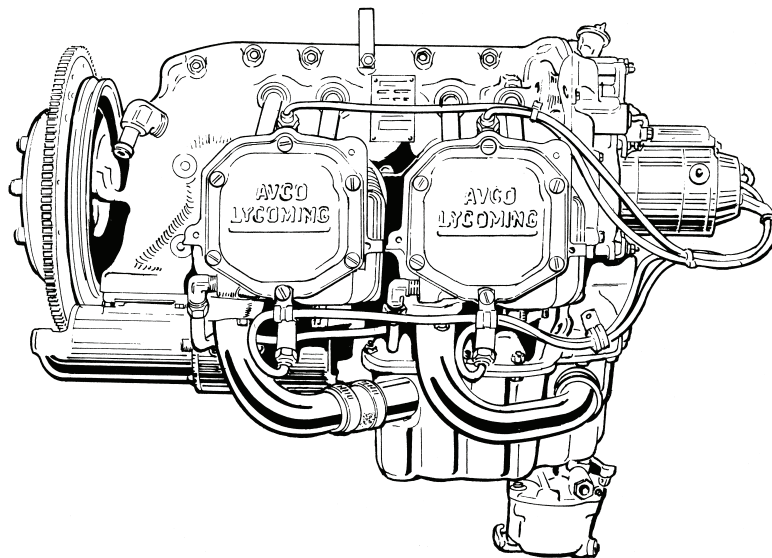


Lycoming Aircraft Engines Parts Catalog



O-235 Series

LYCOMING

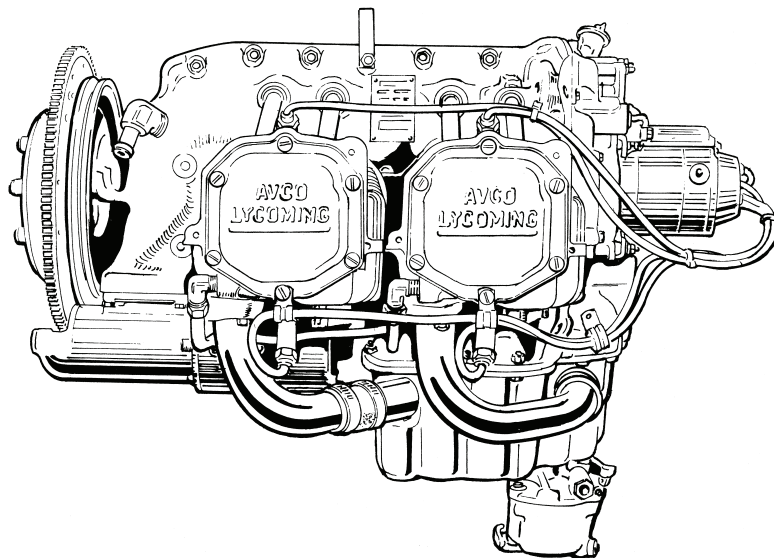
Lycoming

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TECHNICAL PUBLICATION REVISION

REVISION No. PC-302B	ENGINE MODEL O-235 Series	PUBLICATION No. PC-302	PUBLICATION DATE June, 1982
The page(s) furnished herewith are intended to replace the corresponding page(s) of the publication indicated above.			
Remove		Insert	
June, 1982 2-13, 3-1, 3-2		January, 1987 2-13, 3-1, 3-2	

Lycoming Aircraft Engines Parts Catalog



O-235 Series

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INTRODUCTION

NOTE

This Parts Catalog supersedes PC-102 dated August, 1973 and PC-202 dated March, 1978.

This illustrated parts catalog contains a complete parts listing for the Lycoming O-235 series aircraft engines. For use in expediting of parts when ordering, the serial number and model designation are stamped on the engine nameplate located on the oil sump.

The Group Assembly Section lists major assemblies and sub-assemblies in general sequence of engine build-up. The "Quantity Per Assembly" column indicates the number required at that particular location only and is not to be construed to mean quantity for the complete engine. When the symbol "un" is listed, it means to use quantity as necessary.

The Service Kit Section provides listings for seal and gasket sets and cylinder, piston and ring assemblies for use in ordering parts as necessary during overhaul.

The Numerical Index is provided for convenience in finding parts when only the part number is known.

In the Oversize and Undersize Parts section, procurable oversize and undersize parts are listed preceding the main group assembly parts list.

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

SERVICE BULLETINS, INSTRUCTIONS AND LETTERS

Although the information contained in this parts catalog is up-to-date at time of publication, users are urged to keep abreast of later information through all Lycoming distributors or from the factory by subscription. Consult the latest edition of Service Letter No. L114 for subscription information.

NOTE

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

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

O-235 SERIES

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Oversize and Undersize Parts Listing

PART NO.	DESCRIPTION	OVERSIZE					UNDERSIZE		
		P05	P10	P15	P20	P30	M03	M06	M10
61681	GUIDE, Valve intake	X	X		X	X			
LW-11626	GUIDE, Valve	X	X		X	X			
66796	INSERT, Spark plug		X						
69796	DOWEL, Crankshaft bearing	X							
60814	BUSHING, Propeller flange	X	X	X	X				
73757	BUSHING, Propeller flange	X	X	X	X				
61258	SEAT, Intake valve (Alum Bronze)		X		X	X			
LW-11900	SEAT, Intake valve (steel) Allison		X		X	X			
LW-16800	SEAT, Intake valve (solid)		X		X	X			
60337	SEAT, Exhaust valve (solid)		X		X	X			
LW-16699	SEAT, Exhaust valve, Allison		X		X	X			
68763	BEARING, Crankshaft						X	X	X
LW-13884	BEARING, Crankshaft, front						X	X	X
61533	BEARING, Crankshaft, right front						X	X	X
61520	BEARING, Crankshaft, left front						X	X	X
69373	BEARING, Connector rod						X	X	X

Studs available in P03, P07 and P12 oversize.

NOTE

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

O-235 SERIES PARTS CATALOG

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ASSEMBLY

FIG. REF. 1	PART NUMBER	DESCRIPTION	O N A L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	78213 *	CRANKCASE ASSEMBLY		1	1		1																				
	78214 **	CRANKCASE ASSEMBLY		1	1	1	1	1																			
	LW-11631**	CRANKCASE ASSEMBLY							1	1		1	1	1													
	LW-13257 **	CRANKCASE ASSEMBLY								1																	
	LW-13282 **	CRANKCASE ASSEMBLY								1				1	1		1	1									
	LW-16354 **	CRANKCASE ASSEMBLY														1											
	LW-18735 **	CRANKCASE ASSEMBLY					1																				
2	61182	STUD, 3/8-24 x 10-15/64 long		2	2	2	2	2		2																	
3	74124	STUD, 3/8-16 x 9-11/16 long		4	4	4	4	4		4																	
4	38-12	STUD, 3/8-16 x 1-1/2 long		24	24	24	24	24		24																	
5	31C-12	STUD, 5/16-18 x 1-1/2 long	4																								
	31C-12	STUD, 5/16-18 x 1-1/2 long					2																				
6	LW-11623	STUD, 7/16-20 x 10-7/16 long							2	2		2	2	2	2	2	2	2	2	2							
7	LW-11622	STUD, 7/16-14 x 9-25/32 long							4	4		4	4	4	4	4	4	4	4	4							
8	44-13	STUD, 7/16-14 x 1-5/8 long							8	8		8	8	8	8	8	8	8	8	8							
9	38-13	STUD, 3/8-16 x 1-5/8 long							16	16		16	16	16	16	16	16	16	16	16							
10	31C-13	STUD, 5/16-18 x 1-5/8 long					1																				
11	STD-557	DOWEL, 1/2 dia. x 19/32 long,																									
		hollow	2																								
12	STD-514	DOWEL, 5/16 dia. x 1/2 long	2																								
13	69796	DOWEL, Crankshaft bearing																2									
14	1102	PLUG, 1/8-27 NPT, Allen		4	4		4																				
	1102	PLUG, 1/8-27 NPT, Allen	3																								
15	STD-1111	ELBOW, 3/4 pipe & hose 90°							1	1		1	1	1	1	1	1	1	1	1							
16	61584	VALVE, Hydraulic		1																							
17	61531	GASKET, Hydraulic valve		1	1		1																				
18	61583	COVER ASSY., Hydraulic valve		1																							
19	LW-14260	SEAL, Oil		1																							
20	61227	LEVER, Hydraulic valve		1																							
21	STD-131	SCREW, 1/4-28 x 1.00 long,																									
		hex hd. dr.		1																							
22	STD-43	NUT, 1/4-28 Slotted shear		1																							
23	STD-68	PIN, Cotter, 1/16 x 1/2 long		1																							
24	STD-160	WASHER, 1/4 lock		2	2		2																				
25	STD-8	WASHER, 1/4 plain		2	2		2																				
26	STD-1875	BOLT, 1/4-20 x 13/16 long		2	2		2																				
27	61555	PLUG, Hydraulic valve hole		1	1		1																				
28	61554	COVER, Hydraulic valve hole plug		1	1		1																				

* Used with controllable pitch propeller.

** Used with fixed pitch propeller.

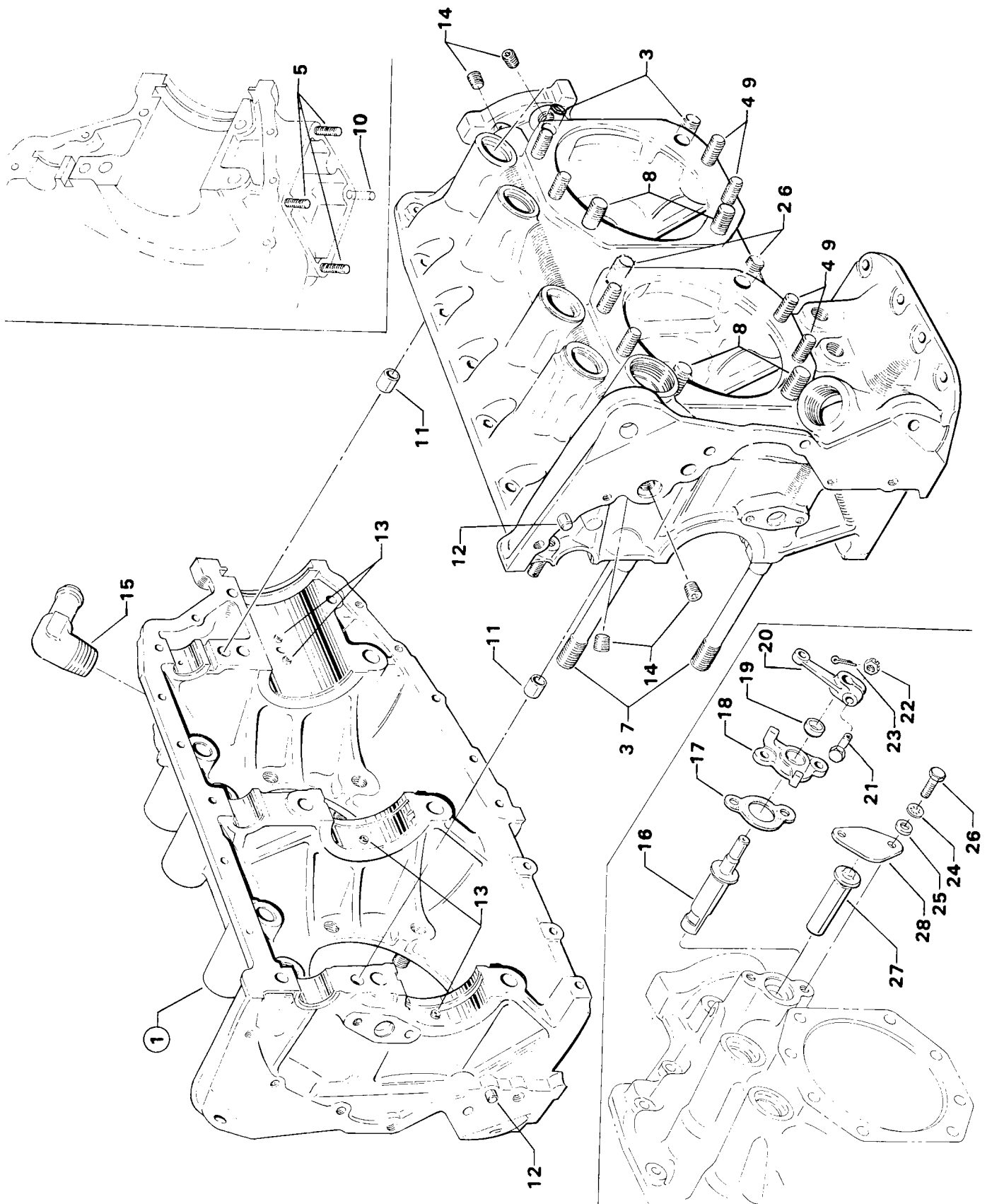
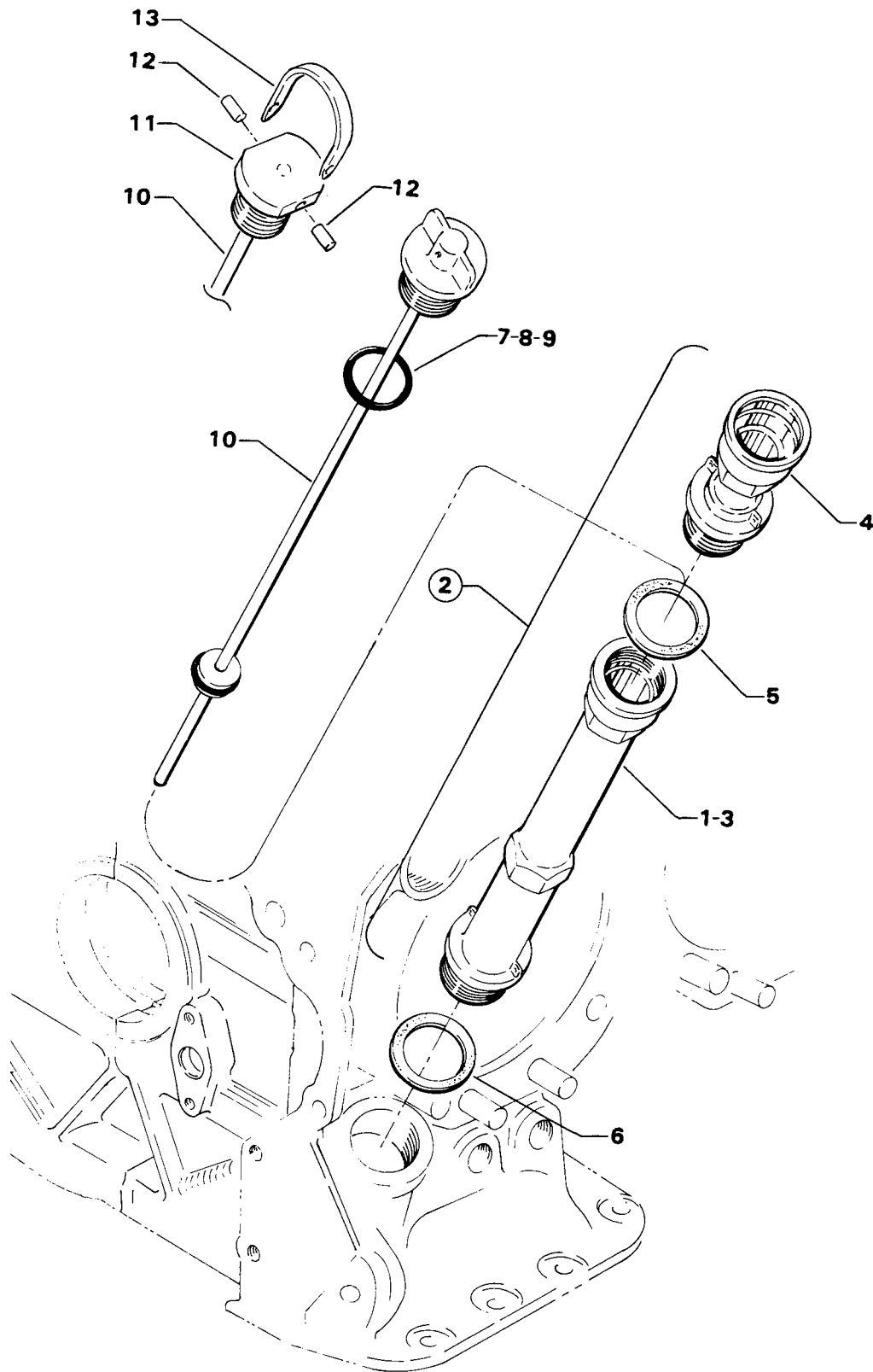


Figure 1. Crankcase Assembly

O-235 SERIES PARTS CATALOG

OIL LEVEL GAGE ASSEMBLIES

1-3



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Figure 2. Oil Level Gage Assemblies

O-235 SERIES PARTS CATALOG

CRANKSHAFT, CAMSHAFT AND RELATED PARTS

[illegible]

** Used with fixed pitch propeller.

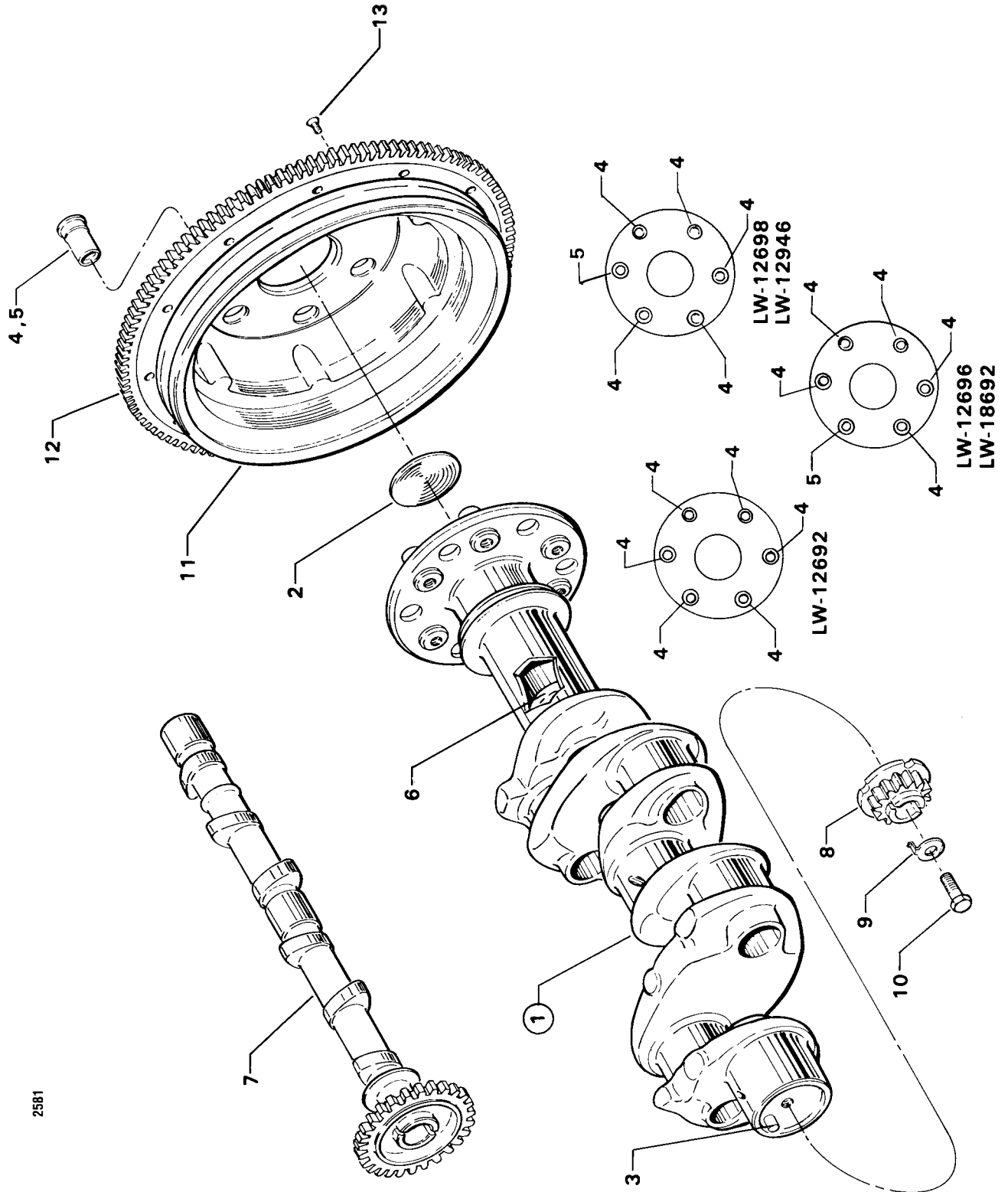
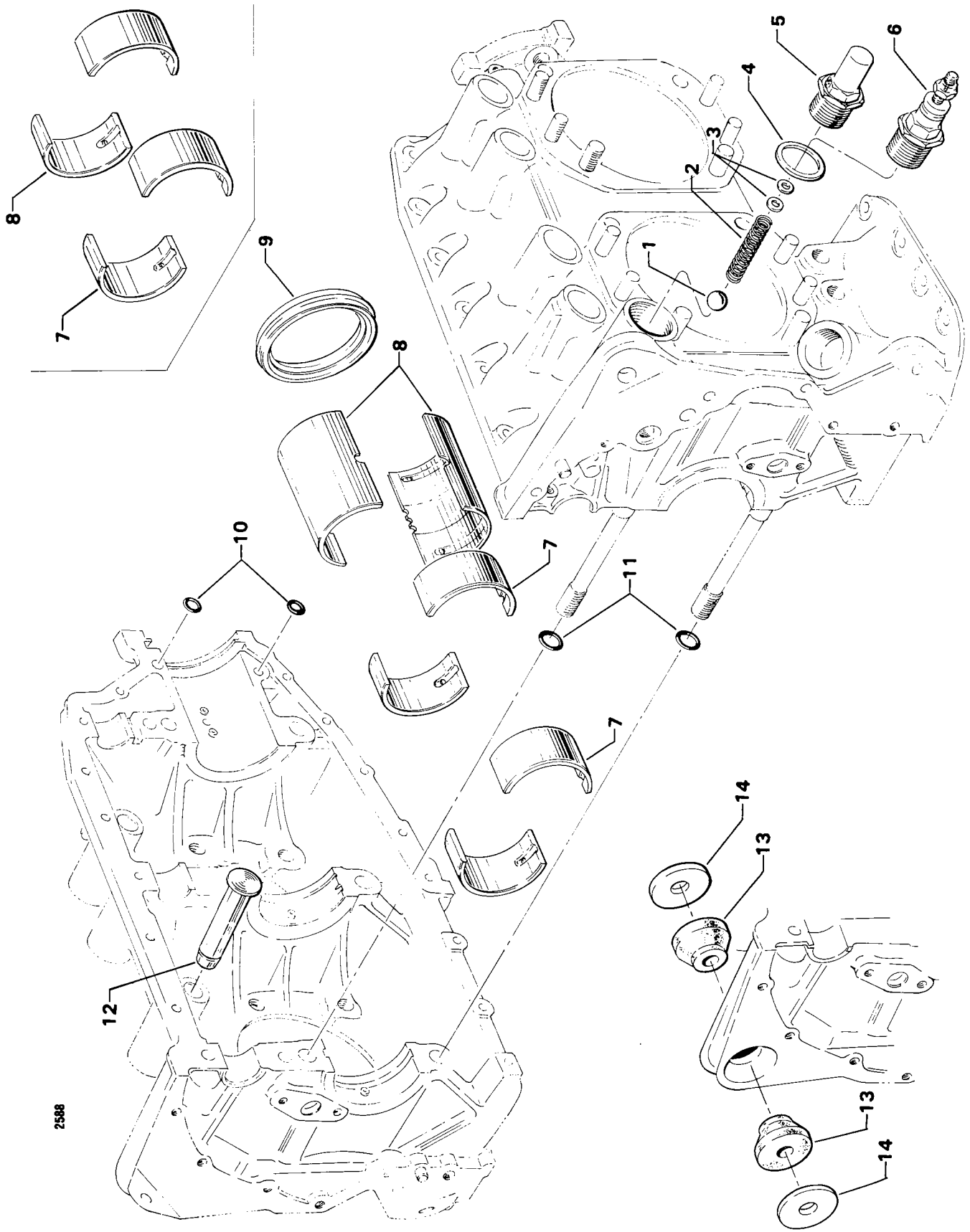


Figure 3. Crankshaft, Camshaft and Related Parts

O-235 SERIES PARTS CATALOG

CRANKCASE RELATED PARTS

- * Used with controllable pitch propeller.
- ** Used with fixed pitch propeller.



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Figure 4. Crankcase Related Parts

O-235 SERIES PARTS CATALOG

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

[illegible]

2599

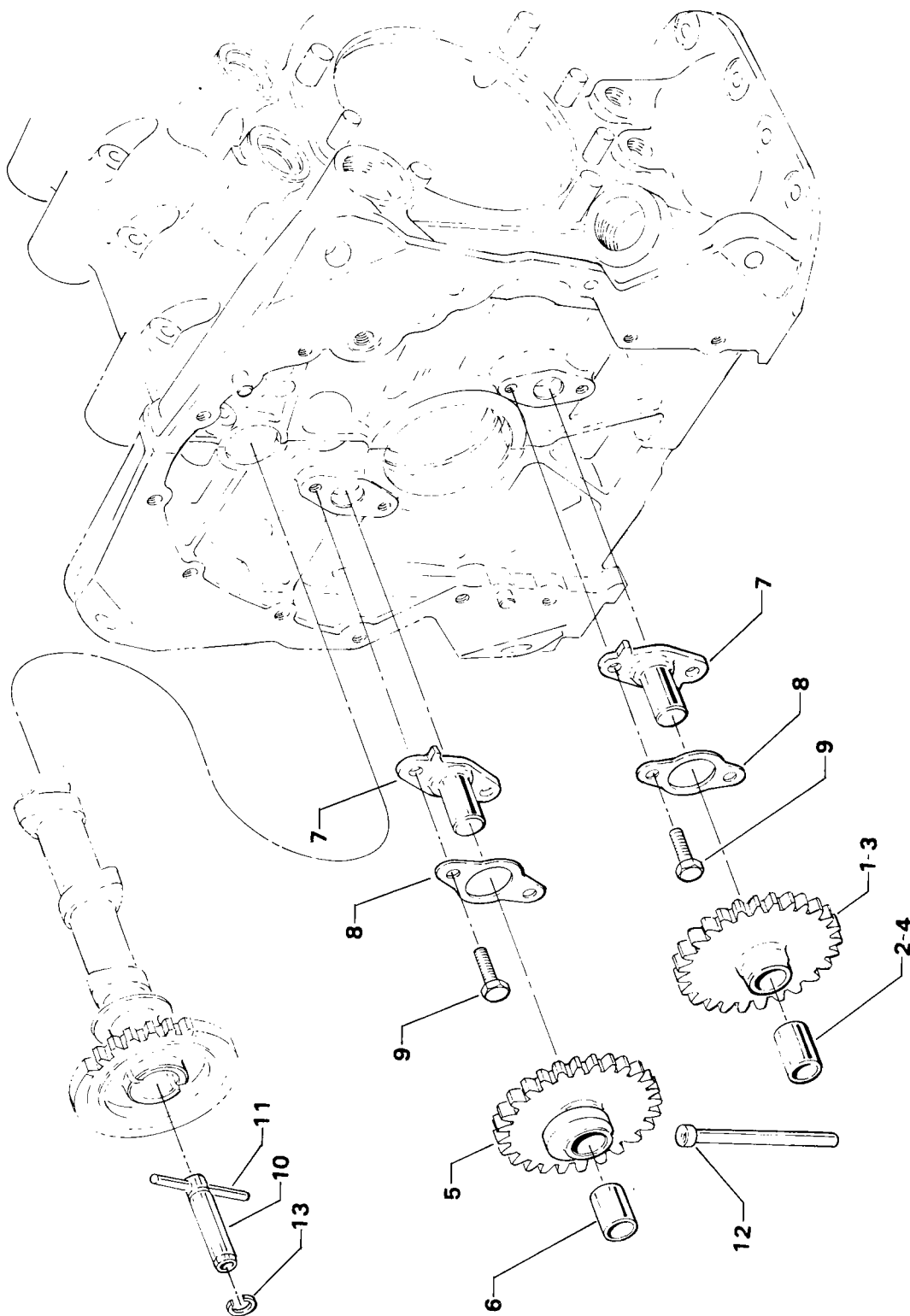


Figure 5. Crankshaft Idler Gears and Tachometer Shaft

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP
CRANKCASE ATTACHING PARTS

FIG. REF. 6	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	STD-1414	BOLT, 1/4-20 x 1-1/2 long	8																								
2	STD-8	WASHER, 1/4 plain	16																								
3	60803	STRAP, Lifting	1																								
4	STD-2084	BOLT, 1/4-20 x 1-3/4 long	1																								
5	AN6-21	BOLT, 3/8-24 x 2-13/64 long	1																								
6	STD-160	WASHER, 1/4 lock	9																								
7	STD-1411	NUT, 1/4-20 plain	9																								
8	STD-1416	BOLT, 1/4-20 x 1-1/2 long,																									
		dr. end	3																								
9	STD-8	WASHER, 1/4 plain (Max. 9)	un																								
10	STD-1409	NUT, 1/4-20 Slotted shear	3																								
11	STD-33	WASHER, 3/8 plain	2																								
12	STD-872	NUT, 3/8-24 Slotted shear	1																								
13	AN6-34A	BOLT, 3/8-24 x 3-19/32 long	2																								
14	STD-33	WASHER, 3/8 plain	4																								
15	STD-678	WASHER, 3/8 lock	2																								
16	STD-596	NUT, 3/8 plain	2																								
17	STD-1414	BOLT, 1/4-20 x 1-1/2 long		1														1									
18	STD-1419	BOLT, 1/4-20 x 1-1/8 long		2														2									
19	STD-8	WASHER, 1/4 plain		4														4									
20	STD-160	WASHER, 1/4 lock		3														3									
21	STD-1411	NUT, 1/4-20 plain		1														1									

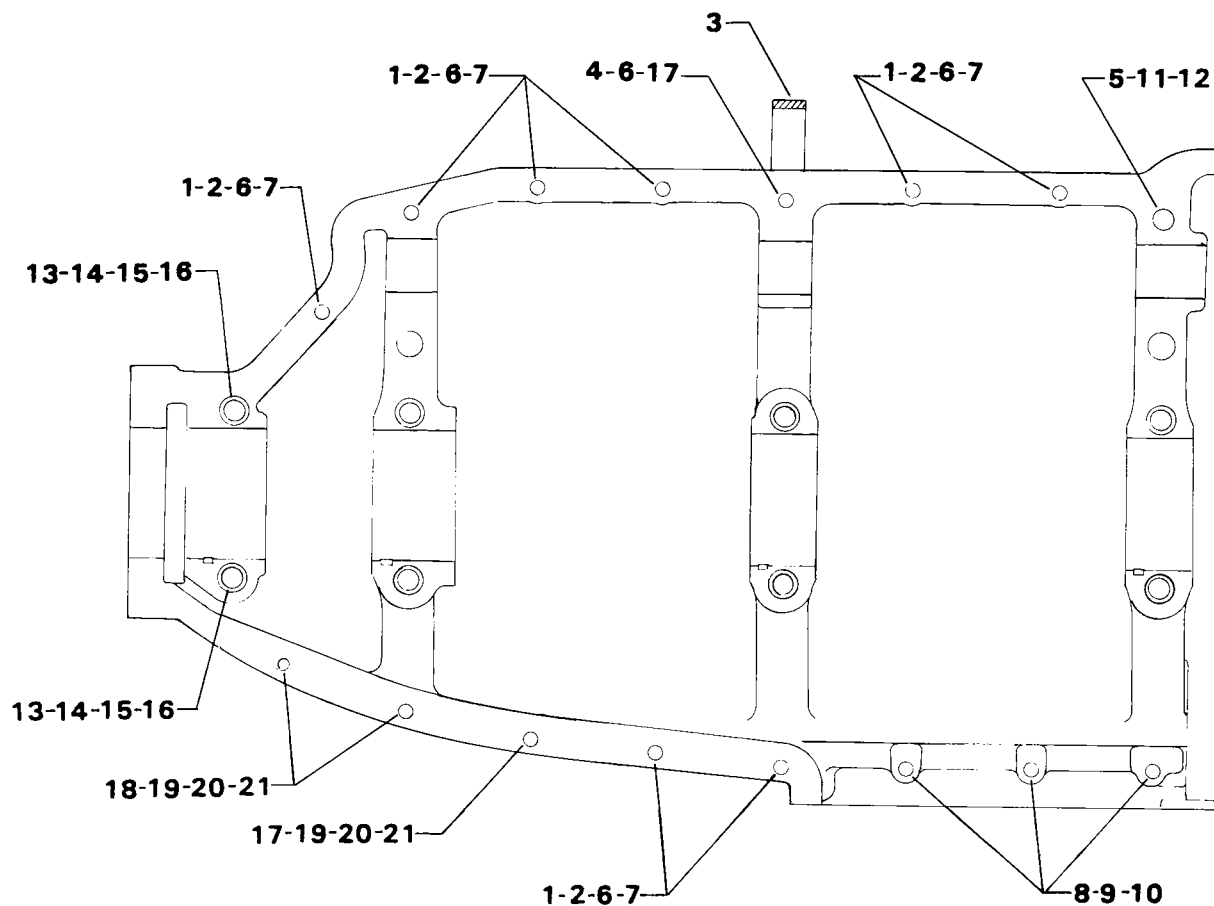


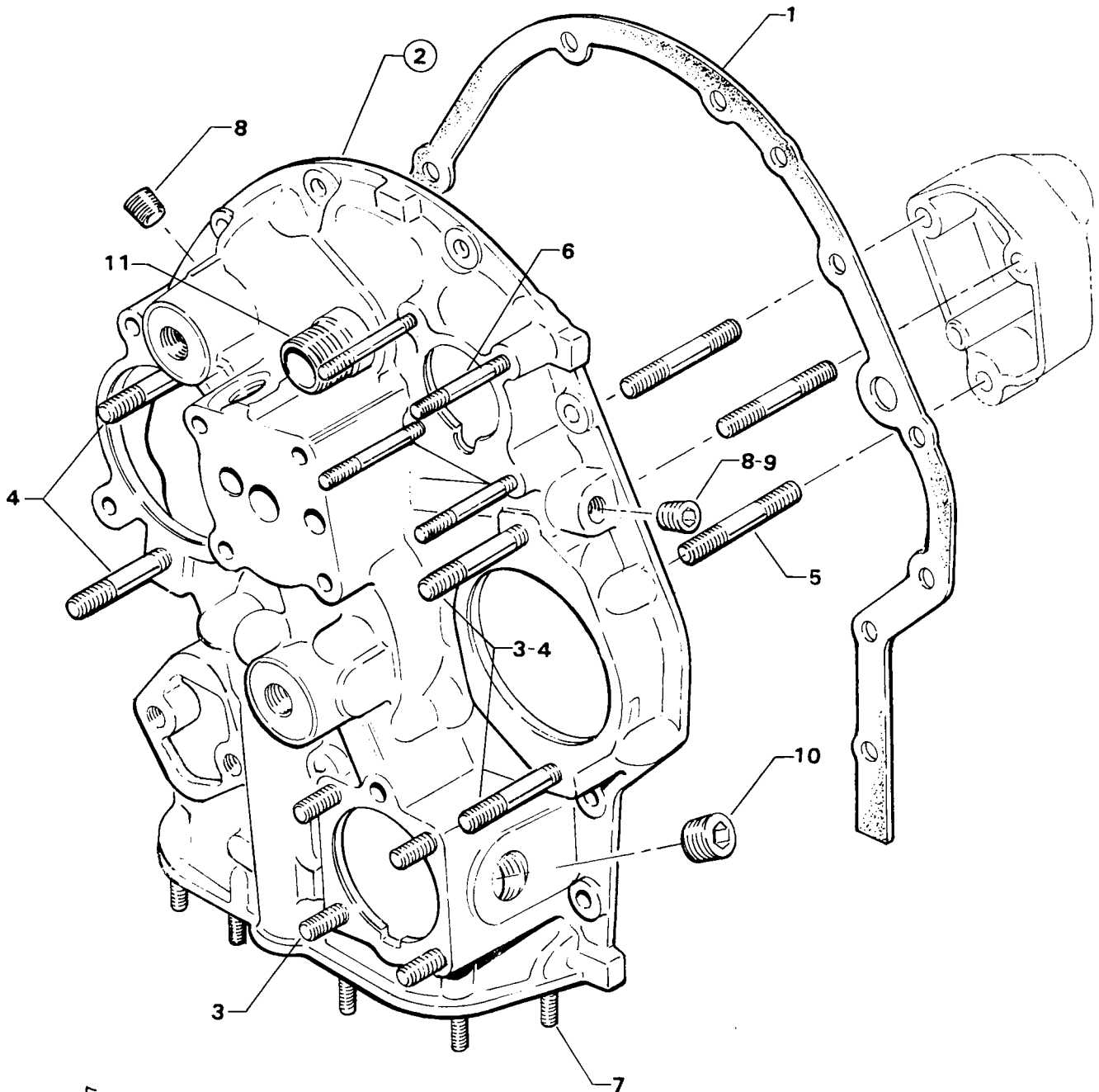
Figure 6. Crankcase Attaching Parts

O-235 SERIES PARTS CATALOG

ACCESSORY HOUSING ASSEMBLY

[illegible]

* LW-16011 Housing provides for two impulse magnetos.



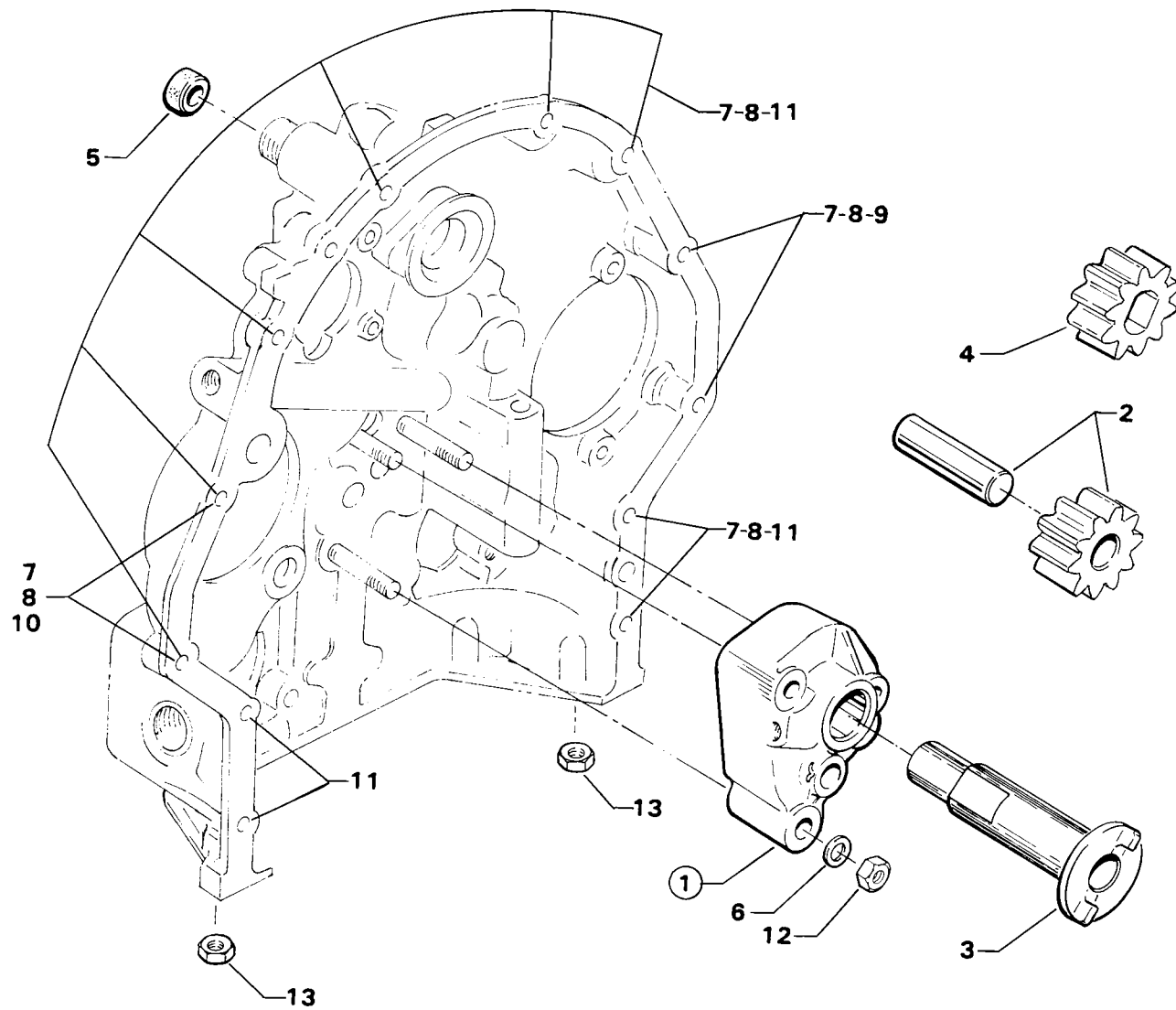
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Figure 7. Accessory Housing Assembly

O-235 SERIES PARTS CATALOG

OIL PUMP ASSEMBLY AND ACCESSORY HOUSING ATTACHING PARTS

[illegible]



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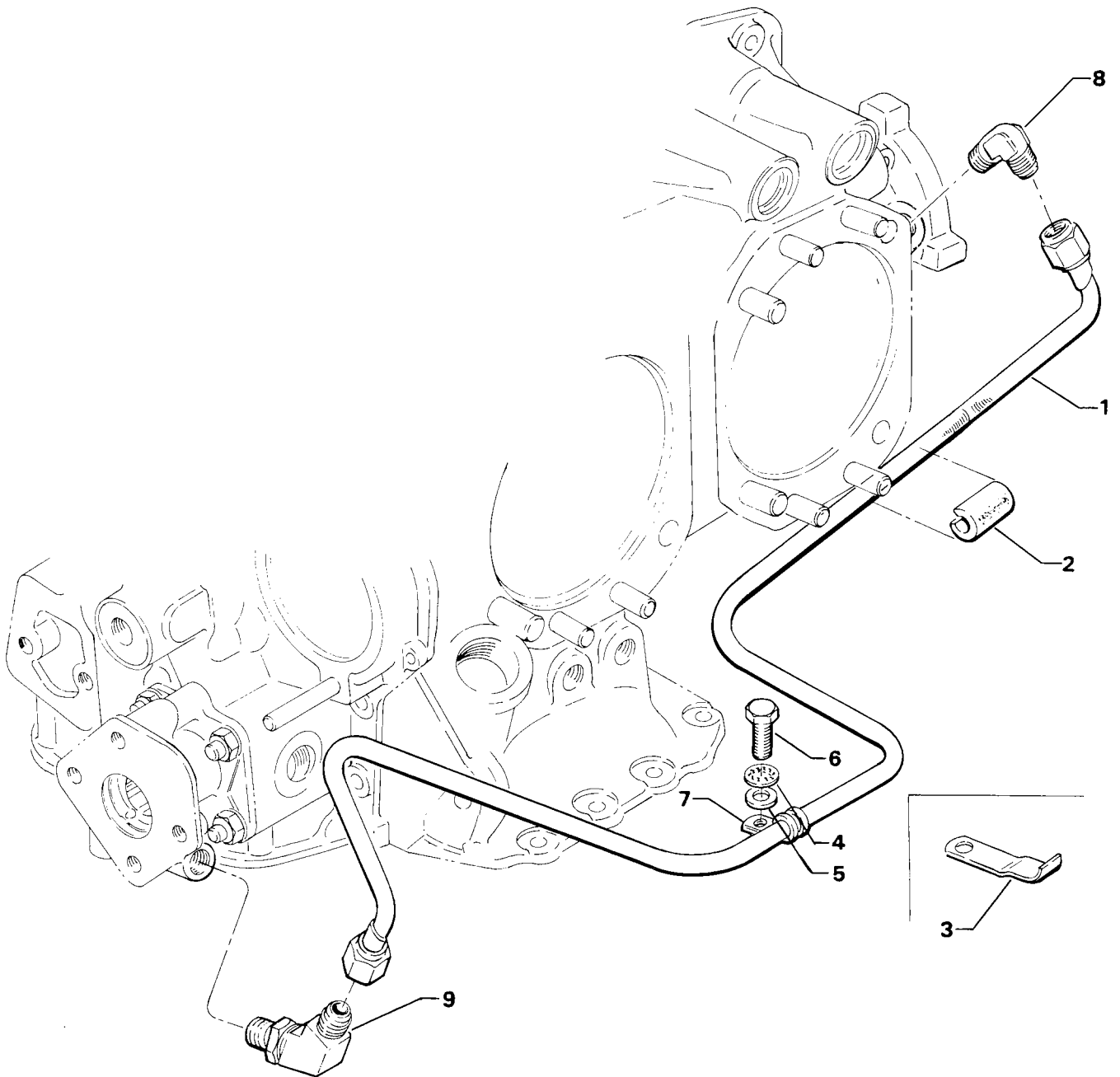
Figure 8. Oil Pump Assembly and Accessory Housing Attaching Parts

ACCESSORY HOUSING AND RELATED PARTS
PROPELLER GOVERNOR OIL LINE

FIG. REF. 9	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	75167	TUBE ASSY., Prop. governor oil line															1										
2	STD-1930	HOSE, 3/8 ID x 1.00 long															1										
3	75165	CLIP, Prop. gov. oil line support															1										
4	STD-35	WASHER, 5/16 plain															3										
5	STD-475	WASHER, 5/16 lock, internal teeth															1										
6	STD-1838	BOLT, 5/16-18 x 15/16 long, hex hd.															1										
8	LW-16266-25-38	CLAMP															1										
8	MS20822-6*	ELBOW, 3/8 flared tube & 1/4 NPT, 90°															1										
9	74070**	ELBOW, 3/8 flared tube & 9/16-18																									
		str. thd., adj. 45°															1										

* Assemble in right crankcase, front.

** Assemble in prop. governor adapter.



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Figure 9. Propeller Governor Oil Line

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O-235 SERIES PARTS CATALOG

ACCESSORY HOUSING AND RELATED PARTS PROPELLER GOVERNOR DRIVE AND COVER

FIG. REF. 10	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	68317	SHAFTGEAR, Prop. governor drive															1										
2	71596	WASHER, Accessory driven gear															1										
3	STD-1221	RING, 13/16 dia. x 3/64 thick, internal retaining															1										
4	68315	GASKET, Accessory drive adapter															1										
5	75153	ADAPTER ASSY., Prop. governor drive															1										
6	1102	PLUG, 1/8-27 NPT, Allen															1										
7	67556	STUD, 5/16-18 x 2.00 long															4										
8	STD-1774	PIN, 1/8 x 1/4 long															1										
9	STD-35	WASHER, 5/16 plain															4										
10	STD-475	WASHER, 5/16 internal lock															4										
11	STD-1410	NUT, 5/16-18 plain															4										
12	72053	GASKET, Governor															1										
13	72378	COVER, Governor drive															1										
14	STD-35*	WASHER, 5/16 plain															un										
15	STD-475	WASHER, 5/16 internal lock															4										
16	STD-1410	NUT, 5/16 plain															4										

* 32 required for Woodward governor; 4 required for AN governor.

2592

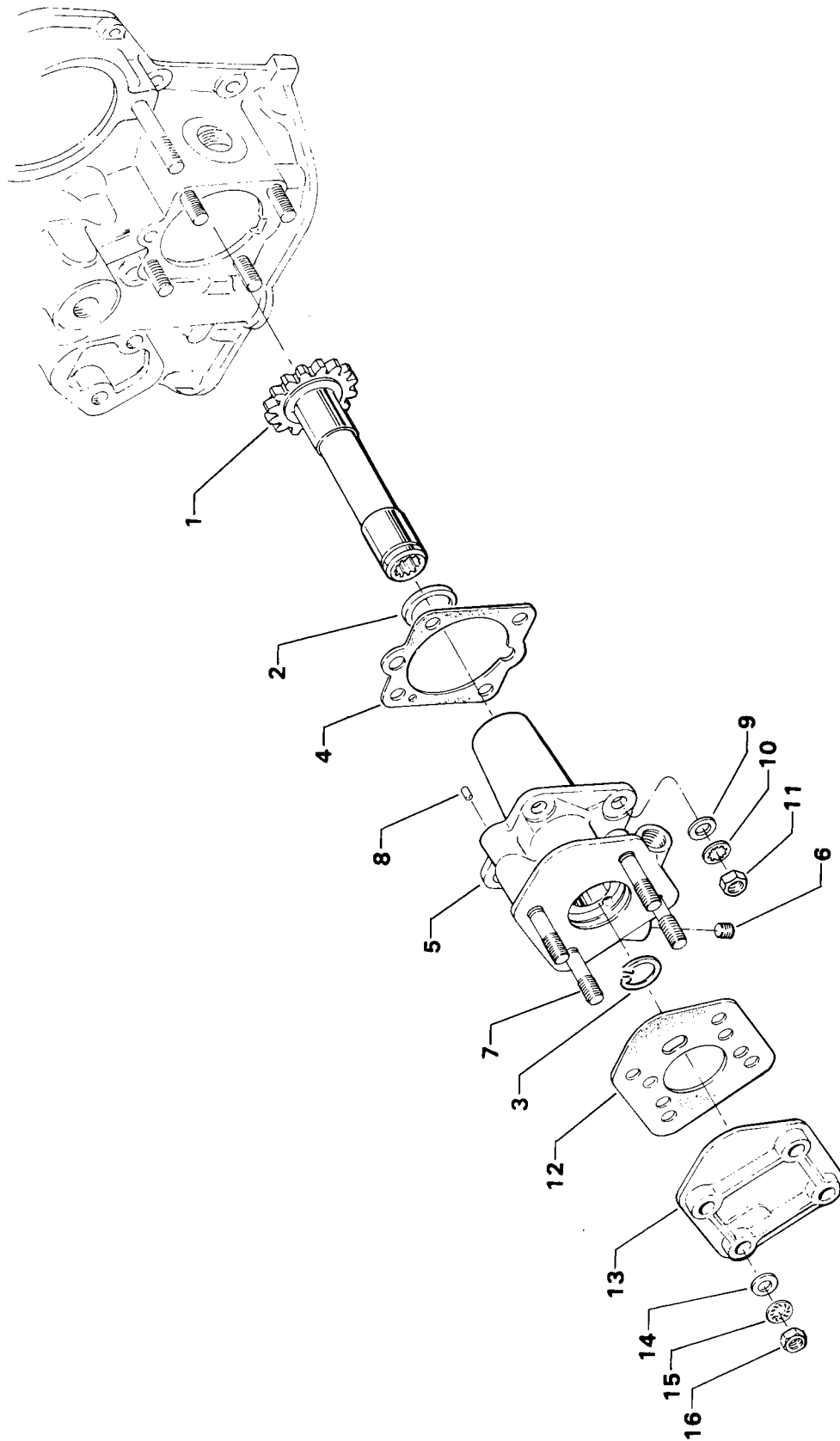


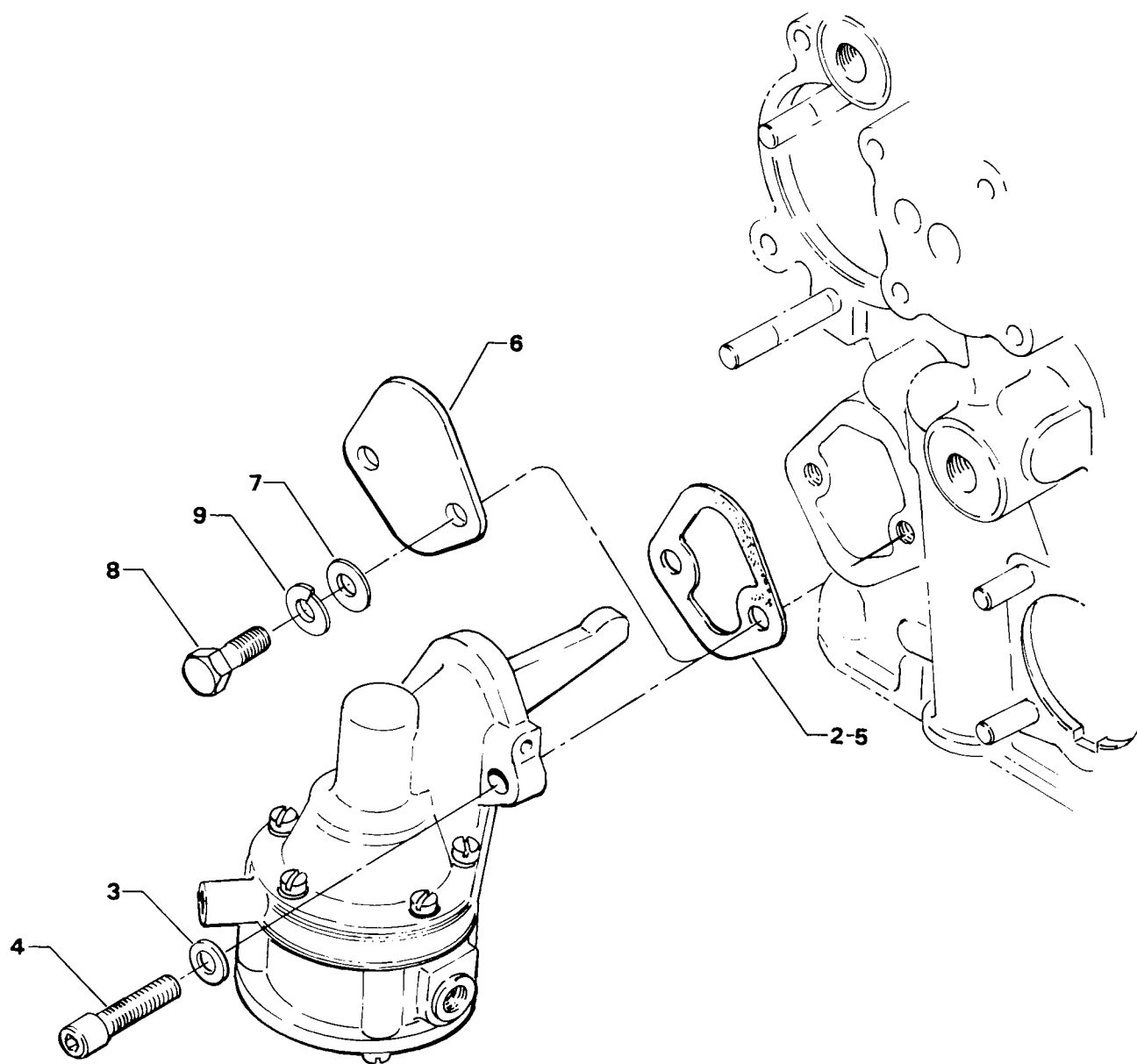
Figure 10. Propeller Governor Drive and Cover

O-235 SERIES PARTS CATALOG

ACCESSORY HOUSING AND RELATED PARTS

FUEL PUMP ASSEMBLY AND ATTACHING PARTS

[illegible]

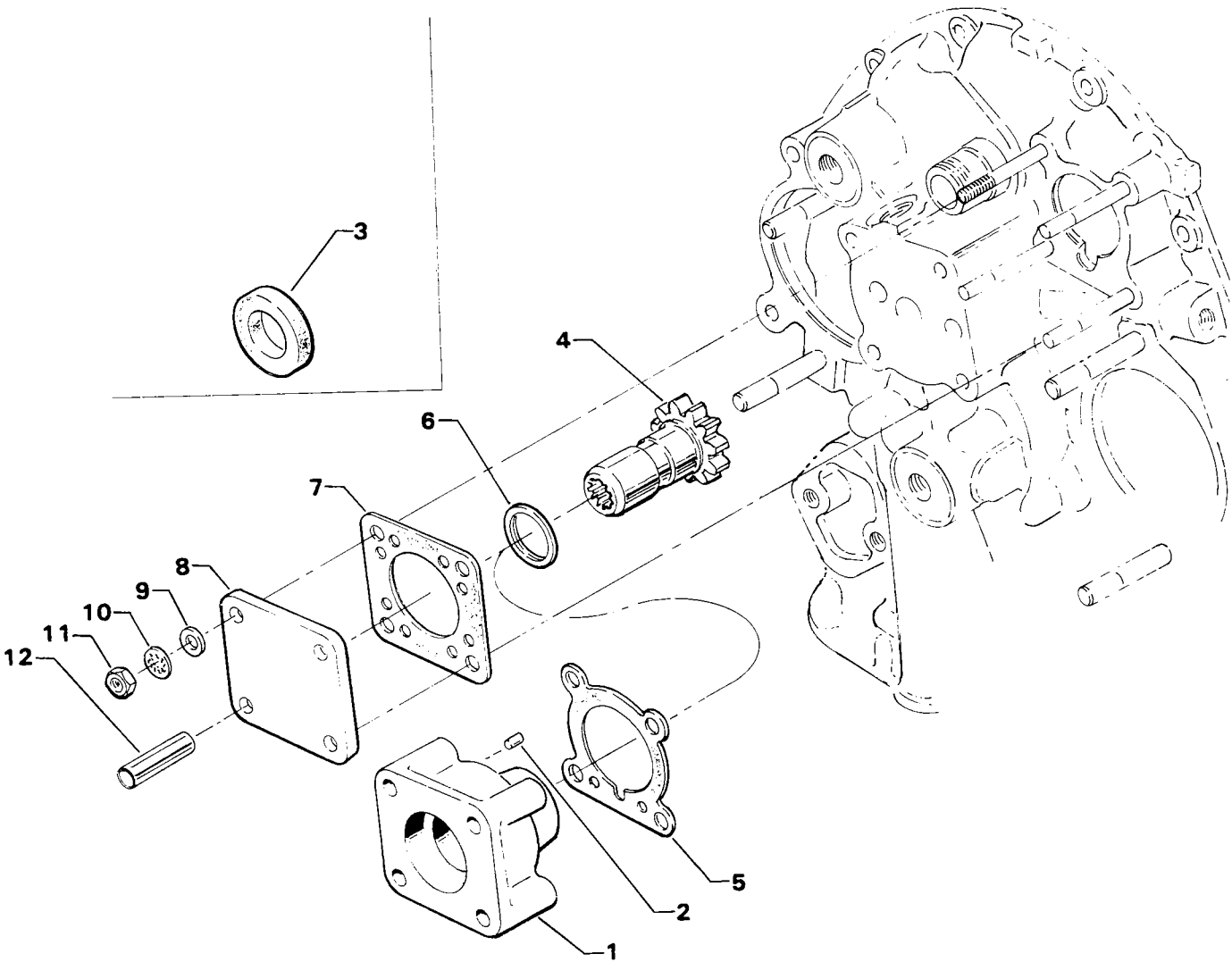


2585

Figure 11. Fuel Pump Assembly and Attaching Parts

ACCESSORY HOUSING AND RELATED PARTS
VACUUM PUMP DRIVE AND COVER

FIG. REF. 12	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	61098	ADAPTER ASSY., Vacuum pump		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
2	STD-1774	PIN, 1/8 dia. x 1/4 long		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
3	STD-208	SEAL, Oil, 7/8 ID x 1-1/2 OD																									
		x 5/16 wide		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
4	72970	GEAR ASSY., Vacuum pump driven		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
5	61183	GASKET, Accessory adapter	1																								
6	71596	WASHER, Accessory driven gear		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
7	8313	GASKET, Vacuum pump		1	1		1	1	1	1		1	1	1		1	1	1	1	1							
8	60430	COVER, Vacuum pump	1																								
9	STD-8	WASHER, 1/4 plain	4																								
10	STD-160	WASHER, 1/4 lock	4																								
11	STD-1411	NUT, 1/4-20 plain	4																								
12	68593	SPACER, Vacuum pump stud		4	4	4	4	4			4				4	4		4									



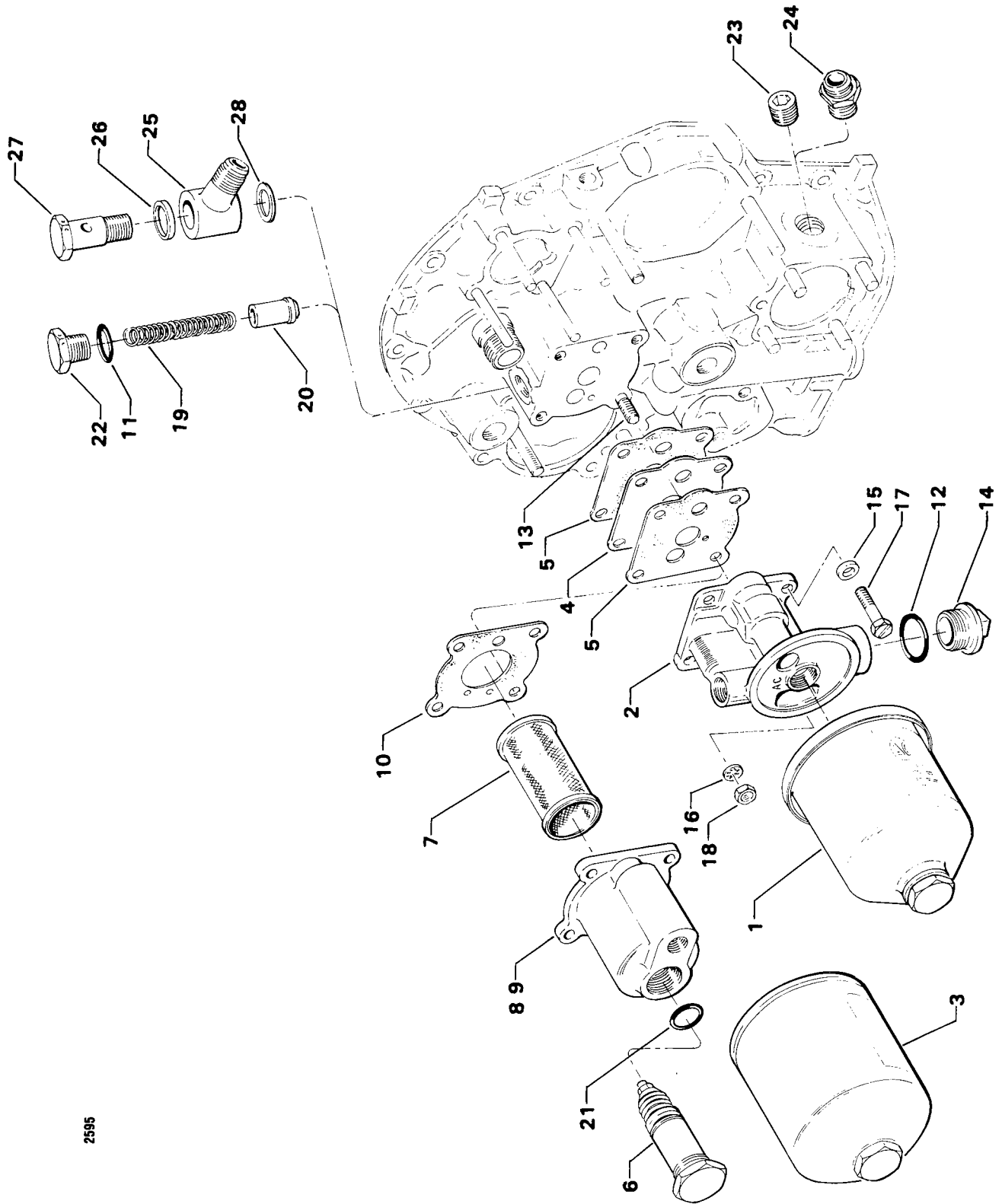
2591

Figure 12. Vacuum Pump Drive and Cover

O-235 SERIES PARTS CATALOG

[illegible]

* Do not use spring and plunger on engines equipped with 75944 oil cooler bypass valve or engines without oil cooler installation.



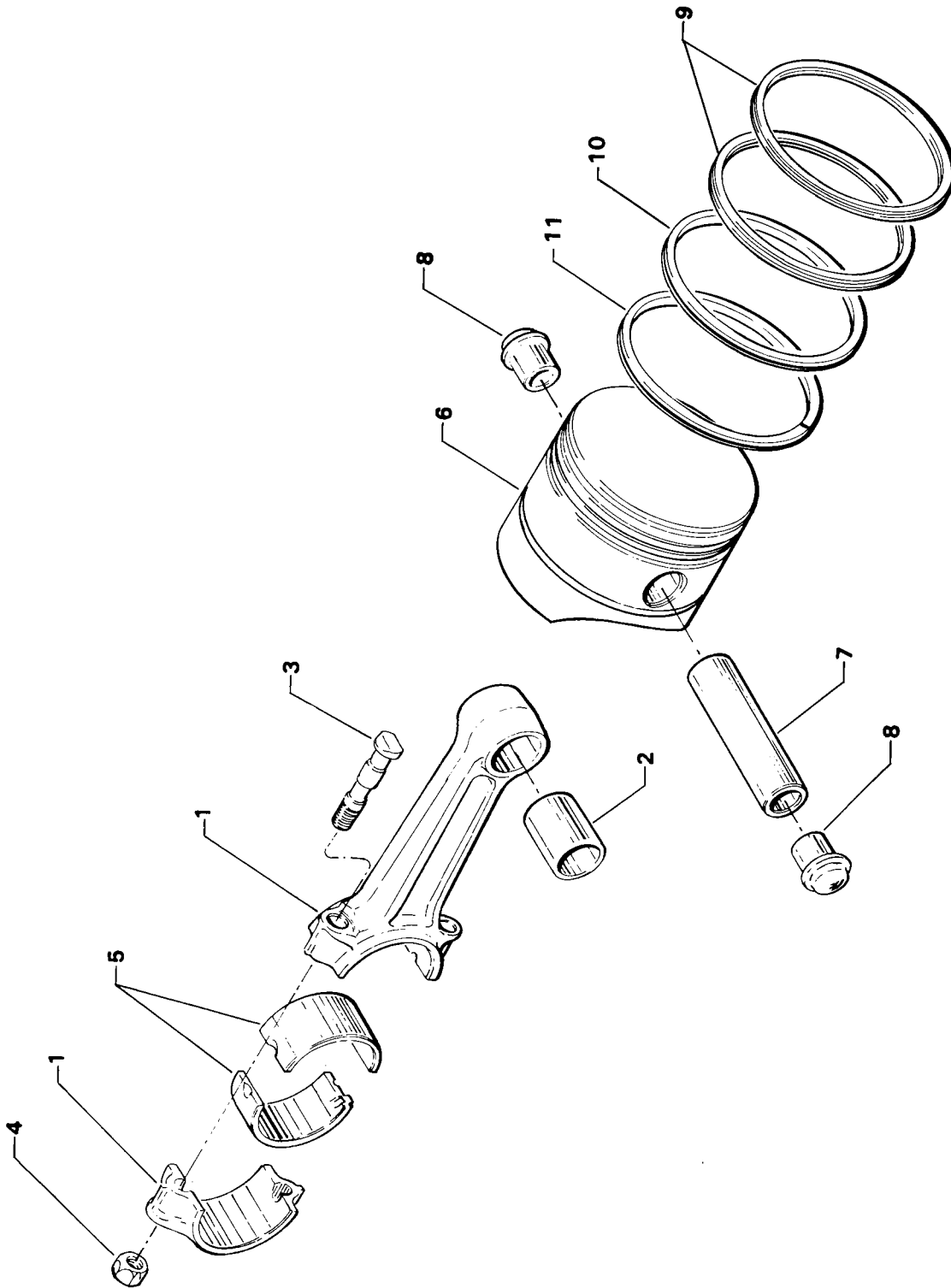
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Figure 13. Oil Filter Assembly and Oil Cooler Bypass Valve

O-235 SERIES PARTS CATALOG

[illegible]

Revised January, 1987



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Figure 14. Connecting Rods, Pistons and Ring Assemblies

O-235 SERIES PARTS CATALOG

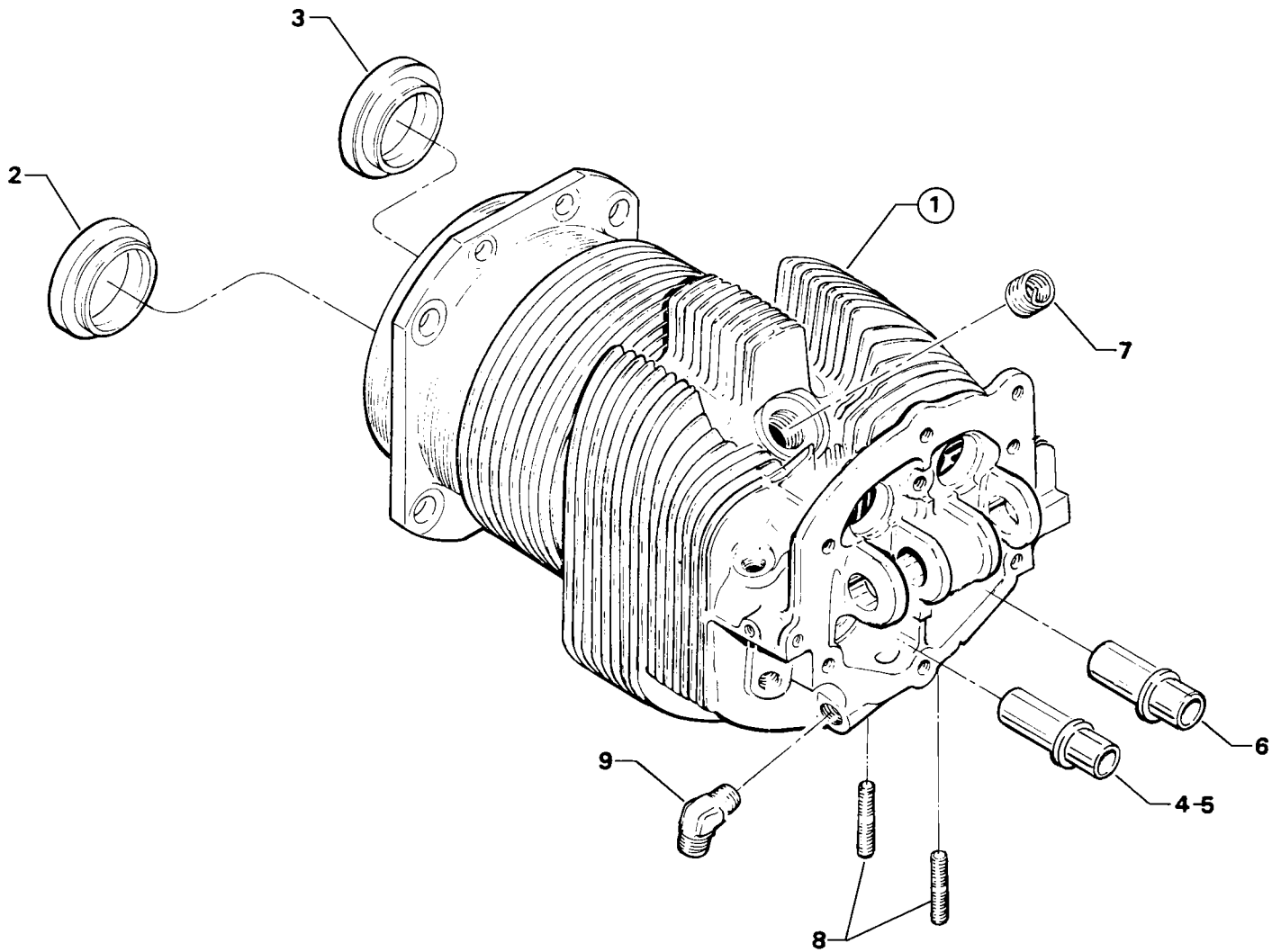
CYLINDER, PISTON AND VALVE TRAIN

CYLINDER ASSEMBLY

[illegible]

* Incorporates Allison exhaust valve seats.

★★ Allison valve seat.



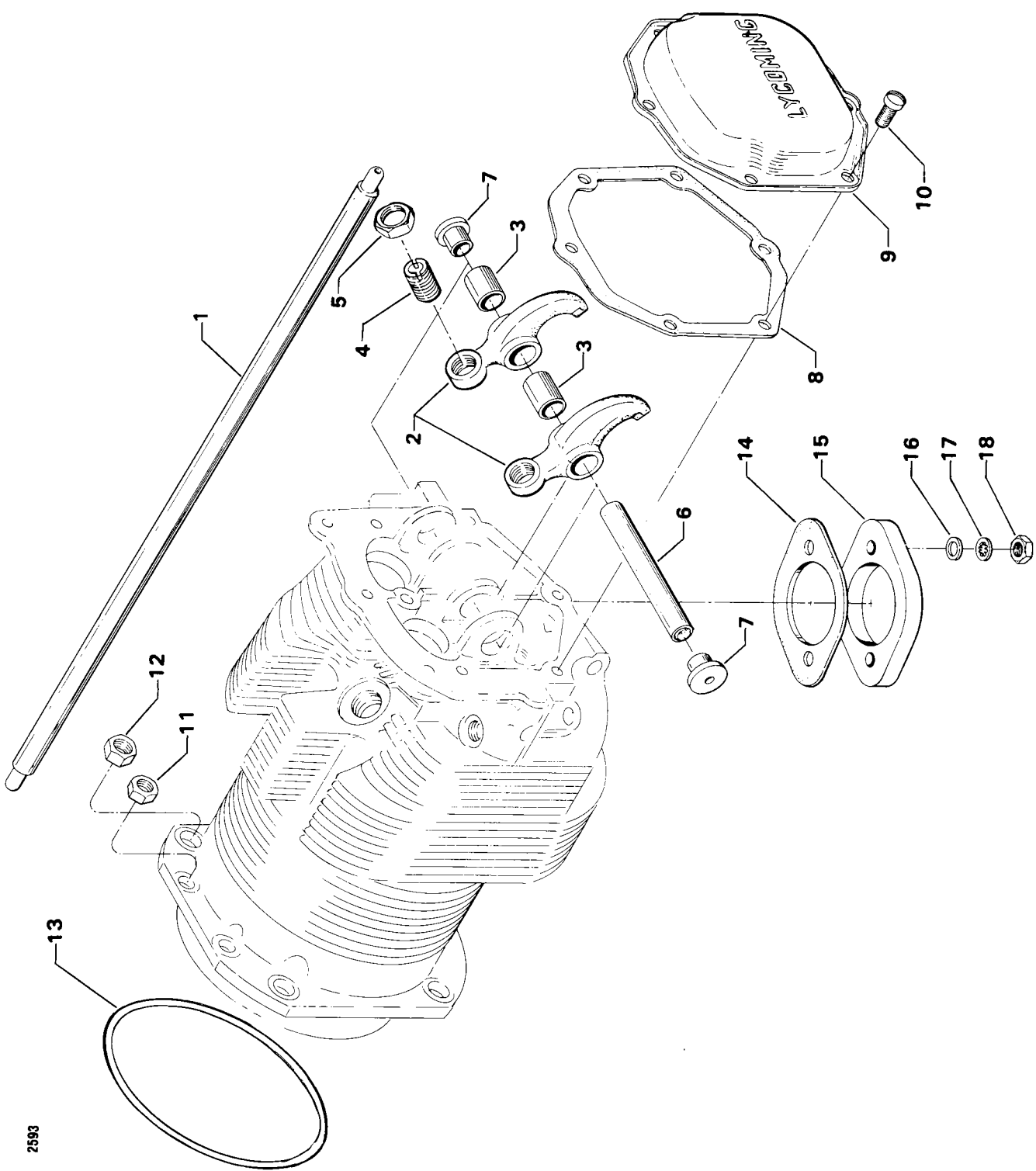
2594

Figure 15. Cylinder Assembly

O-235 SERIES PARTS CATALOG

CYLINDER RELATED PARTS

[illegible]



2593

Figure 16. Cylinder Related Parts

O-235 SERIES PARTS CATALOG

VALVE ASSEMBLY

[illegible]

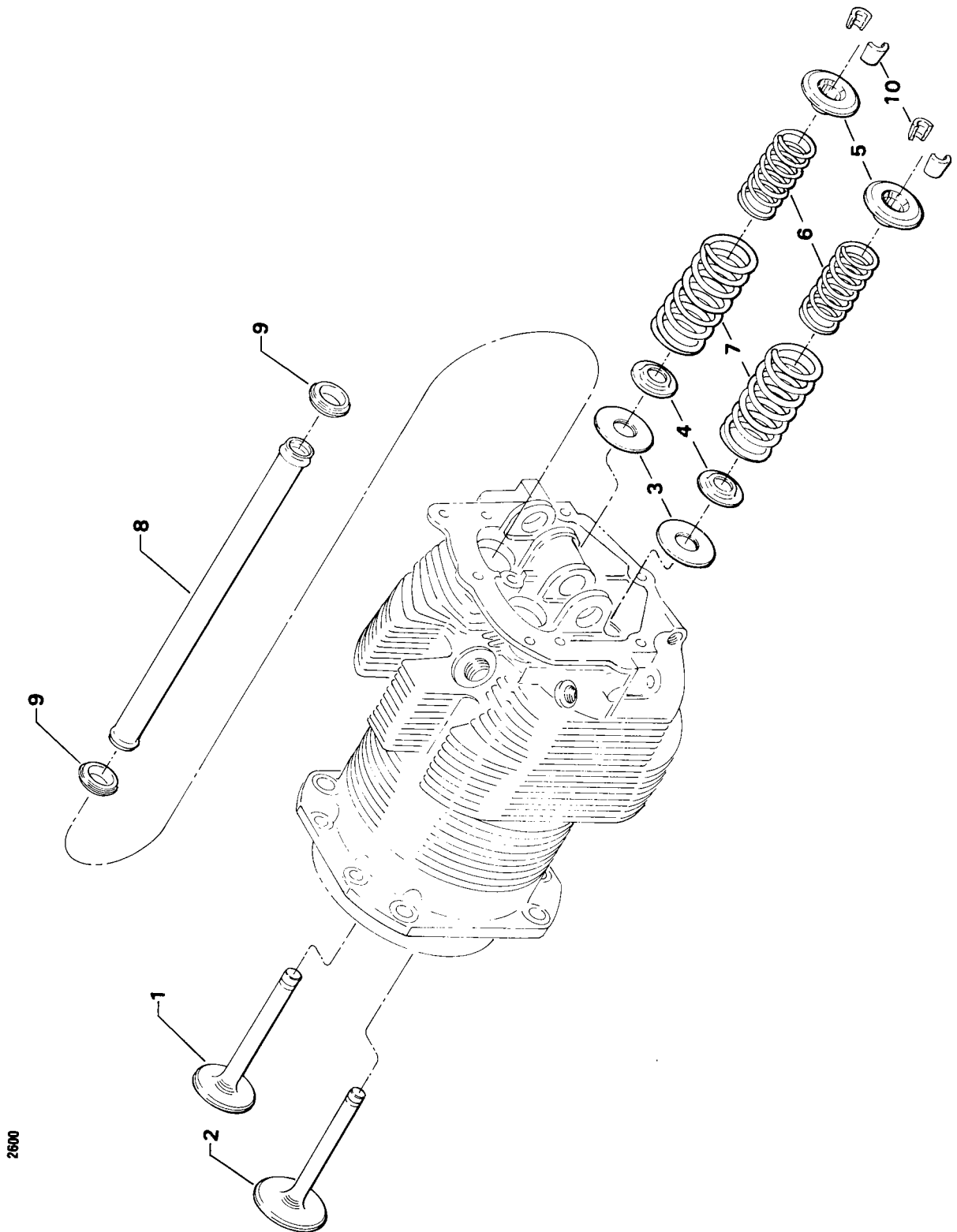


Figure 17. Valve Assembly

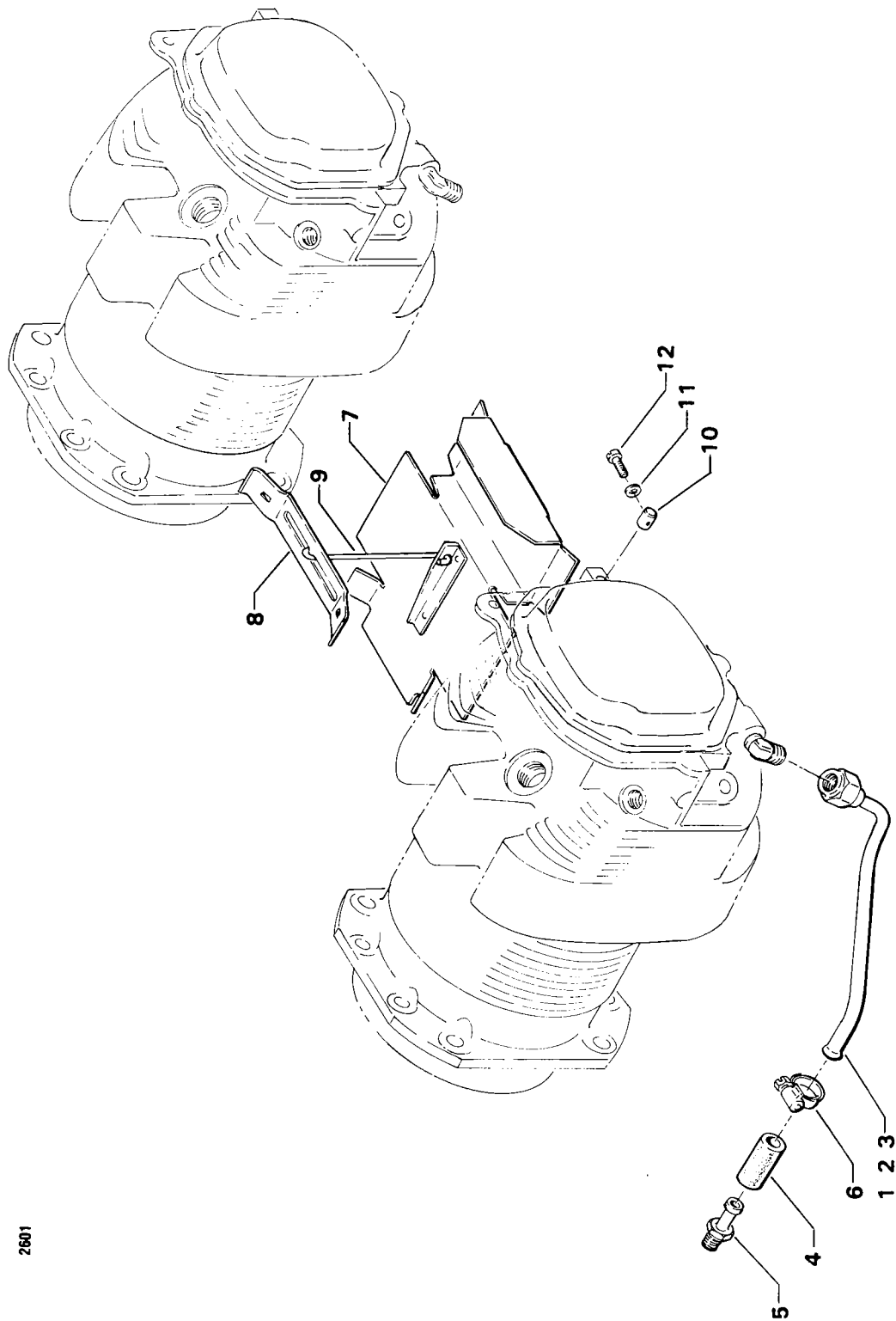
LYCOMING

O-235 SERIES PARTS CATALOG

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER HEAD DRAIN TUBES AND INTERCYLINDER COOLING BAFFLES

FIG. REF. 18	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																						
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C						
1	60890	TUBE ASSY., Oil drain, cyl. no. 1	1																							
2	60821	TUBE ASSY., Oil drain, cyl. no. 2	1																							
3	60928	TUBE ASSY., Oil drain, cyls. no. 3 & 4	2																							
4	STD-2180	HOSE, 3/8 ID x 1-13/16	4																							
5	STD-684	NIPPLE, Straight, 3/8 ID hose	4																							
6	LW-15592-5-05	CLAMP, Hose	8																							
7	LW-13304	BAFFLE ASSY., Intercylinder					2	2					2	2	2	2	2	2								
8	71611	RETAINER, Intercylinder baffle					2	2					2	2	2	2	2	2								
9	LW-13303	HOOK, Intercylinder baffle retainer					2	2					2	2	2	2	2	2								
10	65614	PLUG, Baffle attaching												4	4	4										
11	STD-251	WASHER, No. 10 lock												4	4	4										
12	STD-665	SCREW, No. 10-32 x 3/4 fill. hd. dr.												4	4	4										

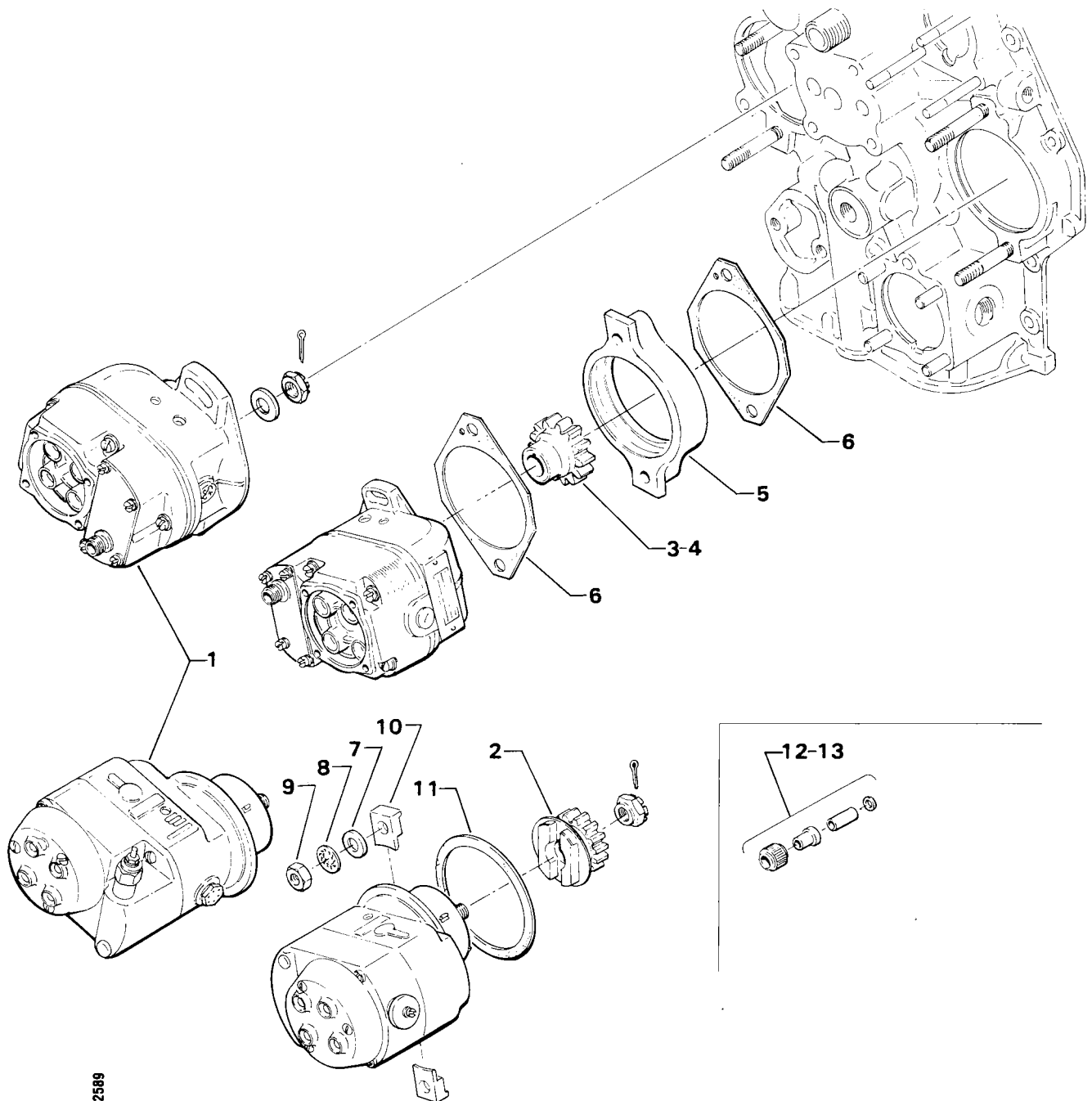


2501

Figure 18. Cylinder Head Drain Tubes and Intercylinder Cooling Baffles

O-235 SERIES PARTS CATALOG

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Figure 19. Magnetos and Magneto Drives

O-235 SERIES PARTS CATALOG

IGNITION SYSTEM

MAGNETOS AND MAGNETO DRIVES

FIG. REF. 20	PART NUMBER	DESCRIPTION	O N A L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
1	LW-15635	MAGNETO & HARNESS ASSY., Right (Slick)																									
2	LW-15636	MAGNETO, Right (Slick Model 4250)				1		1			1				1		1										
3	77743	HARNESS ASSY., Ignition, right				1		1			1				1		1										
4	LW-16596	MAGNETO & HARNESS ASSY., Right (Slick)																									
5	LW-15636	MAGNETO, Right (Slick Model 4250)																									
6	LW-15866	HARNESS ASSY., Ignition, right																									
7	LW-16590	MAGNETO & HARNESS ASSY., Right (Slick)																									
8	LW-16595	MAGNETO, Right (Slick Model 4281, impulse coupling)																									
9	77743	HARNESS ASSY., Ignition, right																									
10	LW-16685	MAGNETO & HARNESS ASSY., Right (Slick)																									
11	LW-16594	MAGNETO, Right (Slick Model 4252, impulse coupling)																									
12	77743	HARNESS ASSY., Ignition, right																									
13	LW-15637	MAGNETO & HARNESS ASSY., Left (Slick)																									
14	LW-15638	MAGNETO, Left (Slick Model 4251, impulse coupling)																									
15	77745	HARNESS ASSY., Ignition, left																									
16	LW-16587	MAGNETO & HARNESS ASSY., Left (Slick)																									
17	LW-16594	MAGNETO, Left (Slick Model 4252, impulse coupling)																									
18	77745	HARNESS ASSY., Ignition, left																									
19	LW-16588	MAGNETO & HARNESS ASSY., Left (Slick)																									
20	LW-16595	MAGNETO, Left (Slick Model 4281, impulse coupling)																									
21	LW-15868	HARNESS ASSY., Ignition, left																									
22	LW-16589	MAGNETO & HARNESS ASSY., Left (Slick)																									
23	LW-16595	MAGNETO, Left (Slick Model 4281, impulse coupling)																									
24	77745	HARNESS ASSY., Ignition, left																									
25	61665	GEAR, Magneto, impulse coupling				1		1			1				1		1										
	61665	GEAR, Magneto, impulse coupling													2		2										
26	61163	GEAR, Magneto				1		1			1				1		1										
27	LW-12706	ADAPTER, Magneto, impulse coupling				1		1			1				1		1										
	LW-12706	ADAPTER, Magneto, impulse coupling													2		2										
28	62224	GASKET, Magneto adapter and magneto				1		1			1				1		1										
	62224	GASKET, Magneto adapter and magneto													2		2										

IGNITION SYSTEM

MAGNETOS AND MAGNETO DRIVES (Cont.)

FIG. REF. 20	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C				
29	LW-12681	GASKET, Magneto				2		2			2			2	2			2						
30	76961	CLAMP, Magneto				4		4			4			4	4			4						
31	LW-14057	CLIP, 1 wire				2		2			2			2	2			2						
	LW-14057	CLIP, 1 wire												4										
32	LW-14060	CLIP, 2 wire				3		3			3			3	3					3				
33	STD-475	WASHER, 5/16 lock, internal teeth				4		4			4			4	4				4					
34	STD-1727	WASHER, Plain, 3/4 OD x 21/64 ID																						
		x 1/8 thick				4		4			4			4	4				4					
35	STD-1410	NUT, 5/16-18 plain				4		4			4			4	4				4					
36	STD-761	COTTER PIN, 3/32 dia. x 1.00 long				1		1			1			1	1									
	STD-761	COTTER PIN, 3/32 dia. x 1.00 long												2	2				2					

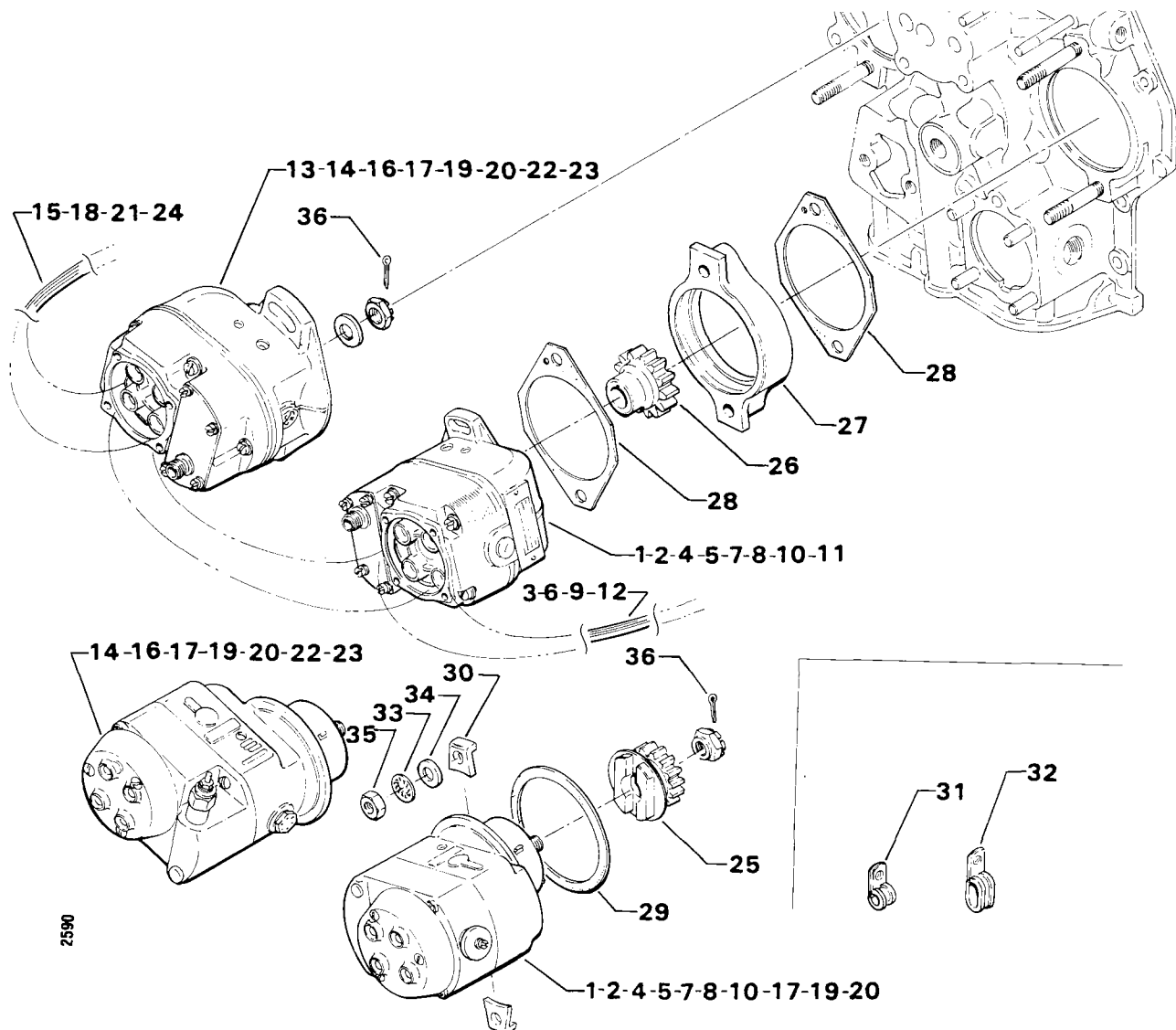


Figure 20. Magnetos and Magneto Drives

O-235 SERIES PARTS CATALOG

IGNITION HARNESS AND LEAD ASSEMBLY (SLICK)

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

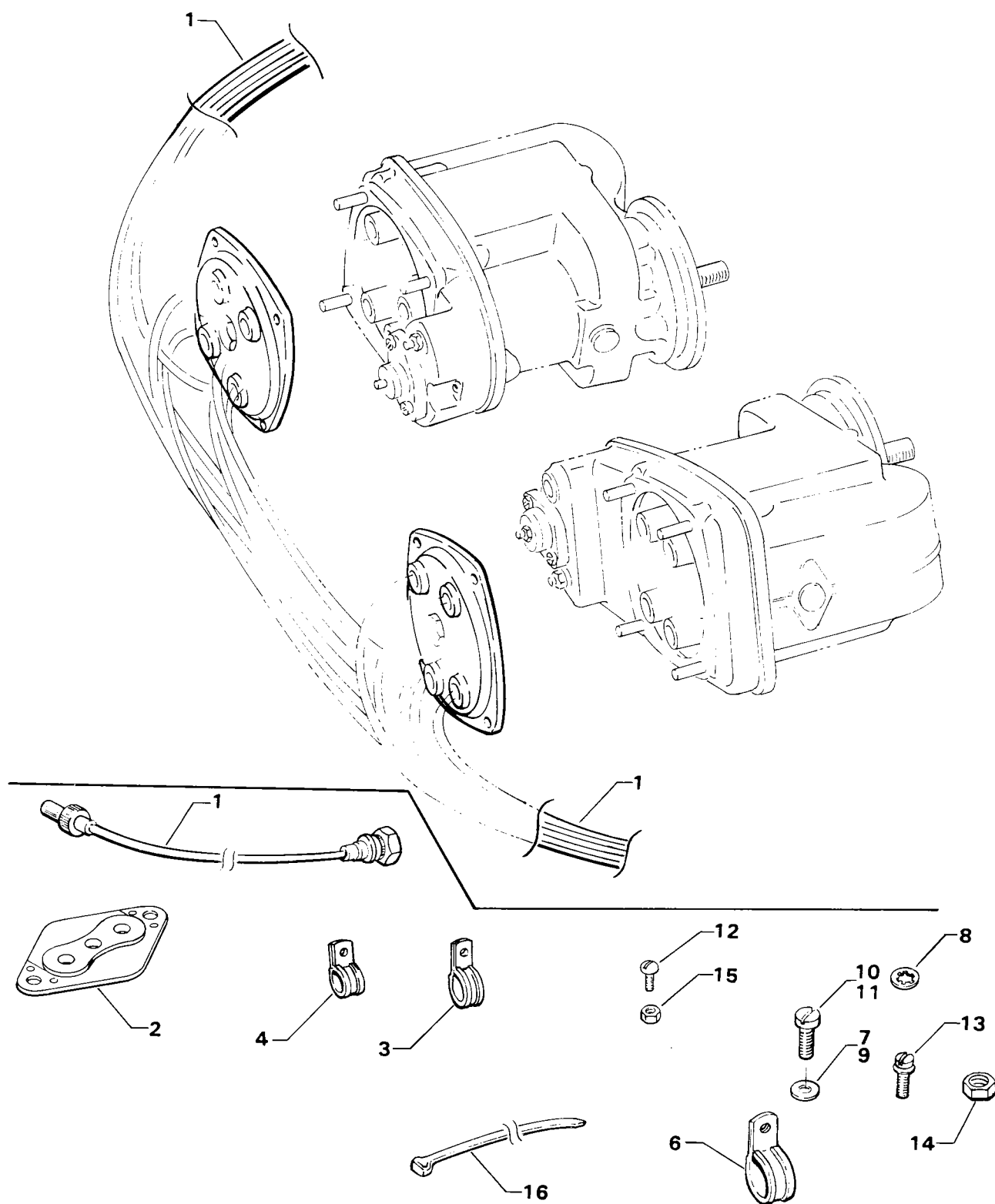


Figure 21. Ignition Harness and Lead Assembly (Slick)

O-235 SERIES PARTS CATALOG

SPARK PLUGS

NOTE

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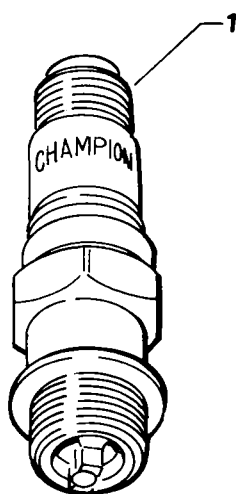
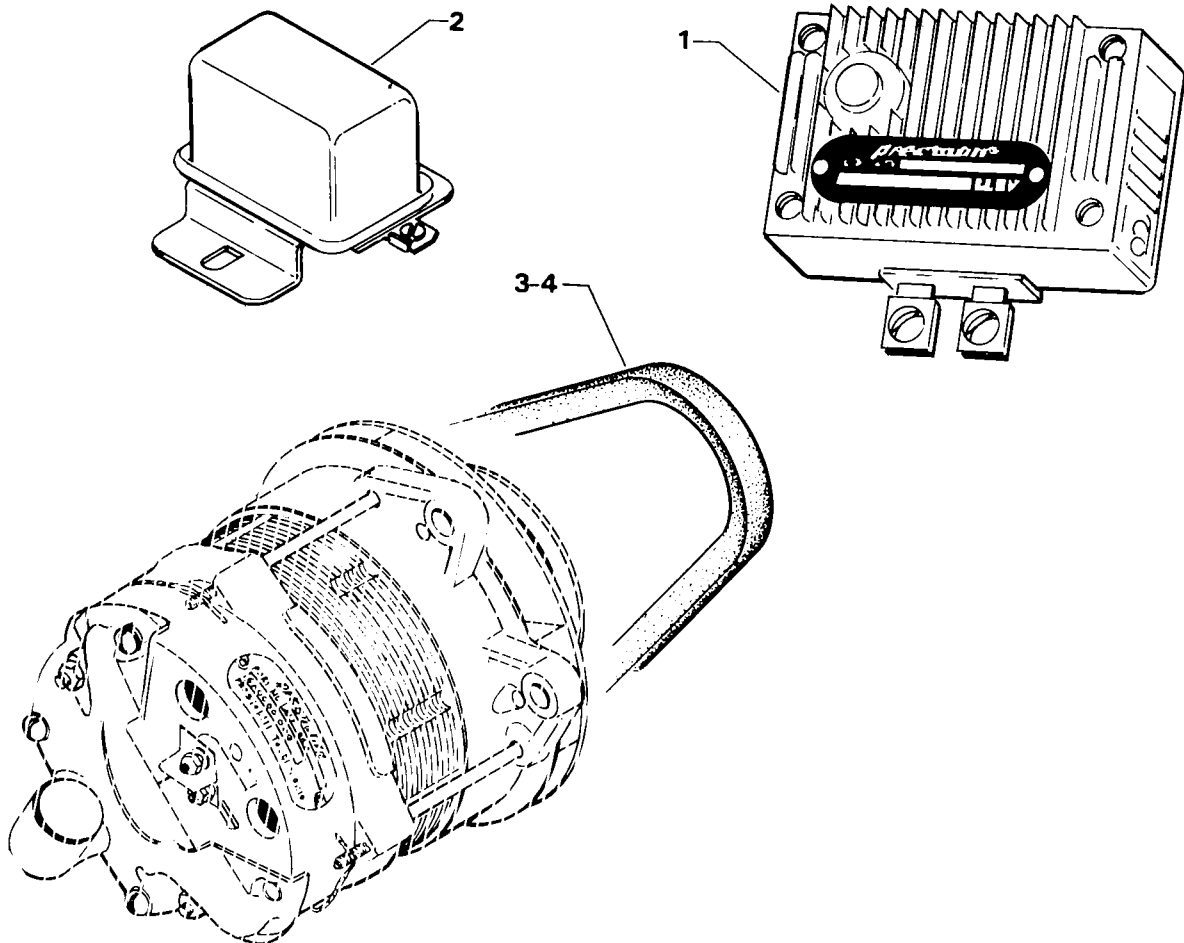


Figure 22. Spark Plugs

VOLTAGE REGULATORS, RELAY, ALTERNATOR AND GENERATOR DRIVE BELTS

5-1



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Figure 23. Voltage Regulators, Alternator and Generator Drive Belts

O-235 SERIES PARTS CATALOG

ELECTRICAL COMPONENTS

GENERATOR MOUNTING AND ATTACHING PARTS

[illegible]

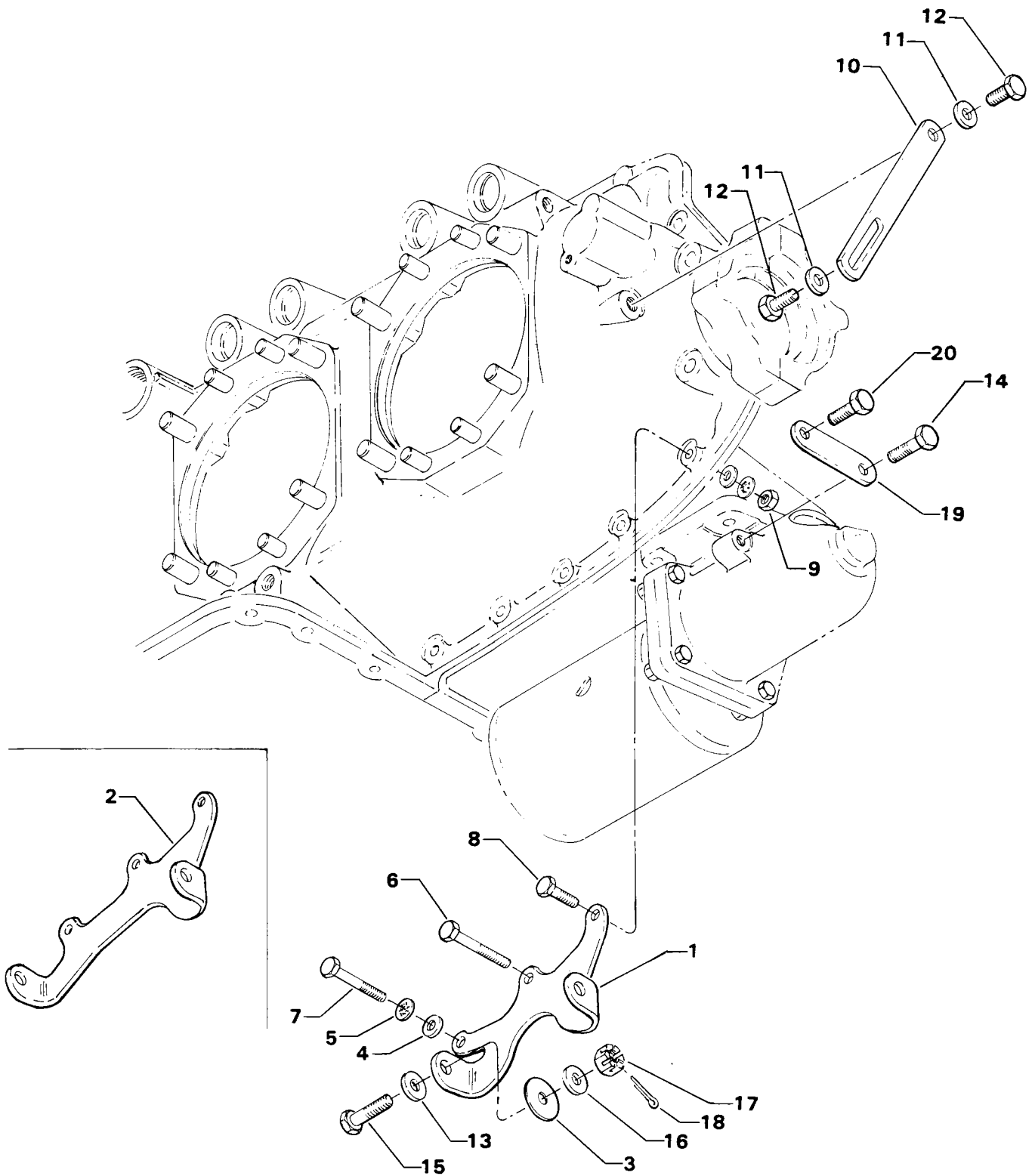


Figure 24. Generator Mounting and Attaching Parts

O-235 SERIES PARTS CATALOG

FIG. REF. 25	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																						
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C						
1	78158	BRACKET, Alternator		1	1	1	1	1	1	1	1	1	1	1	1	1	1									
	LW-13039	BRACKET, Alternator															1									
2	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing															1									
3	STD-8	WASHER, 1/4 plain		1	1	1	1	1	1	1	1	1	1	1	1	1	1									
4	STD-160	WASHER, 1/4 lock, internal teeth		3	3	3	3	3	3	3	3	3	3	3	3	3	3									
5	STD-2084	BOLT, 1/4-20 x 1-3/4 long, hex. hd.		1	1	1	1	1	1	1	1	1	1	1	1	1	1									
6	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex. hd.		2	2	2	2	2	2	2	2	2	2	2	2	2	2									
7	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.															2									
8	STD-1411	NUT, 1/4-20 plain		1	1	1	1	1	1	1	1	1	1	1	1	1	1									
9	75380	LINK, Alternator adjusting		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
10	STD-35	WASHER, 5/16 plain		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
11	LW-31H.75	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
12	STD-1727	WASHER, Plain, 3/4 OD x 11/32 ID x																								
		1/8 thick		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
13	LW-31H.75	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
14	74323	STRUT, Alternator support		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
15	LW-31H.75	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
16	STD-690	WASHER, 13/16 OD x 3/8 ID x 1/16																								
		thick		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
17	AN6-14	BOLT, 3/8-24 x 1-37/64 long, hex. hd.																								
		dr. end		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
18	STD-690	WASHER, 13/16 OD x 3/8 ID x 1/16																								
		thick		un	un	un	un	un	un	un	un	un	un	un	un	un	un	un								
19																										

ELECTRICAL COMPONENTS
ALTERNATOR MOUNTING AND ATTACHING PARTS (Cont.)

FIG. REF. 25	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																							
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C							
37	STD-8	WASHER, 1/4 plain													12	12											
38	STD-160	WASHER, 1/4 shakeproof lock													3	3											
39	STD-1411	NUT, 1/4-20 plain													1	1											

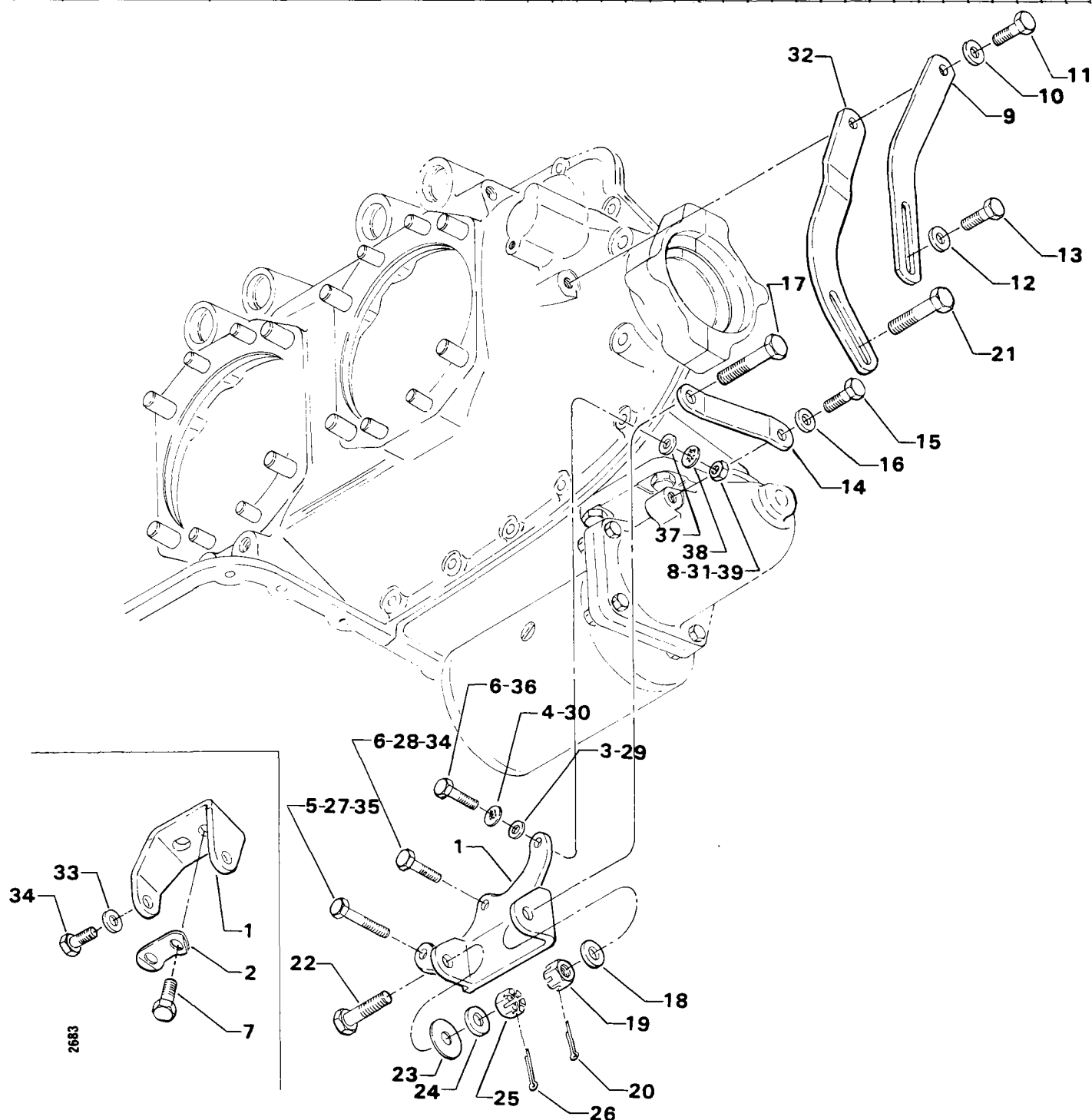


Figure 25. Alternator Mounting and Attaching Parts

O-235 SERIES PARTS CATALOG

FIG. REF. 26	PART NUMBER	DESCRIPTION	O N A L	QUANTITY PER ASSEMBLY																				
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C				
1	68767	GENERATOR, 12V - 35A (1101900)		1	1		1																	
	71744	GENERATOR, 12V - 50A (1101915)		1	1																			
2	78401*	ALTERNATOR, 12V - 40A, externally grounded (ALE-6406)		1			1	1																
	LW-14303*	ALTERNATOR, 12V - 40A, externally grounded (ALE-6420)					1																	
	LW-14301*	ALTERNATOR, 12V - 40A, externally grounded (ALE-8420)					1	1																
	78308*	ALTERNATOR, 12V - 40A, externally grounded (ALE-8406)		1	1		1		1	1														
	LW-12832*	ALTERNATOR ASSY., 12V - 60A, internally grounded		1										1		1								
	LW-12739	STRAP, Alternator ground		1									1		1									
	LW-14319*	ALTERNATOR, 24V - 50A, externally grounded (ALT-8421)						1																
	LW-14309*	ALTERNATOR, 12V - 60A, externally grounded (ALY-8420)					1	1						1	1	1								
	LW-14308*	ALTERNATOR, 12V - 60A, less thermocouples, externally grounded (ALY-8420)		1	1	1	1	1		1	1	1	1	1	1	1	1							
	LW-14310*	ALTERNATOR, 12V - 60A, externally grounded (ALY-6420)		1			1	1																
	LW-12833*	ALTERNATOR ASSY., 12V - 60A, internally grounded														1								
	LW-12739	STRAP, Alternator ground														1								
	LW-12834*	ALTERNATOR ASSY., 12V - 60A, internally grounded						1								1								
	LW-12739	STRAP, Alternator ground						1								1								
	LW-14316*	ALTERNATOR, 12V - 70A, less thermocouples, externally grounded (ALX-8421)													1									
	LW-14317*	ALTERNATOR, 12V - 70A, externally grounded (ALX-8421)														1								
	LW-14324*	ALTERNATOR, 24V - 70A, less thermocouples, externally grounded ALU-8421)														1								

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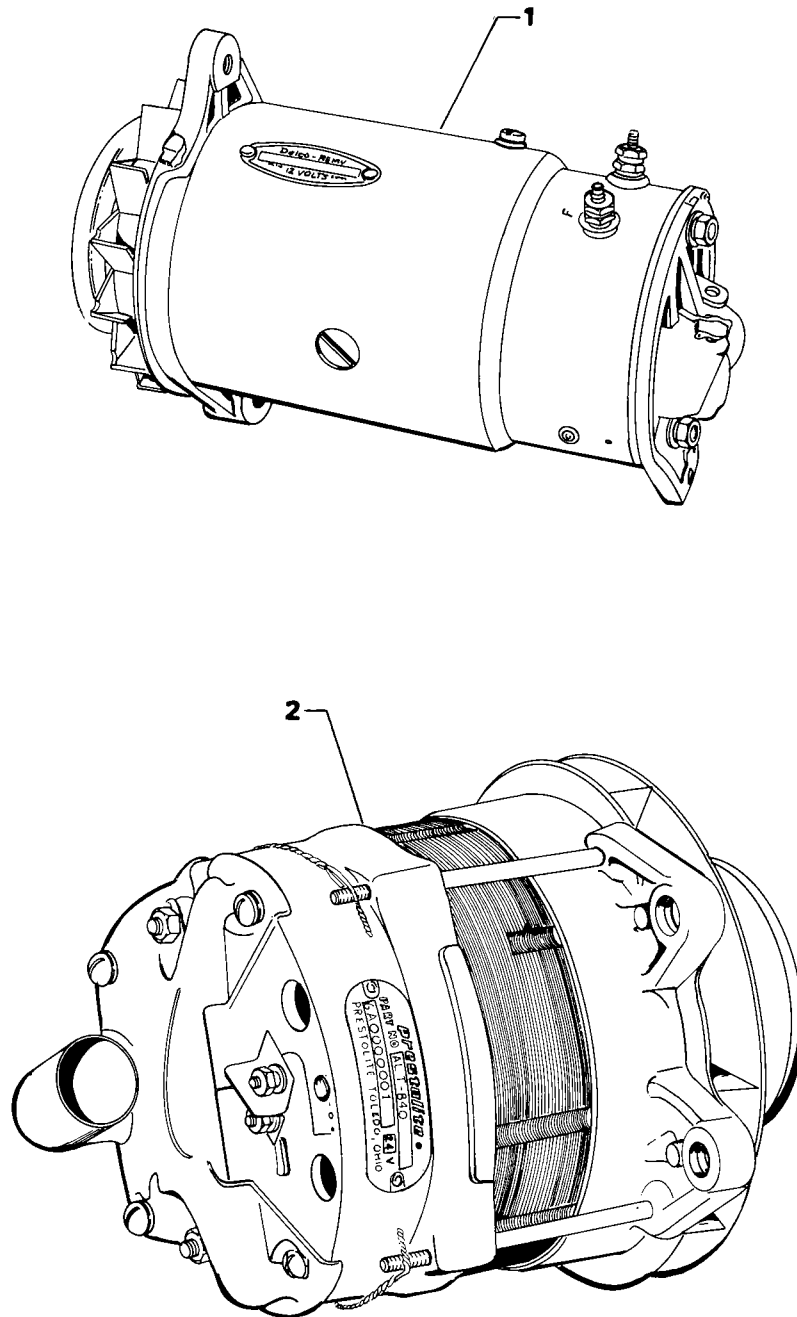


Figure 26. Generator and Alternator Assemblies

FIG. REF.	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																				
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C				
1	76210	STARTER, 12 volt, 10/12 pitch pinion (MZ-4204)			1	1	1	1	1	1	1	1	1	1	1	1	1	1						
	69953	STARTER, 24 volt; 10/12 pitch pinion (1109669)						1								1								
	LW-16207	STARTER, 24 volt, 10/12 pitch pinion (MMU-4001)													1	1			1					
	LW-15571	STARTER, 12 volt, 12/14 pitch pinion (MZ-4222)					1																	
2	STD-35	WASHER, 5/16 plain	4																					
3	STD-475	WASHER, 5/16 lock, internal teeth	4																					
4	LW-31-1.09	BOLT, 5/16-18 x 1-3/32 long, hex. hd.	4																					
5	STD-2156	BOLT, 5/16-18 x 1-5/32 long, hex. hd.					1																	
6	STD-1410	NUT, 5/16-18 plain					3																	
7	LW-12083	SWITCH, Magnetic (SAZ-4201-E-1)		1	1		1	1	1	1	1	1	1	1	1	1	1	1						
8	LW-12085	SWITCH, Magnetic (SAZ-4401C-1)					1									1								

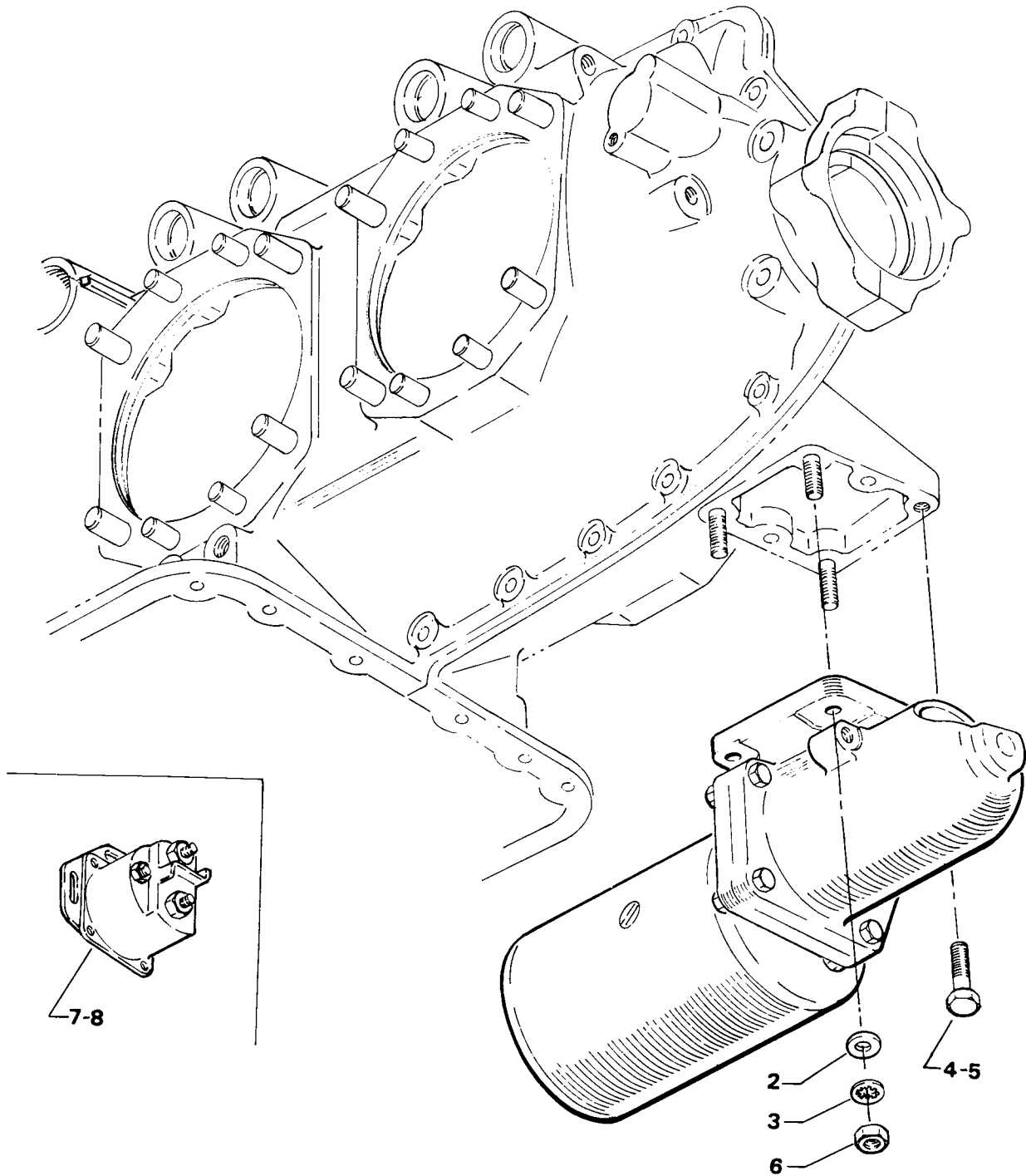
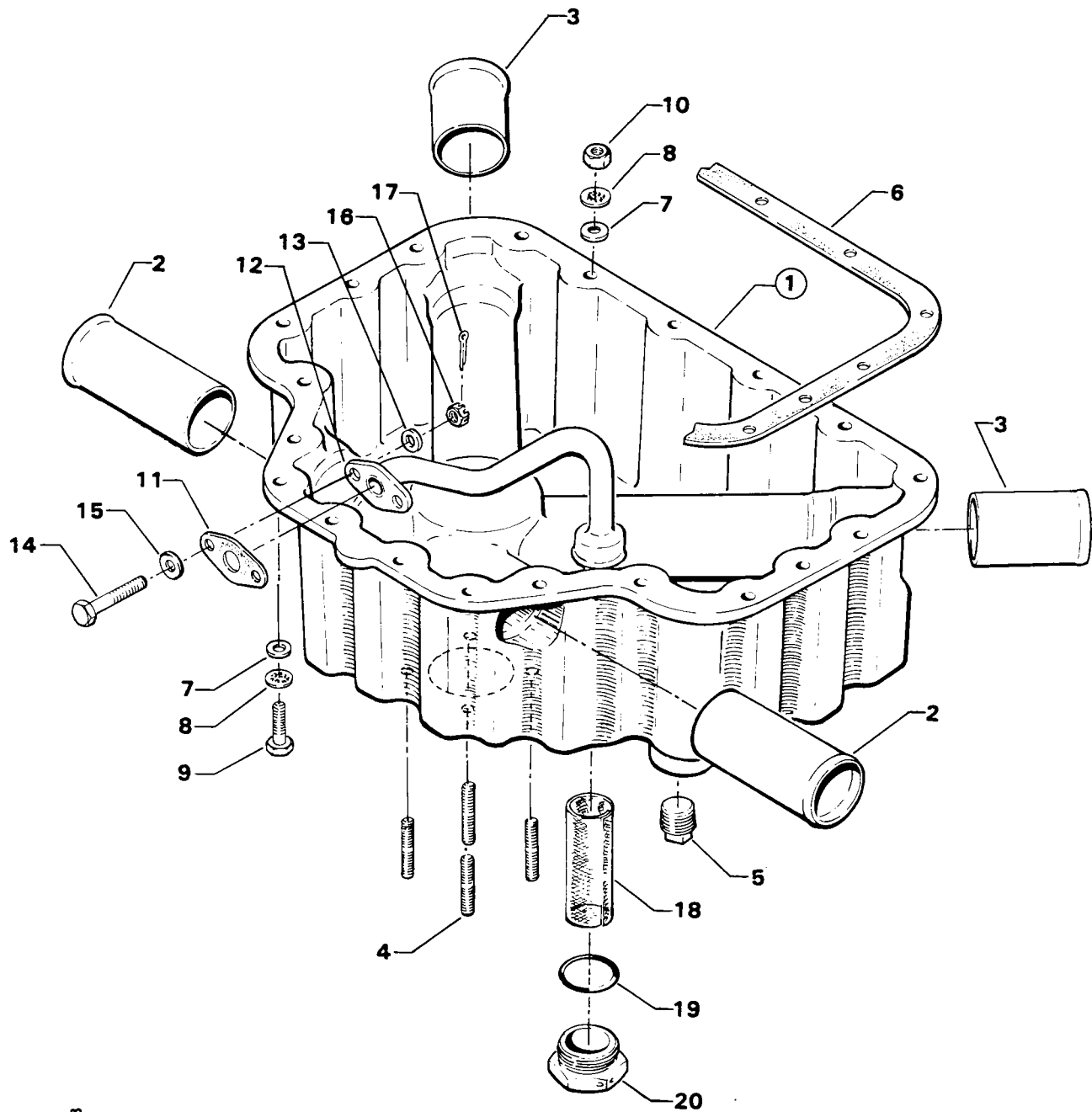


Figure 27. Starter Motor and Attaching Parts

O-235 SERIES PARTS CATALOG

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Figure 28. Oil Sump Assembly and Oil Suction Screen

O-235 SERIES PARTS CATALOG

INTAKE PIPE ASSEMBLY

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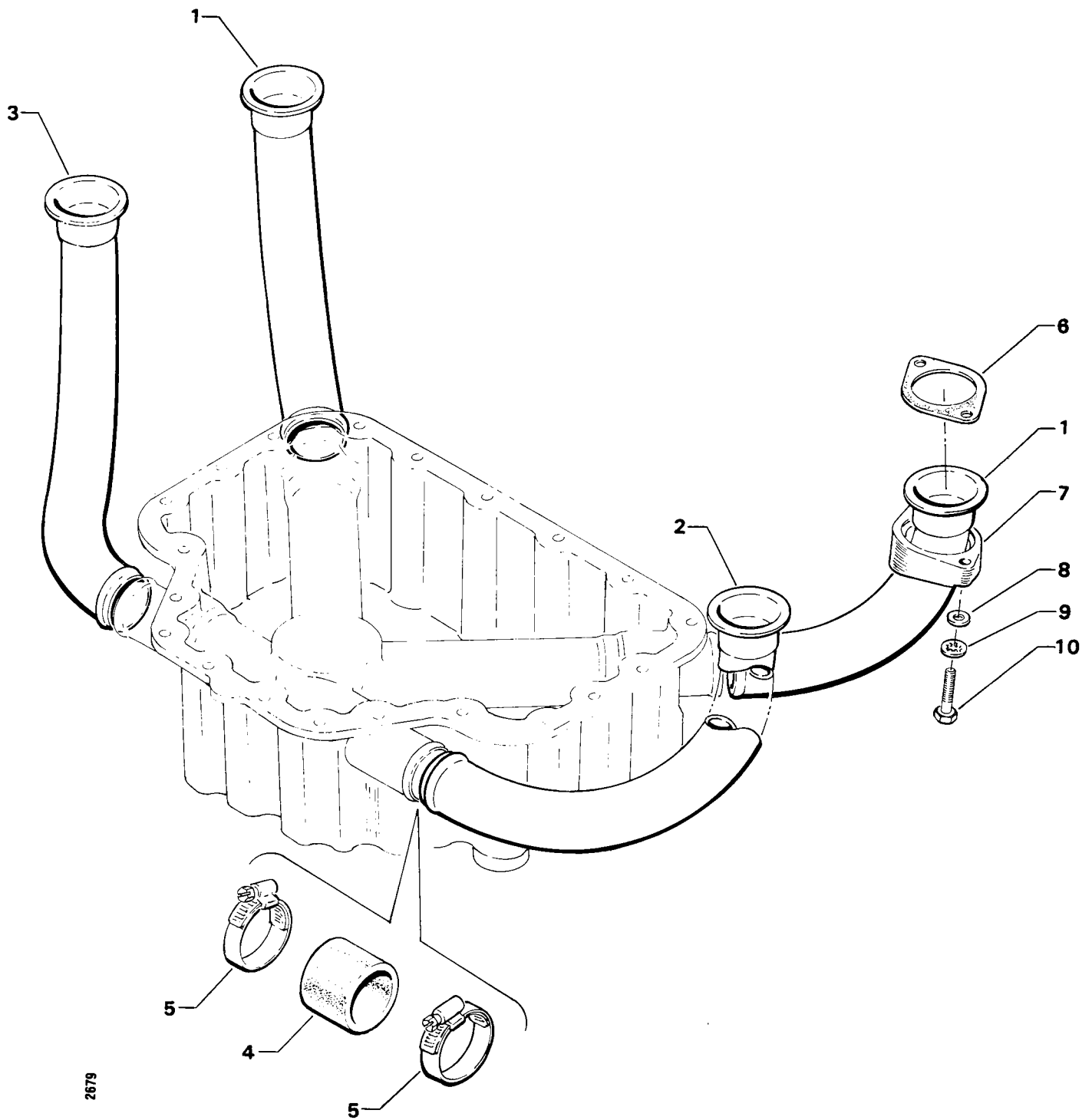


Figure 29. Intake Pipe Assembly

O-235 SERIES PARTS CATALOG

CARBURETOR ASSEMBLY

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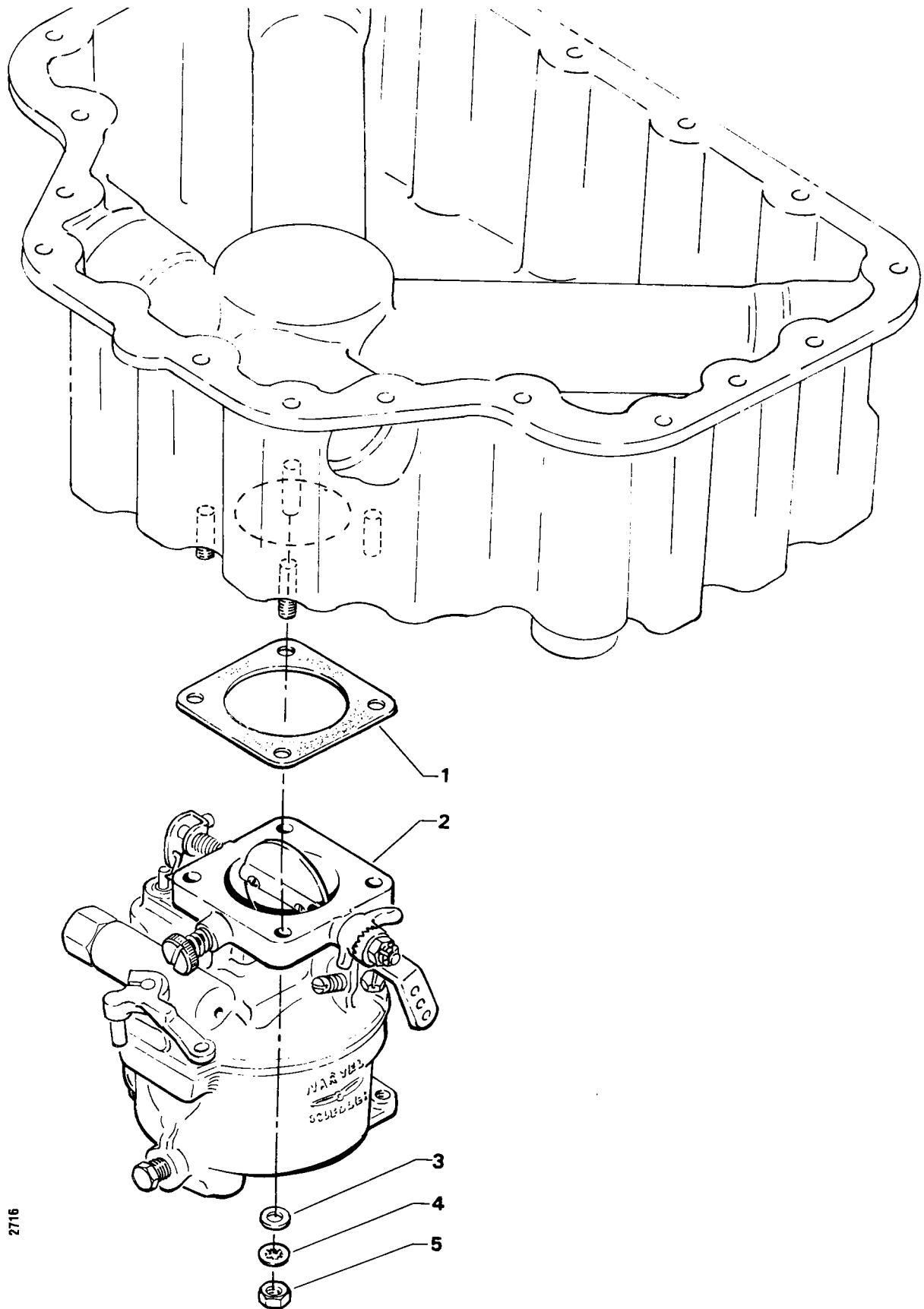


Figure 30. Carburetor Assembly

O-235 SERIES PARTS CATALOG

OIL SUMP AND INDUCTION SYSTEM PRIMING SYSTEM

FIG. REF. 31	PART NUMBER	DESCRIPTION	O N A L L	QUANTITY PER ASSEMBLY																					
				C 1	C 1 B	C 1 C	C 2 A	C 2 C	F 2 A	F 2 B	H 2 C	J 2 A	K 2 A	K 2 B	K 2 C	L 2 A	L 2 C	M 1	N 2 A	N 2 C					
1	1102*	PLUG, 1/8-27 NPT, Allen hd.	4																						
2	LW-12098-1-170	TUBE ASSY., Primer cylinders,																							
		nos. 1 & 2		2	2		2	2	2	2				2		2	2								
3	LW-12098-1-116	TUBE ASSY., Primer cylinders,																							
		nos. 3 & 4		2	2		2	2	2	2				2		2	2								
4	LW-12098-0-100	TUBE ASSY., Primer, intermediate		2	2		2	2	2	2				2		2	2								
5	LW-16266-25-13	CLAMP		4	4		4	4	4	4				4		4	4								
6	71909	CLAMP, 1-1/2 ID with 1/4 dia. offset		4	4		4	4	4	4				4		4	4								
7	STD-553	SCREW, No. 6-32 x 1/2 long, rd. hd.		4	4		4	4	4	4				4		4	4								
8	AN365-632A	NUT, No. 6-32, self-locking		4	4		4	4	4	4				4		4	4								
9	STD-853	TEE, Union, 1/8 tube		3	3		3	3	3	3				3		3	3								
10	74225	NIPPLE ASSY., Primer		4	4		4	4	4	4				4		4	4								

* Assemble in cylinder heads.

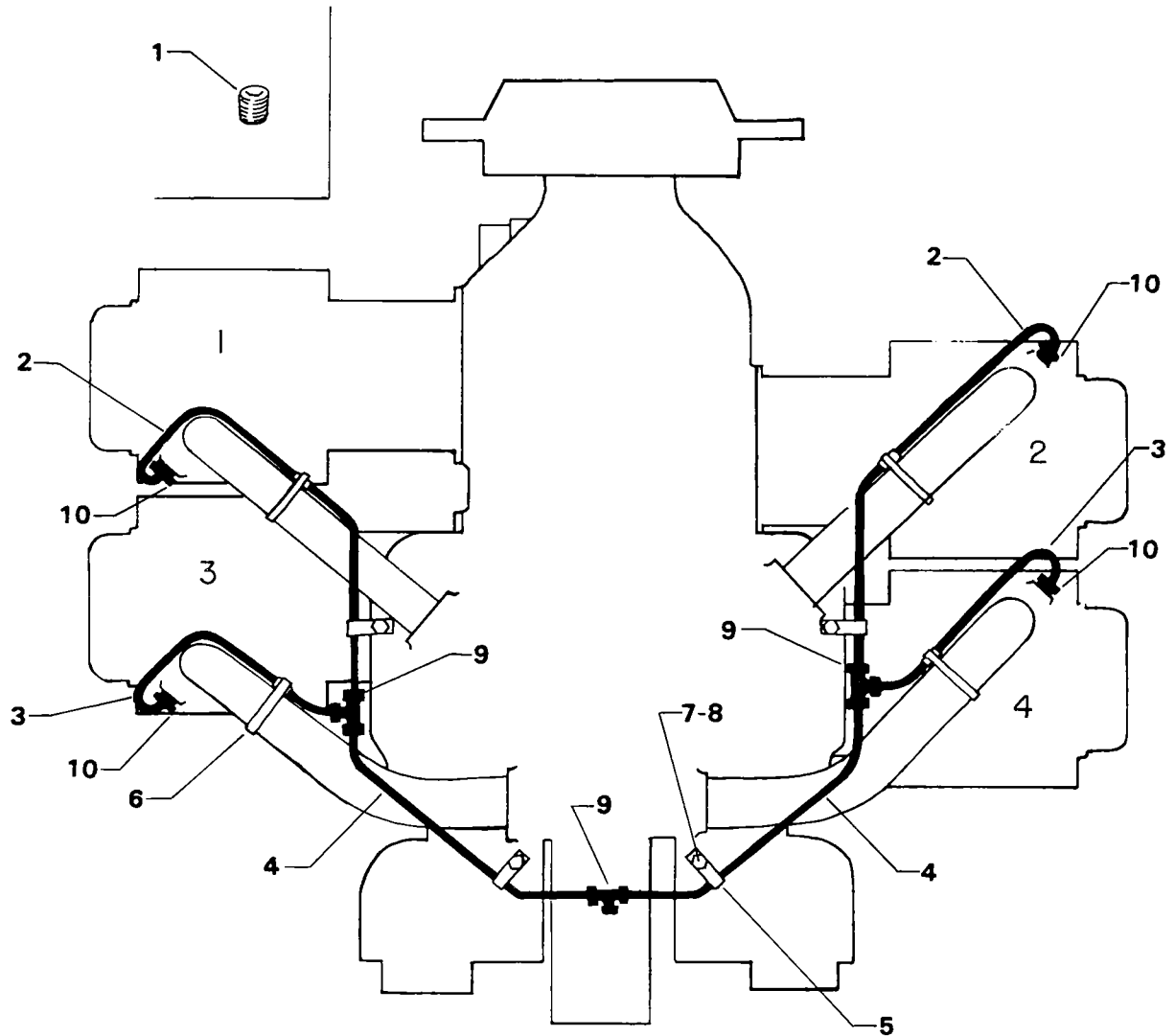


Figure 31. Priming System

SECTION 7
SERVICE KIT SECTION
SEAL AND GASKET SET
O-235 SERIES

Part No.	Part Name	Qty.
61499-1	SEAL AND GASKET SET	1
STD-111	GASKET	1
STD-208	SEAL, Oil	1
STD-294	GASKET, Annular	2
STD-1045	GASKET, Annular	2
8313	GASKET, Vac. pump	2
60096	GASKET, Fuel pump	1
60592	GASKET, Carb.	1
60820	GASKET, Oil suction tube flange	1
LW-18639	LOCKPLATE, Crankshaft gear	1
LW-14260	SEAL, Tach. shaft	1
61173	GASKET, Oil press. hsg.	1
61183	GASKET, Accy. adapter	1
61523	CONTAINER	1
61531	GASKET, Hydraulic valve	1
62224	GASKET, Mag. adapter	3
LW-18661	SEAL, Shroud tube	16
65321	GASKET, Exhaust flange	4
68315	GASKET, Accy. dr. adapter	1
LW-13353	GASKET, Oil sump	1
71973	GASKET, Intake flange	4
72053	GASKET, Gov. drive	1
72059	GASKET	1
72078	LOCKPLATE, Cam gear	2
72091	RING, Oil seal	8
73383	LOCKPLATE	1
73817	LOCKPLATE, Camshaft idler gear shaft	2
73818	GASKET, Accy. hsg.	1
74065	RING, Oil level gage seal	1
74068	RING, Oil level gage seal	1
75906	GASKET, Rocker box cover	4
76940	SEAL, Crankshaft oil	1
LW-13792	SEAL, Crankshaft oil	1
LW-12681	GASKET, Mag.	2
LW-12795	GASKET	1
LW-11632	RING, Oil seal	6
62869	RING, Cyl. base	4
LW-12040	TOP OVERHAUL GASKET SET	1
62869	SEAL, Cylinder base	4
LW-18661	SEAL, Shroud tube	16
71973	GASKET, Intake, 2 bolt flange	4
75906	GASKET, Rocker box cover	4

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-C1, -C1B, -C2A, -C2C, -H2C

Part No.	Part Name	Qty.
75805	CYLINDER, PISTON AND RING ASSY.	1
LW-16701	CYLINDER AND HEAD ASSY.	1
66429	VALVE, Intake	1
66531	VALVE, Exhaust	1
LW-13320	SEAT, Valve spring, inner spring	2
61252	SEAT, Valve spring, outer spring	2
LW-11800	SPRING, Valve, outer	2
LW-11795	SPRING, Valve, auxiliary	2
LW-10077	SEAT, Valve spring	2
60009	KEY, Valve	4
60831	ROCKER ASSY., Valve	2
LW-13790	SHAFT, Valve rocker	1
1102	PLUG, .125 pipe x .375 long (socket)	1
75906	GASKET, Rocker box cover	1
61247	COVER, Rocker box	1
STD-1925	SCREW, .250-20 x .63 long fill. head, self-locking	6
73807	SCREW, Valve adjusting	2
STD-587	NUT, .5625-18 x .16 thick	2
71195	BOX, Set-up	1
73851	PISTON	1
60827	PIN, Piston	1
60828	PLUG, Piston pin	2
LW-13672	RING, Piston, top compression	1
LW-13658	RING, Piston, scraper	1
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
LW-12892	BUTTON, Thrust	2
STD-1215	BOLT	2
73806	PUSH ROD ASSY.	2
LW-16867	RING, Oil regulator	1

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-F2A, -F2B, -J2A

Part No.	Part Name	Qty.
LW-12591	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
LW-13790	SHAFT, Valve rocker	1
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
LW-13445	PIN, Piston	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulator	1
LW-10077	SEAT, Valve spring	2
LW-11621	PISTON	1
LW-11625	PLUG, Piston pin	2
LW-11633	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-11901	VALVE, Intake	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-K2A, -K2B, -K2C, -L2A, -L2C, -M1

Part No.	Part Name	Qty.
LW-13969	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
LW-13790	SHAFT, Valve rocker	1
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner spring	2
61252	SEAT, Valve spring, outer spring	2
62869	RING, Oil seal, cylinder base	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulating	1
LW-10077	SEAT, Valve spring	2
LW-11625	PLUG, Piston pin	2
LW-11633	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve auxiliary	2
LW-11800	SPRING, Valve outer	2
LW-11901	VALVE, Intake	1
LW-13445	PIN, Piston	1
LW-13623	PISTON	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-C1, -C1B, -C2A, -C2C, -H2C

Part No.	Part Name	Qty.
LW-14126	CYLINDER, PISTON AND RING ASSEMBLY	1
60009	KEY, Valve	4
60037	VALVE, Intake	1
60072	RING, Piston, scraper	1
LW-13790	SHAFT, Valve rocker	1
60827	PIN, Piston	1
60828	PLUG, Piston pin	2
60831	ROCKER ASSY., Valve	2
LW-16867	RING, Piston, oil regulating	1
61247	COVER, Rocker box	1
61251	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
62869	RING, Oil seal, cylinder base	1
LW-18661	SEAL, Shroud tube	4
68196	RING, Piston, compression	2
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
73851	PISTON	1
75906	GASKET, Rocker box cover	1
73806	PUSH ROD ASSY.	2
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
LW-10077	SEAT, Valve spring	2
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-12986	CYLINDER ASSY., Plain	1
LW-12892	THRUST BUTTON	2

SECTION 7
SERVICE KIT SECTION
CYLINDER, PISTON AND RING ASSY.
O-235-N2C

Part No.	Part Name	Qty.
LW-18660	CYLINDER, PISTON AND RING ASSEMBLY	1
STD-587	NUT, 9/16-18 x 5/32 thick	2
STD-1215	BOLT	2
STD-1925	SCREW, 1/4-20 x 5/8 long, fill. hd.	6
1102	PLUG, 1/8 pipe x 3/8 long, socket	1
60009	KEY, Valve	4
60831	ROCKER ASSY., Valve	2
61247	COVER, Rocker box	1
LW-13320	SEAT, Valve spring, inner	2
61252	SEAT, Valve spring, outer	2
LW-13790	SHAFT, Valve rocker	1
62869	RING, Oil seal (cylinder base)	1
LW-18661	SEAL, Shroud tube	4
71195	BOX, Set-up	1
73807	SCREW, Valve adjusting	2
75906	GASKET, Rocker box cover	1
LW-13445	PIN, Piston	1
78862	RING, Piston compression	2
78864	RING, Piston, oil regulator	1
LW-10077	SEAT, Valve spring	2
LW-13623	PISTON	1
LW-11625	PLUG, Piston pin	2
LW-18290	CYLINDER ASSY., Nitrided	1
LW-11634	VALVE, Exhaust	1
LW-11795	SPRING, Valve, auxiliary	2
LW-11800	SPRING, Valve, outer	2
LW-11901	VALVE, Intake	1
LW-12892	THRUST BUTTON	2

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LYCOMING

SERIES PARTS CATALOG