	Description	Units per Assembly
1		STD-684	NIPPLE, Straight, 3/8 I.D. hose	4
2		STD-2180	HOSE, 3/8 x 1-13/16 long	4
3	***	LW-15592-5-04	CLAMP, Hose, 7/16 O.D.	8
	***	LW-15592-5-05	CLAMP, Hose	8
4		72702	TUBE ASSEMBLY, Cyl. head oil drain, cyl. No. 1	1
5		72703	TUBE ASSEMBLY, Cyl. head oil drain, cyl. No. 2	1
6		74808	TUBE ASSEMBLY, Cyl. head oil drain, cyl. No. 3	1
7		73027	TUBE ASSEMBLY, Cyl. head oil drain, cyl. No. 4	1
8	*	75338	BAFFLE ASSEMBLY, Intercylinder	1
	**	75337	BAFFLE ASSEMBLY, Intercylinder	1
9		71611	RETAINER, Intercylinder baffle	2
10		17M23284	HOOK, Intercylinder baffle retainer	2
11		72834	COVER, Baffle ignition cable hole	2
12		STD-692	SCREW, No. 10-32 x 1/2 long, round head	4
13		STD-670	LOCK NUT, No. 10-32	4
14	**	MS35489-20X	GROMMET	1
15		65614	PLUG, Baffle attaching	4
16		STD-251	WASHER, No. 10, internal lock	4
17		STD-1686	SCREW, No. 10-32 x 7/16 long	4
* Install on left side cylinders No. 2 and 4 ** Install on right side between cylinders No. 1 and 3 *** Use only in complete sets of the same part number				

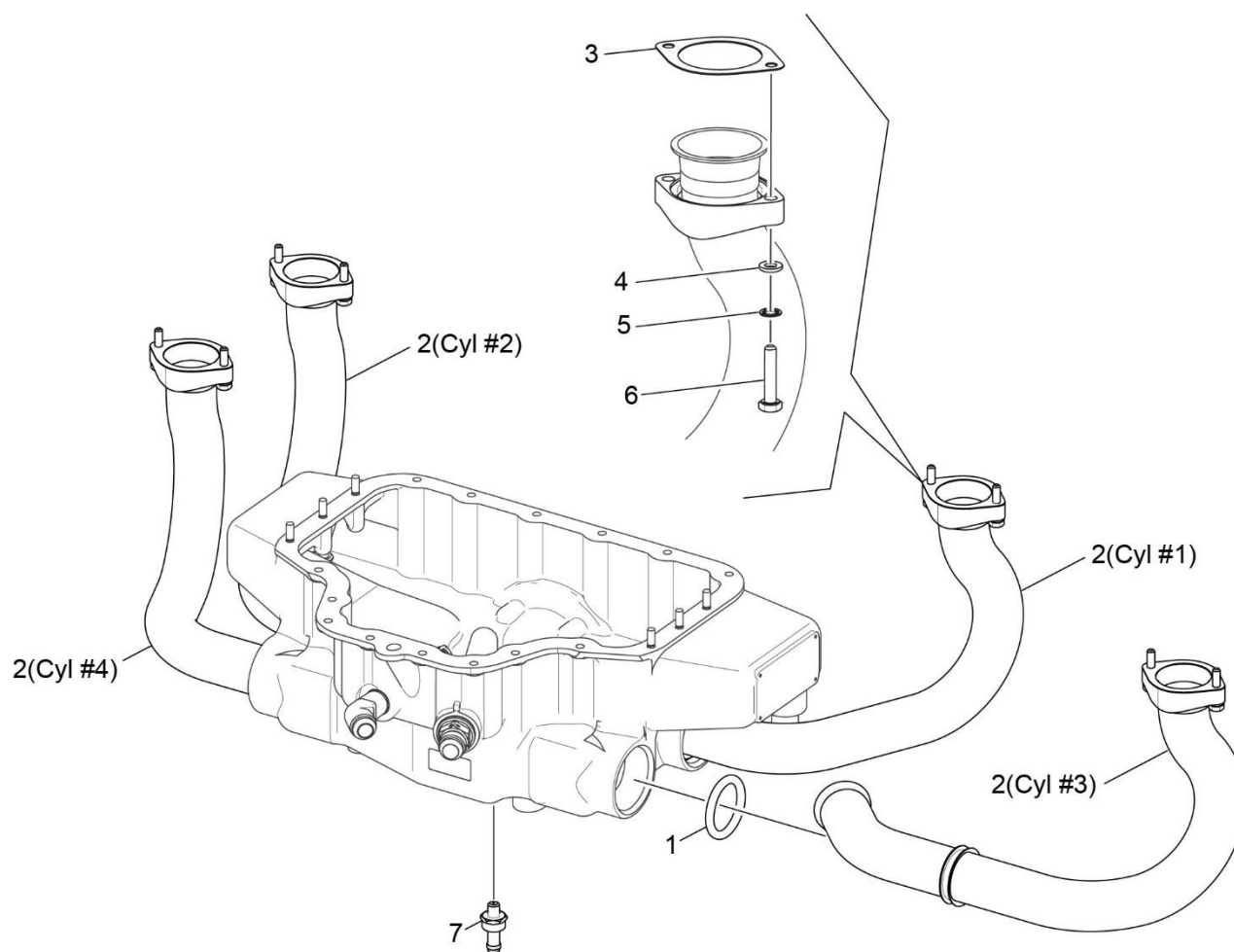


Figure 15
Intake Pipes Assembly

CYLINDER SECTION**| Figure 15 - Intake Pipes Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		77569	SEAL, Intake pipe	4
2		78741	PIPE, Intake, cylinder No. 1	1
		78742	PIPE, Intake, cylinder No. 2	1
		78743	PIPE, Intake, cylinder No. 3	1
		78744	PIPE, Intake, cylinder No. 4	1
3		71973	GASKET, 2 bolt flange, 1-3/4 I.D.	4
4		STD-8	WASHER, 1/4 plain	8
5		STD-160	WASHER, 1/4 lock, internal teeth	8
6		LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. head	8
7		75444	ADAPTER ASSEMBLY, Fuel drain valve	1

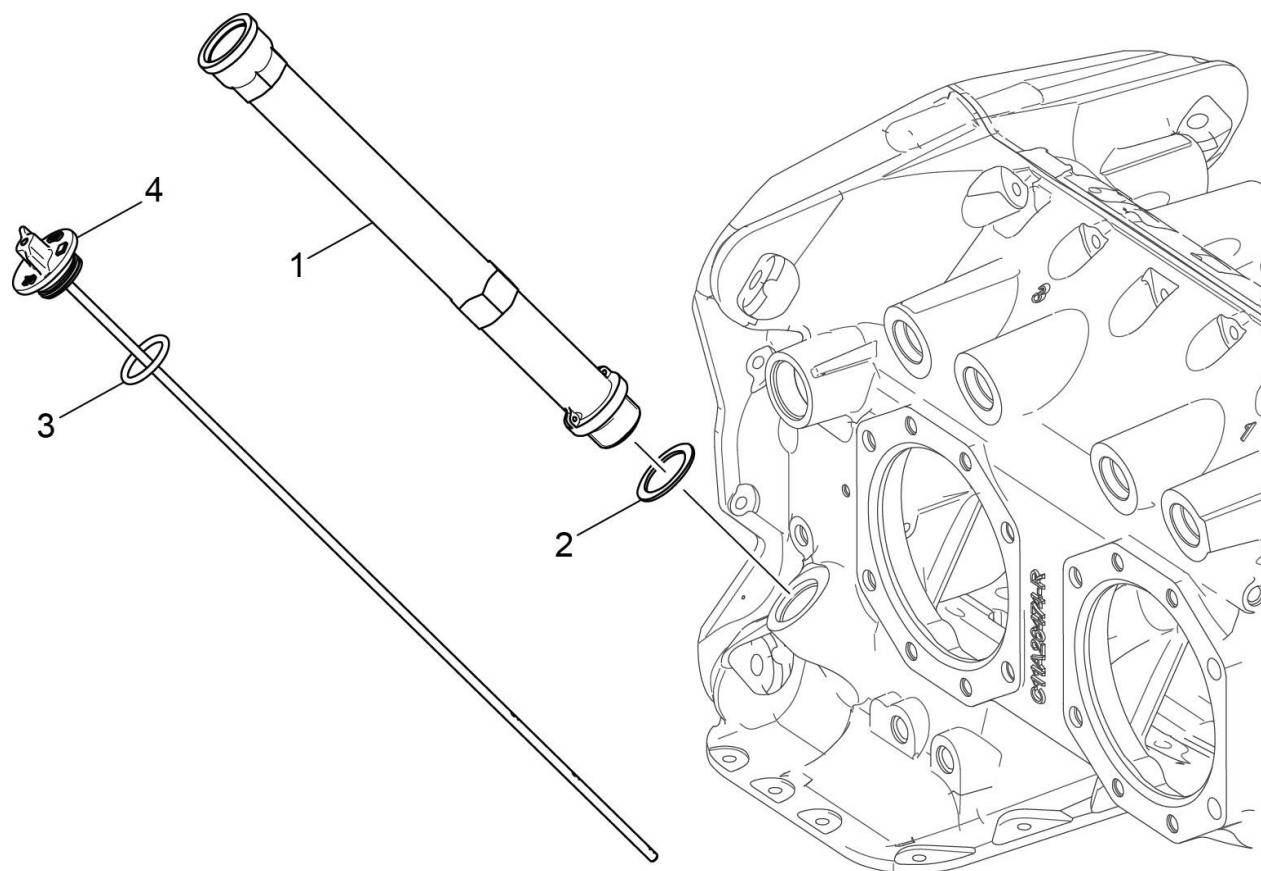


Figure 16
Oil Level Gage

LUBRICATION SYSTEM**| Figure 16 - Oil Level Gage**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		75736	TUBE, Oil level gage (Long 11.57 in.)	1	1	1	1
		56C23075	TUBE, Oil level gage (Long 15.08 in.)	1			1
2		72059	GASKET, Oil level gage	1	1	1	1
3		74068	RING, Oil level gage plug	1	1	1	1
		74065	RING, Oil level gage plug	1			1
4		LW-14760	GAGE ASSEMBLY, Oil level	1	1	1	1
		LW-14763	GAGE ASSEMBLY, Oil level	1			1

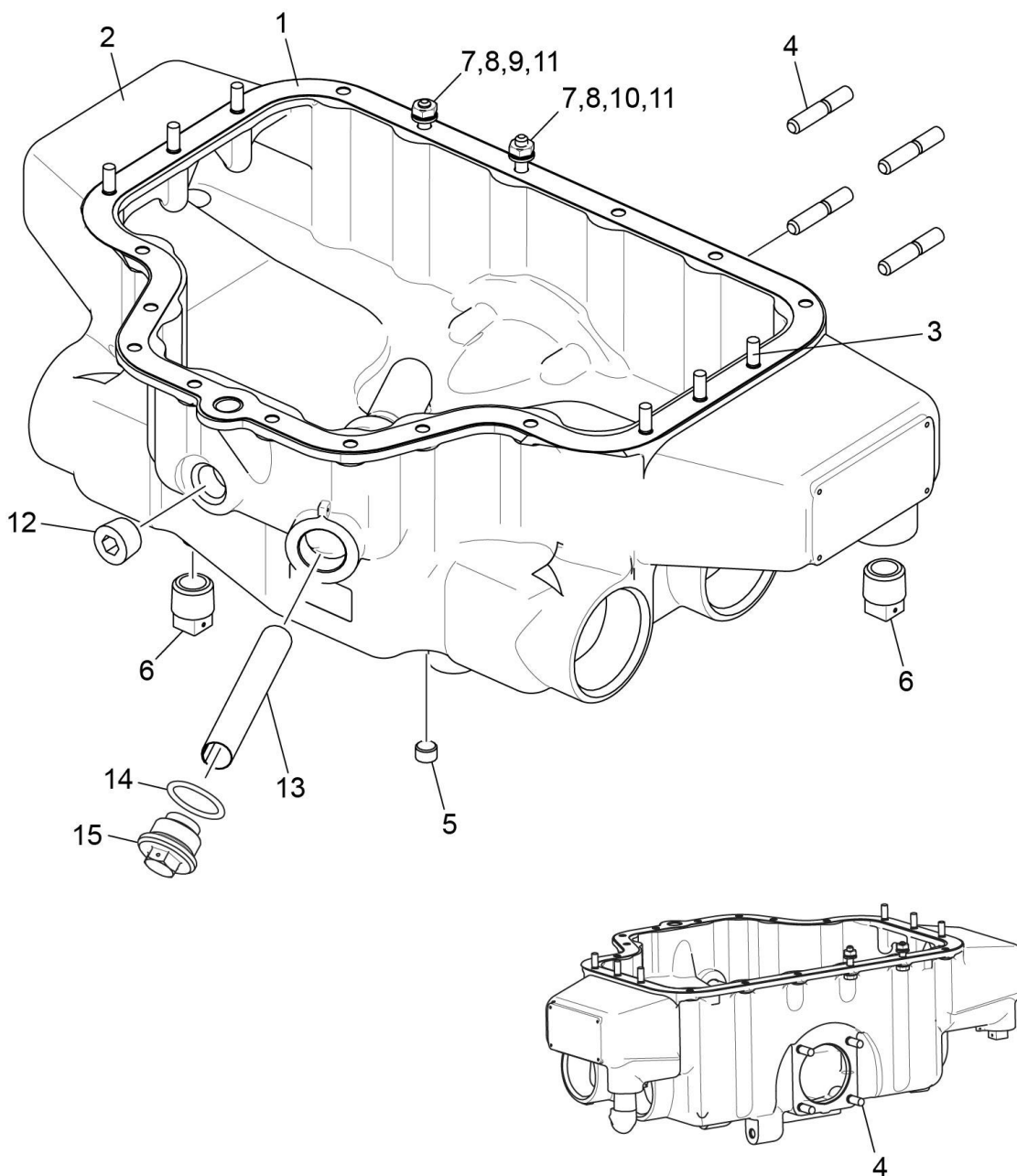


Figure 17
Oil Sump Assembly and Oil Suction Screen

LUBRICATION SYSTEM

| Figure 17 - Oil Sump Assembly and Oil Suction Screen

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		LW-13353	GASKET, Oil sump	1	1	1	1
2		LW-13864	SUMP ASSEMBLY, Oil	1	1	1	1
3		61400	STUD, 1/4-20 x 1-3/16 long	6	6	6	6
4		31C-14	STUD, 5/16-18 x 1-3/4 long	4	4	4	4
5		1102	PLUG, 1/8 pipe	1	1	1	1
6		STD-551	PLUG, 1/2-14 NPT, square head, drilled	2	2	2	2
7		STD-8	WASHER, 1/4 plain	26	26	26	26
8		STD-160	WASHER, 1/4 lock, internal teeth	20	20	20	20
9		LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head	12	12	12	12
10		LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	2	2	2	2
11		STD-1411	NUT, 1/4-20 plain	12	12	12	12
12		STD-2229	PLUG, 1/2 NPT, Allen head	1	1	1	1
13		70484	SCREEN, Oil suction	1	1	1	1
14		06E19769-1.00	GASKET, Annular, 1.00 I.D.	1	1	1	1
15		LW-12545	PLUG, 5/8 hex. head x 1.00-20 thread	1	1	1	1

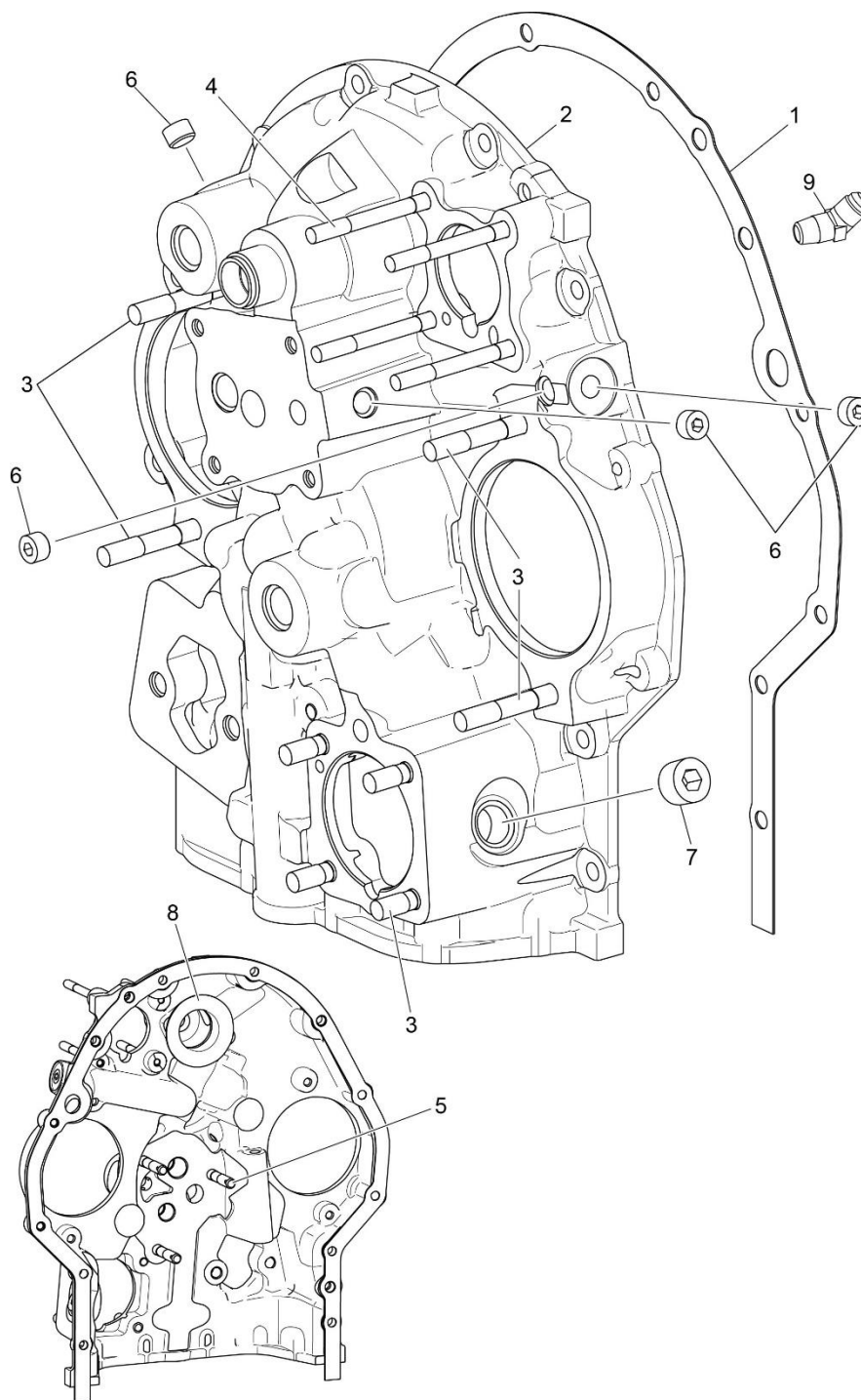


Figure 18
Accessory Housing Assembly

ACCESSORY DRIVES**| Figure 18 - Accessory Housing Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		73818	GASKET, Accessory housing	1	1	1	1
2		21A21533-30	HOUSING, ACCESSORY ASSEMBLY, Studding	1	1	1	1
		21A21533-26	HOUSING ASSEMBLY, Accessory studding		1		
		21A21533-27	HOUSING ASSEMBLY, Accessory studding	1			
		21A21533-33	HOUSING ASSEMBLY, Accessory studding				1
3		31C-12	STUD, 5/16-18 x 1-1/2 long	8	8	8	8
4		25C-22	STUD, 1/4-20 x 2-3/4 long	4	4	4	4
		25C-12	STUD, 1/4-20 x 1-1/2 long		4		
		61400	STUD, 1/4-20 x 1-3/16 long				4
5		31CD-17	STUD, 5/16-18 x 2-1/8 long drilled	3	3	3	3
6		1102	PLUG, 1/8 pipe	4	4	4	4
7		STD-784	PLUG, 3/8-18 NPT, Allen head	1	1	1	1
8		76119	SHIELD, Accessory breather oil	1	1	1	1
9		MS20823-4	ELBOW, 1/8 NPT to 1/4 flared tube				1

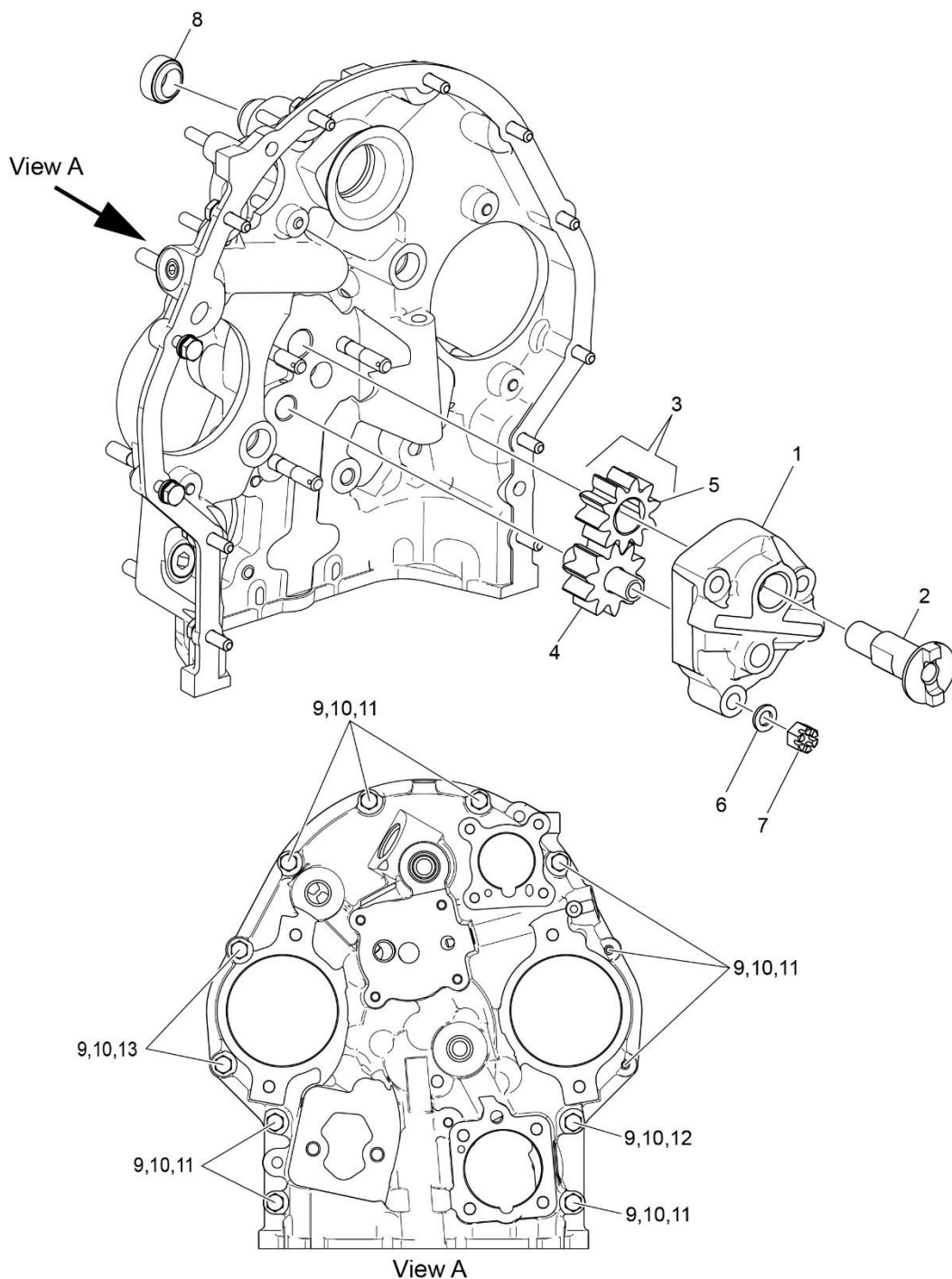


Figure 19
Oil Pump Assembly and Accessory Housing Attaching Parts

ACCESSORY DRIVES**| Figure 19 - Oil Pump Assembly and Accessory Housing Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		78531	BODY ASSEMBLY, Oil pump	1
2		61174	SHAFT, Oil pump drive	1
3		05K19423-S	IMPELLER KIT	1
4		LW-18110	IMPELLER ASSEMBLY, Oil pump driven	1
5		LW-18109	IMPELLER, Oil pump driven	1
6		STD-35	WASHER, 5/16 plain	3
7		STD-1420	NUT, 5/16-18 slotted	3
8		LW-14260	SEAL, Tachometer drive, oil	1
9		STD-8	WASHER, 1/4 plain	12
10		STD-160	WASHER, 1/4 lock, internal teeth	12
11		LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head	9
12		LW-25-1.13	BOLT, 1/4-20 x 1-1/8 long, hex. head	1
13		LW-25-1.44	BOLT, 1/4-20 x 1-7/16 long, hex. head	2

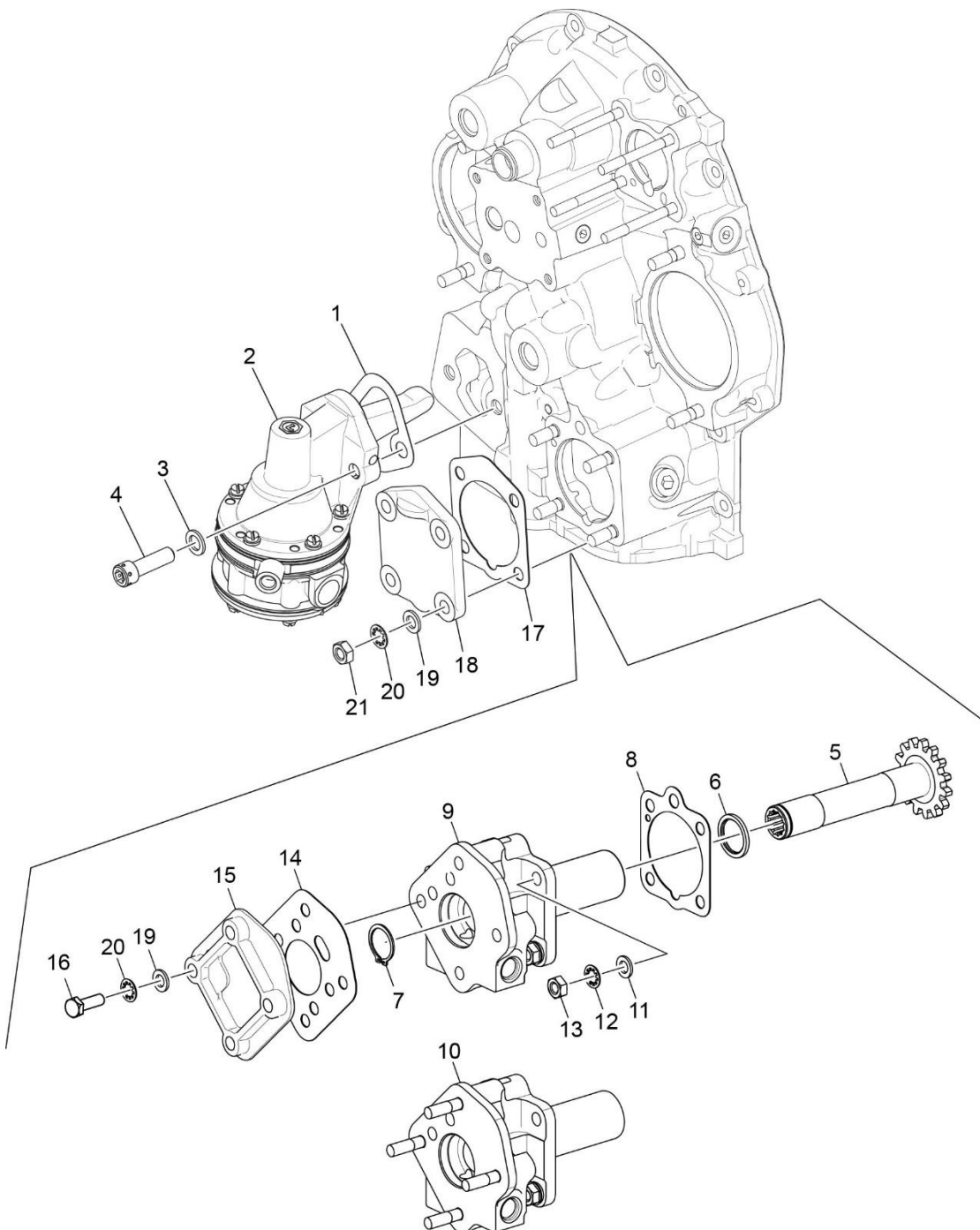


Figure 20
Fuel Pump, Propeller Governor Drive Adapter and Cover

ACCESSORY DRIVES

| **Figure 20 - Fuel Pump, Propeller Governor Drive Adapter and Cover**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		60096	GASKET, Fuel pump	1	1	1	1
2		62B26931	FUEL PUMP, High Pressure	1	1	1	1
3		STD-33	WASHER, 3/8 plain	2	2	2	2
4		STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket head, drilled	2	2	2	2
5		68317	SHAFTGEAR, Propeller Governor Drive	1	1		
6		71596	WASHER, Accessory drive gear	1	1		
7		STD-1221	RING, 13/16 diameter x 1/32 thick	1	1		
8		68315	GASKET, Accessory drive adapter	1	1		
9		78594 ▲	ADAPTER ASSY., Propeller gov. drive	1	1		
10		75153 ■	ADAPTER ASSY., Propeller gov. drive (with studs)	1	1		
		20D28263 ♦	ADAPTER ASSY., Propeller gov. drive (with studs)		1		
11		STD-35	WASHER, 5/16 plain	4	4		
12		STD-475	WASHER, 5/16 lock, internal teeth	4	4		
13		STD-1410	NUT, 5/16-18 plain	4	4		
14		72053	GASKET, Governor	1	1		
15		72378	COVER, Governor drive	1	1		
16		LW-31H1.22	BOLT, 5/16-18 x 1.22 long	1	1		
17		69551	GASKET, Governor			1	1
18		69106	COVER, Governor			1	1
19		STD-35	WASHER, 5/16 plain	4	4	4	4
20		STD-475	WASHER, 5/16 lock, internal teeth	4	4	4	4
21		STD-1410	NUT, 5/16-18 plain	4	4	4	4
■ Woodward governor ▲ "AN" governor ♦ Hartzell S-4-5							

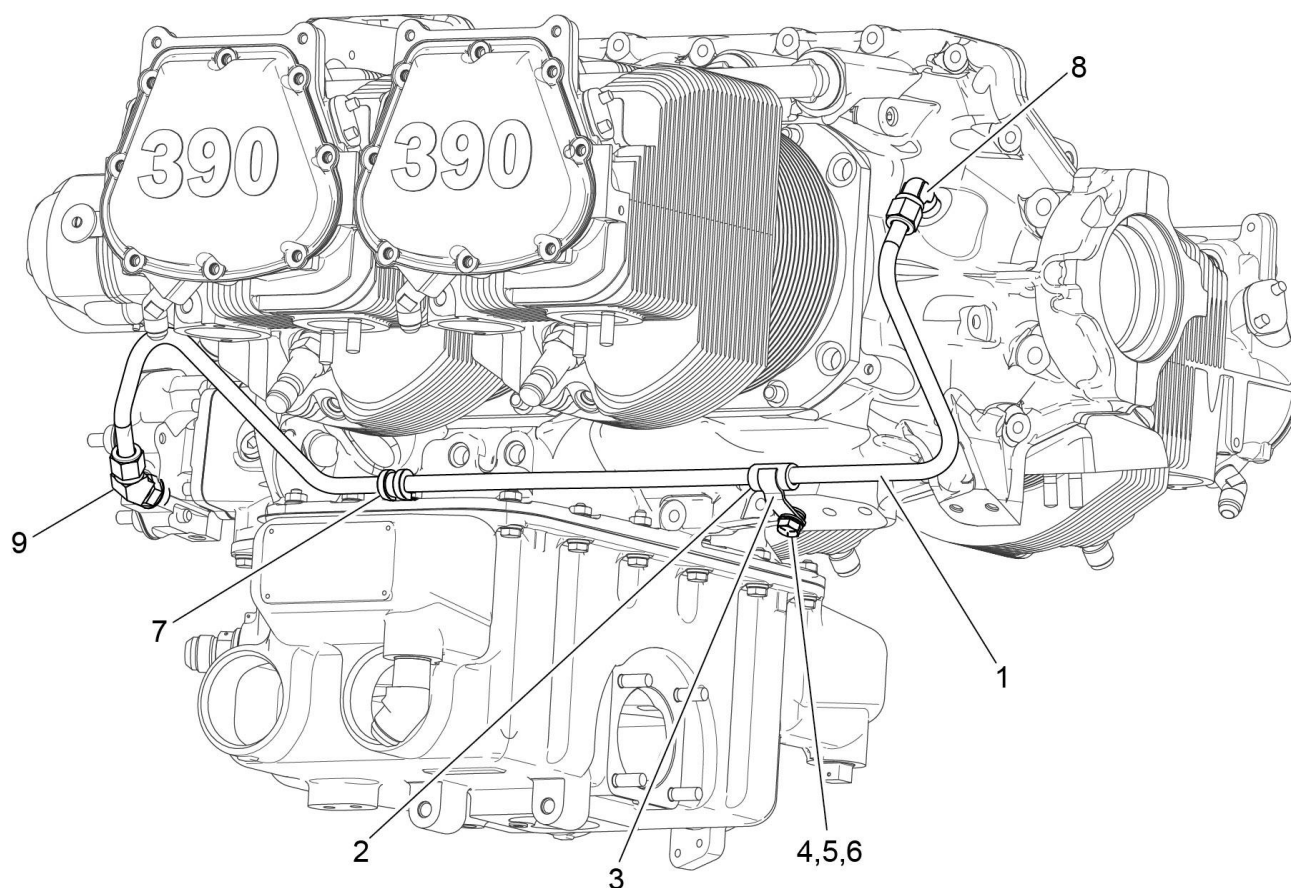


Figure 21
Propeller Governor Oil Line Tube Assembly and Attaching Parts

ACCESSORY DRIVES

Figure 21 - Propeller Governor Oil Line Tube Assembly and Attaching Parts

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		75167	TUBE ASSEMBLY, Propeller governor oil	1			
		75730	TUBE ASSEMBLY, Propeller governor oil		1		
2		STD-1930	HOSE, 3/8 I.D. x 1.00 long	1	1		
3		75165	CLIP, Propeller governor oil line support	1	1		
4		STD-35	WASHER, 5/16 plain	3	3		
5		STD-475	WASHER, 5/16 lock, internal teeth	1	1		
6		LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex. head	1	1		
7		LW-16266-25-	CLAMP, 3/8 I.D. x 1/4 diameter screw	1	1		
8		MS20822-6	ELBOW, 1/4 NPT to 3/8 flared tube, 90°	1	1		
9		74070	ELBOW, 3/8 flared tube and 9/16-18	1	1		

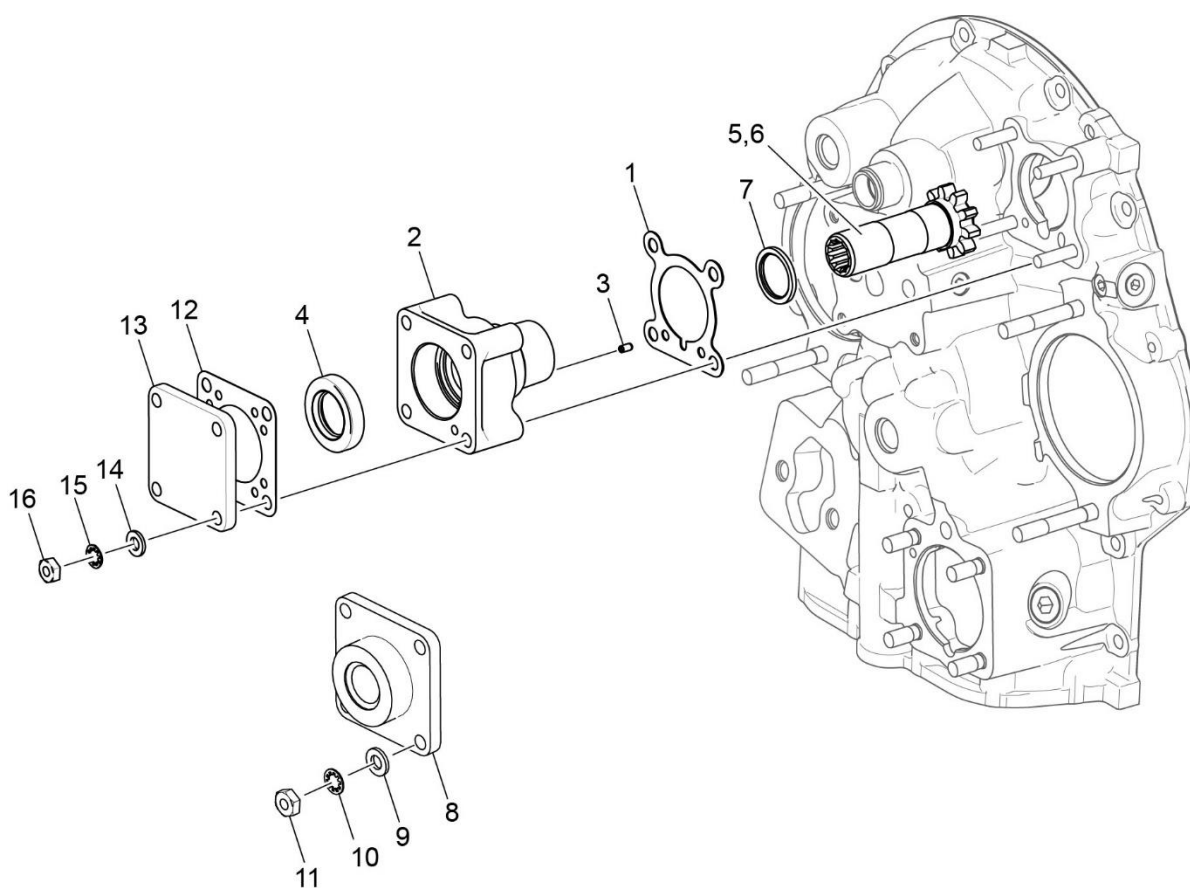


Figure 22
Vacuum Pump Drive and Cover

ACCESSORY DRIVES**| Figure 22 - Vacuum Pump Drive and Cover**

Figure Item	Code	Part Number	Description	Units per Assembly
1		61183	GASKET, Accessory adapter	1
2		61098	ADAPTER ASSEMBLY, Vacuum pump	1
3		STD-1774	PIN, 1/8 diameter x 1/4 long	1
4		06A19956	OIL SEAL, 7/8 I.D. x 1-1/2 O.D. x 5/16	1
5		72970	GEAR ASSEMBLY, Vacuum pump driven	1
6		72962	THRUST BUTTON, Vacuum pump gear	1
7		71596	WASHER, Accessory drive gear	1
8		8313	GASKET, Vacuum pump	1
9		60430	COVER, Vacuum pump	1
10		STD-8	WASHER, 1/4 plain	4
11		STD-160	WASHER, 1/4 lock, internal teeth	4
12		STD-1411	NUT, 1/4-20 plain	4

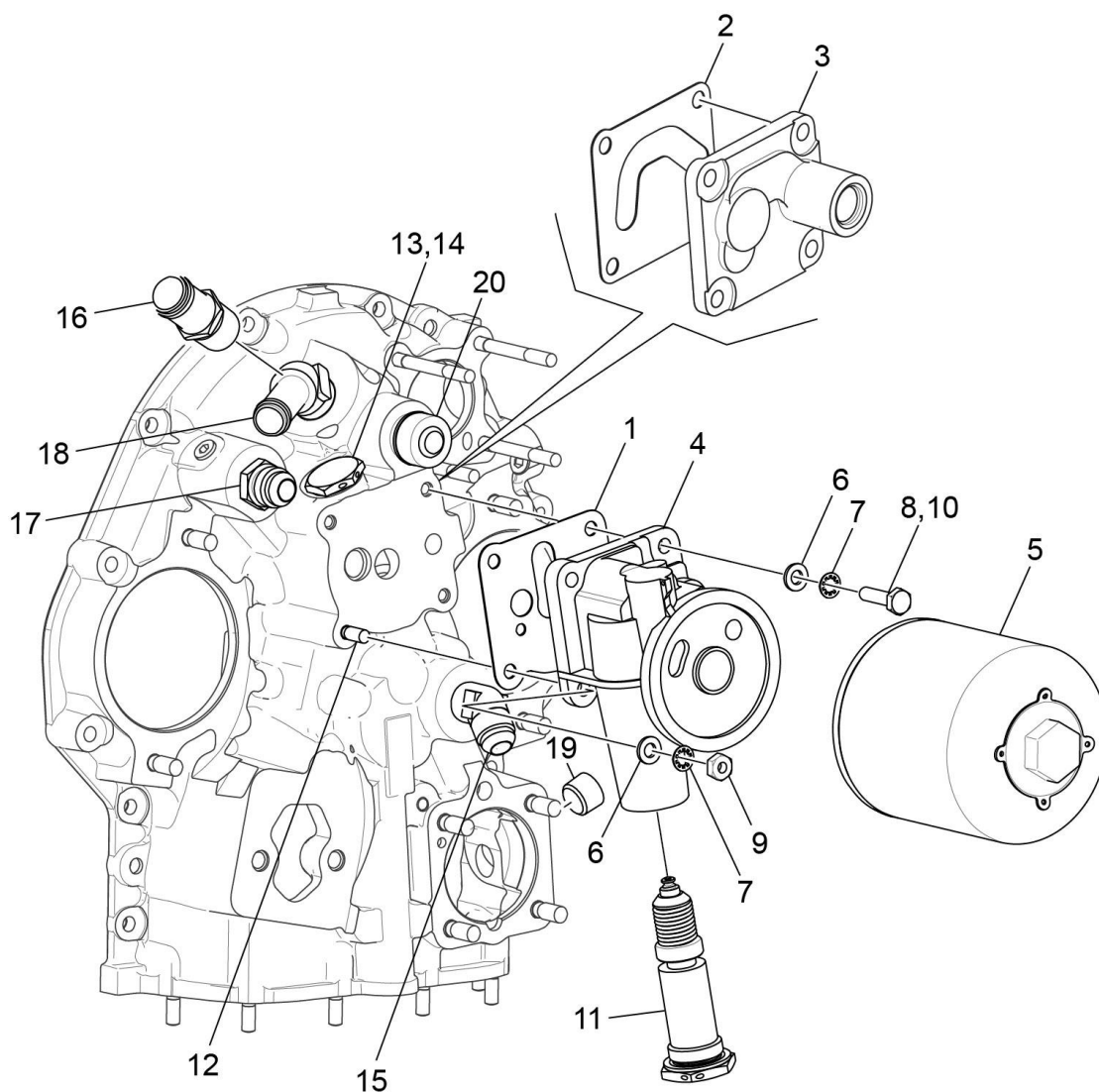


Figure 23
Oil Filter Assembly, Oil Cooler Bypass Valve, and Fittings

ACCESSORY DRIVES

| **Figure 23 - Oil Filter Assembly, Oil Cooler Bypass Valve, and Fittings**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1	*	06B23862	GASKET, Oil filter adapter	2	2	2	2
2		06B21644	GASKET, Oil filter base cover (Remote Filter)			1	
3		21M23736	COVER, Oil filter base (Remote Filter)			1	
4		77852	OIL FILTER BASE ASSEMBLY	1	1	1	1
5		LW-13215	OIL FILTER, Short, CH48110-1	1	1	1	1
6		STD-8	WASHER, 1/4 plain	4	4	4	4
7		STD-160	WASHER, 1/4 lock, internal teeth	4	4	4	4
8		LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head			3	
9		STD-1411	NUT, 1/4-20 plain	1	1	1	1
10		LW-25-1.00	BOLT, 1/4-20 x 1.00 long, hex. head	3	3	3	3
		LW-25H-1.00	BOLT, Drilled hex head, 1/4-20 x 1.00 long			1	
11		53E22144	VALVE ASSEMBLY, Temp. control, oil cooler bypass	1	1	1	1
12		25C-10	STUD, 1/4-20 x 1-1/4 long	1	1	1	1
13		06E19769-0.63	GASKET, Annular, 5/8 I.D.	1	1	1	1
14		62417	PLUG, Oil cooler bypass	1	1	1	1
15		MS20823-8	ELBOW, 3/8 NPT, 1/2 flared tube	1	1	1	1
16		71140	FITTING, Breather	1		1	1
17		AN816-8	NIPPLE, 1/2 flared tube	1	1	1	1
18		AN844-10D	ELBOW, Pipe	1	1		
19		62732	CAP, Tachometer drive	1	1	1	1
* One of the oil filter adapter gaskets P/N 06B23862 is shipped loose with the engine.							

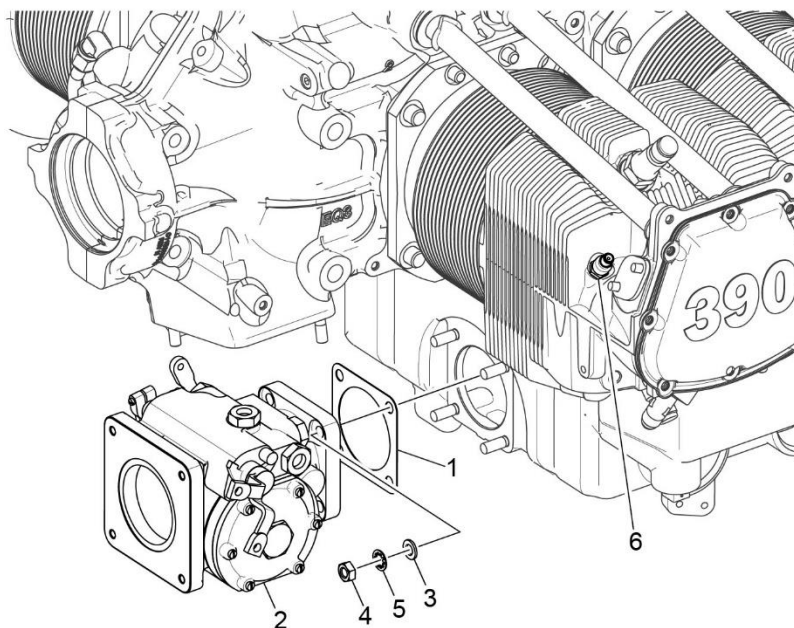
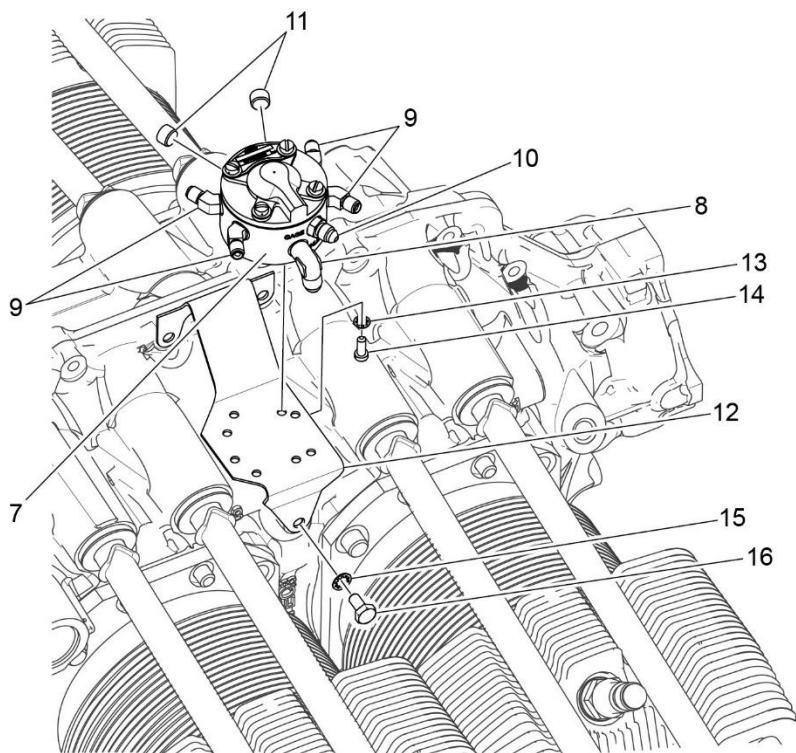


Figure 24A
Fuel Injector, Fuel Manifold Assembly, and Brackets

FUEL DISTRIBUTION**Figure 24A - Fuel Injector, Fuel Manifold Assembly, and Brackets**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		66224	GASKET, Carburetor	1	1	1	1
2		61J26426	FUEL INJECTOR, LFR-NNSS5 AV 2524054-11	1	1	1	1
3		STD-35	WASHER, 5/16 plain	4	4	4	4
4		STD-1410	NUT, 5/16-18 plain	4	4	4	4
5		STD-475	WASHER, 5/16 lock, internal teeth	4	4	4	4
6		63C26450	NOZZLE, Injection, low, AV 2524864-2	4	4	4	4
7		63B26702	MANIFOLD ASSEMBLY	1		1	1
		63B26724	MANIFOLD ASSEMBLY		1		
8		MS20822-4	ELBOW, 1/8 NPT to 1/4 tube, 90°	1	1	1	1
9		AN791-2	ELBOW, Union 45°, 1/8 tube	4	4	4	4
10		02G21382	NIPPLE, Nozzle pressure gauge	1	1/0	1	1
11		1102	PLUG, 1/8 pipe	2	2/3	2	2
12		75009	BRACKET, Fuel manifold	1	1	1	1
13		STD-251	WASHER, No. 10, internal lock	4	4	4	4
14		STD-82	SCREW, No. 10-24 x 1/2 long, fill. head	4	4	4	4
15		STD-160	WASHER, 1/4 lock, internal teeth	1	1	1	1
16		LW-25-0.50	BOLT, 1/4-20 x 1/2 long, hex. head	1	1	1	1

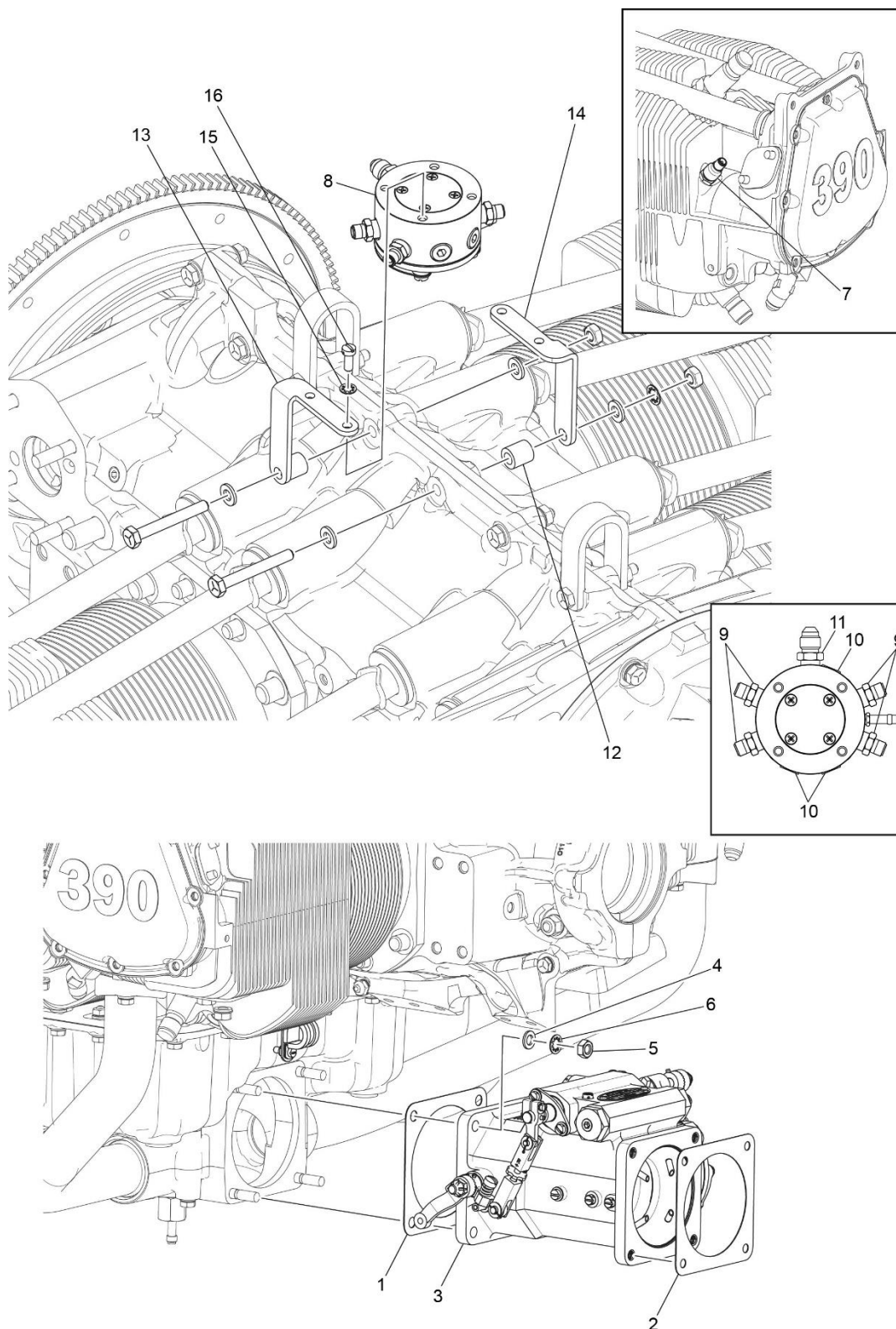


Figure 24B
Fuel Injector, Fuel Manifold Assembly, and Brackets

FUEL DISTRIBUTION**Figure 24B - Fuel Injector, Fuel Manifold Assembly, and Brackets**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		66224	GASKET, Carburetor				1
2		77504	GASKET, Fuel injector				1
3		61J28175	FUEL INJECTOR, LFR-NNSS5 AV2581000				1
4		STD-35	WASHER, 5/16 plain				4
5		STD-1410	NUT, 5/16-18 plain				4
6		STD-475	WASHER, 5/16 lock, internal teeth				4
7		63C26450	NOZZLE, Injection, low, AV 2524864-2				4
8		63B8207	MANIFOLD ASSY, Fuel				1
9		STD-148	NIPPLE, Union,-.1/8 NPT				4
10		1102	PLUG, 1/8 pipe				3
11		AN816-4	NIPPLE, 1/8 NPT to 1/4 tube				1
12		73966	SPACER, Fuel manifold bracket				2
13		07A22995	BRACKET, Fuel manifold				1
14		07A22996	BRACKET, Fuel manifold				1
15		STD-251	WASHER, No. 10 inter				4
16		STD-82	SCREW, No. 10-24				4

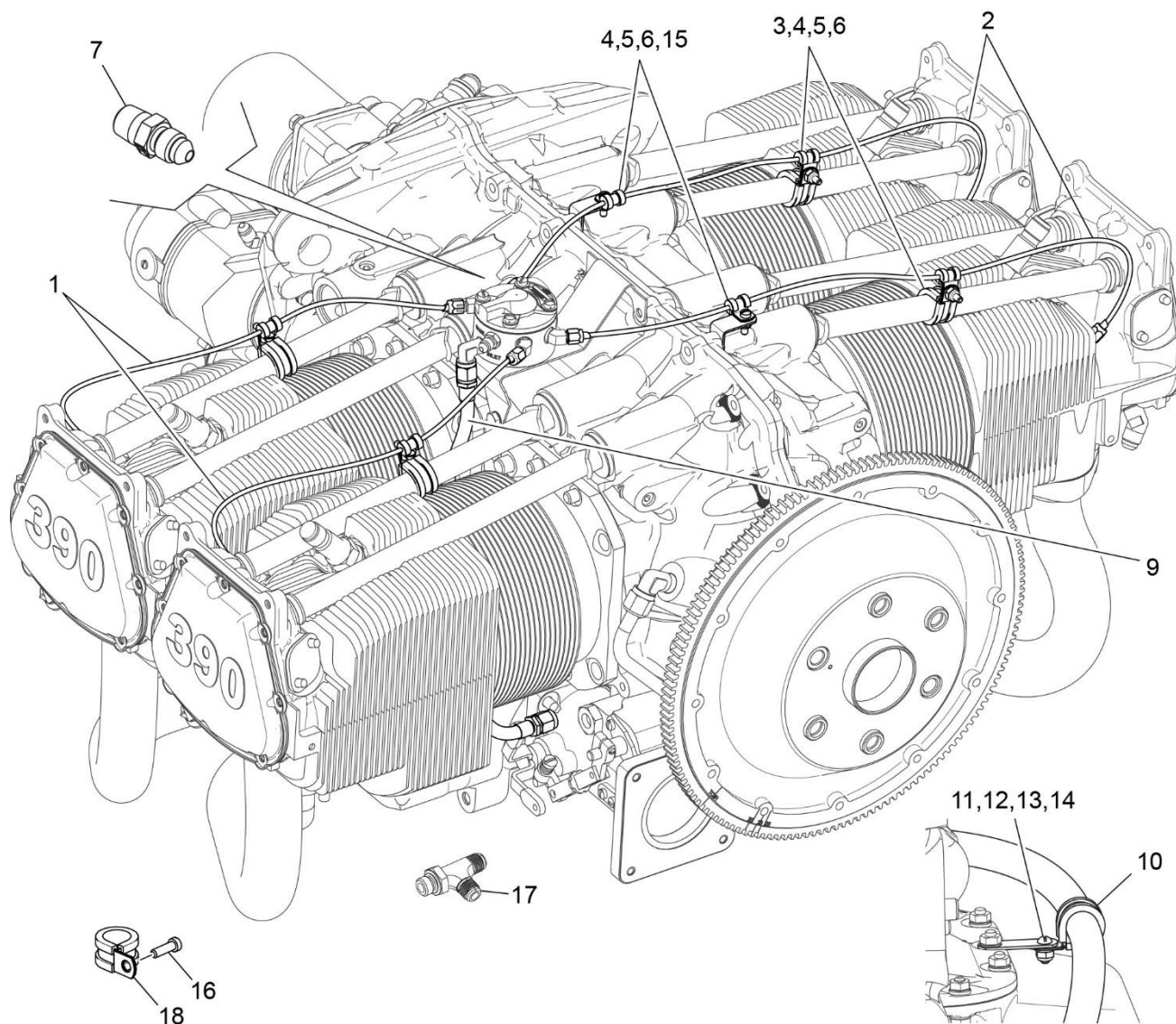


Figure 25A
Fuel Lines, Fuel Hoses, and Attaching Parts

FUEL DISTRIBUTION**Figure 25A - Fuel Lines, Fuel Hoses, and Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		LW-12098-0-140	TUBE ASSEMBLY, Fuel	2	2	2	2
2		LW-12098-0-210	TUBE ASSEMBLY, Fuel injector line	2	2	2	2
3		LW-16266-10-75	CLAMP	4	4	4	4
4		LW-16266-10-13	CLAMP, 1/8 diameter for No.10 screw	6	6	6	6
5		STD-860	SCREW, No. 10-32 x 5/8 long, fill. head	6	6	6	6
6		STD-670	LOCK NUT, No. 10-32	6	6	6	6
7		LW-16562	NIPPLE, 3/8 flared tube, 9/16-18	1	1	1	1
8		LW-12799-6S254	HOSE ASSEMBLY, 3/8 hose, straight	1	1	1	1
9		LW-12798-4S172	HOSE ASSEMBLY, 1/4 hose, straight	1	1	1	1
10		LW-16266-10-75	CLAMP	1	1	1	1
11		73152	BRACKET, Support clamp	1	1	1	1
12		STD-692	SCREW, No. 10-32 x 1/2 long, round head	1	1	1	1
13		STD-425	WASHER, No. 10 plain	1	1	1	1
14		STD-670	LOCK NUT, No. 10-32	1	1	1	1
15		73136	BRACKET, Extension, fuel injector	2	2	2	2
16		STD-860	SCREW, No. 10-32 x 5/8 long, fill. head			1	
17		76355	TEE, 3/8 tube with 9/16 thread			1	
18		LW-16266-25-75	CLAMP, 3/4 I.D. x 1/4 dia. screw			1	

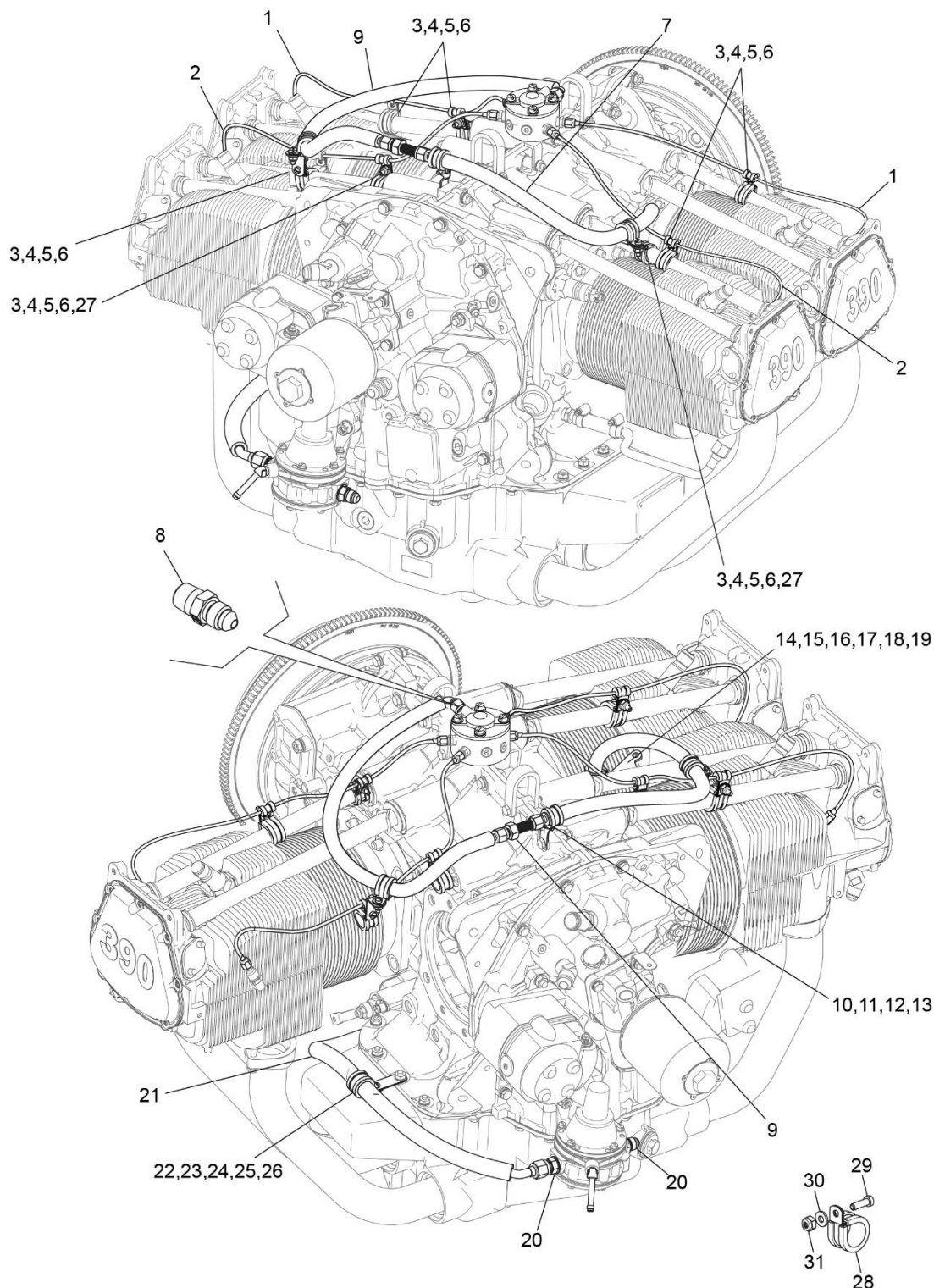


Figure 25B
Fuel Lines, Fuel Hoses, and Attaching Parts

FUEL DISTRIBUTION**Figure 25B - Fuel Lines, Fuel Hoses, and Attaching Parts**

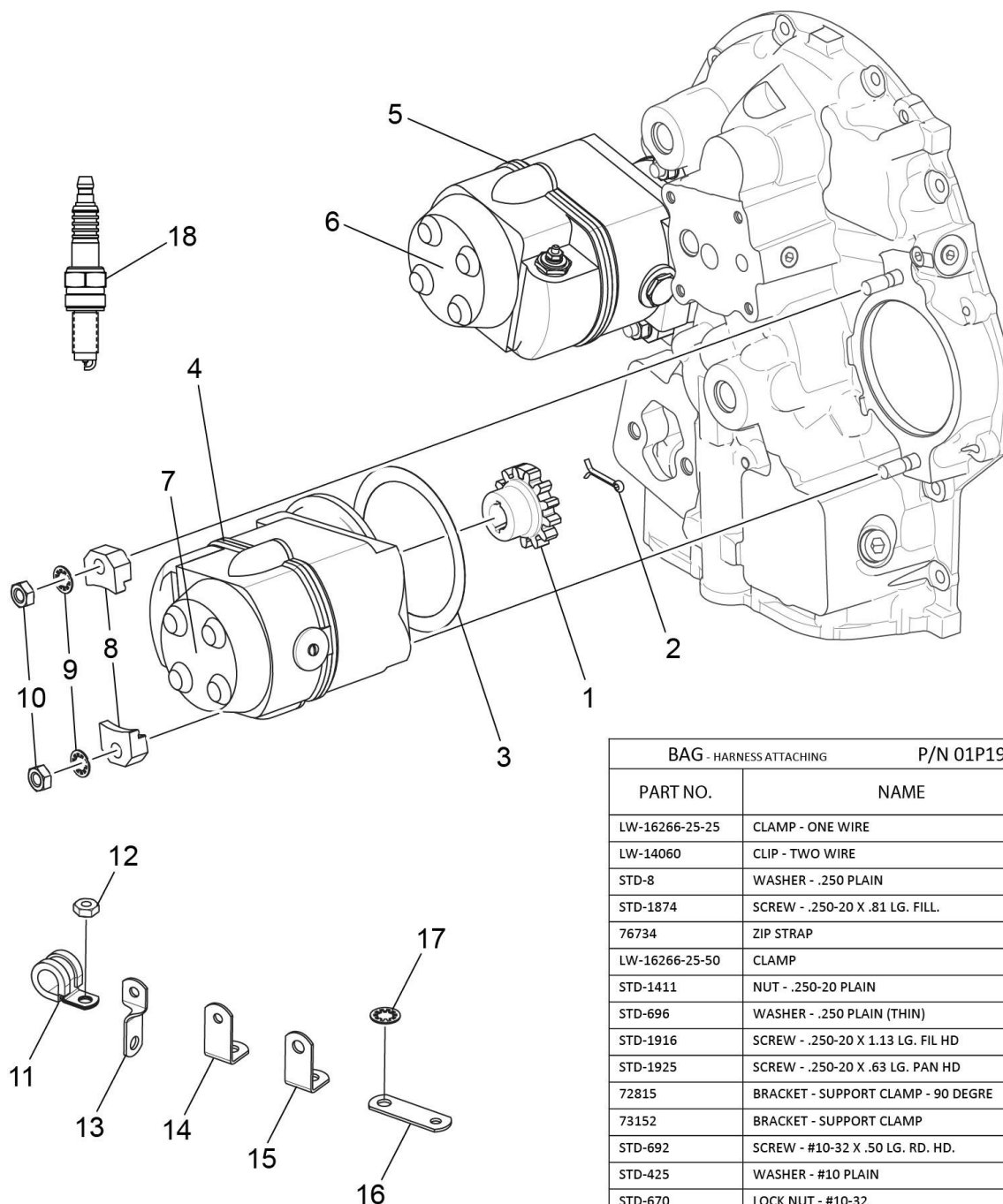
Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		LW-12098-0-170	TUBE ASSEMBLY, Fuel				2
2		LW-12098-0-190	TUBE ASSEMBLY, Fuel				2
3		LW-16266-10-75	CLAMP, 3/4 ID X #10 SCREW				8
4		LW-16266-10-13	CLAMP, 1/8 diameter for No.10 screw				8
5		STD-860	SCREW, No. 10-32 x 5/8 long, fill. head				8
6		STD-670	LOCK NUT, No. 10-32				8
7		02M22637-4S300	HOSE ASSEMBLY				1
8		AN815-4	UNION, 1/4 fl tube				1
9		02M28686-4S205	HOSE ASSEMBLY, Teflon 1/4 hose - 90 degree elbow with straight fitting - 20.625 length				1
10		72815	BRACKET, Support				1
11		STD-860	SCREW, #10-32 x 5/8 Lg.-fill. hd				1
12		STD-670	LOCK NUT, No. 10-32				1
13		LW-16266-10-63	CLAMP, 5/8 I.D. x No. 10 screw				1
14		07A28507	BRACKET ASSY, Fuel line support				1
15		STD-670	LOCK NUT, No. 10-32				1
16		STD-692	SCREW, No. 10-32 x 1/2 long, round head				2
17		STD-425	WASHER, No. 10 plain				3
18		STD-860	SCREW, No. 10-32 x 5/8 long, fill. head				1
19		LW-16266-10-63	CLAMP				1
20		LW-16562	NIPPLE, 3/8 flared tube, 9/16-18				2
21		02M22792-6S221	HOSE ASSEMBLY				1
22		LW-16266-10-75	CLAMP, 3/4 ID X #10 screw				1
23		73152	BRACKET, Support clamp				1
24		STD-692	SCREW, No. 10-32 x 1/2 long, round head				1
25		STD-425	WASHER, No. 10 plain				1

(continued on next page)

FUEL DISTRIBUTION**Figure 25B - Fuel Lines, Fuel Hoses, and Attaching Parts (Cont.)**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
26		STD-670	LOCK NUT, No. 10-32				1
27		73136	BRACKET, Extension, fuel injector				2
28		LW-16266-10-63	CLAMP, 5/8 I.D. x No. 10 screw				2
29		STD-860	SCREW, #10-32 x 5/8 Lg.-fill. hd				2
30		STD-425	WASHER, No. 10 plain				2
31		STD-670	LOCK NUT, No. 10-32				2

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BAG - HARNESS ATTACHING		P/N 01P19762-2-7
PART NO.	NAME	QTY.
LW-16266-25-25	CLAMP - ONE WIRE	4
LW-14060	CLIP - TWO WIRE	4
STD-8	WASHER - .250 PLAIN	8
STD-1874	SCREW - .250-20 X .81 LG. FILL.	4
76734	ZIP STRAP	12
LW-16266-25-50	CLAMP	3
STD-1411	NUT - .250-20 PLAIN	1
STD-696	WASHER - .250 PLAIN (THIN)	4
STD-1916	SCREW - .250-20 X 1.13 LG. FIL HD	1
STD-1925	SCREW - .250-20 X .63 LG. PAN HD	2
72815	BRACKET - SUPPORT CLAMP - 90 DEGRE	3
73152	BRACKET - SUPPORT CLAMP	2
STD-692	SCREW - #10-32 X .50 LG. RD. HD.	5
STD-425	WASHER - #10 PLAIN	5
STD-670	LOCK NUT - #10-32	5
LW-M-2375	SET OF 2 PLATES - SPARK PLUG CABLE - 2 WIRE	2

Figure 26
Magnetos, Magneto Drives, and Spark Plugs

DISTRIBUTION**| Figure 26 – Magnetos, Magneto Drives, Harnesses, and Spark Plugs**

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		68C19622	GEAR, Magneto	2	2	2	2
2		MS9245-44	COTTER PIN, 3/32 diameter x 5/8 long	2	2	2	2
3		LW-12681	GASKET, Magneto	2	2	2	2
4		66GP-0SANN	MAGNETO, Plain 4370	1	1	1	1
	*	66GHP-0SBNN	MAGNETO (ES4370)	1	1	1	1
5		66GR15SANN	MAGNETO, Retard 4345	1	1	1	1
	*	66GHR15SBNN	MAGNETO (ES4345)	1	1	1	1
6	V	67P20413	HARNESS ASSEMBLY, Slick, Left, V M4019	1	1	1	1
7	V	67P20412	HARNESS ASSEMBLY, Slick, Right, V	1	1	1	1
8		66M21195	CLAMP, Magneto	4	4	4	4
9		STD-475	WASHER, 5/16 lock, internal teeth	4	4	4	4
10		STD-1410	NUT, 5/16-18 plain	4	4	4	4
11		LW-16266-25-50	CLAMP			2	2
12		STD-1411	NUT, 1/4-20 plain			2	2
13		72815	BRACKET, Support clamp, 90°			5	5
14		73136	BRACKET, Extension, fuel injector line			3	4
15		77410	BRACKET, 90°			2	2
16		73152	BRACKET, Support clamp			4	4
17		STD-475	WASHER, 5/16 lock, internal teeth			4	4
18	V**	1182-G7	SPARK PLUG, Champion, REB37E	8	8	8	8
***		01P19762-2-7	BAG, Harness attaching	1	1	1	1
* Refer to the latest revision of Service Instruction No. 1443 for a listing of approved alternate ignition systems. V Vendor Prime Manufacturer part ** Refer to the latest revision of Lycoming Service Instruction No. 1042 for a complete listing of all approved spark plugs. *** See Figure 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.							

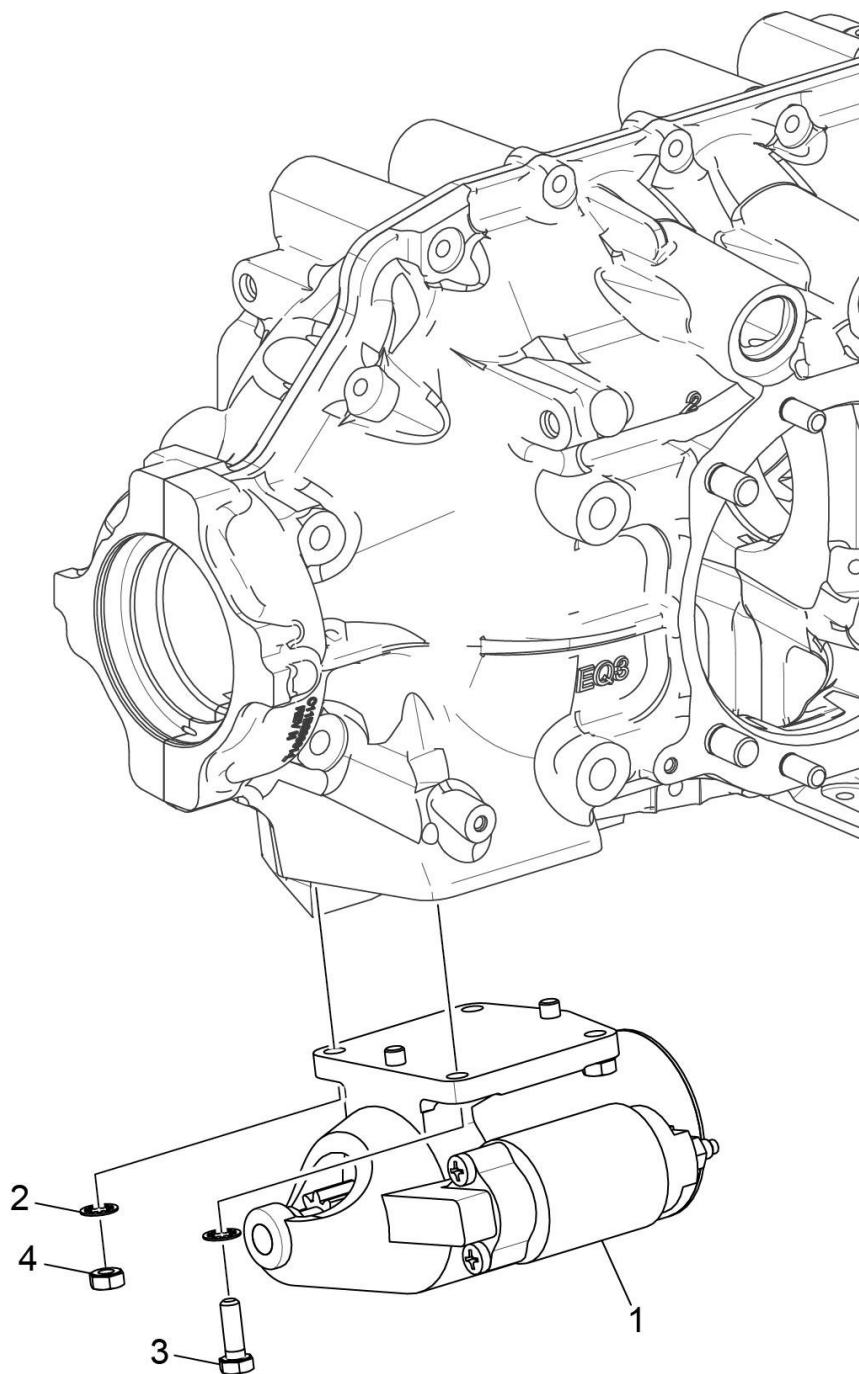


Figure 27
Starter Motor and Attaching Parts

CRANKING

Figure 27 - Starter Motor and Attaching Parts

Figure Item	Code	Part Number	Description	Units per Assembly			
				A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
1		31B23592	STARTER, 12/14P 12/24V, (149NL Sky-Tec)	1	1		
		31B26554	STARTER, 12/14P 24V (149NL/EC SKY-Tec)		1		1
		31A22104	STARTER, Sky-Tec (149-12LS)	1	1	1	1
		31B22105	STARTER, Sky-Tec (149-24LS)	1		1	
2		STD-475	WASHER, 5/16 lock, internal teeth	4	4	4	4
3		LW-31-0.94	BOLT, 5/16-18 x 15/16 long, hex head	1	1	1	1
4		STD-1410	NUT, 5/16-18 plain	3	3	3	3
NOTICE: Refer to the latest revision of Service Instruction No. 1154 for complete listing of FAA-approved starters, alternators, generators, regulators and relays.							

SERVICE KIT SECTION
Seal and Gasket Set

Part No.	Part Name	Units per Assembly			
		A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
05K26640	KIT - SEAL AND GASKET SET	1	1	1	1
05K28818 *	KIT - SEAL AND GASKET SET				1
AN901-8A	GASKET, Metal tube connect seal	1	1	1	1
LW-12681	GASKET, Magneto	2	2	2	2
LW-13353	GASKET, Oil sump	1	1	1	1
LW-14260	SEAL, Tachometer	1	1	1	1
LW-15628	SEAL, Crankshaft, oil	1	1	1	1
LW-18639	LOCKPLATE, Crankshaft gear	1	1	1	1
LW-18661	SEAL, Shroud tube	8	8	8	8
06A19956	SEAL, OIL 7/8 I.D. x 1-1/2 O.D. x 5/16	1	1	1	1
06A23493	SEAL, Shroud tube	8	8	8	8
06B23862	GASKET, Oil filter adapter	2	2	2	2
06E19769-0.63	GASKET, Annular, 5/8 I.D.	1	1	1	1
06E19769-1.00 **	GASKET, Annular 1.00 I.D.	1	1	1	1
06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1	1	1	1
8313	GASKET, Vacuum	1	1	1	1
60096	GASKET, Fuel pump	1	1	1	1
61183	GASKET, Accessory adapter	1	1	1	1
66224	GASKET, Carburetor	1	1	1	1
66732	GASKET, Valve rocker shaft cover	8	8	8	8
67193 **	GASKET, Rocker box cover	1	1	1	1
06B26811	GASKET, Rocker box cover (Silicone)				4
68315	GASKET-Accessory drive adapter	1	1	1	1
71481	RING, Oil seal, 4-27/32 I.D. x 3/32 diameter section	4	4	4	4
71973	GASKET, 2 bolt flange, 1-3/4 I.D.	4	4	4	4
72053	GASKET, Governor	1	1	1	1
72059	GASKET, Oil level gage	1	1	1	1
72075	SEAL, Oil, 3/32 section x 7/16 I.D.	2	2	2	2
72091	RING, Oil seal, 0.36 I.D. x 0.10 diameter	2	2	2	2
73818	GASKET, Accessory housing	1	1	1	1
74068	RING, Oil level gage plug	1	1	1	1
75118 **	GASKET, Exhaust flange	4	4	4	4
77611	GASKET, Exhaust flange				4
77569 **	RING, Seal, Intake pipe	4	4	4	4

SERVICE KIT SECTION**Seal and Gasket Set (Cont.)**

Part No.	Part Name	Units per Assembly			
		A 1 A 6	A 3 A 6	A 1 B 6	A 3 B 6
72711	RING, Seal Intake pipes				4
73032	GASKET, Air inlet housing				1
MS28775-015	"O" RING, 0.551 I. D x 0.07 O.D.				1
06B28651	GASKET, Air inlet housing				1
SSP-115	STICKER	1	1	1	1
* Use Kit P/N 05K28818 only for engines having P/N 06B26811 rocker box cover gasket					
** Not for use with Kit P/N 05K28818					

SERVICE KIT SECTION**Cylinder, Piston and Ring Assembly**

Part No.	Part Name	Qty.
05K26625	KIT - CYLINDER, PISTON AND RING ASSEMBLY	1
16A26081	CYLINDER AND HEAD ASSEMBLY	1
1102	PLUG, 1/8 pipe	1
71481	RING, Oil seal, 3/32 diameter x 4-27/32 I.D.	1
14D23911	PISTON, Compression ratio 8.90:1	1
14G22050	RING, Piston, compression,	2
14H29865	RING, Piston, oil	1
14J22048	PIN, Piston	1
72198	PLUG, Piston pin	2
66732	GASKET, Valve rocker shaft cover	2
06B26811	GASKET, Rocker box cover (Silicone)	1
71973	GASKET, 2 bolt flange, 1-13/16 I.D.	1
06A23493	SEAL, Shroud tube	2
71195	CONTAINER	1
75118	GASKET, Exhaust flange	2
77569	RING, Seal, Intake pipe	1
LW-18661	SEAL, Shroud tube	2
SSP-115	STICKER	1

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06E19769-1.25	GASKET	21
07A19474	BRACKET	1
07A19474	BRACKET	2
07A19880	BRACKET	8
07A21030	BRACKET	13
07A21156	BRACKET	4
07A21157	BRACKET	4
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07A28507	BRACKET ASSY	69
07F19875	LINK	13
07F21160	STRUT	4
07F21298	LINK	8
07F21998	LINK	6
07F23268	STRUT	1
07F23268	STRUT	2
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