

TIO-360-C1A6D

Illustrated Parts Catalog

June 2025

PC-TIO-360-C1A6D (Supersedes PC-406-3)



652 Oliver Street
Williamsport, PA 17701

TIO-360-C1A6D Illustrated Parts Catalog

Lycoming Part Number: PC-TIO-360-C1A6D (Supersedes PC-406-3)

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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
--	Initial Release of PC-TIO-360-C1A6D (Supersedes PC-406-3)	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 MAINTENANCE OR OVERHAUL MANUAL.

PART NUMBERS AND DESCRIPTIONS IN THIS PARTS CATALOG ARE NOT
AUTHORITATIVE AND CAN BE SUPERSEDED BY FAA APPROVED SERVICE
BULLETINS AND SERVICE INSTRUCTIONS.

Purpose of this Catalog

This Illustrated Parts Catalog (IPC) contains a complete list of spare parts for the Lycoming TIO-360-C1A6D wide cylinder flange model engine.

How to Use this Catalog

This catalog is based on the Air Transport Association (ATA) Spec 100 format. In order to clarify illustrations, Lycoming has taken discretion to classify non-system related assemblies and components in the same chapters, because they are physically connected.

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 format specifies the subject matter for each chapter-section. According to the ATA Standards, the following chapters apply to the TIO-360-C1A6D Illustrated Parts Catalog:

24 (Electrical Power), 72 (Reciprocating Engine), 73 (Engine and Fuel Control), 74 (Ignition), and 80 (Starting).

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 below their associated parts grouping or assembly. 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 may be found in the appropriate Vendor’s Parts Catalog. A list of vendor’s addresses appears in the latest revision of Lycoming Service Letter No. L114.

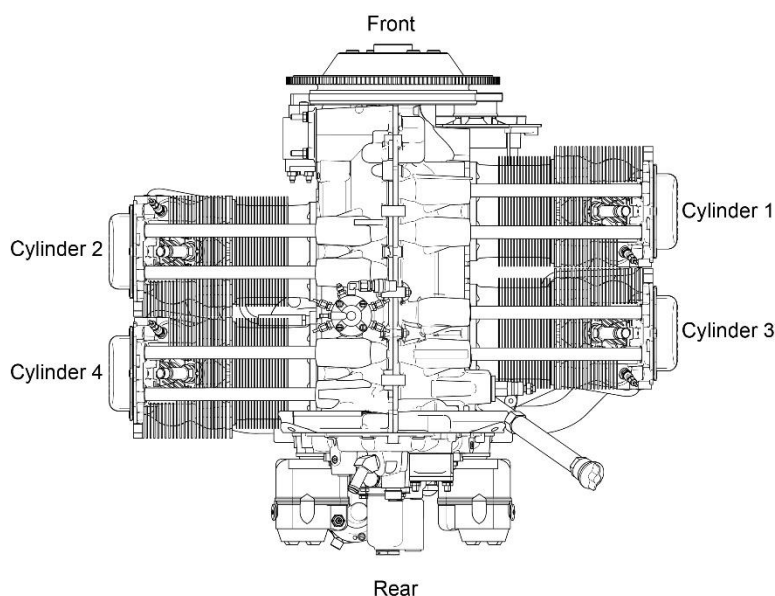
Any reference in this document to the suppliers/part manufacturer’s product, by name, trademark, part number or other description is solely for the purpose of identification and does not indicate or infer that Lycoming accepts responsibility for quality control and/or airworthiness of parts, which do 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 considered to be the propeller end and the oil sump is considered to be 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 engine is 1-3-2-4.



Top View of Engine



How to Order Parts

To order parts from this parts catalog, contact an Authorized Lycoming Distributor with the part number(s), nomenclature, and quantity along with the model and serial number of your engine. Authorized Lycoming Distributors will have up-to-date part number supersedure, pricing, and availability information on parts listed in this parts catalog.

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

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

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	
Adj.	Adjustable
amp.	Ampere
Assy	Assembly
F	
F	Flat Tappet
Fill.	Fillister
H	
Hex.	Hexagon
I	
I.D.	Inside Diameter
M	
mm	Millimeter
N	
No.	Number
NPT	National Pipe Taper (thread)
O	
O.D.	Outside Diameter
P	
P/N	Part Number
psi	Pounds per square inch
RT	Roller Tappet

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OVERSIZE AND UNDERSIZE PARTS LISTING

PART NO.	DESCRIPTION	OVERSIZE (IN.)					OVERSIZE (IN.)	
		P05 .005	P10 .010	P15 .020	P20 .030	P50 .050	M03 .003	M06 .006
18A26093	BEARING, Crankshaft Front						X	X
18D26098	BEARING, Crankshaft						X	X
18M26105	BEARING, Connecting Rod						X	X
72155-S	BUSHING, Prop Flange Short	X						
75656-S	BUSHING, Prop Flange Long	X						
75657-S	BUSHING, Prop Flange Index	X						
74637	BUSHING, Rocker Shaft	X						
69796	DOWEL, Crankshaft		X					
STD-1065	DOWEL, Crankshaft		X					
76943	GUIDE, Intake Valve				X			
16R22126	GUIDE, Exhaust Valve				X			
66796	INSERT, Spark Plug		X					
74241	RING, Piston		X					
14H29884	RING, Piston		X					
72057	SEAT, Intake Valve			X				
72058	SEAT, Exhaust Valve			X				
LW-13792	SEAL, Crankshaft Oil					X		

NOTE

When ordering oversize and undersize parts, be sure to specify the required oversize and undersize dimension with the proper part number. For example, to order bearing P/N 18A26093 in .003 undersize, order P/N 18A26093-M03. Oversize code letter is "P" while undersize code letter is "M". These letters are then followed by the number designating the size in thousandths of an inch.

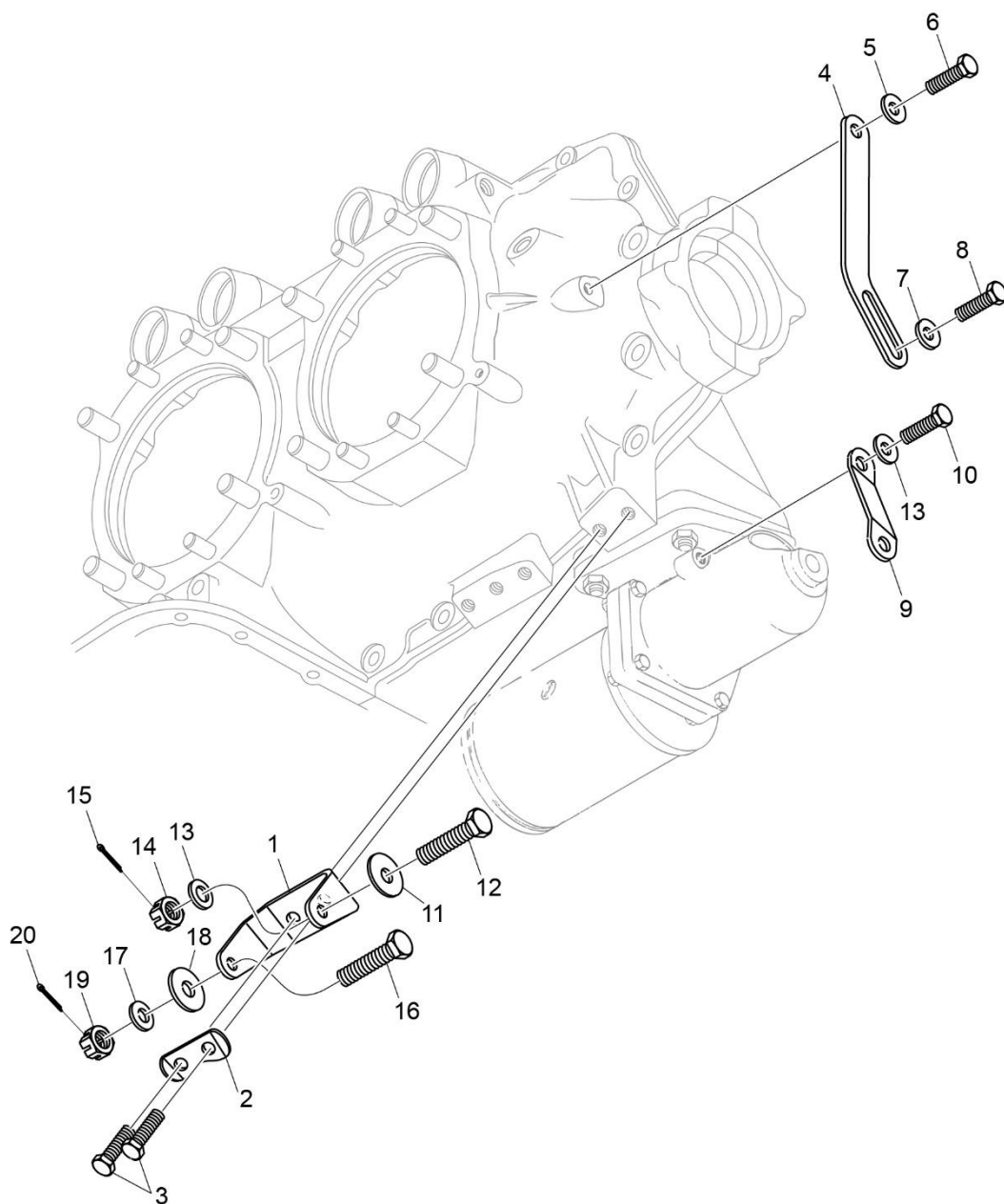


Figure 1A
Alternator Mounting and Attaching Parts

DC GENERATION**Figure 1A - Alternator Mounting and Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
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.	1
7		STD-1727	WASHER, Plain, 3/4 O.D. x 11/32 I.D. x 1/8 thick	1
8		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head.	1
9		07F23268	STRUT, Alternator support	1
10		LW-31H0.75	BOLT, 5/16-18 x 3/4 long, hex. head.	1
11		STD-35	WASHER, 5/16 plain	1
12		AN6-17	BOLT, 3/8-24 x 1-61/64 long, hex. head., drilled end	1
13		STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	6
14		STD-872	NUT, 3/8-24 slotted	1
15		STD-713	COTTER PIN, 3/32 dia. x 3/4 long	1
16		AN6-16	BOLT, 3/8-24 x 1-53/64 long, hex. head, drilled end	1
17	AR	76534	SHIM, 1-1/8 O.D. x 13/32 I.D. x .005 thick	AR
18	AR	STD-690	WASHER, 13/16 O.D. x 25/64 I.D. x 1/16 thick	AR
19		STD-872	NUT, 3/8-24 slotted	1
20		STD-713	COTTER PIN, 3/32 dia. x 3/4 long	1
AR – as Required				

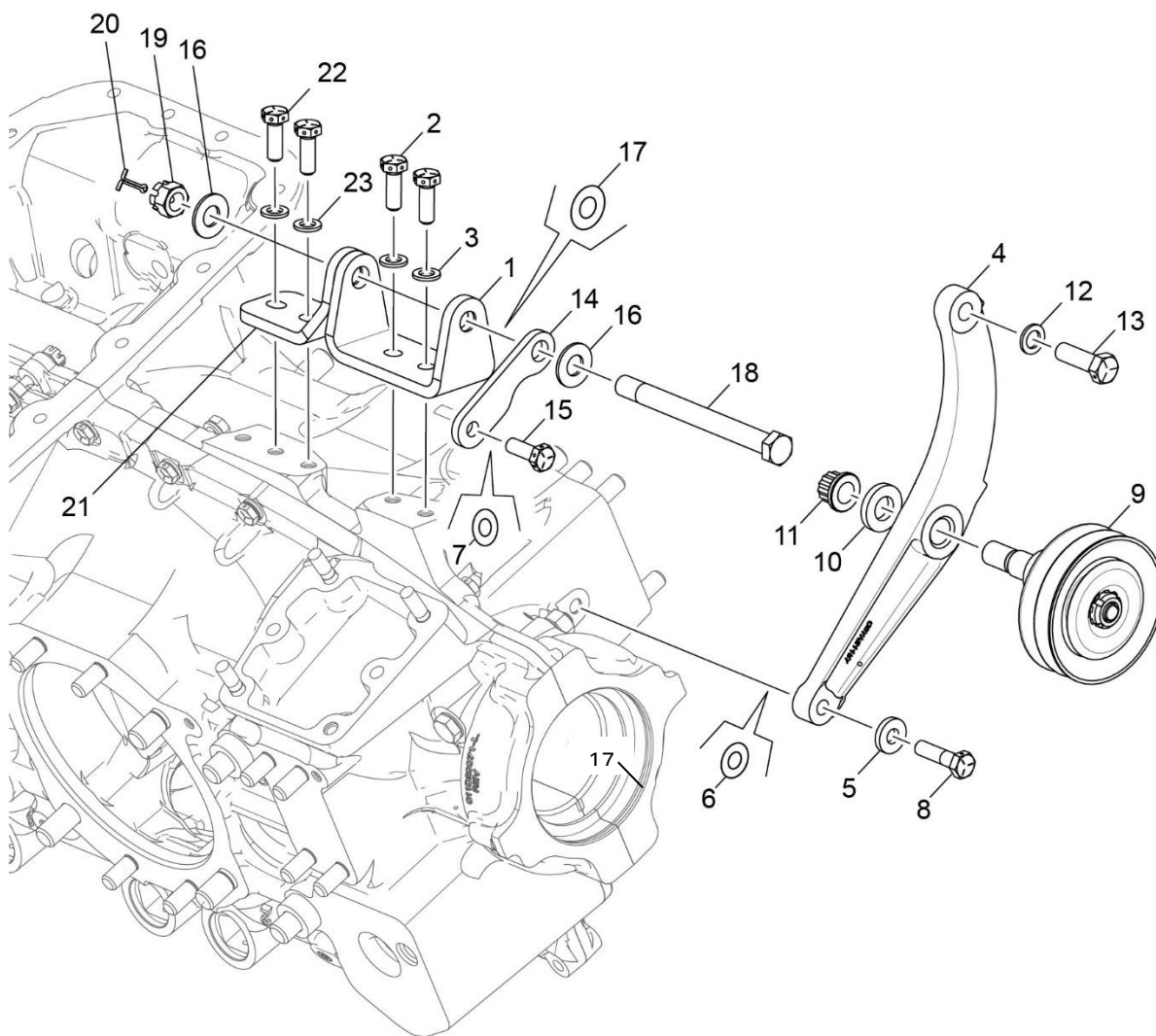


Figure 1B
Alternator Mounting and Attaching Parts

DC GENERATION**Figure 1B - Alternator Mounting and Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
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

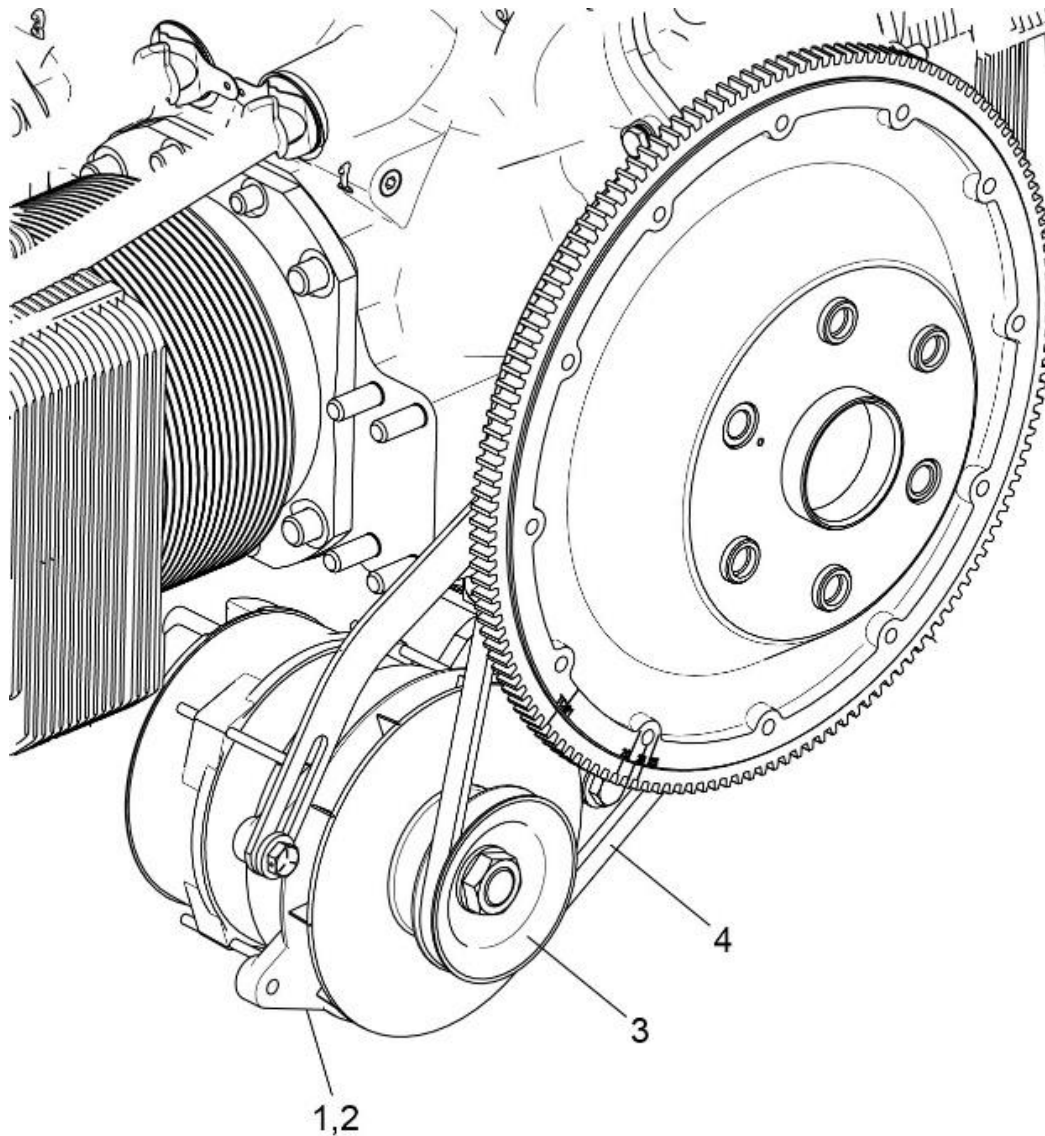


Figure 2A
Alternator Assembly

DC GENERATION**FIGURE 2A - ALTERNATOR ASSEMBLY AND BELT**

Figure Item	Code	Part Number	Description	Units per Assembly
1		32CI9553	ALTERNATOR ASSY., 24 Volt, 70 Amp.	1
2	V	LW-14326	ALTERNATOR, ALU-8521 24 Volt, 70 Amp.	1
3		36819484	PULLEY, Alternator	1
4		37A19773-376	BELT, Alternator drive, 3/8 wide	1
V Vendor Prime Manufacturer part <u>NOTE:</u> See latest revision of Lycoming Service Instruction No. 1154 for complete listing of FAA approved starters, generators, alternators, regulators and relays.				

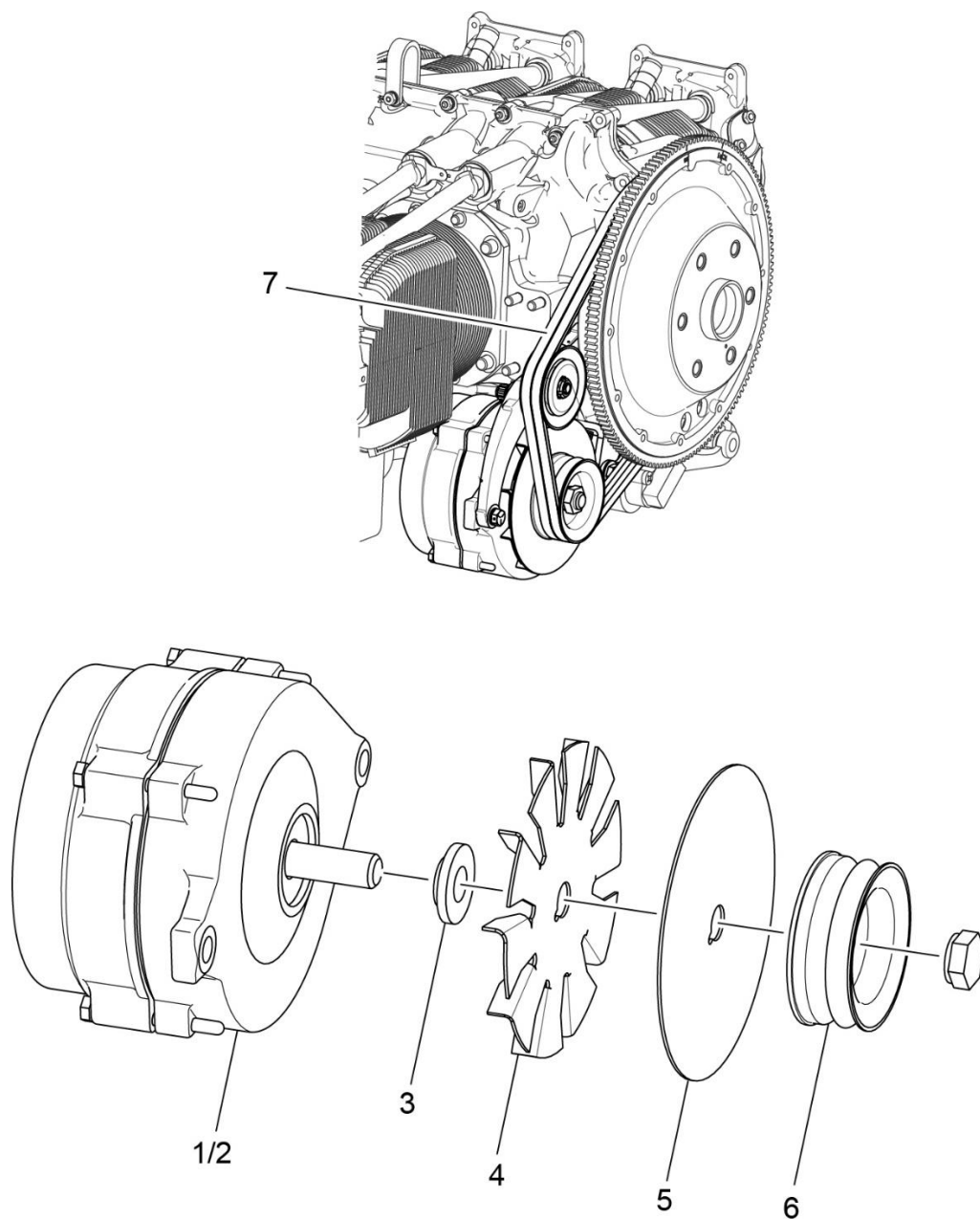


Figure 2B
Alternator and Belts

DC GENERATION**Figure 2B – Alternator and Belts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		32C21703	ALTERNATOR ASSEMBLY, 28 volt, 130 amp	1
2		32C21420	ALTERNATOR, 28V, 130 amp	
3		32F21674	SPACER, Alternator fan	1
4		32G21675	FAN, Alternator	1
5		32R21676	BACKPLATE, Alternator fan	1
6		36B21680	PULLEY, Alternator, dual belt	1
7		37A17773M396	SET OF 2, Belt, alternator drive, 3/8 wide	1
<u>NOTICE:</u> See latest revision of Lycoming Service Instruction No. 1154 for complete listing of FAA approved starters and alternators.				

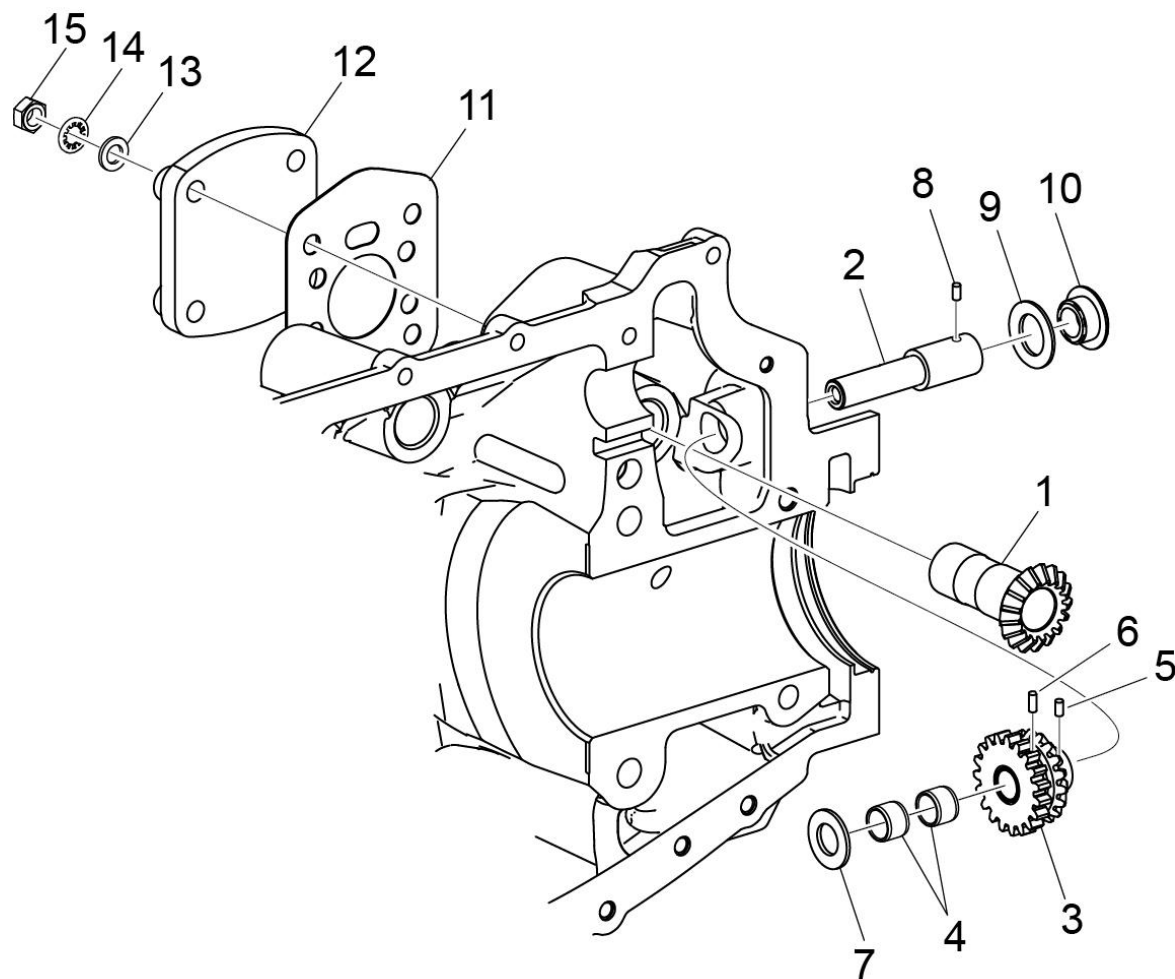


Figure 3
Propeller Governor Drive Assembly

POWER SECTION**Figure 3 - Propeller Governor Drive Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		77875	GEAR, Prop. governor driven	1
2		LW-14021	SHAFT, Prop. governor idler gear	1
3		77874	GEAR ASSY., Prop. governor idler	1
4		77872	BUSHING, Prop. governor idler gear	2
5		STD-19	DOWEL, 3/32 dia. x 7 /32 long	1
6		STD-798	DOWEL, 3/32 dia. x 9/32 long	1
7		73249	WASHER, Thrust	AR
		73250	WASHER, Thrust	AR
		73251	WASHER, Thrust	AR
		73252	WASHER, Thrust	AR
		01L21418	WASHER, Thrust	AR
8		AN56581032H5	SET SCREW, No. 10-32 x 5/16 long	1
9		70455	GASKET, 25/32 I.D. x 1-1 /8 O.D. x 1 /16 thick	1
10		LW-13896	PLUG, 3 / 4-16 hex. head	1
11		72053	GASKET, Governor	1
12		72378	COVER, Governor drive	1
13		STD-35	WASHER, 5/ 16 plain	4
14		STD-475	WASHER, 5/ 16 lock, internal teeth	4
15		STD-1410	NUT, 5/16-18 plain	4

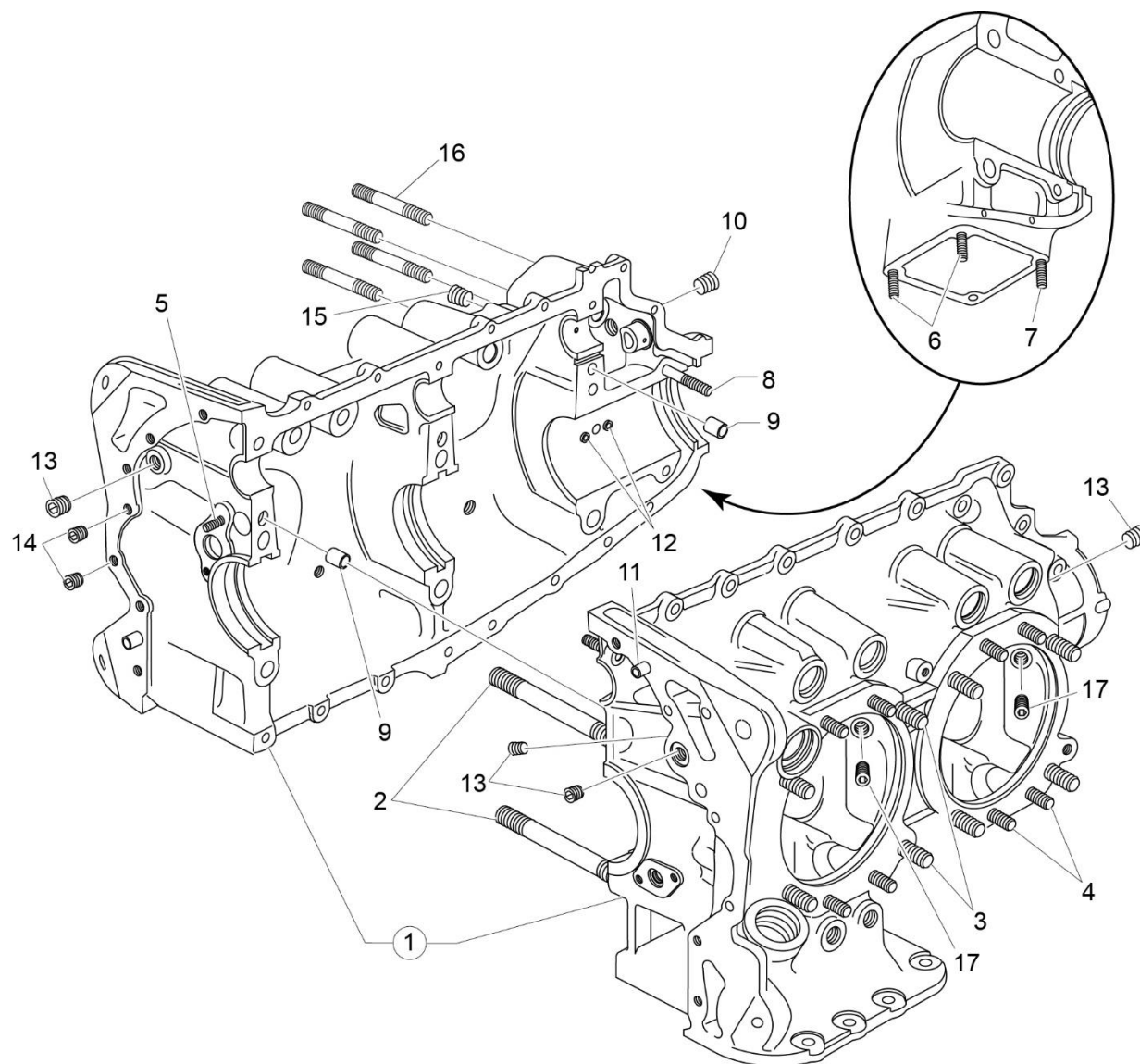


Figure 4
Crankcase Assembly

POWER SECTION**Figure 4 - Crankcase Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-14666-1	CRANKCASE ASSEMBLY	1
2		75154	STUD, 1/2-13 x 10-1/32 long	2
3		50-15	STUD, 1/2-13 x 1-7/8 long	8
4		38-13	STUD, 3/8-16 x 1-5/8 long	16
5		38D-17	STUD, 3/8-16 x 2-1/8 long, drilled	1
6		31C-12	STUD, 5/16-18 x 1-1/2 long	2
7		31C-13	STUD, 5/16-18 x 1-5/8 long	1
8		38-22	STUD, 3/8-16 x 2-3/4 long	1
9		STD-557	DOWEL, 1/2 diameter x 11/16 long, hollow	2
10		72158	BUSHING, Governor drive idler shaft	1
11		STD-514	DOWEL, 5/16 diameter x 1/2 long	2
12		69796	DOWEL, Crankshaft bearing	2
13		1102	PLUG, 1/8-27 NPT, Allen head	4
14		STD-1623	INSERT, 1/4-20 Heli-coil x 3/8 long	2
15		STD-1339	PLUG, 1/16-27 NPT, Allen head	1
16		31C-16	STUD, 5/16-18 x 2.00 long	4
17		73772	NOZZLE ASSY., Piston cooling	4

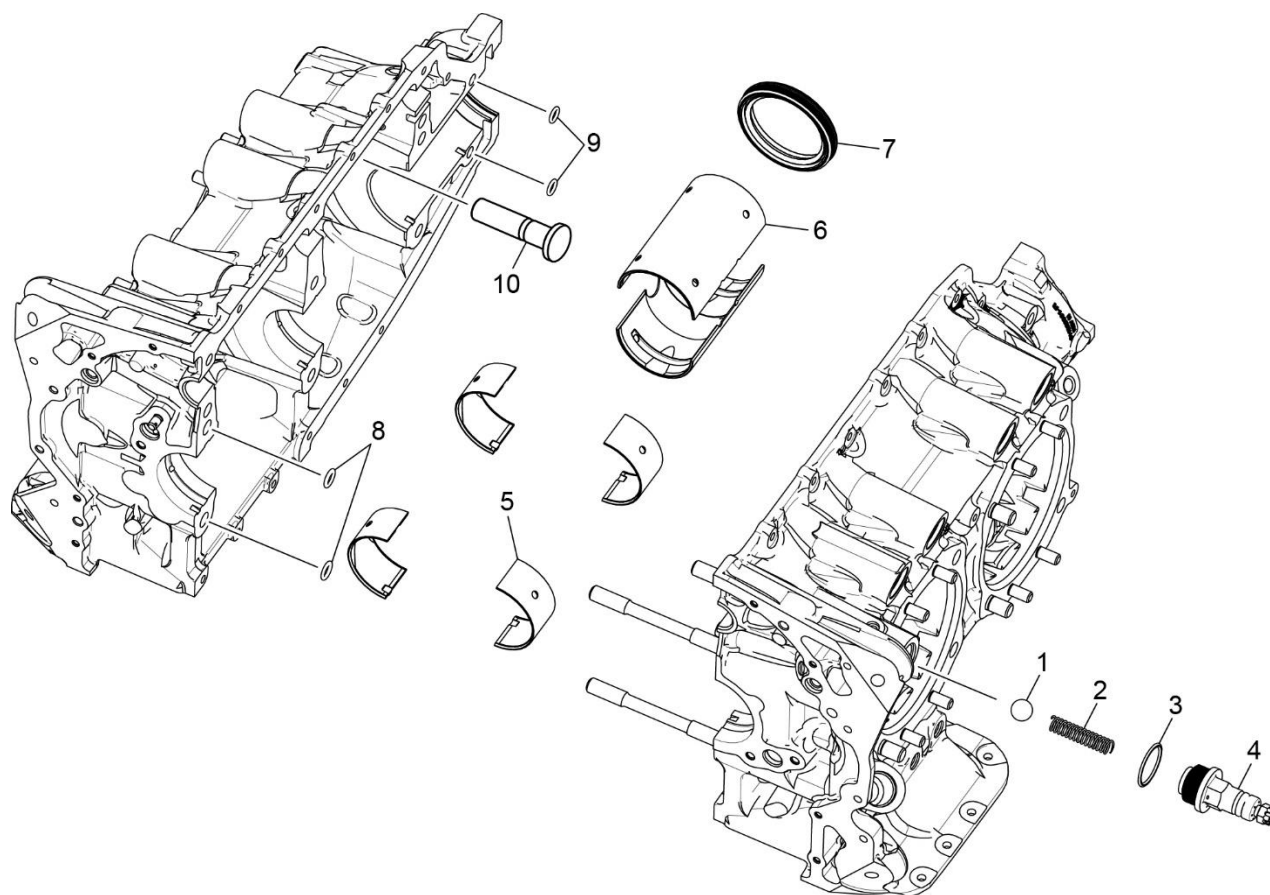


Figure 5
Crankcase Related Parts

POWER SECTION**Figure 5 - 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	AR
		68668 *	SPRING, Oil pressure relief valve	AR
		77467 *	SPRING, Oil pressure relief valve	AR
		LW-11713 *	SPRING, Oil pressure relief valve	AR
		LW-18085 *	SPRING, Oil pressure relief valve	AR
3		06E19769-1.25	GASKET, 1-1/4 I.D. x 1-1/2 O.D. x 3/32 annular	1
4		77808	VALVE ASSY., Oil pressure relief valve, adj.	1
5		18E23886	BEARING, Crankshaft	4
6		18B23885	BEARING, Crankshaft, front	2
7		LW-15628 **	SEAL, Crankshaft oil, solid	1
8		72075	SEAL, Oil, 3/32 section x 7116 1.0.	2
9		72091	RING, Oil seal, 23/64 1.0. x 7/64 diameter	2
10		15B26262	BODY, Hydraulic tappet, flat type	8
AR – as Required * Select spring to give a minimum of three threads exposed on adjusting screw to allow field adjustment. Reference See latest revision of Lycoming Table of Limits SSP-1776, Part I for spring identification. ** See latest edition of Lycoming Service Instruction No. 1324 for installation.				

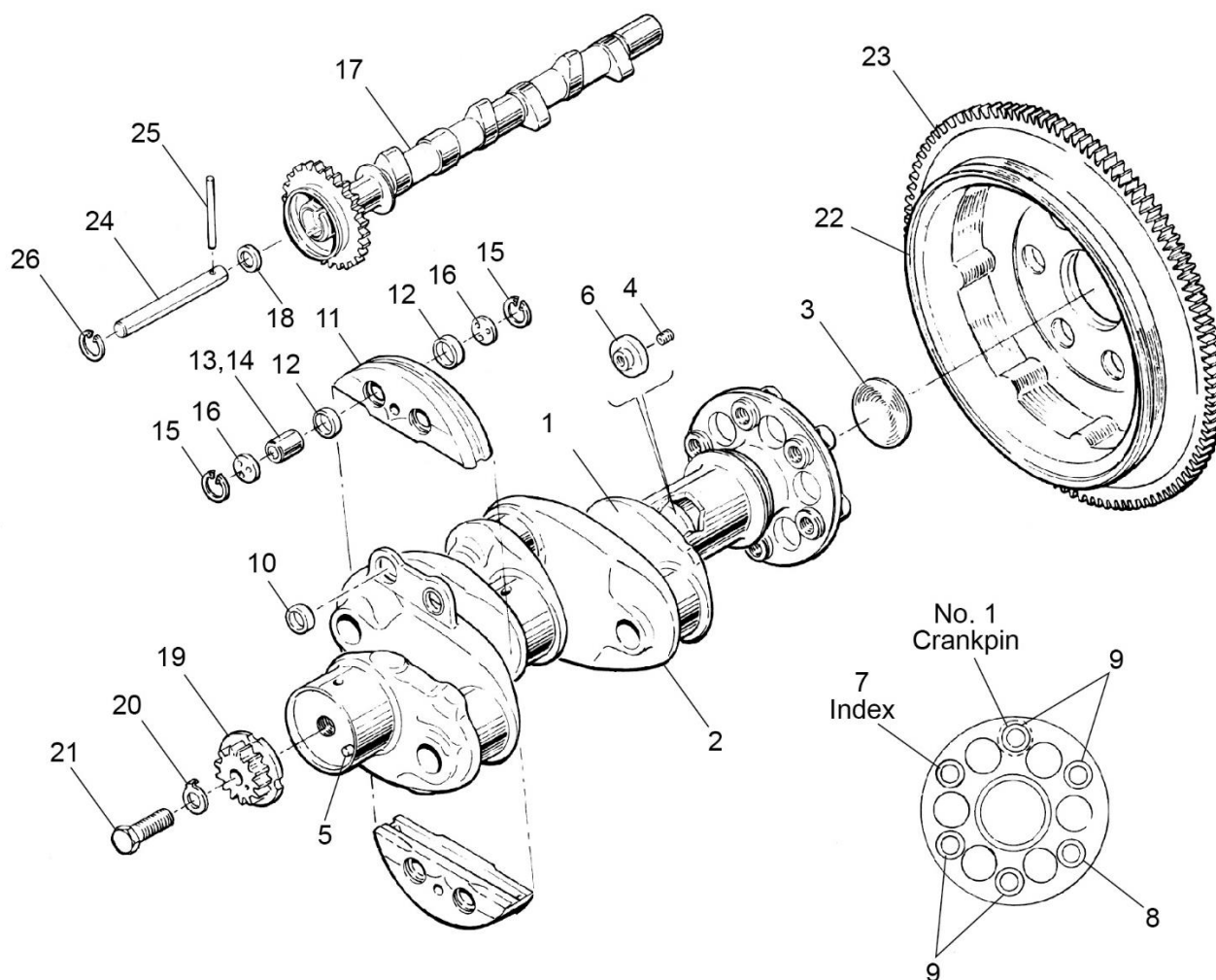


Figure 6
Crankshaft, Counterweight, Camshaft and Related Parts

POWER SECTION**Figure 6 - Crankshaft, Counterweight, Camshaft and Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		13C37338	CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY	1
2		13C37314	CRANKSHAFT ASSEMBLY	1
3		LW-14529	PLUG, 2-1/16 diameter expansion	1
4		1102	PLUG, 1/8-27 NPT, Allen head	1
5	*	STD-2078	DOWEL, 3/8 O.D. x 1/2 long	4
6	*	74711	PLUG, 1-1/4 O.D., 1/8 NPT	1
7	*	75657-S	BUSHING, Propeller flange, indexing	1
8		72155-S	BUSHING, Propeller flange, short	1
9		75656-S	BUSHING, Propeller flange, long	1
10		73810	BUSHING, C'shaft dynamic counterweight	1
11		LW-19227	COUNTERWEIGHT ASSEMBLY	2
12		71903-A	BUSHING, Dynamic counterweight	8
13		14W21696	ROLLER, Dynamic counterweight, 8th order	2
14		72797	ROLLER, Dynamic counterweight, 6.3 order	2
15		LW-14820	RING, Internal retaining	8
16		71907	WASHER, Dynamic counterweight	8
17		LW-18847	CAMSHAFT ASSEMBLY	1
18		76118	SPACER, Tachometer shaft centering	1
19		13S19649*	GEAR, Crankshaft	1
20		LW-10332	LOCKPLATE, Crankshaft gear	1
21		STD-2251	BOLT, 1/2-20 x 1-19/32 long, hex. head	1
22		74977	SUPPORT ASSEMBLY, Starter ring gear	1
23		72566	GEAR, Starter ring, 12/14 pitch	1
24		76121	SHAFT ASSEMBLY, Tachometer	1
25		LW-18667	PIN, 3/16 diameter x 2-21/64 long	1
26		STD-2231	RING, Internal retaining	1

* Refer to the latest revision of Lycoming Engines Service Instruction No. 1098 for additional details.

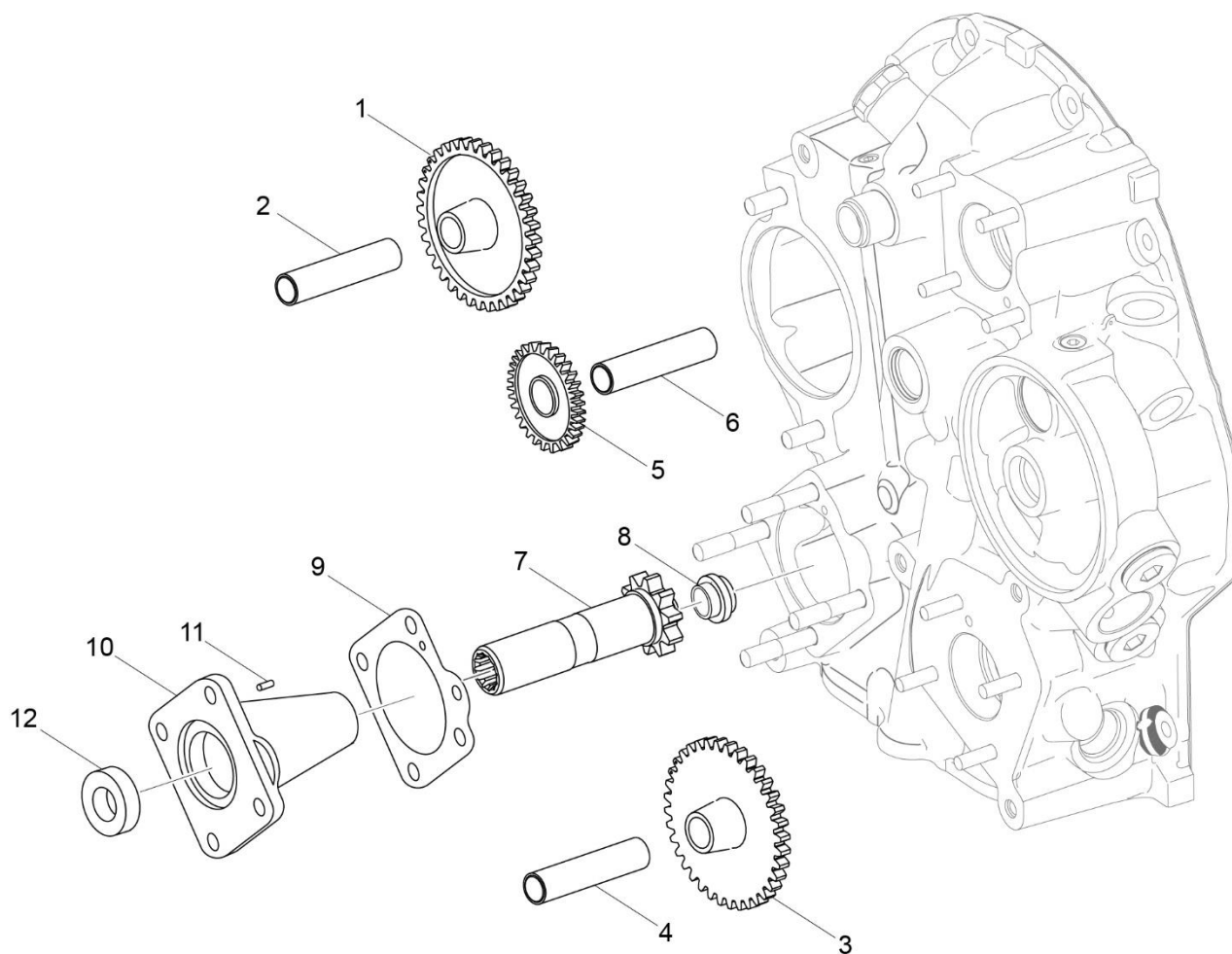


Figure 7
Crankshaft And Fuel Pump Idler Gears

POWER SECTION**Figure 7 - Crankshaft And Fuel Pump Idler Gears**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-10296	GEAR ASS.Y., Crankshaft idler	1
2		LW-10299	SHAFT, Crankshaft idler	1
3		LW-10288	GEAR ASSY., Crankshaft idler	1
4		LW-10298	SHAFT, Crankshaft idler	1
5		LW-10323	GEAR ASSY., Fuel pump idler	1
6		LW-10298	SHAFT, Fuel pump idler	1
7		LW-10327	SHAFT GEAR ASSY., Fuel pump drive	1
8		61166	THRUST BUTTON	1
9		69164	GASKET, Fuel pump adapter	1
10		69159	ADAPTER ASSY., Fuel pump drive	1
11		STD-1774	PIN, 1/8 dia. x 1/4 long	1
12		STD-213	SEAL, Oil, 3/4 I.D. x 1-3/8 O.D.	1

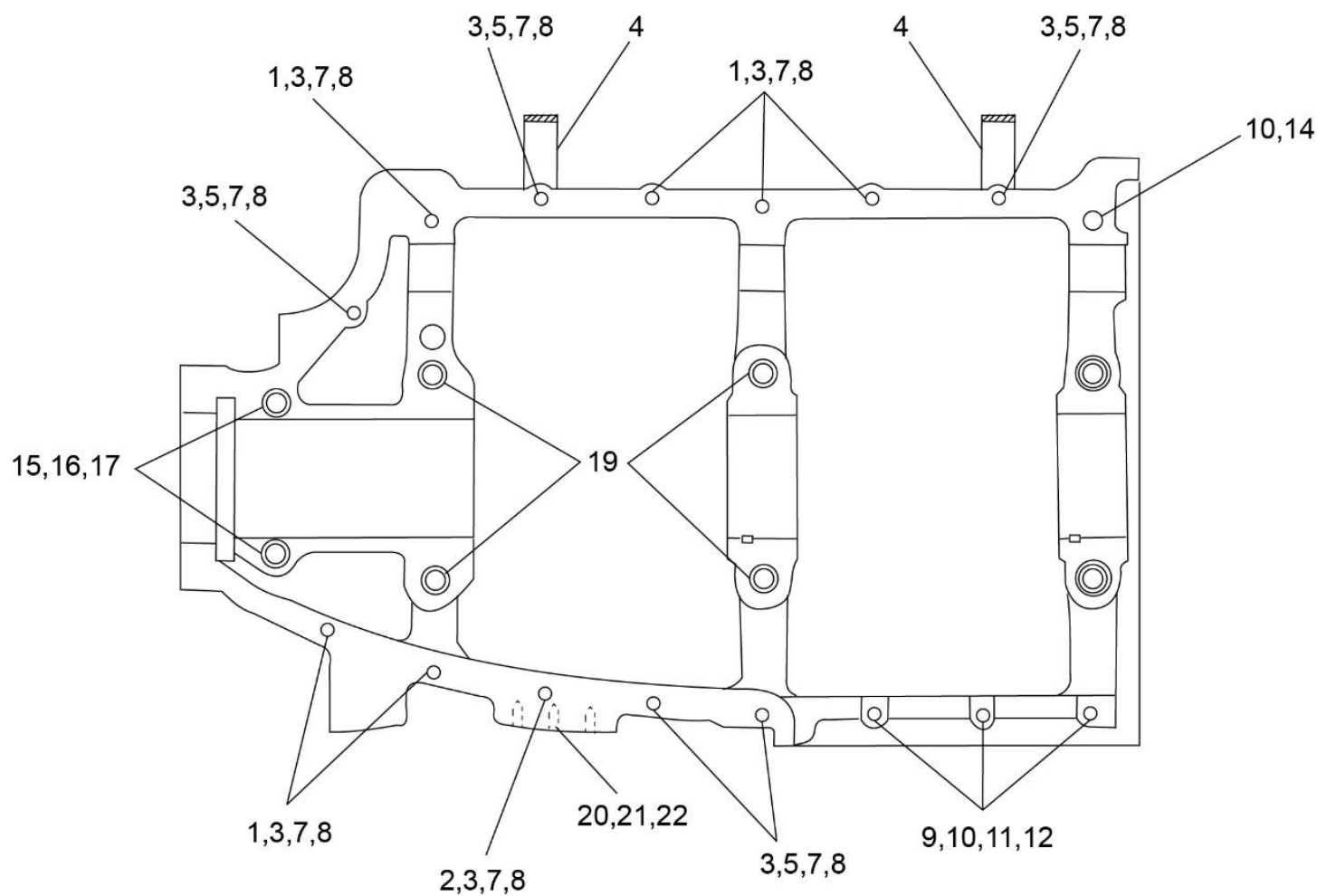


Figure 8
Crankcase Attaching Parts

POWER SECTION**Figure 8 - Crankcase Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-25-1.50	BOLT, 1/4-20 x 1-1/2 long, hex. hd.	7
2		LW-25-1.63	BOLT, 1/4-20 x 1-5/8 long, hex. hd.	1
3		STD-8	WASHER, 1 / 4 plain	20
4		60803	STRAP, Lifting	2
5		LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long, hex. hd.	2
6		LW-25-1.13	BOLT, 1 /4-20 x 1-1 /8 long, hex. hd.	4
7		STD-160	WASHER, 1 / 4 lock, internal teeth	12
8		STD-1411	NUT, 1/4-20 plain	9
9		LW-25S1 .50	BOLT, 1/4-20 x 1-1/2 long, hex. hd. dr. end	3
10		STD-8	WASHER, 1/4 plain (max. 9)	AR
11		STD-2249	NUT, 1/4-20 slotted	3
12		STD-33	WASHER, 3/8 plain	3
13		NAS1149F0632P	WASHER, 3/8 plain (thin)	AR
14		STD-872	NUT, 3/8-24 slotted	1
15		AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.	2
16		STD-33	WASHER, 3/8 plain	2
17		STD-678	WASHER, 3/8 lock, internal teeth	2
18		STD-596	NUT, 3/8-24 plain	2
19		76220	STUD, 1 /2-20 x 10-45/64 long	4
20		STD-35*	WASHER, 5/ 16 plain	5
21		STD-475*	WASHER, 5/16 lock, internal teeth	1
22		LW-31-0.94*	BOLT, 5/16-18 x 15/16 long, hex. hd.	1
* Install in center hole at rear alternator attaching pad.				

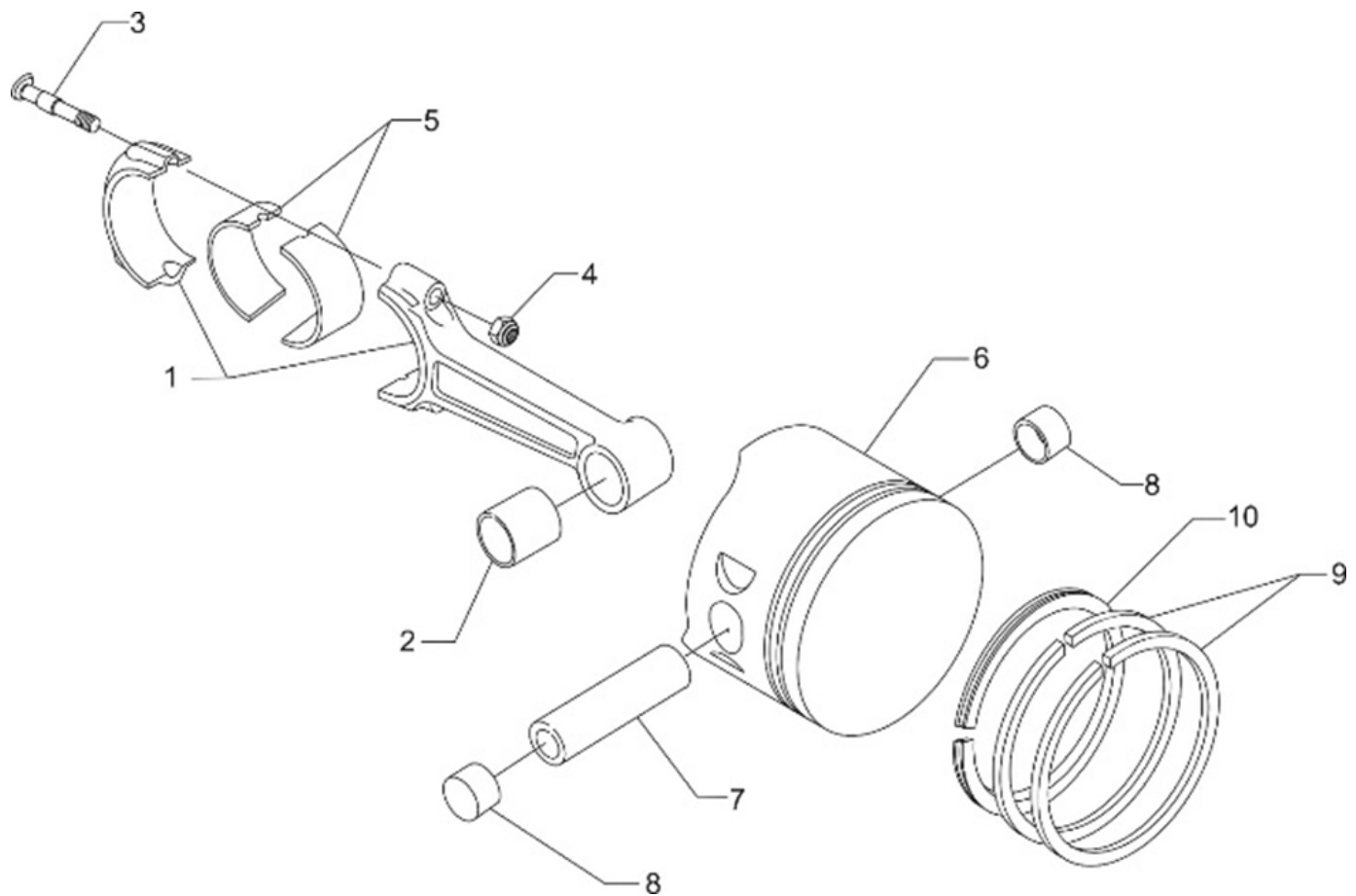


Figure 9
Connecting Rods, Pistons and Ring Assemblies

CYLINDER SECTION**Figure 9 - Connecting Rods, Pistons and Ring Assemblies**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-13422	ROD ASSY., Connecting	4
2		01K28983	BUSHING, Connecting rod, upper	4
3		LW-12596	BOLT, Connecting rod	8
4		LW-12186	NUT, Connecting rod bolt	8
5		18M23887	BEARING, Connecting rod	8
6		14D23907	PISTON, Compression ratio 7.30:1	4
7	❖	LW-14078	PIN, Piston	4
8	❖	72198	PLUG, Piston pin	8
9		74241	RING, Piston, compression, 5.125 bore	8
10		14H29884	RING, Piston, oil regulating (expander type)	4
❖ Refer to the latest revision of Lycoming Service Instruction No. 1267.				

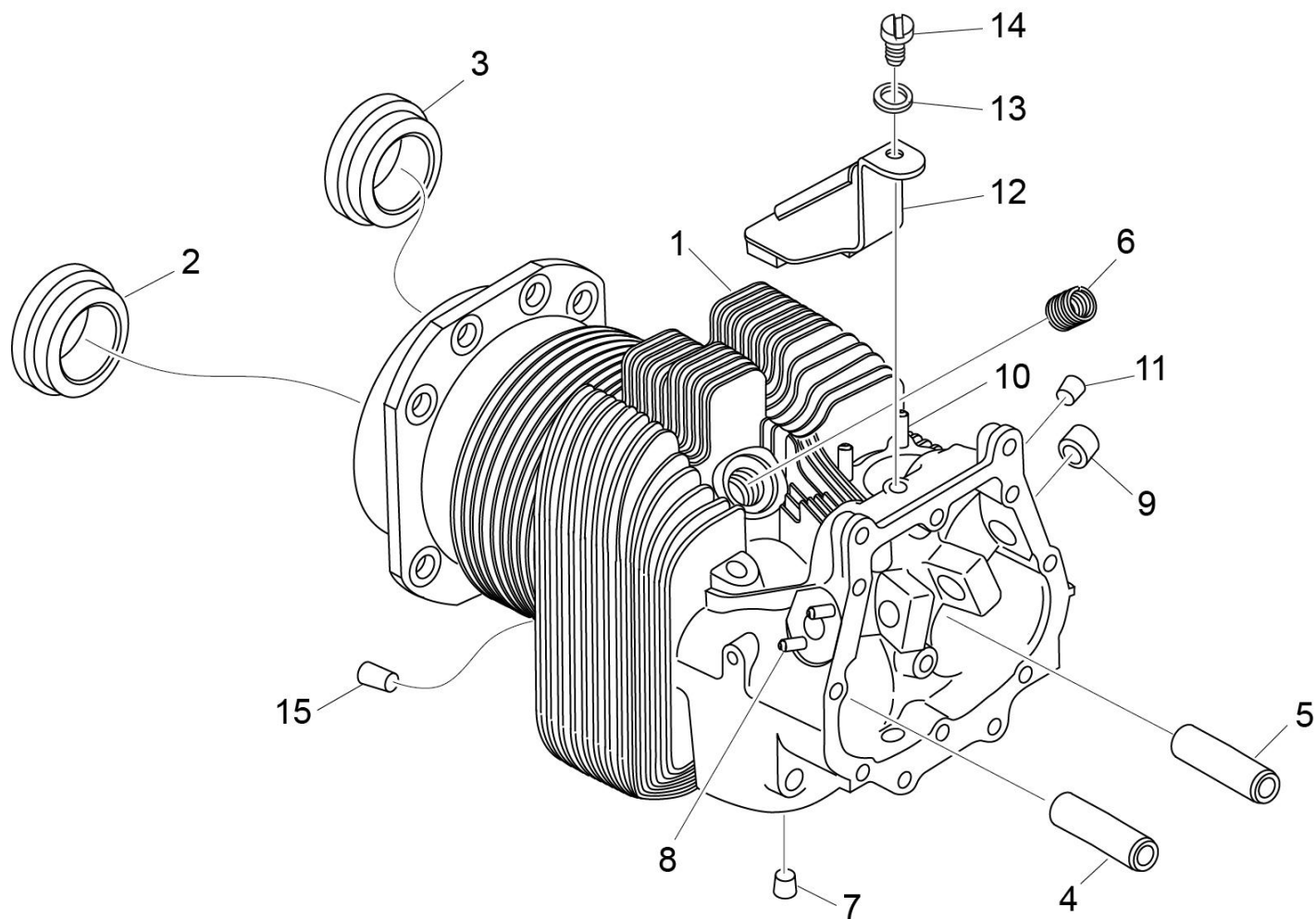


Figure 10
Cylinder Assembly

CYLINDER SECTION**Figure 10 - Cylinder Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		16A30260-01	CYL AND HEAD ASSY., (5.125 Bore)(4.375 Stroke)	4
2		LW-12688	SEAT, Intake valve	4
3		16T19468	SEAT, Exhaust valve	4
4	❖	LW-18753	GUIDE, Valve, intake	4
5	❖	LW-14045	GUIDE, Valve, exhaust (Ni-resist)	4
6		69260	INSERT, Spark plug (long reach)	8
7		72706	INSERT, Heli-coil, 1/4-20 NC x 3/8 long, self-locking	8
8		25C-8	STUD, 1/4-20 x 1.00 long	8
9		66670	BUSHING, Rock shaft, inner	16
10		25C-10	STUD, 1/4-20 x 1-1/4 long	16
11		STD-1353	INSERT, Heli-coil, 10-24 x 3/8 long, notched	8
12		LW-13123	BAFFLE, Center fin pack	4
13		STD-8	WASHER, 1/4 plain	4
14		STD-1925	SCREW, 1/4-20 x 5/8 long, pan hd. self-locking	4
15		1102	PLUG, 1 /8 pipe	8
❖ Refer to the latest revision of Lycoming Service Instruction No. 1256 for service valve guides.				

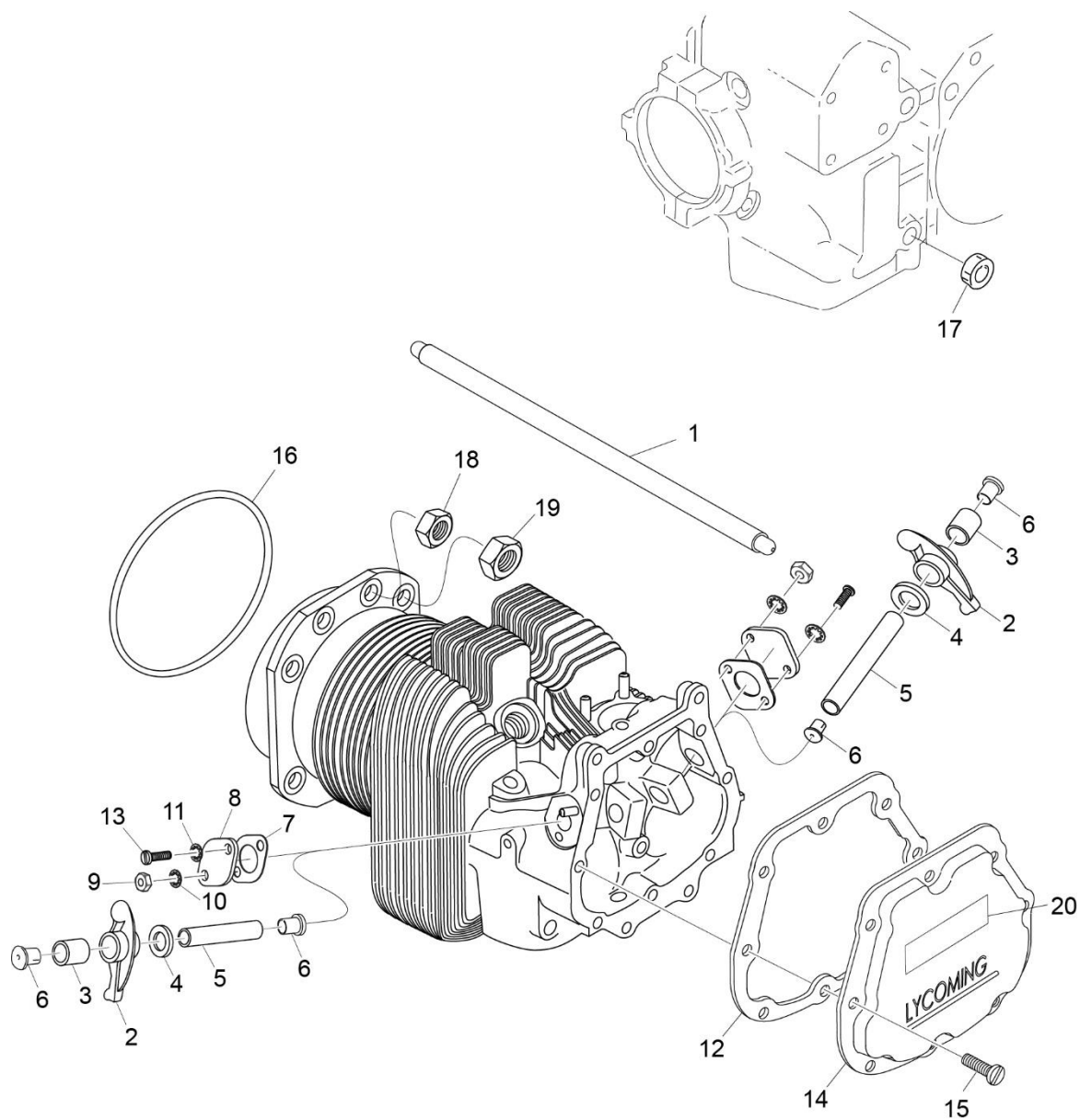


Figure 11
Cylinder Related Parts

CYLINDER SECTION

Figure 11 - Cylinder Related Parts

Figure Item	Code	Part Number	Description	Units per Assembly
1	❖	15F28835-62*	ROD ASSEMBLY, Push	AR
	❖	15F28835-63*	ROD ASSEMBLY, Push	AR
	❖	15F28835-64*	ROD ASSEMBLY, Push	AR
2	▲	17F23346	ROCKER ASSEMBLY, Valve	8
3		76242	BUSHING, Valve rocker	8
4		71549	WASHER, Valve rocker thrust	8
5		72626	SHAFT, Valve rocker	8
6		LW-11665	THRUST BUTTON, Rocker shaft	16
7		66732	GASKET, Valve rocker shaft cover	8
8		72710	COVER, Valve rocker shaft	8
9		72709	SCREW, 1/4-20 x 5/8 long, stainless	8
10		75233	SEAL, "O" Ring, rocker shaft cover screw	16
11		STD-160	WASHER, 1/4 lock, internal teeth	8
12		06B28890	GASKET, Rocker box cover	4
13		STD-1411	NUT, 1 / 4-20 plain	8
14		LW-14433	COVER ASSY., Rocker box	4
15		STD-1925	SCREW, 1/4-20 x 5/8 long, pan hd. self-locking	32
16		71481	RING, Oil seal, 3/32 dia. x 4-27 /32 1.0.	4
17		74887	SPACER, 33/64 1.0. x 7 /8 0.0. x 3/8 thick	2
18		383-B	NUT, 3/8-24 plain	16
19		STD-2090	NUT, 1 /2-20 plain	18
20		74494	PLATE, Spark plug reach caution	4
AR as required ❖ Refer to the latest revision of Service Instruction No. 1060 for push rod application. ▲ Due to the size of the area where the part number is stamped, the last five digits may be all that is shown (23346).				

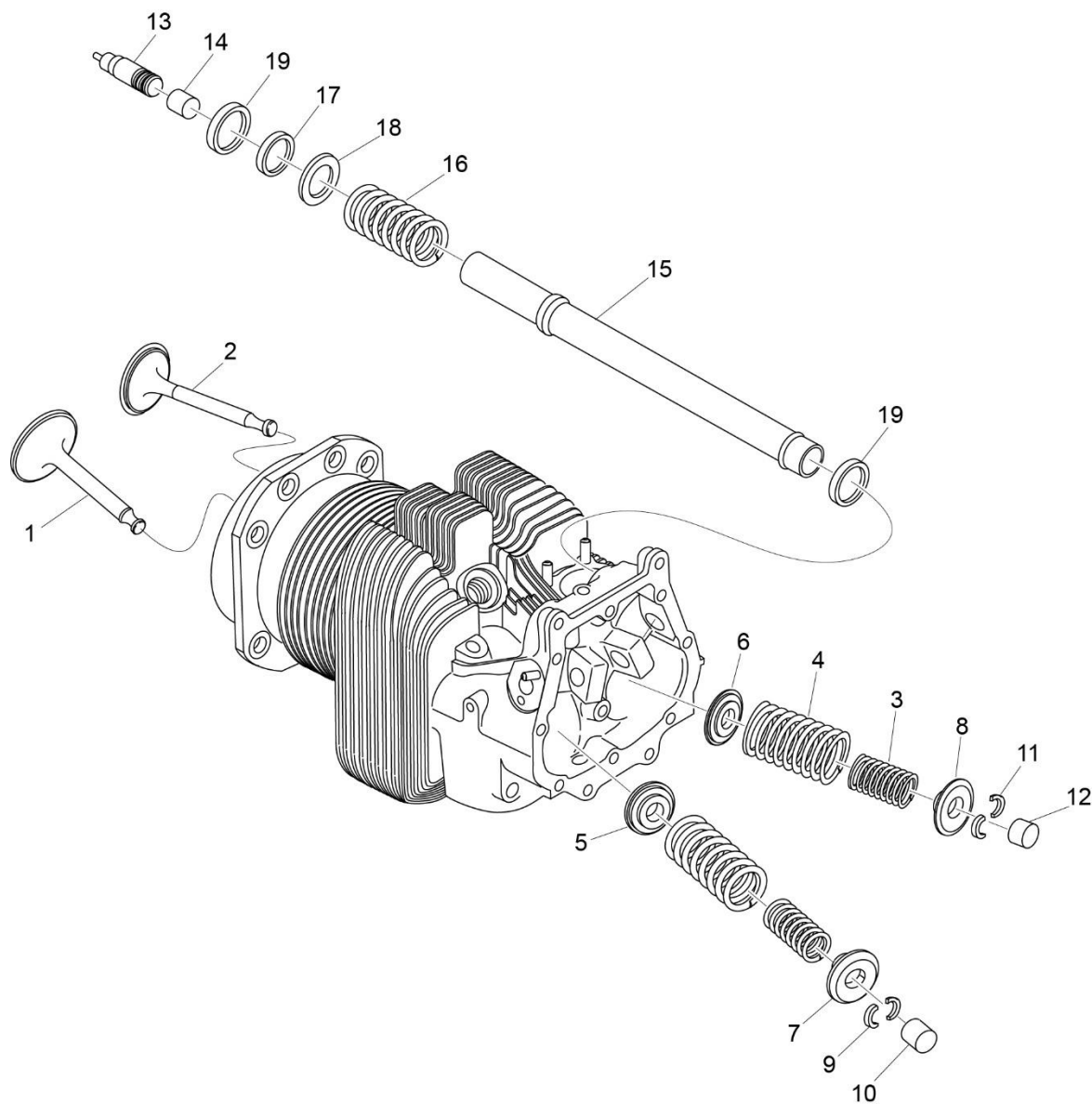


Figure 12
Valve Assembly and Related Parts

CYLINDER SECTION**Figure 12 – Valve Assembly and Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		17A26621	VALVE, Intake	4
2		17B23944	VALVE, Exhaust	4
3		LW-11797	SPRING, Valve, inner (white)	8
4		LW-11796	SPRING, Valve, outer (white)	8
5		LW-14893	SEAT, Valve spring, lower, intake	4
6		LW-14894	SEAT, Valve spring, lower, exhaust	4
7		69532	SEAT, Valve spring, upper, intake	4
8		LW-16475	SEAT, Valve spring, upper, exhaust	4
9		72050	KEY, Valve, intake	8
10		62388	CAP, Valve stem	4
11		17C21191	KEY, Valve, exhaust	8
12		17C19386	CAP, Valve stem, exhaust	4
13		15B26066	PLUNGER ASSY., Hydraulic lifter	8
14		15B21319	SOCKET, Push rod, hydraulic tappet	8
15		LW-14018	TUBE ASSY., Push rod shroud	8
16		LW-13565	SPRING, Shroud tube	8
17		LW-13618	SPACER, Shroud tube	8
18		66728	WASHER, 25/32 ID x 1-1/4 OD x .03 thick	8
19		70310	SEAL, Shroud tube	16

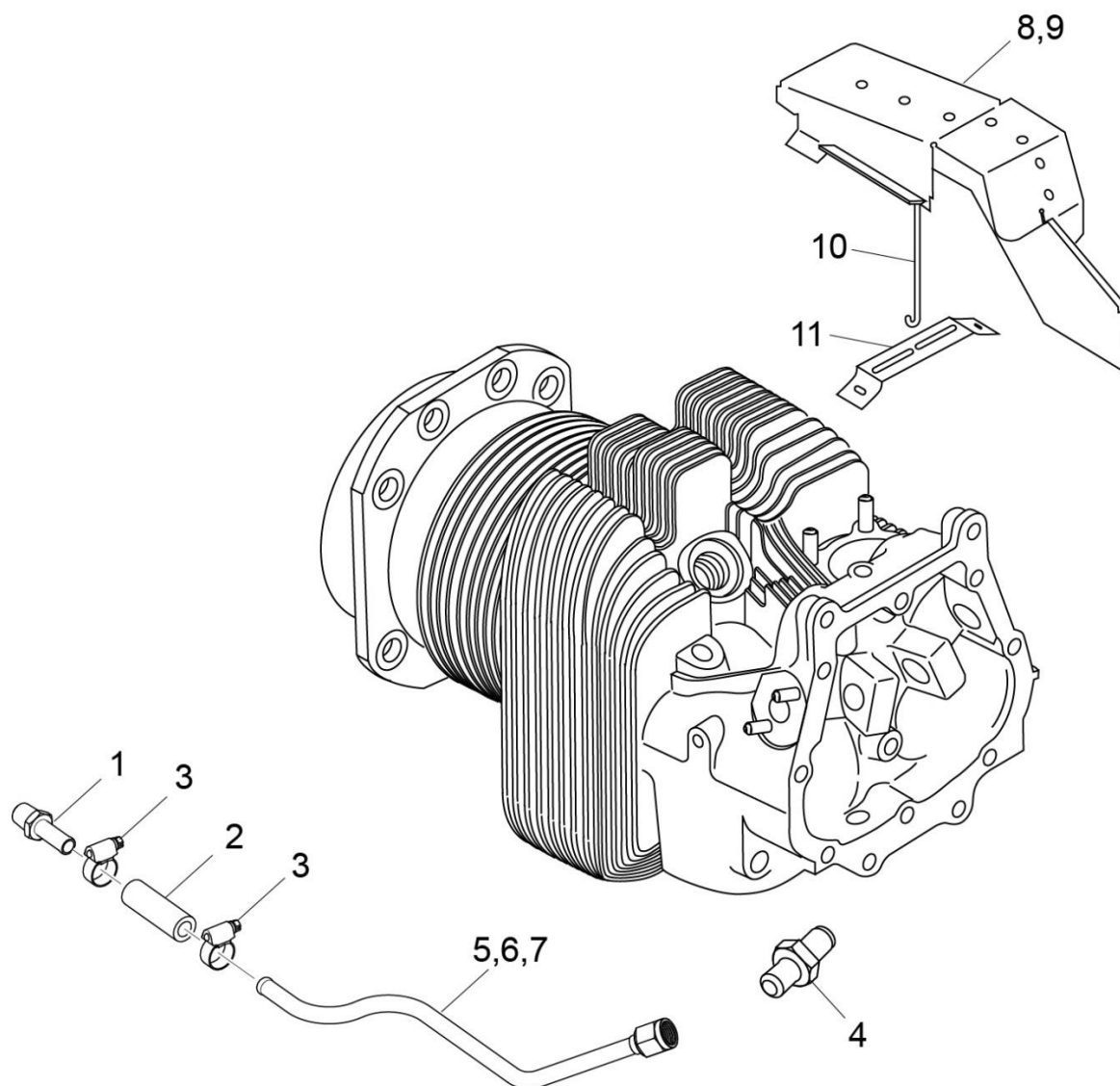


Figure 13
Cylinder Head Drain Tubes, Intercylinder Cooling Baffles, and Rocker Box Covers

CYLINDER SECTION**Figure 13 - Cylinder Head Drain Tubes, Intercylinder Cooling Baffles, and Rocker Box Covers**

Figure Item	Code	Part Number	Description	Units per Assembly
1		STD-684	NIPPLE, Straight, 3/8 I.D hose	4
2		STD-1821	HOSE, 3/8 I.D. x 1-13/16 long	4
3		LW-15592-5-04	CLAMP, Hose	8
4		STD-1223	NIPPLE, 3/8 tube x 1 /4 NPT	4
5		LW-13976	TUBE ASSY., Cyl. head oil drain, cyl. no. 1	1
6		LW-13977	TUBE ASSY., Cyl. head oil drain, cyl. no. 2	1
7		LW-13978	TUBE ASSY., Cyl. head oil drain, cyls. no. 3 and 4	2
8		LW-14833	BAFFLE ASSY , Intercylinder	1
9		LW-15695	BAFFLE ASSY., Intercylinder, no. 1 and 3 cyls.	1
10		71610	HOOK, Intercylinder baffle retainer	2
11		71611	RETAINER, Intercylinder baffle	2

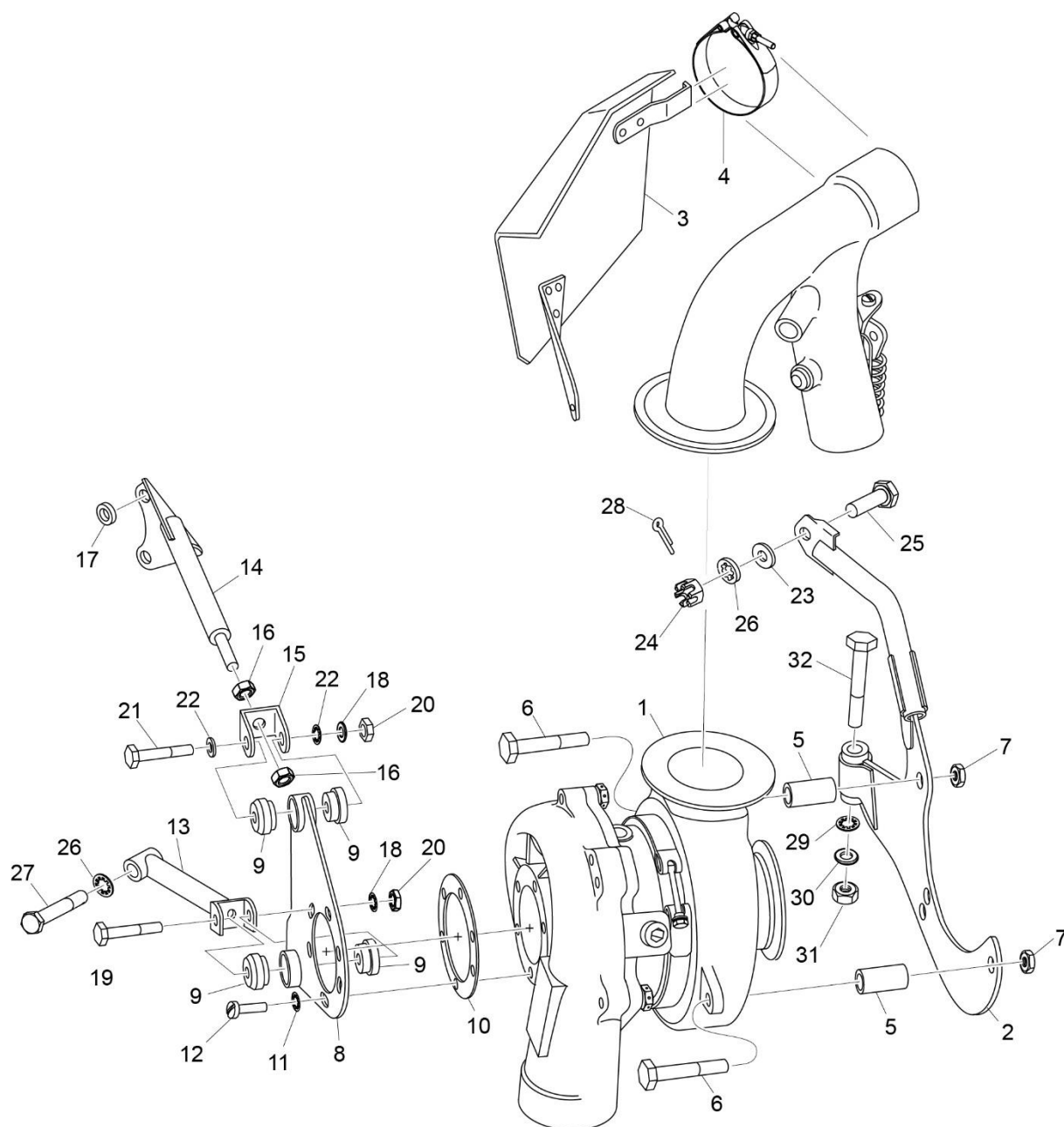


Figure 14
Turbocharger, Support, and Attaching Parts

TURBOCHARGER SYSTEM**Figure 14 – Turbocharger, Support, and Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		46A21184	TURBOCHARGER, 3BT5EE10J2-600700	1
2		LW-16757	BRACKET, Turbo	1
3		LW-14017	BAFFLE, Turbo	1
4		LW-15592-8-28	CLAMP, Hose	1
5		LW-16760	SPOOL, Turbo (bracket to turbo attaching)	2
		LW-16760-1	SPOOL, Turbo (bracket to turbo attaching)	2
		LW-16760-2	SPOOL, Turbo (bracket to turbo attaching)	2
6		NAS1005-30A	BOLT, 3/8-24 x 2-1/2 long	2
7		STD-2043	NUT, 5/16-18 self-locking	2
8		LW-18605	MOUNT ASSEMBLY, Turbo compressor inlet	1
		LW-18604	MOUNT, Turbo compressor inlet	1
9		LW-15692	BUSHING, Turbocharger mount	4
10		LW-13476	GASKET, Turbocharger compressor inlet	2
11		STD-28	WASHER, No. 10 plain	6
12		STD-82	SCREW, 10-24 x 1/2 long	6
13		LW-13957	STRUT, Turbocharger, lower rear	1
14		07F23147	STRUT ASSEMBLY, Turbocharger	1
15		LW-18603	SUPPORT, Bushing, turbo strut	1
16		STD-596	NUT, 3/8-24 plain	2
17		LW-15555	SPACER, Turbo strut	1
18		STD-160	WASHER, 1/4 internal lock	2
19		LW-25-150	BOLT, 1/4-20 x 1-1/2 long, hex. hd.	1
20		STD-1411	NUT, 1/4-20 plain	2
21		LW-25-1.75	BOLT, 1/4-20 x 1-3/4 long	1
22		STD-2201	WASHER, 1/4 plain	2
23		STD-35	WASHER, 5/16 plain	1
24		STD-1420	NUT, 5/16-18 slotted	1
25		LW-31S-1.25	BOLT, 5/16-18 x 1-1/4 long, hex. Head	1

TURBOCHARGER SYSTEM**Figure 14 – Turbocharger, Support, and Attaching Parts Cont**

26		STD-475	WASHER, 5/16 internal lock	1
27		LW-31-1.31	BOLT, 5/16-18 x 1-5/16 long, hex. hd.	1
28		MS9245-27	PIN, Cotter, 1/16 dia. x 5/8 long	1
29		STD-8	WASHER, 1/4 plain	1
30		STD-160	WASHER, 1/4 internal lock	1
31		STD-1411	NUT, 1/4-20 plain	1
32		LW-25-2.69	BOLT, 1/4-20 x 2-11/16 long, hex. hd.	1

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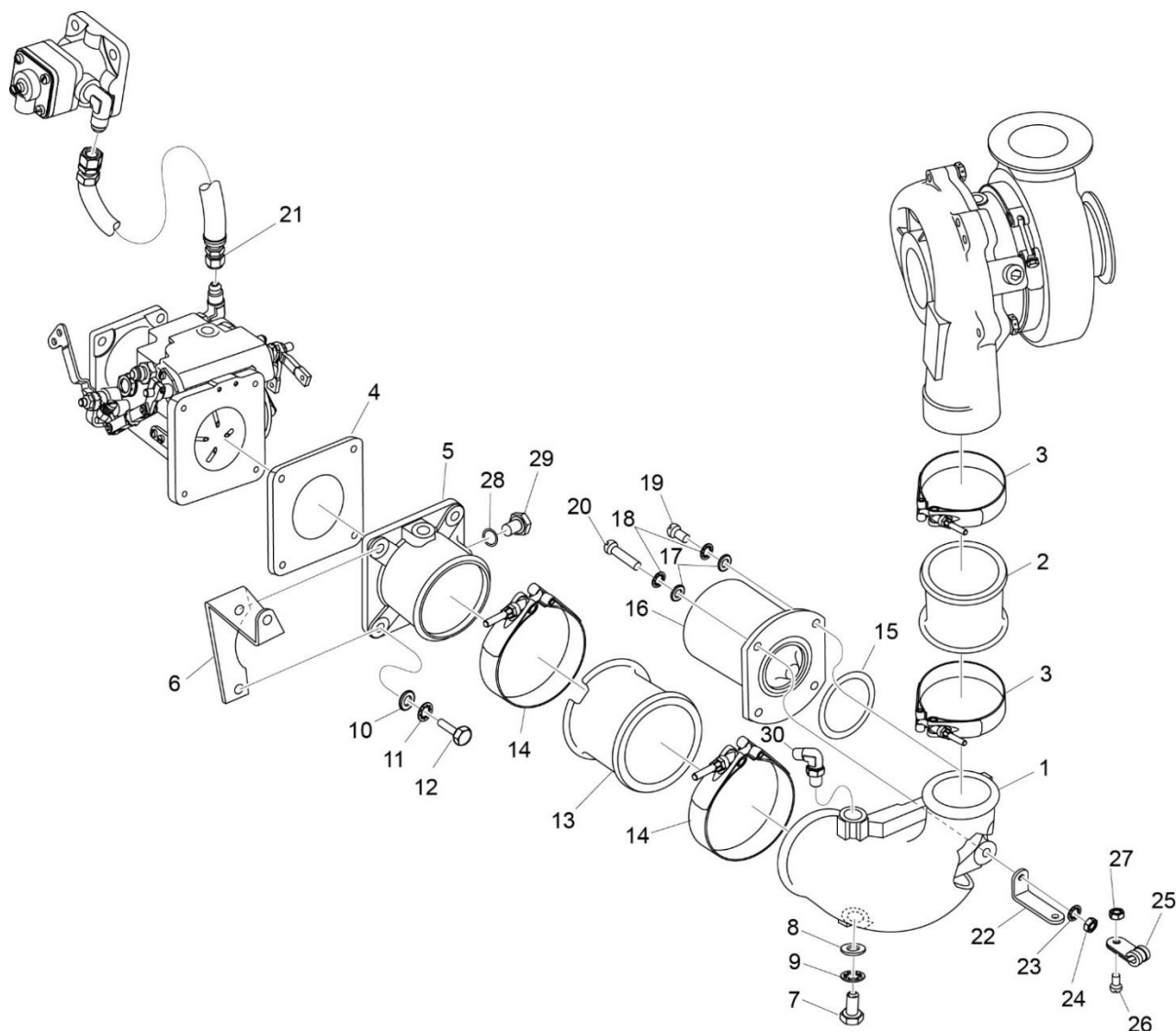


Figure 15
Turbocharger Hoses, Duct, and Related Parts

TURBOCHARGER SYSTEM**Figure 15 – Turbocharger Hoses, Duct, and Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-14488	DUCT, Air inlet	1
2		LW-15490	HOSE, 2 1/4 I.D. x 2-5/8 long	1
3		LW-15858-62-269	CLAMP, T-Bolt	2
4		77504	GASKET, Fuel injector	1
5		LW-18941	ADAPTER, Fuel injector inlet	1
6		LW-18942	BRACKET, Injector linkage	1
7		LW-38-0.59	BOLT, 3/8-16 x 19/32 long, hex. head	1
8		STD-33	WASHER, 3/8 plain	1
9		STD-678	WASHER, 3/8 lock, internal teeth	1
10		STD-8	WASHER, 1/4 plain	2
11		STD-160	WASHER, 1/4 lock, internal teeth	4
12		LW-25-0.81	BOLT, 1/4-20 x 13/16 long, hex. head	4
13		LW-15859	HOSE, 3.00 I.D. x 2-1/2 long	1
14		LW-15858-62-350	CLAMP, T-Bolt	2
15		MS29513-138	O-Ring, 2-7/64 I.D. x 3/32 section	1
16		LW-14445-3	VALVE ASSY., Absolute pressure relief	1
17		STD-425	WASHER, #10 plain	4
18		STD-251	WASHER, #10 lock, internal teeth	4
19		STD-2248	SCREW, #10-24 x 5/8 long, fill. head	3
20		AN500-10-18	SCREW, #10-24 x 1-1/8 long, fill. head	1
21		LW-12877-6S-066	HOSE ASSY., 3/8 Hose, 90 degree elbow	1
22		LW-14724	BRACKET, Angle, 90 degree	1
23		STD-251	WASHER, #10 internal lock	1
24		AN365-1024	NUT, 3/16-24 UNJC-3B, self-locking, Hex	1
25		LW-16266-25-25	CLAMP, One Wire	1
26		STD-860	SCREW, #10-32 x 5/8 long, fill. hd.	1
27		STD-670	LOCKNUT, #10-32	1
28		MS29512-4	O RING, 5/64 dia. section x 11 /32 I.D.	1
29		AN814-4L	PLUG & BLEEDER, 7/16-20 UNF-DR	1

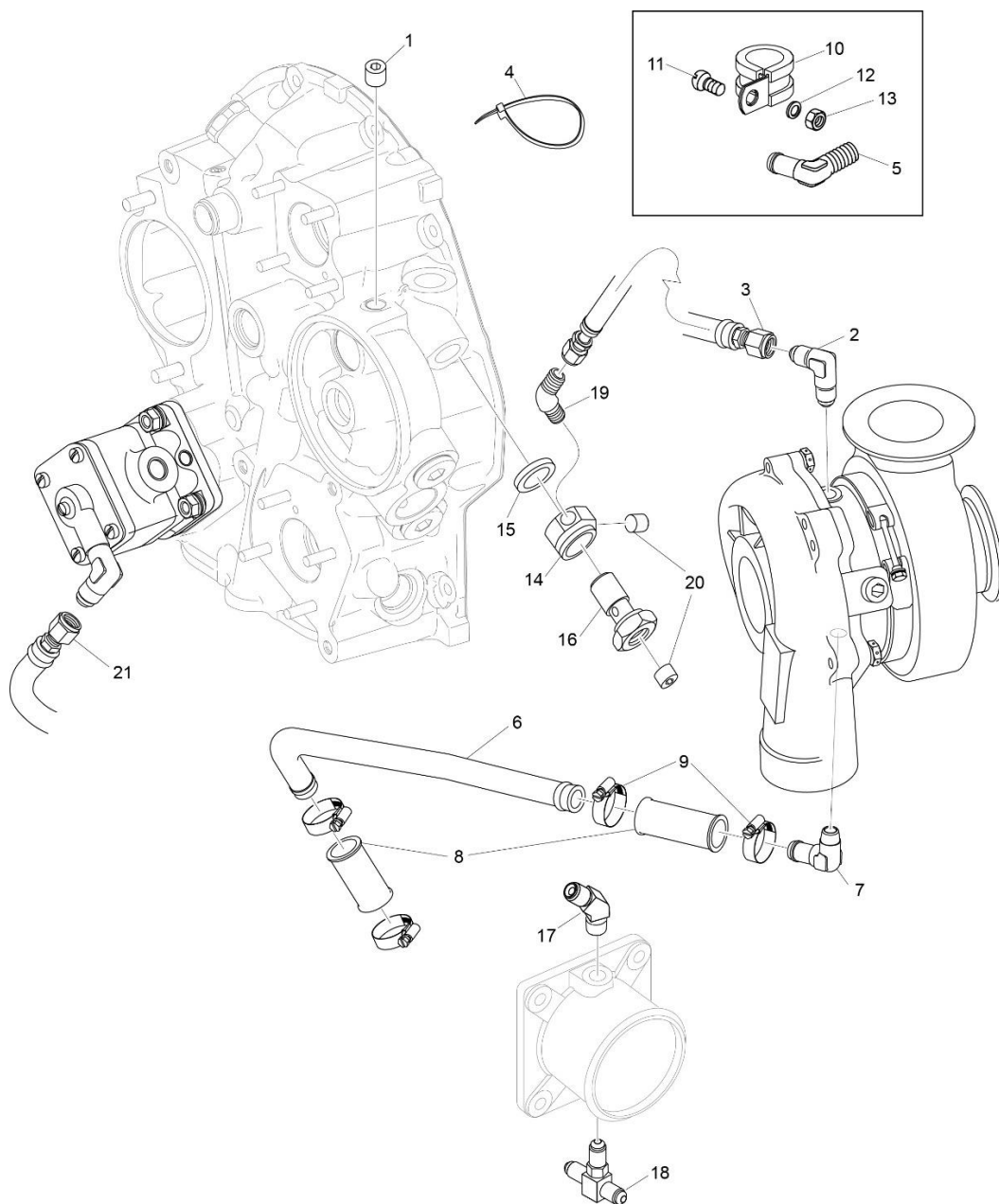


Figure 16
Turbocharger Hardware and Related Parts

TURBOCHARGER SYSTEM**Figure 16 – Turbocharger Hardware and Related Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1	*	1102	PLUG, 1/8 NPT, Allen head	1
2		MS20823-4	ELBOW, 45 Deg., 1/8 NPT to 1/4 fl. tube	
3		LW-12798-4S095	HOSE ASSY., 1/4 Hose, straight	1
4	**	76734	ZIP STRAP	1
5		LW-18977	ELBOW, 5/8 I.D. hose x 1/2 NPT, 45°	1
6		02P21177	TUBE, Turbo oil drain	1
7		LW-16747	ELBOW, 1/2 NPT to 5/8 tube, 90 deg.	
8		LW-14394	HOSE, Turbo oil drain	2
9		LW-15592-8-08	CLAMP, Hose	4
10		LW-16266-10-88	CLAMP, Cushion type	1
11		STD-969	SCREW, #10-32 x 1 /2 long, fill. head	1
12		STD-425	WASHER, #10 plain	1
13		STD-670	LOCKNUT, #10-32	1
14		LW-12056	SPACER, Oil pressure fitting	1
15		AN901-8A	GASKET, Metal tube connect seal	1
16		LW-16012	BOLT, Oil temperature pressure fitting	1
17	□	73944	BYPASS VALVE, 1/4 tube, AFJ, 45 deg.	1
18	●	75948	TEE, 1/4 tube x 7/16 thread	1
19	○	77627	ELBOW, 1 /4 tube x 1 /8 NPT, restricted	1
20	■	1102	PLUG, 1/8 NPT, Allen head	2
21		LW-12798-4S111	HOSE ASSY, 1/4 hose, straight	1
* Assemble in accessory housing above oil filter pad. ** To attach turbo oil inlet hose to top turbo strut. □ Injector inlet adapter for fuel pump vent. ● Injector inlet adapter for nozzle vent. ○ Assemble in LW-12056 spacer. ■ Assemble in LW-12056 spacer and LW-16012 bolt				

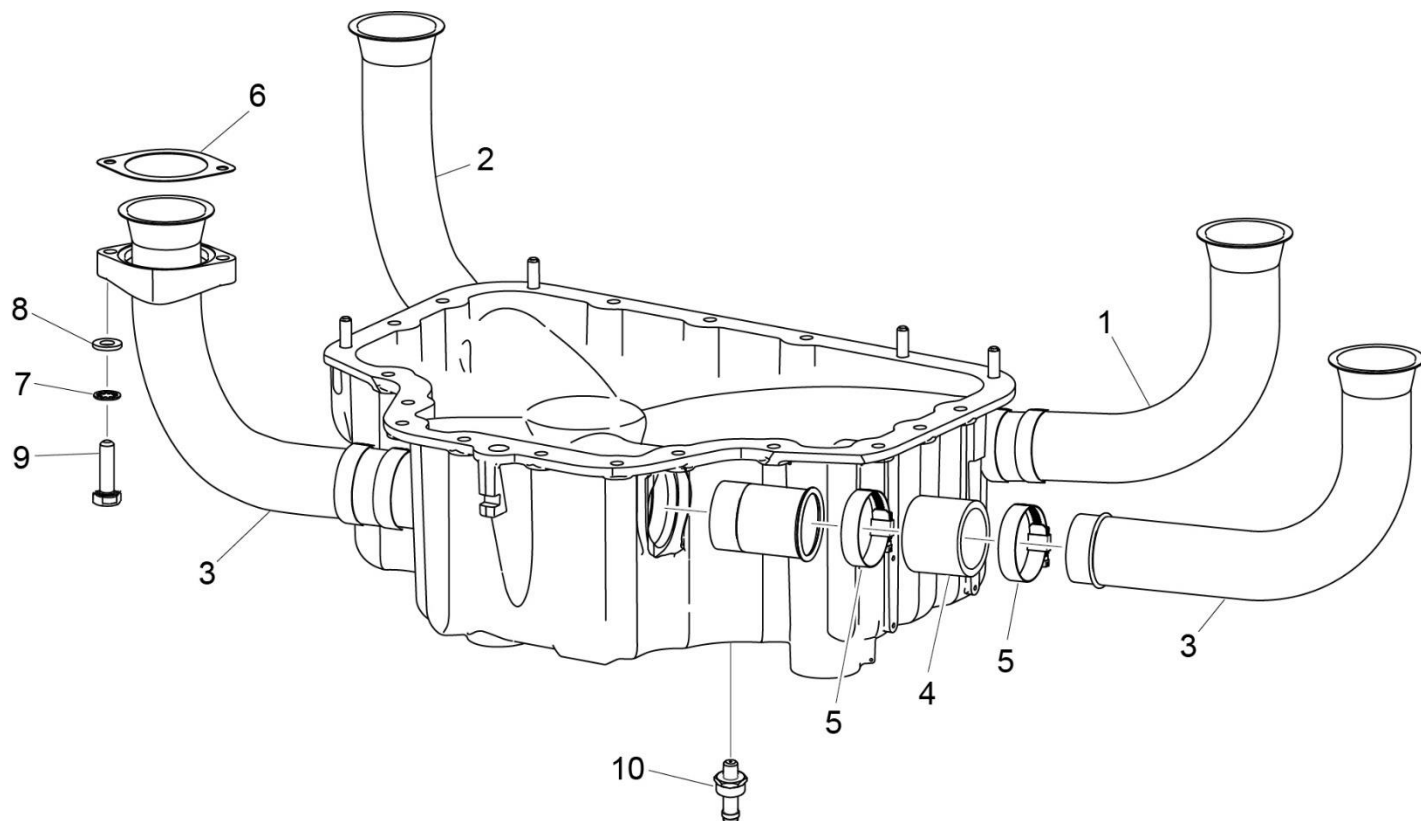


Figure 17
Intake Pipes Assembly

CYLINDER SECTION**Figure 17 – Intake Pipes Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		42E22376	PIPE, Intake, cylinder #1	1
2		42E22377	PIPE, Intake, cylinder #2	1
3		LW-13945	PIPE, Intake, cylinder nos. 3 and 4	2
4		STD-1792	HOSE, 1-3/4 I.D. x 2-3/16 O.D. x 1-3/4 long	4
5		LW-15592-8-28	CLAMP, Hose	8
6		71973	GASKET, 2 bolt flange, 1-7/8 I.D.	4
7		STD-8	WASHER, 1 /4 plain	8
8		STD-160	WASHER, 1/4 lock, internal teeth	8
9		LW-25-1.25	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	8
10		LW-13807	ADAPTER ASSY., Fuel drain valve	2

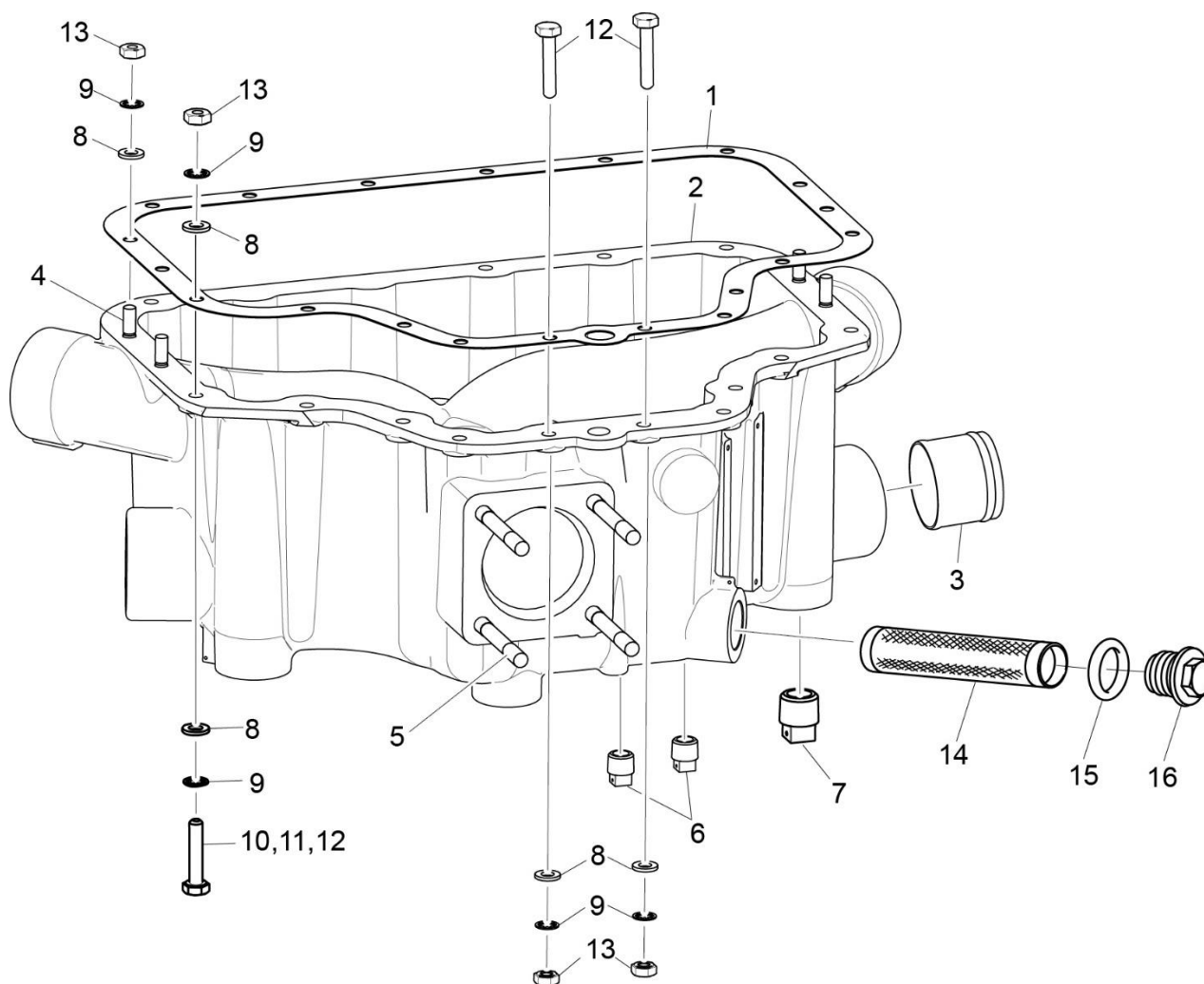


Figure 18
Oil Sump Assembly and Oil Suction Screen

LUBRICATION SYSTEM**Figure 18 – Oil Sump and Oil Suction Screen**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-13353	GASKET, Oil sump	1
2		LW-15796	SUMP ASSEMBLY, Oil	1
		LW-15780	SUMP, Oil	
3		69602	CONNECTION, Intake pipe	4
4		61400	STUD, 1/4-20 x 1-3/16 long	4
5		31C-14	STUD, 5/16-18 x 1-3/4 long	4
6		1102	PLUG, 1/8 Pipe	2
7		STD-551	PLUG, 1/2-14 NPT, square head, drilled	2
8		STD-8	WASHER, 1/4 plain	27
9		STD-160	WASHER, 1/4 lock, internal teeth	20
10		LW-25-0.94	BOLT, 1/4-20 x 15/16 long, hex. head	4
11		LW-25-1.25*	BOLT, 1/4-20 x 1-1/4 long, hex. head	2
12		LW-25-1.13**	BOLT, 1/4-20 x 1-1/8 long, hex. head	4
13		STD-1411	NUT, 1/4-20 plain	18
14		70484	SCREEN, Oil suction	1
15		06E19769-1.00	GASKET, Annular, 1.00 I.D.	1
16		LW-12545	PLUG, 5/8 hex. head x 1.00-20 thread	1

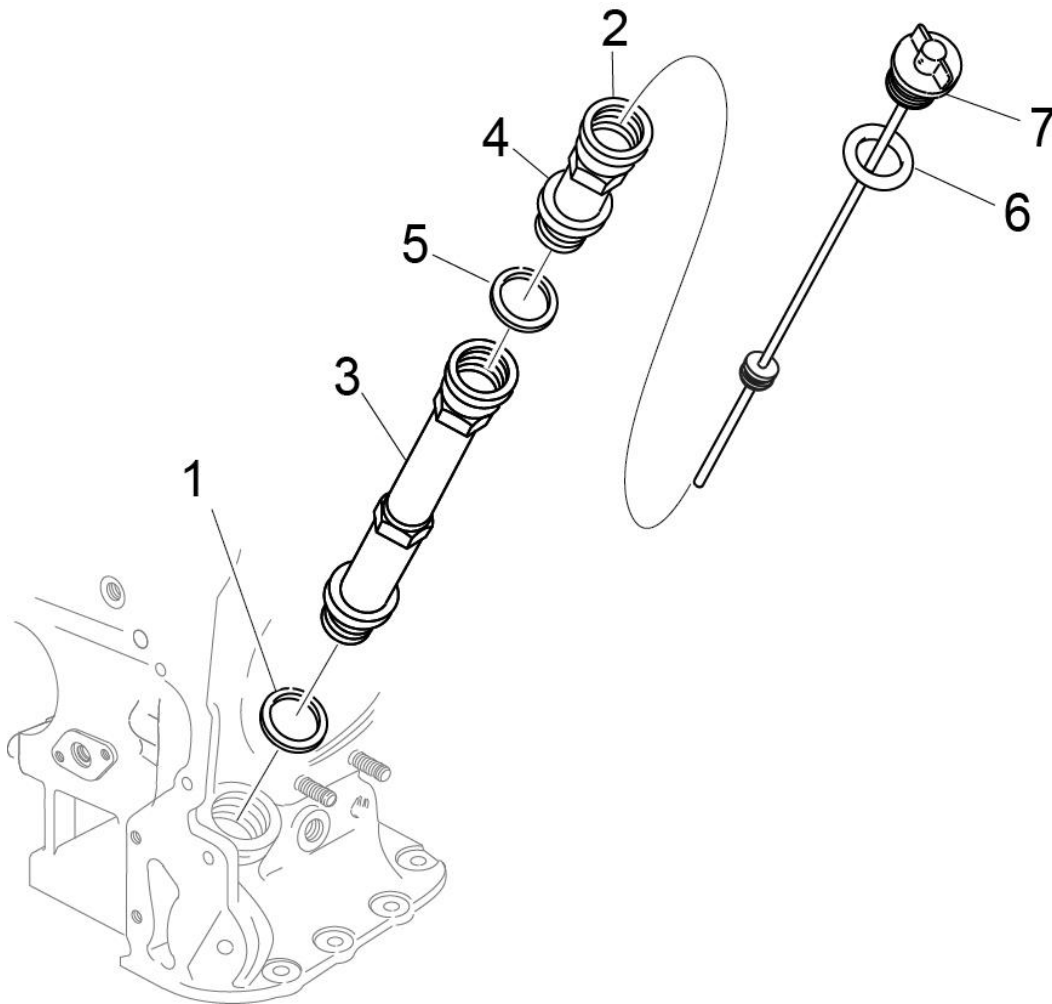


Figure 19
Oil Level Gage

LUBRICATION SYSTEM**Figure 19 – Oil Level Gage**

Figure Item	Code	Part Number	Description	Units per Assembly
1		72059	GASKET, Oil level gage	1
2		LW-12789	TUBE ASSY., Oil level gage (12.81 long)	1
3		75767	TUBE, Oil level gage (10.57 long)	1
4		77527	EXTENSION, Oil filler (2.19 long)	1
5		72220	GASKET, Oil level gage	1
6		72312	RING, Oil seal, 1.00 I.D. x 1 5/16	1
7		LW-14748	GAGE ASSY., Oil level	1

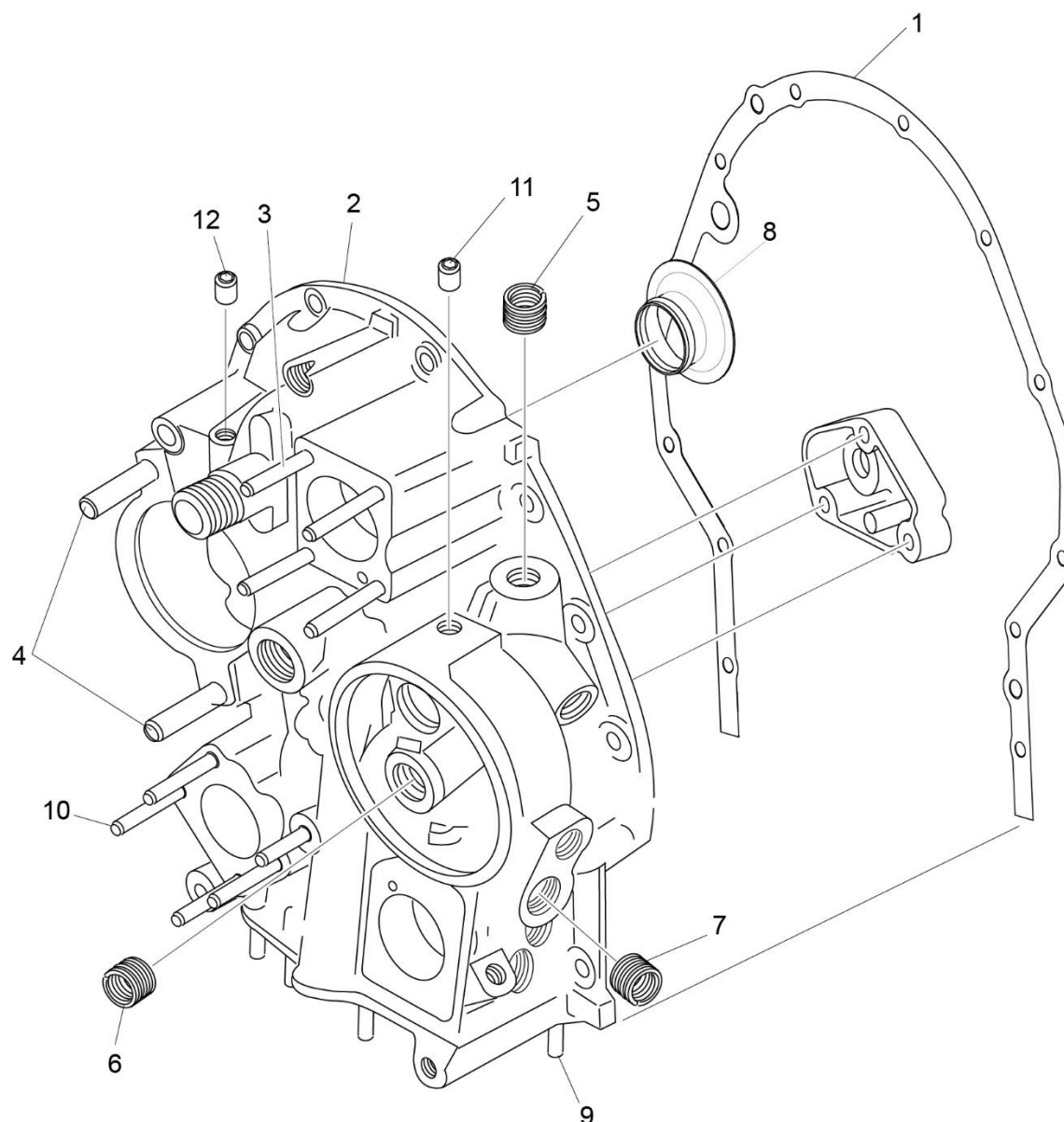


Figure 20
Accessory Housing Assembly

ACCESSORY DRIVES**Figure 20 – Accessory Housing Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		73818	GASKET, Accessory housing	1
2		21B21606	HOUSING ASSEMBLY, Accessory	1
3		25C-12	STUD, 1/4-20 x 1-1/2 long	4
4		31C-13	STUD, 5/16-18 x 1-5/8 long	2
5		LW-12589	INSERT, Heli-coil, 5/8-18 x 3/8 long	1
6		MS124703	INSERT, Heli-coil, 3/4-16 x 1-1/8 long	1
7		LW-10341	INSERT, Heli-coil, 1.00-14 x 3/8 long	1
8		76119	SHIELD, Accessory breather, oil	1
9		75888	STUD, 1/4-20 x 1-1/4 long	6
10		31C-19	STUD, 5/16-18 x 2-3/8 long	4
11		1102	PLUG, 1/8 Pipe	1
12		STD-1339	PLUG, 1/16-27 NPT, Allen head	1

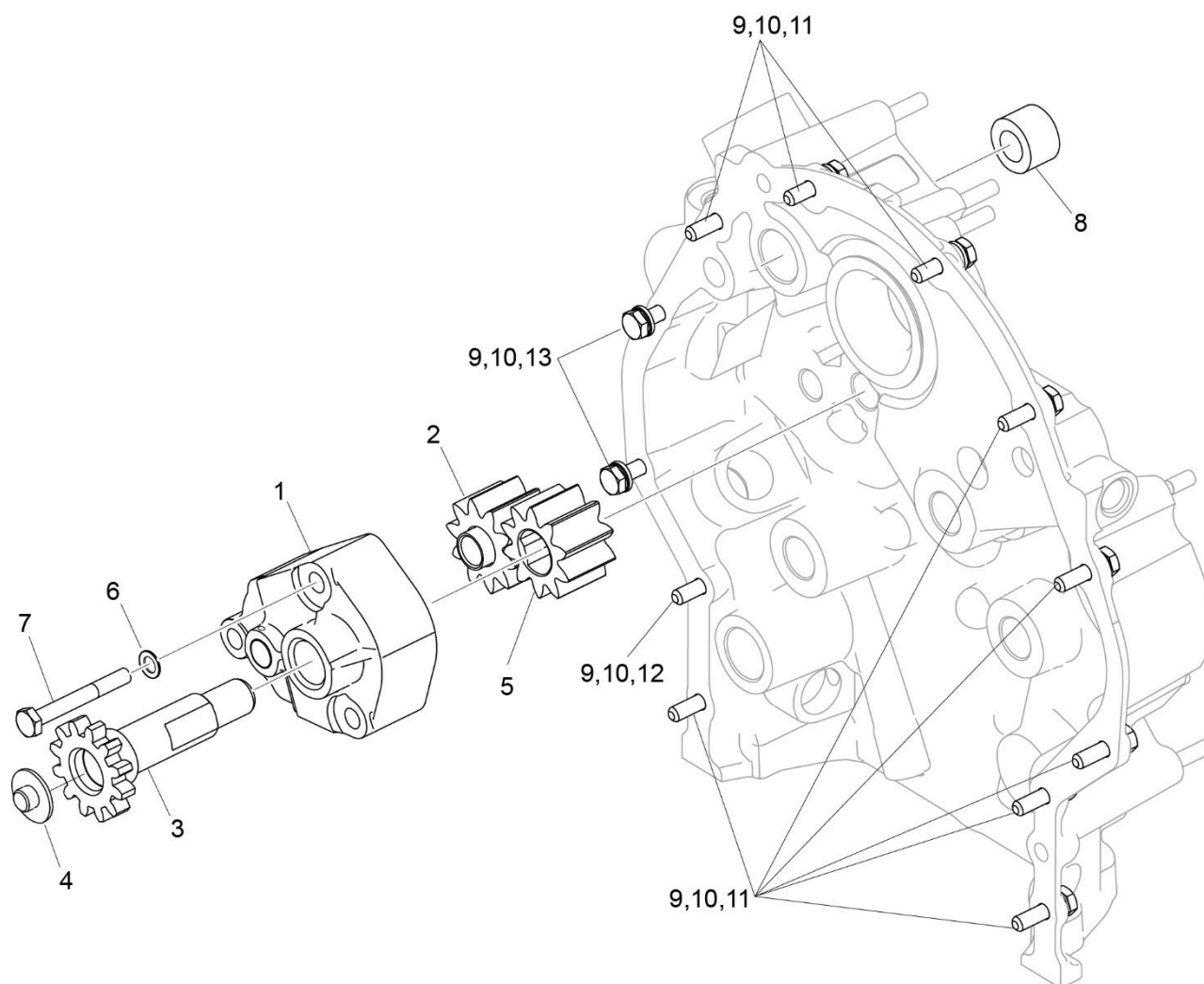


Figure 21
Oil Pump Assembly and Accessory Housing Attaching Parts

ACCESSORY DRIVES**Figure 21 – Oil Pump Assembly and Accessory Housing Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-10342	BODY, Oil pump	1
2	❖	LW-18110	IMPELLER ASSY., Oil pump driven	1
3		LW-14040	GEAR ASSY., Oil pump drive	1
4		61166	THRUST BUTTON, Vacuum pump gear	1
5		LW-18109	IMPELLER, Oil pump driving	1
6		STD-35	WASHER, 5/16 plain	3
7		LW-31H1.75	BOLT, 5/16-18 x 1-3/4 long hex head	3
8		LW-14260	SEAL, Oil, tachometer drive	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 1-1/4 long, hex. head	1
13		LW-25-0.81	BOLT, 1 /4-20 x 13/16 long, hex. head	2
❖ To ensure impellers are replaced together, oil pump impellers available in kit form only.				

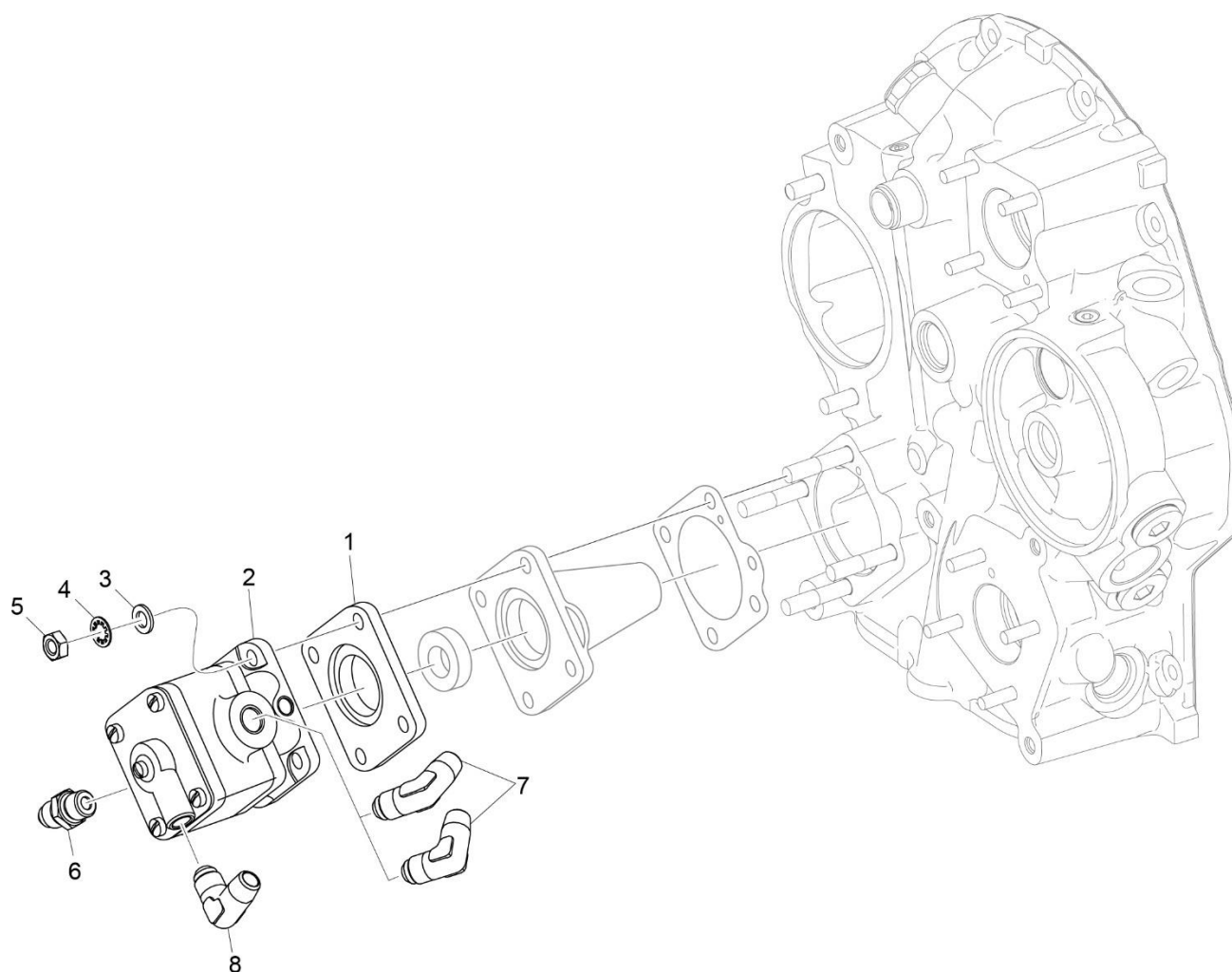


Figure 22
Fuel Pump Assembly and Attaching Parts

ACCESSORY DRIVES**Figure 22 - Fuel Pump Assembly and Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-10799	SPACER, Fuel pump insulating	1
2		62D26035	PUMP, Fuel, HET 201F-5006	1
3		STD-35	WASHER, 5/16 plain	4
4		STD-475	WASHER, 5/16 lock, internal teeth	4
5		STD-1410	NUT, 5/16-18 plain	4
6		AN816-6	NIPPLE, 1/4 ANPT to 3/8 tube	1
7		MS20823-6	ELBOW, 45 degree, 1/4 NPT to 3/8 fl. tube	1
		MS20822-6	ELBOW, 90 degree, 1/4 NPT to 3/8 fl. tube	1
8		02A21376	ELBOW, Fuel pump, vent, restricted	1

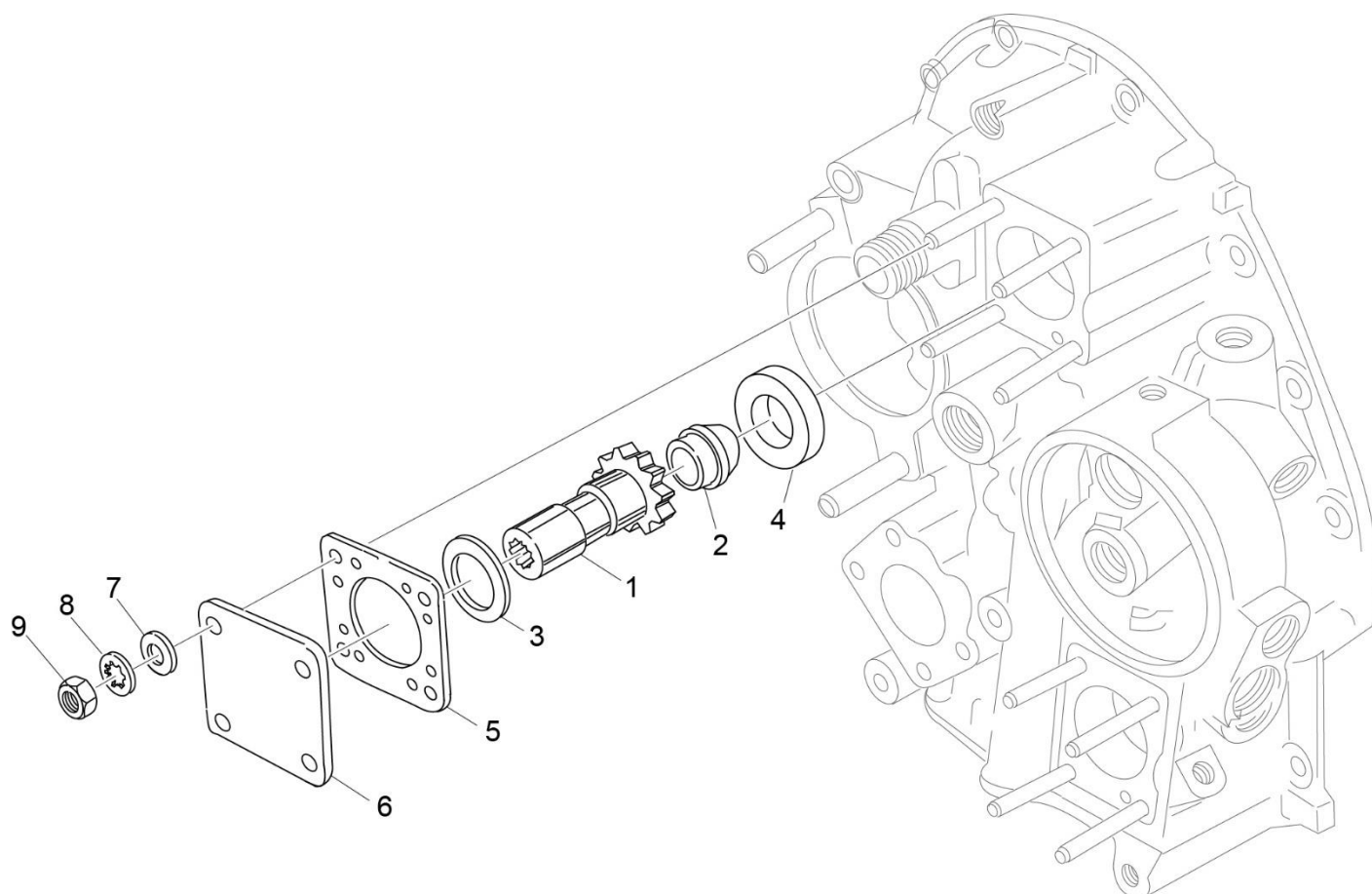


Figure 23
Vacuum Pump Drive and Cover

ACCESSORY DRIVES**Figure 23 – Vacuum Pump Drive and Cover**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-10305	GEAR ASSEMBLY, Accessory driven	1
2		61166	THRUST BUTTON, Vacuum pump gear	1
3		71596	WASHER, Accessory drive gear	1
4		06A19956	SEAL, Oil, 7/8 I.D. x 1-1/2 O.D. x 5/16 wide	1
5		8313	GASKET, Vacuum pump	1
6		60430	COVER, Vacuum pump	1
7		STD-8	WASHER, 1/4 plain	4
8		STD-160	WASHER, 1/4 lock, internal teeth	4
9		STD-1411	NUT, 1/4-20 plain	4

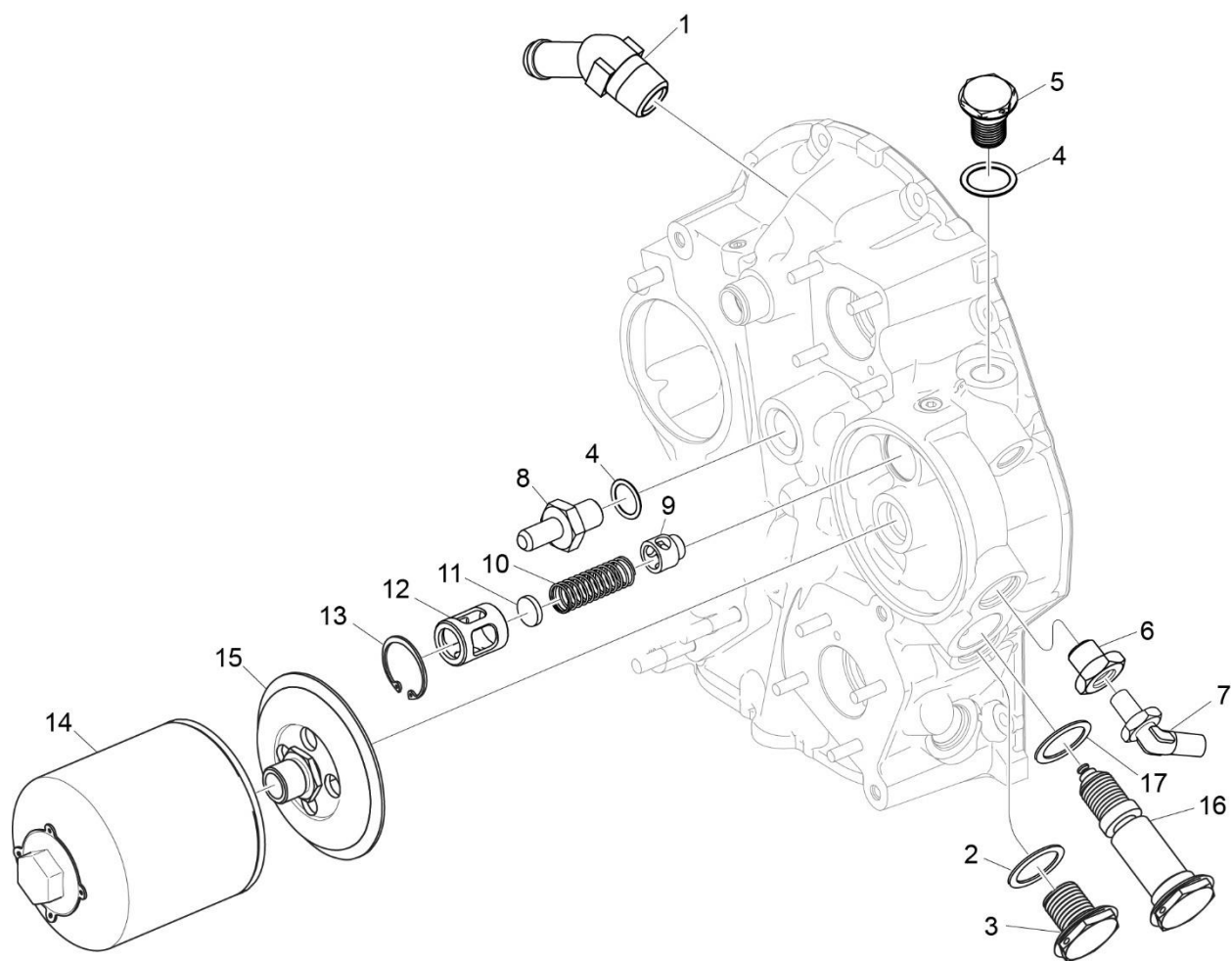


Figure 24
Oil Filter Assembly, Oil Cooler Bypass Valve, and Fittings

ACCESSORY DRIVES**Figure 24 – Oil Filter Assembly, Oil Cooler Bypass Valve, and Fittings**

Figure Item	Code	Part Number	Description	Units per Assembly
1		72413	FITTING, Breather, 120° elbow	1
2		MS29512-10	SEAL, Oil, 3/32 section x 45/64 I.D.	1
3		03C21720	PLUG, 7/8-14 thread	1
4		06E19769-0.63	GASKET, Annular, 5/8 I.D.	1
5		1540	PLUG, Thermometer well	1
6		LW-11999	REDUCER, 7/8-14 to 9/16-18 straight thread	1
7		72377	ELBOW, 3/8 flared tube, adjustable, 90°	1
8		02A19460	NIPPLE, 3/8 tube, 7/8-14 thread	1
9		55K21022	SPACER, Oil filter bypass valve	1
10		05S21021	SPRING, Oil filter bypass valve	1
11		76539	SEAT, Oil relief valve	1
12		LW-10320	SLEEVE, Oil filter bypass valve	1
13		MS16625-1100	RING, Internal retaining, 1.00 diameter	1
14		LW-13906	OIL FILTER, Short, CH48103-1	1
15		54E23093	KIT, Converter plate, oil filter	1
16		53E22144	VALVE ASSY., Temp. control, oil cooler bypass	1
17		76510	GASKET, Valve assembly	1

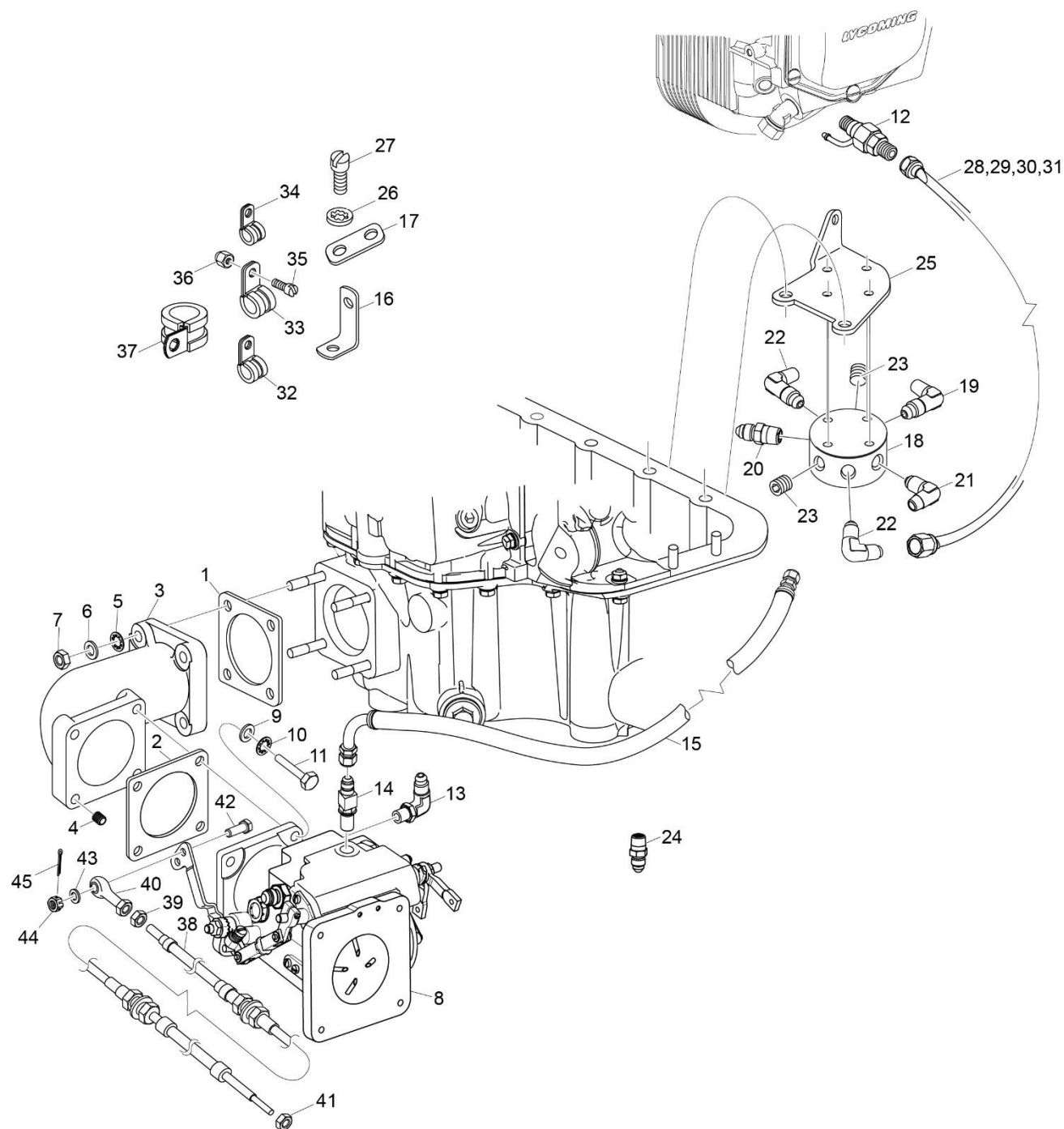


Figure 25
Fuel Injector, Fuel Manifold, and Injection Nozzles

FUEL DISTRIBUTION**Figure 25 – Fuel Injector, Fuel Manifold, and Injection Nozzles**

Figure Item	Code	Part Number	Description	Units per Assembly
1		77154	GASKET, Carburetor	1
2		66224	GASKET, Carburetor	1
3		LW-18939	ADAPTER ASSEMBLY, Fuel injector	1
4		STD-1164	INSERT, 5/16-18 UNC x 5/8 LON	4
5		STD-35	WASHER, 5/16 plain	4
6		STD-475	WASHER, 5/16 lock, internal teeth	4
7		STD-1410	NUT, 5/16-18 plain	4
8		61J26436	INJECTOR, Fuel, LFR-NNSS5, AV2524939-2	1
9		STD-35	WASHER, 5/16 plain	4
10		STD-475	WASHER, 5/16 lock, internal teeth	4
11		LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. head	4
12		63C26453	NOZZLE ASSY, Low 90, (AV2524917-1), one groove on Jet O.D.	4
13		74200	ELBOW, 1/4 tube, 90 degree	1
14		LW-16572	NIPPLE, 1/4 tube to 7/16-20 straight thread	1
15		LW-12876-4S224	HOSE ASSEMBLY, 1/4 hose, 90 deg. elbow	1
16		73136	BRACKET, Extension, fuel injector line	2
17		73152	BRACKET, Support clamp	1
18		63B26728	MANIFOLD ASSEMBLY, Fuel	1
		63B26446	MANIFOLD, Fuel	1
19		MS20822-4	ELBOW, 1/4 tube, 90°	1
20		STD-148	NIPPLE, Union, 1/8 NPT	1
21		AN791-2	ELBOW, Union, 45°, 1/8 tube	1
22		STD-2166	ELBOW, Union, 90°, 1/8 NPT	2
23		1102	PLUG, 1/8-27 NPT, Allen head	2
24		02G21382	NIPPLE, Nozzle pressure gauge	1
25		07A21373	BRACKET, Fuel manifold	1
26		STD-251	WASHER, #10, internal lock	4
27		STD-82	SCREW, No. 10-24 x 1/2 long, fill. head	4

FUEL DISTRIBUTION**Figure 25 – Fuel Injector, Fuel Manifold, and Injection Nozzles Cont**

Figure Item	Code	Part Number	Description	Units per Assembly
28		LW-12098-0-180	TUBE ASSEMBLY, Fuel manifold to nozzle	1
29		LW-12098-0-260	TUBE ASSEMBLY, Fuel manifold to nozzle	1
30		LW-12098-0-210	TUBE ASSEMBLY, Fuel injector line	1
31		LW-12098-0-240	TUBE ASSEMBLY, Fuel injector line	1
32		LW-16266-10-13	CLAMP, 1/8 diameter for #10 screw	10
33		LW-16266-10-38	CLAMP, 3/8 diameter for #10 screw	2
34		LW-16266-10-25	CLAMP, 1/4 I.D. for #10 screw cush.	1
35		STD-860	SCREW, No. 10-32 x 5/8 long, fill. head	6
36		STD-670	LOCKNUT, #10-32	6
37		LW-16266-25-63	CLAMP, 5/8 I.D. x 1/4 dia. screw	1
38		LW-14714	CONNECTOR, Push-pull cable	1
39		MS3650-304	NUT, #10-32 UNF, 2B, plain, SS	1
40		05R19950	ROD END, Female, #10-32	1
41		STD-63	NUT, #10-32 plain	1
42		AN3-7	BOLT, #10-32 UNF x 29/32 long, hex. head	1
43		STD-122	WASHER, #10 plain, 5/16 OD x 1/32	3
44		STD-303	NUT, #10-32 slotted, shear	1
45		STD-68	PIN, 1/16 diameter x 1/2 long	1

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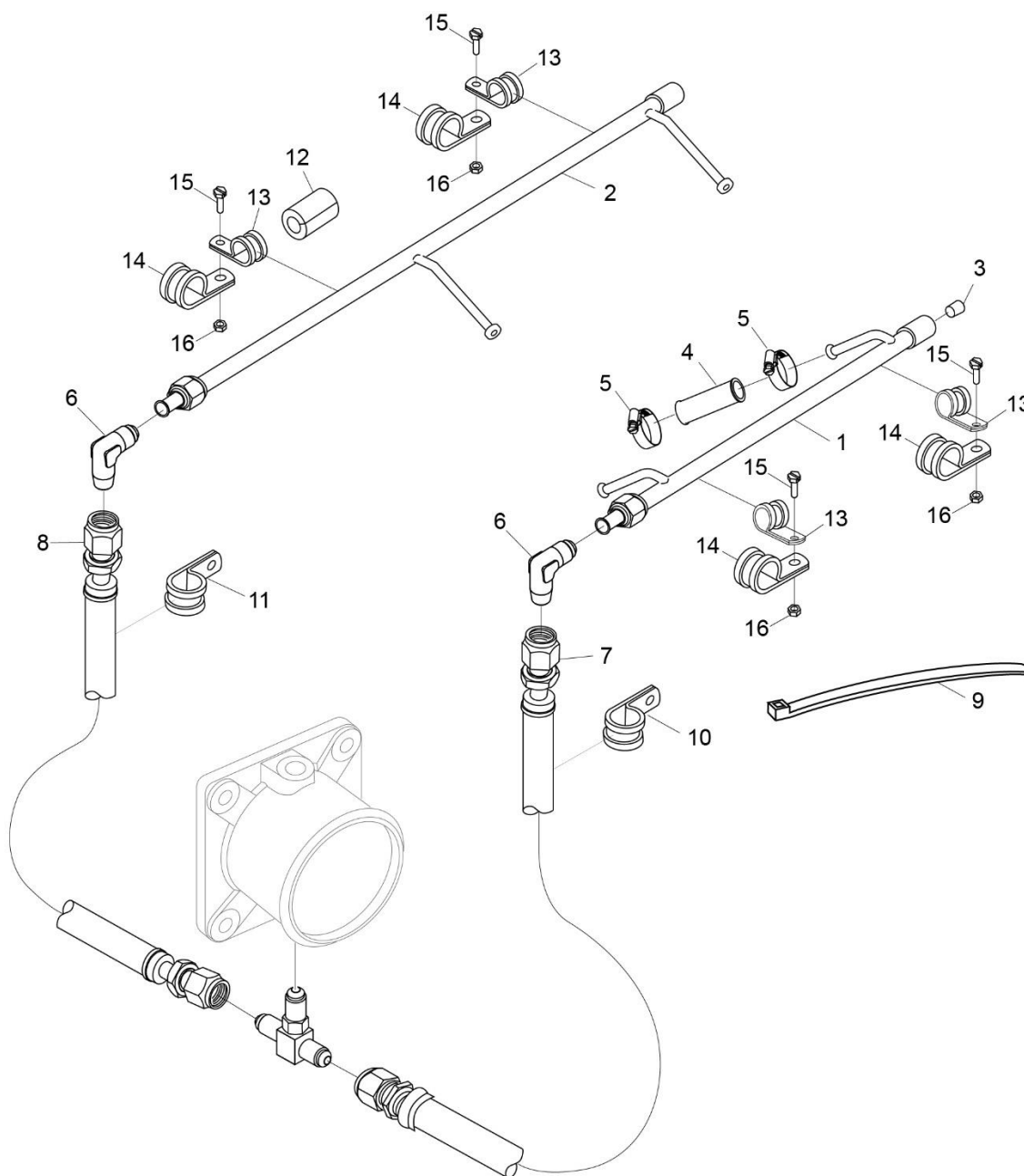
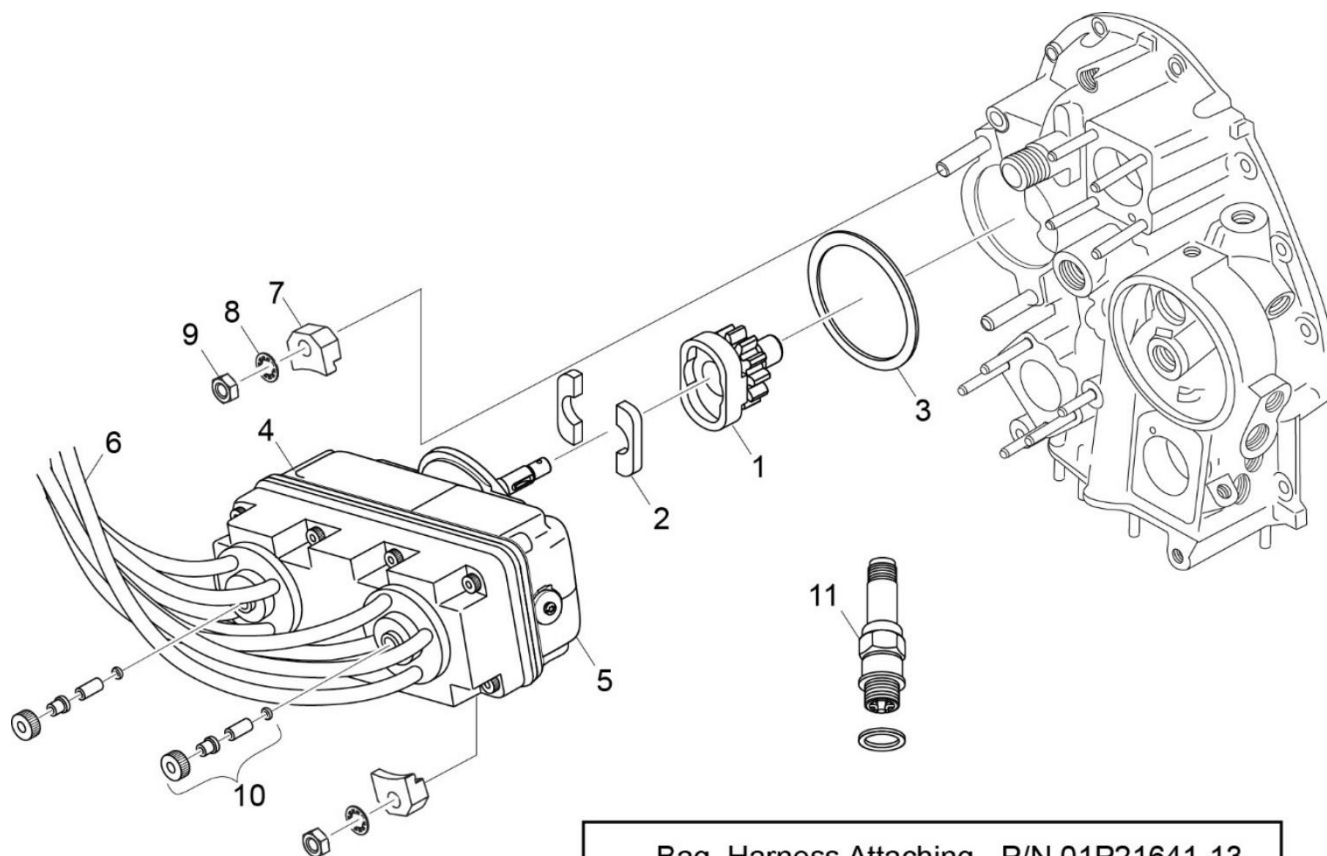


Figure 26
Nozzle Vent Manifolds and Attachments

FUEL DISTRIBUTION**Figure 26 – Nozzle Vent Manifolds and Attachments**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-18961	MANIFOLD, Right, injector nozzle vent	1
2		LW-18962	MANIFOLD, Left, injector nozzle vent	1
3		STD-1339	PLUG, 1 /16-27 NPT	2
4		LW-18724	HOSE, 3/16 I.D. x 7 /16 O.D. x 2-7 /8 long	4
5		LW-15592-5-03	CLAMP, 7/16 O.D. hose	8
6		MS51505B4S	ELBOW. 1/4 tube (90°) on vent tube end	2
7		LW-12798-4S160	HOSE ASSY., Right nozzle vent to housing tee	1
8		LW-12798-4S274	HOSE ASSY , Left nozzle vent to housing tee	1
9		76734	ZIP STRAP	2
10		LW-16266-10-63	CLAMP, 5/8 I.D. x #10 screw	1
11		LW-16266-25-63	CLAMP, 5/8 I.D. x 1/4 dia. Screw	1
12		STD-1930	HOSE, Left nozzle vent line	1
13		LW-16266-10-25	CLAMP, 1/4 I.D. for #10 screw cush.	4
14		LW-16266-10-38	CLAMP, 3/8 dia. For #10 screw	4
15		STD-860	SCREW,	4
16		STD-670	LOCKNUT,	4



Bag, Harness Attaching - P/N 01P21641-13		
Part No.	Name	Qty.
10-400051-2	Clip	2
10-400054-1	Clip	2
10-400053-2	Clip	2
10-620013	Band	25
10-320163	Grommet	2
10-620039-2	Plate-Spark Plug Cable-4 Wire	4

Figure 27
Magnetos, Magneto Drives, Harnesses, and Spark Plugs

IGNITION DISTRIBUTION**Figure 27 – Magnetos, Magneto Drives, Harnesses, and Spark Plugs**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-13643	GEAR, Retainer, magneto drive	1
2		68H22624	CUSHION, Magneto drive	2
3		LW-12681	GASKET, Magneto	1
4		66E21569	MAGNETO, Ignition system, 10-785124-118	1
5	•	LW-682555-13	MAGNETO, Ignition	1
6		67H21454	HARNESS ASSY, TCM 10-821414-10	1
7		66M19385	CLAMP, Magneto	2
8		STD-475	WASHER, 5/16 lock, internal teeth	2
9		STD-1410	NUT, 5/16-18 plain	2
10		LW-382698	KIT, Magneto ground terminal V/	2
11	*	1182-H7	SPARK PLUG, (Champion RHB-37E)	8
	**	01P21641-13	BAG, Harness attaching	1
• See latest revision of Lycoming Service Instruction No. 1443 for complete listing of approved magnetos. * Refer to the latest revision of Lycoming Service Instruction No. 1042 for complete listing of all approved spark plugs. ** See Figure for a breakdown of individual parts contained in the harness attaching parts bag. These parts to be attached by customer per engine line drawing included in each bag.				

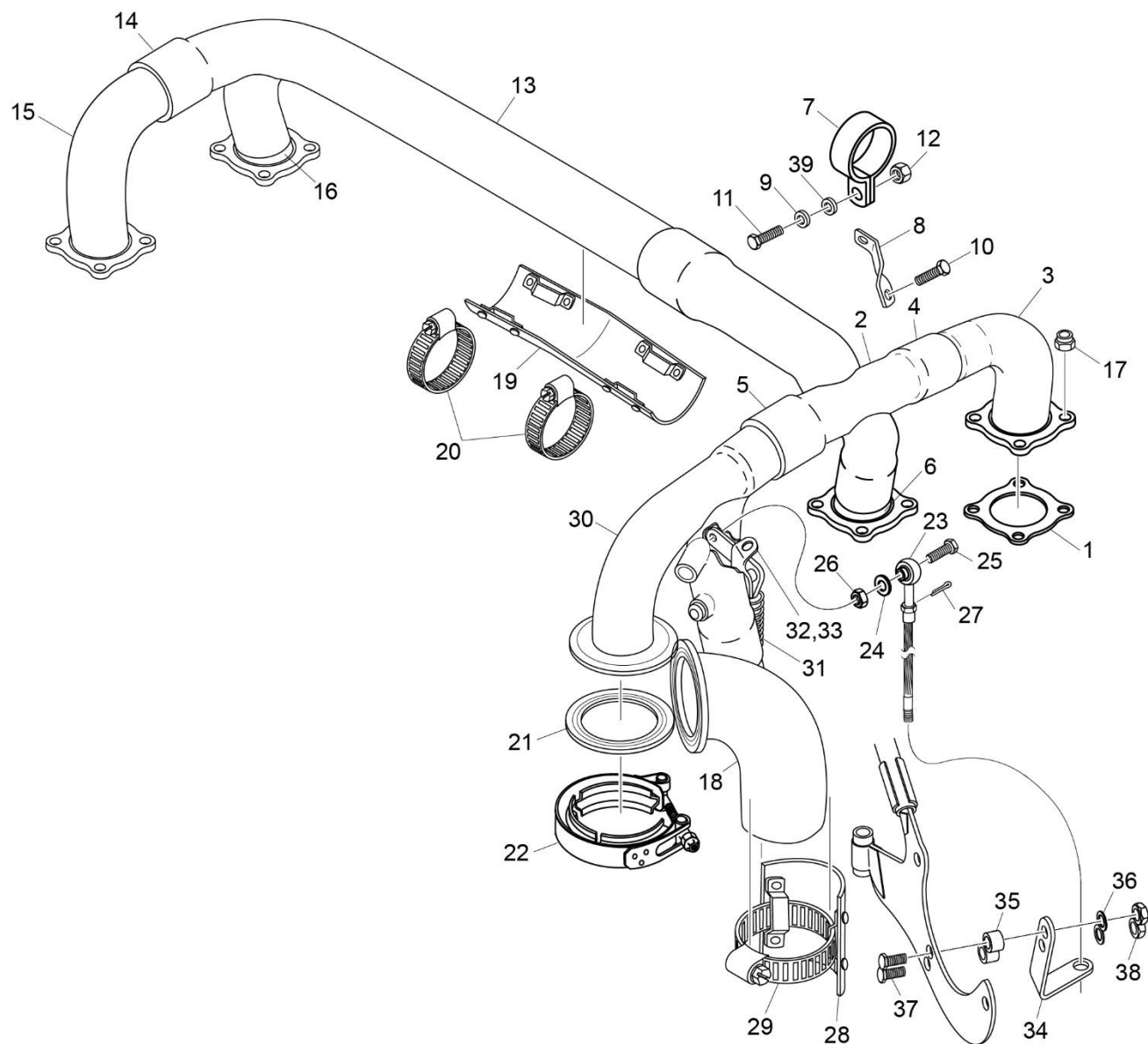


Figure 28
Exhaust Manifolds and Transition Assembly

EXHAUST SYSTEM**Figure 28 – Exhaust Manifolds and Transition Assembly**

Figure Item	Code	Part Number	Description	Units per Assembly
1		LW-13938	GASKET, Exhaust flange	8
2		LW-15691	MANIFOLD ASSY., Exhaust, right	1
3		LW-14001	PIPE, Exhaust, cylinder no. 1	1
4		LW-15689	PIPE, Exhaust, cylinder no. 3	1
5		LW-15690	PIPE, Exhaust, intermediate	1
6		LW-11400	ADAPTER, Exhaust pipe	1
7		LW-16222	CLAMP, Exhaust pipe	1
8		LW-18095	STRAP, Exhaust pipe	1
9		STD-160	WASHER, 1 /4, lock, internal teeth	1
10		LW-25-0.50	BOLT, 1/4-20x 1/2 long, hex hd.	1
11		LW-25-0.63	BOLT, 1/4-20 x 5/8 long, hex hd.	1
12		STD-2044	NUT, 1 /4-20, self-locking	1
13		LW-13998	MANIFOLD ASSY., Exhaust, left	1
14		LW-14002	PIPE, Exhaust, cylinder no. 2	1
15		LW-14004	PIPE, Exhaust, cylinder no. 4	1
16		LW-11400	ADAPTER, Exhaust pipe	1
17		STD-2044	NUT, 1/4-20 self-locking	16
18		LW-19347	PIPE, Exhaust, tail	1
19		LW-13997	SHIELD, Heat	1
20		LW-15592-8-24	CLAMP, Hose	2
21		LW-14485	GASKET, Turbocharger inlet	2
22		LW-13464	CLAMP, 3-11/16 diameter, "V" Band	2
23		LW-15765	ROD END, 10-32 (stainless steel)	1
24		AN960C-10L	WASHER. #10 (stainless steel)	3
25		AN3C-7	BOLT, 10-32 (stainless steel)	1
26		AN320-C3	NUT, 10-32 (stainless steel)	1
27		STD-68	PIN, Cotter, 1 /16 x 1 /2 long	1
28		LW-18947	SHIELD, Heat, exhaust pipe	1

EXHAUST SYSTEM**Figure 28 – Exhaust Manifolds and Transition Assembly Cont**

Figure Item	Code	Part Number	Description	Units per Assembly
29		LW-15592-8-36	CLAMP	1
30		LW-16863	TRANSITION AND WASTEGATE ASSY	1
31		LW-13671	SPRING, Wastegate	1
32		AN501-10-12	SCREW, 10-32 x 3/4 long, fill. head	1
33		STD-63	NUT, 10-32 plain	1
34		LW-13991	SUPPORT, Linkage control	1
35		LW-16759	SPACER, Support, linkage control	2
36		STD-160	WASHER, 1 /4 internal lock	2
37		LW-25-1.25	SCREW, 1/4-20 x 1-1/4 long, hex. head	2
38		STD-1411	NUT, 1/4-20 plain	2
39		STD-8	WASHER, 1/4 plain	1

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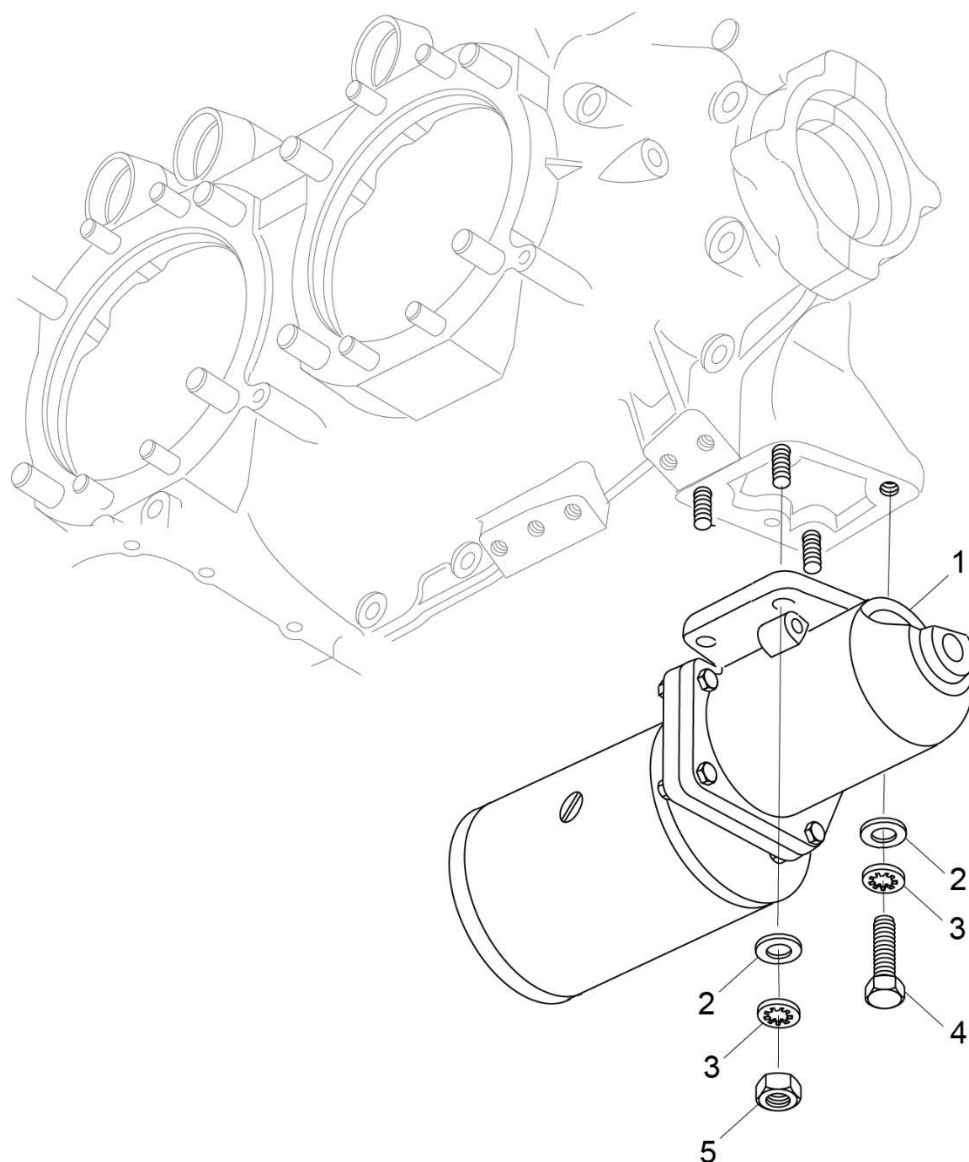


Figure 29
Starter Attaching Parts

CRANKING**Figure 29 - Starter Attaching Parts**

Figure Item	Code	Part Number	Description	Units per Assembly
1		31B26040	STARTER ASSY, Kelly ERB-8011, 24 volt, 12/14 pitch	1
2		STD-35	WASHER, 5/16 plain	4
3		STD-475	WASHER, 5/16 lock, internal teeth	4
4		LW-31-1.16	BOLT, 5/16-18 x 1-5/32 long, hex. hd.	1
5		STD-1410	NUT, 5/16-18 plain	3

NOTE: See latest revision of Lycoming Service Instruction No. 1154 for complete listing of FAA approved starters and alternators.

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SERVICE KIT SECTION**Seal and Gasket Set**

PART NO.	PART NAME	Qty.
75439-1	SEAL AND GASKET SET	1
AN901-8A	GASKET, Metal tube connect seal	1
LW-10332	LOCKPLATE, Crankshaft gear	1
LW-12272	LOCKPLATE, Shroud tube	4
LW-12681	GASKET, Magneto	2
06B23862	GASKET, Oil filter adapter	1
LW-13353	GASKET, Oil sump	1
LW-13792 ❖	SEAL, Crankshaft oil	1
LW-14260	SEAL, Tachometer drive oil	1
LW-14995	SPRING, Shroud tube	4
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-18661	SEAL, Shroud tube	8
STD-475	WASHER, 5/16 lock, internal teeth	4
STD-213	SEAL, Oil	1
06A19956	SEAL, Oil	1
06E19769-0.63	GASKET	2
06E19769-1.00	GASKET	1
06E19769-1.25	GASKET	1
1691-C	GASKET, Fuel pump	1
60096	GASKET, Fuel pump	1
61173	GASKET, Oil pressure housing	1
61183	GASKET, Accessory adapter	1
62224	GASKET, Magneto adapter	3
66224	GASKET, Fuel injector	2
68315	GASKET, Accessory drive adapter	1
69164	GASKET, Fuel pump adapter	1
69345	SPACER	4
69551	GASKET, Accessory drive adapter	1
70310	SEAL, Shroud tube	8
70455	GASKET	1
71481	RING, Oil seal	4
71973	GASKET, 2 bolt flange	4
72053	GASKET, Governor	2
72059	GASKET, Oil level gage	1
72075	SEAL, Oil	6
72078	LOCKPLATE	2
72091	RING, Oil seal	2
72220	GASKET, Oil level gage	1

Seal and Gasket Set (Cont.)

PART NO.	PART NAME	Qty.
72312	RING, Oil seal	1
72829	LOCKPLATE	1
73383	LOCKPLATE	2
73817	LOCKPLATE	2
73818	GASKET, Accessory housing	1
74065	RING, Oil level gage seal	1
74068	RING, Oil level gage plug	1
06B26669	GASKET, Rocker box cover (Silicone)	4
76510	GASKET, Oil cooler by-pass valve	1
76940	SEAL, Crankshaft oil	1
77154	GASKET, Carburetor	1
77611	GASKET, Exhaust flange	4
8313	GASKET, Vacuum pump	1
77569	RING, Seal, intake pipe	4
MS29512-04	O-RING, 0.351 I.D. x 0.072 section	1
06A23493	SEAL, Shroud tube	8
SSP-115	STICKER	1
❖ Refer to latest revision of Lycoming Service Instruction No. 1324 for application.		

Cylinder, Piston and Ring Assembly

PART NO.	PART NAME	Qty.
05K21104	KIT – CYLINDER, PISTON AND RING ASSEMBLY	1
16G30080-0101	CYLINDER AND HEAD ASSEMBLY	1
14D23912	PISTON	1
74241	RING, Piston, compression	2
14H29884	RING, Piston, oil regulating	1
LW-14078	PIN, Piston	1
71481	RING, Oil seal	1
LW-18661	SEAL, Shroud tube	2
70310	SEAL, Shroud tube	2
06A23493	SEAL, Shroud tube	2
06B26669	GASKET, Rocker box cover (Silicone)	1
72198	PLUG, Piston pin	2
77611	GASKET, Exhaust flange	1
71973	GASKET, 2 bolt	1
LW-12272	LOCKPLATE, Shroud tube	1
1102	PLUG	2
SSP-115	STICKER	1
SSP-299	TAG	1

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07A21156	BRACKET	3
07A21157	BRACKET	3
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07A26130	BRACKET	3
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07F23268	STRUT	1
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1102	PLUG	41
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1102	PLUG	55
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