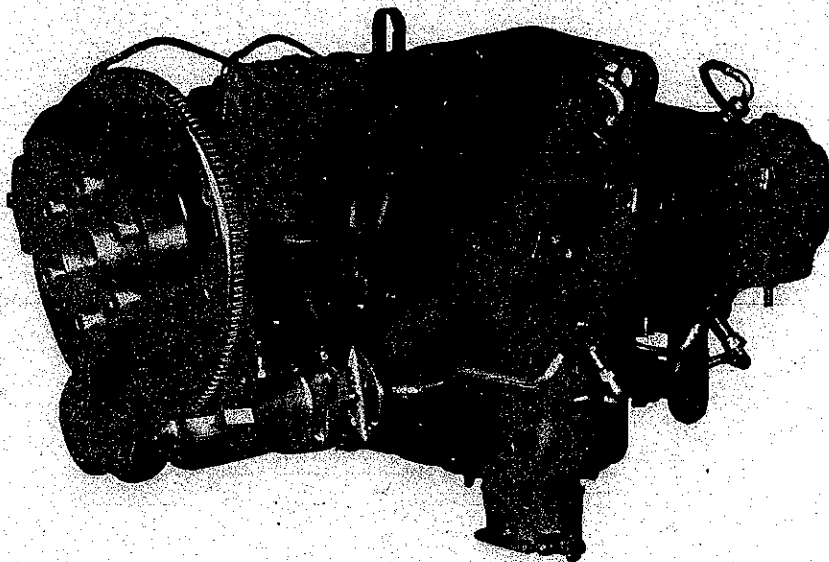


PARTS CATALOG

AVCO LYCOMING

**O-320, IO-320 & LIO-320
SERIES**

AIRCRAFT ENGINES



PC-103

AVCO LYCOMING DIVISION WILLIAMSPORT, PA.

TECHNICAL PUBLICATION SUPPLEMENT

SUPPLEMENT No.	ENGINE MODEL	PUBLICATION No.	PUBLICATION DATE
SSP-488	O-320, IO-320 and LIO-320 Series	PC-103	April, 1970

This supplement is arranged in the same basic format as the original parts catalog
Insert in front of catalog for useage of subject matter.

August, 1988
Page 1 of 1
Figure 1-3, Crankshaft Assembly

Superseded Engine Model	Propeller Bushings	Superseded By	Engine Model	Propeller Bushings
O-320* <small>No Letter Designation</small>	3/8 inch	-----	O-320-A3A**	7/16 inch
O-320-A1A	3/8 inch	-----	O-320-A3A**	7/16 inch
O-320-A1B	3/8 inch	-----	O-320-A3B**	7/16 inch
O-320-B1A	3/8 inch	-----	O-320-B3A**	7/16 inch
O-320-B1B	3/8 inch	-----	O-320-B3B**	7/16 inch

* Same as O-320-A1A.

** Parts for this engine are currently listed in PC-103 Parts Catalog dated April, 1970.

NOTE

This supplemental parts list and illustration provides an engine parts comparison between current and superseded engine models.

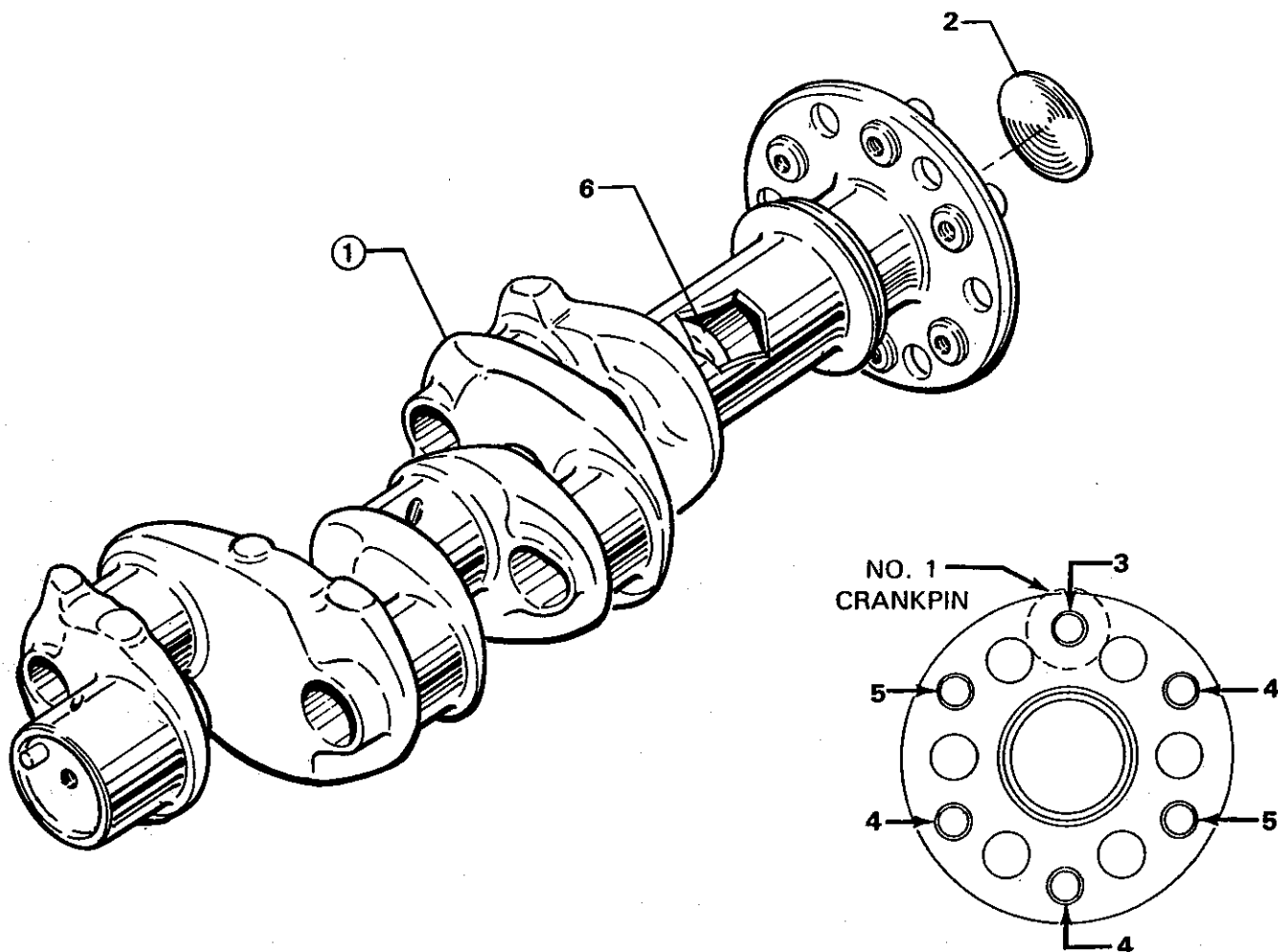
All parts for engine models in the above chart marked with an asterisk (*) are the same as parts for the superseded engine models with the exception of the Crankshaft Assy. and propeller mounting bushings and locations.

Williamsport Plant

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP **CRANKSHAFT AND RELATED PARTS**

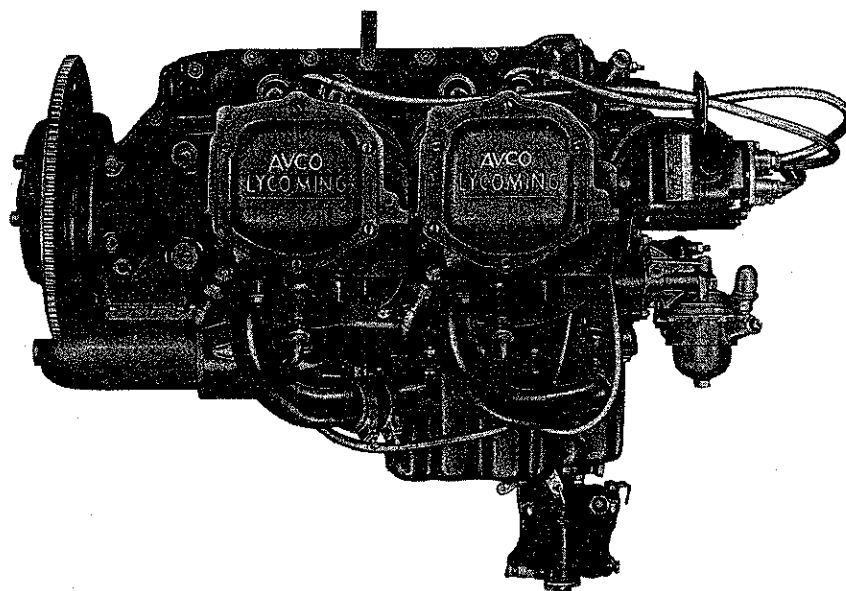
FIG. REF. 1-3	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY											
			O-320, O-320-A1A, A1B, B1A and B1B											
1	68864 *	CRANKSHAFT ASSEMBLY	1											
2	STD-1211	PLUG, 2.00 dia. expansion	1											
3	72066-S	BUSHING, Propeller flange, index	1											
4	72067-S	BUSHING, Propeller flange	3											
5	72068-S	BUSHING, Propeller flange, short	2											
6	61510	PLUG, 1-3/4 O.D.	1											

* No longer available. Order Crankshaft Assembly Part No. 75011 as a replacement. Refer to latest edition of Service Instruction No. 1098 for bushing application.



AVCO LYCOMING

PARTS CATALOG



O-320, 10-320 & L10-320

SERIES

AIRCRAFT ENGINES



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-320, IO-320, LIO-320 SERIES

INTRODUCTION

1. GENERAL.

This illustrated parts catalog lists and describes all procurable parts for the Avco Lycoming engines listed herein.

2. SUPERSEDURE SECTION.

This section lists part numbers in numerical sequence, first by superseded number to the new, or superseding part number. The second portion of this section lists the superseding, or new part number to the old or superseded number.

3. GROUP ASSEMBLY PARTS LISTS.

This catalog is laid out in graph format indicating engine model number on each text page.

The sections of this catalog divide the engine into various assemblies and related parts. These parts are listed in the order of engine assembly at the factory. Illustrations are on the page directly opposite or beneath the part description.

The "Figure Reference Number" column (with heading "REF") provides cross reference to the part illustration. Those parts not numbered in this column are not illustrated.

The "Part Number" column contains the Avco Lycoming, AN, MS, or vendor part number.

The "Description" column provides description or dimensional information required to describe the part. Sub-columns are employed here to differentiate parts of assemblies or sub-assemblies. Notes appearing in the text should be checked prior to ordering parts. All references to Avco Lycoming Service Bulletins, Instructions and Letters should be fully observed. The letters (STD) appearing beside the part description means this part fits an engine manufactured with the Standard cylinder base flange. The letters (WCF) means this part fits an engine manufactured with the wide cylinder base flange. When neither appears in the description column, the part is applicable to either configuration.

The "Quantity Per Assembly" portion of the text page indicates by model number the quantity required to complete the assembly on that page.

4. SERVICE REPLACEMENT SET SECTION.

This section consists of the seal and gasket set applicable to the O-320 series engine. Individual parts contained in kits are also listed in the group assembly parts list and may be procured separately.

5. VENDOR ITEMS SECTION.

This section consists of assemblies produced by manufacturers other than Avco Lycoming, for use on Avco Lycoming engines. Numbers in "Part Number" column are those of the particular vendor. Parts for these assemblies can be obtained by ordering from Avco Lycoming, Williamsport, Pa.

6. NUMERICAL INDEX.

This section lists all part numbers contained in the group assembly parts list (Sections 1 thru 7), in alpha-numerical sequence. Column headings are self-explanatory.

7. INSTRUCTIONS FOR ORDERING PARTS.

Use of this catalog is keyed to engine model number. The model number can best be determined by visual inspection of the name plate located on the oil sump. Series of engines identified by the letter "A" following the serial number suffix are manufactured with the wide cylinder base flange. Example: O-320-A, Serial Number L-12093-39A.

After engine model number and type cylinder flange is determined, look in the Table of Contents for the part, or for the assembly on which it would normally be found. If the part number is known, look in the numerical index (Section 10) in the back of the catalog. The illustrations can also be used to aid in finding the part.

8. OPTIONAL ITEMS.

Those optional items, such as electrical system components, vacuum and hydraulic dual drives etc., are catalogued by engine model number as the engine was assembled at the factory. See appropriate Service Instructions for further information. Use the illustrations to aid in determining the option you desire.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-320, IO-320, LIO-320 SERIES

TABLE OF CONTENTS

SECTION	PAGE
INTRODUCTION	i
TABLE OF CONTENTS	ii
SUPERSEDURE SECTION	iv
1. Crankcase, Crankshaft and Camshaft	
Crankcase Assembly.	1-1
Crankcase Related Parts	1-2
Crankshaft Assembly	1-3
Connecting Rod	1-4
Camshaft	1-4
Crankcase Attaching Parts	1-5
Support Assembly, Starter Ring Gear	1-6
Accessory Idler Shafts	1-6
Propeller Flange and Spacer	1-6
Fuel Pump Drive and Idler Gears	1-7
2. Accessory Housings and Drives	
Accessory Housing - Separate Cam Gear	2-1
Accessory Housing - Integral Cam Gear	2-2
Oil Pump	2-3
Accessory Housing Attaching Parts.	2-3
Oil Cooler and Oil Filter	2-4
Vacuum Pump Drive.	2-5
Dual Drive, Vacuum Pump and Hydraulic Pump	2-5
Dual Drive, Vacuum Pump and Propeller Governor.	2-5
Propeller Governor Drive Shaftgear	2-6
Cover, Vacuum Pump	2-6
Cover, Vacuum and Hydraulic Pump	2-6
Cover, Fuel Pump	2-6
Propeller Governor Drive Adapter	2-7
Cover, Governor Drive.	2-7
Cover, Governor Drive Adapter	2-7
Sump Assembly	2-8
Sump Assembly	2-9
3. Cylinder, Piston and Valve Train	
Cylinder, Piston, Ring and Valve Application	3-1
Cylinder Assembly	3-2
Valve Seats and Guides	3-2
Spark Plug Inserts	3-2
Valves, Springs and Plungers	3-3
Shroud Tubes	3-3
Valve Rocker Assemblies	3-4
Valve Push Rods	3-4
Valve Rocker Drain Tubes.	3-4
Intake Pipes	3-4
4. Ignition System	
Magnetos	4-1
Unshielded Harness	4-2
Harness Assy., 5MM, Avco Lycoming	4-3
Harness Assy., Scintilla, -1200 Series Magnetos	4-4
Harness Assy., Scintilla, -200 Series Magnetos	4-5
Harness Assy., Slick	4-6
Spark Plug	4-7
5. Electrical System	
Generator/Alternator Brackets, Standard Cylinder Flange Engines	5-1
Generator/Alternator Brackets, Wide Cylinder Flange Engines.	5-2

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-320, IO-320, LIO-320 SERIES

TABLE OF CONTENTS (CONT.)

SECTION	PAGE
5. Electrical System (Cont.)	
Generator/Alternator	5-3
Generator/Alternator Drive Belt.	5-4
Starter	5-4
Magnetic Switch	5-4
Voltage Regulator and Relay	5-5
6. Fuel Induction System	
Fuel Pump	6-1
Carburetor	6-2
Fuel Injector	6-3
Fuel Injection Tubes.	6-4
Priming System	6-5
7. Cooling Baffles, Exhaust, Oil Gage and Propeller Governor Oil Line	
Intercylinder Cooling Baffles	7-1
Exhaust Flanges and Gaskets	7-2
Oil Level Gages	7-3
Propeller Governor Oil Line	7-4
8. Service Replacement Set Section.	8-1
9. Vendor Accessories	
Delco-Remy Generator	9-1
Delco-Remy Alternator.	9-2
Prestolite Alternator	9-3
Prestolite Starter.	9-4
Bendix Scintilla Magnetos:	
-20 Series	9-5
-200 Series.	9-6
-1200 Series	9-7
Lear-Siegler Fuel Pump	9-8
Marvel-Schebler Carburetor	9-9
Bendix Fuel Injector.	9-10
10. Numerical Index	10-1

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-320, IO-320 AND LIO-320 SERIES

SUPERSEDURE SECTION

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDED PARTS

SUPERSEDED P/N	SUPERSEDING P/N	SUPERSEDED P/N	SUPERSEDING P/N
180G	72378	69472	73414
179B	72053	69529	72877
STD-189	73726	69530	72058
STD-336	72075	69533	74230
STD-998	72091	69787	72500
45663	62224	69952	76210
60007	74667	71010	75722
60069	73346	71019	72501
60131	71973	71026	72502
60828	72198	71118	71840
60861	76028	71119	71841
60869	71596	71692	72153
60984	76354	71693	71844
61152	75072	71714	76529
61154	77309	71840	75183
61164	72970	71841	75184
61167	68974	71844	73149
61246	75906	71879	76940
61278	74996	71939	74673
61352	73818	71950	74646
61388	62833	71969	75188
61476-S	78030-S	72059	74068
61502	71398	72220	74065
61654	73246	72362	77965
61667	71397	72373	75767
61864	73817	72387	76517
62831	72205	72394	78728
65060	66224	72446	74241
65074	78524	72454	73857
65331	71909	72454	73998
65427	76994	72462	76212
66144	72078	72525	73360
66220	71913	72625	73938
66734	69377	72871	72000
67904	72057	73048	77034
67975	73729	73049	LW-10124
68327	LW-10077	73115	LW-10076
68509	72454	73160	LW-10799
68512	74989	73149	75361
68513	74989	73196	74059
68519	69444	73817	72829
68531	75545	73820	78292
68613	72079	74059	75413
68634	72498	74061	68512
68710	77857	74061	68513
68749	72230	74083	LW-10828
68751	69679	74092	76211
68759	73317	74322	76026
68769	74167	74386	75278
68867	74414	74530	75089
68923	72150	74591	LW-10475
68987	75772	74593	74732
69000	75153	74667	78027
69097	75735	74904	76691
69098	75736	75009	77547
69158	72231	75028	75012
69161	75924	75044	75317
69315	73231	75044	75042
69451	75944	75065	75010
69470	73412	75067	75011
69470-1	73411	75148	75246
69471	73413	75210	77044

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDED PARTS

SUPERSEDED P/N	SUPERSEDING P/N	SUPERSEDED P/N	SUPERSEDING P/N
75317	75868	76907	LW-10729
75674	77526	76954	78206
75709	78368	76991	78542
75854	75907	76992	78539
76082	77597	76995	78540
76163	77808	77096	78547
76290	78290	77344	78308
76436	76628	77345	LW-10185
76588	78217	77346	78312
76590	78220	77347	LW-10179
76602	78221	77470	78310
76721	LW-10389	77751	78314
76722	LW-10388	78206	LW-11062
76726	LW-10400	78218	78226
76855	LW-10390	78219	78228
76871	78546		

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDED PARTS

SUPERSEDING P/N	SUPERSEDED P/N	SUPERSEDING P/N	SUPERSEDED P/N
62224	45663	74230	69533
62833	61388	74241	72446
66224	65060	74414	68867
68512	74061	74646	71950
68513	74061	74667	60007
68974	61167	74673	71939
69377	66734	74732	74593
69444	68519	74989	68512
69679	68751	74989	68513
71397	61667	74996	61278
71398	61502	75010	75065
71596	60869	75011	75067
71840	71118	75012	75028
71841	71119	75042	75044
71844	71693	75072	61152
71909	65331	75089	74530
71913	66220	75153	69000
71973	60131	75183	71840
72000	72871	75184	71841
72053	179B	75188	71969
72057	67904	75246	75148
72058	69530	75278	74386
72075	STD-336	75317	75044
72078	66144	75361	73149
72079	68613	75413	74059
72091	STD-998	75545	68531
72150	68923	75722	71010
72153	71692	75735	69097
72198	60828	75736	69098
72205	62831	75767	72373
72230	68749	75772	68987
72231	69158	75868	75317
72378	180G	75906	61246
72454	68509	75907	75854
72498	68634	75924	69161
72500	69787	75944	69451
72501	71019	76026	74322
72502	71026	76028	60861
72829	73817	76210	69952
72877	69529	76211	74092
72970	61164	76212	72462
73149	71844	76354	60984
73231	69315	76517	72387
73246	61654	76529	71714
73317	68759	76628	76436
73346	60069	76691	74904
73360	72525	76940	71879
73411	69470-1	76994	65427
73412	69470	77034	73048
73413	69471	77044	75210
73414	69472	77309	61154
73726	STD-189	77526	75674
73729	67975	77547	75009
73817	61864	77597	76082
73818	61352	77808	76163
73857	72454	77857	68710
73938	72625	77965	72362
73998	72454	78027	74667
74059	73196	78030-S	61476-S
74065	72220	78206	76954
74068	72059	78217	76588
74167	68769	78220	76590

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDED PARTS

SUPERSEDING P/N	SUPERSEDED P/N	SUPERSEDING P/N	SUPERSEDED P/N
78221	76602	78728	72394
78226	78218	LW-10076	73115
78228	78219	LW-10077	68327
78290	76290	LW-10124	73049
78292	73820	LW-10179	77347
78308	77344	LW-10185	77345
78310	77470	LW-10388	76722
78312	77346	LW-10389	76721
78314	77751	LW-10390	76855
78368	75709	LW-10400	76726
78524	65074	LW-10475	74591
78539	76992	LW-10729	76907
78540	76995	LW-10799	73160
78542	76991	LW-10828	74083
78546	76871	LW-11062	78206
78547	77096		

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-320, IO-320 AND LIO-320 SERIES

SECTION 1

CRANKCASE, CRANKSHAFT AND CAMSHAFT

SECTION

QUESTION

1

PAGE

LIO-320

LIO-320

1-1

1-1

1-1

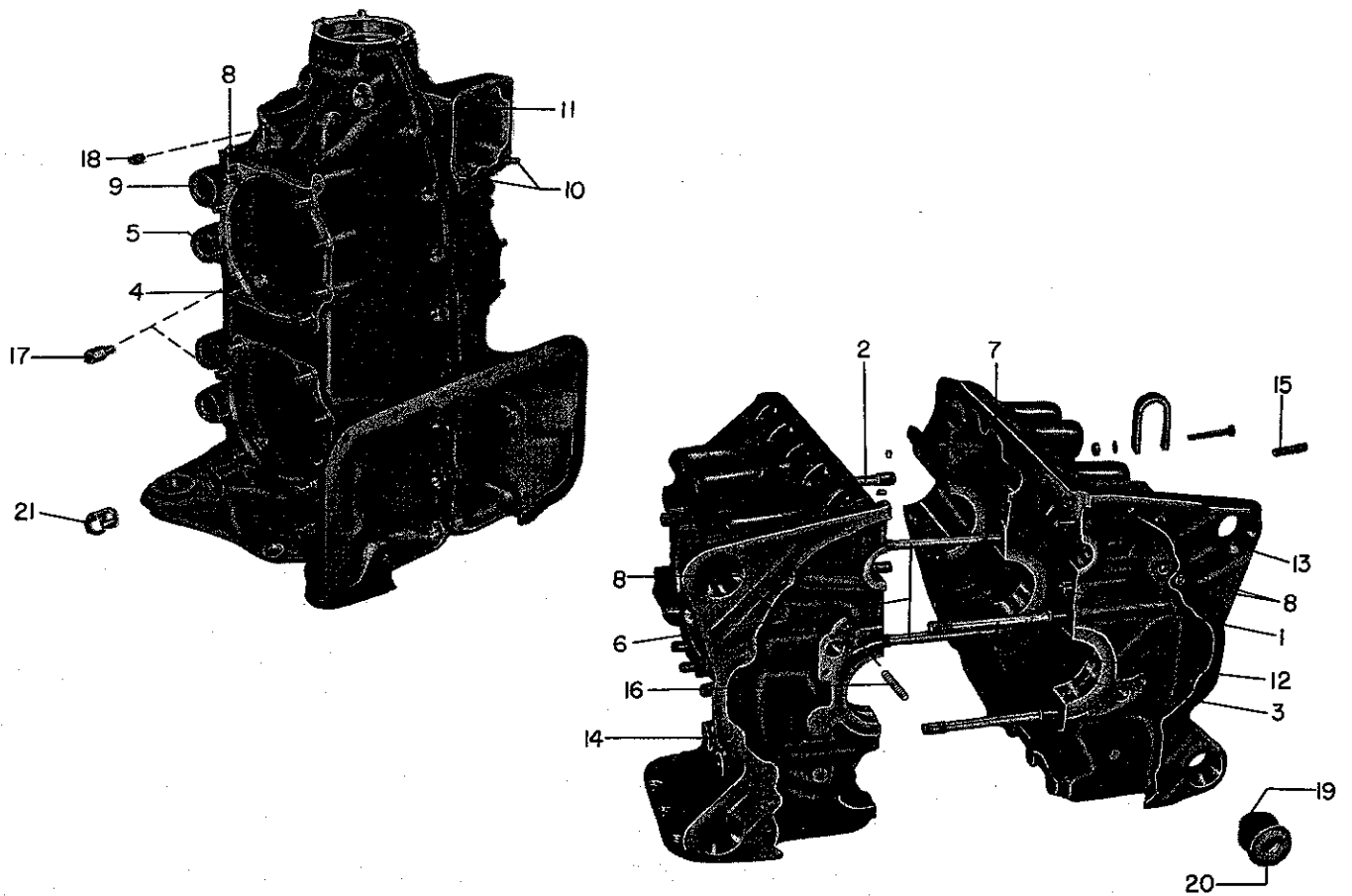


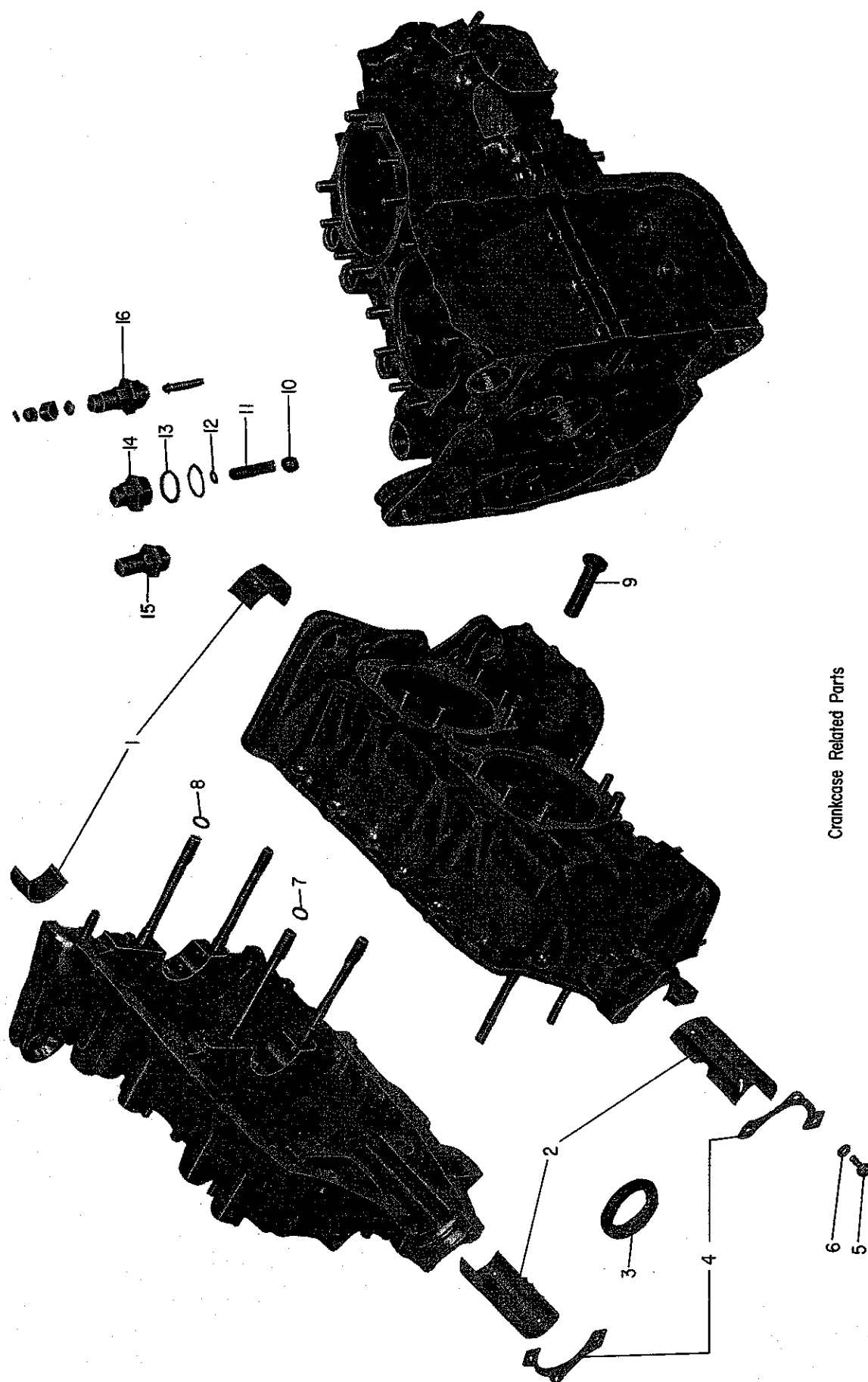
Figure 1-1. Crankcase Assembly

SECTION

QUANTITY PER ASSEMBLY

SECTION 1

PAGE
1-2



Crankcase Related Parts

Figure 1-2. Crankcase Related Parts

SECTION
1
PAGE
1-3

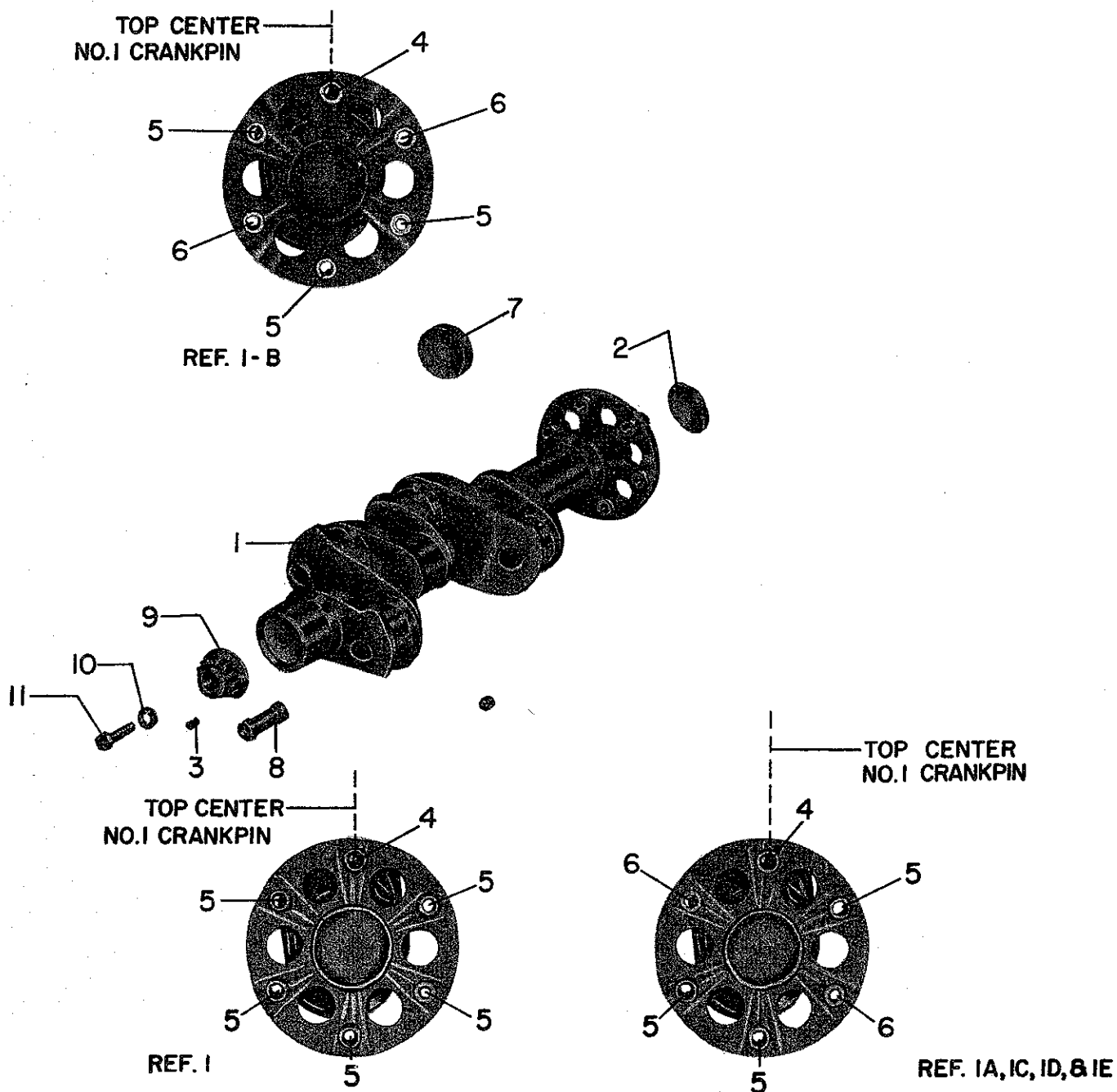


Figure 1-3. Crankshaft Assembly

CONNECTING ROD AND CAMSHAFT

QUANTITY PER ASSEMBLY

SECTION
1
PAGE
1-4

F.	PART NUMBER	DESCRIPTION	O-320 SERIES																					
			IO-320												LIO-320									
			A1A	A2B	A3A	A3B	B2A	B2B	B3A	B3B	D1A	D2A	D3A	E1A	E2A	E3A	E3B	E3D	B1A	B1C	C1A	D1A	E1A	E1B
	78030-S	CONNECTING ROD (Supersedes 61476-S)	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4
	61476-S	CONNECTING ROD (Superseded by 78030-S)	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4
	65819	BUSHING, Connecting rod	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4
	78027	BOLT, Connecting rod (use with 78030 rod)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		8	8	8	8	8
	74667	BOLT, Connecting rod, (use with 61476 rod)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		8	8	8	8	8
	74646	NUT, Connecting rod	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		8	8	8	8	8
	69373*	BEARING, Connecting rod	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		8	8	8	8	8
	76097	CAMSHAFT, Integral gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	
	76098	CAMSHAFT, Integral gear																						
	LW-10566	CAMSHAFT, Integral gear																						
	74167**	CAMSHAFT ASSY.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	
	68769**	CAMSHAFT ASSY.																						
	STD-1065**	DOWEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1
	68639**	GEAR, Camshaft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1
	72079**	SLINGER, Breather	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1
	72078**	LOCKPLATE, 5/16 bolt	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2
	STD-1791**	BOLT, 5/16-24	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4
		* - Available in undersize M03, M06 and M10.																						
		** - Use these parts for camshafts forged without integral gears.																						

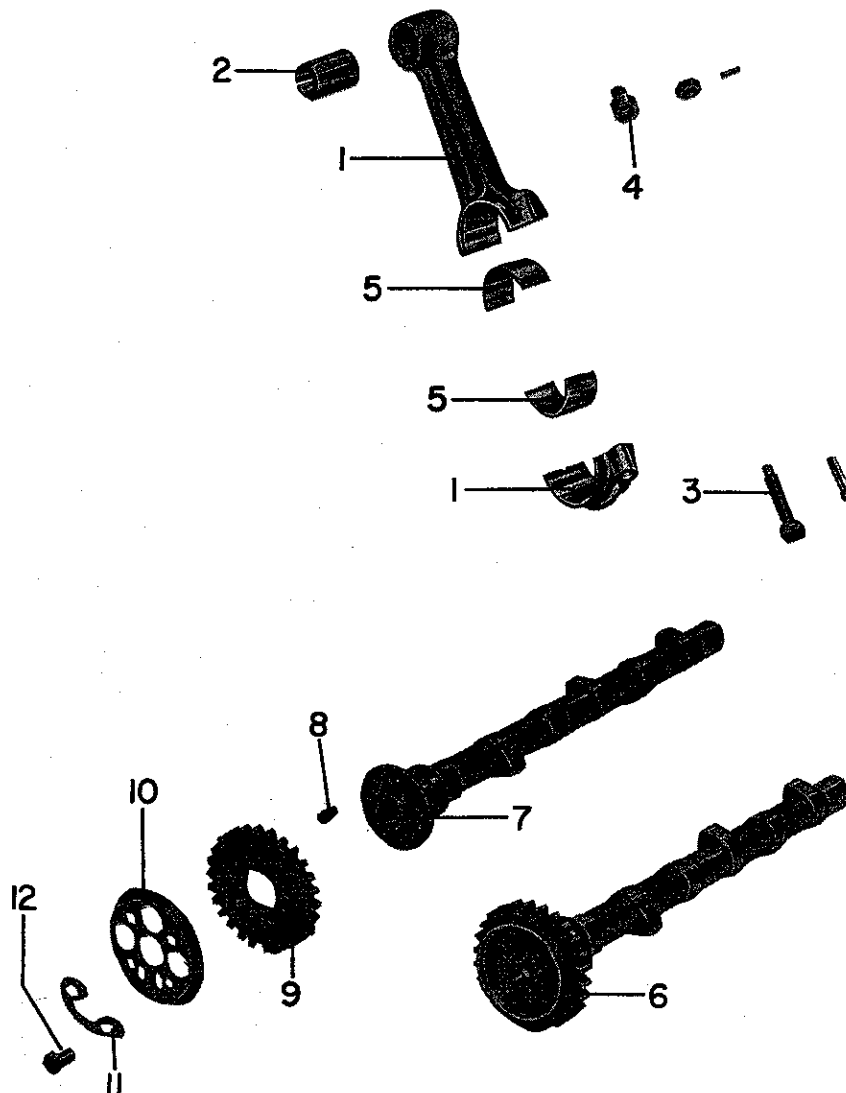


Figure 1-4. Connecting Rod and Camshaft

CRANKCASE ATTACHING PARTS

QUANTITY PER ASSEMBLY

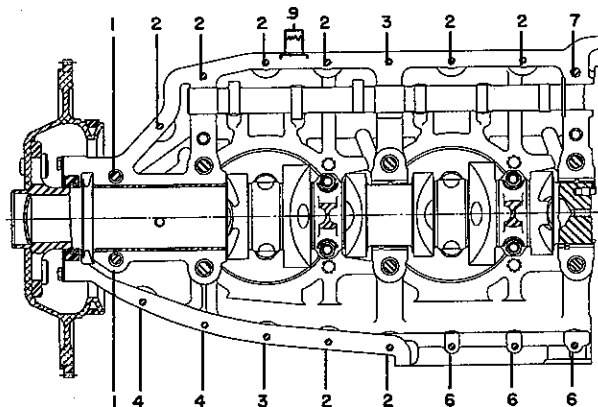
SECTION

1

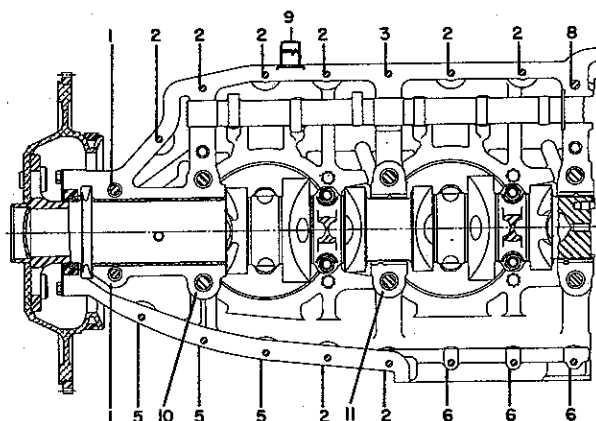
PAGE

1-5

REF.	PART NUMBER	DESCRIPTION	O-320 SERIES																								10-320				L10-320			
			10-320												L10-320												10-320				L10-320			
			A2A	A3A	A4A	A5A	A6A	A7A	A8A	A9A	A10A	A11A	A12A	A13A	A14A	A15A	A16A	A17A	A18A	A19A	A20A	A21A	A22A	A23A	A24A	B1A	B2A	B3A	B4A	B5A	B6A	B7A	B8A	
1	STD-1197	BOLT, 3/8-24 x 3-1/2 in. long	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	STD-33	WASHER, 3/8 plain - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
1	STD-33	WASHER, 3/8 plain - WCF	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	STD-678	WASHER, 3/8 lock	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	STD-598	NUT, 3/8-24 plain	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
2	STD-1414	BOLT, 1/4-20 x 1-1/2 in. long	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
2	STD-8	WASHER, 1/4 plain	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
2	STD-160	WASHER, 1/4 lock	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
2	STD-1411	NUT, 1/4-20 plain	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
3	STD-2084	BOLT, 1/4-20 x 1-3/4 in. long - STD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
3	STD-2084	BOLT, 1/4-20 x 1-3/4 in. long - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	STD-160	WASHER, 1/4 lock - STD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
3	STD-160	WASHER, 1/4 lock - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3	STD-1411	NUT, 1/4-20 plain - STD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
3	STD-1411	NUT, 1/4-20 plain - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	STD-1215	BOLT, 1/4-20 x 1-1/4 in. long - STD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
5	STD-1419	BOLT, 1/4-20 x 1-1/8 in. long - WCF	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	STD-8	WASHER, 1/4 plain - WCF	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	STD-160	WASHER, 1/4 lock - WCF	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	STD-1416	BOLT, 1/4-20 x 1-1/2 in. long	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	STD-8	WASHER, 1/4 plain (maximum of 9)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
7	STD-1409	NUT, 1/4-20 slotted	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
7	STD-1205	BOLT, 3/8-24 x 2-3/16 in. long - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7	STD-33	WASHER, 3/8 plain - STD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
7	STD-872	NUT, 3/8-24 slotted - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	STD-872	NUT, 3/8-24 slotted - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	STD-33	WASHER, 3/8 plain - WCF	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
9	60803	STRAP, Lifting -	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	STD-2090	NUT, 1/2-20 plain (thru bolt at nose of crankcase) - WCF	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
10	77907	SPACER, 33/64 ID x 7/8 in. OD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
10	76220	BOLT, 1/2-20 x 10.7 in. long - WCF	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
11	76220	BOLT, 1/2-20 x 10.7 in. long	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	



STANDARD CRANKCASE



WIDE CYLINDER FLANGE CRANKCASE

Figure 1-5. Crankcase Attaching Parts

QUANTITY PER ASSEMBLY

1

1-6

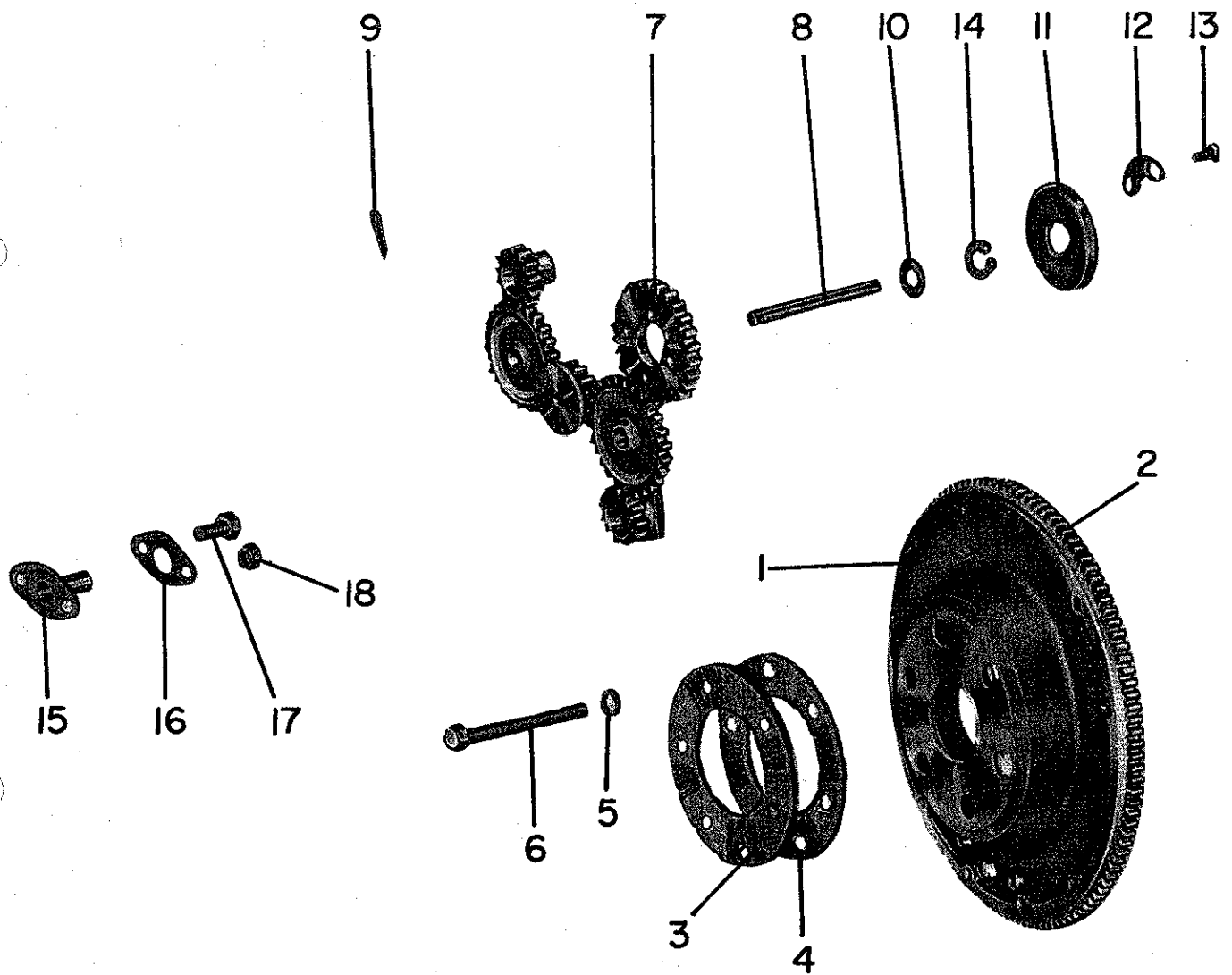


Figure 1-6. Support Assembly and Idler Shafts

FUEL PUMP DRIVES AND IDLER GEARS

QUANTITY PER ASSEMBLY

O-320 SERIES

10-320

L10-320

SECTION
1
PAGE
1-7

			FUEL PUMP DRIVES AND IDLER GEARS																				SECTION 1				
			QUANTITY PER ASSEMBLY																				PAGE 1-7				
			O-320 SERIES										10-320					L10-320									
P.F.	PART NUMBER	DESCRIPTION	A2A	A2B	A2C	A3A	A3B	A3C	B2A	B2B	B3A	B3B	B3C	D2A	D2B	D2C	E2A	E2B	E2C	E2D	B1A	B1C	D1A	E1A	B1A	C1A	
	72230*	SHAFT, Fuel pump idler gear - WCF																						1			1
	72829*	LOCKPLATE, 1/4 in. bolt - WCF																						1			1
	STD-705*	SCREW, 1/4-20 x 11/16 in. long - WCF																						2			2
	72231*	GEAR ASSY., Fuel pump idler - WCF																						1			1
	77309*	BUSHING, Crankshaft idler gear - WCF																									
	74996*	GEAR ASSY., Crankshaft idler - WCF																						1			1
	77309*	BUSHING, Crankshaft idler - WCF																						2			2
	75924*	SHAFTGEAR, Fuel pump drive - WCF																						2			2
	69164*	GASKET, Fuel pump adapter - WCF																						1			1
	69159*	ADAPTER, Fuel pump drive - WCF																						1			1
	STD-1774*	PIN, 1/8 dia. x 1/4 in. long - WCF																						1			1
	STD-213*	SEAL, Oil - WCF																						1			1
	61544**	PLUNGER, Fuel pump	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	74996**	GEAR, Crankshaft idler plain	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	75072**	GEAR, Crankshaft idler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	77309**	BUSHING, Crankshaft idler	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	74996+	GEAR, Crankshaft idler plain - STD	2	2	2		2		2	2																	
	74996+	GEAR, Crankshaft idler plain - WCF		2						2									2		2						
	7	BUSHING, Crankshaft idler - STD	2	2	2		2		2	2																	
	7	BUSHING, Crankshaft idler - WCF		2						2										2		2					
		* - Geared fuel pump drive.																									
		** - Plunger fuel pump drive.																									
		+ - No fuel pump drive provided.																									

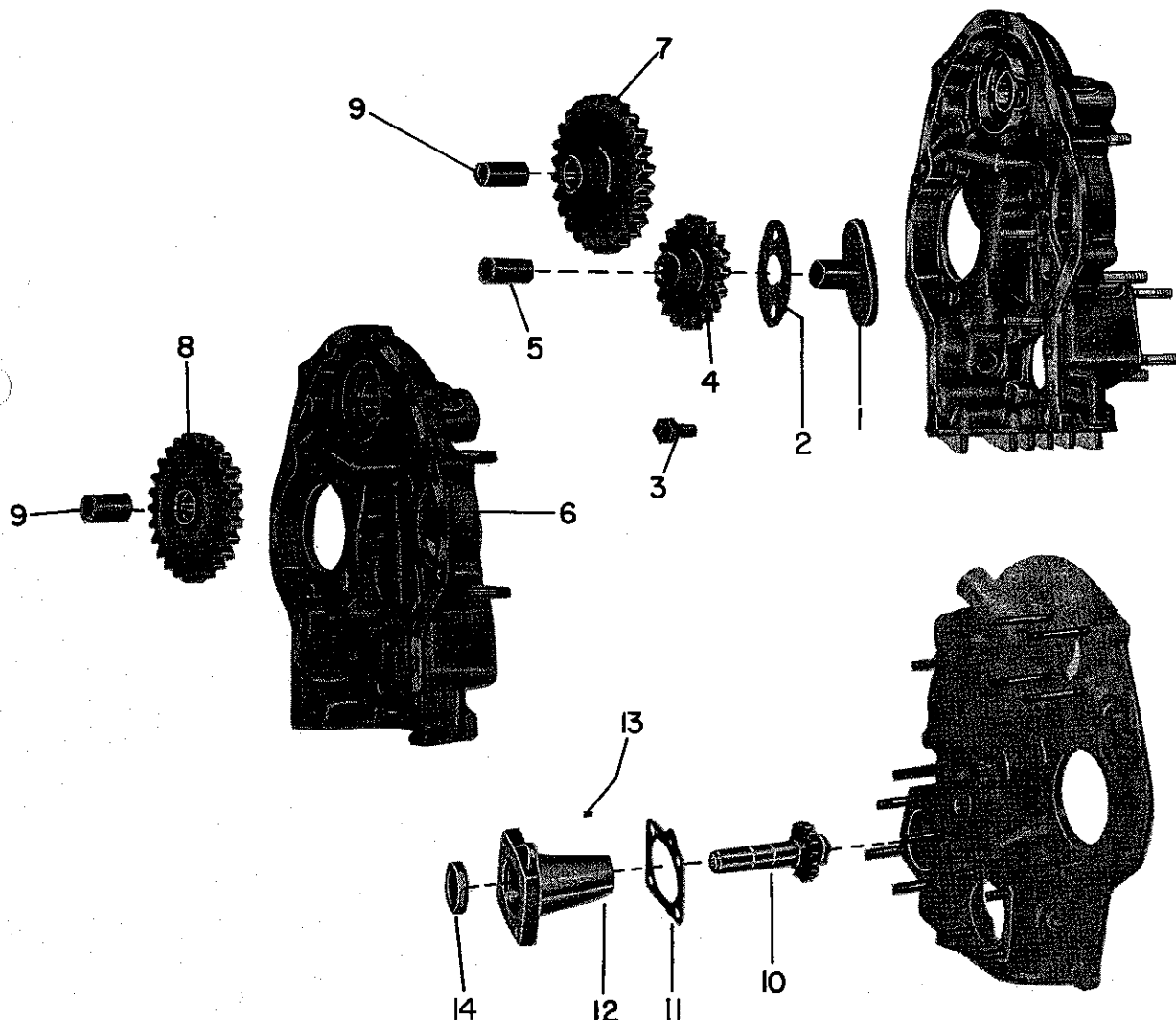


Figure 1-7. Fuel Pump Drives and Idler Gears

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-320, IO-320 AND LIO-320 SERIES

SECTION 2

ACCESSORY HOUSING AND DRIVES

SECTION
2
PAGE
2-1

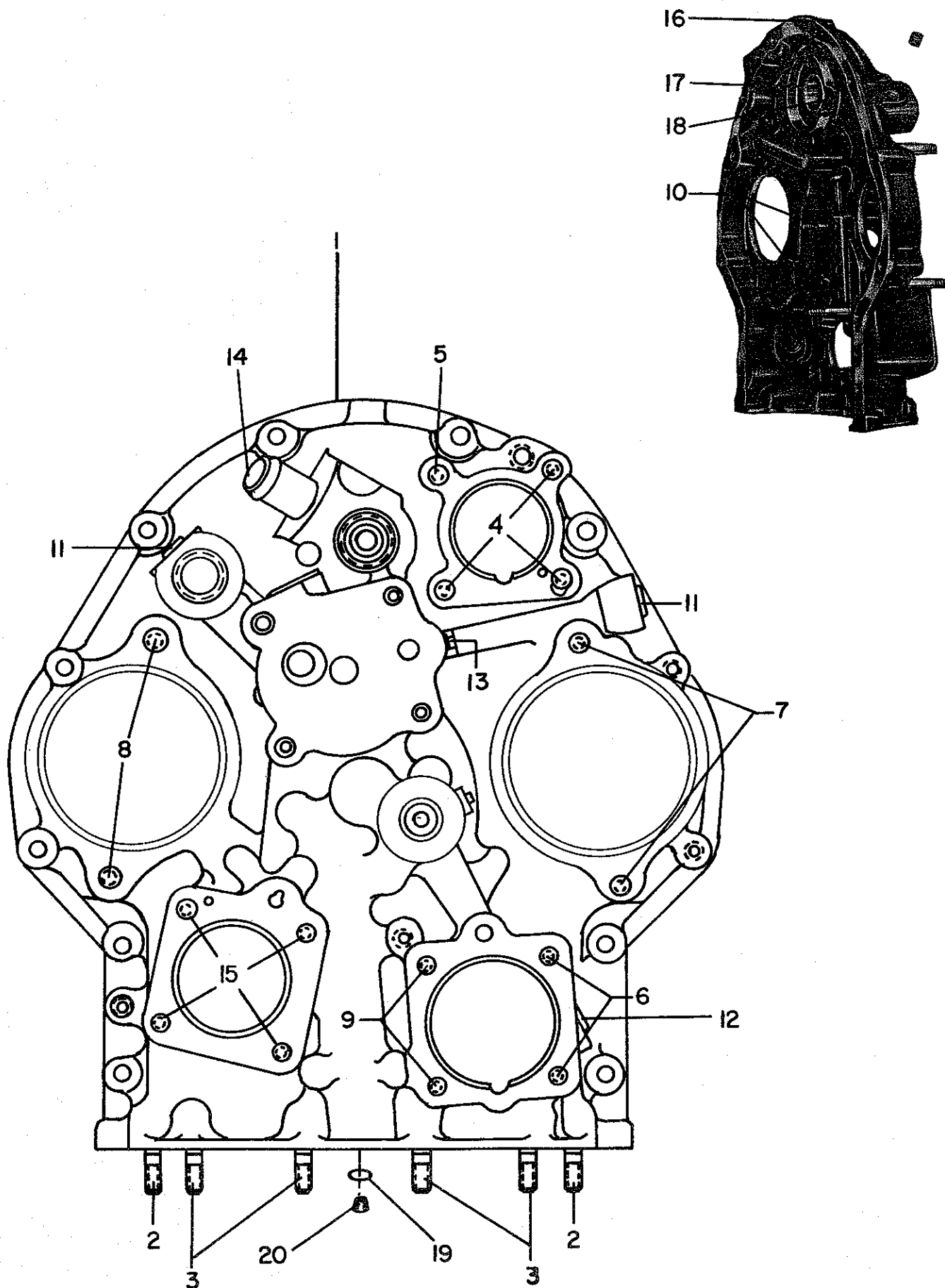


Figure 2-1. Accessory Housing - Separate Cam Gear

SECTION
2
PAGE
2-2

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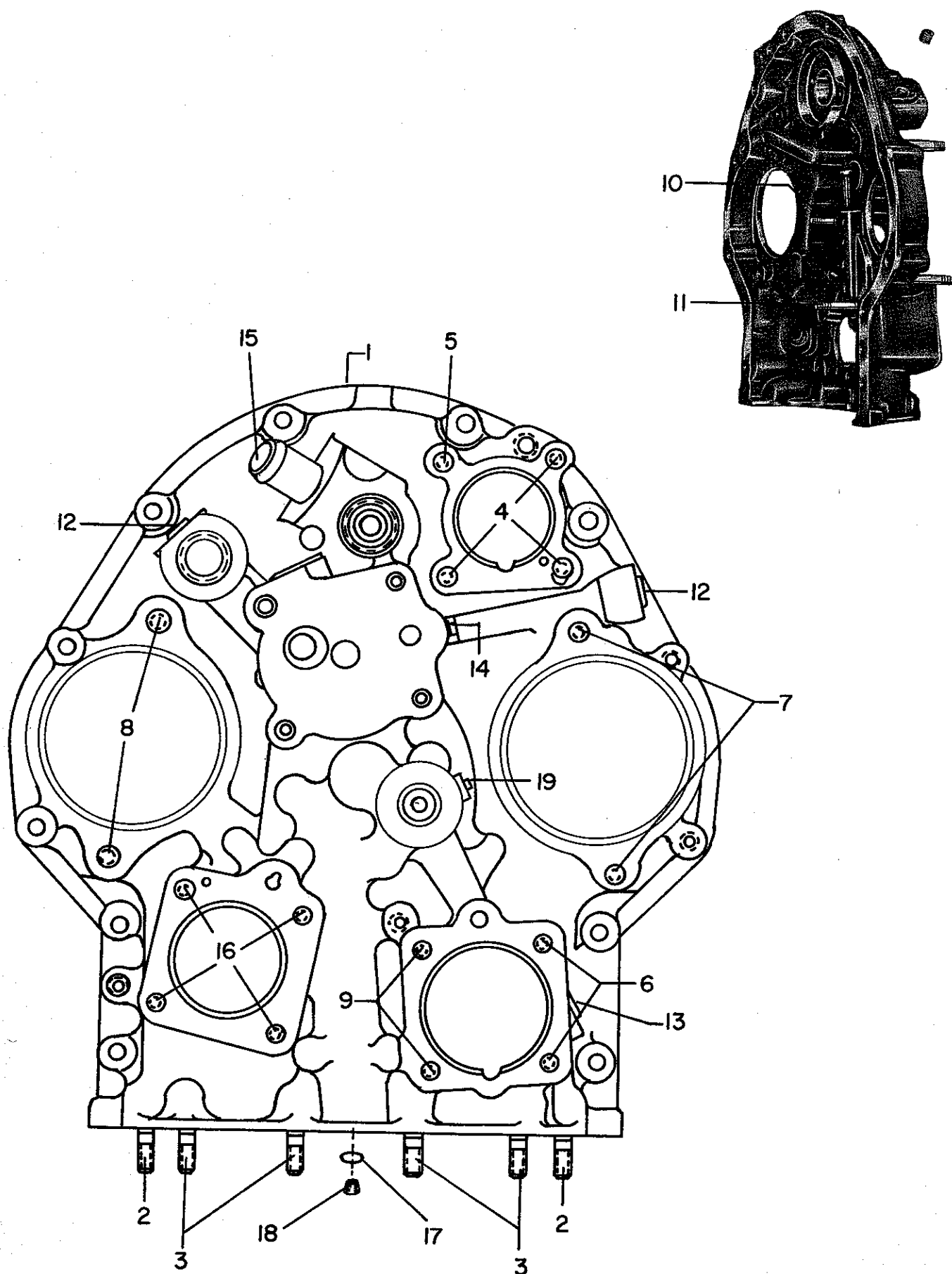


Figure 2-2. Accessory Housing - Integral Cam Gear

SECTION _____

2
PAGE

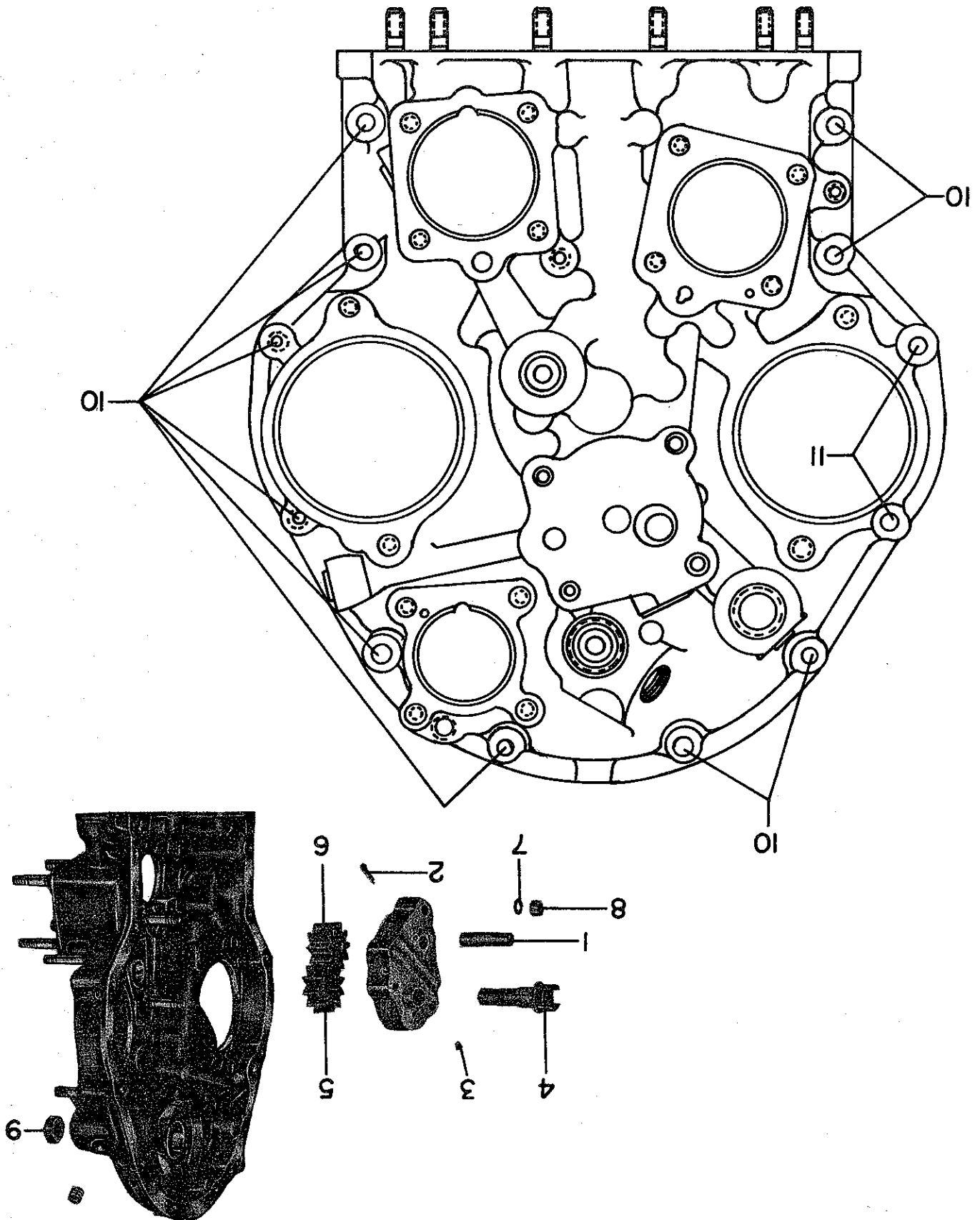
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Figure 2-3. Oil Pump and Accessory Housing Attaching Parts



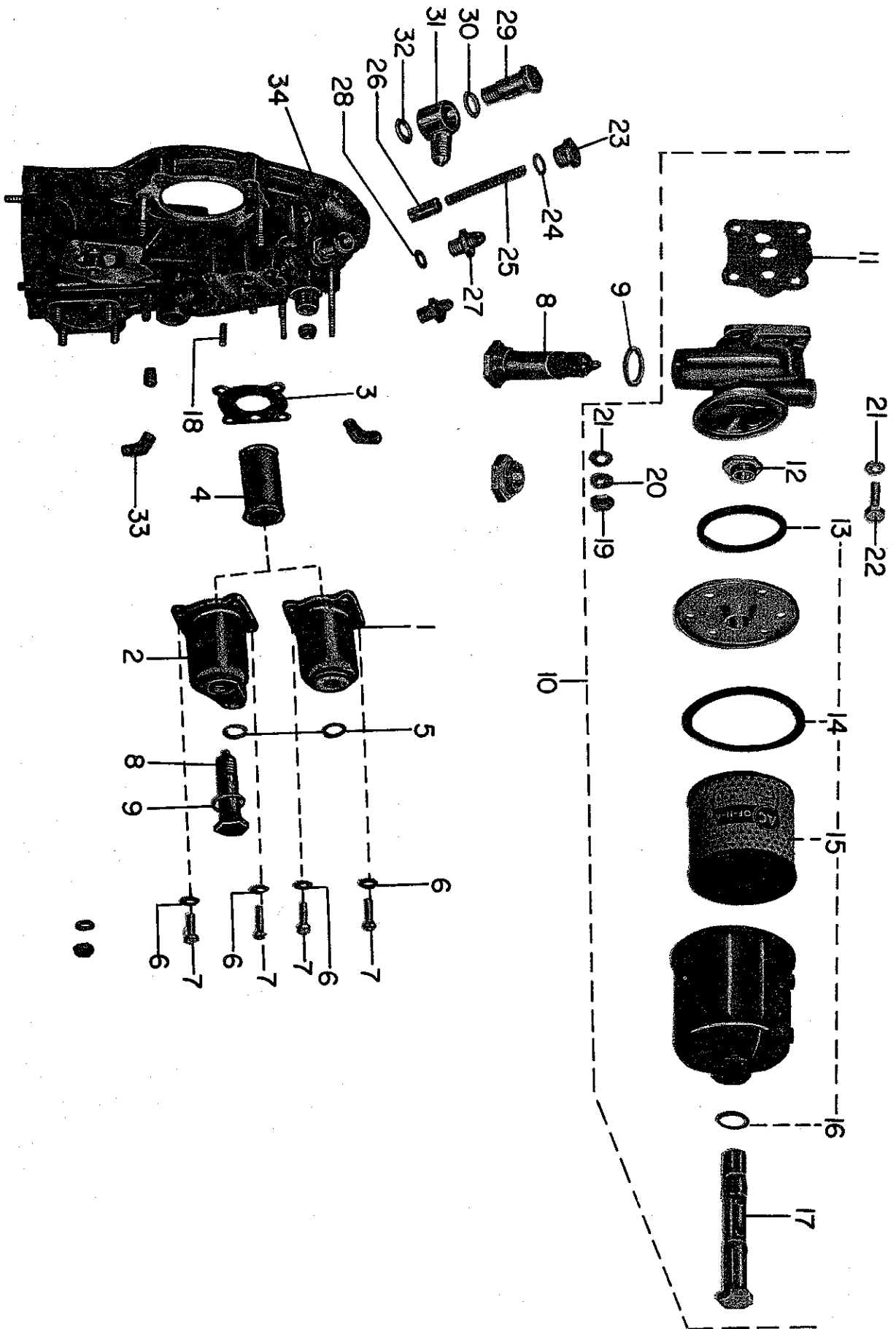
OIL COOLER AND FILTER
QUANTITY PER ASSEMBLY

O-320 SERIES
10-320
B7A
B7C
B7D
B7E
B7F
B7G
B7H
B7I
B7J
B7K
B7L
B7M
B7N
B7O
B7P
B7Q
B7R
B7S
B7T
B7U
B7V
B7W
B7X
B7Y
B7Z

PART NUMBER	DESCRIPTION
68974	HOUSING, Oil pressure screen
68915*	HOUSING, Oil pressure screen
61173	HOUSING, Thermostatic valve and oil pressure screen
62817	GASKET, Oil pressure housing
STD-294	SCREEN ASSY., Oil pressure
STD-294*	GASKET, .88 OD x .63 ID
STD-8	WASHER, 1/4 plain
STD-1884*	GASKET, .88 OD x .63 ID
STD-1884	WASHER, 1/4-20 x 1.00 in. long
STD-1886	SCREW, 1/4-20 x 1.00 in. long
75944	SCREW, 1/4-20 x 1.00 in. (capscrew)
76510	VALVE ASSY., Temperature control, oil cooler bypass
75528+	GASKET, Temp. control valve
76591	KIT, Oil filter and adapter
6436048	GASKET, Filter and adapter
6436636	NUT, Nylon
6436638	GASKET, Rubber
6435883	GASKET, Rubber
5579883	GASKET, Copper
6436624	STUD, Center
26C10-P03	STUD, 1/4-20 x 1-1/4 in. long
STD-1411	NUT, 1/4-20 plain
STD-160	WASHER, 1/4 lock
STD-8	WASHER, 1/4 plain
STD-1856	SCREW, 1/4-20, self-locking
624176	PLUG, Oil cooler bypass
STD-294*	GASKET, Oil cooler bypass plug
624136	PLUNGER, Oil cooler bypass
694366	SPRING, Oil cooler bypass
69675	CONNECTOR, Accessory housing to oil cooler inlet hose
STD-294	GASKET, .88 OD x .63 ID
71620	BOLT, Oil cooler fitting
AN901-8A	GASKET, Metal tube connection seal
AN77-8D	ELBOW, Universal, 75°
71623	WASHER, Oil cooler fitting
AN844-10D	ELBOW, Pipe thread, 5/8 in. ID hose, 45° (Piper)
71140	FITTING, Breather, straight (in access- sory housing)
72413	FITTING, Breather, 120° elbow, (in accessory housing - Beech)

* - Special thermometer connection in
oil pressure screen housing.
** - Screws to attach thermostatic valve
housing for engines equipped with vacu-
um and hydraulic pump or vacuum and
prop. governor dual drive.
† - Not required when thermostatic oil
bypass valve is used.
+ - See latest Service Letter No. 1157.

Figure 2-4. Oil Cooler and Filter



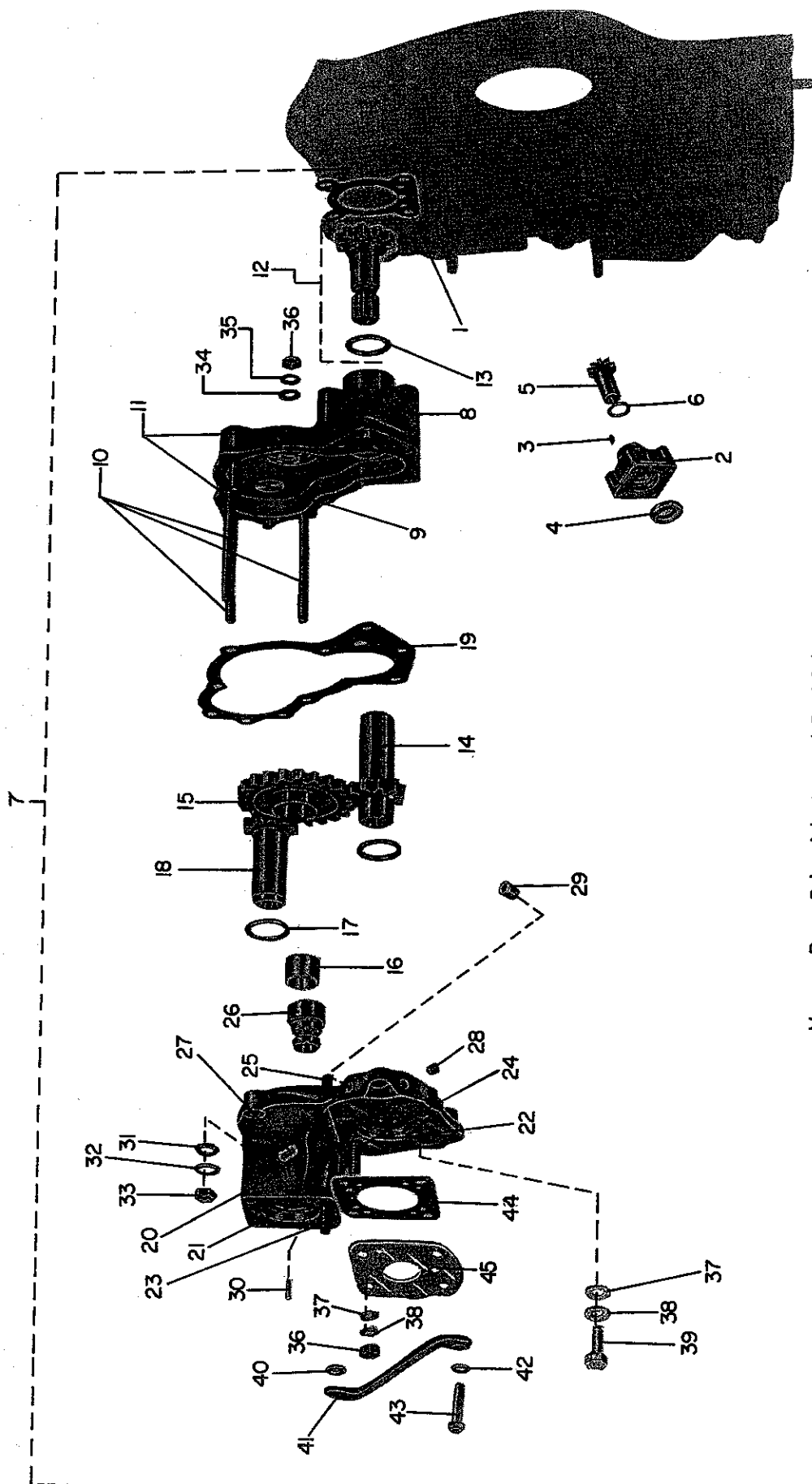
SECTION

2 FACE

L10-320

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2-5



Vacuum Pump Drive Adapter and Dual Drives

Figure 2-5. Vacuum Pump Drive Adapter and Dual Drives

DRIVE AND COVERS

O-320 SERIES

10-320

LIO-320

SECTION

2

PAGE
2-6

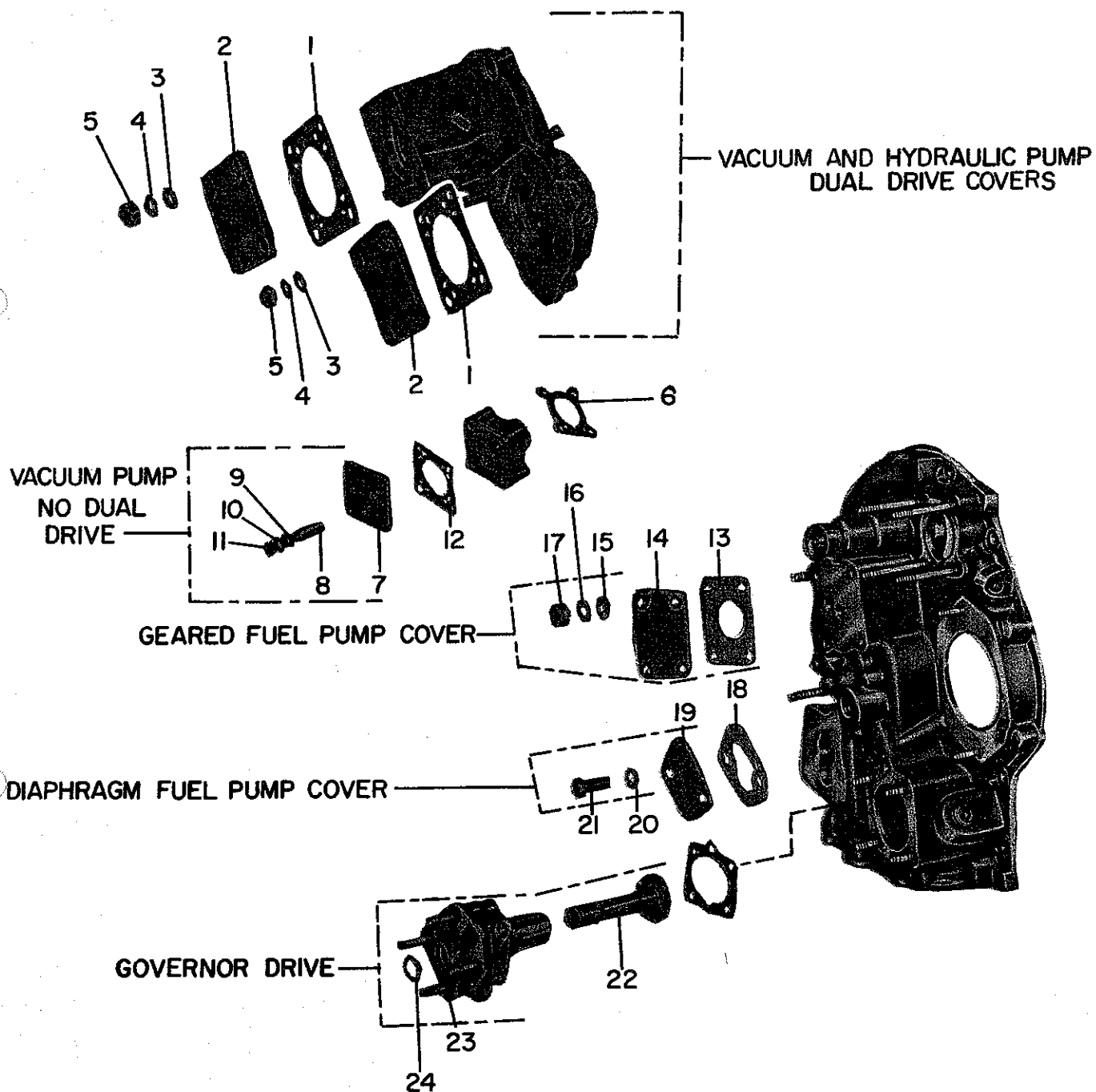


Figure 2-6. Propeller Governor Drive and Covers

QUANTITY PER ASSEMBLY

SECTION
2
PAGE
2-7

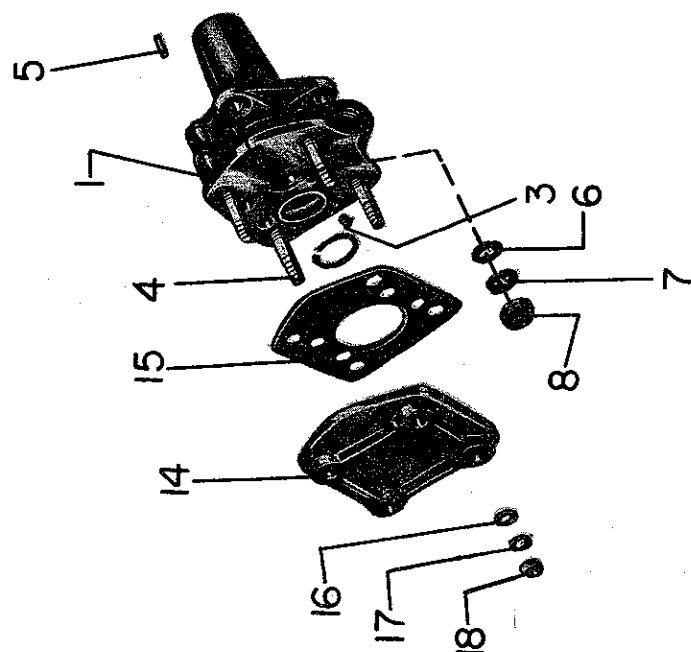
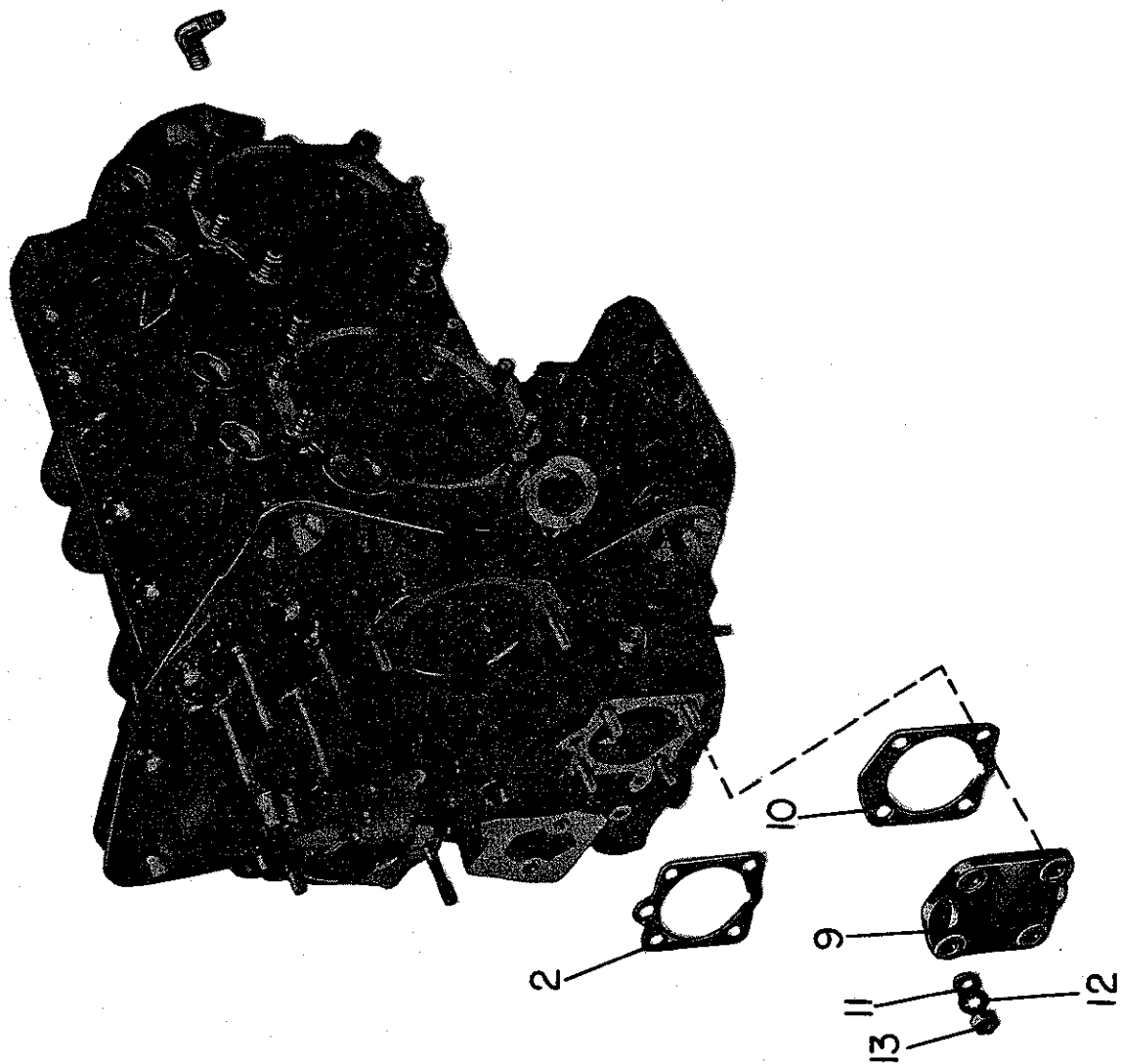


Figure 2-7. Propeller Governor Adapter and Covers