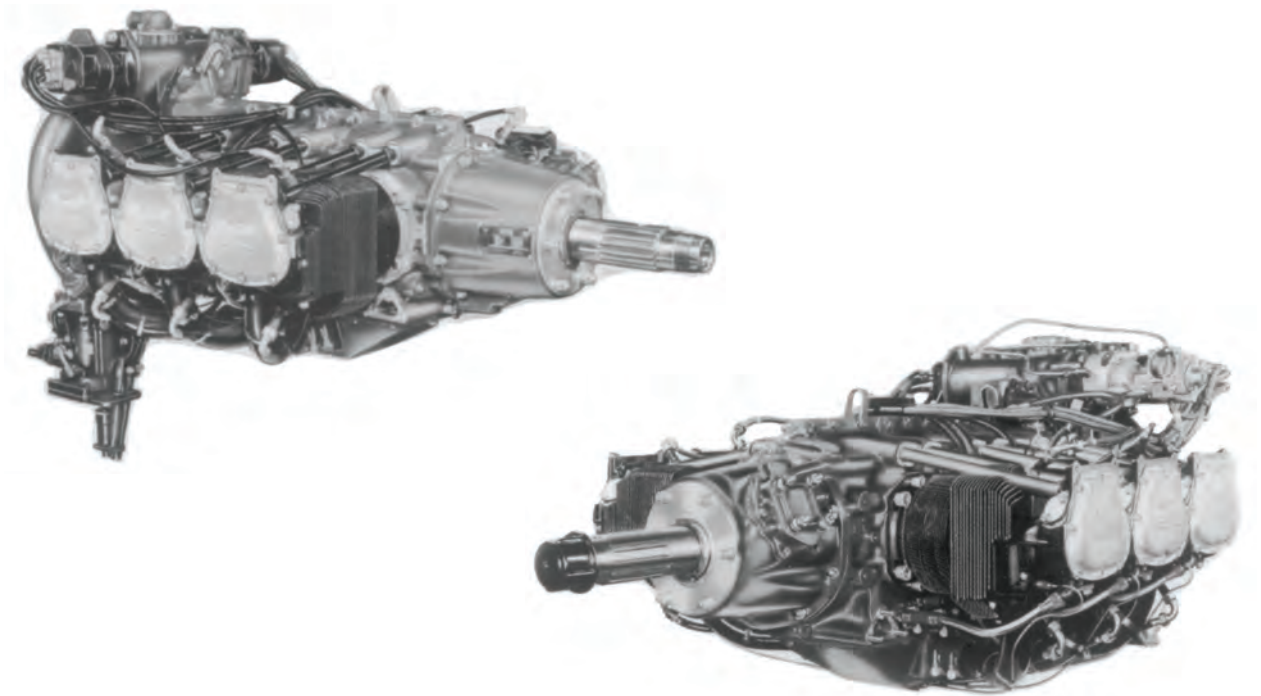


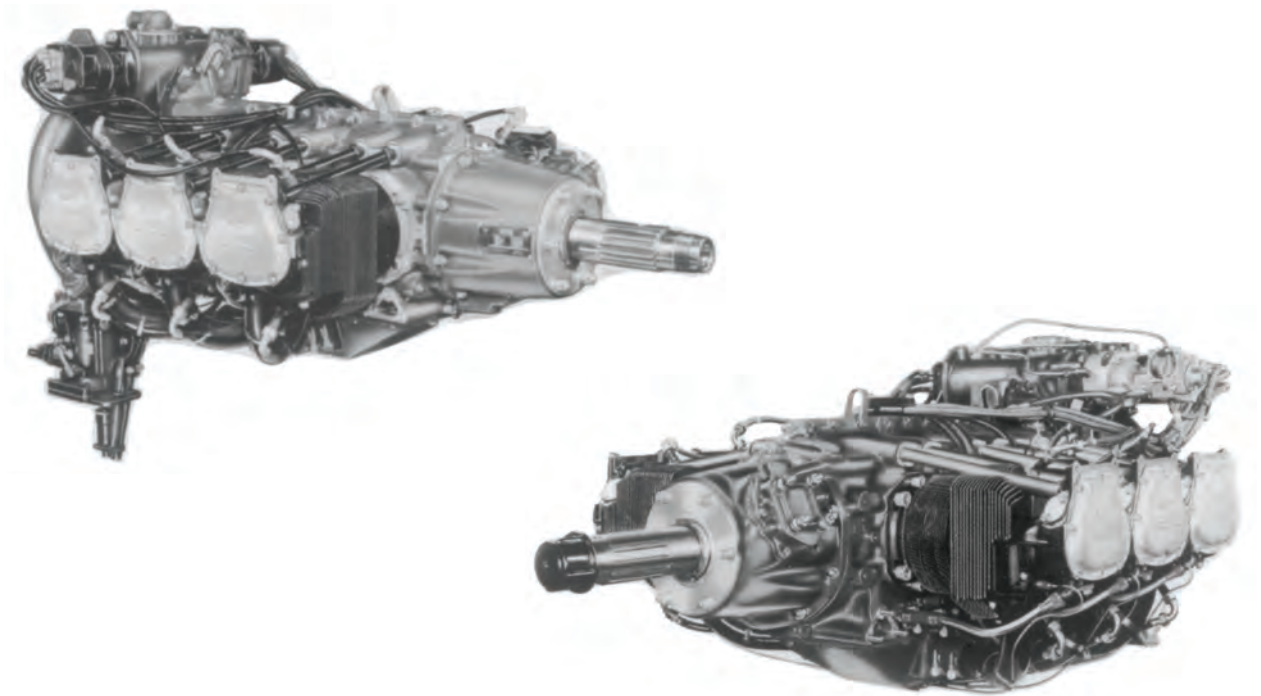
Lycoming Aircraft Engines Parts Catalog



GSO-480 and IGSO-480 Series Aircraft Engines

LYCOMING

Lycoming Aircraft Engines Parts Catalog



GSO-480 and IGSO-480 Series Aircraft Engines

LYCOMING

SUPPLEMENTAL PARTS LIST SSP780

To Provide Parts Coverage for Lycoming
IGSO-480-A1F3 Model Aircraft Engines

NOTE

The IGSO-480-A1F3 model engine is identical to the IGSO-480-A1F6 model which is listed in Lycoming illustrated Parts Catalog, PC-114 except for the torsional damper system which is modified by parts changes as noted in the following list.

IGSO-480-A1F3

SECTION 1

Page 1-5
Crankshaft Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-17473	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
	LW-12200	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
9	73644	COUNTERWEIGHT ASSY.	2
	71903	BUSHING, Dynamic counterweight	8
9	72535	COUNTERWEIGHT ASSY.	4
9	72534	COUNTERWEIGHT ASSY.	4
	71903	BUSHING, Dynamic counterweight	16
10	76788	ROLLER, Dynamic counterweight	4
10	69433	ROLLER, Dynamic counterweight	8

For all other crankshaft parts except those listed, use code letter "A" for IGSO-480-A1F6 model engines.

SUPPLEMENTAL PARTS LIST NO. SSP 2471

To provide parts coverage for Lycoming
GSO-480-B1B3 MODEL AIRCRAFT ENGINES

NOTE

The GSO-480-B1B3 model engine is identical to the GSO-480-B1B6 model which is listed in Lycoming Illustrated Parts Catalog, GSO and IGSO-480 aircraft engines, part number PC-114, except for the torsional damper system which is modified by parts changes as noted in the following list:

SECTION 1 (PC-114)

CRANKSHAFT ASSEMBLY

Page 1-5

Ref. No.	Part Number	Description	Qty.
1	LW-12200	CRANKSHAFT AND COUNTERWEIGHT ASS'Y.	1
9	73644	COUNTERWEIGHT ASSEMBLY	2
	71903	BUSHING, Dynamic counterweight	8
9	72534	COUNTERWEIGHT ASSEMBLY, Light	4
	71903	BUSHING, Dynamic counterweight	16
10	76788	ROLLER, Dynamic counterweight	4
10	69433	ROLLER, Dynamic counterweight	8

For all other crankshaft parts except those listed, use code letter "A" for GSO-480-B1B3 model engines.

Lycoming

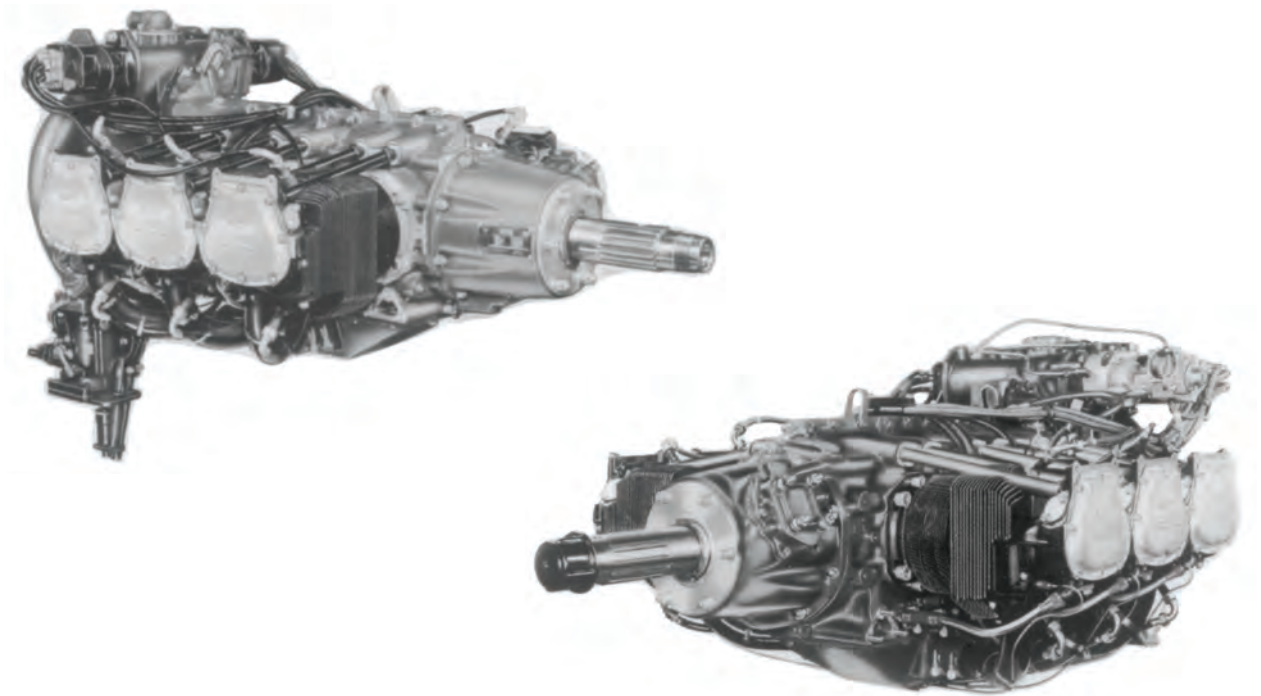
TECHNICAL PUBLICATION REVISION

REVISION No. PC-114-2	PUBLICATION GSO, IGSO-480 Series Parts Catalog	PUBLICATION No. PC-114	PUBLICATION DATE October 1968
------------------------------	--	-------------------------------	--------------------------------------

The page(s) furnished herewith are intended to replace the corresponding page(s) of the publication indicated above. If additional copies of the revision are required they may be obtained from Lycoming Division. See Service Letter No. L114N for further information on Lycoming service publications.

Previous revisions to this publication	This revision consists of:-
PC-114-1 - March 1970 Pages 2-3, 2-4, 4-8A, 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8	March 1974 1-5, 6-6, 6-7 to include engine model GSO-480-B1B3 (Insert revision pages over obsolete pages)
	Revision Pages incorporated in January 1991 REPRINT.

Lycoming Aircraft Engines Parts Catalog



GSO-480 and IGSO-480 Series Aircraft Engines

LYCOMING

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

INTRODUCTION

This catalog contains a complete parts listing for GSO-480 and IGSO-480 Series aircraft engines. The following engines are contained herein: GSO-480-A1A6, -A2A6, -B1A6, -B1B6, -B1C6, -B1E6, -B1J6, -B2D6. IGSO-480-A1A6, -A1B6, -A1C6, -A1E6, -A1F6.

The catalog is laid out to present major sub-assemblies in a chronological order. Sub-assemblies are not necessarily listed in engine build up order, but will follow this order wherever possible.

The illustrations contained herein will endeavor to place a specific part in its exact location in a particular sub-assembly. Where to do so would confuse correct position of the part, dotted lines will be used to assure correct location. No more parts will be shown in any illustration than appear on a single page. Where comparatively few parts are shown, an illustration will depict those parts in the listing directly above the illustration. There may be more than one illustration to a page under these circumstances.

All engine model identifications are listed as the engine left the factory. Individual engine modifiers are responsible for ordering the correct parts for any modification performed after the engine has left the factory. Excepting, of course, those modifications performed to conform with existing Lycoming Service Bulletins and/or Instructions.

The following instructions are issued as a guide to the correct use of this catalog.

1. If you know the name of the part, turn to the Table of Contents. Parts are listed here by major sub-assembly, and component parts.

- a. If you do not know name of the part, check the sub-assembly, in which you think the part may be located.

2. The Table of Contents will point out both a section and a particular page for part in question; i. e. Connecting Rod and Bearing, Section IV, page 4-2.

3. Turn to chart that precedes Section IV. Under the column marked "Engine Model" find model engine you require.

4. Moving to the right you will encounter several individual column headings identified by component parts and page number; ie. Connecting Rod and Bearing, page 4-2.

5. Moving from the top of this column down, select the letter code (A, B, etc.) that is directly opposite the model engine you are interested in.

6. Turn to page 4-2. Under "Description" column, you will find the part in question listed by its proper name. Preceding the description the part is also identified by Part Number and a Reference number. The Reference number refers to location of part in accompanying illustration.

7. In Model usage column you will find a letter code (A, B, etc.).

8. Select the same letter that was indicated in Step 5. Since only the letter "A" is shown, all models in this catalog use the same Connecting Rod.

A typical example: Find the correct exhaust valve for IGSO-480-A1E6 model engine.

- (1) Turn to Table of Contents in front of catalog. Note that valves and springs are in Section IV, page 4-5.

- (2) Turn to Section IV. Using the chart at the beginning of this section, find engine model IGSO-480-A1E6.

- (3) Move to right to individual column heading, Valve and Springs. This is on page 4-5. Note that letter code opposite IGSO-480-A1E6 is "B".

- (4) Turn to page 4-5. The letter "B" is opposite the 74802, 1/2 in. stem diameter inconel exhaust valve and also the 73111 1/2 in. stem diameter standard exhaust valve. This signifies that either valve may be used in IGSO-480-A1E6 model engines.

9. A much faster procedure, if the part number is known, would be to find part number in numerical parts number section. This section lists all parts in numerical order. It also identifies; the Description, Page No. Ref. No. and Quantity used.

10. If neither part name or part number is known, check the illustrations. Since the illustrations now contain fewer parts, it is easier to isolate a part, by sight.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

TABLE OF CONTENTS

SECTION	PAGE
INTRODUCTION	i
TABLE OF CONTENTS.	ii
LIST OF ILLUSTRATIONS.	iv
SUPERSEDURE SECTION	vi
I Crankcase, Crankshaft and Camshaft Group	1-1
Crankcase Assembly.	1-2
Mounting Brackets	1-3
Related Parts	1-4
Crankshaft Assembly	1-5
Camshaft Assembly	1-6
Crankcase Attaching Parts	1-7
II Reduction Gear Assembly	2-1
Reduction Gear Assembly	2-2
Stationary Gear and Pinion Cage Assembly	2-3
Prop. Shaft, Thrust Bearing and Cap Assembly	2-4
Governor Drives and Governor Drive Adapter	2-5
Reduction Gear Attaching Parts	2-6
III Accessory Housing and Attaching Parts	3-1
Accessory Housing Assembly	3-2
Shaftgear Assemblies	3-3
Magneto, Tachometer and Starter Drives	3-4
Magneto Drive, Starter Drive Adapter, and Fuel Injector Drive.	3-5
Accessory Housing Breather	3-6
Accessory Housing Cover	3-7
Oil Pump Assembly	3-8
Oil Scavenge Pump Assembly.	3-9
Oil Filter, Oil Pressure Relief Valve	3-10
Accessory Covers, Gaskets and Attaching Parts	3-11
IV Cylinder, Piston and Valve Train	4-1
Connecting Rod Assembly	4-2
Pistons and Piston Ring Assemblies	4-3
Cylinder Assembly	4-4
Valves and Related Parts	4-5
Valve Rocker Assembly.	4-6
Shroud Tubes, Push Rods and Cylinder Head Oil Drain Tubes	4-7
Intake and Exhaust Flanges and Intercylinder Baffle Assemblies	4-8
V Oil Sump Assembly and Oil Scavenge Pump Screens	5-1
Oil Sump Assembly and Oil Scavenge Pump Screens	5-2
Supercharger Outlet Pipe and Intake Pipe Assemblies	5-3
Intake Pipe Assemblies and Attaching Parts	5-4
VI Fuel Induction System	6-1
Main Accessory and Supercharger Drives	6-2
Supercharger Housing	6-3
Impeller and Shaft Assembly	6-4
Supercharger Shaft Bearing and Air Inlet Adapter	6-5
Supercharger Air Inlet Housing Assembly.	6-6
Carburetor and Attaching Parts	6-7
Priming System	6-8
Fuel Injector and Solenoid Assembly	6-9
Bendix Fuel Injector Detail and Attaching Parts	6-10
Fuel Lines and Attaching Parts	6-11
Fuel Injector and Related Parts	6-12

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

TABLE OF CONTENTS

SECTION		PAGE
VII	Ignition Components	7-1
	Magnetos and Attaching Parts.	7-2
	Magnet Ground Kits.	7-3
	Wiring Harness (73928).	7-4
	Wiring Harness (73926).	7-5
	Wiring Harness (74403).	7-6
	Wiring Harness (77619).	7-7
	Ignition Harness Attaching Parts	7-8
	Spark Plugs.	7-9
VIII	Numerical Parts Listing	8-1
IX	Vendor Accessory Section	9-1
X	Service Replacement Set Section	10-1

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

ILLUSTRATIONS

SECTION		PAGE
I	Crankcase, Crankshaft and Camshaft Group	1-1
	Fig. 1 - Crankcase Assembly	1-2 A
	Fig. 2 - Engine Mounting Brackets	1-3
	Fig. 3 - Crankcase Related Parts	1-4
	Fig. 4 - Crankshaft Assembly	1-5 A
	Fig. 5 - Camshaft Assembly	1-6
	Fig. 6 - Crankcase Attaching Parts	1-7
II	Reduction Gear Assembly	2-1
	Fig. 7 - Reduction Gear and Housing Assembly	2-2
	Fig. 8 - Stationary Gear and Pinion Cage	2-3
	Fig. 9 - Prop. Shaft, Thrust Bearing and Cap Assembly	2-4
	Fig. 10 - Governor Drives and Governor Drive Adapter	2-5
	Fig. 11 - Reduction Gear Attaching Parts	2-6
III	Accessory Housing Assembly	3-1
	Fig. 12 - Accessory Housing and Attaching Parts	3-2 A
	Fig. 13 - Shaftgear Assemblies	3-3
	Fig. 14 - Magneto, Tachometer and Starter Drives	3-4
	Fig. 15 - Magneto Drive, Starter Drive Adapter, and Fuel Injector Drive	3-5
	Fig. 16 - Accessory Housing Breather	3-6
	Fig. 17 - Accessory Housing Cover	3-7
	Fig. 18 - Oil Pump Assembly	3-8
	Fig. 19 - Oil Scavenge Pump	3-9
	Fig. 20 - Oil Filter and Oil Pressure Relief Valve	3-10
	Fig. 21 - Accessory Covers, Gaskets and Attaching Parts	3-11
IV	Cylinder, Piston and Valve Train	4-1
	Fig. 22 - Connecting Rod Assembly	4-2
	Fig. 23 - Piston and Ring Assembly	4-3
	Fig. 24 - Cylinder Assembly	4-4
	Fig. 25 - Valves and Related Parts	4-5
	Fig. 26 - Valve Rocker Assembly	4-6
	Fig. 27 - Shroud Tubes and Push Rods	4-7 A
	Fig. 28 - Cylinder Head Oil Drain Tubes	4-7
	Fig. 29 - Intake and Exhaust Flanges	4-8
	Fig. 30 - Intercylinder Baffles	4-8 A
V	Oil Sump Assembly	5-1
	Fig. 31 - Oil Sump Assembly	5-2
	Fig. 32 - Oil Scavenge Screen	5-3
	Fig. 33 - Intake Pipe Assemblies and Attaching Parts	5-4
VI	Fuel Induction System	6-1
	Fig. 34 - Main Accessory and Supercharger Drives	6-2 A
	Fig. 35 - Supercharger Housing	6-3
	Fig. 36 - Impeller and Shaft Assembly	6-4
	Fig. 37 - Supercharger Shaft Bearing and Air Inlet Adapter	6-5
	Fig. 38 - Supercharger Air Inlet Housing	6-6 A
	Fig. 39 - Carburetor and Attaching Parts	6-7
	Fig. 40 - Priming System	6-8
	Fig. 41 - Fuel Injector, Solenoid Assembly and Attaching Parts	6-9
	Fig. 42 - Bendix Fuel Injector and Attaching Parts	6-10 A
	Fig. 43 - Fuel Lines and Attaching Parts	6-11
	Fig. 44 - Fuel Injector and Related Parts	6-12

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

ILLUSTRATIONS

SECTION		PAGE
VII	Ignition Components	7-1
	Fig. 45 - Magneto Assembly and Attaching Parts	7-2 A
	Fig. 46 - Magneto Ground Terminal Kits	7-3
	Fig. 47 - Wiring Harness (73928)	7-4 A
	Fig. 48 - Wiring Harness (73926)	7-5 A
	Fig. 49 - Wiring Harness (74403)	7-6 A
	Fig. 50 - Wiring Harness (77619)	7-7 A
	Fig. 51 - Wiring Harness Attaching Parts	7-8
	Fig. 52 - Spark Plug Assembly	7-9
IX	Vendor Accessory Parts	9-1
	Bendix Pressure Carburetor	
	Model PS-7BD	9-2 A
	Model PSH-7BD	9-2 A
	Bendix Fuel Injector	
	Model RS10FB1	9-3 A, B
	Bendix Scintilla Magnetos	
	Models S6LN-20, S6RN-21.	9-4
	Models S6LN-204, S6RN-200	9-6
	Models S6LN-1209, S6RN-1227	9-8 A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURE SECTION

GSO and IGSO-480 Series Aircraft Engines to include the following models: GSO-480-A1A6, -A2A6, -B1A6, -B1B6, -B1C6, -B1E6, -B1J6, -B2D6. IGSO-480-A1A6, -A1B6, -A1C6, -A1E6, -A1F6.

SECTION I - Crankcase, Crankshaft and Camshaft Group

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
1-2	69284	Crankcase Ass'y.	71624	GSO-480-A and -B
	71624	Crankcase Ass'y.	75355	All
	75355	has piston cooling nozzles and is doweled at thru-stud locations.		
1-4	69961	Bearing, Crankshaft	73048	All
	72415	Bearing, Crankshaft, Alternate	73049	All
1-4	72216	Nozzle Ass'y., Piston Cooling	73772	All
1-4	72876	Plunger Ass'y., Hyd. Tappet	78290	GSO-480-B Series
	72876	Plunger Ass'y., Hyd. Tappet	76289	IGSO-480-A Series
	76289	limited travel plunger assembly was obsoleted.		
	76289	Plunger Ass'y., Hyd. Tappet	78289	IGSO-480-A Series
	78289	Slow Leak-Down Rate		IGSO-480-A Series
1-5	69853	Crankshaft Ass'y.	74995	All
	74995	Crankshaft Ass'y.	75259	All
1-5	70256	Bushing, Crankshaft, Dyn. Ct'wt.	73810	All
1-5	72308	Bushing, Rear Cr'shft. Spline	72536	All

SECTION II - Reduction Gear Assembly

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
2-2	67734	Gasket, Reduction Gear	74822	GSO-480-B2D6
2-2	69728	Reduction Gear Assembly	72879	GSO-480-B and IGSO-480-A Series
2-5	69736	Pinion Cage, Assembly	69876	All
2-5	67395	Pinion Cage	68297	GSO-480-B Series
2-5	65996	Spacer, Pinion Roller	75469	All
2-5	67394	Housing, Oil Retaining	68293	GSO-480-B Series
2-6	68288	Lockplate, Pinion Cage Nut	74203	All
2-6	68290	Nut, Pinion Cage Retaining	74204	All
2-6	72451	Sleeve, Prop. Shaft Seal	74337	GSO-480-B Series
	72835	Sleeve, Prop. Shaft Seal	69267	GSO-480-B2D6
2-6	72284	Ring, Prop. Shaft Seal	67722(8)	GSO-480-B Series
	72284	Ring, Prop. Shaft Seal	67722(8)	GSO-480-B2D6
2-7	68035	Shaft Ass'y., Gov. Drive Idler	72588	All

SECTION III - Accessory Housing Assembly

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
3-2	69999	Housing Assembly, Accessory	74135	GSO-480-B Series
	72010	Housing Assembly, Accessory	74137	IGSO-480-A Series
3-2	71146	Bushing	72599	GSO-480-B Series
3-2	STD-1847	Plug (Allen, 1/4 pipe)	STD-783	GSO-480-B Series
	69691	Shaft, Hydraulic Pump	75516	GSO-480-B Series
3-8	73872	Impeller, Oil Press. Driving	61297	GSO-480-B Series

SECTION IV - Cylinder, Piston and Valve Train

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
4-2	67275	Rod, Connecting	78028	All
4-2	74667	Bolt, Connecting Rod	78027	All
4-3	74242	Piston Assembly	78762	All
4-6	68806	Shaft, Valve Rocker	72626	All

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURE SECTION (CONT.)

SECTION IV - Cylinder, Piston and Valve Train - Cont.

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
4-6	STD-1826	Screw, Pan Hd., Self-Locking 1/4-20 x 5/8	STD-1925	All
4-7	71135	Rod Ass'y., Push	73434	All
4-7	71136	Rod Ass'y., Push	73435	All
4-7	71137	Rod Ass'y., Push	73436	All
4-7	66739	Shroud Tube Ass'y.	72839	All

SECTION V - Oil Sump Assembly

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
5-2	73056	Sump Assembly, Oil	72002	All

SECTION VI - Supercharger and Induction System

Page No.	P/N	Nomenclature	Superseded By P/N	Models Affected
6-2	69074	Shaftgear, Inter. Super. Drive	74126	GSO-480- B Series
6-2	69137	Gear, Inter. Super. Drive	72548	GSO-480- B Series
6-2	68426	Washer, Inter. Super. Drive, Lock	72549	GSO-480- B Series
6-2	68859	Shaft, Ass'y., Acc'y. Drive	75261	All
6-4	71749	Impeller and Shaft Ass'y.	74535	All
6-4	68112	Spacer, Super. Impeller Nut	74536	All
6-4	68118	Lockwasher, Super. Impeller, Nut	74529	All
6-5	71760	Seal, Super. Drive Shaft	75616	All
6-5	75616	Seal, Super. Drive Shaft	75968	All

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION I

CRANKCASE, CRANKSHAFT AND CAMSHAFT

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION I

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

Page Numbers

Engine Model	Crankcase Assembly 1-2	Engine Mounting Brackets 1-3	Crankcase Related Parts 1-4	Crankshaft Assembly 1-5	Camshaft Assembly 1-6	Crankcase Attaching Parts 1-7
GSO-480-A1A6	A	A, B	A	A	A	A
GSO-480-A2A6	A	A	A	A	A	A
GSO-480-B1A6	A	A, D, F	A, B	A	A	A
GSO-480-B1B6	A	B, C	A, B	A	A	A
GSO-480-B1C6	A	A	A, B	A	A	A
GSO-480-B1E6	A	A	A	A	A	A
GSO-480-B1J6	A	C	A	A	A	A
GSO-480-E2D6	A	A	A	A	A	A
IGSO-480-A1A6	A	A, B, E	A, B	A	A	A
IGSO-480-A1B6	A	B	A, B	A	A	A
IGSO-480-A1C6	A	A, D	B	A	A	A
IGSO-480-A1E6	A	B	A	A	A	A
IGSO-480-A1F6	A	D	B	A	A	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I
1-2 - CRANKCASE ASSEMBLY GROUP

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	75355						CRANKCASE ASSEMBLY, Machining	1	A*
	71624						CRANKCASE ASSEMBLY, Machining	1	A**
2	STD-557						DOWEL, 1/2 dia. x 11/16 in. hollow	3	A
3	75302						DOWEL, Crankcase thru-stud	8	A
4	69679						STUD, 9/16-18 x 10-21/32 in. long	4	A
5	66734						STUD, 1/2-13 x 9-7/8 in. long, necked	4	A
6	31-13						STUD, 5/16-18 x 1-5/8 in. long	6	A
7	50-15						STUD, 1/2-13 x 1-7/8 in. long	12	A
8	38-13						STUD, 3/8-16 x 1-5/8 in. long	24	A
9	STD-1315						INSERT, Heli-coil, 1/4-28 x 1/2 in. long	17	A
10	65007						RETAINER, Shroud tube seal	12	A
11	69580						DOWEL, 5/16 dia. x 5/8 in. long	2	A
12	STD-1623						INSERT, Heli-coil, 1/4-20 x 3/8 in. long	1	A
13	38-16						STUD, 3/8-16 N. F. x 2.00 in. long	8	A
14	38D-22						STUD, 3/8-16 N. F. x 2-3/4 in. long, drilled	1	A
15	25-11						STUD, 1/4-20 x 1-3/8 in. long	4	A
16	25-10						STUD, 1/4-20 x 1-1/4 in. long	1	A
17	1102						PLUG, Allen, 1/8-27 NPT	4	A
18	STD-783						PLUG, Allen, 1/4-18 NPT	1	A
19	69796						DOWEL, Crankshaft bearing	8	A
20	69861						DOWEL, Oil transfer	1	A

* - Crankcase assembly P/N 75355 is doweled at thru-stud locations and can be employed on all models.

** - Crankcase assembly P/N 71624 is not doweled at crankcase thru-stud locations.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

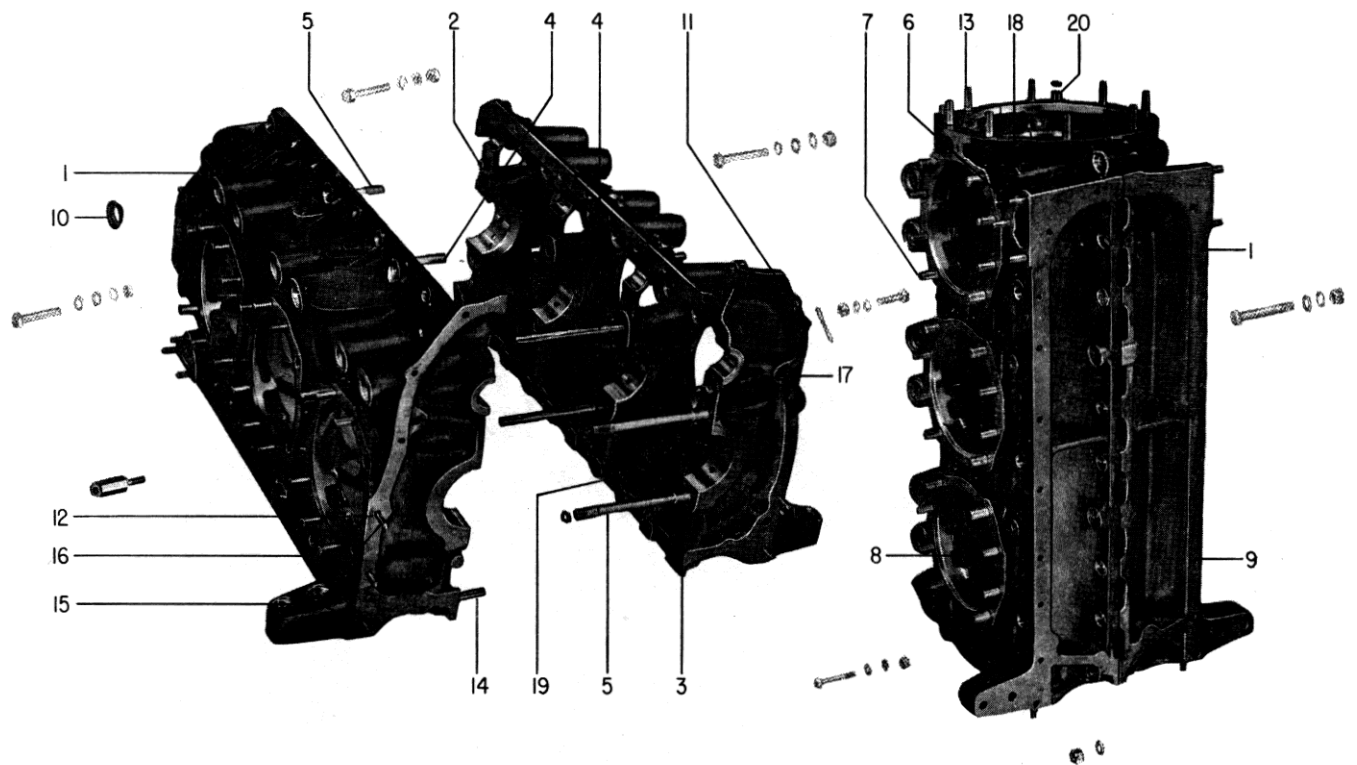


Figure 1. Crankcase Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I (CONT.) 1-3 - ENGINE MOUNTING BRACKETS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	70337						BRACKET ASSEMBLY, Engine mount, rear	2	A, C*
2	38-21						STUD, 3/8-16 x 2-5/8 in. long	2	A, C
3	38-23						STUD, 3/8-16 x 2-7/8 in. long	2	A, C
4	69701						BRACKET, Engine mount, front	2	A, C
5	70446						BRACKET, Engine mount, front	2	B**
6	70452						BRACKET ASSEMBLY, Engine mount, right rear	1	B
7	MS122163						INSERT, Heli-coil, 3/8-16 x 3/4 in. long	1	B
8	38-22						STUD, 3/8-16 x 2-3/4 in. long	1	B
9	70451						BRACKET ASSEMBLY, Engine mount, left rear	1	B
10	MS122163						INSERT, Heli-coil, 3/8-16 x 3/4 in. long	1	B
11	38-22						STUD, 3/8-16 x 2-3/4 in. long	1	B
12	STD-33						WASHER, Plain, 3/8 in.	4	C
13	STD-617						NUT, Self-locking, 3/8-24	4	C
14	STD-35						WASHER, Plain, 5/16 in.	6	C
15	STD-616						NUT, Self-locking, 5/16-24	6	C

* - Aero Design Mounting Bracket

** - Beech Type Mounting Bracket

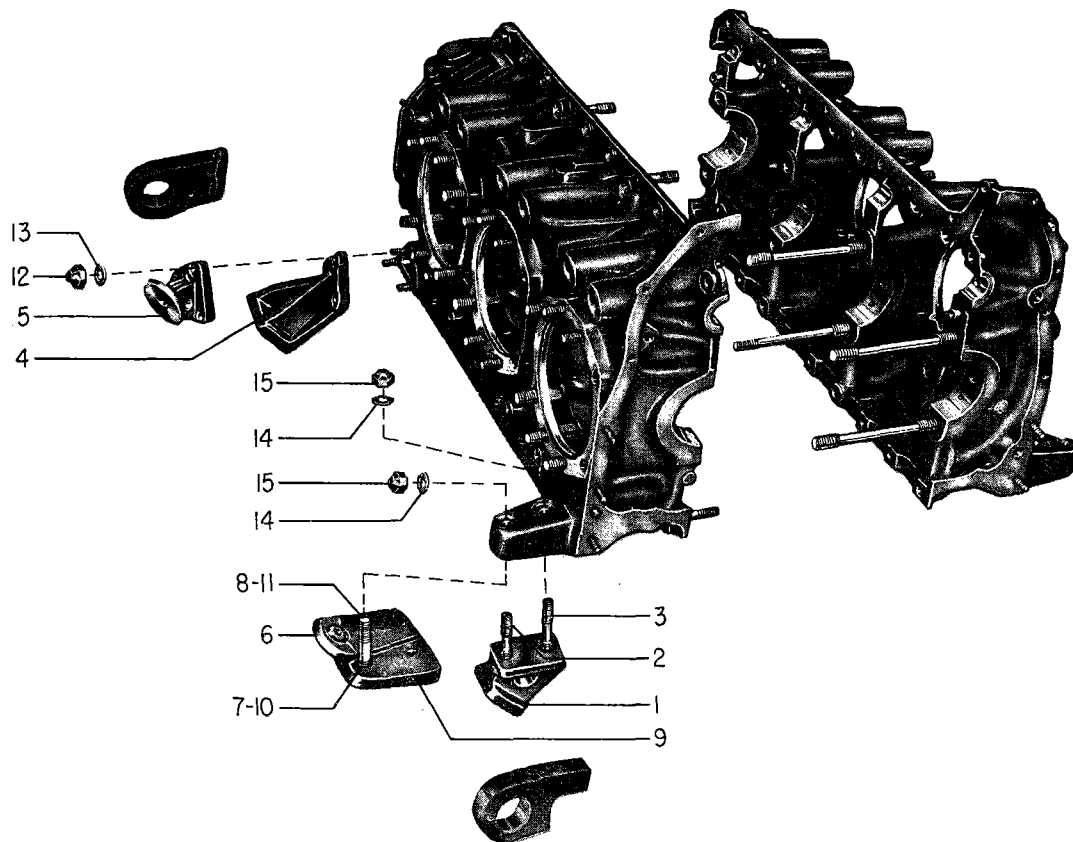


Figure 2. Engine Mounting Brackets

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I (CONT.) 1-4 - CRANKCASE RELATED PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73048						BEARING, Crankshaft	8	A, B
	73049						BEARING, Crankshaft, alternate	8	A, B
2	73061						BODY, Hydraulic tappet	12	A, B
3	78290						PLUNGER ASSEMBLY, Hydraulic tappet	12	A
	78289						PLUNGER ASSEMBLY, Hydraulic tappet	12	B
4	65074						SOCKET, Push rod, hydraulic tappet	12	A, B
5	73772						NOZZLE ASSEMBLY, Piston cooling	6	A, B
6	STD-1339						PLUG, 1/16-27 NPT	6	*

* - STD-1339 plug is used to plug existing piston cooling nozzle holes, if nozzles are not used.

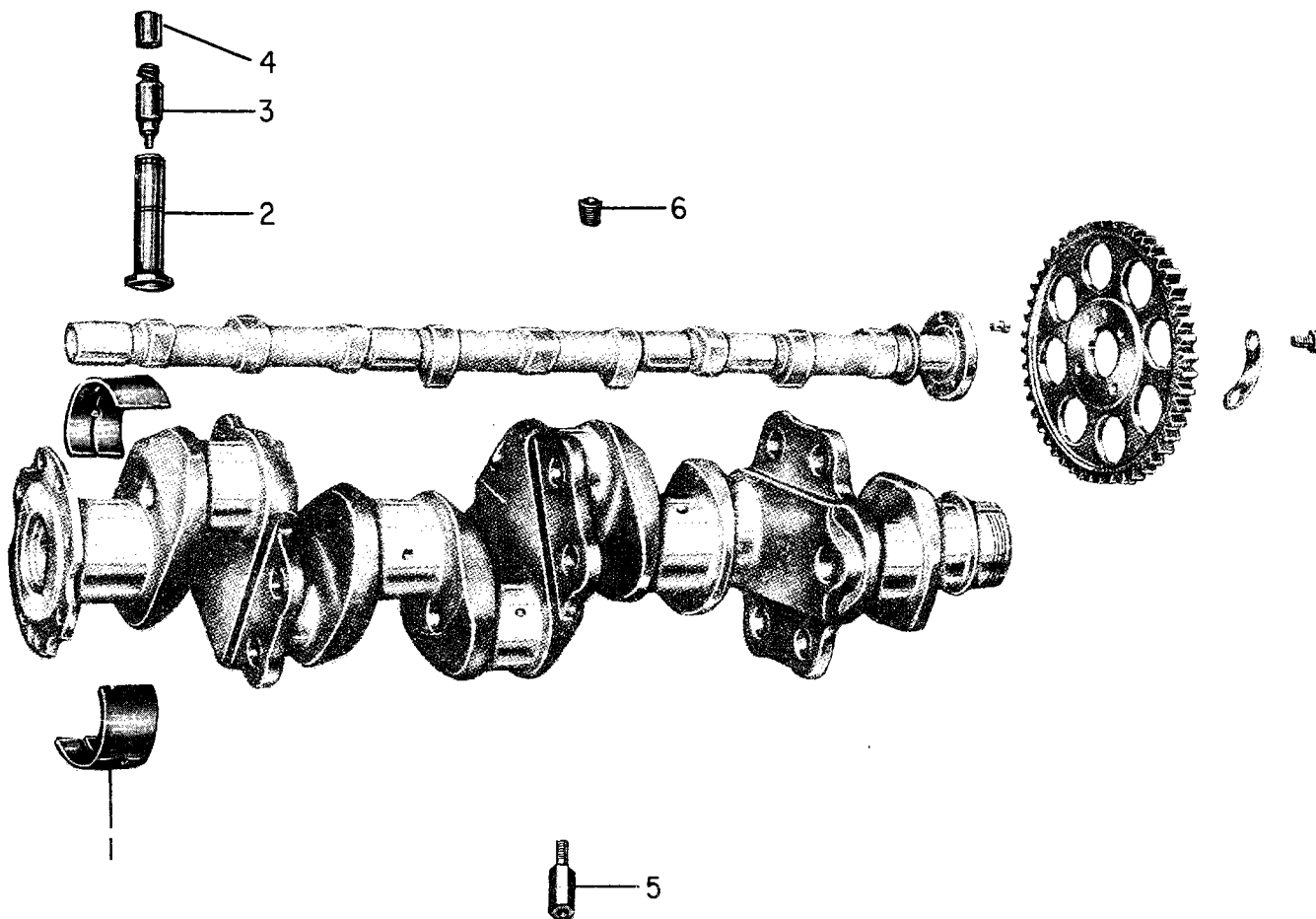


Figure 3. Crankcase, Related Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I (CONT.)
1-5 - CRANKSHAFT ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	75259						CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY	1	A
	70420						CRANKSHAFT AND COUNTERWEIGHT ASSEMBLY	1	A
2	45226						TUBE, Crankshaft oil	6	*
3	65518						PLUG, Crankshaft oil, front	1	*
4	69843						TUBE, Crankshaft oil, transfer rear	1	*
5	73810						BUSHING, Crankshaft, dynamic counterweight	12	**
6	65519						BUSHING, Crankshaft, front	1	A,
7	72536						BUSHING, Rear crankshaft spline	1	***
8	69641						DOWEL, Rear crankshaft spline bushing	3	A
9	71904						COUNTERWEIGHT ASSEMBLY	5	A
	71905						COUNTERWEIGHT ASSEMBLY	1	A
10	69433						ROLLER, Dynamic counterweight	10	A
	70416						ROLLER, Dynamic counterweight	2	A
11	71906						RING, Internal retaining	24	A
12	71907						WASHER, Dynamic counterweight	24	A
13	STD-858						KEY, Woodruff, 5/32 x 5/8 in.	1	A
14	67687						GEAR, Crankshaft timing	1	A
15	67204						PLATE, Crankshaft gear lock	1	A
16	67688						NUT, Crankshaft gear, retaining	1	A

* - These parts are procurable for 70420 crankshaft assemblies requiring sludge tubes. They are not required for crankshaft without sludge tubes.

** - Bushing, crankshaft, dynamic counterweight, P/N 70256 available only until present stock exhausted.

*** - Bushing, rear crankshaft spline, P/N 72308 is still procurable for GSO, IGSO-480 Series engines, that do not employ increased IGSO-540 spline size. See Lycoming Service Instruction #1145.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

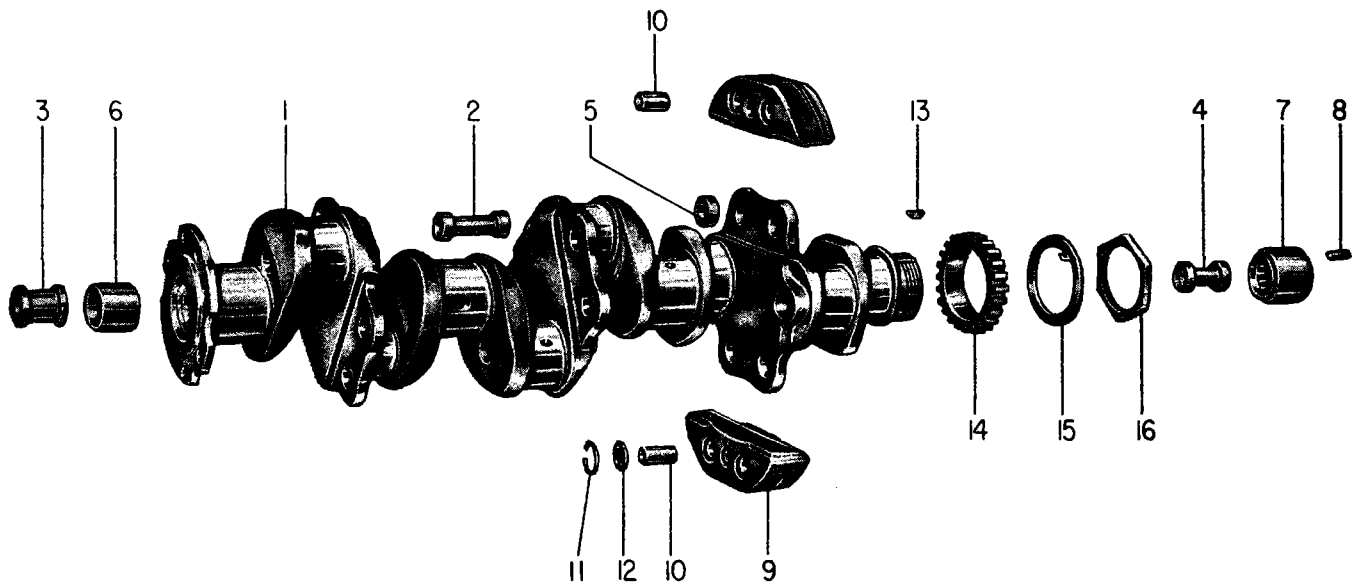


Figure 4. Crankshaft Assembly

1-5A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I (CONT.)
1-6 - CAMSHAFT ASSEMBLY

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	71304	CAMSHAFT ASSEMBLY	1	A
2	STD-1066	DOWEL, Stepped, .310 and .251 dia. x 13/32 in. long	1	A
3	STD-679	SCREW, 5/16-24 x 27/64 in. long	4	A
4	69662	GEAR, Camshaft	1	A
5	72078	LOCKPLATE, 5/16 in. bolt x 1-21/64 in. spacing	2	A

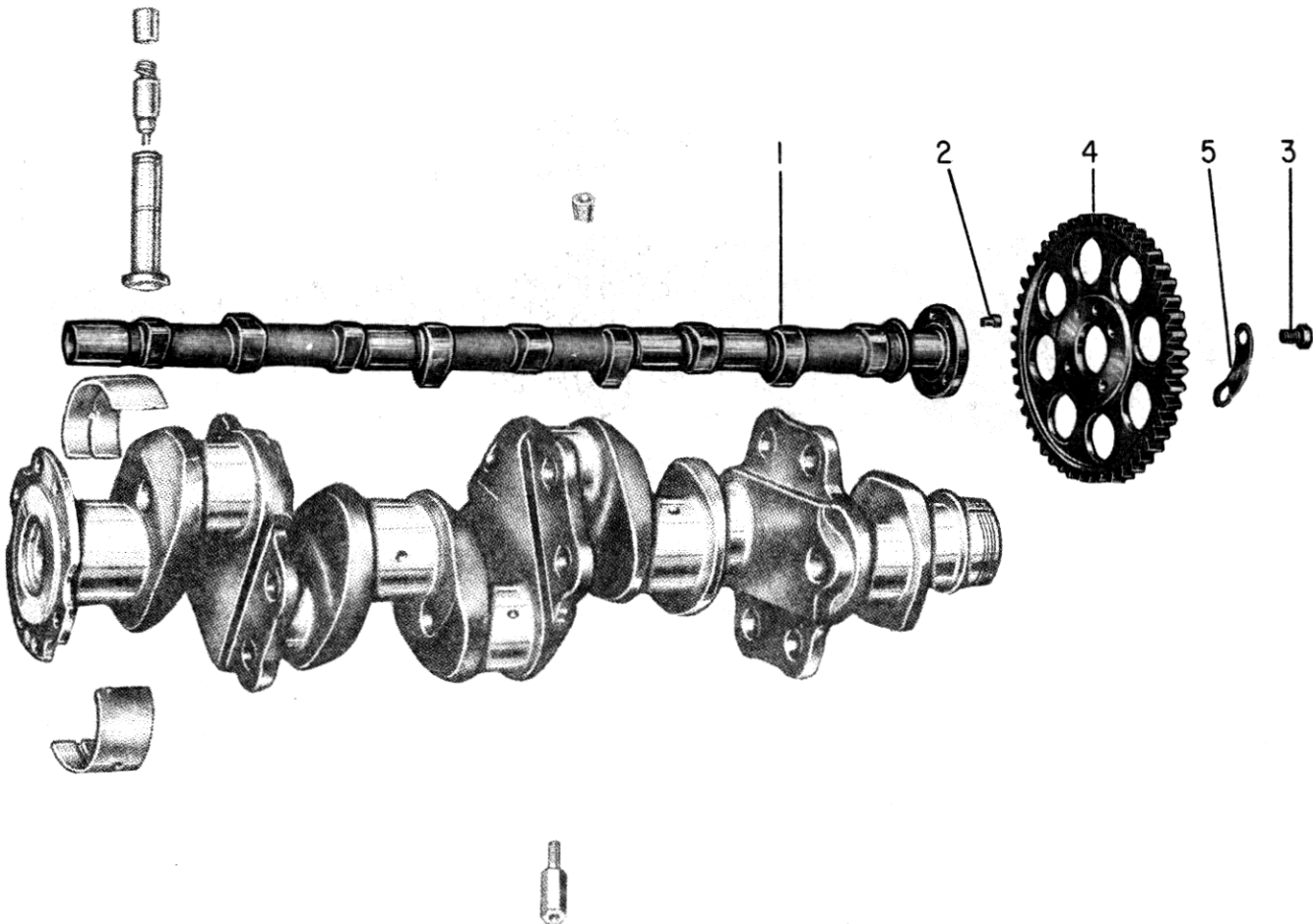


Figure 5. Camshaft Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION I (CONT.)
1-7 - CRANKCASE ATTACHING PARTS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	AN6-16	BOLT, Hex. hd., drilled shank 3/8-24 x 1-53/64 in. long	1	See note A
2	AN6-24	BOLT, Hex. hd., drilled shank 3/8-24 x 2-37/64 in. long	2	A
3	AN6-21A	BOLT, Hex. hd., 3/8-24 x 2-13/64 in. long	4	A
4	STD-33	WASHER, Plain 3/8 in.	15	A
5	STD-872	NUT, Slotted, 3/8-24	4	A
6	STD-713	PIN, 3/32 dia. x 3/4 in. long	1	A
7	STD-678	WASHER, Shakeproof 3/8 in.	4	A
8	STD-596	NUT, Plain, 3/8-24	4	A
9	60803	STRAP, Lifting	2	A
10	AN4-15A	BOLT, Hex. hd., 1/4-28 x 1-21/32 in. long	2	A
11	AN4-12A	BOLT, Hex. hd., 1/4-28 x 1-9/32 in. long	5	A
12	AN4-16	BOLT, Hex. hd., 1/4-28 x 1-25/32 in. long	6	A
13	STD-8	WASHER, Plain, 1/4 in.	26	A
14	STD-160	WASHER, Shakeproof lock, 1/4 in.	7	A
15	STD-9	NUT, Plain, 1/4-28	7	A
16	STD-97	NUT, Slotted, 1/4-28	6	A

NOTE

Lycoming has available, as an option, -600 Series low tension magnetos. These magnetos require special crankcase attaching parts. A listing of these attachments is available from Service Department, Lycoming Division, Williamsport, Pa. 17701.

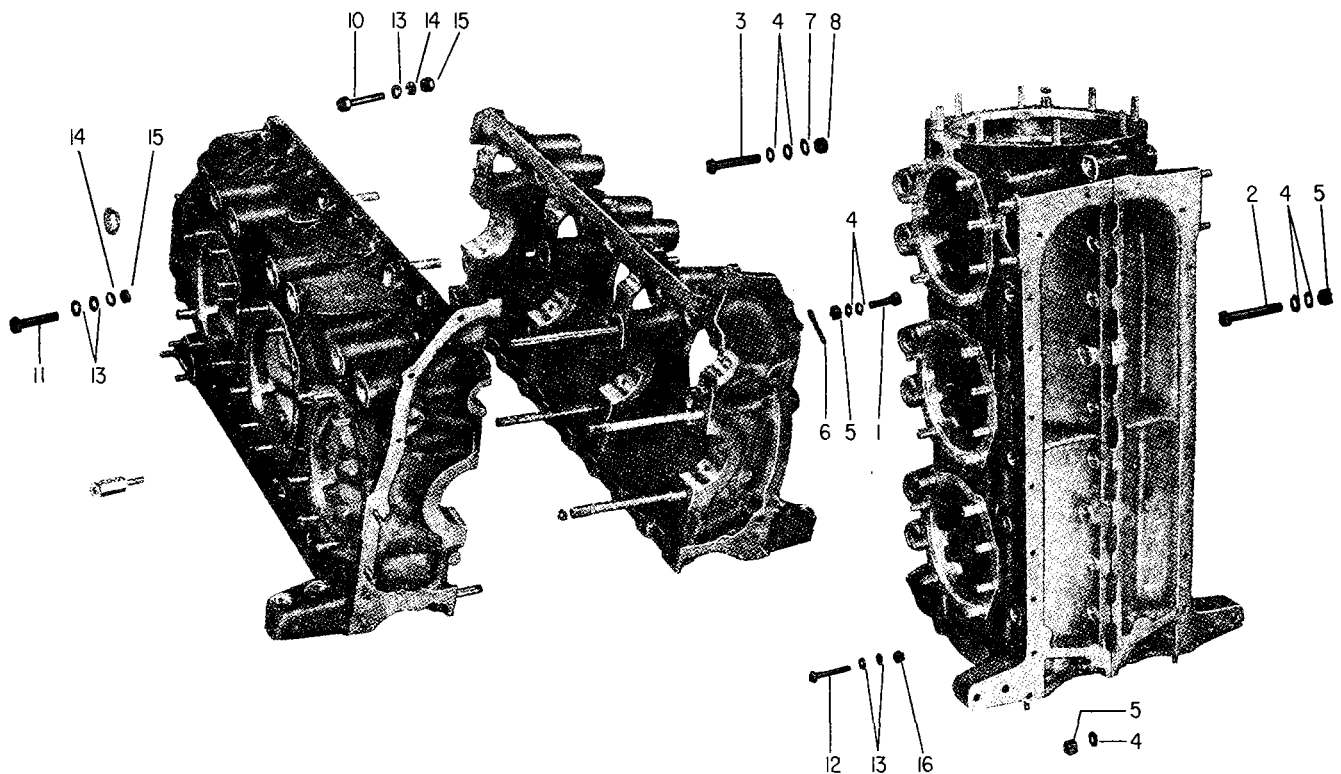


Figure 6. Crankcase Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION II

REDUCTION GEAR ASSEMBLY

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION II

REDUCTION GEAR ASSEMBLY

Page Numbers

Engine Model	Reduction Gear Assembly 2-2	Stationary Gear and Pinion Cage Assembly 2-3	Propeller Shaft, Thrust Bearing and Cap Assembly 2-4	Governor Drives and Governor Drive Adapter 2-5	Reduction Gear Attaching Parts 2-6
GSO-480-A1A6	A	A	A	A	A
GSO-480-A2A6	B	B	B	B	A
GSO-480-B1A6	A	A	A	A	A
GSO-480-B1B6	A	A	A	A	A
GSO-480-B1C6	A	A	A	A	A
GSO-480-B1E6	A	A	A	A	A
GSO-480-B1J6	A	A	A	A	A
GSO-480-B2D6	B	B	B	B	A
IGSO-480-A1A6	A	A	A	A	A
IGSO-480-A1B6	A	A	A	A	A
IGSO-480-A1C6	A	A	A	A	A
IGSO-480-A1E6	A	A	A	A	A
IGSO-480-A1F6	A	A	A	A	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION II
2-2 REDUCTION GEAR ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	74822						GASKET, Reduction gear housing	1	A, B
2	STD-994						RING, Oil seal, 1/2 in. ID x 3/32 dia.	1	A, B
3	72879						GEAR ASSEMBLY, Reduction (splined shaft)	1	A
4	71803						GEAR ASSEMBLY, Reduction (flanged shaft)	1	B
5	69727						GEAR ASSEMBLY, Ring	1	A, B
6	65970						GEAR, Ring	1	A, B
7	67388						PLATE, Ring gear, drive	1	A, B
8	66049						CIRCLIP, Ring gear	AR	A, B
	66050						CIRCLIP, Ring gear	AR	A, B
	66051						CIRCLIP, Ring gear	AR	A, B
	65973						LOCK RING, Gear circlip	1	A, B
10	AN435-3-6						RIVET, .095 in. dia. x 3/8 in. long	1	A, B
11	69733						HOUSING ASSEMBLY, Reduction gear and gov.	1	A
12	69273						HOUSING ASSEMBLY, Reduction gear and gov.	1	B
13	67733						SLEEVE, Reduction gear housing	1	A
14	69265						SLEEVE, Reduction gear housing	1	B
15	STD-798						DOWEL, 3/32 dia. x 9/32 in. long	1	A
16	STD-859						DOWEL, 1/8 dia. x 9/32 in. long	1	B
17	38-17						STUD, 3/8-16 x 2-1/8 in. long	6	A, B
18	68321						STUD, 5/16-18 x 1-29/64 in. long	4	B
19	1102						PLUG, Allen head, 1/8-27 NPT	1	A, B
20	STD-1021						DOWEL, 3/16 in. dia. x 5/8 in. long	1	A, B
21	25-10						STUD, 1/4-20 x 1-1/4 in. long	6	A, B
22	STD-1736						PIN, .158 to .159 dia. x 23/64 in. long	1	A, B
23	72157						BUSHING, Governor drive, rear	1	A, B
24	72158						BUSHING, Governor drive, front	1	A, B
25	71235						DOWEL, Stationary gear drive	2	B

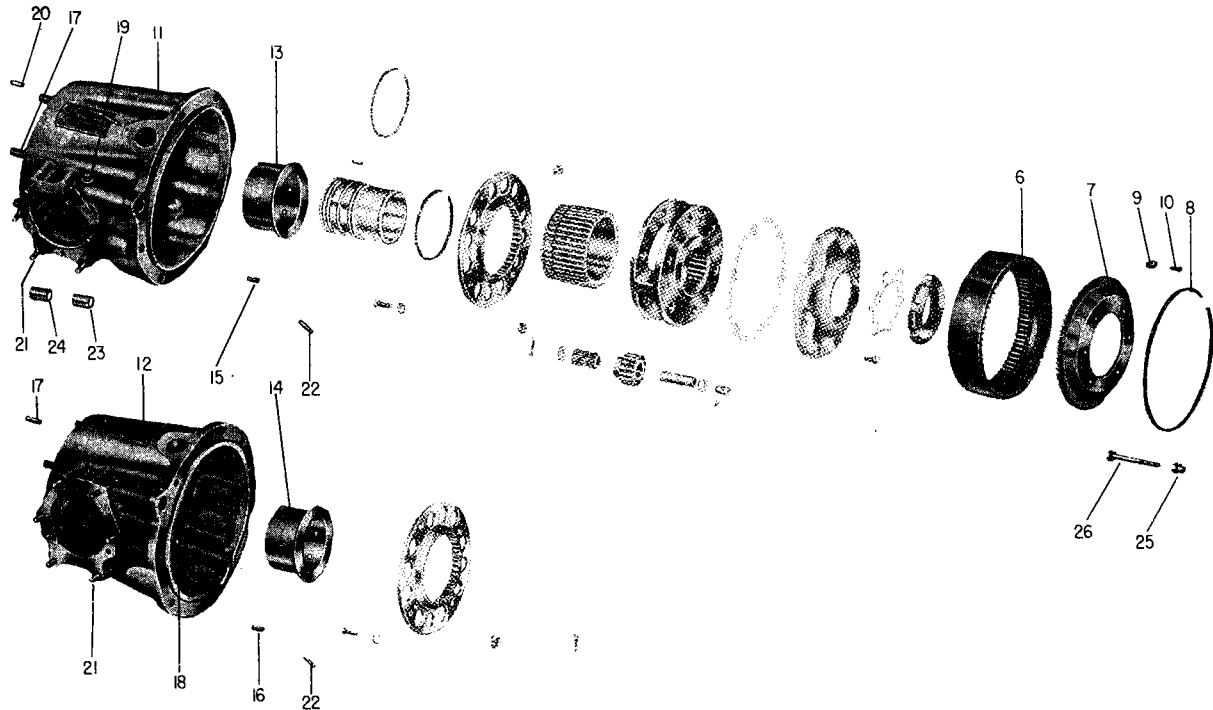


Figure 7. Reduction Gear and Housing Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION II (CONT.) 2-3 - STATIONARY GEAR AND PINION CAGE ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	69735						GEAR ASSEMBLY, Stationary	1	A
2	65978						GEAR ASSEMBLY, Stationary	1	B
3	65979						GEAR, Stationary	1	A, B
4	68087						PLATE, Stationary gear drive	1	A
5	65980						PLATE, Stationary gear drive	1	B
6	65992						CIRCLIP, Stationary gear	AR	A, B
	65993						CIRCLIP, Stationary gear	AR	A, B
	65994						CIRCLIP, Stationary gear	AR	A, B
	65995						CIRCLIP, Stationary gear	AR	A, B
7	STD-35						WASHER, Plain, 5/16 in.	4	A
8	68364						BOLT, Reduction gear drive plate stationary	4	A
9	STD-1013						NUT, Castle, 5/16-24	4	A, B
10	STD-68						PIN, Cotter, 1/16 dia. x 1/2 in. long	4	A
11	69876						CAGE ASSEMBLY, Pinion	1	A, B
12	68297						CAGE, Pinion	1	A, B
13	65986						SHAFT, Pinion	6	A, B
14	65987						CUP, Pinion shaft oil retaining	6	A, B
15	66052						PIN, Pinion shaft	6	A, B
16	65985						ROLLER, Pinion	102	A, B
17	75649						SPACER, Pinion roller (Replaces 65996)	12	A, B
18	67393						GEAR, Pinion	6	A, B
19	67914						GASKET, Housing, oil retaining	1	A, B
20	68293						HOUSING, Oil retaining (Replaces 67394)	1	A, B
21	STD-1016						SCREW, Fill. hd., drilled, 1/4-28 x 3/8 in. long	6	A, B
22	74203						LOCKPLATE, Pinion cage nut (Replaces 68288)	1	A, B
23	74204						NUT, Pinion cage retaining (Replaces 68290)	1	A, B
24	67722						RING, Prop. shaft seal (Replaces 72284)	8	A
	67722						RING, Prop. shaft seal	12	B
25	74337						SLEEVE, Prop. shaft seal (Replaces 72451)	1	A
	69267						SLEEVE, Prop. shaft seal (Replaces 72835)	1	B

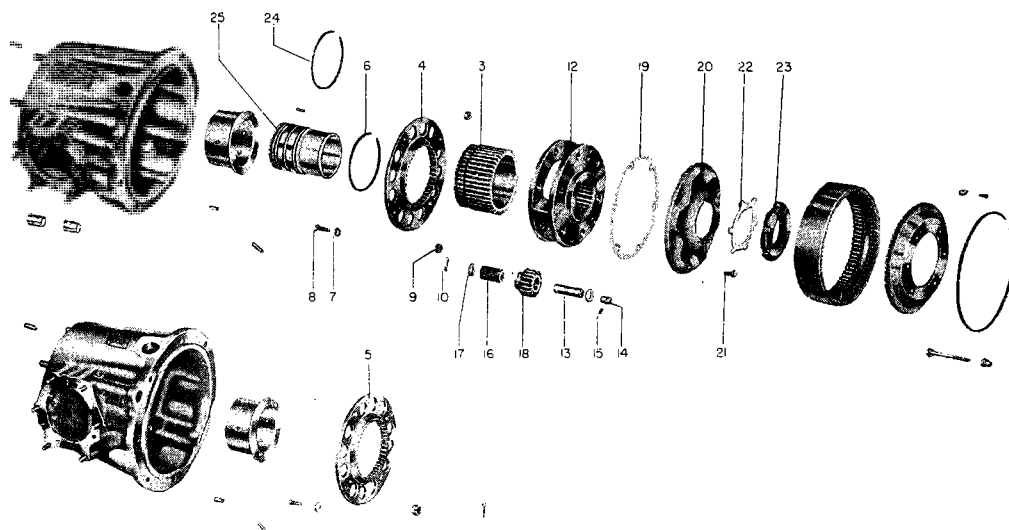


Figure 8. Stationary Gear and Pinion Cage

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION II (CONT.)

2-4 - PROPELLER SHAFT, THRUST BEARING AND CAP ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	72450						SHAFT, Propeller	1	A
2	71802						SHAFT ASSEMBLY, Propeller	1	B
3	STD-1392						PLUG, .268 to .269 dia. x 5/16 in. long	1	B
4	STD-95						KEY, Woodruff, 1/8 in. x 1/2 in.	1	A, B
5	69258						GEAR, Governor drive	1	A, B
6	65366						BEARING, Thrust	1	A, B
7	77454						SLINGER, Thrust bearing oil	1	A, B
8	65030						SHIM, Thrust bearing cap	1	A, B
9	68322						CAP ASSEMBLY, Thrust bearing	1	A, B
10	68291						CAP, Thrust bearing	1	A, B
11	40507						SEAL, Thrust bearing	1	A, B
12	511						SPACER, Thrust bearing cap nut	12	A, B
13	STD-33						WASHER, Plain, 3/8 in.	6	A, B
14	STD-1695						NUT, Thin, self-locking, 3/8-24	6	A, B

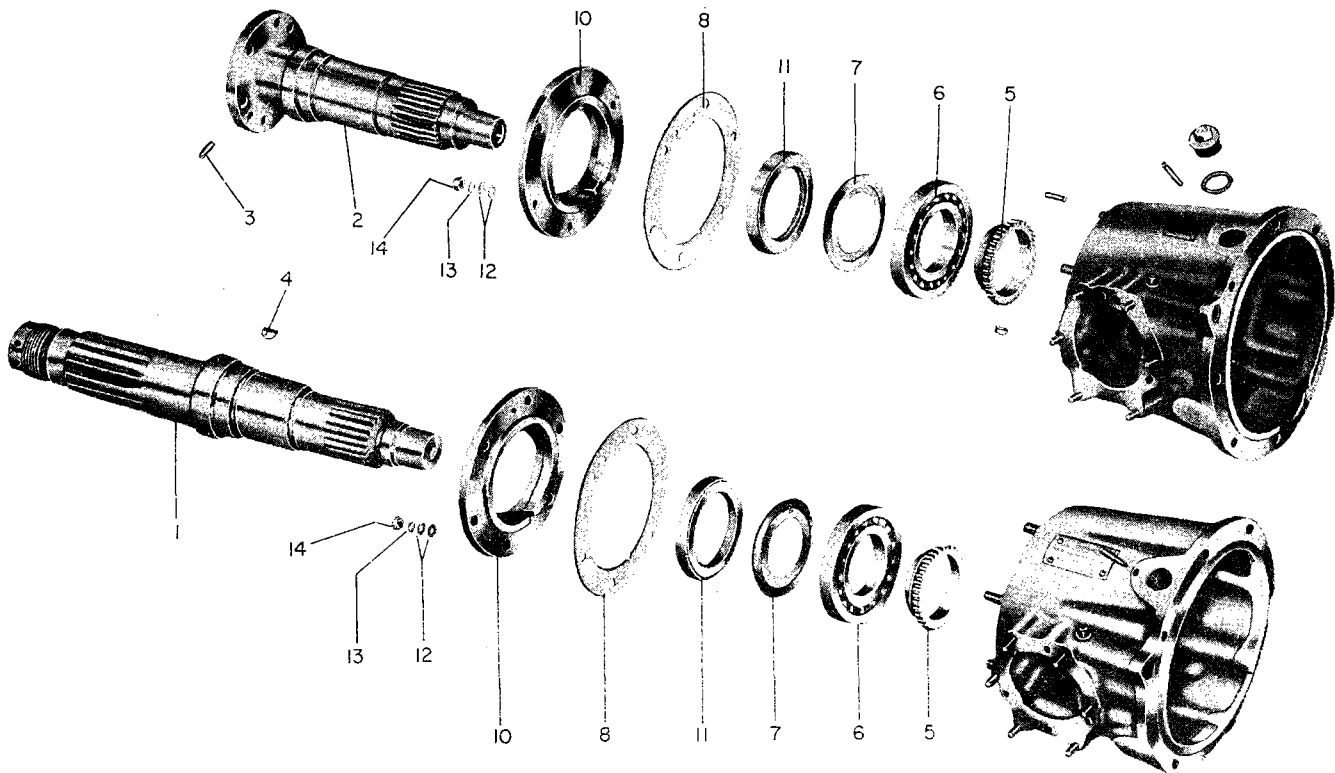


Figure 9. Propeller Shaft, Thrust Bearing and Cap Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION II (CONT.)
2-5 - GOVERNOR DRIVES AND GOVERNOR DRIVE ADAPTER

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68030						GEAR ASSEMBLY, Governor drive idler	1	A, B
2	68032						BUSHING, Governor drive idler	1	A, B
3	68033						BUSHING, Governor drive idler	1	A, B
4	STD-798						DOWEL, .0907 dia. x 9/32 in. long	1	A, B
5	68044						WASHER, Governor drive idler, thrust	AR	A, B
	68045						WASHER, Governor drive idler, thrust	AR	A, B
	68046						WASHER, Governor drive idler, thrust	AR	A, B
6	72588						SHAFT ASSEMBLY, Governor drive idler (Replaces 68035)	1	A, B
7	72589						SHAFT, Governor drive idler (Replaces 68036)	1	A, B
8	STD-120						PLUG, Slotted, 5/16-18 x 5/16 in. long	1	A, B
9	71210						GASKET, Governor drive adapter	2	A, B
10	69278						SHIM, Governor drive adapter	1	A, B
11	69291						ADAPTER ASSEMBLY, Governor drive	1	A
12	69276						ADAPTER ASSEMBLY, Governor drive	1	B
13	1102						PLUG, Allen head, 1/8-27 NPT	3	A, B
14	68041						BUSHING, Governor drive adapter	1	A, B
15	STD-394						DOWEL, 3/32 in. x 11/32 in. long	1	A, B
16	31-18						STUD, 5/16-18 x 2-1/4 in. long	4	A, B
17	68042						GEAR, Governor driven	1	A, B
18	STD-332						CIRCLIP, 13/16 ID x 3/64 dia. wire	1	A, B
19	72053						GASKET, Governor drive	1	A, B
20	72378						COVER, Governor drive	1	A, B

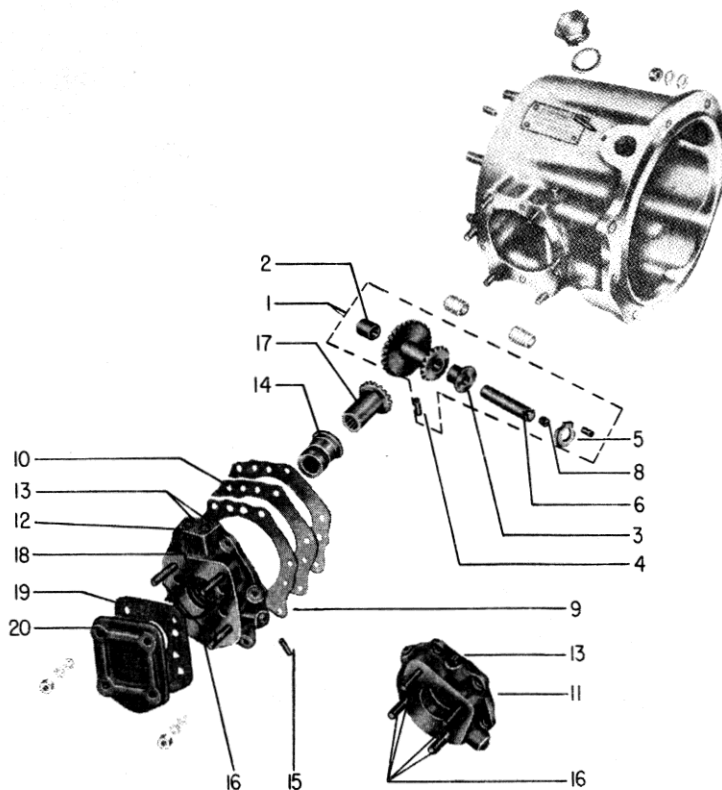


Figure 10. Governor Drives and Governor Drive Adapter

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION II (CONT.)
2-6 - REDUCTION GEAR ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	STD-35						WASHER, Plain, 5/16 in.	16	
2	STD-475						WASHER, Internal lock, 5/16 in.	4	
3	STD-37						NUT, Plain, 5/16-24 NF-3	4	
4	STD-8						WASHER, Plain, 1/4 in.	6	
5	STD-160						WASHER, Internal lock, 1/4 in.	6	
6	STD-9						NUT, Plain, 1/4-28 NF-3	6	
							(Governor drive adapter attaching parts)		
7	STD-111						GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1	
8	69335						PLUG, Hex. hd., 1-1/4 x 1.00-20 THD	1	
9	65818						PIN, Engine timing	1	
10	STD-33						WASHER, Plain, 3/8 in.	8	
11	STD-678						WASHER, Internal lock, 3/8 in.	8	
12	STD-596						NUT, Plain, 3/8-24	8	
13	74855						BOLT, Crankshaft flange, See figure 7 (25)	8	
14	74646						NUT, Crimp lock, 3/8-24, See figure 7 (26)	8	
15	61548						PLATE, Name	1	
16	STD-1901						DRIVE STUD, #4 x 3/16 in. long (To attach nameplate)	4	

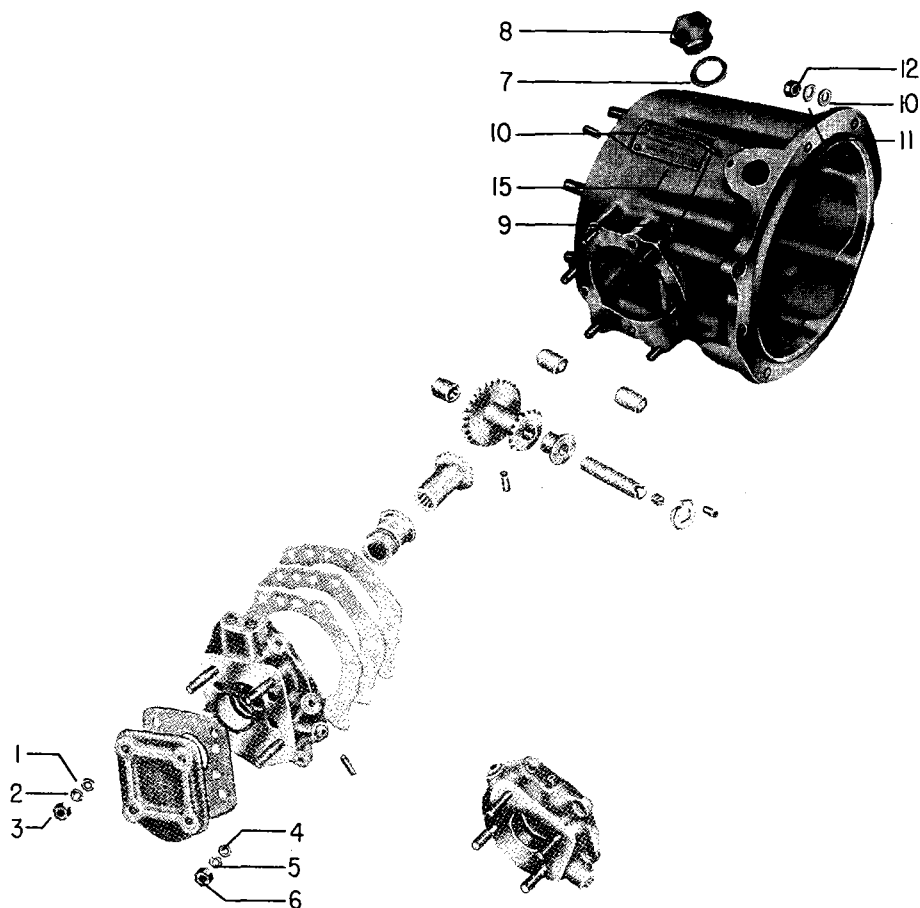


Figure 11. Reduction Gear Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION III

ACCESSORY HOUSING AND COVER ASSEMBLY

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION III

ACCESSORY HOUSING ASSEMBLY

Page Numbers

Engine Model	Acc'y. Hsg. & Att. Pts. 3-2	Shaftegear Ass'ys. 3-3	Mag. Tach. Str. Drives 3-4	Mag. Fuel. Inj. Dr. Str. Adapt. 3-5	Breather 3-6	Acc'y. Hsg. Cover 3-7	Oil Pump Ass'y. 3-8	Scav. Pump 3-9	Oil Pr. Rel. Vlv. 3-10	Acc'y. Covers 3-11
GSO-480-A1A6	A	A, B	A	A	A	A, B	A	A	A	A
GSO-480-A2A6	A	A, B	A	A	A	A	A	A	A	A
GSO-480-B1A6	A	A, B	A	A	A	A	A	A	A	A
GSO-480-B1B6	A, C	A, B	A	A, B	A, B	A, B	A	A	A	A
GSO-480-B1C6	A	A, B	A	A	A	A	A	A	A	A
GSO-480-B1C6	A	A, B	A	A	A	A	A	A	A	A
GSO-480-B1J6	A	A, B	A	A	A	A	A	A	A	A
GSO-480-B2D6	A	A, B	A	A	A	A	A	A	A	A
IGSO-480-A1A6	B	A, B	B	C	C	C	A	A	A	A
IGSO-480-A1B6	B	A, B	B	C	C	C	A	A	A	A
IGSO-480-A1C6	B	A, B	B	C	C	C	A	A	A	A
IGSO-480-A1E6	C	A, B	B	B	B	B	A	A	A	A
IGSO-480-A1F6	B	A, B	B	C	C	C	A	A	A	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III
3-2 - ACCESSORY HOUSING AND ATTACHING PARTS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	74135	HOUSING ASSEMBLY, Accessory	1	A
	74137	HOUSING ASSEMBLY, Accessory	1	B
	75572	HOUSING ASSEMBLY, Accessory	1	C
2	STD-1315	INSERT, Heli-coil, 1/4-20 x 1/2 in. long	5	A, B, C
3	72599	BUSHING, 1-1/8 ID x 1-17/64 OD x 31/32 in. long	1	A, B, C
4	STD-132	DOWEL, 1/8 dia. x 11/32 in. long	1	A, B, C
5	71341	BUSHING, 1-3/16 OD x 1.00 ID x 1.00 in. long	1	A, B, C
6	68425	BUSHING, 1-3/8 OD x 1-3/16 ID x 13/16 in. long, flanged	1	A, B, C
7	STD-394	DOWEL, 3/32 dia. x 11/32 in. long	1	A, B, C
8	66145	DOWEL, 1/4 dia. x 1/2 in. long	2	A, B, C
9	67742	BUSHING, 1-7/8 OD x 1-11/16 ID x 3/4 in. long	1	A, B, C
10	STD-859	DOWEL, 1/8 dia. x 9/32 in. long	1	A, B, C
11	67646	BUSHING, 1-1/16 OD x 7/8 ID x 1-7/32 in. long	1	A, B, C
12	1102	PLUG, Allen, 1/8-27 NPT	1	A, B, C
13	68313	STUD, 1/4-20 x 1-27/32 in. long, drilled	8	A, B, C
14	25-12	STUD, 1/4-20 x 1-1/2 in. long	13	A, B, C
15	25-13	STUD, 1/4-20 x 1-5/8 in. long	15	A, B, C
16	25-40	STUD, 1/4-20 x 5.00 in. long	1	A, B, C
17	25-27	STUD, 1/4-20 x 3-3/8 in. long	1	A, B, C
18	25-34	STUD, 1/4-20 x 4-1/4 in. long	2	A, B, C
19	25-16	STUD, 1/4-20 x 2.00 in. long	4	A, B, C
20	25-23	STUD, 1/4-20 x 2-7/8 in. long	1	A, B, C
21	25-37	STUD, 1/4-20 x 4-5/8 in. long	1	A, B
22	25-38	STUD, 1/4-20 x 4-3/4 in. long	1	C
23	25D-24	STUD, 1/4-20 x 3.00 in. long, drilled	1	A, B, C
24	STD-993	DOWEL, Oil, 7/16 ID x 13/16 in. long	1	A, B, C
25	STD-8	WASHER, Plain, 1/4 in.	13	A, B, C
26	STD-160	WASHER, Internal lock, 1/4 in.	12	A, B, C
27	STD-9	NUT, Plain, 1/4-28	11	A, B, C
28	STD-1230	BOLT, Hex. hd., 1/4-28 x 1-9/32 in. long	1	A, B, C
29	STD-1879	BOLT, Hex. hd., 1/4-28 x 2-3/32 in. long	1	A, B, C
30	31-14	STUD, 5/16-18 x 1-3/4 in. long	6	A
	31-14	STUD, 5/16-18 x 1-3/4 in. long	2	B
31	31-26	STUD, 5/16-18 x 3-1/4 in. long	1	A, B
32	31-16	STUD, 5/16-18 x 2.00 in. long	4	B
33	31-21	STUD, 5/16-18 x 2-5/8 in. long	1	A, B
34	38-16	STUD, 3/8-16 x 2.00 in. long	6	A, B
35	69286	ANNULUS, Oil seal	1	A, B
36	STD-783	PLUG, Allen, 1/4 pipe	1	A, B
37	69658	PIN, Timing	1	A, B
38	STD-1339	PLUG, Allen, 1/16-27 pipe	5	A, B
39	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1	A, B
40	STD-71	PLUG, Allen, 3/8 pipe	2	A, B
41	69335	PLUG, 5/8 hex. hd., 1.00-20 Thd.	1	A, B
42	69621	PLUG, 41/64 dia. x 3/16 in. long	1	A, B

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

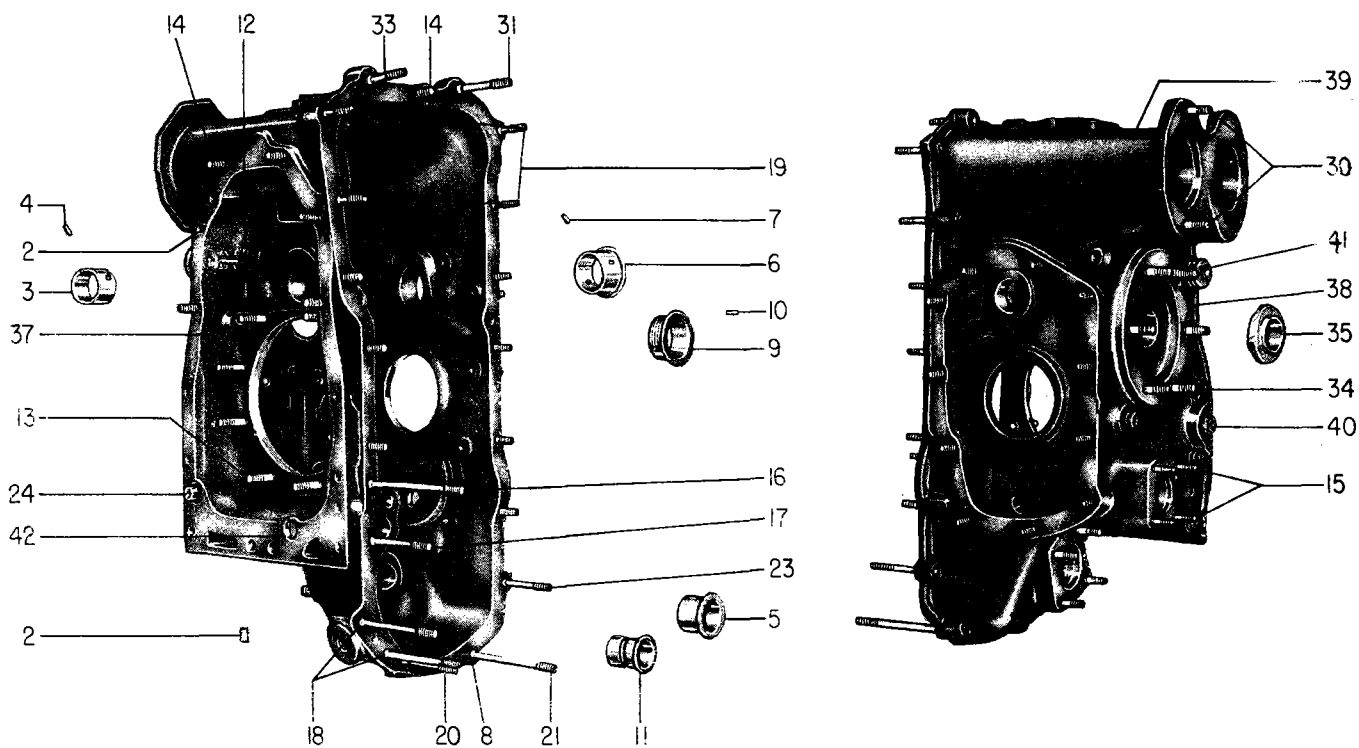


Figure 12. Accessory Housing and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-3 - GEAR TRAIN (SHAFTGEAR ASSEMBLIES)

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	67782						SHAFTGEAR ASSEMBLY, Fuel pump drive	1	A, B
2	STD-213						OIL SEAL, 3/4 ID x 1-3/8 OD x 5/16 in. wide	1	A, B
3	67704						SHAFTGEAR ASSEMBLY, Vacuum pump	1	A, B
4	STD-1708						SEAL, 1-7/16 OD x 1.00 ID x 25/64 in wide	1	A, B
5	67690						WASHER, Generator drive gear, thrust	1	A, B
6	69177						SHAFTGEAR ASSEMBLY, Generator drive	1	A, B

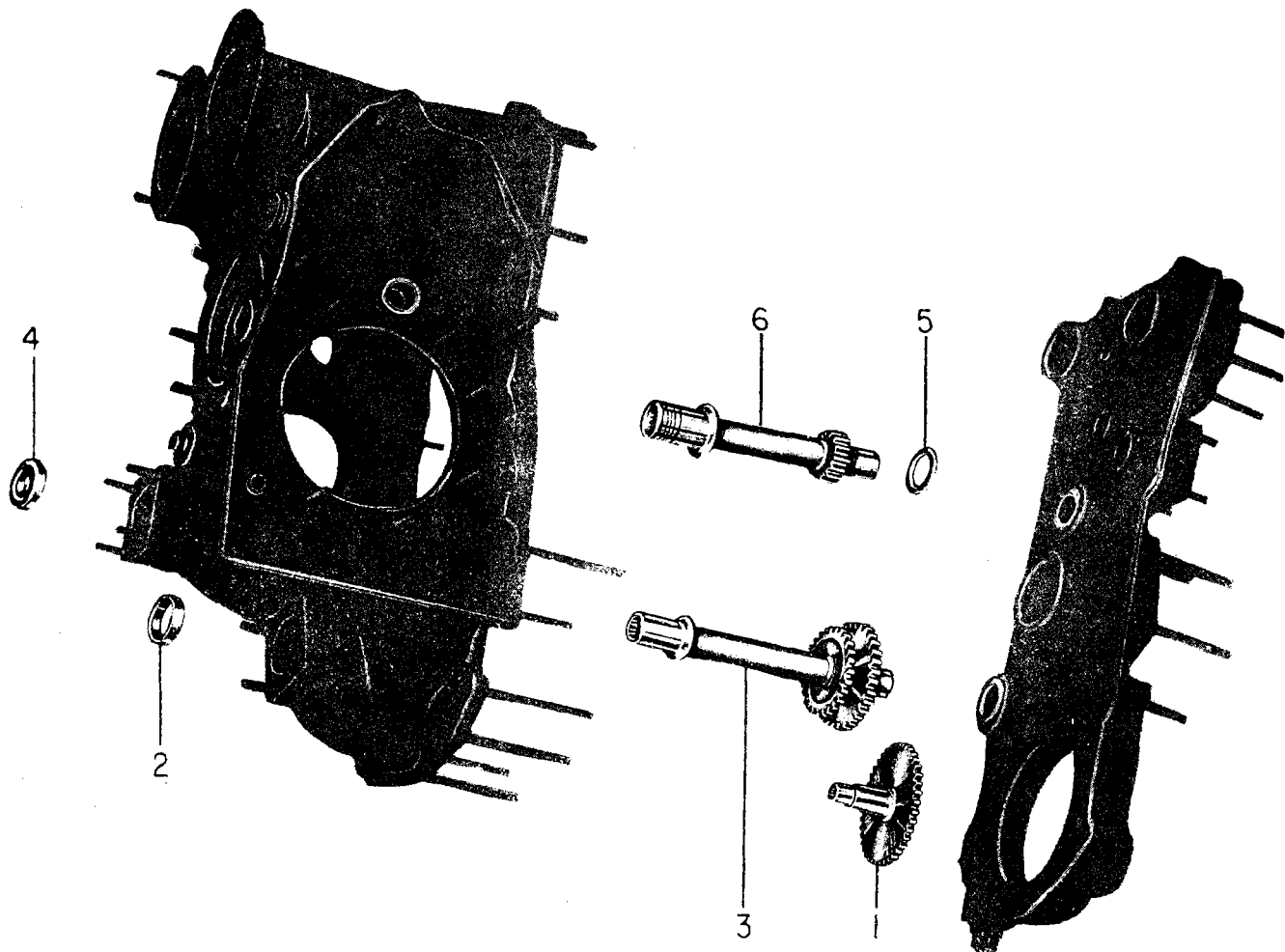


Figure 13. Shaftgear Assemblies

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-4 - MAGNETO, TACHOMETER AND STARTER DRIVES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	72384						SHAFT, Magneto drive idler	1	A, B
2	STD-1854						WASHER, 5/16 dia. (seal)	1	A, B
3	STD-1860						SCREW, Flat fill. hd., drilled shank, 5/16-24 x 3-1/8 in. long	1	A, B
4	STD-2						NUT, Slotted, 5/16-24	1	A, B
5	AN381-2-10						PIN, Cotter, 1/16 dia. x 5/8 in. long	1	A, B
6	68545						WASHER ASSEMBLY, Magneto drive idler shaft	1	A, B
7	68568						HUB ASSEMBLY, Magneto drive idler	1	A, B
8	68563						BUSHING, Magneto drive idler gear	1	A, B
9	STD-19						DOWEL, 3/32 dia. x 7/32 in. long	1	A, B
10	68572						SLINGER, Oil	1	A, B
11	68553						GEAR, Magneto drive idler	1	A, B
12	AN102010						BOLT, Drive end, 1/4-28 x 3/4 in. long	4	A
	AN102015						BOLT, Drive end, 1/4-28 x 1-1/16 in. long	4	B
13	STD-43						NUT, Slotted shear, 1/4-28	4	A, B
14	68410						GEAR ASSEMBLY, Tachometer driven	1	A, B
15	STD-547						SEAL, 9/16 ID x 1-1/4 OD x 5/16 in. wide	1	A, B
16	67610						GEAR ASSEMBLY, Starter drive (not illustrated)	1	A, B
17	67583						GEAR, Starter drive	1	A, B
18	67609						GEAR, Accessory drive	1	A, B
19	72139						DOWEL, 1/4 dia. x 7/16 in. long, hollow pin	3	A, B
20	AN115907						SCREW, Fill. hd., drilled, 1/4-28 x 1/2 in. long	6	A, B

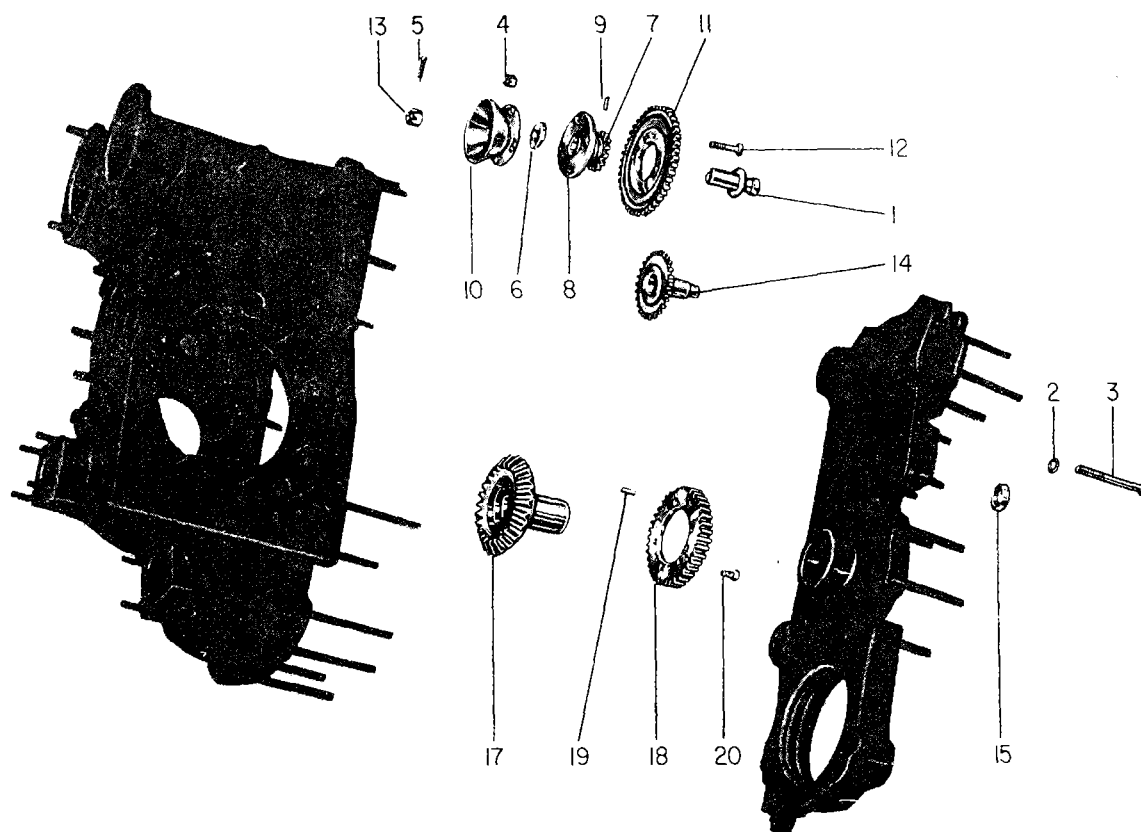


Figure 14. Magneto, Tachometer and Starter Drives

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)

3-5 - MAGNETO DRIVE, STARTER DRIVE ADAPTER AND FUEL INJECTOR DRIVE

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	69566						SHAFT ASSEMBLY, Magneto drive	1	A, B, C
2	69565						SLEEVE, Magneto drive shaft	1	A, B, C
3	68565						GEAR, Magneto drive shaft	1	A, B
	68565						GEAR, Magneto drive shaft	2	C
4	72932						SHAFT, Injector drive	1	C
5	STD-1050						CIRCLIP, 1-23/64 ID x 1/16 wire	2	C
6	69569						WASHER, Magneto drive	1	A, B
	69569						WASHER, Magneto drive	2	C
7	69570						RING, Magneto drive, gear retaining	1	A, B
	69570						RING, Magneto drive, gear retaining	2	C
8	69811						GEAR, Fuel injector idler	1	C
9	67697						BALL BEARING, Magneto idler	1	C
10	STD-1701						RING, 1-1/4 OD x 3/64 internal retaining	1	C
11	69812						SHAFT, Fuel injector idler	1	C
12	STD-8						WASHER, Plain, 1/4 in.	1	C
13	STD-97						NUT, Slotted, 1/4-28	1	C
14	67708						GASKET, Starter drive adapter	2	A, B, C
15	72182						RING, 1/8 dia. section x 1-3/4 ID, oil seal	1	A
16	67709						SHIM, Starter drive adapter	1	A, B, C
17	68694						ADAPTER ASSEMBLY, Starter drive	1	A, B, C
18	67596						BUSHING, 1-11/16 OD x 1-1/2 ID x 1.00 in. long	1	A, B, C
19	71616						BUSHING, 1-11/16 OD x 1-1/2 ID x 1.00 in. long	1	A, B, C
20	STD-394						DOWEL, 3/32 dia. x 11/32 in. long	2	A, B, C
21	STD-8						WASHER, Plain, 1/4 in.	6	A, B, C
22	STD-696						WASHER, 17/64 ID x 1/2 OD x 1/32 in. thick	AR	A, B, C
23	STD-97						NUT, Slotted, 1/4-28	6	A, B, C
24	STD-1702						SEAL, 2-5/8 OD x 1-13/16 ID x 1/2 in. wide	1	A, B, C
25	67605						JAW, Starter	1	A, B, C
26	STD-1709						CIRCLIP, 1-5/32 OD x 5/64 dia. wire	1	A, B, C
27	67633						GASKET, Starter drive pad	1	A, B, C
28	68186						ADAPTER, Starter	1	A, B, C
29	1102						PLUG, Allen, 1/8-27 NPT	1	A, B, C

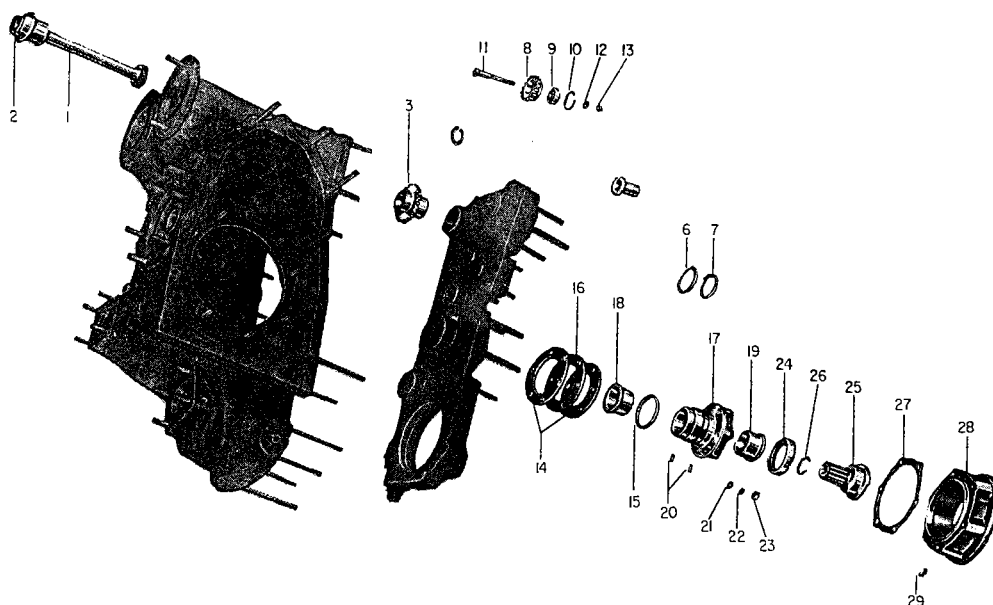


Figure 15. Magneto Drive, Starter Drive Adapter, and Fuel Injector Drive

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-6 - ACCESSORY HOUSING BREATHER

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	67746						GASKET, Accessory housing breather	2	A, B, C
2	72031						TUBE AND PLATE ASSEMBLY, Accessory housing breather	1	A, B, C
3	69907						BREATHER, Accessory housing	1	A
	69174						BREATHER, Accessory housing	1	B, C
4	STD-8						WASHER, Plain, 1/4 in.	3	A, B, C
5	STD-160						WASHER, Internal lock, 1/4 in.	3	A, B, C
6	STD-1419						BOLT, Hex. hd., 1/4-20 x 1-1/8 in. long	2	A
7	STD-1621						BOLT, Hex. hd., 1/4-20 x 2-1/4 in. long, not ill.	1	A
8	STD-1215						BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long, not ill.	3	B, C

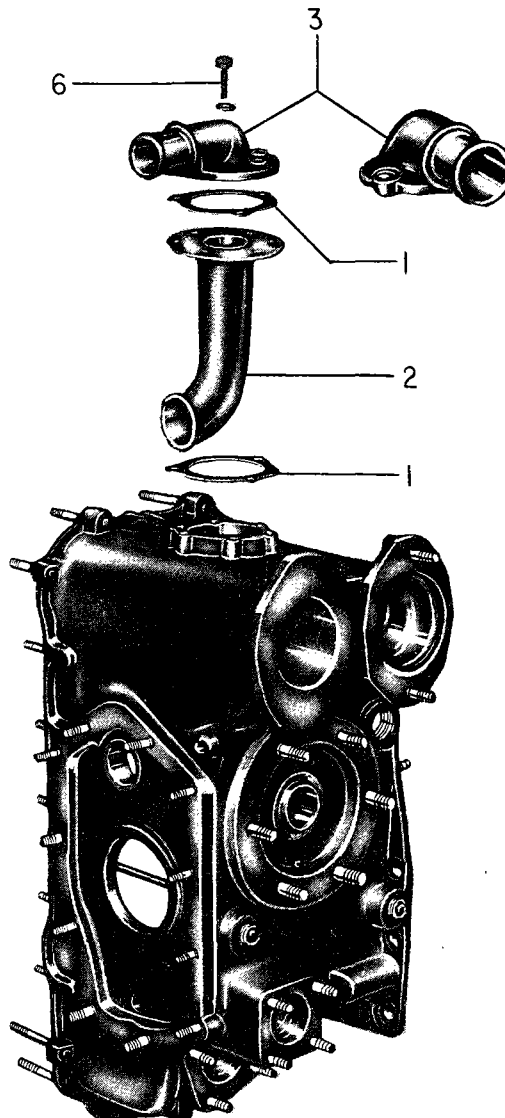


Figure 16. Accessory Housing Breather

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-7 - ACCESSORY HOUSING COVER

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68556						GASKET, Accessory housing cover	1	A, B, C
2	73094						COVER ASSEMBLY, Accessory housing	1	A, B
	73093						COVER ASSEMBLY, Accessory housing	1	C
3	67653						BUSHING, 1-3/16 OD x 1.00 ID x 1-1/8 in. long	1	A, B, C
4	STD-951						DOWEL, 1/8 dia. x 7/16 long	1	A, B, C
5	68590						BUSHING, 1-3/16 OD x 1.00 ID x 1-3/16 in. long	1	A, B, C
6	71124						BUSHING, 1-1/2 ID x 1-11/16 OD x 45/64 in. long	1	A, B
	71124						BUSHING, 1-1/2 ID x 1-11/16 OD x 45/64 in. long	2	C
7	STD-951						DOWEL, 1/8 dia. x 7/16 in. long	1	A, B, C
8	STD-1104						PLUG, Square head, drilled, 3/4-14 NPT	2	A, B, C
9	25-12						STUD, 1/4-20 x 1-1/2 in. long	5	A, B, C
10	25D-16						STUD, 1/4-20 x 2.00 in. long	6	A, B, C
11	STD-434						DOWEL, 1/8 dia. x 21/64 in. long	1	A, B, C
12	31-14						STUD, 5/16-18 x 1-3/4 in. long	1	A, B, C
13	38-31						STUD, 3/8-16 x 3-7/8 in. long	6	A, B, C
14	STD-783						PLUG, Allen hd., 1/4-18 NPT	1	A, B, C
15	1102						PLUG, Allen hd., 1/8-27 NPT	2	A, B, C
16	STD-1053						PLUG, .204 to .205 dia. x 5/16 in. long	1	A, B, C
17	25-29						STUD, 1/4-20 x 3-5/8 in. long	1	A, B, C
18	STD-1339						PLUG, Allen, 1/6-27 NPT	1	C

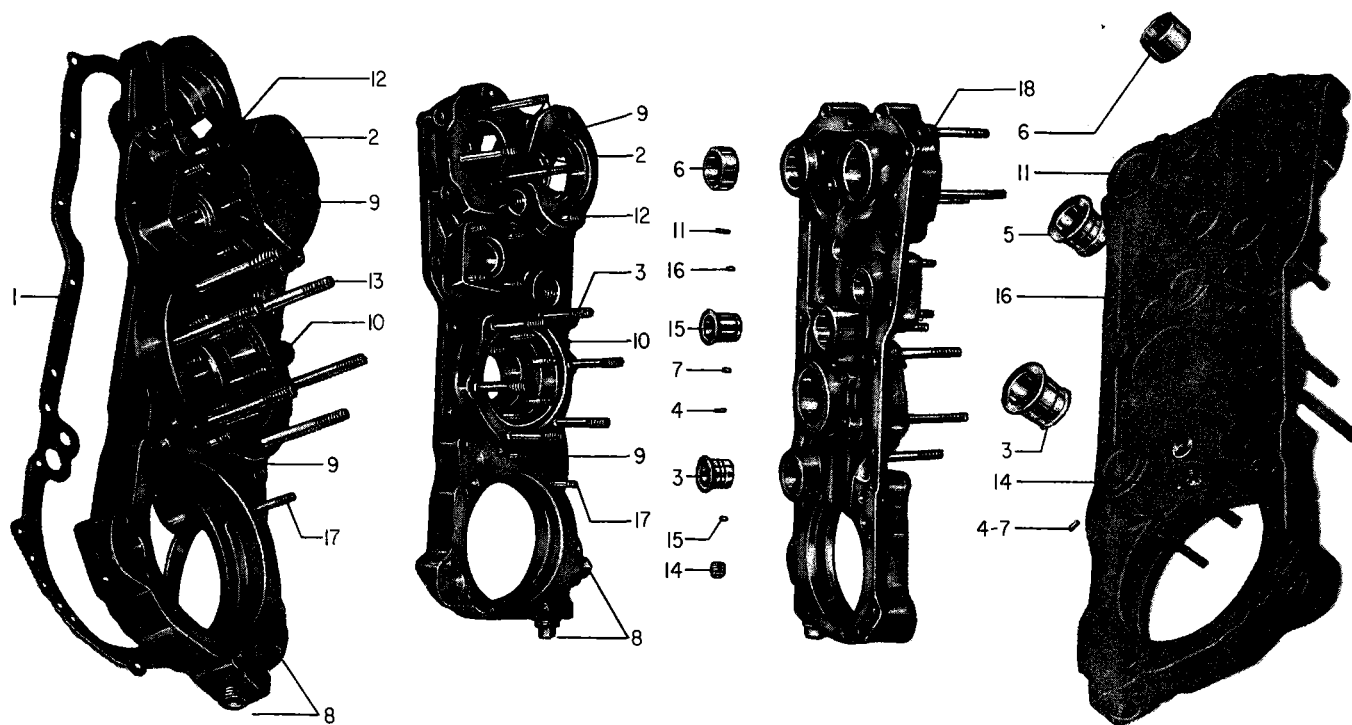


Figure 17. Accessory Housing Cover

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-8 - OIL PUMP ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73090						PUMP ASSEMBLY, Oil (not illustrated)	1	A
2	73087						BODY ASSEMBLY, Oil pressure pump	1	A
3	1028-B						BALL, 11/16 dia.	1	A
4	71999						RETAINER, Ball check valve	1	A
5	68466						BUSHING, Oil pump drive shaft	1	A
6	654-B						SPRING, Check valve	1	A
7	STD-394						DOWEL, 5/64 dia. x 11/32 in. long	1	A
8	25D-23						STUD, 1/4-20 x 2-7/8 in. long	4	A
9	STD-1392						PLUG, .268 to .269 dia. x 5/16 in. long	1	A
10	MS122200						INSERT, Heli-coil, 5/16-18 x 31/64 in. long	4	A
11	25D-24						STUD, 1/4-20 x 3.00 in. long	1	A
12	25D-26						STUD, 1/4-20 x 3-1/4 in. long	1	A
13	68473						SLEEVE, Oil relief valve	1	A
14	STD-1164						INSERT, Heli-coil, 5/16-18 x 5/8 in. long	1	A
15	31-14						STUD, 5/16-18 x 1-3/4 in. long	3	A
16	31-12						STUD, 5/16-10 x 1-1/2 in. long	1	A
17	67762						DOWEL, Oil pump	2	A
18	75516						SHAFT, Hydraulic pump or oil pump	1	A
19	STD-1973						KEY, Woodruff, 1/8 x 3/4 in. dia.	1	A
20	61297						IMPELLER, Oil pressure pump, driving	1	A
21	68404						IMPELLER, Oil pressure pump, driven	1	A
22	68456						GASKET, Hydraulic and oil pump	1	A

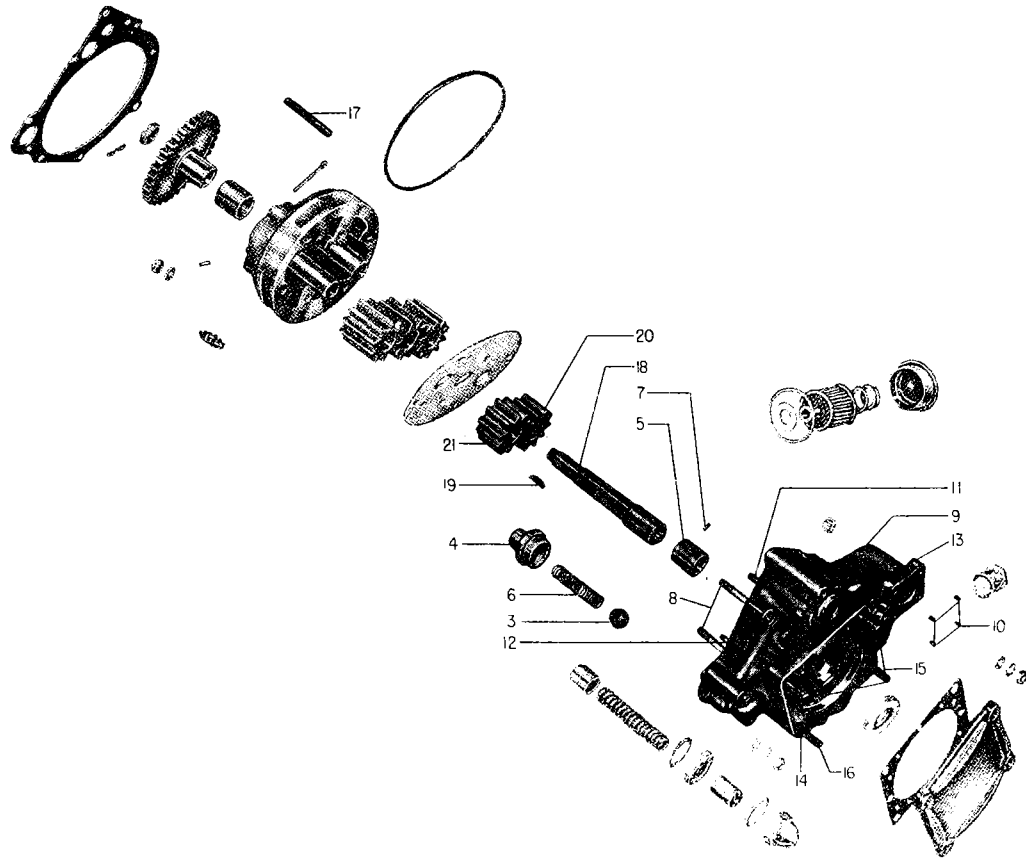


Figure 18. Oil Pump Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)

3-9 - OIL SCAVENGE PUMP

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68468						SPACER, Oil pressure and oil scavenge pump	1	A
2	66426						IMPELLER, Oil scavenge pump, driving	1	A
3	68403						IMPELLER, Oil scavenge pump, driven	2	A
4	68465						BODY ASSEMBLY, Oil scavenge pump	1	A
5	68466						BUSHING, Oil pump drive shaft	1	A
6	STD-394						DOWEL, 3/32 dia. x 11/32 in. long	1	A
7	68161						SHAFT, Oil pump idler, long	1	A
8	68156						SHAFT, Oil pump idler, short	1	A
9	AN381-4-20						PIN, 1/8 dia. x 1-1/4 in. long, cotter	2	A
10	68464						STRAINER, Oil scavenge pump	1	A
11	STD-8						WASHER, Plain, 1/4 in.	6	A
12	STD-71						PLUG, Allen, 3/8 pipe	1	A
13	STD-43						NUT, Slotted shear, 1/4-28	6	A
14	68467						GEAR, Oil pressure and scavenge pump	1	A
15	STD-61						NUT, Slotted shear	1	A
16	STD-60						PIN, 3/32 dia. x 1.00 in. long, cotter	1	A

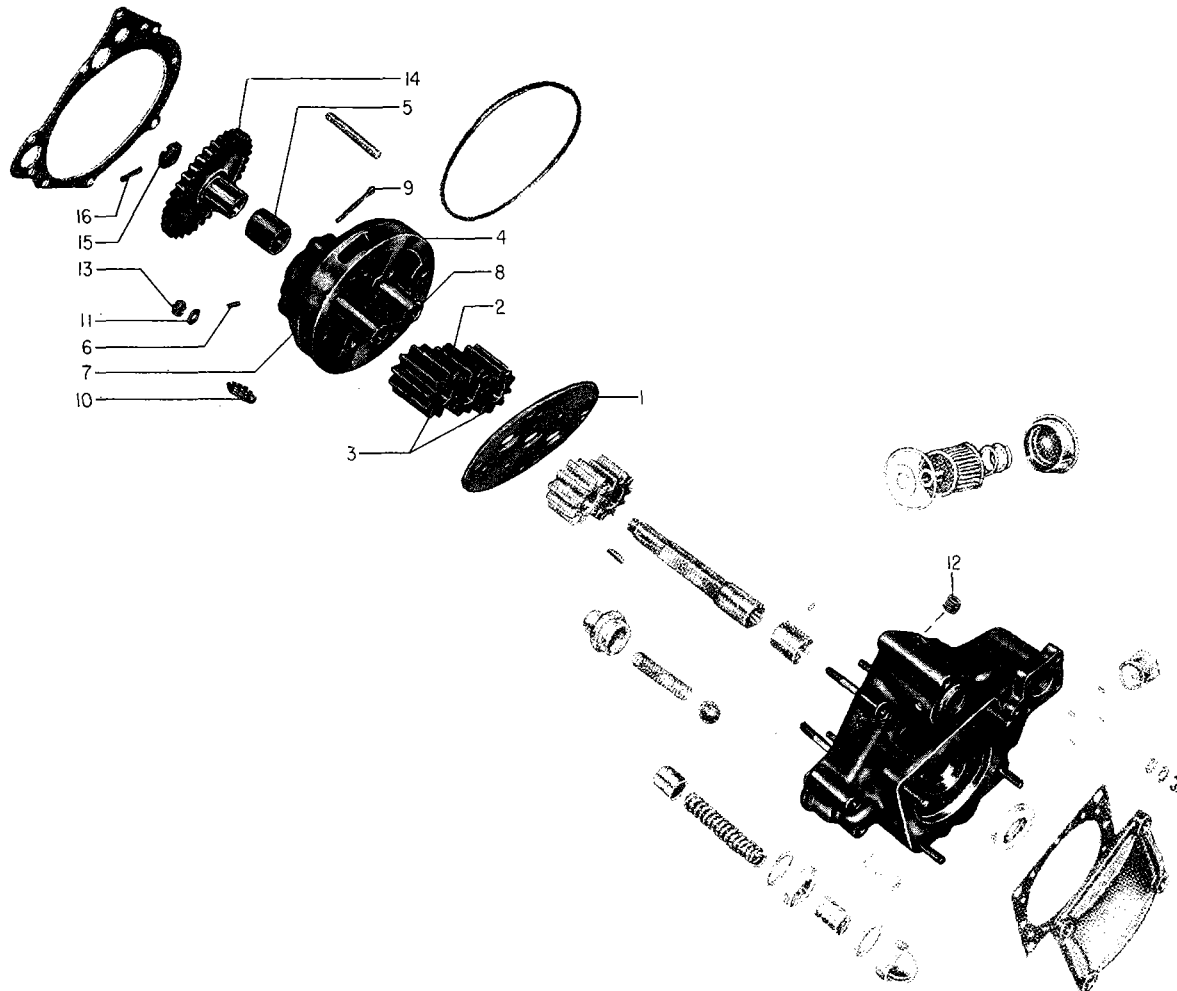


Figure 19. Oil Scavenge Pump

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)
3-10 - OIL FILTER, AND OIL PRESSURE RELIEF VALVE

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	STD-208						OIL SEAL, 7/8 ID x 1-1/2 OD x 5/16 wide	1	A
2	70460						WASHER, Oil filter assembly	1	A
3	72785						OIL FILTER ASSEMBLY	1	A
4	AN900-28						GASKET, 1-3/4 ID x 2.00 OD x 3/32 in. annular	1	A
5	71774						COVER, Oil filter	1	A
6	67981						PLUNGER, Oil relief	1	A
7	68542						SPRING, Oil pressure relief	1	A
8	AN900-12						GASKET, 3/4 ID x 3/32 in. thick, annular	2	A
9	662						NUT, Relief valve adjusting, lock	1	A
10	71226						SCREW, Oil relief valve, adjusting	1	A
11	67940						NUT, Oil relief, crown	1	A

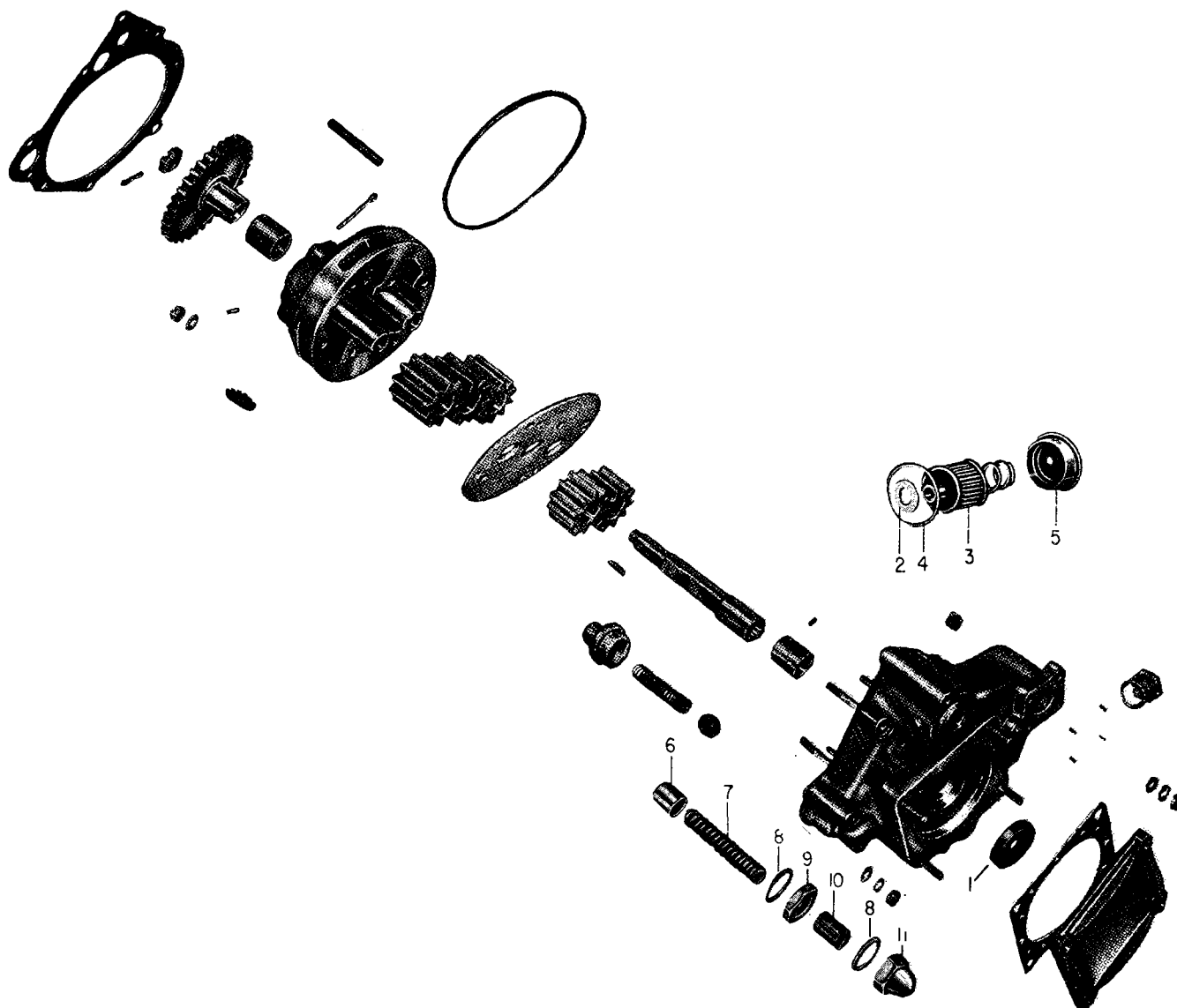


Figure 20. Oil Filter and Oil Pressure Relief Valve

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION III (CONT.)

3-11 - ACCESSORY COVERS, GASKETS AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	AN4047-1						GASKET, Accessory drive	2	A
2	671-B						COVER, Starter and generator	2	A
3	STD-33						WASHER, Plain, 3/8 in.	12	A
4	STD-678						WASHER, Internal lock, 3/8 in.	12	A
5	STD-596						NUT, Plain, 3/8-24 x 21/64 thick	12	A
6	8313						GASKET, Vacuum pump	2	A
7	60430						COVER, Vacuum pump	2	A
8	STD-8						WASHER, Plain, 1/4 in.	8	A
9	STD-160						WASHER, Internal lock, 1/4 in.	8	A
10	STD-9						NUT, Plain, 1/4-28	8	A
11	1691-C						GASKET, Fuel pump	1	A
12	60431						COVER, Fuel pump	1	A
13	STD-35						WASHER, Plain, 5/16 in.	4	A
14	STD-475						WASHER, Internal lock, 5/16 in.	4	A
15	STD-37						NUT, Plain, 5/16-24	4	A
16	20415						GASKET, Vacuum pump	1	A
17	72412						COVER, Vacuum pump	1	A
18	STD-35						WASHER, Plain, 5/16 in.	4	A
19	STD-475						WASHER, Internal lock, 5/16 in.	4	A
20	STD-37						NUT, Plain, 5/16-24	4	A

NOTE

All accessory covers, gaskets and attaching parts
will be found on the other figures in this section.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION IV

CYLINDER, PISTON AND VALVE TRAIN

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION IV

CYLINDER, PISTON AND VALVE TRAIN

Page Numbers

Engine Model	Conn. Rods Brg's. 4-2	Piston Ass'y. 4-3	Cylinder Ass'y. 4-4	Valve Ass'y. 4-5	Valve Rocker Ass'y. 4-6	Push Rod 4-7	Int. & Exh. Flanges & Baffles 4-8
GSO-480-A1A6	A	A	A	A	A	A	A
GSO-480-A2A6	A	A	A	A	A	A	A
GSO-480-B1A6	A	A, B	A, B	A, B	A	A	A
GSO-480-B1B6	A	A	A	A	A	A	A
GSO-480-B1C6	A	A, B	A, B	A, B	A	A	A
GSO-480-B1E6	A	A	A	A	A	A	A
GSO-480-B1J6	A	A, B	B	B	A	A	A
GSO-480-B2D6	A	A, B	A, B	A, B	A	A	A
IGSO-480-A1A6	A	A, B	A, B	A, B	A	A	A
IGSO-480-A1B6	A	A, B	A, B	A, B	A	A	A
IGSO-480-A1C6	A	A	A	A	A	A	A
IGSO-480-A1E6	A	B	B	B	A	A	A
IGSO-480-A1F6	A	A	A	A	A	A	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV
4-2 CONNECTING RODS AND BEARINGS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	67275						ROD ASSEMBLY, Connecting	6	A
	78028						ROD ASSEMBLY, Connecting	6	A*
2	65819						BUSHING, Connecting rod, upper	6	A
3	74667						BOLT, Connecting rod	12	A
	78027						BOLT, Connecting rod	12	A*
4	74646						NUT, Connecting rod	12	A
5	67276						BEARING, Connecting rod	12	A
6	72218						BEARING, Connecting rod (Alternate and use in pairs)	12	A

* - See Lycoming Service Instruction #1183
for full details on 78028 connecting rod assembly.

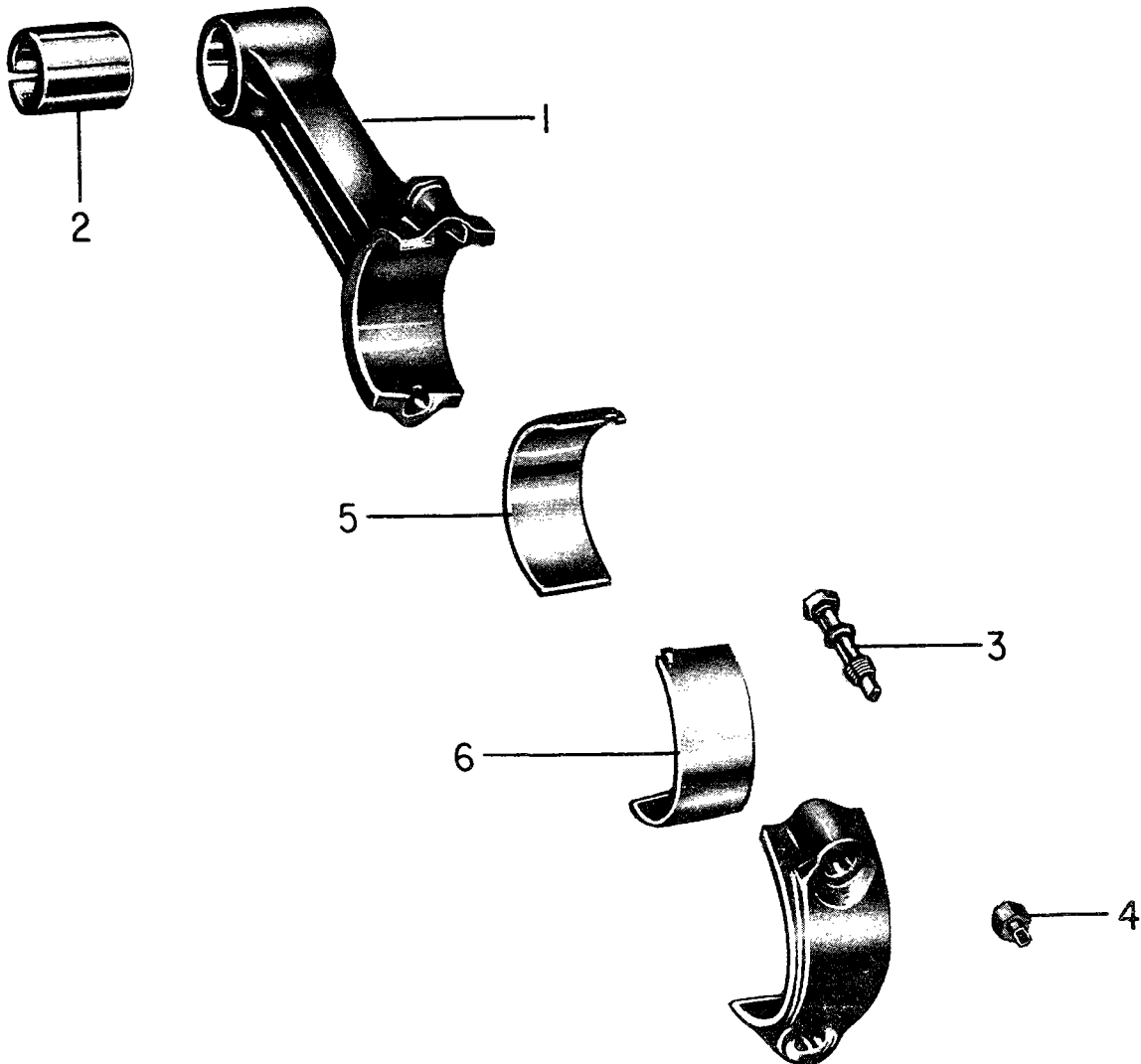


Figure 22. Connecting Rod Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.)
4-3 - PISTON AND PISTON RING ASSEMBLIES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	74242						PISTON, 3 ring	6	A, B
	71545						PISTON, 4 ring, See note	6	A, B
	72578						PISTON, 5 ring	6	A, B
	73976						PISTON, 5 ring	6	A, B
2	69650						PIN, Piston	6	A, B
3	72198						PLUG, Piston pin	12	A, B
4	74673						RING, Piston, top compression (cyl's. 76369, 76480, 75393)	12	A, B
	74241						RING, Piston, top compression (cyl. 75215)	12	A, B
	71556						RING, Piston, top compression (cyl. 71893, 76369)	12	A, B
	74673						RING, Piston, top compression (cyl's. 76369, 76480, 75393)	18	A, B
5	73998						RING, Piston, oil regulating, expander type	6	A, B
	72454						RING, Piston, oil regulating, expander type	6	A, B
	73857						RING, Piston, oil regulating, expander type	6	A, B
6	69235						RING, Piston, scraper (cyl's. 71893, 76369, 76480, 75393)	6	A, B

NOTE

Piston, Lycoming P/N 71545, is being maintained in stock, for use in cylinder assembly P/N 71893 which is no longer available.

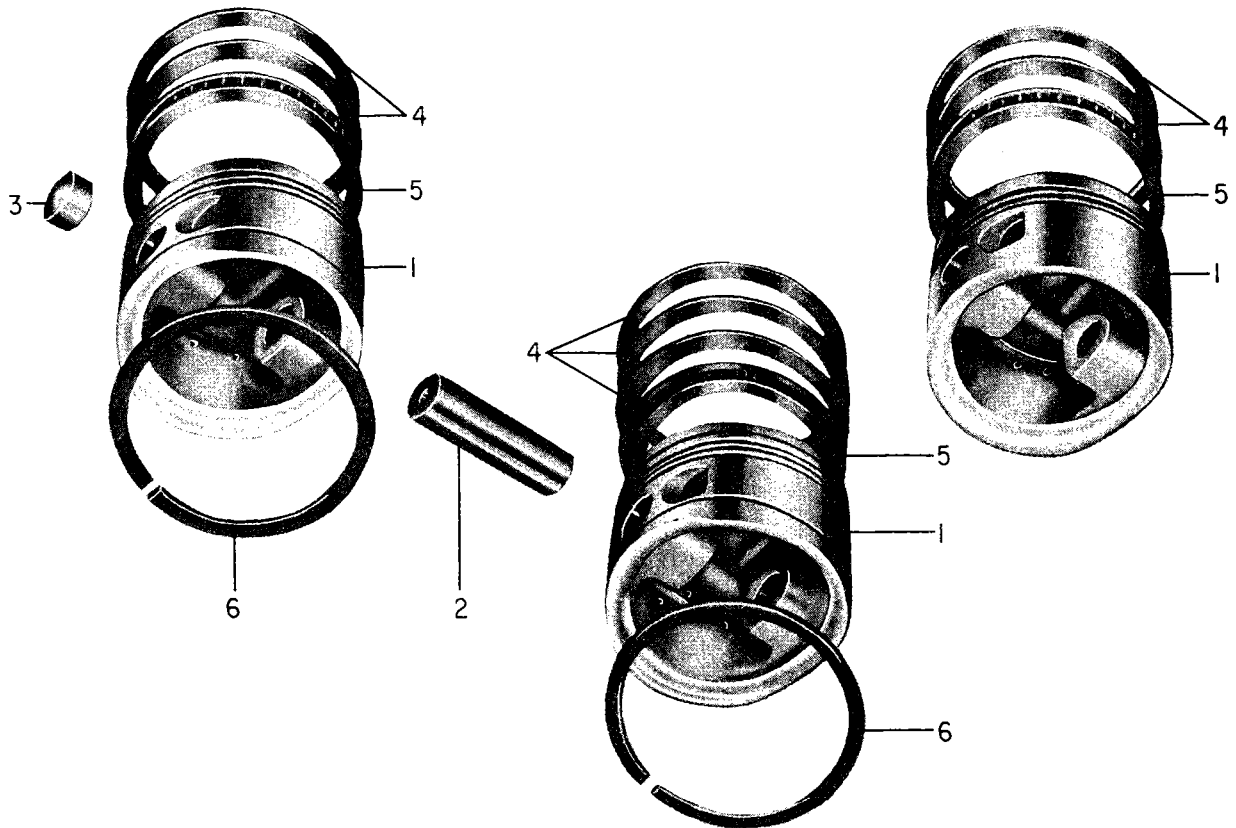


Figure 23. Piston and Ring Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.) 4-4 - CYLINDER ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	75393						CYLINDER ASSEMBLY, Chrome (3 or 5 ring piston)	6	A
	75215						CYLINDER ASSEMBLY, Nitrided (3 ring piston)	6	B
	76369						CYLINDER ASSEMBLY, Chrome (3, 4 or 5 ring piston)	6	C
	76480						CYLINDER ASSEMBLY, Chrome (3 or 5 ring piston)	6	D
2	71895						SEAT, Intake valve	6	A, B, C, D
3	71894						SEAT, Exhaust valve	6	A, B, C, D
4	66713						GUIDE, Intake valve	6	A, B, C, D
5	75838						GUIDE, Exhaust valve	6	A, B, C, D
	72897						GUIDE, Exhaust valve	6	A, B, C, D
6	69260 P10						INSERT, Spark plug, 18-1.5mm (long reach)	12	A, B, C, D
	66796 P10						INSERT, Spark plug, 18-1.5mm (short reach)	12	A, B, C, D
7	31-12						STUD, 5/16-18 x 1-1/2 in. long	12	A, B, C, D
8	25-8						STUD, 1/4-20 x 1.00 in. long	24	A, B, C, D
9	66670						BUSHING, Rocker shaft, inner	24	A, B, C, D
10	AN823-6D						ELBOW, 3/8 flared tube, 1/4 pipe Thd. 45°	6	A, B, C, D
11	72343						STABILIZER, Cylinder head fins, 15 teeth	6	A, B, C, D
12	72344						STABILIZER, Cylinder head fins, 26 teeth, not ill.	6	A, B, C, D
13	73946						STABILIZER, Cylinder head fins, 20 teeth, not ill.	6	A, B, C, D

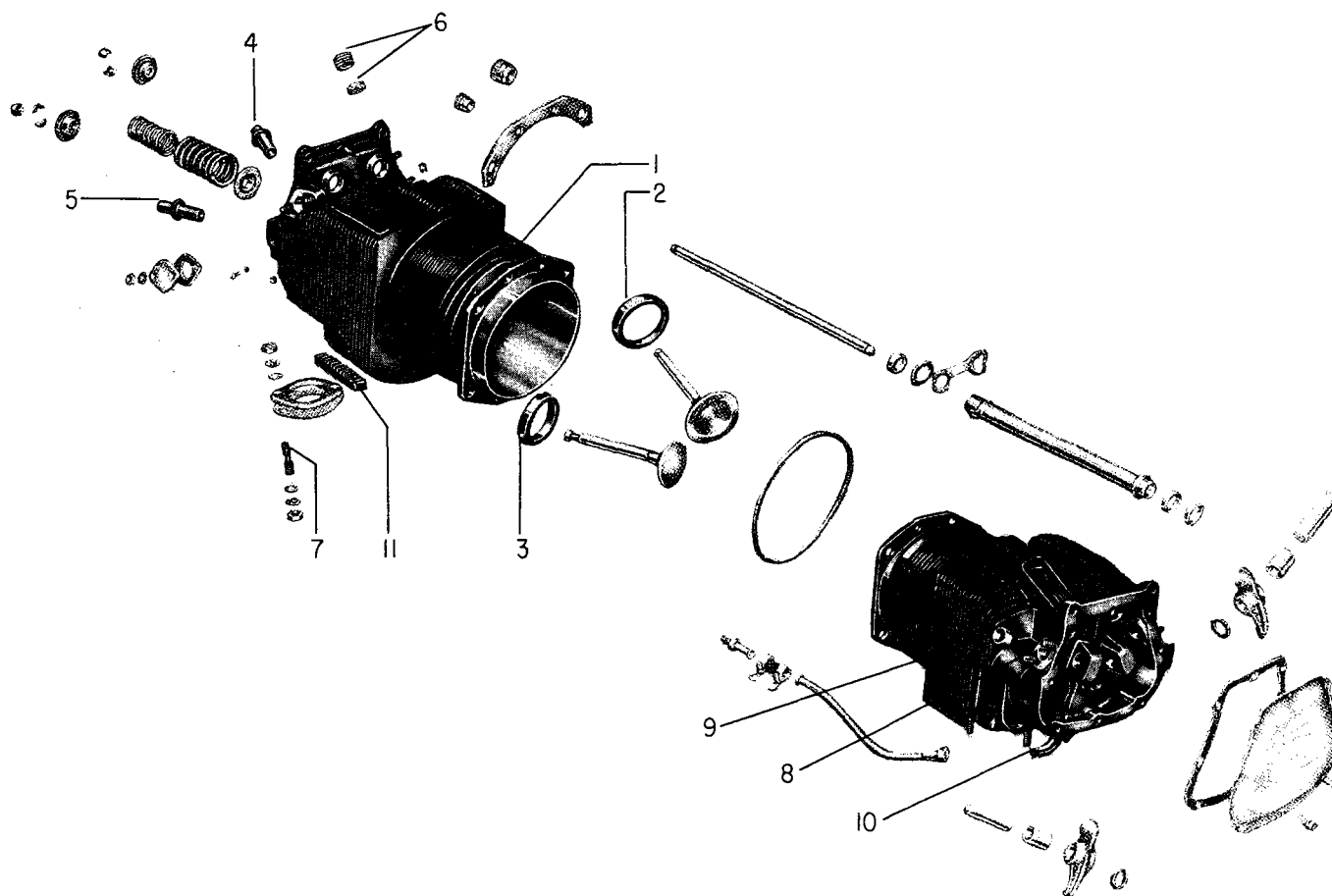


Figure 24. Cylinder Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.)
4-5 - VALVES AND RELATED PARTS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73129	VALVE, Intake	6	A, B
2	74802	VALVE, Exhaust, rotator type (inconel)	6	A, B
	71381	VALVE, Exhaust, rotator type, 7/16 in. dia.	6	*
	73111	VALVE, Exhaust, rotator type, 1/2 in. dia.	6	A, B
3	68325	SEAT, Valve spring, lower	6	A, B
4	73112	SEAT, Valve spring, lower, 1/2 in. dia. valve	6	A, B
5	68326	SPRING, Valve, outer	12	A, B
6	68328	SPRING, Valve, auxiliary	12	A, B
7	73115	SEAT, Valve spring (rotator type), 1/2 in. dia. valve	6	A, B
	68325	SEAT, Valve spring (rotator type), 7/16 in. dia. valve	6	*
8	68327	SEAT, Valve spring	6	A, B
9	MS-13997-3	KEY, Valve, rotator type	12	A, B
	72050	KEY, Valve, rotator type, 7/16 in. dia. valve	12	*
10	60009	KEY, Valve	12	A, B
11	MS-13998-3	CAP, Valve stem	6	A, B
	69697	CAP, Valve stem, 7/16 in. dia. valve	6	*

* - Parts marked in this manner are still available for cylinder assemblies employing a 7/16 in. dia. exhaust valve.

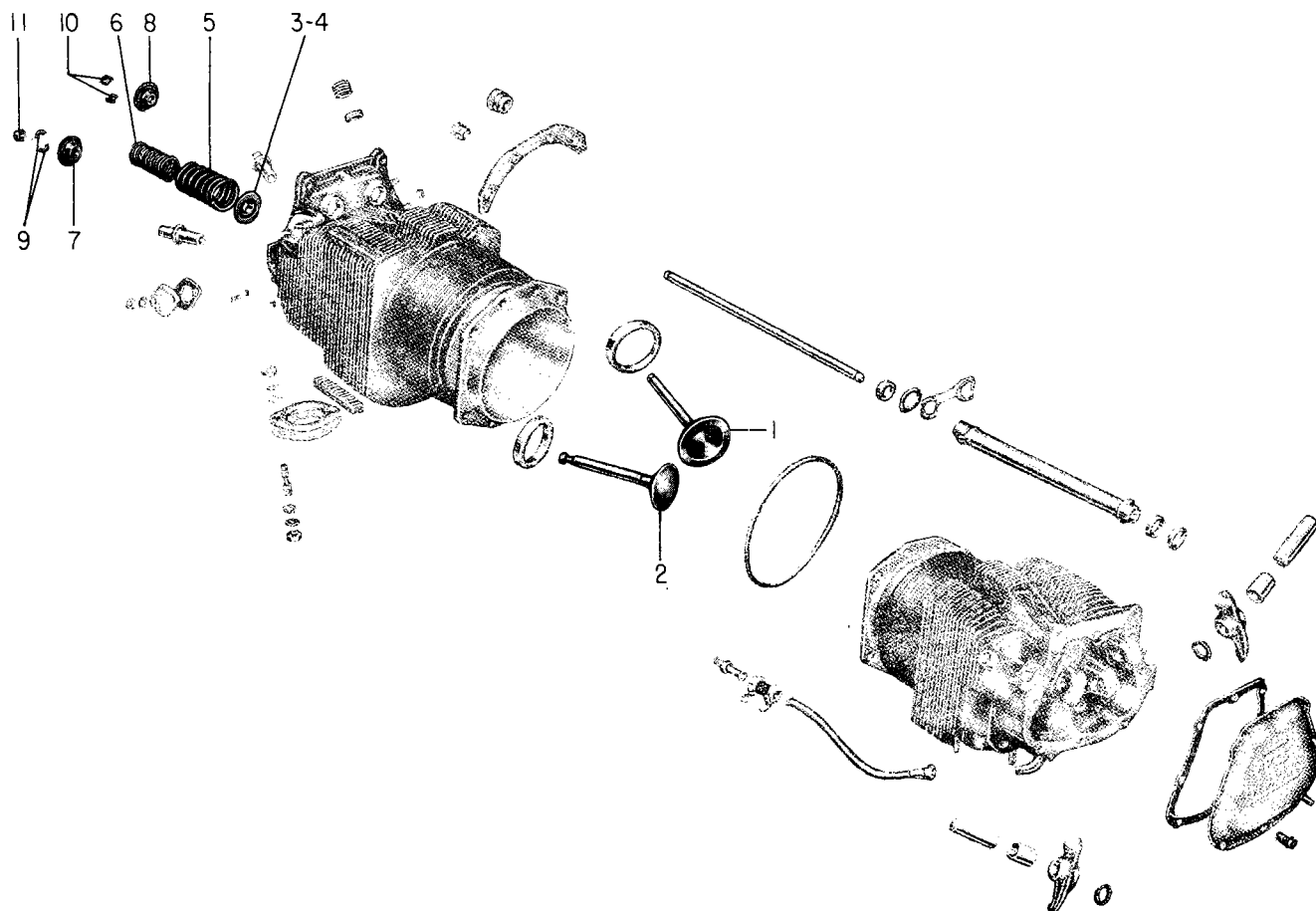


Figure 25. Valves and Related Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.) 4-6 - VALVE ROCKER ASSEMBLY

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	71549	WASHER, Valve rocker thrust (See Lycoming Service Bulletin #225A for details)	12	A
2	67113	ROCKER ASSEMBLY, Intake valve	6	A
3	67114	BUSHING, Valve rocker	6	A
4	72626	SHAFT, Valve rocker	12	A
5	66732	GASKET, Valve rocker shaft cover	12	A
6	66731	COVER, Valve rocker shaft	12	A
7	STD-160	WASHER, Shakeproof lock, 1/4 in.	24	A
8	STD-9	NUT, Plain, 1/4-28	24	A
9	67112	ROCKER ASSEMBLY, Exhaust valve	6	A
10	67114	BUSHING, Valve rocker	6	A
11	67193	GASKET, Rocker box cover	6	A
12	68795	COVER ASSEMBLY, Rocker box	6	A
13	STD-1925	SCREW, Pan hd., self-locking, 1/4-20 x 5/8 in. long	48	A
14	74494	PLATE, Spark plug reach caution (not illustrated)	6	A*

* - To designate short reach spark plugs.

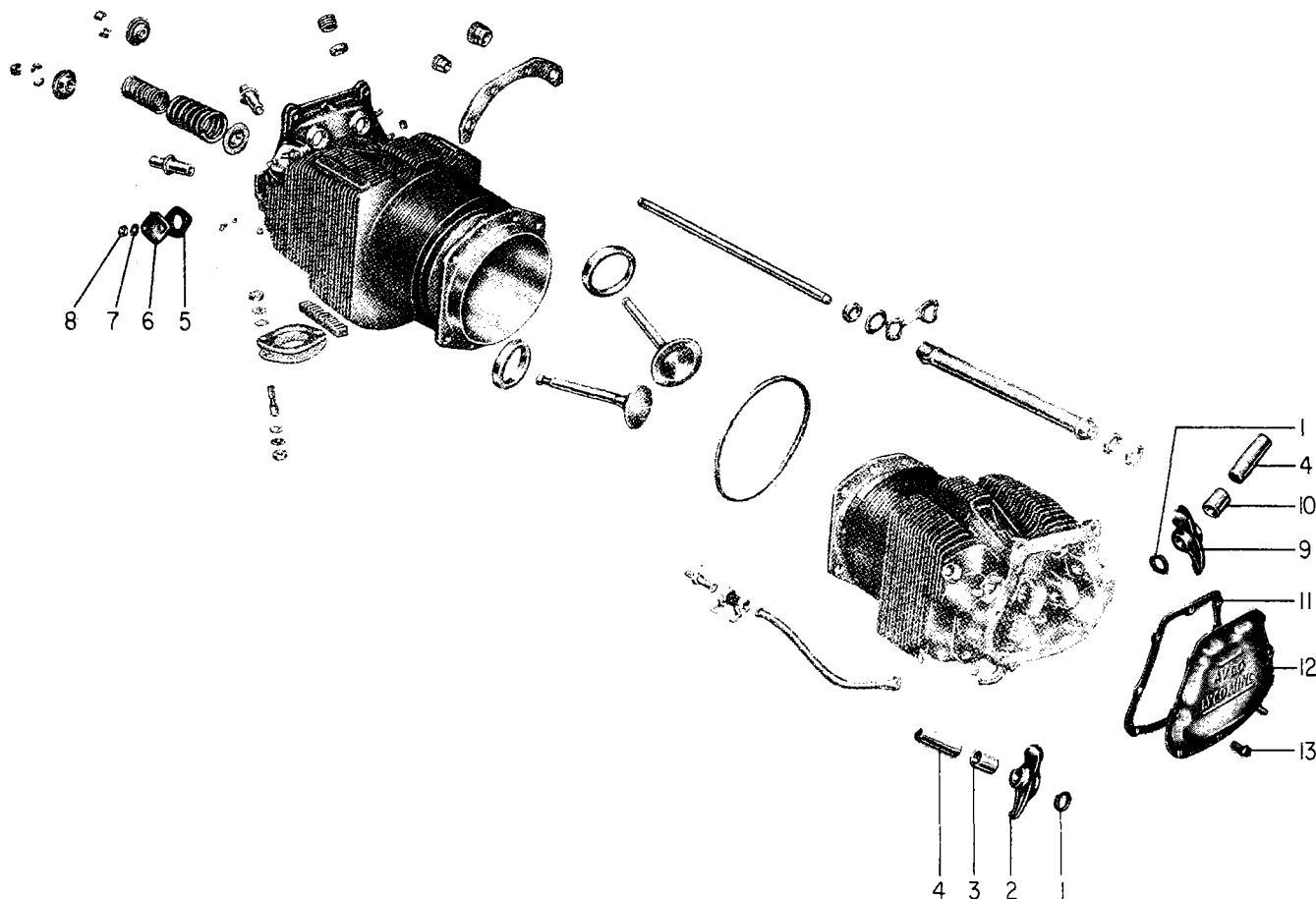


Figure 26. Valve Rocker Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.)
4-7 - PUSH RODS AND SHROUD TUBES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73434						ROD ASSEMBLY, Push		
	73435						ROD ASSEMBLY, Push		
	73436						ROD ASSEMBLY, Push	12	A
2	75775						SHROUD TUBE ASSEMBLY, Push rod	12	A
3	66717						SPRING, Shroud tube	6	A
4	66728						WASHER, 25/32 ID x 1-1/4 OD x 1/32 in. thick	24	A
5	61503						SLEEVE, Shroud tube seal	12	A
6	62922						SEAL, Shroud tube	24	A

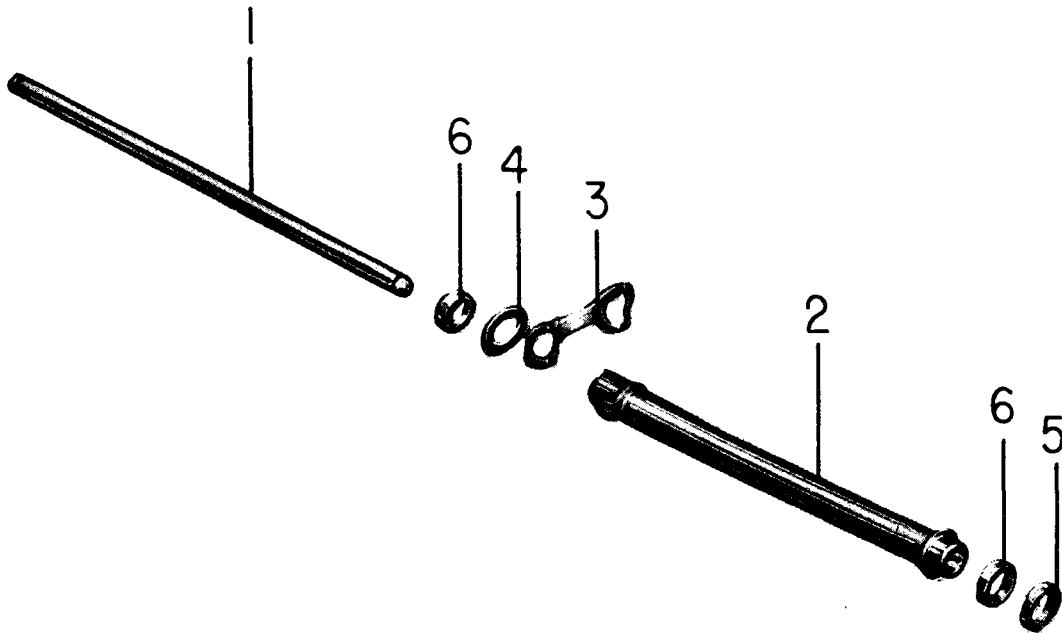


Figure 27. Shroud Tubes and Push Rods

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.)
4-7A - CYLINDER HEAD OIL DRAIN TUBES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	67787						TUBE ASSEMBLY, Cylinder head oil drain	6	A
2	STD-684						NIPPLE, Straight, 3/8 ID hose	6	A
3	STD-1821						HOSE, 3/8 in. dia. x 2-1/2 in. long	6	A
4	STD-1924						CLAMP, Hose, 1/2 to 3/4 ID x 5/8 in. wide	12	A
5	71481						RING, Oil seal, 3/32 dia. section x 4-27/32 ID	6	A
6	69531						PLATE, Cylinder hold down	12	A
7	71133						NUT, Allen head, 1/2-20 NF-3	24	A
8	71134						NUT, Allen head, 3/8-24 NF-3	24	A

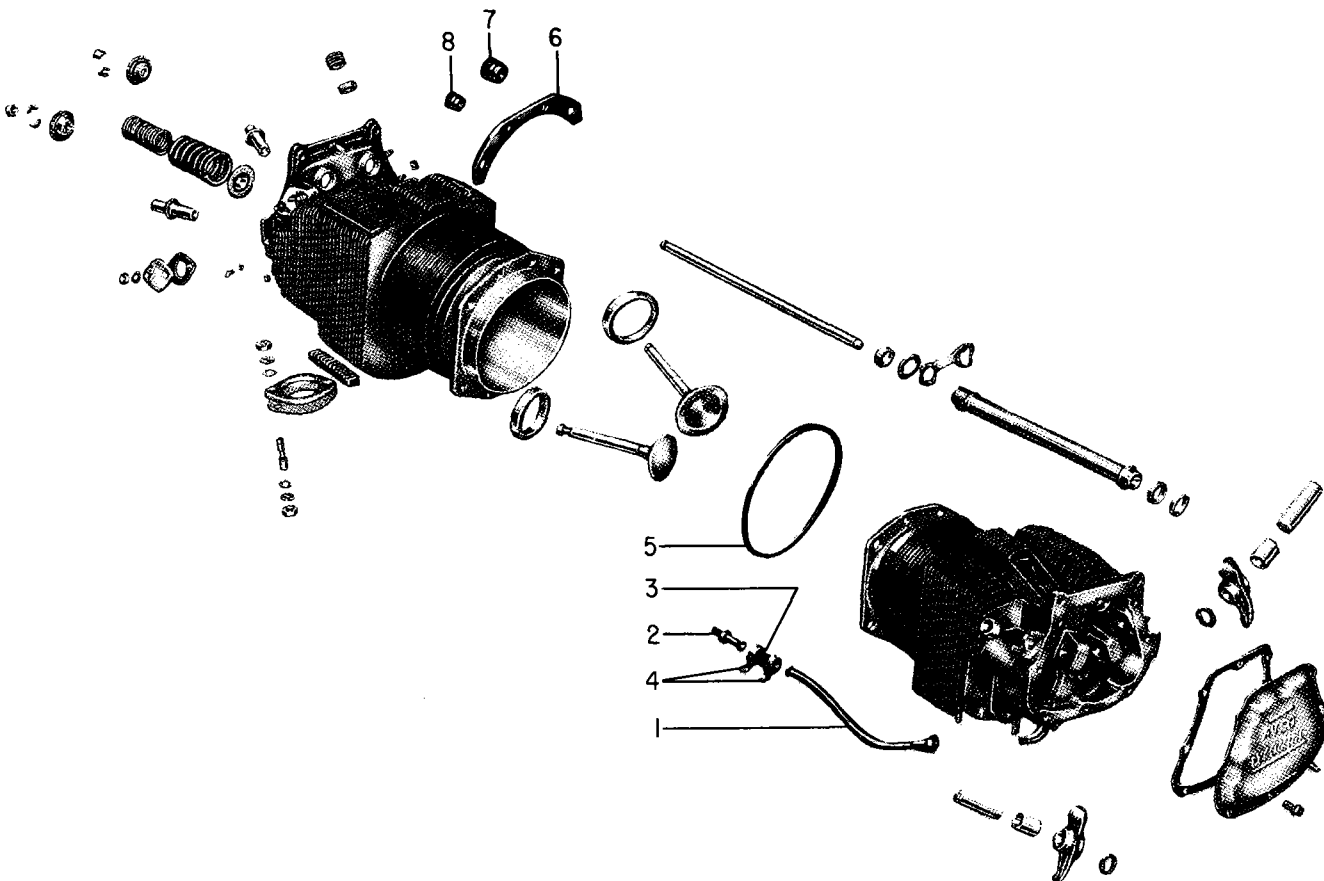


Figure 28. Cylinder Head Oil Drain Tubes

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.)
4-8 - INTAKE AND EXHAUST FLANGES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	60131						GASKET, 2 bolt flange, 1-3/4 in. ID	6	A
2	73346						FLANGE, Intake pipe upper, not illustrated	6	A
3	STD-35						WASHER, Plain, 5/16 in.	12	A
4	STD-475						WASHER, Internal lock, 5/16 in.	12	A
5	STD-37						NUT, Plain, 5/16 in.	12	A
6	67195						FLANGE, Exhaust	6	B

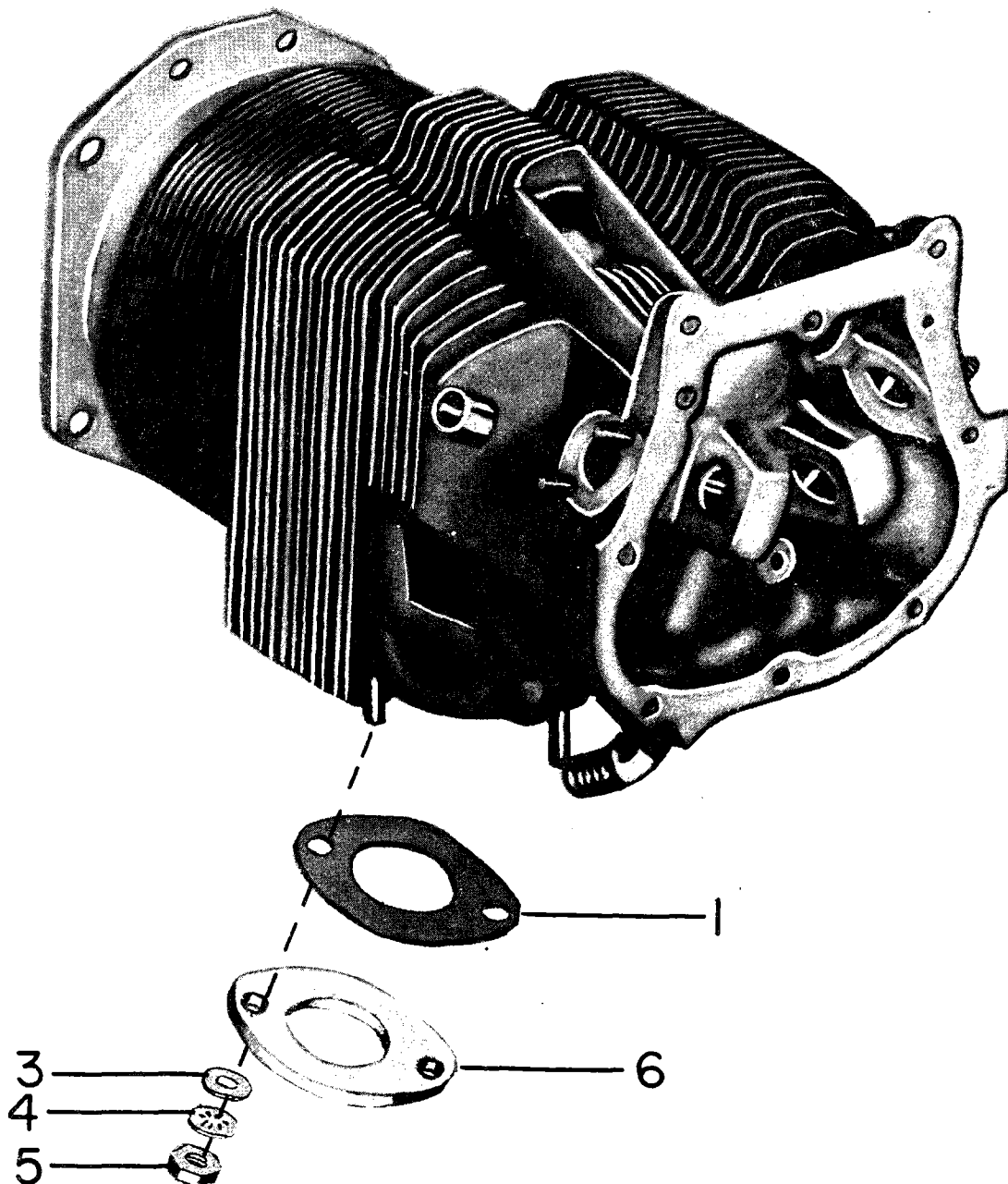


Figure 29. Intake and Exhaust Flanges

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION IV (CONT.) 4-8A - INTERCYLINDER BAFFLE ASSEMBLIES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	69947						BAFFLE ASSEMBLY, Intercylinder	4	A
2	71610						HOOK, Intercylinder baffle retainer	4	A
3	71611						RETAINER, Intercylinder baffle	4	A
4	65614						PLUG, Baffle attaching	4	A
5	STD-1687						WASHER, External teeth #10	4	A
6	STD-1686						SCREW, Fill. hd., #10-32 x 7/16 in. long	4	A
7	71066						CLIP, Rear baffle upper attachment	2	A*
8	71067						CLIP ASSEMBLY, Left rear baffle	1	A*

* - For Beech installations only.

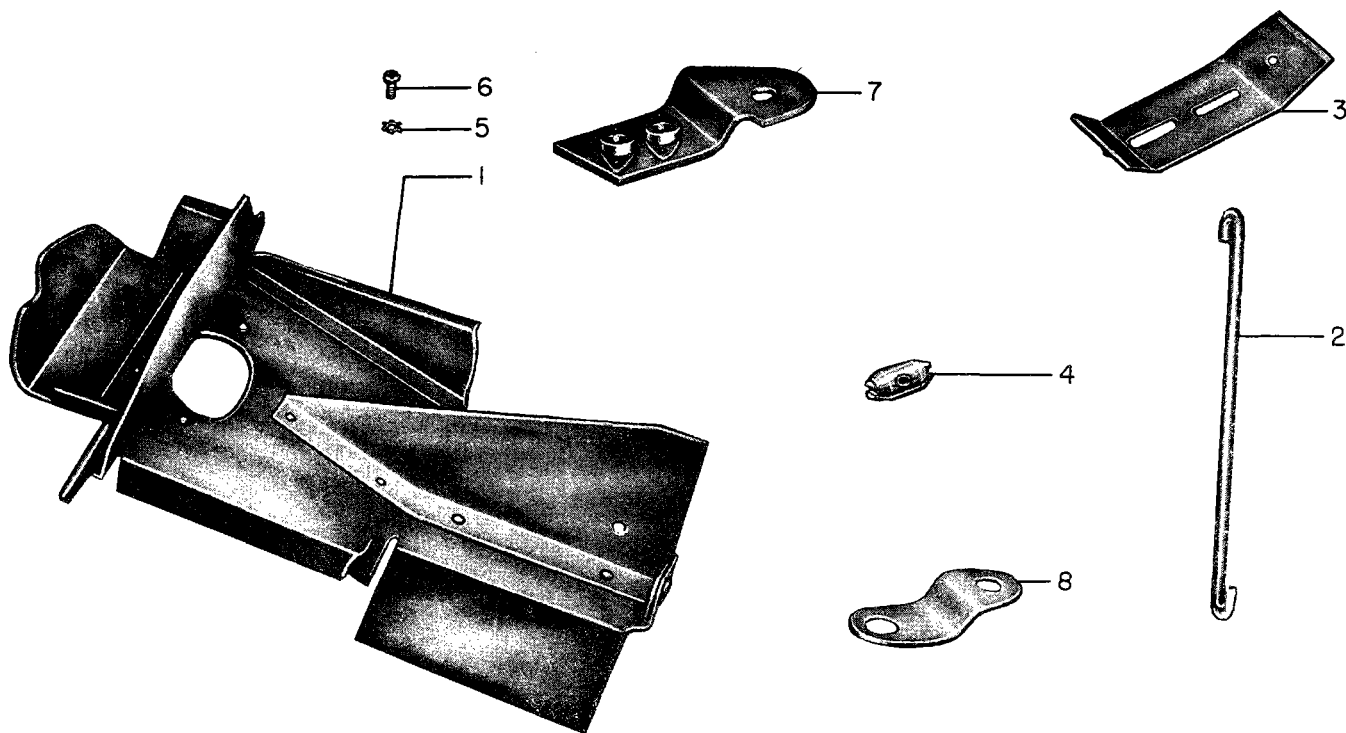


Figure 30. Intercylinder Baffles

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION V

OIL SUMP AND RELATED PARTS

LYCOMING PARTS CATALOG

GSO, IGSO-480-SERIES ENGINES

SECTION V

OIL SUMP AND RELATED PARTS

Part Numbers

Engine Model	Oil Sump Assembly and Oil Scavenge Screen 5-2	Supercharger Outlet Pipe Assembly 5-3	Intake Pipe Assemblies and Attaching Parts 5-4
GSO-480-A1A6	A	A	A
GSO-480-A2A6	A	A	A
GSO-480-B1A6	A	A	A
GSO-480-B1B6	A	A	A
GSO-480-B1C6	A	A	A
GSO-480-B1E6	A	A	A
GSO-480-B1J6	A	A	A
GSO-480-B2D6	A	A	A
IGSO-480-A1A6	A	A	A
IGSO-480-A1B6	A	A	A
IGSO-480-A1C6	A	A	A
IGSO-480-A1E6	A	B	A
IGSO-480-A1F6	A	A	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION V 5-2 - OIL SUMP ASSEMBLY AND OIL SCAVENGE SCREEN

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68172						GASKET, Oil sump	1	A
2	72002						SUMP ASSEMBLY, Oil	1	A
3	69602						CONNECTION, Intake pipe	6	A
4	25-13						STUD, 1/4-20 x 1-5/8 in. long	4	A
5	STD-1173						INSERT, Heli-coil, 1/4-20 x 1/2 in. long	3	A
6	STD-1832						INSERT, Heli-coil, 5/16-24 x 5/8 in. long	2	A
7	STD-111						GASKET, 1.00 ID x 1-1/4 OD x 3/32 in. annular	1	A
8	69335						PLUG, 5/8 in. hex. hd., 1.00-20 Thd.	1	A
9	STD-550						PLUG, Square head, drilled, 1/4 NPT	2	A
10	STD-405						PLUG, Square head, drilled, 1/8 pipe	2	A
11	STD-8						WASHER, Plain, 1/4 in., not illustrated	34	A
12	STD-160						WASHER, Internal lock, 1/4 in., not illustrated	24	A
13	STD-9						NUT, Plain, 1/4-28, not illustrated	10	A
14	STD-1679						BOLT, Hex. hd., 1/4-28 x 1.00 in. long, not illustrated	14	A
15	STD-1230						BOLT, Hex. hd., 1/4-28 x 1-9/32 in. long, not ill. (Oil sump attaching parts)	10	A
16	68192						GASKET, Oil scavenge screen retainer	1	A
17	68198						SCREEN ASSEMBLY, Oil scavenge pump	1	A
18	68191						RETAINER, Oil scavenge screen	1	A
19	67696						SCREEN, Oil scavenge pump	1	A
20	STD-918						SCREW, Drilled head, 1/4-20 x 3/4 in. long (To attach oil scavenge pump screen)	3	A

NOTE

Reference numbers 18 and 19 are detail parts of 68198 assembly and are not procurable alone.

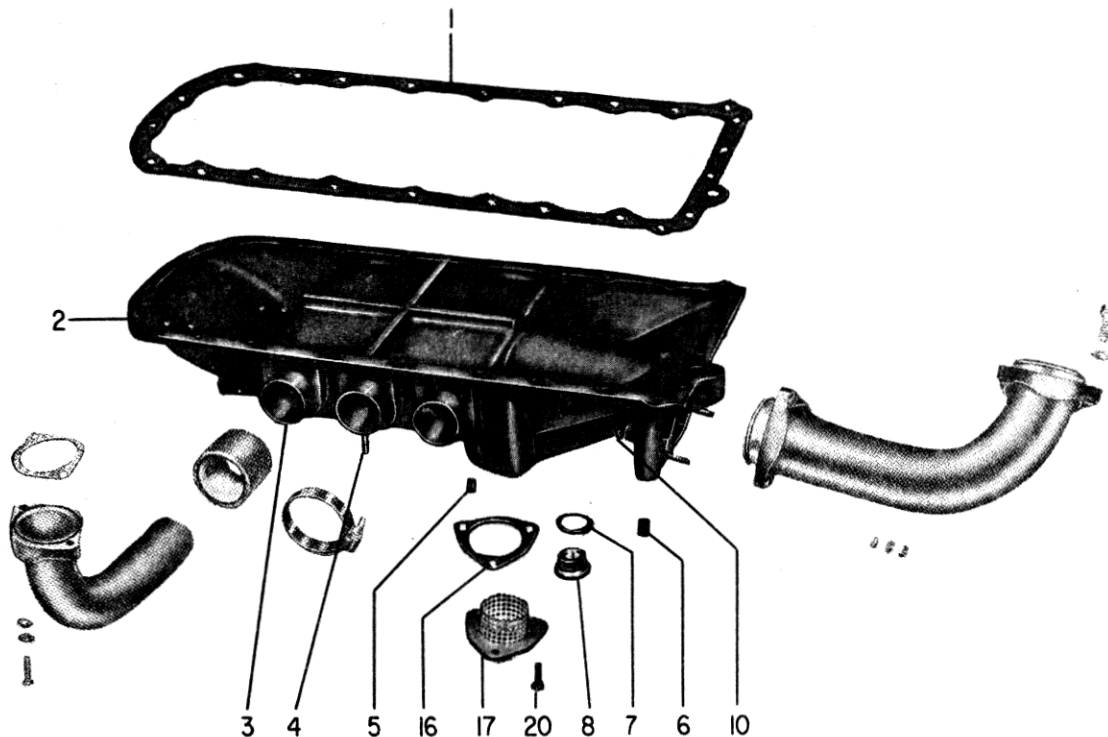


Figure 31. Oil Sump Assembly and Oil Scavenge Screen

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION V (CONT.)
5-3 - SUPERCHARGER OUTLET PIPE ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68193						PIPE, Supercharger outlet	1	A
	75576						PIPE, Supercharger outlet	1	B
2	STD-1753						RING, 2-31/64 ID x 1/8 dia. section	2	A, B
3	68106						FLANGE, Supercharger outlet pipe	2	A, B
4	STD-1230						BOLT, Hex. hd., 1/4-28 x 1-9/32 in. long	3	A, B
5	STD-8						WASHER, Plain, 1/4 in.	9	A, B
6	STD-160						WASHER, Internal lock, 1/4 in.	6	A, B
7	STD-9						NUT, Plain, 1/4-28	6	A, B
							(To attach supercharger outlet pipe flange)		

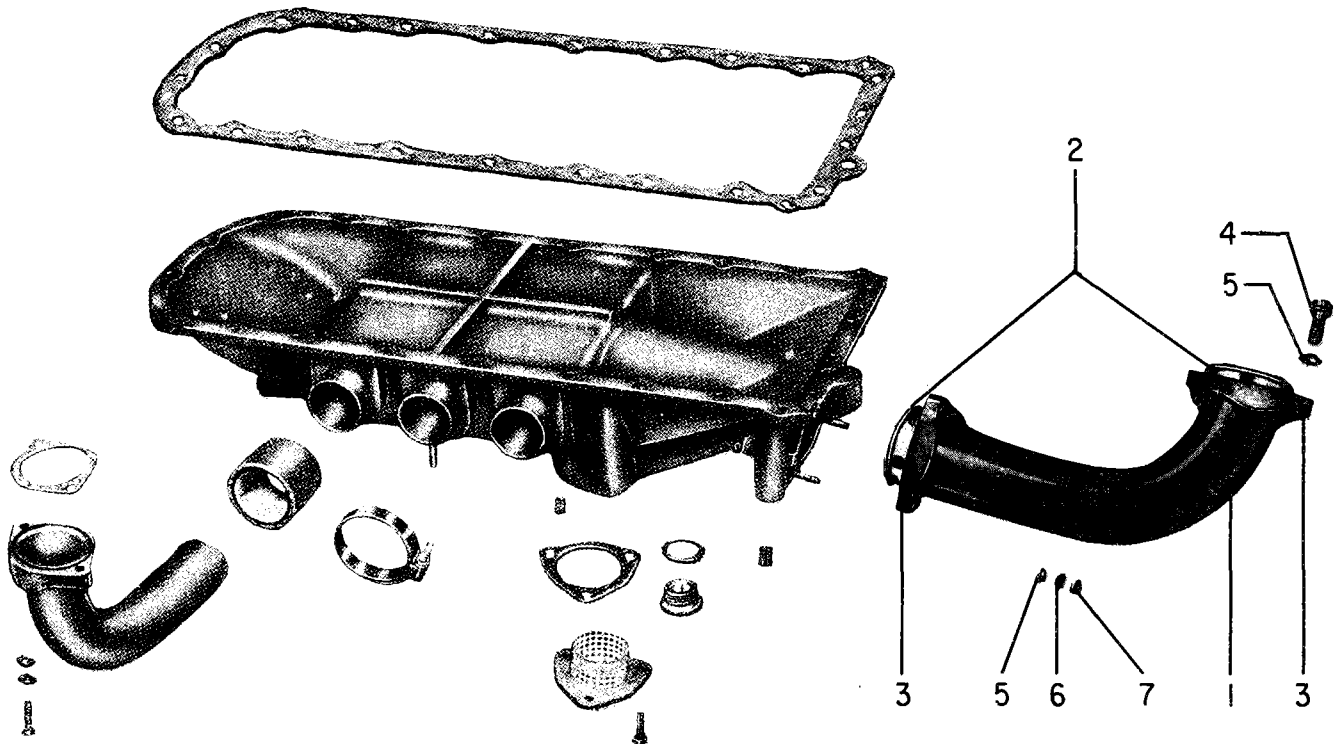


Figure 32. Supercharger Outlet Pipe Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION V (CONT.)
5-4 - INTAKE PIPE ASSEMBLIES AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	60131						GASKET, 2 bolt flange, 1-3/4 in. ID	6	A
2	73346						FLANGE, Intake pipe, upper	6	A
3	69690						PIPE, Intake, cylinders, 1 and 6	2	A
	69692						PIPE, Intake, cylinders, 3 and 4	2	A
	69691						PIPE, Intake, cylinders, 2 and 5	2	A
4	STD-8						WASHER, Plain, 1/4 in.	12	A
5	STD-160						WASHER, Internal lock, 1/4 in.	12	A
6	STD-1215						BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	12	A
7	69603						HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4 in. long	6	A
8	STD-1269						CLAMP, Hose, 1-7/8 to 2-1/4 ID x 9/16 in. wide	12	A

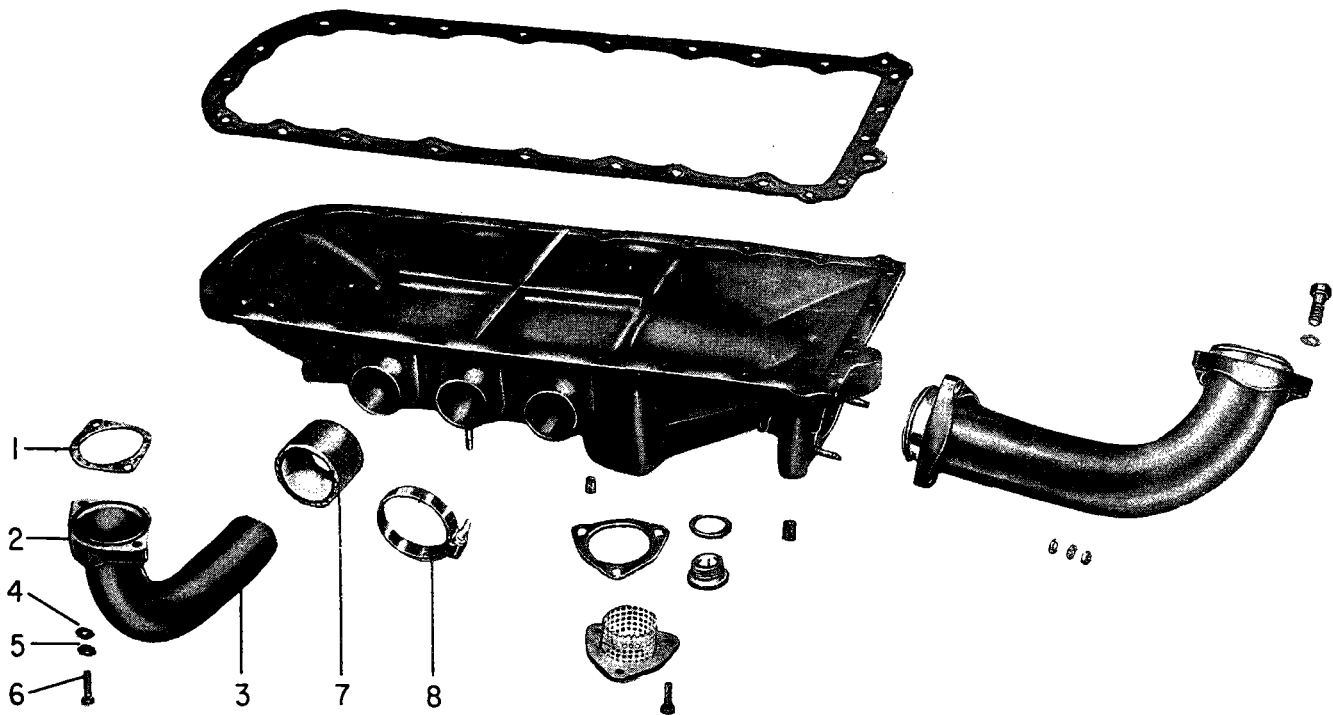


Figure 33. Intake Pipe Assemblies and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION VI

SUPERCHARGER AND INDUCTION SYSTEM

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION VI

SUPERCHARGER AND INDUCTION SYSTEM

Page Numbers

Engine Model	Acc'y. and Super Drives 6-2	Super Hsg. 6-3	Imp. and Shaft Ass'y. 6-4	Super Drive and Adapt. 6-5	Air In. Hsg. 6-6	Carb. 6-7	Prim. System 6-8	Fuel Inj. System 6-9	Fuel Inj. 6-10	Fuel Lines 6-11	Fuel Inj. Rel.Pts. 6-12
GSO-480-A1A6	A	A, B	A	A, B	A, B	A, B, C	A				
GSO-480-A2A6	A	A	A	A	B	C	A				
GSO-480-B1A6	A	A, B	A	A, B, C	A	A, D	A				
GSO-480-B1B6	A	A, B	A	A, B	A	A, B	A				
GSO-480-B1C6	A	A	A	A, B	B	C	A				
GSO-480-B1E6	A	A	A	A	A	A	A				
GSO-480-B1J6	A	A	A	A	A	A	A				
GSO-480-B2D6	A	A, B	A	D, E	D	E	A				
IGSO-480-A1A6	A	A	B	A, C	C			A		A	A
IGSO-480-A1B6	A	A	B	A	C			A		A	A
IGSO-480-A1C6	A	A	B	A, B	E			B		B	B
IGSO-480-A1E6	A	B	B	E	F			C	C		
IGSO-480-A1F6	A	A	B	B	E			B		B	B

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI
6-2 - MAIN ACCESSORY AND SUPERCHARGER DRIVES

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	67638						SHIM, Accessory drive shaft adapter	1	A
2	75026						ADAPTER ASSEMBLY, Accessory drive shaft	1	A
3	STD-1315						INSERT, Heli-coil, 1/4-28 x 1/2 in. long	4	A
4	STD-8						WASHER, Plain, 1/4 in.	8	A
5	68135						NUT, 1/4-28 special	8	A
6	68099						GEAR ASSEMBLY, Supercharger and accessory drive	1	A
7	67630						BUSHING, Supercharger and accessory drive gear	2	A
8	STD-798						DOWEL, 3/32 dia. x 9/32 in. long	2	A
9	75261						SHAFT ASSEMBLY, Accessory drive	1	A
10	67710						BUSHING, Accessory drive shaft	1	A
11	STD-798						DOWEL, 3/32 dia. x 9/32 in. long	1	A
12	69683						TUBE, Accessory drive shaft oil transfer	1	A
13	68830						SPRING, Supercharger drive coupling	5	A
14	67784						GUIDE, Supercharger drive coupling, long	5	A
15	67785						GUIDE, Supercharger drive coupling, short	5	A
16	67186						PLATE, Supercharger drive coupling	1	A
17	67258						LOCKPLATE, Supercharger drive coupling	1	A
18	STD-1459						BOLT, Hex. hd., #10-32 x 17/32 in. long	5	A
19	STD-1006						RING, Oil seal, 7/16 ID x 3/32 dia.	1	A
20	67640						WASHER, Accessory drive shaft, thrust	1	A
21	30311						BEARING, Accessory idler gear	1	A
22	74412						PLATE, Accessory drive shaft adapter	1	A
23	AN501-A416-12						SCREW, Fill. hd., drilled, 1/4-28 x 3/4 in. long	4	A
24	67642						LOCKWASHER, Accessory drive shaft	1	A
25	67641						NUT, Accessory drive shaft	1	A
26	74126						SHAFTGEAR, Intermediate supercharger drive	1	A
27	72548						GEAR, Intermediate supercharger drive	1	A
28	72549						WASHER, Intermediate supercharger drive	1	A
29	67754						WASHER, Lock, intermediate supercharger drive	1	A
30	67797						NUT, Supercharger intermediate drive shaft	1	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

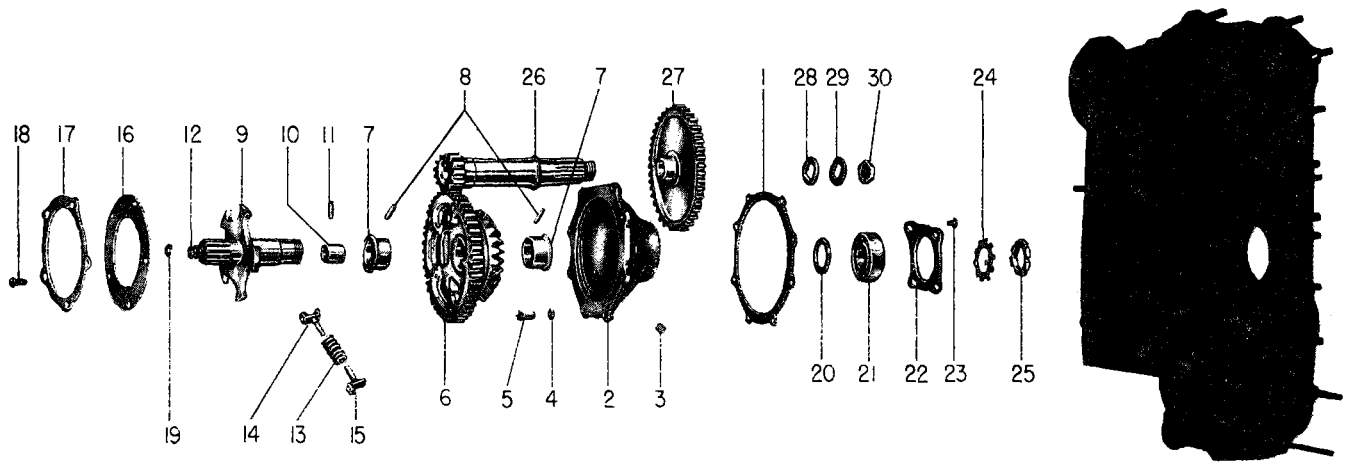


Figure 34. Main Accessory and Supercharger Drives

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.) 6-3 - SUPERCHARGER HOUSING

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	72437						GASKET, Supercharger housing	1	A, B
2	70315						HOUSING ASSEMBLY, Supercharger	1	A
	73939						HOUSING ASSEMBLY, Supercharger	1	B
3	25-10						STUD, 1/4-20 x 1-1/4 in. long	9	A
	25-10						STUD, 1/4-20 x 1-1/4 in. long	11	B
4	25-11						STUD, 1/4-20 x 1-3/8 in. long	2	A, B
5	25-13						STUD, 1/4-20 x 1-5/8 in. long	2	A
6	68146						STUD, Supercharger housing	6	A, B
7	1102						PLUG, Allen, 1/8-27 NPT	1	A, B
8	STD-1339						PLUG, Allen, 1/16-27 Pipe	1	A, B
9	68094						DIFFUSER, Supercharger	1	A, B
10	STD-8						WASHER, Plain, 1/4 in.	11	A, B
11	STD-160						WASHER, Internal lock, 1/4 in.	11	A, B
12	STD-9						NUT, Plain, 1/4-28	11	A, B

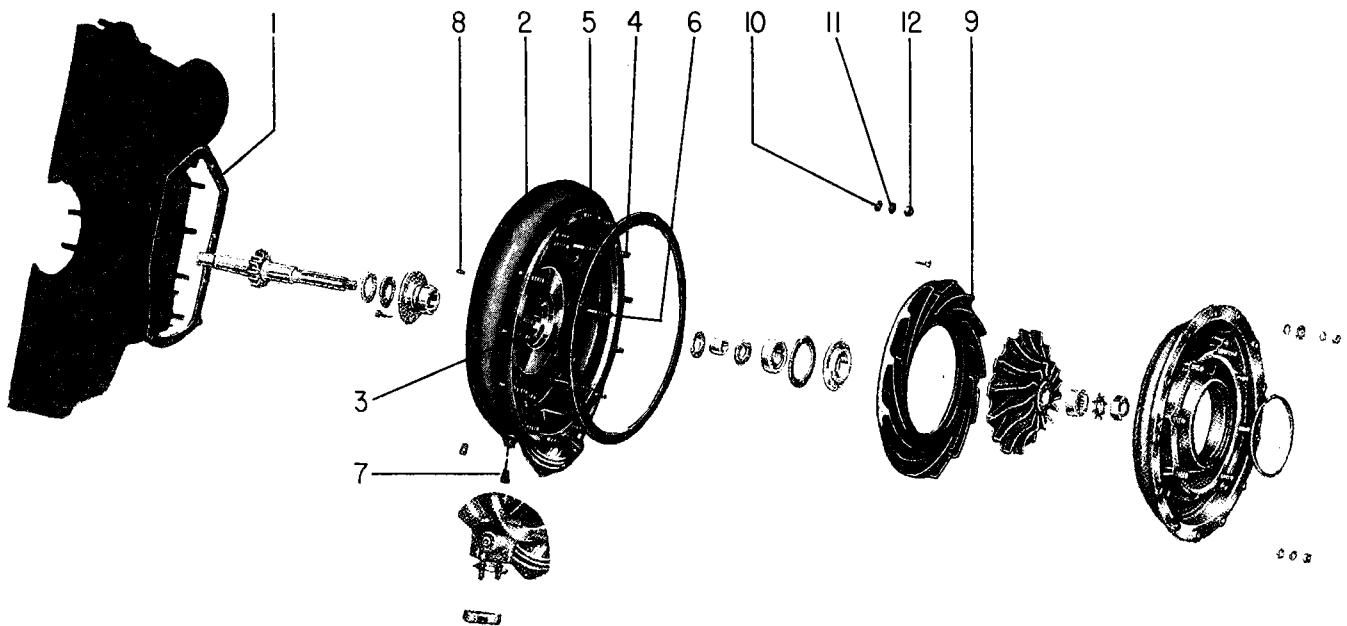


Figure 35. Supercharger Housing

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-4 - IMPELLER AND SHAFT ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	74535						IMPELLER AND SHAFT ASSEMBLY, Supercharger	1	A, B
2	69080						SPACER, Supercharger drive shaft gear	1	A, B
3	70326						SHAFTGEAR, Supercharger drive	1	A, B
4	71761						WASHER, Supercharger drive shaft seal	1	A, B
5	71759						SPACER, Supercharger impeller		
	71759-1						SPACER, Supercharger impeller		
	71759-2						SPACER, Supercharger impeller (Note: Select one only)		
6	69883						IMPELLER, Supercharger	1	A, B
7	69895						BUSHING, Supercharger impeller, front	1	A, B
8	69896						BUSHING, Supercharger impeller, rear	1	A, B
9	69897						RIVET, Supercharger impeller	6	A, B
10	74536						SPACER, Supercharger impeller nut	1	A, B
11	74529						LOCKWASHER, Supercharger impeller nut	1	A, B
12	71430						NUT, Lock, supercharger impeller	1	A, B
13	1102						PLUG, Allen, 1/8-27 NPT	1	A
14	69684						WASHER, Supercharger thrust	1	A, B

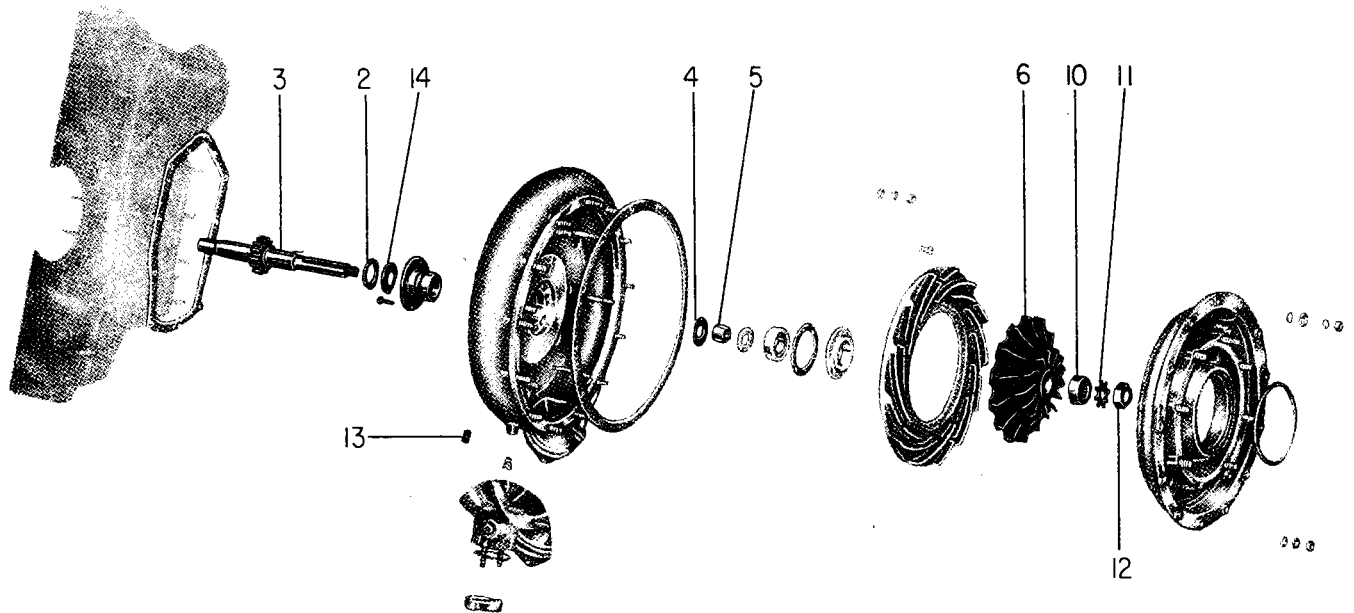


Figure 36. Impeller and Shaft Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-5 - SUPERCHARGER SHAFT BEARING AND AIR INLET ADAPTER

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	69898						BEARING, Supercharger shaft	1	A, B, C, D, E
2	STD-1703						SCREW, Hex. hd., drilled #10-24 x 11/16 in. long	4	A, B, C, D, E
3	75968						SEAL, Supercharger drive shaft	1	A, B, C, D, E
4	67678						GASKET, Supercharger oil seal retainer	1	A, B, C, D, E
5	71758						RETAINER, Supercharger drive shaft oil seal	1	A, B, C, D, E
6	STD-375						SCREW, Fill. hd., drilled #10-24 x 5/8 in. long	6	A, B, C, D, E
7	68127						GASKET, Supercharger housing	AR	A, B, C, D, E
8	68182						ADAPTER ASSEMBLY, Supercharger air inlet	1	A
	73968						ADAPTER ASSEMBLY, Supercharger air inlet	1	B
	71962						ADAPTER ASSEMBLY, Supercharger air inlet	1	C
	71704						ADAPTER ASSEMBLY, Supercharger air inlet	1	D
	72723						ADAPTER ASSEMBLY, Supercharger air inlet	1	E
9	25-10						STUD, 1/4-20 x 1-1/4 in. long	6	A, C, D
	25-10						STUD, 1/4-20 x 1-1/4 in. long	7	B
10	25-13						STUD, 1/4-20 x 1-5/8 in. long	1	A, B, C, D, E
11	25-12						STUD, 1/4-20 x 1-1/2 in. long	3	E
12	25-11						STUD, 1/4-20 x 1-3/8 in. long	5	E
13	STD-8						WASHER, Plain, 1/4 in.	13	A, B, C, D, E
14	STD-160						WASHER, Internal lock, 1/4 in.	13	A, B, C, D, E
15	STD-9						NUT, Plain, 1/4-28	13	A, B, C, D, E
16	STD-1733						RING, Oil seal, 1/4 ID x 1/16 in. dia.	6	A, B, C, D, E
17	68018						WASHER, .266 - .268 ID x 11/16 OD x 5/32 in. thick	6	A, B, C, D, E
18	STD-160						WASHER, Internal lock	6	A, B, C, D, E
19	STD-9						NUT, Plain, 1/4-28	6	A, B, C, D, E
20	AN124001						SEAL, 3-7/8 ID x 4-1/8 OD x .135 - .143 in. section	1	A, B, C, D, E

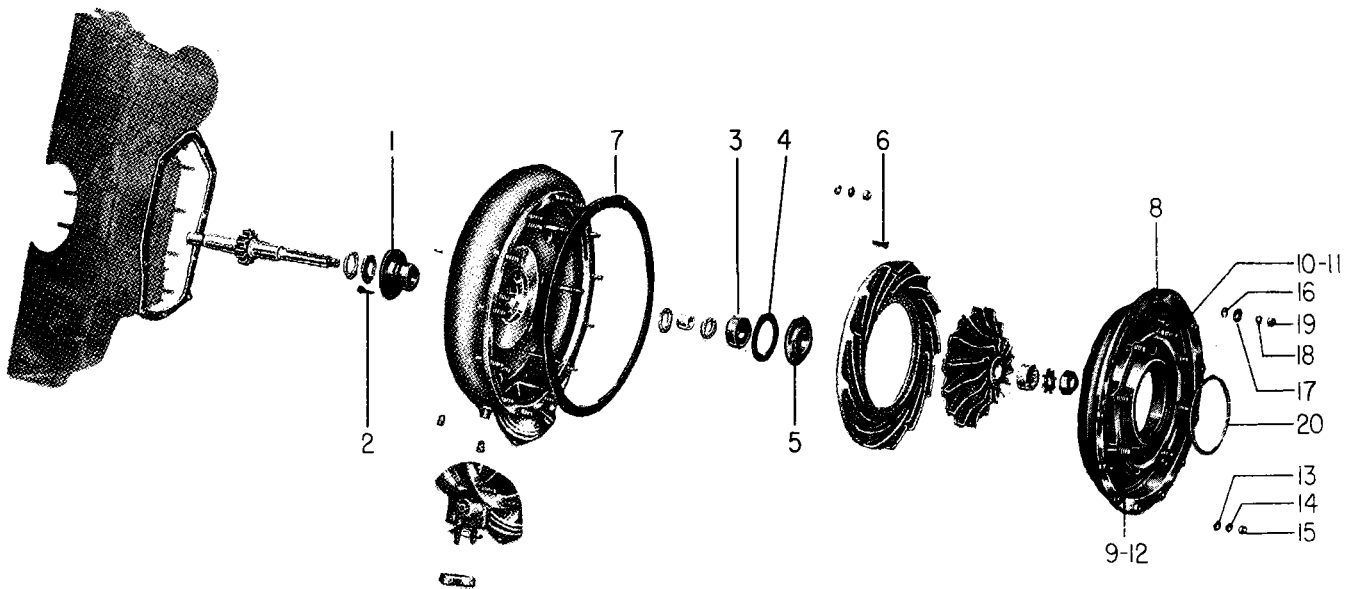


Figure 37. Supercharger Shaft Bearing and Air Inlet Adapter

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-6 - SUPERCHARGER AIR INLET HOUSING ASSEMBLY

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	71158						HOUSING ASSEMBLY, Supercharger air inlet	1	A, -B1B3
1A	71864						HOUSING ASSEMBLY, Supercharger air inlet	1	B
1B	74604						HOUSING AND VALVE ASSEMBLY, Supercharger air inlet	1	C
1C	71917						HOUSING ASSEMBLY, Supercharger air inlet	1	D
1D	74607						HOUSING AND VALVE ASSEMBLY, Supercharger air inlet	1	E
2	75568*						HOUSING ASSEMBLY, Supercharger air inlet	1	F
3	31D-14						STUD, 5/16-18 x 1-3/4 in. long, drilled	4	A, B, C, D, E, -B1B3
	31-14						STUD, 5/16-18 x 1-3/4 in. long	4	F
4	72014						BUSHING, 3/8 in. ID x 5/8 in. OD x 5/8 in. long	2	C, E
5	STD-1849						INSERT, Heli-coil, 3/4-16 NF3 x 3/4 in. long	1	C, E
6	STD-1353						INSERT, Heli-coil, #10-24 x 3/8 in. long	3	C, E
7	MS124776						INSERT, Heli-coil, 1/4-28 x 5/8 in. long	2	F
8	72390						NOZZLE, Fuel injector, auto rich	1	C, E
9	72008						SHAFT, Throttle valve	1	C, E
10	72009						VALVE, Throttle	1	C, E
11	72281						SCREW, Fill. hd., #8-32 x 3/8 in. long	2	C, E
12	AN935-8L						LOCKWASHER, #8	2	C, E
13	72015						STOP, Throttle	1	C, E
14	STD-1855						GROOVE PIN, 3/32 in. dia. x 5/8 in. long	1	C, E
15	72018						LEVER, Throttle	1	C, E
16	STD-82						SCREW, Fill. hd., drilled, #10-24 x 1/2 in. long	1	C, E
17	STD-1896						SCREW, Fill. hd., drilled hd., #10-24 x 7/8 in. long	1	C, E
18	STD-1756						WASHER, 13/64 ID x 3/4 OD x 23/64 in. thick	1	C, E
19	74599						PLATE, Throttle lever stop	1	C, E
20	72017						SPRING, Throttle stop adjusting	1	C, E
21	72016						SCREW, Throttle stop adjusting	1	C, E
22	STD-8						WASHER, Plain, 1/4 in.	7	All Models
23	STD-160						WASHER, Internal lock, 1/4 in.	7	All Models
24	STD-9						NUT, Plain, 1/4-28	7	All Models
25	71253						ADAPTER ASSEMBLY, Fuel drain valve	1	C, D, E, -B1B3

* - See figure 42, page 6-10 for 75568 air inlet housing.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

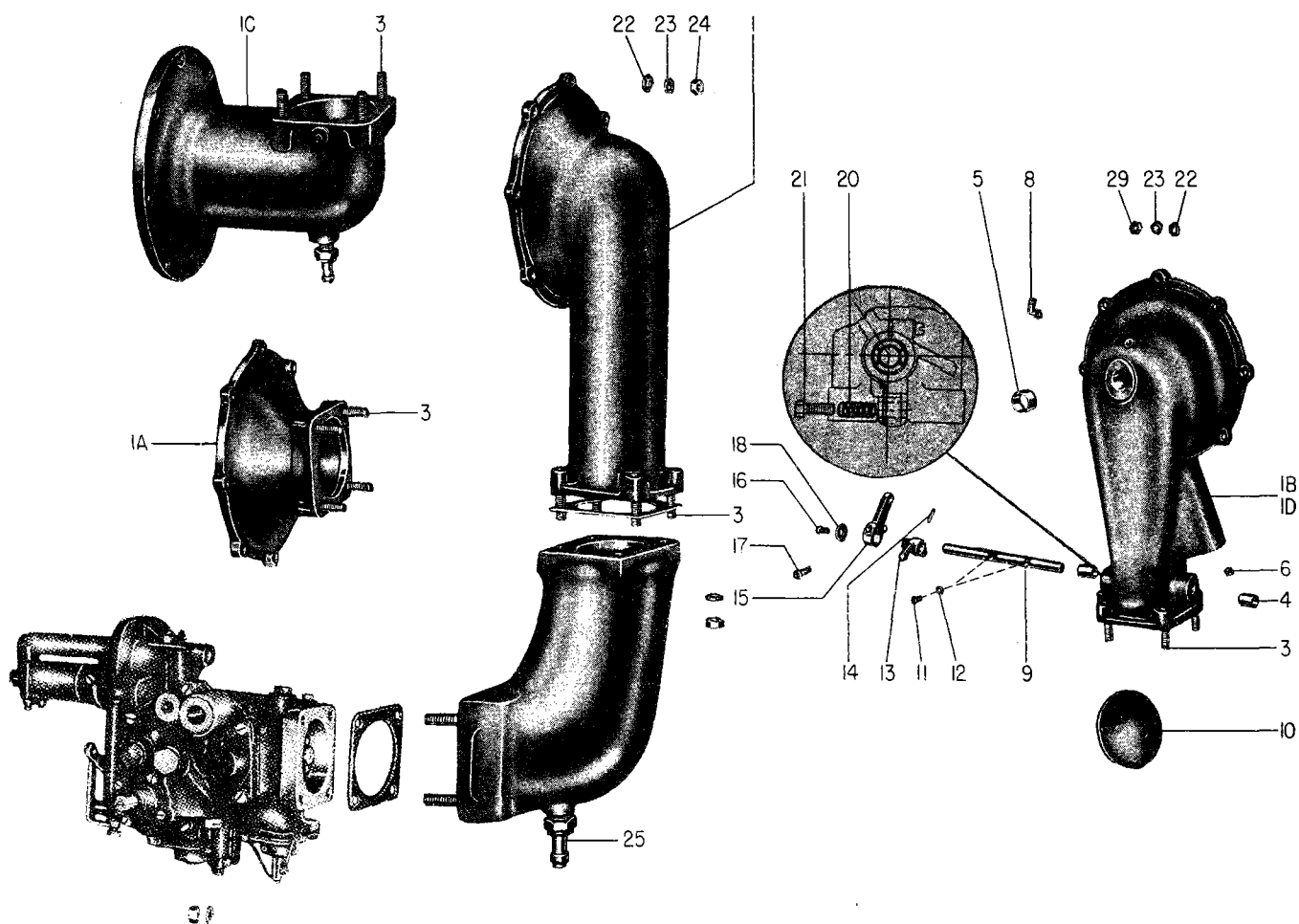


Figure 38. Supercharger Air Inlet Housing

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-7 - CARBURETOR AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	68129						GASKET, Carburetor	1	A, C, D, E, -B1B3
	68129						GASKET, Carburetor	2	B
2	71607						CARBURETOR, Bendix P/N 391663-7	1	A
	70424						CARBURETOR, Bendix P/N 391624-20	1	B
	71529						CARBURETOR, Bendix P/N 391677-6	1	C
	71880						CARBURETOR, Bendix P/N 391714-4	1	D
	71705						CARBURETOR, Bendix P/N 391750-4	1	E
	LW-13573						CARBURETOR, Bendix P/N 2524643-1	1	-B1B3
3	STD-35						WASHER, Plain, 5/16 in.	4	All Models
4	STD-2						NUT, Slotted, 5/16-24	4	All Models
5	71554						ELBOW ASSEMBLY, Carburetor adapter	1	B, -B1B3
6	31D-15						STUD, Drilled, 5/16-18 x 1-7/8 in. long	4	B, -B1B3
7	STD-35						WASHER, Plain, 5/16 in. (elbow attachment)	4	B, -B1B3
8	STD-2						NUT, Slotted, 5/16-24 (elbow attachment)	4	B, -B1B3

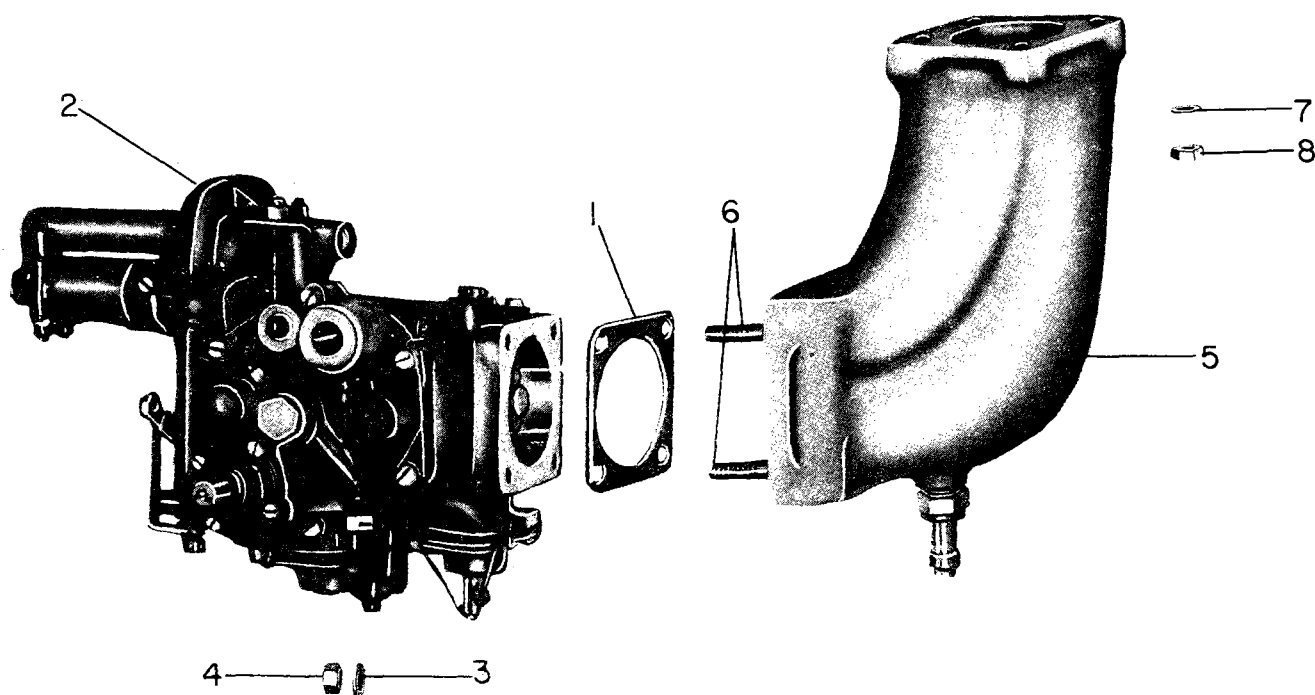


Figure 39. Carburetor and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI.(CONT.) 6-8 - PRIMING SYSTEM

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	61581-15						TUBE ASSEMBLY, Primer, 20-1/4 in. long cyl. 1 and 6	2	A
2	61581-16						TUBE ASSEMBLY, Primer, 22-1/2 in. long cyl. 2 and 5	2	A
3	61581-14						TUBE ASSEMBLY, Primer, 19-3/8 in. long cyl. 3 and 4	2	A
4	71559						BLOCK, Primer line, distributor	1	A
5	STD-8						WASHER, Plain, 1/4 in.	1	A
6	STD-160						WASHER, Shakeproof lock, 1/4 in.	1	A
7	STD-9						NUT, Plain, 1/4-28	1	A
8	STD-148						NIPPLE, Union, (1/8 tube)	6	A
9	74410						CLAMP, 1-3/4 ID, with 7/16 dia. off-set	12	A
10	74537						SUPPORT BLOCK, Primer line, not illustrated	12	A
11	AN365-632C						NUT, Self-locking, #6-32	12	A
12	STD-553						SCREW, Round head, #6-32 x 1/2 in. long	12	A
13	74225						NIPPLE ASSEMBLY, Primer	6	A

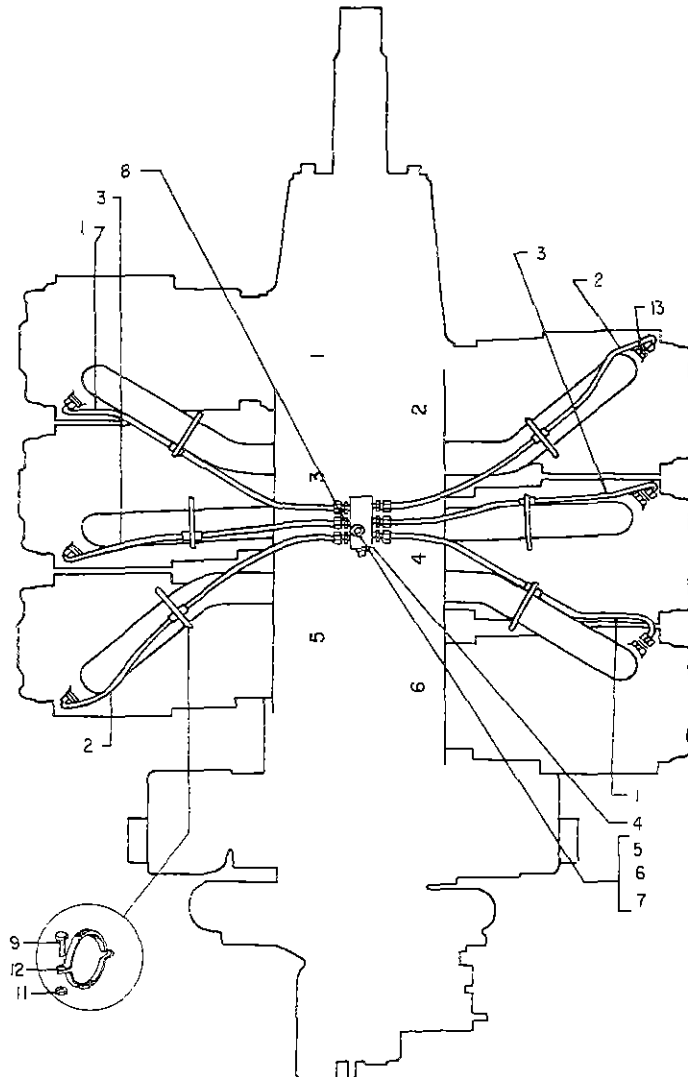


Figure 40. Priming System

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-9 - FUEL INJECTOR AND SOLENOID ASSEMBLY
AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	69828						GASKET, Fuel injector, not illustrated	1	A, B
2	73032						GASKET, Air inlet, not illustrated	1	C
3	73229						PUMP ASSEMBLY, Fuel injector (Simmonds #570)	1	A, B
4	73909						FUEL INJECTOR, Bendix (2524014-6) Model RS-10FB1	1	C* See Note
5	72376						ELBOW, 1/4 tubing, adjustable 90°	2	A, B
6	72377						ELBOW, 19/64 tubing, adjustable 90°	1	A, B
7	73119						ELBOW, 3/16 tubing, adjustable	1	A, B
8	STD-35						WASHER, Plain, 5/16 in.	3	A, B
9	STD-475						WASHER, Internal lock, 5/16 in.	3	A, B
10	STD-37						NUT, Plain, 5/16-24	3	A, B
	STD-35						WASHER, Plain, 5/16 in.	4	C
	STD-475						WASHER, Internal lock, 5/16 in.	4	C
	STD-37						NUT, Plain, 5/16-24	4	C
11	71363						GASKET, Fuel injector sensing element	1	A, B
12	STD-28						WASHER, #10, plain	3	A, B
13	STD-1896						SCREW, Drilled, Fill. hd., #10-24 x 7/8 in. long	3	A, B
14	AN123029						GASKET, .750 to .765 ID x 3/32 in. annular	1	A, B
15	AN-822-4						ELBOW, 1/4 flared tube and 1/8 pipe Thd. 90°	1	A, B
16	72021						NOZZLE ASSEMBLY, Fuel injector	1	A, B
17	72617						SOLENOID ASSEMBLY, Fuel injector	1	A
18	73911						SOLENOID ASSEMBLY, Fuel injector	1	B
19	72615						SOLENOID VALVE, Fuel injector idle-cut-off	1	A, B
20	72614						BRACKET, Idle-cut-off solenoid valve	1	A, B
21	AN825-4						TEE, 1/4 flared tube and 1/8 pipe Thd., on side	2	A, B
22	AN3-14A						BOLT, Hex. hd., #10-32 NF-3	2	A, B
23	STD-28						WASHER, Plain #10	2	A, B
24	STD-251						WASHER, Internal teeth, #10	2	A, B
25	STD-63						NUT, Plain, #10-32	2	A, B

* - See figure 47, page 6-10 for Bendix fuel injector.

NOTE

Follow call-outs for Bendix fuel injection on page 6-10.

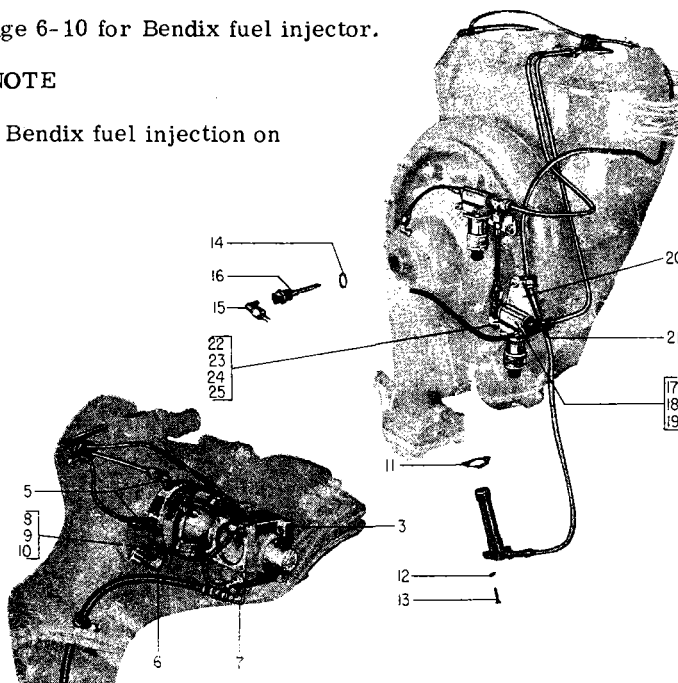


Figure 41. Fuel Injector, Solenoid, and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-10 - BENDIX FUEL INJECTOR,
DETAIL AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73612						GASKET, Injection nozzle	1	C
2	73945						NOZZLE ASSEMBLY, Fuel injection, not illustrated	1	C
3	73908						NOZZLE, Injection	1	C
4	73944						ELBOW, 1/4 tubing, adjustable 45°	1	C
5	72377						ELBOW, 3/8 tubing, adjustable 90°	1	C
6	STD-8						WASHER, Plain, 1/4 in.	2	C
7	STD-160						WASHER, Internal lock, 1/4 in.	2	C
8	STD-1879						BOLT, Hex. hd. , 1/4-28 x 2-1/8 in. long	2	C
9	74069						BRACKET, Flowmeter	1	C
10	74133						MODULATOR ASSEMBLY, Flowmeter, not illustrated	1	C
11	74072						MODULATOR, Flowmeter	1	C
12	74070						ELBOW, 3/8 tubing, adjustable 45°	1	C
13	72377						ELBOW, 3/8 tubing, adjustable 90°	1	C
14	STD-82						SCREW, Fill. hd. , drilled, #10-24 x 1/2 in. long	4	C
15	73952						HOSE, Injector to flowmeter, fuel outlet	1	C
16	73971						CLIP, Cushion type, 1/2 in. ID, .26 dia. hole, not ill	1	C
17	74458						HOSE, Filter to injector, servo return	1	C
18	73751						CLIP, Cushion type, 1/8 ID for 1/4 in. dia. screw, not ill	1	C
19	74639						FILTER, Fuel	1	C
20	74640						BRACKET, Fuel filter, not illustrated	1	C
21	STD-860						SCREW, Fill. hd. , #10-32 x 5/8 in. long	1	C
22	STD-425						WASHER, Plain, #10	1	C
23	STD-670						NUT, Self-locking, #10-32	1	C
24	72388						HOSE ASSEMBLY, Nozzle to filter	1	C
25	74071						HOSE, Flowmeter to nozzle	1	C
26	74053						STRUT, Fuel injector, support, not illustrated	1	C
27	75570						SUPPORT, Fuel injector, upper, not illustrated	1	C
28	74079						SUPPORT, Fuel injector, lower, not illustrated	1	C
29	74055						BRACKET, Fuel injector	1	C
30	STD-1893						SCREW, Hex. hd. , 5/16-24 x 7/8 in. long	5	C
31	STD-674						NUT, Self-locking, 5/16-24 x .358 in. thick	5	C
32	74056						GASKET, Fuel injector	1	C
33	73909						FUEL INJECTOR, Bendix (2524014-6) model RS-10FB1	1	C
34	75568						HOUSING ASSEMBLY, Supercharger air inlet	1	C

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

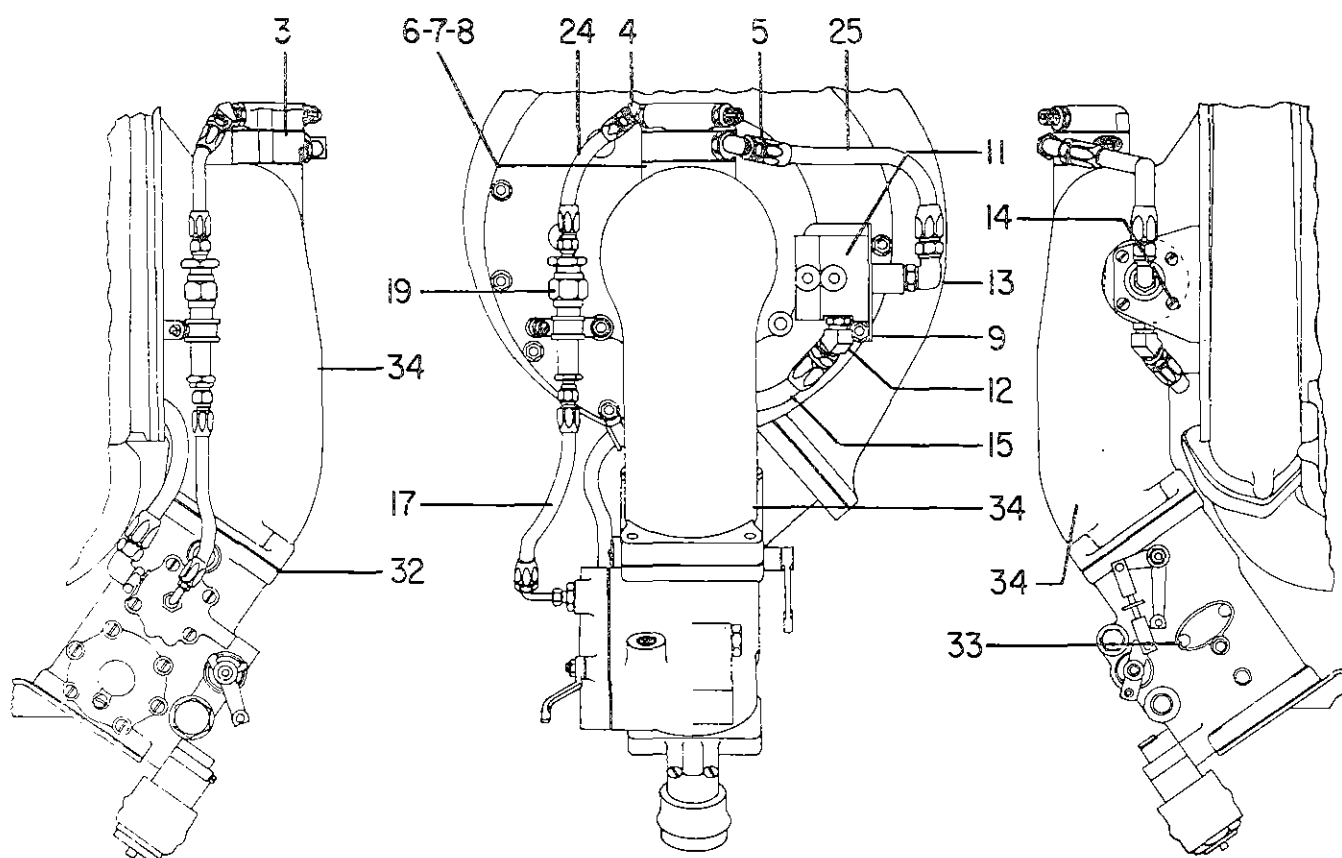


Figure 42. Bendix Fuel Injector and Attaching Lines

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.) 6-11 - FUEL LINES AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	72148						TUBING ASSEMBLY, Fuel outlet to tee	1	A
	73915						TUBING ASSEMBLY, Fuel outlet to tee	1	B
2	72147						TUBING ASSEMBLY, Fuel return to tee	1	A
	73914						TUBING ASSEMBLY, Fuel return to tee	1	B
3	72162						CLIP, Support line, 1/2 in. dia. dual	1	A
	72163						CLIP, Support line, 1/2 in. dia. dual	1	B
4	72164						SPACER, Line support clip	1	A
5	72165						BUSHING, Line support clip	2	B
6	STD-692						SCREW, Rd. hd. slotted, #10-32 x 1/2 in. long	1	A, B
7	STD-28						WASHER, Plain, #10	1	A, B
8	STD-251						WASHER, Internal lock #10	1	A, B
9	STD-63						NUT, Plain, #10-32	1	A, B
10	72162						CLIP, Support line	1	A, B
11	72164						SPACER, Line support clip (3 lines)	1	A, B
12	STD-29						SCREW, Rd. hd. slotted, #10-32 x 3/8 in. long	1	A, B
13	STD-28						WASHER, Plain, #10	1	A, B
14	STD-251						WASHER, Internal lock #10	1	A, B
15	STD-63						NUT, Plain, #10-32	1	A, B
16	72387						HOSE ASSEMBLY, Tee to injector nozzle	1	A, B

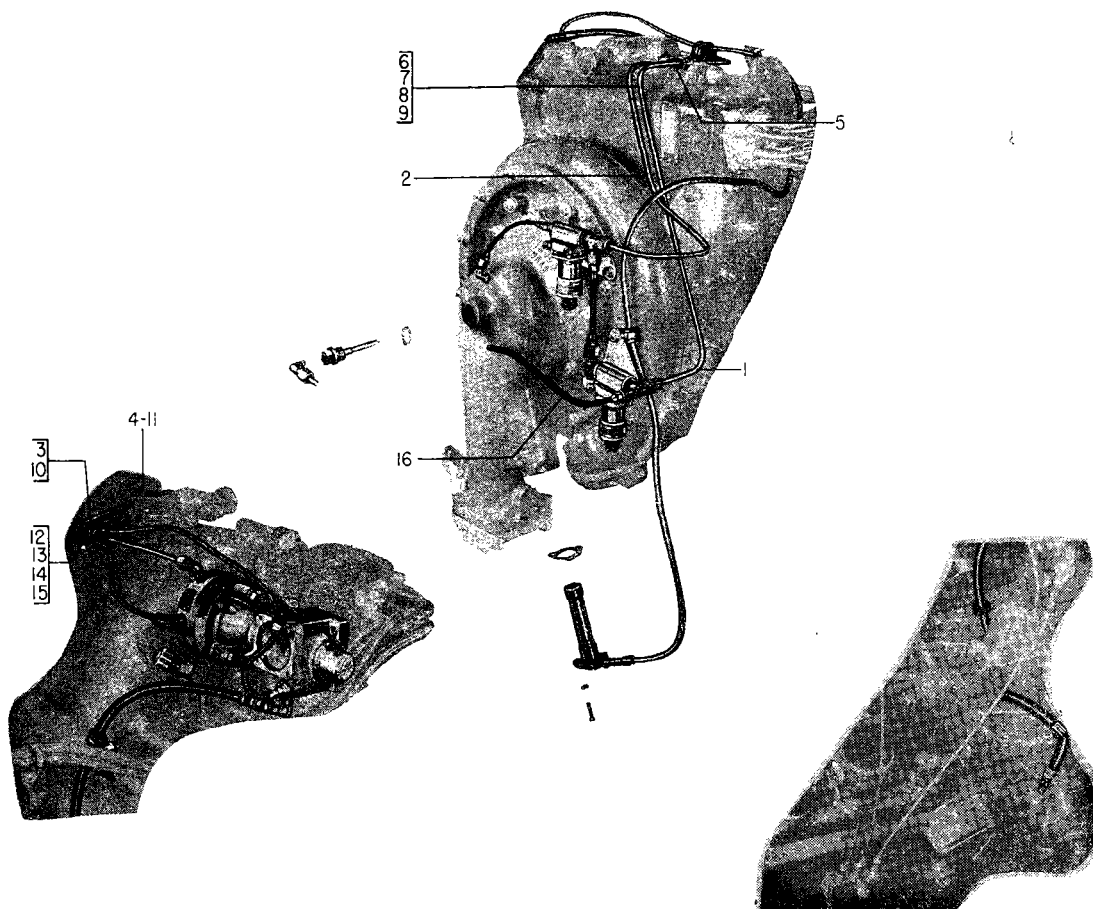


Figure 43. Fuel Lines and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VI (CONT.)
6-12 - FUEL INJECTOR AND RELATED PARTS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	AN6270-3-23-1/2	HOSE ASSEMBLY, 3/16 ID hose x 23-1/2 in. long	1	A, B
2	AN823-3	ELBOW, 3/16 flared and 1/8 pipe Thd. 45°	1	A, B
3	72201	GROMMET, Fuel injector pressure sensing line	1	A, B
4	72036	CLIP, 3/4 ID for 3/16 dia. screw, cushion type	1	A, B
5	72178	CLIP, 7/16 ID for 3/16 dia. screw, cushion type	1	A, B
6	STD-29	SCREW, Rd. hd. slotted, #10-32 x 3/8 in. long	1	A, B
7	STD-28	WASHER, Plain, #10	1	A, B
8	STD-251	WASHER, Internal lock, #10	1	A, B
9	STD-63	NUT, Plain, #10-32	1	A, B
10	68604	CLIP, 5/16 ID for 1/4 dia. screw, cushion type	2	A
	68604	CLIP, 5/16 ID for 1/4 dia. screw, cushion type	3	B
11	71925	OIL FILTER, Fuel injector, not ill.	1	A, B
12	STD-1654	RING, Oil seal, 3/4 ID x 3/32 in. dia. , not ill.	1	A, B
13	STD-1002	RING, Oil seal, 5/16 ID x 1/16 in. dia. , not ill.	1	A, B
14	72616	SOLENOID ASSEMBLY, Fuel injector, auto-rich	1	A
	73910	SOLENOID ASSEMBLY, Fuel injector, auto-rich	1	B
15	72613	BRACKET, Fuel injector solenoid valve	1	A, B
16	72615	SOLENOID VALVE, Fuel injector	1	A, B
17	72131	TEE ASSEMBLY, Flared tube	1	A, B
18	AN816-3	NIPPLE, 3/16 flared x 1/8 pipe Thd.	1	A, B
19	AN3-14A	BOLT, Hex. hd. , #10-32 NF-3 Thd.	2	A, B
20	STD-251	WASHER, Internal lock, #10	2	A, B
21	STD-63	NUT, Plain, #10-32	2	A, B
22	72420	HOSE ASSEMBLY, Auto-rich solenoid to nozzle	1	A
	73912	HOSE ASSEMBLY, Auto-rich solenoid to nozzle	1	B
23	72388	HOSE ASSEMBLY, Solenoid connecting	1	A, B

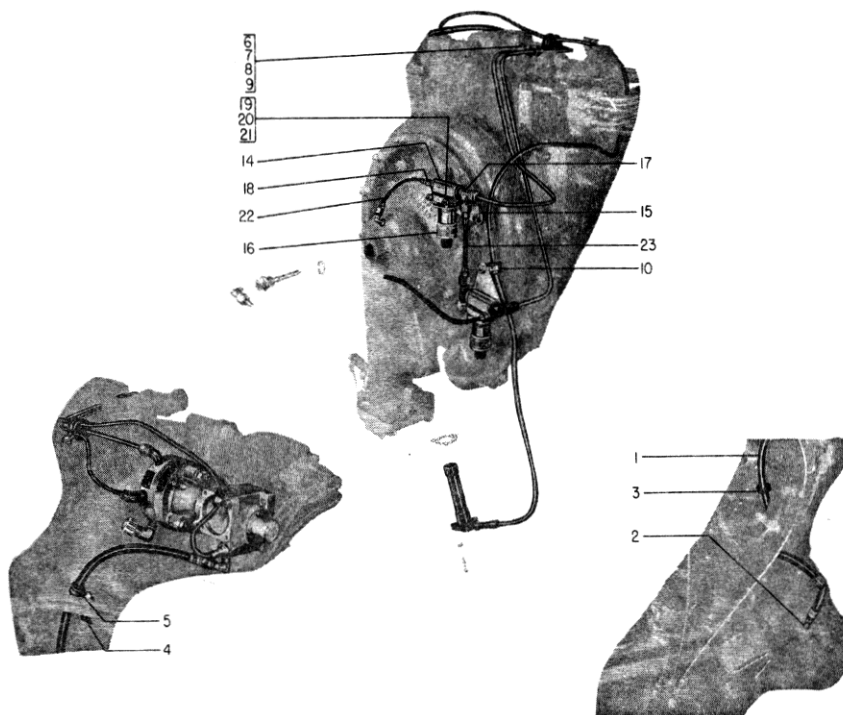


Figure 44. Fuel Injector Oil Filter and Auto-Rich Solenoid

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION VII

IGNITION COMPONENTS

LYCOMING PARTS CATALOG

GSO, IGSO-480 SERIES ENGINES

SECTION VII

IGNITION COMPONENTS

Page Numbers

Engine Model	Magnetos and Attaching Parts 7-2	Magneto Ground Kits 7-3	Ignition Harness P/N 73928 7-4	Ignition Harness P/N 73926 7-5	Ignition Harness P/N 74403 7-6	Ignition Harness P/N 77619 7-7	Ignition Harness Attaching Parts 7-8	Spark Plugs 7-9
GSO-480-A1A	A	A	A				A, C, D, F	A
GSO-480-A1A6	A	A	A				A, C, D, F	A
GSO-480-A2A6	A	A	A				A, C, D, F	A
GSO-480-B1A6	A	A	A		D		A, C, D, F	A
GSO-480-B1B6	A	A	A		D		A, C, D, F	A
GSO-480-B1C6	A	A	A		D		A, C, D, F	A
GSO-480-B1E6	A, C	A, C	A		D		A, C, D, E	A
GSO-480-B1J6	A, E					E	A, C, D, E	A
GSO-480-B2D6	A	A			D		A, C, D, E	A
IGSO-480-A1A6	A, C	A, B, C		B, C			A, C, D, E	A
IGSO-480-A1B6	C	C		B, C			A, C, D, E	A
IGSO-480-A1C6	A	A		C			A, C, D, E	A
IGSO-480-A1E6	C	C	A				A, C	A
IGSO-480-A1F6	C	C		C			A, C	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII
7-2 - MAGNETOS AND ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	71436						MAGNETO, Scintilla model (S6LN-20) 10-51365-33	1	A
1A	71435						MAGNETO, Scintilla model (S6RN-21) Impulse coupling (10-51365-34)	1	A
	71437						MAGNETO, Scintilla model (S6LN-22) 10-52350-22 military, O-480-1	1	B*
	71438						MAGNETO, Scintilla model (S6RN-23) Impulse coupling (10-52350-23) military, O-480-1	1	B*
2	72038						MAGNETO, Scintilla model (S6LN-204) 10-163050-1	1	C
2A	71163						MAGNETO, Scintilla model (S6RN-200) retard breaker (10-163010-1)	1	C
	71801						MAGNETO, Scintilla model (S6LN-604) 10-209350-1	1	D See note*
	72739						MAGNETO, Scintilla model (S6RN-600) retard breaker (10-209310-1)	1	D See note*
3	75900						MAGNETO, Scintilla model (S6LN-1209) 10-349310-2	1	E*
3A	75901						MAGNETO, Scintilla model (S6RN-1227) impulse coupling (10-349370-2)	1	E*
4	STD-1727						WASHER, Plain, 3/4 OD x 11/32 ID x 1/8 in. thick	4	A, B, C, D
5	STD-475						WASHER, Internal lock, 5/16 in.	4	A, B, C, D, E
6	STD-37						NUT, Plain, hex. 5/16-24	4	A, B, C, D, E
7	STD-35						WASHER, Plain, 5/16 in.	1	A, B, C, D, E
8	STD-475						WASHER, Internal lock, 5/16 in.	1	A, B, C, D, E
9	STD-37						NUT, Plain, 5/16-24	1	A, B, C, D, E
10	75695						CLAMP, Magneto	4	E*
11	10-4093						WASHER, Use with S6LN-20, -22 magnetos	1	**
11A	10-4093						WASHER, Use with S6LN-204 and S6RN-200 magnetos	2	**
12	10-4092						NUT, Use with S6LN-20, -22 magnetos	1	**
12A	10-163151						NUT, Use with S6LN-204 and S6RN-200 magnetos	2	**
13	10-90751-19						PIN, Cotter, use with S6LN-20, -22 magnetos	1	**
13A	10-90751-19						PIN, Cotter, use with S6LN-204 and S6RN-200 magnetos	2	**
14	68875						RETAINER, Magneto drive cushion	2	A, B, C, D, E
15	68874						CUSHION, Magneto drive	4	A, B, C, D, E
16	69208						COUPLING, Magneto	1	A, B, E
	69208						COUPLING, Magneto	2	C, D
17	62224						GASKET, Magneto	2	A, B, C, D
18	73820						GASKET, Magneto	2	E*

* - Not illustrated

** - Bendix Scintilla part numbers

NOTE

Lycoming does have a low tension ignition system for IGSO-480 series engines. Consult the Service Department, Lycoming Division, Williamsport, Pa. 17701 for full details.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

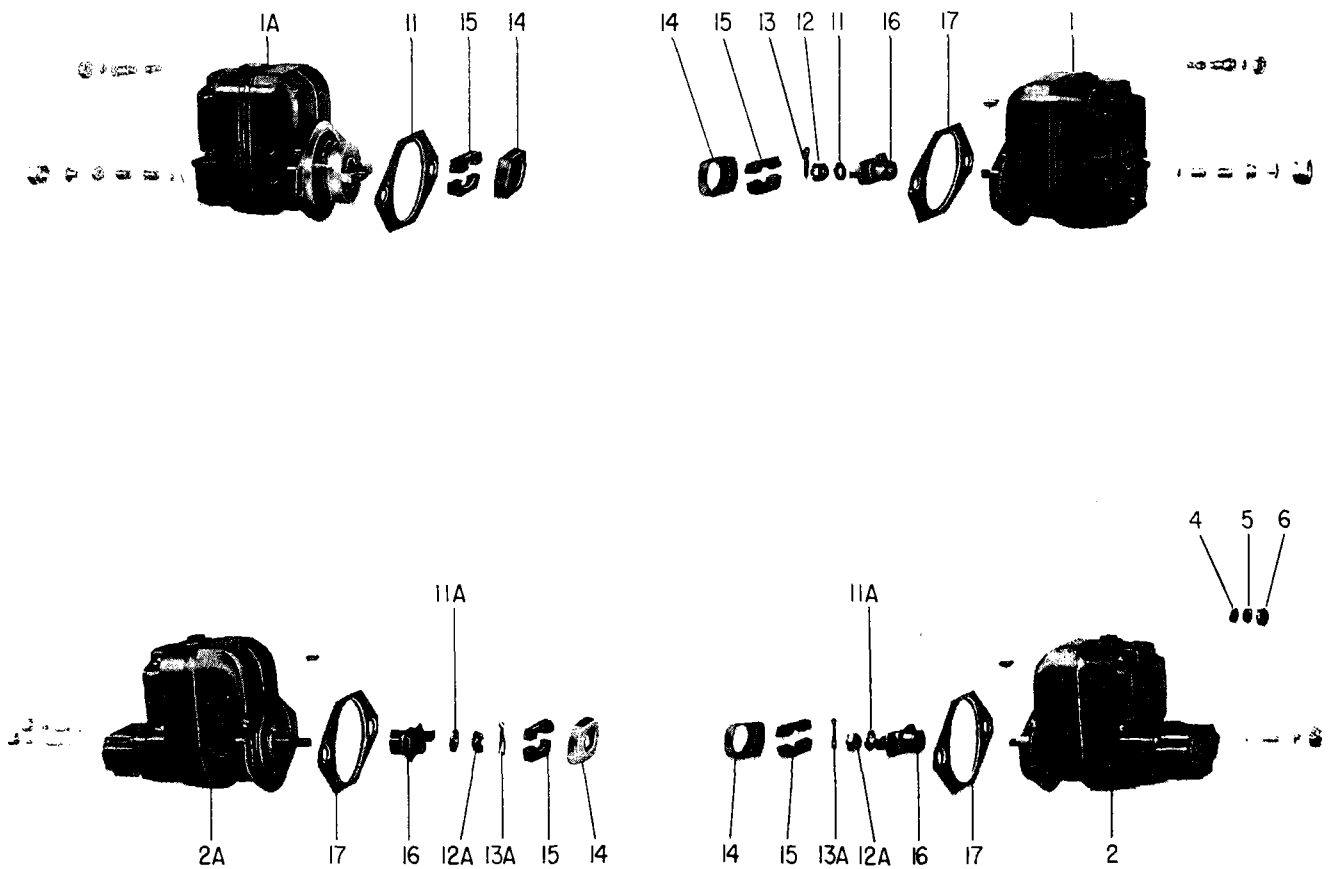


Figure 45. Magneto Assembly and Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.) 7-3 - MAGNETO GROUND KITS

REF. NO.	PART NUMBER	DESCRIPTION					QTY. PER ENG.	MODEL USAGE
		1	2	3	4	5		
1	61566	KIT ASSEMBLY, Magneto ground terminal					2	A
1A	70497	KIT ASSEMBLY, Magneto ground terminal					2	B
1B	71574	KIT, Magneto ground terminal					2	C, D
1C	71571	KIT, Magneto ground terminal					1	C, D

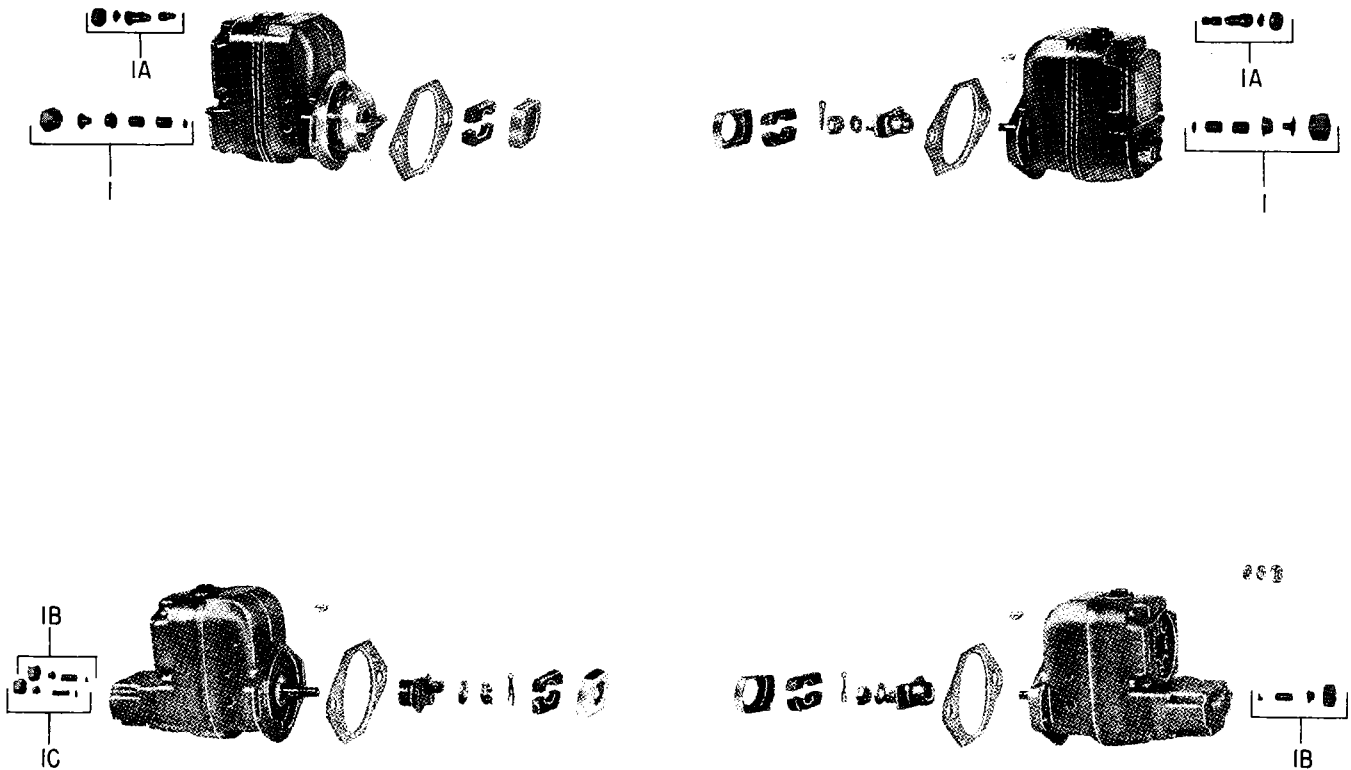


Figure 46. Magneto Ground Terminal Kits

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)
7-4 - IGNITION HARNESS ASSEMBLY, P/N 73928

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73928						CABLE ASSEMBLY, Ignition	1	A
2	6802						CLAMP	1	A
3	6799						SCREW	5	A
4	6813						BRACKET	1	A
5	5152						NUT	5	A
6	54219						CLAMP	4	A
7	52411						EYELET	12	A
8	52426						PLATE	2	A
9	50302						GROMMET	12	A
10	58825						LEAD ASSEMBLY, No. 1 top, 110° elbow	1	A
11	58822						LEAD ASSEMBLY, No. 2 top, 110° elbow	1	A
12	58827						LEAD ASSEMBLY, No. 3 top, 110° elbow	1	A
13	58823						LEAD ASSEMBLY, No. 4 top, 110° elbow	1	A
14	58826						LEAD ASSEMBLY, No. 5 top, 110° elbow	1	A
15	58824						LEAD ASSEMBLY, No. 6 top, 110° elbow	1	A
16	58820						LEAD ASSEMBLY, No. 1 bottom, 110° elbow	1	A
17	58828						LEAD ASSEMBLY, No. 2 bottom, 70° elbow	1	A
18	58821						LEAD ASSEMBLY, No. 3 bottom, 110° elbow	1	A
19	58828						LEAD ASSEMBLY, No. 4 bottom, 70° elbow	1	A
20	58821						LEAD ASSEMBLY, No. 5 bottom, 110° elbow	1	A
21	58829						LEAD ASSEMBLY, No. 6 bottom, 70° elbow	1	A
22	7724						ELBOW 70°	3	A
23	7726						ELBOW 110°	9	A
24	5077						CAP, Protector, not illustrated	12	A
25	54356						SPRING ASSEMBLY	12	A
26	7410						TERMINAL	12	A
27	5028						SPRING ASSEMBLY	12	A
28	54586						BRACKET ASSEMBLY	2	A
29	54588						BRACKET ASSEMBLY	2	A
30	5178						SLEEVE	12	A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

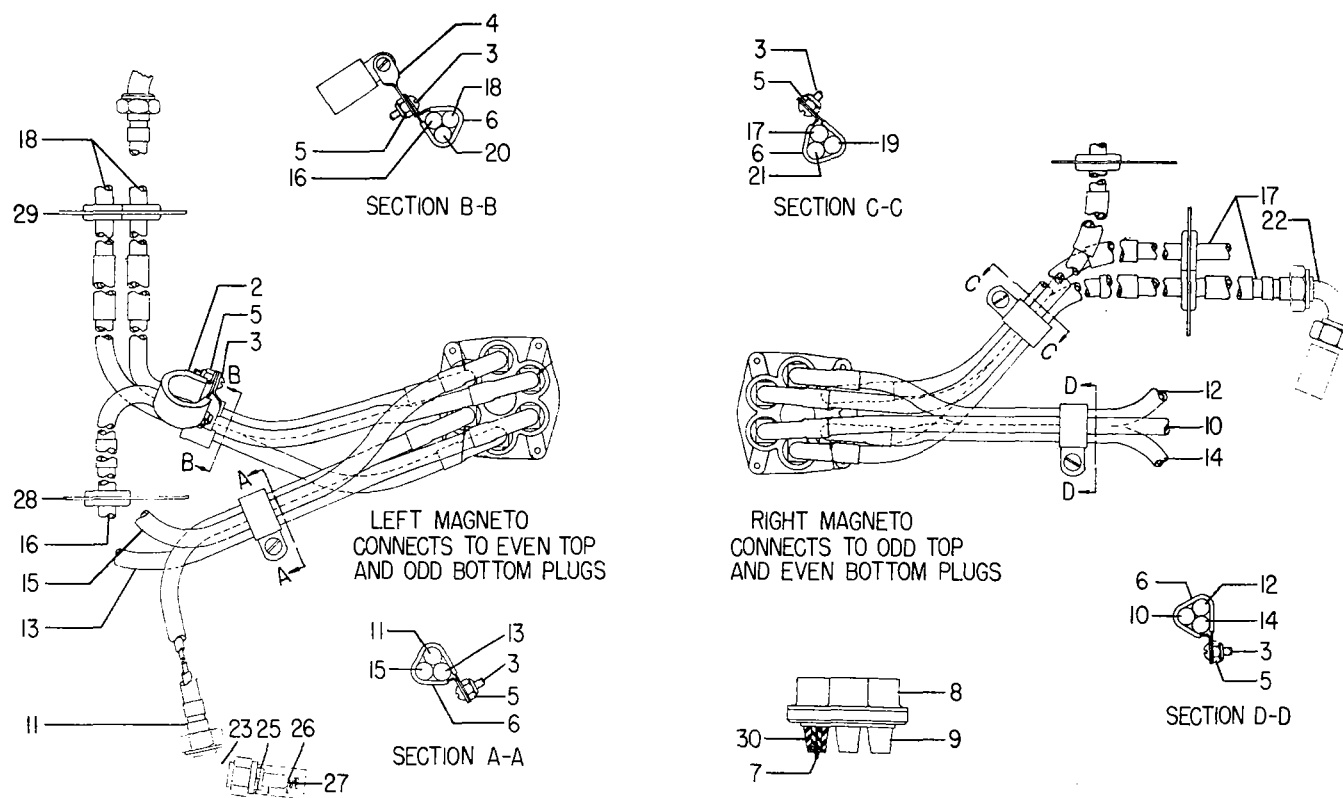


Figure 47. Wiring Harness #73928

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)

7-5 - IGNITION HARNESS ASSEMBLY, P/N 73926

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	73926						CABLE ASSEMBLY, Ignition	1	C, D
2	6802						CLAMP	2	C, D
3	6799						SCREW	6	C, D
4	6813						BRACKET	2	C, D
5	5152						NUT	7	C, D
6	54219						CLAMP	6	C, D
7	52411						EYELET	12	C, D
8	52426						PLATE	2	C, D
9	50302						GROMMET	2	C, D
10	6783						CLAMP	1	C, D
11	59480						LEAD ASSEMBLY, No. 1 top, 110° elbow	1	C, D
12	59477						LEAD ASSEMBLY, No. 2 top, 110° elbow	1	C, D
13	59482						LEAD ASSEMBLY, No. 3 top, 110° elbow	1	C, D
14	59478						LEAD ASSEMBLY, No. 4 top, 110° elbow	1	C, D
15	59481						LEAD ASSEMBLY, No. 5 top, 110° elbow	1	C, D
16	59479						LEAD ASSEMBLY, No. 6 top, 110° elbow	1	C, D
17	59475						LEAD ASSEMBLY, No. 1 bottom, 110° elbow	1	C, D
18	59483						LEAD ASSEMBLY, No. 2 bottom, 70° elbow	1	C, D
19	59476						LEAD ASSEMBLY, No. 3 bottom, 110° elbow	1	C, D
20	59483						LEAD ASSEMBLY, No. 4 bottom, 70° elbow	1	C, D
21	59476						LEAD ASSEMBLY, No. 5 bottom, 110° elbow	1	C, D
22	59484						LEAD ASSEMBLY, No. 6 bottom, 70° elbow	1	C, D
23	5077						CAP, Protector, not illustrated	12	C, D
24	54586						BRACKET ASSEMBLY	1	C, D
25	54588						BRACKET ASSEMBLY	2	C, D
26	6456						SCREW	1	C, D
27	54573						BRACKET ASSEMBLY	1	C, D
28	54356						SPRING ASSEMBLY	12	C, D
29	51581						GROMMET	12	C, D
30	7410						STUD	12	C, D
31	5028						SPRING ASSEMBLY	12	C, D
32	7726						ELBOW, 110°	9	C, D
33	7724						ELBOW, 70°, not illustrated	3	C, D

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

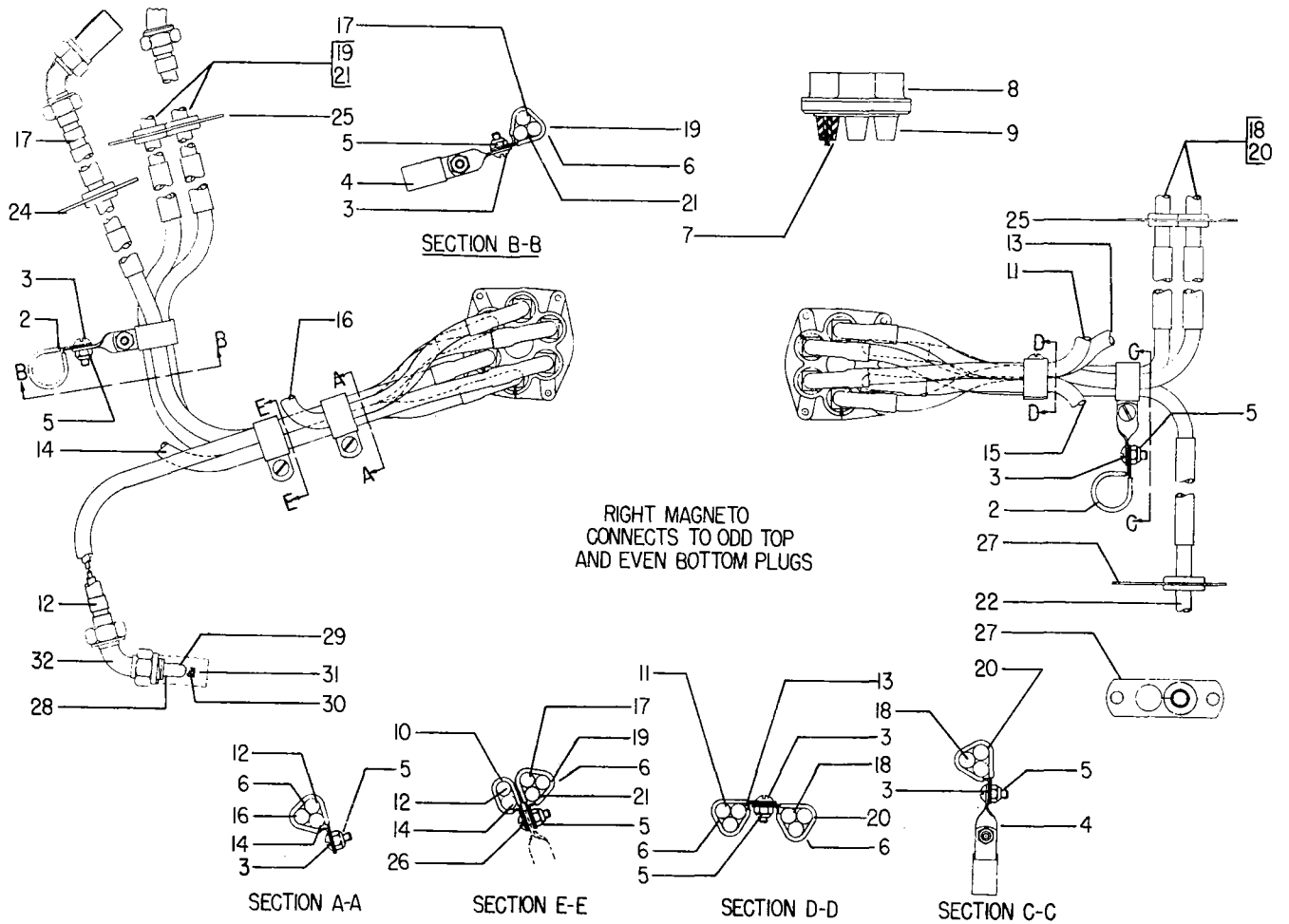


Figure 48. Wiring Harness #73926

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)
7-6 - CABLE ASSEMBLY, IGNITION SHIELDED, P/N 74403

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	74403						CABLE ASSEMBLY, Ignition shielded (See note)	1	D
2	54219						CLAMP	7	D
3	5152						NUT	7	D
4	6456						SCREW	7	D
5	52442						BRACKET	1	D
6	6802						CLAMP	3	D
7	6778						CLAMP	3	D
8	50302						GROMMET	2	D
9	52426						PLATE	2	D
10	6783						CLAMP	1	D
11	7726						ELBOW, 110°	12	D
12	59847						LEAD ASSEMBLY, No. 1 top, 110° elbow	1	D
13	59845						LEAD ASSEMBLY, No. 2 top, 110° elbow	1	D
14	59850						LEAD ASSEMBLY, No. 3 top, 110° elbow	1	D
15	59843						LEAD ASSEMBLY, No. 4 top, 110° elbow	1	D
16	59848						LEAD ASSEMBLY, No. 5 top, 110° elbow	1	D
17	59846						LEAD ASSEMBLY, No. 6 top, 110° elbow	1	D
18	59842						LEAD ASSEMBLY, No. 1 bottom, 110° elbow	1	D
19	59849						LEAD ASSEMBLY, No. 2 bottom, 110° elbow	1	D
20	59844						LEAD ASSEMBLY, No. 3 bottom, 110° elbow	1	D
21	59849						LEAD ASSEMBLY, No. 4 bottom, 110° elbow	1	D
22	59844						LEAD ASSEMBLY, No. 5 bottom, 110° elbow	1	D
23	59851						LEAD ASSEMBLY, No. 6 bottom, 110° elbow	1	D
24	5077						CAP, Protector, not illustrated	12	D
25	54356						SPRING ASSEMBLY	12	D
26	51581						GROMMET	12	D
27	7410						STUD, Terminal	12	D
28	5028						SPRING ASSEMBLY	12	D

NOTE

Lycoming shielded ignition cable P/N 74403
conforms to AN-I-27 military specifications.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

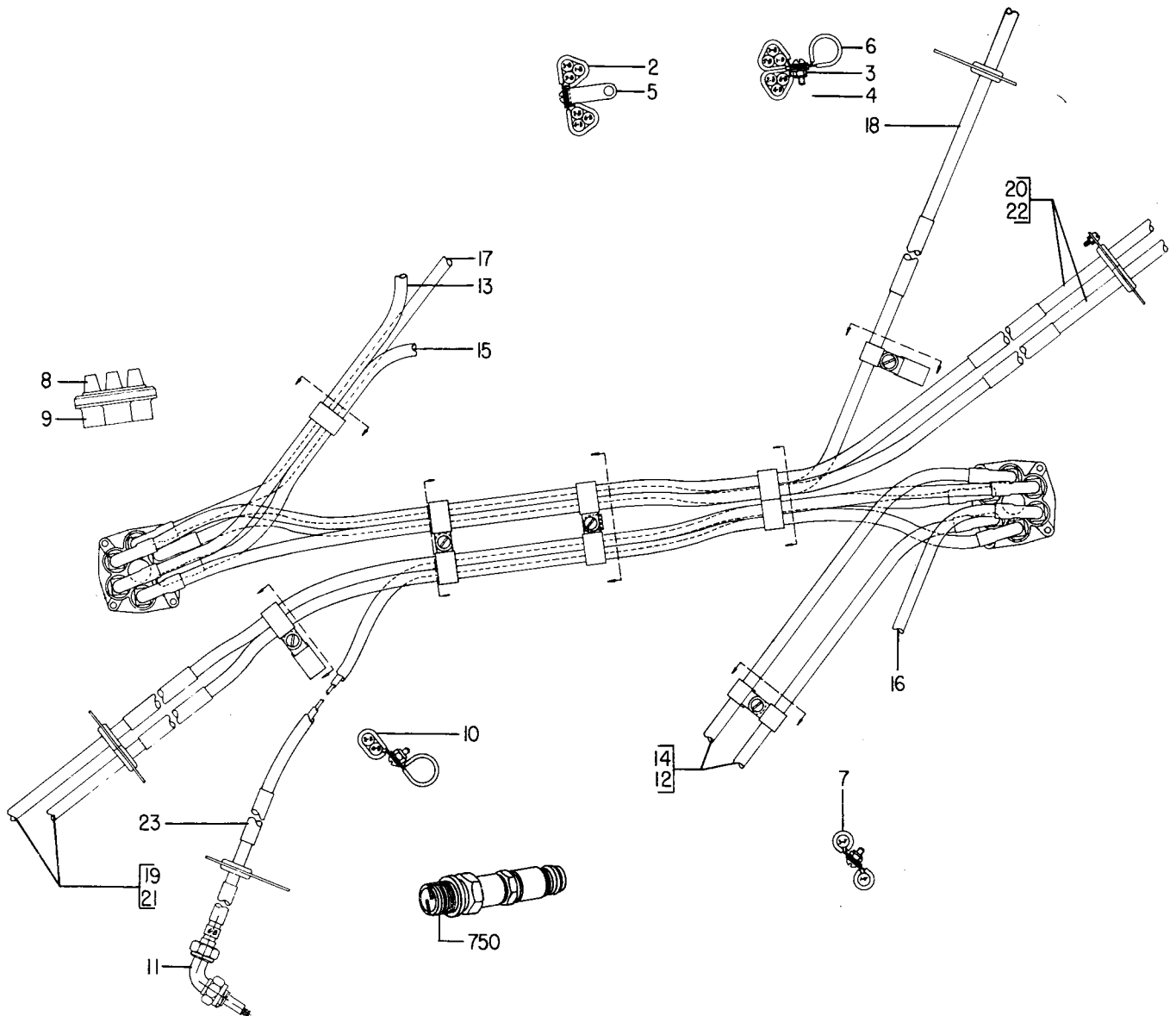


Figure 49. Wiring Harness #74403

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)
7-7 - CABLE ASSEMBLY, IGNITION, P/N 77619

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	77619						CABLE ASSEMBLY, Shielded all weather harness	1	F
2	72262						SPRING AND EYELET ASSEMBLY	12	F
3	72263						TERMINAL, #3-48 NC-2 x 7/32 in. long	12	F
4	72250						SPRING ASSEMBLY, Ignition, high altitude	12	F
5	76718						GROMMET, Spark plug	12	F
6	76719						FERRULE, Inner spark plug terminal, not ill.	12	F
7	76720						NUT, Spark plug (3/4-20 THD.)	12	F
8	76721						ELBOW, Spark plug terminal (5MM. alum.) 70°	8	F
9	76722						ELBOW, Spark plug terminal (5MM. alum.) 110°	4	F
10	76723						CABLE, High tension shielded	471 in.	F
11	76724						SLEEVE, Ignition cable (5MM)	48 in.	F
12	76725						SLEEVE, Ignition cable (5MM)	391 in.	F
13	76923-72S 110-75						LEAD, Service (1T, 2T)	2	F
14	76923-48S 70-75						LEAD, Service (5T, 6T and all bottom)	8	F
15	76923-48S 110-75						LEAD, Service (3T, 4T)	2	F
16	76726						INNER SLEEVE, Shield term. braid confining (5MM)	12	F
17	76728						SLEEVE, Shield term. (5MM) insulation support	12	F
18	76729						RING, Retainer, spark plug cable	12	F
19	76072						PLATE, Ignition cable outlet, right	2	F
20	76750						GROMMET, Distributor 6 cylinder (5MM)	2	F
21	73245						EYELET, High cable contact	12	F
22	75941						IDENTIFICATION TAPE, Ignition	1	F
23	76734						ZIP, Strap	13	F
24	68604						CLIP, 5/16 ID for 1/4 dia. screw (cushion type, 1 wire)	4	F
25	61385						CLIP, Ignition cable, 2 wire	4	F
26	72162						CLIP, Support line, 6 wire	1	F
27	STD-29						SCREW, Round head, #10-32 x 3/8 in. long	1	F
28	STD-670						NUT, Self-locking, #10-32	2	F
29	76735						BRACKET, Extension	1	F
30	STD-692						SCREW, Round head, #10-32 x 1/2 in. long	1	F
31	73751						CLAMP, Rubber dip, 3 wire	2	F
32	STD-8						WASHER, Plain, 1/4 in.	14	F
33	70338						SPACER	2	F
34	70405						RETAINER	2	F
35	STD-8						WASHER, Plain, 1/4 in.	2	F
36	STD-160						WASHER, Internal lock, 1/4 in.	2	F
37	STD-1843						BOLT, 1/4-20 x 3.00 in. long	2	F
38	77156						PROTECTOR, Ignition cable	12	F

NOTE

Attaching parts are not illustrated.
These include Ref. No's. 23 thru 38.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
-------------	----------------	---	---	---	---	---	-------------	---------------------	----------------

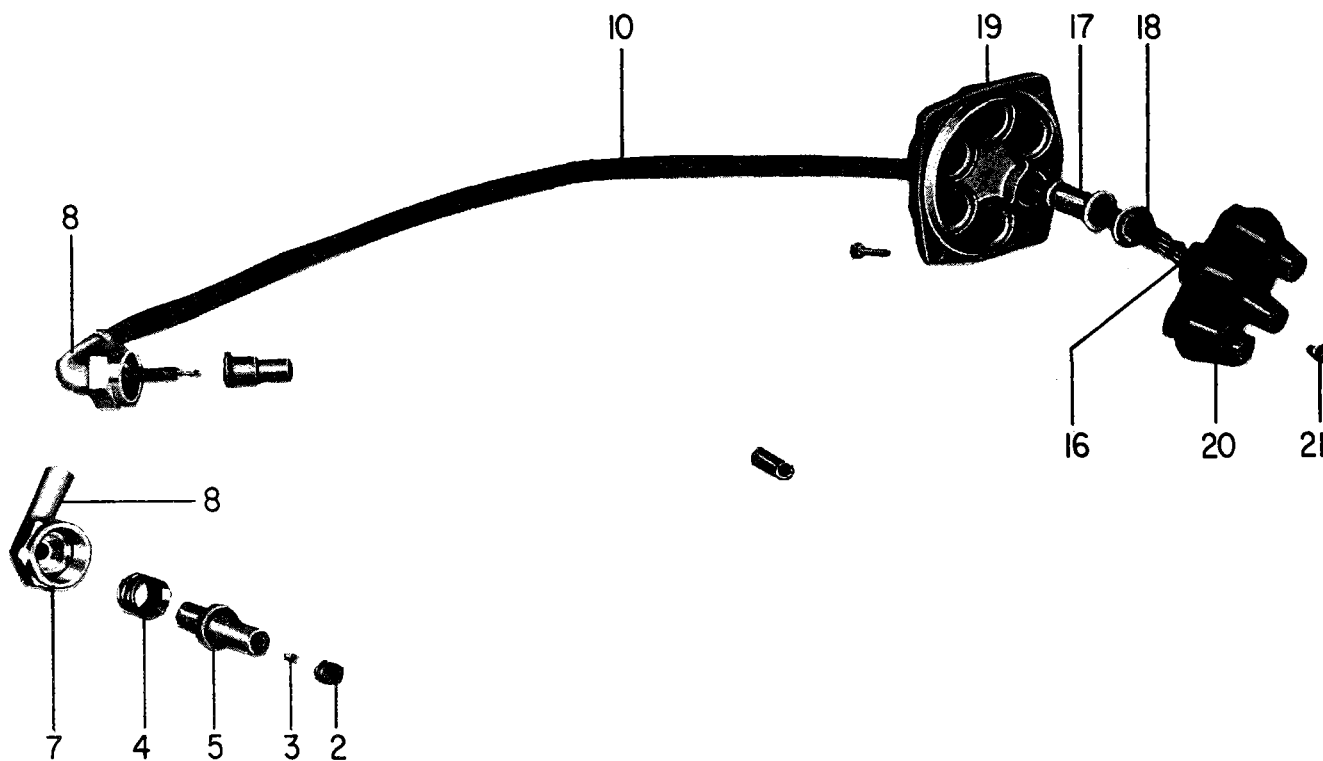


Figure 50. Wiring Harness #77619

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)
7-8 - IGNITION HARNESS ATTACHING PARTS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	70338						SPACER, Breather housing	2	A, C, D, F
2	STD-8						WASHER, Plain, 1/4 in.	2	A, C, D, F
3	70405						RETAINER, Ignition wire	2	A, C, D, F
4	STD-8						WASHER, Plain, 1/4 in.	2	A, C, D, F
5	STD-160						WASHER, Internal lock, 1/4 in.	2	A, C, D, F
6	STD-1843						BOLT, 1/4-20 x 3.00 in. long	2	A, C, D, F
7	71911						CLAMP, 1-3/4 ID with 7/16 in. offset	6	A, C, D, E
8	STD-553						SCREW, Round head, #6-32 x 1/2 in. long	6	A, C, D, E
9	AN365-632C						NUT, Self-locking, #6-32	6	A, C, D, E
10	STD-692						SCREW, Round head, #10-32 x 1/2 in. long	8	A, C, D, E
11	STD-670						NUT, Self-locking, #10-32	8	A, C, D, E
12	72351						SCREW, Self-locking, #10-32, not ill.	8	A, C, D, E
13	74053						VENT SHIELD, Mag. breaker hsg., not ill.	2	A, C

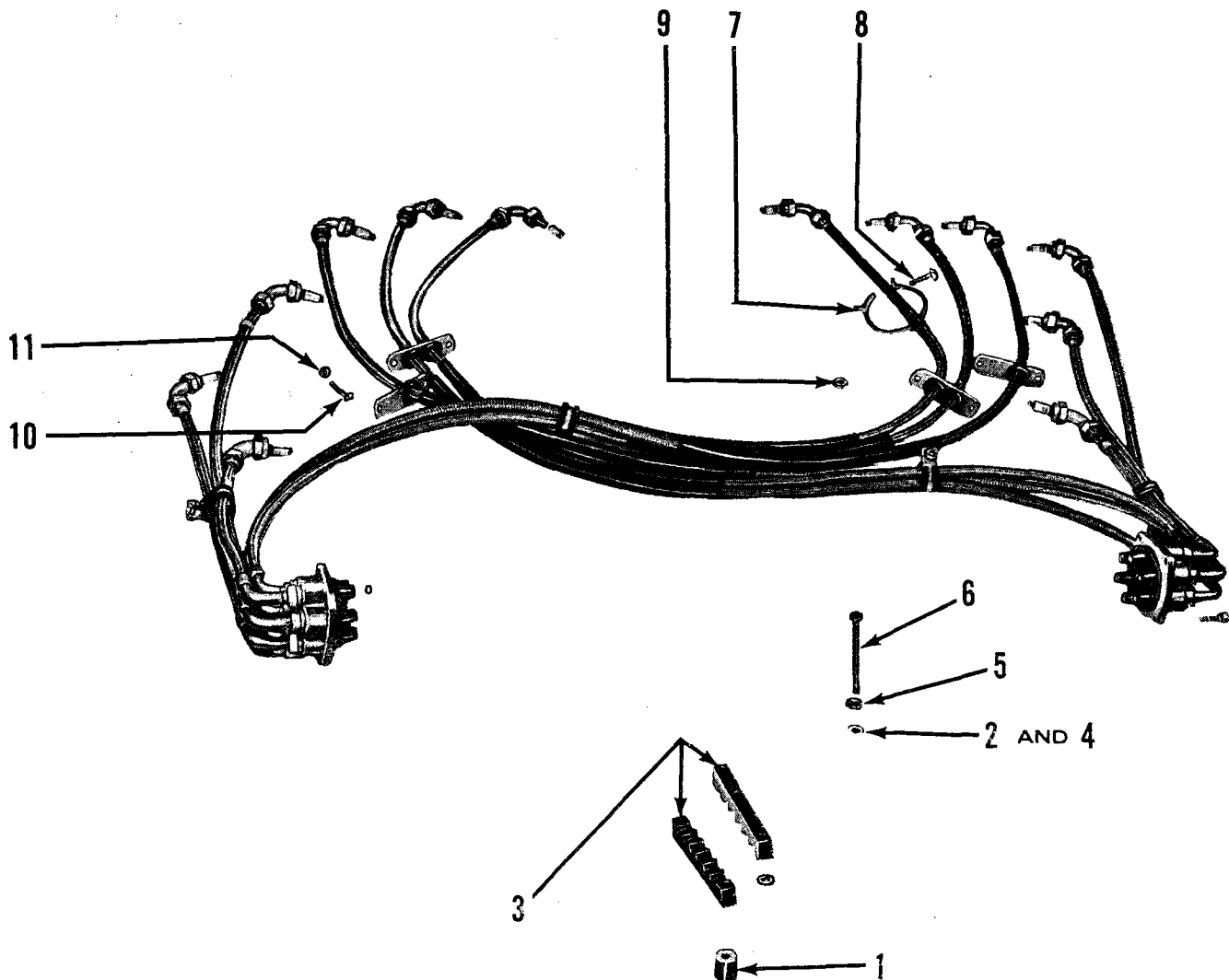


Figure 51. Wiring Harness Attaching Parts

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION VII (CONT.)
7-9 - SPARK PLUGS

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	1182-V3						SPARK PLUG, Champion RHB-36P (See note) (Long reach, all weather)	12	A

NOTE

Refer to latest edition of Lycoming Service
Instruction #1042 for full spark plug information.

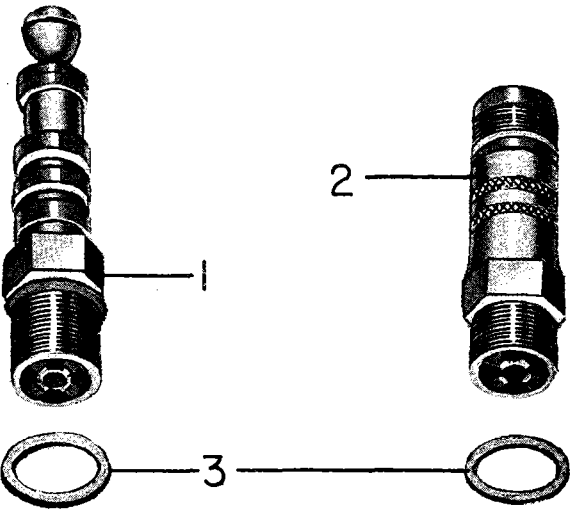


Figure 52. Spark Plug Assembly

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL PARTS LIST

SECTION VIII

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
41-22	AN3-14A	Bolt	2	21-10	STD-9	Nut	8
44-19	AN3-14A	Bolt	2	26-8	STD-9	Nut	24
6-11	AN4-12A	Bolt	5	31-13	STD-9	Nut	10
6-10	AN4-15A	Bolt	2	32-7	STD-9	Nut	6
6-12	AN4-16	Bolt	6	35-12	STD-9	Nut	11
6-1	AN6-16	Bolt	1	37-15	STD-9	Nut	13
6-3	AN6-21A	Bolt	4	37-19	STD-9	Nut	6
6-2	AN6-24	Bolt	2	38-24	STD-9	Nut	7
40-11	AN365-632C	Nut	12	40-7	STD-9	Nut	1
51-9	AN365-632C	Nut	6	14-9	STD-19	Dowel	1
14-5	AN381-2-10	Pin	1	41-12	STD-28	Washer	2
19-9	AN381-4-20	Pin	2	41-23	STD-28	Washer	3
7-10	AN435-3-6	Rivet	1	43-7	STD-28	Washer	1
34-23	AN501-A416-12	Screw	4	43-13	STD-28	Washer	1
44-18	AN816-3	Nipple	1	44-7	STD-28	Washer	1
41-15	AN822-4	Elbow	1	43-12	STD-29	Screw	1
44-2	AN823-3	Elbow	1	44-6	STD-29	Screw	1
24-10	AN823-6D	Elbow	6	50-27	STD-29	Screw	1
41-21	AN825-4	Tee	2	2-12	STD-33	Washer	4
20-8	AN900-12	Gasket	2	6-4	STD-33	Washer	15
20-4	AN900-28	Gasket	1	9-13	STD-33	Washer	6
38-12	AN935-8L	Lockwasher	2	11-10	STD-33	Washer	8
21-1	AN4047-1	Gasket	2	21-3	STD-33	Washer	12
44-1	AN6270-3-23-1/2	Hose Assy.	1	2-14	STD-35	Washer	6
14-12	AN102010	Bolt	4	8-7	STD-35	Washer	4
14-12	AN102015	Bolt	4	11-1	STD-35	Washer	16
14-20	AN115907	Screw	6	21-13	STD-35	Washer	4
41-14	AN123029	Gasket	1	21-18	STD-35	Washer	4
37-20	AN124001	Seal	1	29-3	STD-35	Washer	12
2-7	MS122163	Insert	1	39-3	STD-35	Washer	4
2-10	MS122163	Insert	1	39-7	STD-35	Washer	4
18-10	MS122200	Insert	4	41-8	STD-35	Washer	3
38-7	MS124776	Insert	2	41-10	STD-35	Washer	4
25-9	MS13997-3	Key	12	50-7	STD-35	Washer	1
25-11	MS13998-3	Cap	6	11-3	STD-37	Nut	4
14-4	STD-2	Nut	1	21-15	STD-37	Nut	1
39-4	STD-2	Nut	4	21-20	STD-37	Nut	4
39-8	STD-2	Nut	4	29-5	STD-37	Nut	12
6-13	STD-8	Washer	26	41-10	STD-37	Nut	3
11-4	STD-8	Washer	6	41-10	STD-37	Nut	4
12-25	STD-8	Washer	13	45-6	STD-37	Nut	4
15-12	STD-8	Washer	6	45-9	STD-37	Nut	1
15-21	STD-8	Washer	1	14-13	STD-43	Nut	4
16-4	STD-8	Washer	3	19-13	STD-43	Nut	6
19-11	STD-8	Washer	6	19-16	STD-60	Pin	1
21-8	STD-8	Washer	8	19-15	STD-61	Nut	1
31-11	STD-8	Washer	34	41-25	STD-63	Nut	2
32-5	STD-8	Washer	9	43-9	STD-63	Nut	1
33-4	STD-8	Washer	12	43-15	STD-63	Nut	1
34-4	STD-8	Washer	8	44-9	STD-63	Nut	2
35-10	STD-8	Washer	11	44-21	STD-63	Nut	1
37-13	STD-8	Washer	13	8-10	STD-68	Pin	4
38-22	STD-8	Washer	7	12-40	STD-71	Plug	2
40-5	STD-8	Washer	1	19-12	STD-71	Plug	1
42-6	STD-8	Washer	2	38-16	STD-82	Screw	1
50-32	STD-8	Washer	14	42-14	STD-82	Screw	4
50-35	STD-8	Washer	2	9-4	STD-95	Key	1
51-2	STD-8	Washer	2	6-16	STD-97	Nut	6
51-4	STD-8	Washer	2	15-13	STD-97	Nut	1
6-15	STD-9	Nut	7	15-23	STD-97	Nut	6
11-6	STD-9	Nut	6	11-7	STD-111	Gasket	1
12-27	STD-9	Nut	11	12-39	STD-111	Gasket	1

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
31-7	STD-111	Gasket	1	11-11	STD-678	Washer	8
10-8	STD-120	Plug	1	21-4	STD-678	Washer	12
12-4	STD-132	Dowel	1	5-3	STD-679	Screw	4
40-8	STD-148	Nipple	6	28-2	STD-684	Nipple	6
6-14	STD-160	Washer	7	43-6	STD-692	Screw	1
11-5	STD-160	Washer	6	50-30	STD-692	Screw	1
12-26	STD-160	Washer	12	51-10	STD-692	Screw	8
16-5	STD-160	Washer	3	15-22	STD-696	Washer	AR
21-9	STD-160	Washer	8	6-6	STD-713	Pin	1
26-7	STD-160	Washer	24	1-18	STD-783	Plug	1
31-12	STD-160	Washer	24	17-14	STD-783	Plug	1
32-6	STD-160	Washer	6	12-36	STD-783	Plug	1
33-5	STD-160	Washer	12	7-15	STD-798	Dowel	1
35-11	STD-160	Washer	11	10-4	STD-798	Dowel	2
37-14	STD-160	Washer	13	34-8	STD-798	Dowel	2
37-18	STD-160	Washer	6	34-11	STD-798	Dowel	1
38-23	STD-160	Washer	7	4-13	STD-858	Key	1
40-6	STD-160	Washer	1	7-16	STD-859	Dowel	1
42-7	STD-160	Washer	2	12-10	STD-859	Dowel	1
50-36	STD-160	Lockwasher	2	42-21	STD-860	Screw	1
51-5	STD-160	Washer	2	6-5	STD-872	Nut	4
20-1	STD-208	Oil Seal	1	31-20	STD-918	Screw	3
13-2	STD-213	Oil Seal	1	17-4	STD-951	Dowel	1
41-24	STD-251	Washer	2	17-7	STD-951	Dowel	1
43-8	STD-251	Washer	1	12-24	STD-993	Dowel	1
43-14	STD-251	Washer	1	7-2	STD-994	Ring	1
44-8	STD-251	Washer	2	44-13	STD-1002	Ring	1
44-20	STD-251	Washer	1	34-19	STD-1006	Ring	1
10-18	STD-332	Circlip	1	8-9	STD-1013	Nut	4
37-6	STD-375	Screw	6	8-21	STD-1016	Screw	6
10-15	STD-394	Dowel	1	7-20	STD-1021	Dowel	1
12-7	STD-394	Dowel	1	15-5	STD-1050	Circlip	2
15-20	STD-394	Dowel	2	17-16	STD-1053	Plug	1
18-7	STD-394	Dowel	1	5-2	STD-1066	Dowel	1
19-6	STD-394	Dowel	1	17-8	STD-1104	Plug	2
31-10	STD-405	Plug	2	18-14	STD-1164	Insert	1
42-22	STD-425	Washer	1	31-5	STD-1173	Insert	3
17-11	STD-394	Dowel	1	16-8	STD-1215	Bolt	3
11-2	STD-475	Washer	4	33-6	STD-1215	Bolt	12
21-14	STD-475	Washer	4	12-28	STD-1230	Bolt	1
21-19	STD-475	Washer	4	31-15	STD-1230	Bolt	10
29-4	STD-475	Washer	12	32-4	STD-1230	Bolt	3
41-9	STD-475	Washer	3	33-8	STD-1269	Clamp	12
41-10	STD-475	Washer	4	1-9	STD-1315	Insert	17
45-5	STD-475	Washer	4	12-2	STD-1315	Insert	5
45-8	STD-475	Washer	1	34-3	STD-1315	Insert	4
14-15	STD-547	Seal	1	3-6	STD-1339	Plug	6
31-9	STD-550	Plug	2	12-38	STD-1339	Plug	5
45-12	STD-553	Screw	12	17-18	STD-1339	Plug	1
40-12	STD-553	Screw	12	35-8	STD-1339	Plug	1
51-8	STD-553	Screw	6	38-6	STD-1353	Insert	3
1-2	STD-557	Dowel	3	9-3	STD-1392	Plug	1
6-8	STD-596	Nut	4	18-9	STD-1392	Plug	1
11-12	STD-596	Nut	8	16-6	STD-1419	Bolt	2
21-5	STD-596	Nut	12	34-18	STD-1459	Bolt	5
2-15	STD-616	Nut	6	16-7	STD-1621	Bolt	1
2-20	STD-617	Nut	4	1-12	STD-1623	Insert	1
42-23	STD-670	Nut	1	44-12	STD-1654	Ring	1
50-28	STD-670	Nut	2	31-14	STD-1679	Bolt	14
51-11	STD-670	Nut	8	30-6	STD-1686	Screw	4
42-31	STD-674	Nut	5	30-5	STD-1687	Washer	4
6-7	STD-678	Washer	4	9-14	STD-1695	Nut	6

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
15-10	STD-1701	Ring	1	17-12	31-14	Stud	1
15-24	STD-1702	Seal	1	18-15	31-14	Stud	3
37-2	STD-1703	Screw	4	38-3	31-14	Stud	4
13-4	STD-1708	Seal	1	12-32	31-16	Stud	4
15-26	STD-1709	Circlip	1	10-16	31-18	Stud	4
45-4	STD-1727	Washer	4	12-33	31-21	Stud	1
37-16	STD-1733	Ring	6	12-31	31-26	Stud	1
7-22	STD-1736	Pin	1	38-3	31D-14	Stud	4
32-2	STD-1753	Ring	2	39-6	31D-15	Stud	4
38-18	STD-1756	Washer	1	1-8	38-13	Stud	24
28-3	STD-1821	Hose	6	1-13	38-16	Stud	8
31-6	STD-1832	Insert	2	12-34	38-16	Stud	6
50-37	STD-1843	Bolt	2	7-17	38-17	Stud	6
51-6	STD-1843	Bolt	2	2-2	38-21	Stud	2
38-5	STD-1849	Insert	1	2-8	38-22	Stud	1
14-2	STD-1854	Washer	1	2-11	38-22	Stud	1
38-14	STD-1855	Groove Pin	1	2-3	38-23	Stud	2
14-3	STD-1860	Screw	1	17-13	38-31	Stud	6
12-29	STD-1879	Bolt	1	1-14	38D-22	Stud	1
42-8	STD-1879	Bolt	2	1-7	50-15	Stud	12
42-30	STD-1893	Screw	5	9-12	511	Spacer	12
38-17	STD-1896	Screw	1	18-6	654-B	Spring	1
41-13	STD-1896	Screw	3	20-9	662	Nut	1
11-16	STD-1901	Drive Stud	4	21-2	671-B	Cover	2
28-4	STD-1924	Clamp	12	18-3	1028-B	Ball	1
26-13	STD-1925	Screw	48	1-17	1102	Plug	4
18-19	STD-1973	Key	1	7-19	1102	Plug	1
24-8	25-8	Stud	24	10-13	1102	Plug	3
1-16	25-10	Stud	1	12-12	1102	Plug	1
7-21	25-10	Stud	6	15-29	1102	Plug	1
35-3	25-10	Stud	11	17-15	1102	Plug	2
35-3	25-10	Stud	9	35-7	1102	Plug	1
37-9	25-10	Stud	6	36-13	1102	Plug	1
37-9	25-10	Stud	7	52-1	1182-V3	Plug	12
1-15	25-11	Stud	4	37-20	1540	Plug	1
35-4	25-11	Stud	2	21-11	1691-C	Gasket	1
37-12	25-11	Stud	5	47-27	5028	Spring	12
12-14	25-12	Stud	13	48-31	5028	Spring	12
17-9	25-12	Stud	5	49-28	5028	Spring	12
37-11	25-12	Stud	3	47-24	5077	Cap	12
12-15	25-13	Stud	15	48-23	5077	Cap	12
31-4	25-13	Stud	4	49-24	5077	Cap	12
35-5	25-13	Stud	2	47-5	5152	Nut	5
37-10	25-13	Stud	1	48-5	5152	Nut	7
12-19	25-16	Stud	4	49-3	5152	Nut	7
12-20	25-23	Stud	1	47-30	5178	Sleeve	12
12-17	25-27	Stud	1	48-26	6456	Screw	1
17-17	25-29	Stud	1	49-4	6456	Screw	7
12-18	25-34	Stud	2	49-7	6778	Clamp	3
12-21	25-37	Stud	1	48-10	6783	Clamp	1
12-22	25-38	Stud	1	49-10	6783	Clamp	1
12-16	25-40	Stud	1	47-3	6799	Screw	5
17-10	25D-16	Stud	6	48-3	6799	Screw	6
18-8	25D-23	Stud	4	47-2	6802	Clamp	1
12-23	25D-24	Stud	1	48-2	6802	Clamp	2
18-11	25D-24	Stud	1	49-6	6802	Clamp	3
18-12	25D-26	Stud	1	47-4	6813	Bracket	1
18-16	31-12	Stud	1	48-4	6813	Bracket	2
24-7	31-12	Stud	12	47-26	7410	Terminal	12
1-6	31-13	Stud	6	48-30	7410	Stud	12
12-30	31-14	Stud	6	49-27	7410	Stud	12
12-30	31-14	Stud	2	47-22	7724	Elbow	3

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
48-33	7724	Elbow	3	49-16	59848	Lead Assy.	1
47-23	7726	Elbow	9	49-19	59849	Lead Assy.	1
48-32	7726	Elbow	9	49-21	59849	Lead Assy.	1
49-11	7726	Elbow	12	49-14	59850	Lead Assy.	1
21-6	8313	Gasket	2	49-23	59851	Lead Assy.	1
21-16	20415	Gasket	1	25-10	60009	Key	12
34-21	30311	Bearing	1	29-1	60131	Gasket	6
9-11	40507	Seal	1	33-1	60131	Gasket	6
4-2	45226	Tube	6	21-12	60431	Cover	1
47-9	50302	Grommet	12	6-9	60803	Strap	2
48-9	50302	Grommet	2	18-20	61297	Impeller	1
49-8	50302	Grommet	2	50-25	61385	Clip	4
48-29	51581	Grommet	12	21-7	60430	Cover	2
49-26	51581	Grommet	1	27-5	61503	Sleeve	12
47-7	52411	Eyelet	12	11-15	61548	Plate	1
48-7	52411	Eyelet	12	46-1	61566	Kit Assy.	2
47-8	52426	Plate	2	40-3	61581-14	Tube Assy.	2
48-8	52426	Plate	2	40-1	61581-15	Tube Assy.	2
49-9	52426	Plate	2	40-2	61581-16	Tube Assy.	2
49-5	52442	Bracket	1	45-17	62224	Gasket	2
47-6	54219	Clamp	4	27-6	62922	Seal	24
48-6	54219	Clamp	6	1-10	65007	Retainer	12
49-2	54219	Clamp	7	9-8	65030	Shim	1
47-25	54356	Spring	12	3-4	65074	Socket	12
48-28	54356	Spring	12	9-6	65366	Bearing	1
49-25	54356	Spring	12	4-3	65518	Plug	1
48-27	54573	Bracket	1	4-6	65519	Bushing	1
47-28	54586	Bracket	2	30-4	65614	Plug	4
48-24	54586	Bracket	1	11-9	65818	Pin	1
47-29	54588	Bracket	2	22-2	65819	Bushing	6
48-25	54588	Bracket	2	7-6	65970	Gear	1
47-12	58227	Lead Assy.	1	7-9	65973	Lockring	1
47-16	58820	Lead Assy.	1	8-2	65978	Gear Assy.	1
47-18	58821	Lead Assy.	1	8-3	65979	Gear	1
47-20	58821	Lead Assy.	1	8-5	65980	Plate	1
47-11	58822	Lead Assy.	1	8-16	65985	Roller	102
47-13	58823	Lead Assy.	1	8-13	65986	Shaft	6
47-15	58824	Lead Assy.	1	8-14	65987	Cut	6
47-10	58825	Lead Assy.	1	8-6	65992	Circlip	AR
47-14	58826	Lead Assy.	1	7-8	66049	Circlip	AR
47-17	58828	Lead Assy.	1	7-8	66050	Circlip	AR
47-19	58828	Lead Assy.	1	7-8	66051	Circlip	AR
47-21	58829	Lead Assy.	1	8-15	66052	Pin	6
48-17	59475	Lead Assy.	1	14-8	66145	Dowel	2
48-21	59476	Lead Assy.	1	19-2	66426	Impeller	1
48-19	59476	Lead Assy.	1	24-9	66670	Bushing	24
48-12	59477	Lead Assy.	1	24-4	66713	Guide	6
48-14	59478	Lead Assy.	1	27-3	66717	Spring	6
48-16	59479	Lead Assy.	1	27-4	66728	Washer	24
48-11	59480	Lead Assy.	1	26-6	66731	Cover	12
48-15	59481	Lead Assy.	1	26-5	66732	Gasket	12
48-13	59482	Lead Assy.	1	1-5	66734	Stud	4
48-18	59483	Lead Assy.	1	24-6	66796 P10	Insert	12
48-20	59483	Lead Assy.	1	26-9	67112	Rocker Assy.	6
48-22	59484	Lead Assy.	1	26-2	67713	Rocker Assy.	6
49-18	59842	Lead Assy.	1	26-3	67114	Bushing	6
49-15	59843	Lead Assy.	1	26-10	67114	Bushing	6
49-20	59844	Lead Assy.	1	34-16	67186	Plate	1
49-22	59844	Lead Assy.	1	26-11	67193	Gasket	6
49-19	59845	Lead Assy.	1	29-6	67195	Flange	6
49-17	59846	Lead Assy.	1	4-15	67204	Plate	1
49-12	59847	Lead Assy.	1	34-17	67258	Lockplate	1

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
22-1	67275	Rod Assy.	6	15-28	68186	Adapter	1
22-5	67276	Bearing	12	31-18	68191	Retainer	1
7-7	67388	Plate	1	31-16	68192	Gasket	1
8-18	67393	Gear	6	32-1	68193	Pipe	1
14-17	67583	Gear	1	31-17	68198	Screen Assy.	1
15-18	67596	Bushing	1	9-10	68291	Cap	1
15-25	67605	Jaw	1	8-20	68293	Housing	1
14-18	67609	Gear	1	8-12	68297	Cage	1
14-16	67610	Gear Assy.	1	12-13	68313	Stud	8
34-7	67630	Bushing	2	7-18	68321	Stud	4
15-27	67633	Gasket	1	9-9	68322	Cap Assy.	1
34-1	67638	Shim	1	25-3	68325	Seat	6
34-20	67640	Washer	1	25-7	68325	Seat	6
34-25	67641	Nut	1	25-5	68326	Spring	12
34-24	67642	Lockwasher	1	25-8	68327	Seat	6
12-11	67646	Bushing	1	25-6	68328	Spring	12
17-3	67653	Bushing	1	8-8	68364	Bolt	4
37-4	67678	Gasket	1	19-3	68403	Impeller	2
4-14	67687	Gear	1	18-21	68404	Impeller	1
4-16	67688	Nut	1	14-14	68410	Gear Assy.	1
13-5	67690	Washer	1	12-6	68425	Bushing	1
31-19	67696	Screen	1	18-22	68456	Gasket	1
15-9	67697	Ball Bearing	1	19-10	68464	Strainer	1
13-3	67704	Shaftgear Assy.	1	19-4	68465	Body Assy.	1
15-14	67708	Gasket	2	18-5	68466	Bushing	1
15-16	67709	Shim	1	19-5	68466	Bushing	1
34-10	67710	Bushing	1	19-14	68467	Gear	1
8-24	67722	Ring	8	19-1	68468	Spacer	1
8-24	67722	Ring	12	18-13	68473	Sleeve	1
7-13	67733	Sleeve	1	20-7	68542	Spring	1
14-9	67742	Bushing	1	14-6	68545	Washer Assy.	1
16-1	67746	Gasket	2	14-11	68553	Gear	1
34-29	67754	Washer	1	17-1	68556	Gasket	1
18-17	67762	Dowel	2	14-8	68563	Bushing	1
13-1	67782	Shaftgear Assy.	1	15-3	68565	Gear	1
34-14	67784	Guide	5	15-3	68565	Gear	2
34-15	67785	Guide	5	14-7	68568	Hub Assy.	1
28-1	67787	Tube Assy.	6	14-10	68572	Slinger	1
34-30	67797	Nut	1	17-5	68590	Bushing	1
8-19	67914	Gasket	1	44-10	68604	Clip	2
20-11	67940	Nut	1	44-10	68604	Clip	3
20-6	67981	Plunger	1	50-24	68604	Clip	4
37-17	68018	Washer	6	15-17	68694	Adapter Assy.	1
10-1	68030	Gear Assy.	1	26-12	68795	Cover Assy.	6
10-2	68032	Bushing	1	34-13	68830	Spring	5
10-3	68033	Bushing	1	45-15	68874	Cushion	4
10-14	68041	Bushing	1	45-14	68875	Retainer	2
10-17	68042	Gear	1	36-2	69080	Spacer	1
10-5	68044	Washer	AR	16-3	69174	Breather	1
8-4	68087	Plate	1	13-6	69177	Shaftgear Assy.	1
35-9	68094	Diffuser	1	45-16	69208	Coupling	1
34-6	68099	Gear Assy.	1	45-16	69208	Coupling	2
32-3	68106	Flange	2	23-6	69235	Ring	6
37-7	68127	Gasket	AR	9-5	69258	Gear	1
39-1	68129	Gasket	1	24-6	69260 P10	Insert	12
39-1	68129	Gasket	2	7-14	69265	Sleeve	1
34-5	68135	Nut	8	8-25	69267	Sleeve	1
35-6	68146	Stud	6	7-12	69273	Housing Assy.	1
19-8	68156	Shaft	1	10-12	69276	Adapter Assy.	1
19-7	68161	Shaft	1	10-10	69278	Shim	1
31-1	68172	Gasket	1	12-35	69286	Annulus	1
37-8	68182	Adapter Assy.	1	10-11	69291	Adapter Assy.	1

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
11-8	69335	Plug	1	30-7	71066	Clip	2
12-41	69335	Plug	1	30-8	71067	Clip Assy.	1
31-8	69335	Plug	1	17-6	71124	Bushing	1
4-10	69433	Roller	10	17-6	71124	Bushing	2
28-6	69531	Plate	12	28-7	71133	Nut	24
15-2	69565	Sleeve	1	28-8	71134	Nut	24
50-15	69565	Sleeve	1	38-1	71158	Housing Assy.	1
15-1	69566	Shaft Assy.	1	45-2A	71163	Magneto	1
50-14	69567	Coupling Assy.	1	10-9	71210	Gasket	1
15-6	69569	Washer	1	20-10	71226	Screw	1
15-6	69569	Washer	2	7-25	71235	Dowel	2
15-7	69570	Ring	2	38-25	71253	Adapter Assy.	1
15-7	69570	Ring	1	5-1	71304	Camshaft Assy.	1
1-11	69580	Dowel	2	12-5	71341	Bushing	1
31-3	69602	Connection	6	41-11	71363	Gasket	1
33-7	69603	Hose	6	25-2	71381	Valve	6
12-42	69621	Plug	1	36-12	71430	Nut	1
4-8	69641	Dowel	3	45-1A	71435	Magneto	1
23-2	69650	Pin	6	45-1	71436	Magneto	1
12-37	69658	Pin	1	45-1A	71437	Magneto	1
5-4	69662	Gear	1	45-1A	71438	Magneto	1
1-4	69679	Stud	4	28-5	71481	Ring	6
34-12	69683	Tube	1	39-2	71529	Carburetor	1
36-14	69684	Washer	1	23-1	71545	Piston	6
33-3	69690	Pipe	2	26-1	71549	Washer	12
33-3	69691	Pipe	2	39-5	71554	Elbow Assy.	1
33-3	69692	Pipe	2	23-4	71556	Ring	12
25-11	69697	Cap	6	40-4	71559	Block	1
2-4	69701	Bracket	2	46-1C	71571	Kit, Assy.	1
7-5	69727	Gear Assy.	1	46-1B	71574	Kit, Assy.	2
7-11	69733	Housing Assy.	1	39-2	71607	Carburetor	1
8-1	69735	Gear Assy.	1	30-2	71610	Hook	4
1-19	69796	Dowel	8	30-3	71611	Retainer	4
15-8	69811	Gear	1	15-19	71616	Bushing	1
15-11	69812	Shaft	1	1-1	71624	Cr'case. Assy.	1
41-1	69828	Gasket	1	37-8	71704	Adapter Assy.	1
4-4	69843	Tube	1	39-2	71705	Carburetor	1
1-20	69861	Dowel	1	37-5	71758	Retainer	1
8-11	69876	Cage Assy.	1	36-5	71759	Spacer	AR
36-6	69883	Impeller	1	36-5	71759-1	Spacer	AR
36-7	69895	Bushing	1	36-5	71759-2	Spacer	AR
36-8	69896	Bushing	1	36-4	71761	Washer	1
36-9	69897	Rivet	6	20-5	71774	Cover	1
37-1	69898	Bearing	1	45-2A	71801	Magneto	1
16-3	69907	Breather	1	9-2	71802	Shaft Assy.	1
30-1	69947	Baffle Assy.	4	7-4	71803	Gear Assy.	1
35-2	70315	Housing Assy.	1			(Red.)	
36-3	70326	Shaftgear	1	38-1A	71864	Housing Assy.	1
2-1	70337	Bracket Assy.	2	39-2	71880	Carburetor	1
50-33	70338	Spacer	2	24-3	71894	Seat	6
51-1	70338	Spacer	2	24-2	71895	Seat	6
50-34	70405	Retainer	2	4-17	71903	Bushing	20
51-3	70405	Retainer	2	4-9	71904	Ct'wt. Assy.	5
4-10	70416	Roller	2	4-9	71905	Ct'wt. Assy.	1
4-1	70420	Cr'shaft. and Ct'wt. Assy.	1	4-11	71906	Ring	24
				4-12	71907	Washer	24
39-2	70424	Carburetor	1	51-7	71911	Clamp	6
2-5	70446	Bracket	2	38-1C	71917	Housing Assy.	1
2-9	70451	Bracket Assy.	1	44-11	71925	Oil Filter	1
2-6	70452	Bracket Assy.	1	37-8	71962	Adapter Assy.	1
20-2	70460	Washer	1	18-4	71999	Retainer	1
46-1A	70497	Kit, Assy.	2	31-2	72002	Sump Assy.	1

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
38-9	72008	Shaft	1	41-20	72614	Bracket	1
38-10	72009	Valve	1	41-19	72615	Solenoid Valve	1
38-4	72014	Bushing	2	44-16	72615	Solenoid Valve	1
38-13	72015	Stop	1	44-14	72616	Solenoid Valve	1
38-21	72016	Screw	1	41-17	72617	Solenoid Valve	1
38-20	72017	Spring	1	26-4	72626	Shaft	12
38-15	72018	Lever	1	37-8	72723	Adapter Assy.	1
41-16	72021	Nozzle Assy.	1	45-2A	72739	Magneto	1
16-2	72031	Tube & Plate Assy.	1	20-3	72785	Oil Filter	1
				7-3	72879	Gear Assy.	1
44-4	72036	Clip	1	24-5	72897	Guide	6
45-2	72038	Magneto	1	15-4	72932	Shaft	1
25-9	72050	Key	12	41-2	73032	Gasket	1
10-19	72053	Gasket	1	3-1	73048	Bearing	8
5-5	72078	Lockplate	2	3-1	73049	Bearing	8
44-17	72131	Tee Assy.	1	3-2	73061	Body	12
14-19	72139	Dowel	3	18-2	73087	Body Assy.	1
43-2	72147	Tubing Assy.	1	18-1	73090	Pump Assy.	1
43-1	72148	Tubing Assy.	1	17-2	73093	Cover Assy.	1
7-23	72157	Bushing	1	17-2	73094	Cover Assy.	1
7-24	72158	Bushing	1	25-2	73111	Valve	6
43-3	72162	Clip	1	25-4	73112	Seat	6
43-10	72162	Clip	1	25-7	73115	Seat	6
50-26	72162	Clip	1	41-7	73119	Elbow	1
43-3	72163	Clip	1	25-1	73129	Valve	6
43-4	72164	Spacer	1	41-3	73229	Pump Assy.	1
43-11	72164	Spacer	1	50-21	73245	Eyelet	12
43-5	72165	Bushing	2	29-2	73346	Flange	6
44-5	72178	Clip	1	33-2	73346	Flange	6
15-15	72182	Ring	1	27-1	73434	Rod Assy.	12
23-3	72198	Plug	12	27-1	73435	Rod Assy.	12
44-3	72201	Grommet	1	27-1	73436	Rod Assy.	12
22-6	72218	Bearing	12	42-1	73612	Gasket	1
50-4	72250	Spring Assy.	12	42-18	73751	Clip	1
50-2	72262	Spring Assy.	12	50-31	73751	Clamp	2
50-3	72263	Terminal	12	3-5	73772	Nozzle Assy.	6
38-11	72281	Screw	2	4-5	73810	Bushing	12
24-11	72343	Stabilizer	6	45-18	73820	Gasket	2
24-12	72344	Stabilizer	6	23-5	73857	Ring	6
51-12	72351	Screw	8	42-3	73908	Nozzle	1
41-5	72376	Elbow	2	41-4	73909	Fuel Injector	1
41-6	72377	Elbow	1	42-33	73909	Injector	1
42-5	72377	Elbow	1	44-14	73910	Solenoid Assy.	1
42-13	72377	Elbow	1	41-18	73911	Solenoid Assy.	1
10-20	72378	Cover	1	44-22	73912	Hose Assy.	1
14-1	72384	Shaft	1	43-2	73914	Tubing Assy.	1
43-16	72387	Hose Assy.	1	43-1	73915	Tubing Assy.	1
42-24	72388	Hose Assy.	1	48-1	73926	Cable Assy.	1
44-23	72388	Hose Assy.	1	47-1	73928	Cable Assy.	1
38-8	72390	Nozzle	1	35-2	73939	Housing Assy.	1
21-17	72412	Cover	1	42-15	73942	Hose	1
44-22	72420	Hose Assy.	1	42-4	73944	Elbow	1
35-1	72437	Gasket	1	42-2	73945	Nozzle Assy.	1
9-1	72450	Shaft	1	24-13	73946	Stabilizer	6
23-5	72454	Ring	6	37-8	73968	Adapter Assy.	1
4-7	72536	Bushing	1	42-16	73971	Clip	1
34-27	72548	Gear	1	23-1	73976	Piston	6
34-28	72549	Washer	1	23-5	73998	Ring	6
23-1	72578	Piston	6	42-26	74053	Strut	1
10-6	72588	Shaft Assy.	1	51-13	74053	Vent Shield	2
12-3	72599	Bushing	1	42-29	74055	Bracket	1
44-15	72613	Bracket	1	42-32	74056	Gasket	5

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
NUMERICAL INDEX PARTS SECTION - GSO-480, IGSO-480 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
42-9	74069	Bracket	1	34-9	75261	Shaft Assy.	1
42-12	74070	Elbow	1	1-3	75302	Dowel	3
42-25	74071	Hose	1	1-1	75355	Cr'case. Assy.	1
42-11	74072	Modulator	1	24-1	75393	Cylinder Assy.	6
56-13	74073	Vent Shield	2	18-18	75516	Shaft	1
42-28	74079	Support	1	42-34	75568	Housing Assy.	1
34-26	74126	Shaftgear	1	42-27	75570	Support	1
42-10	74133	Modulator Assy.	1	12-1	75572	Housing Assy.	1
12-1	74135	Housing Assy.	1	32-1	75576	Pipe	1
12-1	74137	Housing Assy.	1	8-17	75649	Spacer	12
8-22	74203	Lockplate	1	45-10	75695	Clamp	4
8-23	74204	Nut	1	27-2	75775	Shroud Assy.	12
40-13	74225	Nipple Assy.	6	24-5	75838	Guide	6
23-4	74241	Ring	12	45-3	75900	Magneto	1
23-1	74242	Piston	6	45-3A	75901	Magneto	1
8-25	74337	Sleeve	1	50-22	75941	Tape	1
49-1	74403	Cable Assy.	1	37-3	75968	Seal	1
40-9	74410	Clamp	12	50-19	76072	Plate	2
34-22	74412	Plate	1	24-1	76369	Cylinder Assy.	6
42-17	74458	Hose	1	24-1	76480	Cylinder Assy.	6
26-14	74494	Plate	6	50-5	76718	Grommet	12
36-11	74529	Lockwasher	1	50-6	76719	Ferrule	12
36-1	74535	Impeller & Shaft Assy.	1	50-7	76720	Nut	12
				50-8	76721	Elbow	8
36-10	74536	Spacer	1	50-9	76722	Elbow	4
40-10	74537	Support Block	12	50-10	76723	Cable	471 in.
38-19	74599	Plate	1	50-11	76724	Sleeve	48 in.
38-1B	74604	Housing & Valve Assy.	1	50-12	76725	Sleeve	391 in.
				50-16	76726	Sleeve	12
38-1D	74607	Housing & Valve Assy.	1	50-17	76728	Sleeve	12
				50-18	76729	Ring	12
42-19	74639	Filter	1	50-23	76734	Strap	13
42-20	74640	Bracket	1	50-29	76735	Bracket	1
11-14	74646	Nut	8	50-20	76750	Grommet	2
22-4	74646	Nut	12	50-13	76923-72S 110-75	Lead	2
22-3	74667	Bolt	12	50-14	76923-48S 70-75	Lead	8
23-4	74673	Ring	12	50-15	76923-48S 110-75	Lead	2
23-4	74673	Ring	18	50-38	77156	Protector	12
25-2	74802	Valve	6	9-7	77454	Slinger	1
7-1	74822	Gasket	1	50-1	77619	Cable Assy.	1
11-13	74855	Bolt	8	22-3	78027	Rod Bolt	12
34-2	75026	Adapter Assy.	1	22-1	78028	Rod Assy.	6
24-1	75215	Cylinder Assy.	6	3-3	78289	Plunger Assy.	12
4-1	75259	Cr'shaft & Ct'wt. Assy.	1	3-3	78290	Plunger Assy.	12

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

VENDOR ACCESSORIES

SECTION IX

This section has been compiled to enable field personnel to more efficiently arrive at adequate parts coverage for vendor supplied accessories.

An asterisk (*) has been used to point out those parts stocked by Lycoming. Note that only Lycoming stocked parts have been called out on the illustrations. The exception to this will be found on the exploded views of Bendix Scintilla magnetos. Since Lycoming does stock most of the magneto parts, all parts have been listed.

Most vendor accessory parts lists are available from Service Department, Lycoming Division, Williamsport, Pa. 17701.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST
 BENDIX PRESSURE CARBURETOR PS-7BD, PSH-78D
 BENDIX SCINTILLA P/N'S (PS-7BD)-391663-7, 391714-4, 391750-4
 (PSH-7BD)-391624-20, 391677-6
 LYCOMING P/N'S (PS-7BD)-71607, 71880 and 71705
 (PSH-7BD)-70424, 71529

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	P10666						WASHER, Non-Metallic	1	*
2	365379						SPRING	1	*
3	365533						WASHER, Non-Metallic	1	*
4	365598						DIAPHRAGM ASSEMBLY, Discharge nozzle	1	*
5	366264						DIAPHRAGM ASSEMBLY, Idle valve	1	*
6	366290						SETSCREW	1	*
7	385027						VALVE ASSEMBLY, Air flow enrichment needle	1	*
8	366633						DIAPHRAGM ASSEMBLY, Regulator, inner	1	*
9	384737						COLLAR	1	*
10	384755						HOLDER, Spring, diaphragm regulator	1	*
11	385026						DIAPHRAGM ASSEMBLY, Air flow enrichment valve	1	*
12	391613A						CONTROL ASSEMBLY, Automatic mixture	1	*

* - Parts stocked by Lycoming.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

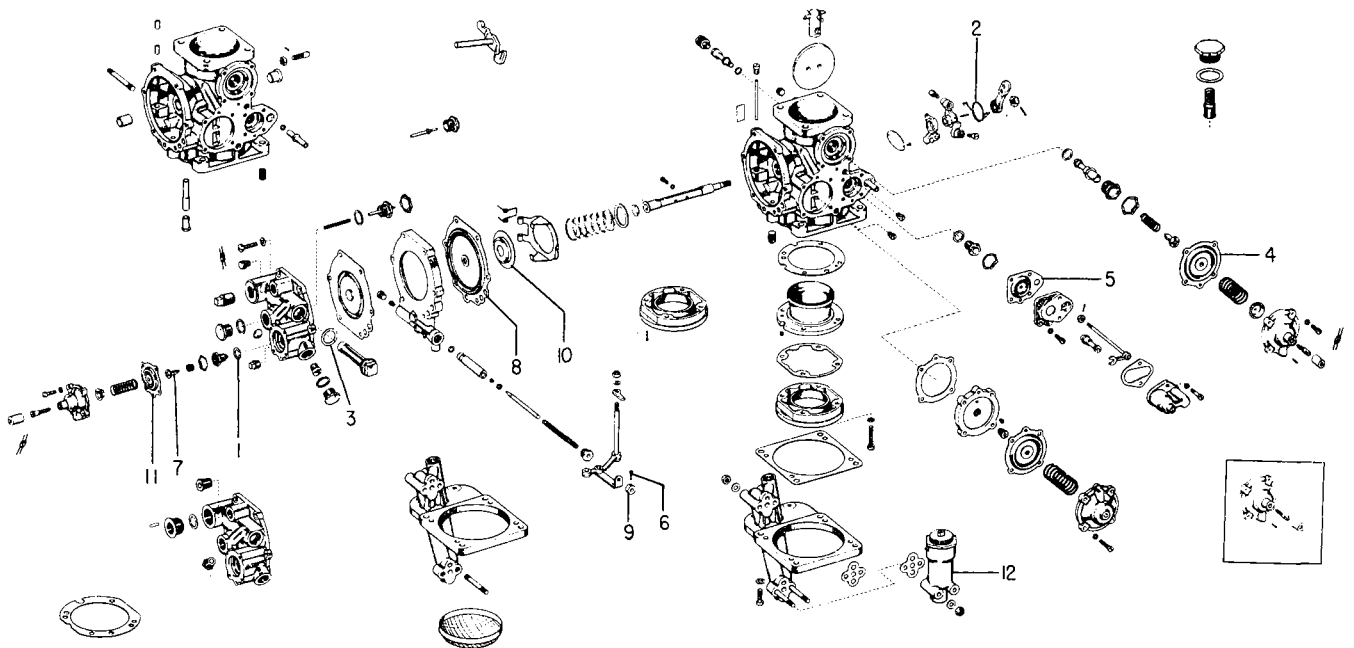


Figure 53. Exploded View of Model PSH-7BD Carburetor

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

BENDIX FUEL INJECTOR - MODEL RS-10FB1

BENDIX P/N 2524014-6

LYCOMING P/N 73909

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	P19821						WASHER, Spring	1	*
2	177718						WASHER, Spring	1	*
3	2520241						VALVE, Mixture control	1	*
4	2520308						BUSHING, Sleeve	2	*
5	2520387						SPRING, Helical, extension	1	*
6	2520689						BELLOWS AND NEEDLE ASS'Y., See figure 55	1	*
7	2520708						DIAPHRAGM ASSEMBLY, See figure 55	1	*
8	2520709						GASKET, See figure 55	1	*
9	2520808						FITTING, Servo tank return, See figure 55	1	*
10	2521918						BUSHING, Sleeve	2	*
11	2524040A						CONTROL ASSEMBLY, Automatic mixture	1	*
12	2524040B						CONTROL ASSEMBLY, Automatic mixture	1	*
13	315S5						PACKING, Preformed	1	*
14	367386						PACKING, Preformed	1	*
15	367406						SCREW, Diaphragm	1	*
16	367433						SPRING, Helical, compression	1	*
17	367434						SPRING, Helical, compression	1	*
18	367507						STRAINER ASSEMBLY	1	*
19	367760						DIAPHRAGM	1	*
20	367791						WASHER, Shim, 0.003 in. thick	AR	*

* - Parts stocked by Lycoming.

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

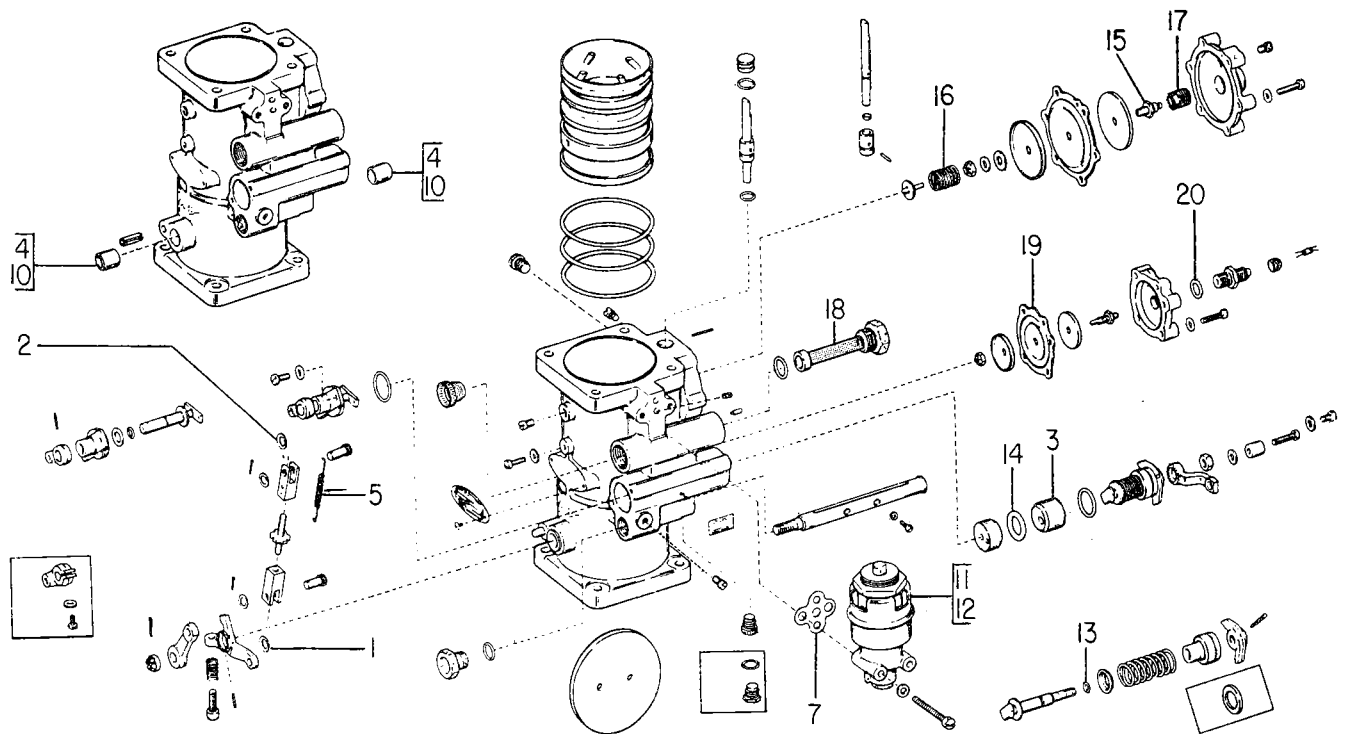


Figure 54. Exploded View of Model RS10FB1 Fuel Injector

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

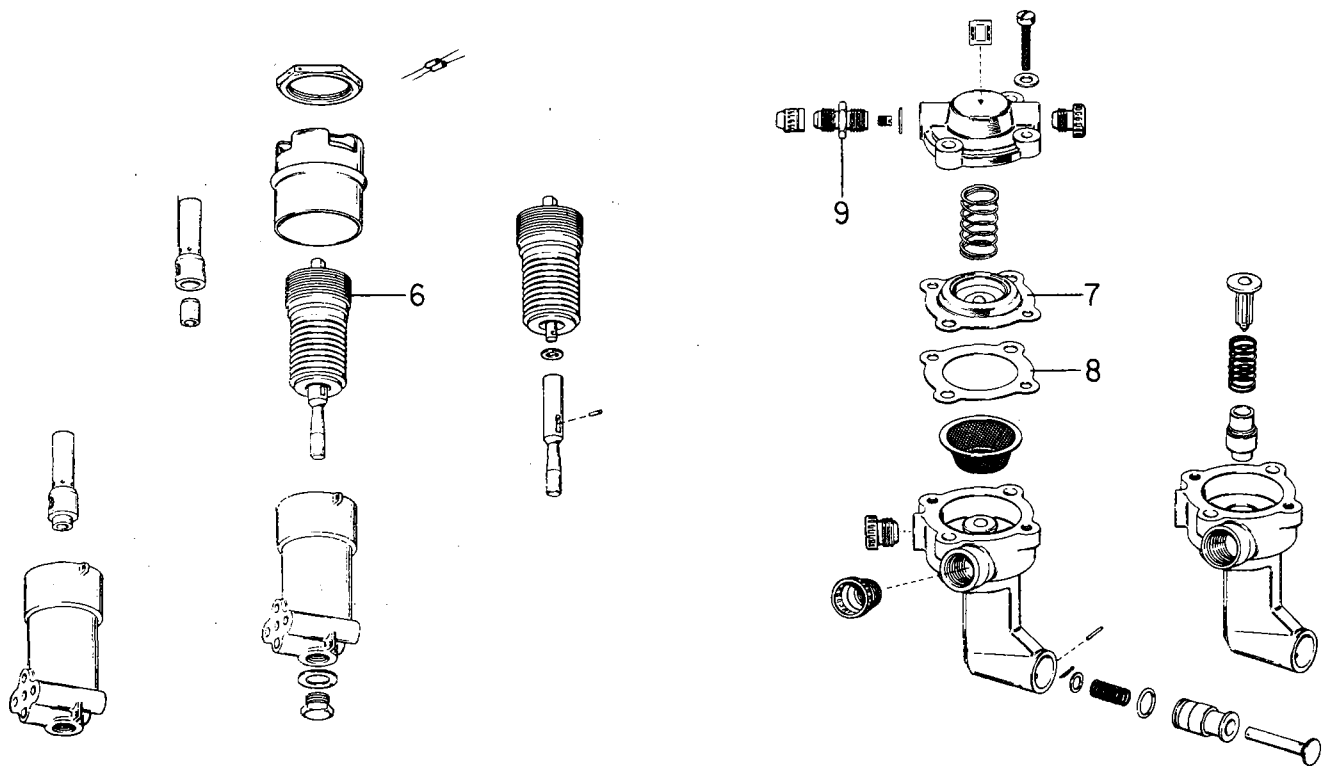


Figure 54A. Automatic Mixture Control and Air Bleed Nozzle Assemblies

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

BENDIX SCINTILLA MAGNETOS	S6LN-20	S6RN-21
BENDIX SCINTILLA P/N'S	10-51365-33	10-51365-34
LYCOMING P/N'S	71436	71435

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	10-50727Y						HOUSING, Magneto	1*	
2	10-157134						PLUG, Ventilator, magneto housing	1*	
3	10-160886						COIL	1*	
4	10-50765						CLAMP, Coil core	2*	
5	10-35937-8						SCREW WITH LOCKWASHER, Coil core clamp	2*	
6	10-81806						BEARING, Ball, magnet, drive end	1*	
7	2-161-1						WASHER, Flat, 0.0025 in. thick	AR	
	2-161-2						WASHER, Flat, 0.004 in. thick	AR	
	2-161-3						WASHER, Flat, 0.005 in. thick	AR	
	2-161-4						WASHER, Flat, 0.008 in. thick	AR	
	2-161-5						WASHER, Flat, 0.010 in. thick	AR	
	2-161-6						WASHER, Flat, 0.012 in. thick	AR	
	2-161-7						WASHER, Flat, 0.015 in. thick	AR	
8	10-52945						MAGNET, Rotating	1*	S6LN-20
	10-52948						MAGNET, Rotating	1*	S6RN-21
9	10-90788-5						KEY, Woodruff, small gear	1*	
10	10-157120Y						GEAR, Small	1*	
11	10-3503						WASHER, Plain (breaker end bearing)	1	
12	2-199-1						WASHER, Flat, 0.0025 in. thick	AR	
	2-199-2						WASHER, Flat, 0.004 in. thick	AR	
	2-199-3						WASHER, Flat, 0.005 in. thick	AR	
	2-199-4						WASHER, Flat, 0.008 in. thick	AR	
	2-199-5						WASHER, Flat, 0.010 in. thick	AR	
	2-199-6						WASHER, Flat, 0.012 in. thick	AR	
13	2-202						BEARING, Ball (magnet breaker end)	1	
14	10-88543-1						CAM, Breaker	1*	
15	10-51354						WASHER, Plain, cam screw	1*	
16	10-35936-10						SCREW WITH LOCKWASHER, Cam	1*	
17	10-52917						HOUSING, Distributor	1	
18	10-157135						PLUG, Distributor housing	1*	
19	10-52928						BLOCK, Distributor	1*	
20	10-50737						SPRING, Helical, high tension cable contact	6*	
21	10-163374						STRIP, Felt, electrode side	1*	
22	10-50752						WASHER, Felt, ring side	1*	
23	10-102083						SCREW WITH PLAIN AND LOCKWASHER (Dist. block)	3*	
24	10-157197						GEAR, Distributor large	1*	
25	10-50753						WASHER, Plain (Dist. gear axle)	1	
26	10-31282						RING, Retaining (Dist. gear axle)	1*	
27	10-160844						BRUSH, Carbon	1*	
28	10-157158						SCREW WITH LOCKWASHER (Dist. hsg. to mag. hsg.)	5*	
29	10-357094						BREAKER ASSEMBLY	1*	
30	10-14268						WASHER, Plain, contact ass'y. securing	1*	
31	10-35936-6						SCREW WITH LOCKWASHER, Contact ass'y. securing (Capacitor)	2*	
32	10-51676						CAPACITOR	1*	
33	10-102090						SPRING, Ground terminal	1*	
34	2-194						WASHER, Lock, ground term. screw, not illustrated	1	
35	10-16476						SCREW, Fill. hd. , ground term. , not illustrated	1*	
36	10-52939Y						COVER, Breaker	1*	
37	10-9354						SCREEN, Ventilator (breaker cover)	1*	
38	10-116197						RETAINER, Ventilator screen	1	
39	10-32438						WASHER, Ventilator shield	1	
40	10-9967						SHIELD, Ventilator, breaker cover	1	
41	10-157161						SCREW WITH LOCKWASHER, 0.438 in. long (breaker cover)	4*	
42	10-25738						BEARING, Sleeve (drive shaft)	1*	
43	10-27448						OIL SEAL, Drive shaft	1*	
44	10-51678						DEFLECTOR, Oil (drive shaft)	1*	

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

BENDIX SCINTILLA MAGNETO		S6LN-20	S6RN-21
BENDIX SCINTILLA	P/N'S	10-51365-33	10-51365-34
LYCOMING	P/N'S	71436	71435

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
45	10-4093	WASHER, Plain (drive shaft nut)	1*	S6LN-20
46	10-163151	NUT, Drive shaft	1*	S6LN-20
47	10-56513	PIN, Stop, impulse coupling	2*	S6RN-21
48	10-89137	IMPULSE COUPLING, 35° lag	1	S6RN-21
49	10-59439	CAM, Impulse coupling	1	S6RN-21
50	10-51324	SPRING, Main impulse coupling	1	S6RN-21
51	10-76232	BODY, Impulse coupling	1*	S6RN-21
52	10-52307	WASHER, Keyed (impulse coupling)	1*	S6RN-21
53	10-3793	WASHER, Lock, drive shaft nut	1	S6RN-21
54	10-51643	NUT, Drive shaft	1	S6RN-21
55	10-90751-19	PIN, Cotter, drive shaft	1*	
56	10-357012	PLATE, Identification	1	
57	10-90500-5	SCREW, Drive (identification plate)	2*	

* - Parts stocked by Avco Lycoming.

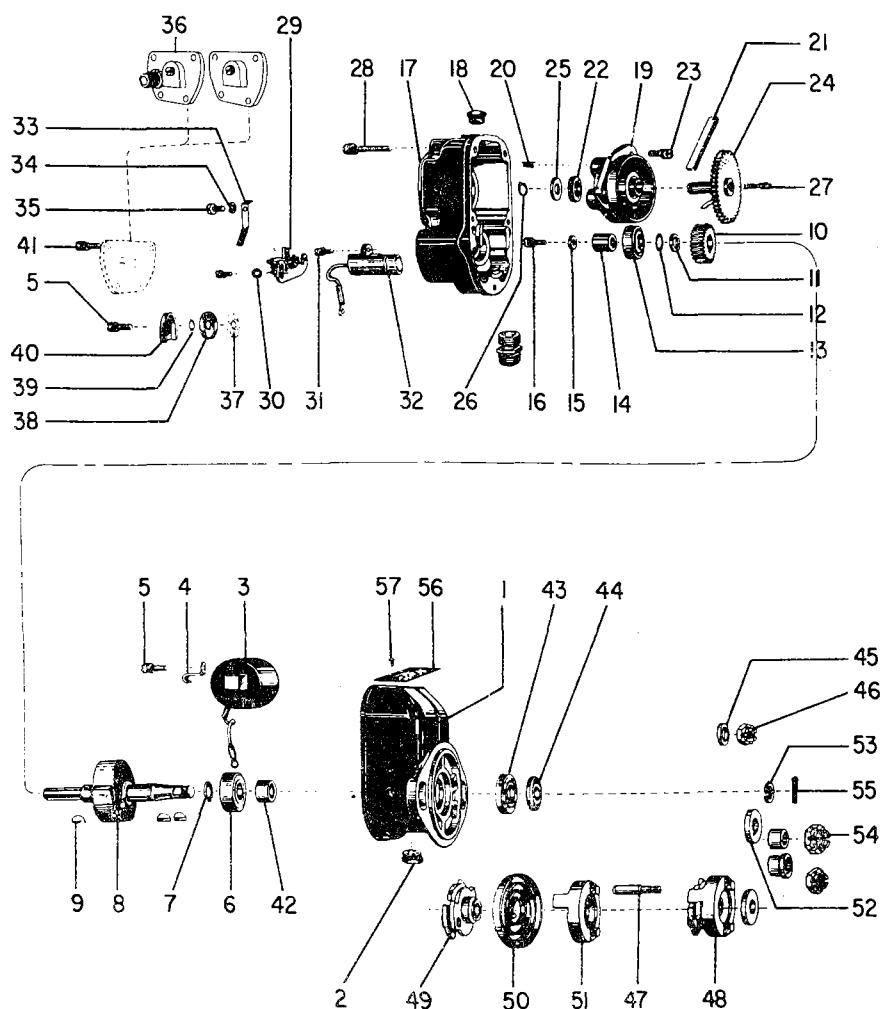


Figure 55. Exploded View of -20 Series Magneto

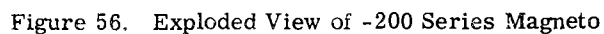
LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

BENDIX SCINTILLA MAGNETO	S6LN-204	S6RN-200
BENDIX SCINTILLA P/N'S	10-163050-1	10-163010-1
LYCOMING P/N'S	72038	71163

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	10-160858						HOUSING, Magneto	1	
2	10-157134						PLUG, Ventilator magneto housing	1*	
3	10-163172						COIL	1*	
4	10-50765						CLAMP, Coil core	2	
5	10-51667						SCREW WITH LOCKWASHER, Coil core clamp	2	
6	10-81806						BEARING, Ball, magnet drive end	1*	
7	2-161-1						WASHER, Flat, 0.0025 in. thick	AR	
	2-161-2						WASHER, Flat, 0.004 in. thick	AR	
	2-161-3						WASHER, Flat, 0.005 in. thick	AR	
	2-161-4						WASHER, Flat, 0.008 in. thick	AR	
	2-161-5						WASHER, Flat, 0.010 in. thick	AR	
	2-161-6						WASHER, Flat, 0.012 in. thick	AR	
	2-161-7						WASHER, Flat, 0.0015 in. thick	AR	
8	10-52945						MAGNET, Rotating	1*	
9	10-90788-5						KEY, Woodruff	1*	
10	10-157120-Y						GEAR, Distributor, small	1*	
11	10-3503						WASHER, Plain, breaker end bearing	1	
12	2-199-1						WASHER, Flat, 0.0025 in. thick	AR	
	2-199-2						WASHER, Flat, 0.004 in. thick	AR	
	2-199-3						WASHER, Flat, 0.005 in. thick	AR	
	2-199-4						WASHER, Flat, 0.008 in. thick	AR	
	2-199-5						WASHER, Flat, 0.010 in. thick	AR	
	2-199-6						WASHER, Flat, 0.012 in. thick	AR	
13	2-202						BEARING, Ball - magnet breaker end	1*	
14	10-88543-5						CAM, Breaker	1*	
15	10-51354						WASHER, Plain	1*	
16	10-53114						SCREW WITH LOCKWASHER, Cam	1*	
17	10-106498						HOUSING, Distributor	1	
18	10-157135						PLUG, Distributor housing	1*	
19	10-52958						BLOCK, Distributor	1*	
20	10-50737						SPRING, Helical	6*	
21	10-163374						STRIP, Felt, gear side	1*	
22	10-50752						WASHER, Felt, ring side	1*	
23	10-102083						SCREW WITH LOCKWASHER, and plain washer	3*	
24	10-157197						GEAR, Distributor, large	1*	
25	10-50753						WASHER, Plain, distributor gear axle	1	
26	10-31282						RING, Retaining, distributor gear axle	1*	
27	10-160844						BRUSH, Carbon	1*	
28	10-157158						SCREW WITH LOCKWASHER (Dist. Hsg. to Mag. Hsg.)	5*	
29	10-163171						CONTACT ASSEMBLY R. H.	1*	
	10-163179						CONTACT ASSEMBLY L. H.	1*	S6LN-200
30	10-7611						WASHER, Plain	2	
31	10-51663						SCREW WITH LOCKWASHER (Capacitor to brkr. cover)	4*	
32	10-163194						INSULATION SHEET	1	S6RN-200
33	10-157241						LEAD, Retard assembly	1*	S6RN-200
34	10-163131						CAPACITOR	1*	
35	10-35935-5						SCREW WITH LOCKWASHER (Capacitor to brkr. cover)	2	
36	10-163136						COVER, Breaker	1*	
37	10-157160						SCREW WITH LOCKWASHER (Breaker cover)	4*	
38	10-163384						DISK	1*	S6LN-204
39	10-163177						NUT, Cap	1*	S6LN-204
40	10-88514-3						BEARING, Sleeve, drive shaft	1*	
41	10-27448						OIL SEAL, Drive shaft	1*	
42	10-51678						DEFLECTOR, Oil, drive shaft	1*	
43	10-4093						WASHER, Drive shaft nut	1*	
44	10-163151						NUT, Drive shaft	1*	
45	10-90751-19						PIN, Cotter, drive shaft nut	1*	
46	2-782-2						PLATE, Identification	1	

BENDIX SCINTILLA MAGNETO	S6LN-204	S6RN-200
BENDIX SCINTILLA P/N'S	10-163050-1	10-163010-1
LYCOMING P/N'S	72038	71163

* - Parts stocked by Lycoming.



LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

BENDIX SCINTILLA MAGNETO	S6LN-1209	S6RN-1227
BENDIX SCINTILLA P/N'S	10-349310-2	10-349370-2
LYCOMING P/N'S	75900	75901

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
1	10-35937-24	SCREW WITH LOCKWASHER, Cover securing	1	
2	10-90405-5	NUT	4*	
3	10-90700-5	WASHER	4*	
4	10-349393-2	COVER, Magneto	1*	
5	10-35935-6	SCREW, Capacitor, securing	2*	
6	10-349276	CAPACITOR	1*	
7	10-349263	PACKING, Capacitor mounting	1	
8	10-349221	STUD, Double end, dist. block securing	4*	
9	10-78655	WASHER, Stud securing	4*	
10	10-92815-37	RING, Retaining, gear axle	1*	
11	10-349511	WASHER, Gear axle	1	
12	10-50752	WASHER, Felt, gear axle	1*	
13	10-349212	BLOCK, Distributor (6 cyl.)	1*	
14	10-50737	SPRING, Helical, dist. block	6*	
15	10-163374	STRIP, Felt, dist. block	1*	
16	10-349237	GEAR ASSEMBLY, Large (6 cyl.)	1*	
17	10-160844	BRUSH, Carbon	1*	
18	10-35936-7	SCREW, Contact ass'y., securing	2*	
19	10-14268	WASHER, Contact ass'y., securing screw	1*	
20	10-357063	CONTACT ASSEMBLY, R. H. (Tungsten)	1*	S6LN-1209
	10-357091	CONTACT ASSEMBLY, L. H. (Tungsten)	1*	S6RN-1227
21	10-35936-10	SCREW, Cam securing	1*	
22	10-51354	WASHER, Cam securing screw	1*	
23	10-349243-1	CAM (4 and 6 cyl.)	1*	
24	10-349326	STRIP, Fish paper	1*	
25	10-349219	WEDGE, Coil	2	
26	10-349271	COIL, Magneto (high tension)	1*	
27	10-90751-19	PIN, Cotter	1*	
28	10-163151	NUT, Castellated, drive shaft	1*	S6LN-1209
	10-51643	NUT, Castellated, drive shaft	1*	S6RN-1227
29	10-3793	WASHER, Lock, drive shaft nut	1	S6RN-1227
30	10-90788-5	KEY, Woodruff, drive shaft	1*	
31	10-4093	WASHER, Drive shaft nut	1*	S6LN-1209
	10-52307	WASHER, Drive shaft nut	1*	S6RN-1227
32	10-349369	IMPULSE COUPLING	1*	S6RN-1227
33	10-76232	BODY, Impulse coupling	1*	S6RN-1227
34	10-51324	SPRING, Main impulse coupling	1*	S6RN-1227
35	10-349357-4	CAM ASSEMBLY, Impulse coupling	1*	S6RN-1227
36	10-92815-62	RING, Retaining, drive shaft end	1*	
37	10-349328	WASHER, Flat, flange	1*	
38	10-349249	WASHER, Bowd, flange	1	
39	10-349248	SLINGER, Oil	1*	
40	10-349279	SCREW, Flange securing	3*	
41	10-53397	WASHER, Flange securing screw	3*	
42	10-349392-2	FLANGE, Short round, without stop pins	1*	S6LN-1209
	10-349392-5	FLANGE, Short round, with 2 stop pins	1	S6RN-1227
43	10-349438-R	STOP PIN, Flange	2	S6RN-1227
44	10-353056	BEARING, Magneto drive end	1*	
45	10-359247	PLATE, Bearing retaining	1*	
46	10-349351-1	MAGNET, Rotating	1*	S6LN-1209
	10-349351-2	MAGNET, Rotating	1*	S6RN-1227
47	10-349242	GEAR, Distributor, small	1*	
48	10-157134	VENTILATOR	1*	
49	10-157135	PLUG, Timing	1*	
50	10-90500-8	SCREW, Identification plate securing	2	
51	10-70616	PLATE, Identification	1	
52	10-353060	BEARING, Roller	1*	
53	10-349394-3	HOUSING, Magneto	1*	

* - Parts stocked by Lycoming.

This exploded view diagram illustrates the components of a Bendix brake assembly. The central component is the brake drum, labeled 26, which features the 'Bendix' logo. Surrounding it are various parts including the brake shoe (1), return spring (2), anchor pin (3), anchor (4), adjuster (5), adjuster screw (6), adjuster pin (7), adjuster spring (8), adjuster pin (9), adjuster pin (10), adjuster pin (11), adjuster pin (12), adjuster pin (13), adjuster pin (14), adjuster pin (15), adjuster pin (16), adjuster pin (17), adjuster pin (18), adjuster pin (19), adjuster pin (20), adjuster pin (21), adjuster pin (22), adjuster pin (23), adjuster pin (24), adjuster pin (25), adjuster pin (27), adjuster pin (28), adjuster pin (29), adjuster pin (30), adjuster pin (31), adjuster pin (32), adjuster pin (33), adjuster pin (34), adjuster pin (35), adjuster pin (36), adjuster pin (37), adjuster pin (38), adjuster pin (39), adjuster pin (40), adjuster pin (41), adjuster pin (42), adjuster pin (43), adjuster pin (44), adjuster pin (45), adjuster pin (46), adjuster pin (47), adjuster pin (48), adjuster pin (49), adjuster pin (50), adjuster pin (51), adjuster pin (52), adjuster pin (53).

9-8A

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LYCOMING PARTS CATALOG

GSO and IGSO-480 SERIES

SECTION X

SERVICE REPLACEMENT SET SECTION

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name	
71181-1	SEAL AND GASKET SET	GSO and IGSO-480 Series
	Consisting of:	
1	AN900-28	Gasket, Annular
2	AN123908	Ring, Oil Seal
1	AN124001	Seal
2	AN4047-1	Gasket, Accessory Drive
3	STD-111	Gasket, Annular
1	STD-208	Seal, Oil
1	STD-213	Seal, Oil
1	STD-294	Gasket, Annular
12	STD-295	Gasket, Annular
2	STD-351	Gasket, Annular
1	STD-547	Seal, Oil
1	72182	Ring, Oil Seal
2	STD-994	Ring, Oil Seal
1	STD-1002	Ring, Oil Seal
1	STD-1006	Ring, Oil Seal
1	STD-1549	Ring, Oil Seal
1	STD-1654	Ring, Oil Seal
1	STD-1702	Seal, Oil
1	STD-1708	Seal, Oil
6	STD-1733	Ring, Oil Seal
2	STD-1753	Ring
1	STD-1854	Washer, Oil Seal
1	1691-C	Gasket, Fuel Pump
2	8313	Gasket, Vacuum Pump
1	20415	Gasket, Vacuum Pump
1	40507	Seal, Thrust Bearing
2	62224	Gasket, Magneto
6	71973	Gasket, 2 Bolt Flange
24	62922	Seal, Shroud Tube
12	66732	Gasket-Valve Rocker Shaft Cover
6	67193	Gasket-Rocker Box Cover
1	67633	Gasket-Starter Drive Pad
1	67678	Gasket-Super. Oil Seal Retainer
1	71189	Box, Set-Up
1	67204	Lockplate, Crankshaft Gear
2	72078	Lockplate, Camshaft Gear
1	68288 and 74203	Lockplate, Pinion Cage Nut
1	71817	Lockplate, Pinion Cage Nut
1	67258	Super Drive Coupling
1	67642	Lockwasher, Acc'y. Drive Shaft
1	74529	Lockwasher, Super. Impeller Nut
2	67708	Gasket, Starter Drive
1	74822	Gasket, Reduction Gear Housing
2	67746	Gasket, Accessory Housing Breather
1	72437	Gasket, Super. Housing
1	67914	Gasket, Oil Retaining Housing
2	68127	Gasket, Super. Housing
1	68172	Gasket, Oil Sump
1	68192	Gasket, Oil Scavenge Screen Retainer
1	68456	Gasket, Hydraulic and Oil Pump
1	68556	Gasket, Accessory Housing Cover
1	69828	Gasket
2	71210	Gasket, Governor Drive Adapter
1	71363	Gasket
6	71481	Ring, Oil Seal
1	72053	Gasket, Governor Drive
8	72075	Seal, Oil

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name		
71181-1 (cont.)	SEAL AND GASKET SET		GSO and IGSO-480 Series
	Consisting of:		
	1	74009	Tube, Mailing
	1	AN123029	Gasket
	1	67144	Gasket, Fuel Drain Valve
	1	67730	Lockplate
	2	68129	Gasket, Carburetor
73191	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	1	73114 or 76369	Cylinder Assembly, Chrome
	1	72578	Piston (5 Ring)
	1	69650	Pin, Piston
	2	72198	Plug, Piston Pin
	3	74673	Ring, Piston, Compression
	1	72454	Ring, Piston, Oil Regulating
	1	69235	Ring, Piston, Scraper
	1	73129	Valve, Intake
	1	73111 or 73875	Valve, Exhaust, Rotator
	1	68325	Seat, Valve Spring, Lower
	1	73112	Seat, Valve Spring, Lower
	2	68326	Spring, Valve, Outer
	1	73115	Seat, Valve Spring (Rotator Type)
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve Auxiliary
	2	MS-13997-3	Key, Valve (Rotator)
	2	60009	Key, Valve, Intake
	1	MS-13998-3	Cap, Valve Stem, Rotator
	2	71549	Washer, Valve Rocker, Thrust
	1	67113	Rocker Assembly, Intake Valve
	1	67112	Rocker Assembly, Exhaust Valve
	1	71195	Box Set-Up
	2	72626	Shaft, Valve Rocker
	2	66732	Gasket, Valve Rocker Shaft Cover
	2	66731	Cover, Valve Rocker Shaft
	1	67193	Gasket, Rocker Box Cover
	1	68795	Cover Assembly, Rocker Box
	8	STD-1925	Screw, Fill. Hd., Self-Locking 1/4-20 x 5/8 in. long
	4	STD-9	Nut, Plain, 1/4-28
	4	STD-160	Washer, Shakeproof Lock, 1/4 in.
	4	62922	Seal, Shroud Tube
	1	74181	Seal, Cylinder Base, Oil
73191-1	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	60009	Key, Valve, Intake
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust
	1	67113	Rocker Assembly, Intake
	1	67193	Gasket, Rocker Box Cover
	1	68325	Seat, Valve Spring, Lower
	2	68326	Spring, Valve, Outer
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve, Auxiliary
	1	68795	Cover Assembly, Rocker Box

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name		
73191-1	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	72626	Shaft, Valve Rocker
	1	69235	Ring, Piston, Scraper
	1	69650	Pin, Piston
	1	71195	Box, Set-Up
	1	71481	Seal, Cylinder Base, Oil
	2	71549	Washer, Valve Rocker Thrust
	3	74673	Ring, Piston, Compression
	2	72198	Plug, Piston Pin
	1	73111 or 73875	Valve, Exhaust (Rotator)
	1	73112	Seat, Valve Spring, Lower
	1	73114 or 76369	Cylinder Assembly
	1	73115	Seat, Valve Spring, (Rotator Type)
	1	73129	Valve, Intake
	1	73976-S	Piston
	1	73998	Ring, Piston Oil Regulating
	2	MS-13997-3	Key, Valve (Rotator)
	1	MS-13998-3	Cap, Valve Stem (Rotator)
	4	STD-9	Nut, Plain, 1/4-28
	4	STD-160	Washer, Shake Proof Lock, 1/4 in.
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	2	STD-1215	Capscrews
73191-2	CYLINDER, PISTON AND RING ASSEMBLY		
	Consisting of:		
	2	60009	Key, Valve
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust Valve
	1	67113	Rocker Assembly, Intake Valve
	1	67193	Gasket, Rocker Box Cover
	1	68325	Seat, Valve Spring Lower
	2	68326	Spring, Valve Outer
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve, Auxiliary
	1	68795	Cover Assembly, Rocker Box
	2	72626	Shaft, Valve Rocker
	1	69235	Ring, Piston, Scraper
	1	69650	Pin, Piston
	1	71195	Box, Set-Up
	1	71481	Seal, Cylinder Base, Oil
	2	71549	Washer, Valve Rocker Thrust
	3	74673	Ring, Piston, Top Compression
	2	72198	Plug, Piston Pin
	1	75393	Cylinder Assembly, Chrome, Long Reach Plugs
	1	73112	Seat, Valve Spring Lower
	1	73115	Seat, Valve Spring, Rotator Type
	1	73129	Valve, Intake
	1	73976-S	Piston (5 Ring)
	1	73998	Ring, Piston, Oil Regulating, Expander Type
	1	74803	Valve, Exhaust Rotator Type
	2	MS-13997-3	Key, Valve (Rotator Type)
	1	MS-13998-3	Cap, Valve Stem, (Rotator Type)
	4	STD-9	Nut
	4	STD-160	Washer
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	2	STD-1215	Capscrew

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name		
74042	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	60009	Key, Valve, Intake
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust
	1	67113	Rocker Assembly, Intake Valve
	1	67193	Gasket, Rocker Box Cover
	1	68325	Seat, Valve Spring, Lower
	2	68326	Spring, Valve, Outer
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve, Auxiliary
	1	68795	Cover Assembly, Rocker Box
	2	72626	Shaft, Valve Rocker
	1	69235	Ring, Piston, Scraper
	1	69650	Pin, Piston
	1	71195	Box, Set-Up
	1	71481	Seal, Cylinder Base, Oil
	2	71549	Washer, Valve Rocker, Thrust
	3	74673	Ring, Piston, Compression
	2	72198	Plug, Piston Pin
	1	73112	Seat, Valve Spring, Lower
	1	73115	Seat, Valve Spring, Rotator Type
	1	73129	Valve, Intake
	1	73976-S	Piston, 5Ring
	1	73998	Ring, Piston, Oil Regulating, Expander Type
	1	74802	Valve, Exhaust (Rotator)
	1	76480	Cylinder Assembly
	2	MS-13997-3	Key, Valve (Rotator)
	1	MS-13998-3	Cap, Valve Stem (Rotator)
	4	STD-9	Nut, Plain, 1/4-28
	4	STD-160	Washer, Shake Proof-Lock, 1/4
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	2	STD-1215	Capscrews
74406	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	60009	Key, Valve
	2	72198	Plug, Piston Pin
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust Valve
	1	67113	Rocker Assembly, Intake Valve
	1	67193	Gasket, Rocker Box Cover
	1	68325	Seat, Valve Spring, Lower
	2	68326	Spring, Valve, Outer
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve, Auxiliary
	1	68795	Cover Assembly, Rocker Box
	2	72626	Shaft, Valve Rocker
	1	69650	Pin, Piston
	1	71195	Box, Set-Up
	1	71481	Seal, Cylinder Base, Oil
	2	71549	Washer, Valve Rocker, Thrust
	1	73112	Seat, Valve Spring, Lower
	1	73115	Seat, Valve Spring
	1	73129	Valve, Intake

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name		
74406 (cont.)	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	1	73857	Ring, Piston, Oil Reg. Expander Type
	1	74802	Valve, Exhaust
	2	MS-13997-3	Key, Valve (Rotator)
	1	MS-13998-3	Cap, Valve Stem (Rotator)
	4	STD-9	Nut
	4	STD-160	Washer
	8	STD-1925	Screw
	2	74241	Ring, Piston Compression
	1	78762-S	Piston, 3 Ring
	1	74825 or 75215	Cylinder Assembly, Long Reach Plugs, Nitrided
	2	STD-1215	Capscrew
76446	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	1	73114 or 76369	Cylinder Assembly, Chrome
	1	71545	Piston
	1	69650	Pin, Piston
	2	72198	Plug, Piston Pin
	2	71556	Ring, Piston, Compression
	1	72454	Ring, Piston, Oil Regulating
	1	69235	Ring, Piston, Scraper
	1	73129	Valve, Intake
	1	73111	Valve, Exhaust, Rotator
	1	68325	Seat, Valve Spring, Lower
	2	68326	Spring, Valve Outer
	1	73115	Seat, Valve Spring (Rotator Type)
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve Auxiliary
	2	MS-13997-3	Key, Valve (Rotator)
	2	60009	Key, Valve, Intake
	1	MS-13998-3	Cap, Valve Stem, Rotator
	2	71549	Washer, Valve Rocker, Thrust
	1	67113	Rocker Assembly, Intake Valve
	1	67112	Rocker Assembly, Exhaust Valve
	1	71195	Box, Set-Up
	4	62922	Seal, Shroud Tube
	1	71481	Seal, Cylinder Base, Oil
	2	72626	Shaft, Valve Rocker
	2	66732	Gasket, Valve Rocker Shaft Cover
	2	66731	Cover, Valve Rocker Shaft
	1	67193	Gasket, Rocker Box Cover
	1	68795	Cover Assembly, Rocker Box
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	4	STD-9	Nut, Plain, 1/4-28
	4	STD-160	Washer, Lock, 1/4 in.
	1	73112	Seat, Valve Spring Lower, Exhaust
	2	STD-1215	Capscrew
77106	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	60009	Key, Valve, Intake
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust
	1	67113	Rocker Assembly, Intake Valve

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name	
77106 (cont.)	CYLINDER, PISTON AND RING ASSEMBLY Consisting of:	All Models
1	67193	Gasket, Rocker Box Cover
1	68325	Seat, Valve Spring, Lower
2	68326	Spring, Valve, Outer
1	68327	Seat, Valve Spring
2	68328	Spring, Valve Auxiliary
1	68795	Cover Assembly, Rocker Box
2	72626	Shaft, Valve Rocker
1	69650	Pin, Piston
1	71195	Box, Set-Up
1	71481	Seal, Cylinder Base, Oil
2	71549	Washer, Valve Rocker, Thrust
2	74673	Ring, Piston, Compression
2	72198	Plug, Piston Pin
1	73111 or 73875	Valve, Exhaust, Rotator
1	73112	Seat, Valve Spring, Lower
1	73114 or 76369	Cylinder Assembly, Chrome
1	73115	Seat, Valve Spring, Rotator
1	73129	Valve, Intake
1	78762-S	Piston, 3 Ring
1	73998	Ring, Piston, Oil Regulating, Expander Type
2	MS-13997-3	Key, Valve, Rotator
1	MS-13998-3	Cap, Valve Stem, Rotator
4	STD-9	Nut, 1/4-28, Plain
4	STD-160	Washer, Lock, 1/4 in.
8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
2	STD-1215	Capscrew
77107	CYLINDER, PISTON AND RING ASSEMBLY Consisting of:	All Models
2	60009	Key, Valve
4	62922	Seal, Shroud Tube
2	66731	Cover, Valve Rocker Shaft
2	66732	Gasket, Valve Rocker Shaft Cover
1	67112	Rocker Assembly, Exhaust Valve
1	67113	Rocker Assembly, Intake Valve
1	67193	Gasket, Rocker Box Cover
1	68325	Seat, Valve Spring, Lower
2	68326	Spring, Valve, Outer
1	68327	Seat, Valve Spring
2	68328	Spring, Valve, Auxiliary
1	68795	Cover Assembly, Rocker Box
2	72626	Shaft, Valve Rocker
1	69650	Pin, Piston
1	71195	Box, Set-Up
1	71481	Seal, Cylinder Base, Oil
2	71549	Washer, Valve Rocker Thrust
2	74673	Ring, Piston, Top Compression
2	72198	Plug, Piston Pin
1	75393	Cylinder Assembly Chrome, Long Reach Plugs
1	73112	Seat, Valve Spring Lower
1	73115	Seat, Valve Spring, (Rotator Type)
1	73129	Valve, Intake
1	78762-S	Piston, 3Ring
1	73998	Ring, Piston, Oil Regulating
1	74802	Valve, Exhaust, Rotator Type
2	MS-13997-3	Key, Valve, Rotator
1	MS-13998-3	Cap, Valve Stem, Rotator

LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SECTION X (Cont.)

SERVICE REPLACEMENT SET SECTION

(GSO and IGSO-480 SERIES)

Part No.	Part Name		
77107 (cont.)	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	4	STD-9	Nut, 1/4-28, Plain
	4	STD-160	Washer, Lock, 1/4 in.
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	2	STD-1215	Capscrew
77108	CYLINDER, PISTON AND RING ASSEMBLY		All Models
	Consisting of:		
	2	60009	Key, Valve, Intake
	4	62922	Seal, Shroud Tube
	2	66731	Cover, Valve Rocker Shaft
	2	66732	Gasket, Valve Rocker Shaft Cover
	1	67112	Rocker Assembly, Exhaust Valve
	1	67113	Rocker Assembly, Intake Valve
	1	67193	Gasket, Rocker Box Cover
	1	68325	Seat, Valve Spring, Lower
	2	68326	Spring, Valve, Outer
	1	68327	Seat, Valve Spring
	2	68328	Spring, Valve, Auxiliary
	1	68795	Cover Assembly, Rocker Box
	2	72626	Shaft, Valve Rocker
	1	69650	Pin, Piston
	1	71195	Box, Set-Up
	1	71481	Seal, Cylinder Base, Oil
	2	71549	Washer, Valve Rocker, Thrust
	2	74673	Ring, Piston, Compression
	2	72198	Plug, Piston Pin
	1	73112	Seat, Valve Spring, Lower
	1	73115	Seat, Valve Spring, Rotator
	1	73129	Valve, Intake
	1	78762-S	Piston, 3 Ring
	1	73998	Ring, Piston, Oil Regulating
	1	74802	Valve, Exhaust
	1	74446 or 76480	Cylinder Assembly, Chrome
	2	MS-13997-3	Key, Valve Rotator
	1	MS-13998-3	Cap, Valve Stem, Rotator
	4	STD-9	Nut, Plain, 1/4-28
	4	STD-160	Washer, Lock, 1/4 in.
	8	STD-1925	Screw, Fill. Hd., Self-Locking, 1/4-20 x 5/8 in. long
	2	STD-1215	Capscrew