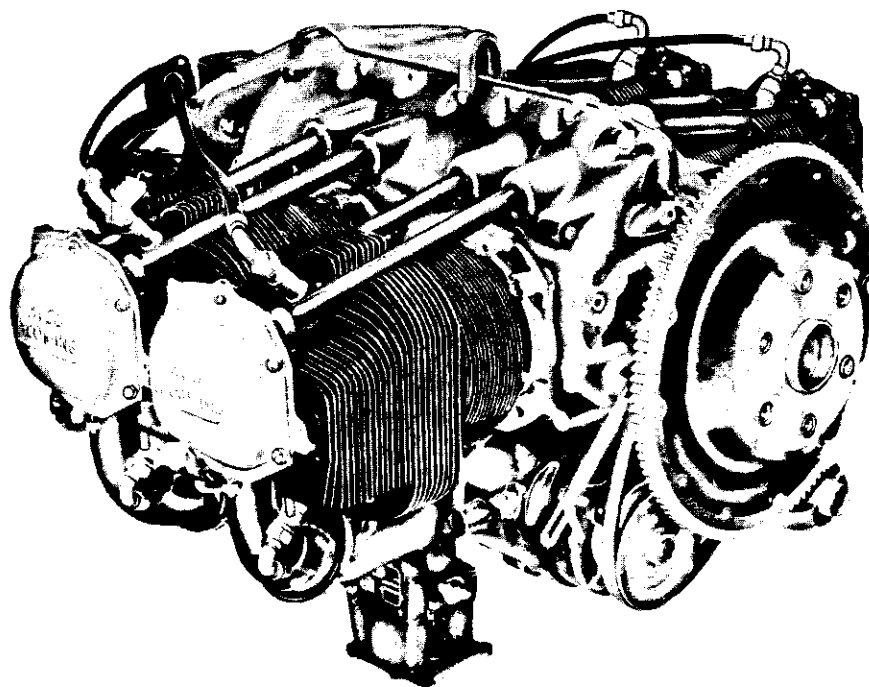


**AVCO LYCOMING**  
**PARTS CATALOG**



**O-360, HO-360-SERIES**  
**AIRCRAFT ENGINES**



**LYCOMING DIVISION**  
WILLIAMSPORT, PA.

**PC-106**

**Price \$12.00**

**Aug. 1970**

## INTRODUCTION

Through Avco Lycoming's constant effort to improve engine parts cataloging, a new engine parts catalog format has been devised. This catalog, which lists the engine parts for O-360 and HO-360 Series, Avco Lycoming aircraft engines, is one of the first issued conforming to the new format.

Parts list pages now list specific engine parts by quantity per assembly directly in column form under a specific engine model. The illustrations which accompany each parts list page, show only those parts listed on that page. Parts affected are shown in bold relief while those not listed will be phantom. Throughout the catalog abbreviations will be found as follows: STD referring to standard crankcase engines, and WCF referring to wide cylinder flange crankcase engines.

The balance of the catalog format does not essentially change from previous publications. Included are: Numerical Index of Parts, Vendor Accessory Section and Service Kit Section. It should be noted that the Vendor Accessory Section employs a format as follows: Where more than one model of an accessory is used, the part number will be followed by a letter designation A, B, C etc. Individual parts of a specific accessory will also be marked A, B, C etc. Parts common to all accessories listed will be followed by all three letters or additions. For example: Three models of Bendix -1200 Series magnetos are listed. Thus all parts marked "A" are applicable to the specific -1200 series magneto marked "A". All parts marked "B" are applicable to model magneto marked "B" etc. This system is same as in previous Avco Lycoming Parts publications.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES

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AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 1

CRANKCASE ASSEMBLY

1. P/N 71073 was superseded by P/N 72677 (Crankcase Assembly).  
P/N 72677 had no provision for adjustable oil pressure relief valve, but did incorporate body fit thru studs as per Service Bulletin No. 273.  
P/N 72677 was superseded by P/N 76591.  
P/N 76591 had provision for adjustable oil pressure relief valve.  
P/N 76591 was superseded by P/N 78226.  
P/N 78226 had adjustable oil pressure relief valve and new "snap-in" front crankshaft oil seal.

(Engines affected, O-360-C1C, -C2A, -C2B, -C2C, -D2A, -D2B.)

2. P/N 71359 was superseded by P/N 72676.  
P/N 72676 had no provision for adjustable oil pressure relief valve, but did incorporate body fit thru studs as per Service Bulletin No. 273.  
P/N 72676 was superseded by P/N 76592.  
P/N 76592 had provision for adjustable oil pressure relief valve.  
P/N 76592 was superseded by P/N 78228.  
P/N 78228 has adjustable oil pressure relief valve and new "snap-in" front crankshaft oil seal.

(Engines affected, O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -B2A.)

3. P/N 73609 was superseded by P/N 76595.  
P/N 76595 had provision for adjustable oil pressure relief valve.  
P/N 76595 was superseded by P/N 78229.  
P/N 78229 has adjustable oil pressure relief valve and new "snap-in" front crankshaft oil seal.

(Engine affected, O-360-C2D, HO-360-B1A, -B1B.)

CAMSHAFT ASSEMBLY

1. P/N 68769 was superseded by P/N 70492 (Camshaft Assembly).  
P/N 70492 was used to reduce valve breakage.  
P/N 70492 was superseded by P/N 74167.  
P/N 74167 was used to secure specified power.  
P/N 74167 was superseded by P/N 76097.  
P/N 76097 is camshaft with integral gear. See Service Instruction No. 1218.

(Engines affected, all models except O-360-A1H.)

HYDRAULIC TAPPET ASSEMBLY

1. P/N 69529 was superseded by P/N 72877 (Tappet Body).  
P/N 72877 was straight body with wide seat.
2. P/N 71791 was superseded by P/N 72876 (Plunger Assembly).  
P/N 72876 had wide shoulder and was fast leak down plunger.  
P/N 72876 was superseded by P/N 73062.  
P/N 73062 had wide shoulder and was slow leak down plunger.  
P/N 73062 was superseded by P/N 76290.  
P/N 76290 was limited travel, 5-15 second slow leak down plunger.  
P/N 76290 was superseded by P/N 78290.  
P/N 78290 slow leak down plunger replaced limited travel plunger.

(Engines affected, all models.)

CRANKSHAFT ASSEMBLY

1. P/N 71324 was superseded by P/N 74966 (Crankshaft Assembly).  
P/N 74966 crankshaft without sludge tubes, P/N 71324 had sludge tubes.

(Engines affected, O-360-A1A, -A1C, -A1D, -C1C.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 1

CRANKSHAFT ASSEMBLY (CONT.)

2. P/N 71541 was superseded by P/N 74968.  
P/N 74968 is crankshaft without sludge tubes, P/N 71541 had sludge tubes.  
(Engines affected, O-360-A2A, -A2D, -A2E, -B2A, -C2A, -C2B, -C2C, -D2A, -D2B.)
3. P/N 74250 was superseded by P/N 74970.  
P/N 74970 is crankshaft without sludge tubes, P/N 74250 had sludge tubes.  
(Engines affected, O-360-A3A.)
4. P/N 75208 was superseded by P/N 77417.  
P/N 75208 can be reworked to P/N 77417 by installation of special crankshaft plug P/N 77416.  
(Engines affected, O-360-C2D, HO-360-B1A, -B1B.)

STARTER RING GEAR SUPPORTS

1. P/N 73128 was superseded by P/N 72565 (Starter Ring Gear Support Assembly).  
P/N 72565 is 12/14 pitch, P/N 73128 is 10/12 pitch.  
P/N 72287 was superseded by P/N 75221.  
P/N 75221 is 12/14 pitch and P/N 72287 is 10/12 pitch.  
(75221 has de-icing provision.)  
(Engines affected, all standard crankcase engines.)
2. P/N 60882 was superseded by P/N 72566 (Starter Ring Gear).  
P/N 72566 is 12/14 pitch, P/N 60882 is 10/12 pitch.  
(Engines affected, all standard crankcase engines.)

SECTION 2

ACCESSORY HOUSING ASSEMBLY, SEPARATE CAM GEARS

1. P/N 71234 was superseded by P/N 71581 (Accessory Housing Assembly).  
P/N 71234 breather tube pressed in, P/N 71581 breather tube threaded.  
P/N 71581 was superseded by P/N 72506.  
P/N 71581 used STD-1415 bolts at magneto pads, P/N 72506 uses STD-1414 bolts. P/N 72506 machined and studded for -21 series magnetos and diaphragm type fuel pump.  
(Engines affected, O-360-A1A, -A2A, -A3A, -C2A, -D2A.)
2. P/N 72510 was superseded by P/N 73972.  
P/N 72510 is no longer available.  
(Engines affected, O-360-A1D, -A2D, -C1C, -C2C, -D2B.)
3. P/N 72506 was superseded by P/N 76110.  
P/N 76110 is used with integral cam gears.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A2E, -B2A, -C2A, -D2A.)
4. P/N 73972 was superseded by P/N 76111 (Machined and Studded for -200 Series Magnetos).  
P/N 76111 is used with integral cam gears.  
(Engines affected, O-360-A1D, -A2D, -C1C, -C2C, -D2B.)
5. P/N 73018 was superseded by P/N 76137 (AN Fuel Pump, -200 Series Magnetos).  
P/N 76137 used with integral cam gears.  
(Engines affected, O-360-A1C.)



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 2

ACCESSORY HOUSING ASSEMBLY, SEPARATE CAM GEARS (CONT.)

6. P/N 73604 was superseded by P/N 76139 (AN Fuel Pump, -200 Series Magnetos).  
P/N 76139 used with integral cam gears.  
  
(Engines affected, O-360-C2D, HO-360-B1A, -B1B.)
7. P/N 73234 was superseded by P/N 76140 (Diaphragm Fuel Pump, -200 Series Magnetos).  
P/N 76140 used with integral cam gears.  
  
(Engines affected, O-360-A1D.)
8. P/N 73198 was superseded by P/N 76141 (AN Fuel Pump Drive).  
P/N 76141 used with integral cam gears.  
  
(Engines affected, O-360-A2E.)
9. P/N 76826 was superseded by P/N 77510 (Vacuum and Hydraulic Pump Dual Drive).  
P/N 77510 used with integral cam gears.  
  
(Engines affected, O-360-A1A.)

NOTE

Be sure and check supersedures listed before integral cam gear housing supersedures.

1. P/N 69183 cover, and P/N 69154 body, was superseded by P/N 76354 (Oil Pump).  
P/N 76354 is one piece oil pump body for use with either "AC" or "AN" fuel pump drives.  
  
(Engines affected, all models.)

SECTION 3

CYLINDER, CONNECTING ROD AND PISTON

1. P/N 71987-S was superseded by P/N 74502-S (Connecting Rod).  
P/N 71987-S is no longer available.  
  
(Engines affected, all models.)
2. P/N 69456 was superseded by P/N 73196 (Piston).  
P/N 73196 is low compression piston (4 Rings).  
P/N 73196 was superseded by P/N 74059.  
P/N 74059 had full wedge piston rings (4 Rings).  
P/N 74059 was superseded by P/N 75413.  
P/N 75413 has half wedge rings (3 Rings).  
  
(Engines affected, O-360-B2A, -D2A, -D2B.)
3. P/N 71594 was superseded by P/N's 72967 and 73148 (Piston).  
P/N 71594 was 3 ring piston, while 72967 and P/N 73148 are 4 ring pistons.  
P/N's 72967 and 73148 were superseded by P/N 74530.  
P/N 74530 changed weight limitations.  
P/N 74530 was superseded by P/N 75089.  
P/N 75089 is 3 ring, half wedge ring piston.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -C1C, -C2A, -C2B, -C2C, -C2D, HO-360-B1A, -B1B.)
1. P/N 60828 was superseded by P/N 72198 (Piston Pin Plug).  
P/N 72198 is for use on chrome and nitrided cylinders.  
  
(Engines affected, all models.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDES, STANDARD CRANKCASE ENGINES

SECTION 3

CYLINDER, CONNECTING ROD AND PISTON (CONT.)

1. P/N 71939 was superseded by P/N 74673 (Piston, Compression Ring).  
P/N 71939 was primarily used in 4 ring pistons while P/N 74673 is used on 3 ring pistons. Both are plain, half-wedge rings.  
  
(Engines affected, O-360-A1A, -A2A, -C2D.)
2. P/N 68513 was superseded by P/N 74989.  
P/N 68513 was full wedge ring while P/N 74989 is half wedge ring.  
  
(Engines affected, O-360-B2A, -D2A, -D2B.)
3. P/N 69457 was superseded by P/N 72454 (Oil Regulating Ring).  
P/N 72454 was half wedge ring.  
P/N 72454 was superseded by P/N 73998.  
P/N 73998 was used when changing from 4 to 3 ring piston.  
  
(Engines affected, O-360-A1A, -A2A, -C2D.)

NOTE

Oil regulating ring, P/N 73857 may be used as P/N 73998 on the following engines: O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -B2A, -C1C, -C2A, -C2B, -C2C, -C2D, -D2A, -D2B.

1. P/N 71099 was superseded by P/N 71848 (Cylinder Assembly).  
P/N 71848 improved thread fit between head and barrel.  
P/N 71848 was superseded by P/N 75186.  
P/N 75186 has 1/2 in. dia. exhaust valve.  
  
(Engines affected, O-360-B2A, -D2A, -D2B.)
2. P/N 71778 was superseded by P/N 71970.  
P/N 71970 improved thread fit between head and barrel.  
P/N 71970 was superseded by P/N 75362.  
P/N 75362 has 1/2 in. dia. exhaust valve.  
  
(Engines affected, O-360-A1A, -A2A, -D2A.)
3. P/N 71099 was superseded by P/N 71848.  
P/N 71848 improved thread fit between head and barrel.  
P/N 71848 was superseded by P/N 73134.  
P/N 73134 was nitrided cylinder.  
P/N 73134 was superseded by P/N 75363.  
P/N 75363 has 1/2 in. dia. exhaust valve.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -C1C, -C2A, -C2B, -C2C, -C2D, -D2A, HO-360-B1A, -B1B.)
1. P/N 67904 was superseded by P/N 72057 (Intake Valve Seat).  
P/N 69530 was superseded by P/N 72058 (Exhaust Valve Seat).  
  
(Engines affected, all models.)
1. P/N 69533 was superseded by P/N 74230 (Exhaust Valve Guide).  
P/N 74230 is ni-resist guide for 1/2 in. stem dia. exhaust valve.  
  
(Engines affected, all models.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 3

CYLINDER, CONNECTING ROD AND PISTON (CONT.)

1. P/N 67905 was superseded by P/N 72625 (Intake Valve).  
P/N 72625 was superseded by P/N 73938.  
(All supersedures improved valve material.)
1. P/N 71595 was superseded by P/N 74541 (Exhaust Valve).  
P/N 74541 is 1/2 in. stem dia. chrome plated exhaust valve.  
(Engines affected, both intake and exhaust valves, all models.)
1. P/N 73115 was superseded by P/N LW-10076 (Seat Valve Spring Upper, Exhaust).  
P/N LW-10076 is for 1/2 in. dia. exhaust valve.  
P/N 68327 was superseded by P/N LW-10077 (Seat Valve Spring Upper, Intake).  
P/N LW-10077 is for 1/2 in. dia. exhaust valve.  
(Engines affected, all models.)
1. P/N 61246 was superseded by P/N 75906 (Gasket, Rocker Box Cover).  
(Engines affected, all models.)
1. P/N 72050 was superseded by P/N MS-13997-3 (Key, Valve Exhaust).  
P/N 62388 was superseded by P/N MS-13998-3 (Cap, Exhaust Valve, Rotator Type).  
Above parts reflect change to 1/2 in. dia. exhaust valve.  
(Engines affected, all models.)

SECTION 4

IGNITION SECTION

1. P/N 61667 was superseded by P/N 71397 (Magneto).  
P/N 61502 was superseded by P/N 71398 (Magneto).  
Above supersedures were made to strengthen rotor shaft.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1D, -B2A, -C2A, -C2B, -D2A.)
2. P/N 72525 was superseded by P/N 73360 (Retard Breaker Magneto).  
Supersedure, improved starting characteristics.  
(Engines affected, O-360-A1C, -A1D, -A2D, -A2E, -C1C, -C2C, -C2D, -D2B, HO-360-B1A, -B1B.)
1. P/N 67975 was superseded by P/N 73729 (Ignition Harness, Unshielded).  
(Engines affected, O-360-A1A, -A2A, -D2A.)
2. P/N 74214 was superseded by P/N 75850.  
P/N 75850 had "blown-on" sleeving.  
P/N 75850 was superseded by P/N 76990.  
P/N 76990 was 5mm "Hypalon" wire.  
P/N 76990 was superseded by P/N 78538.  
P/N 78538 has 5mm "Silicone" wire.  
(Engines affected, O-360-A1D.)
3. P/N 71491 was superseded by P/N 71885.  
P/N 71491 no longer available, P/N 71885 had Neoprene cover.  
P/N 71885 was superseded by P/N 75846.  
P/N 75846 had "blown-on" sleeving.  
P/N 75846 was superseded by P/N 76992.  
P/N 76992 was 5mm "Hypalon" wire.  
P/N 76992 was superseded by P/N 78539.  
P/N 78539 is 5mm "Silicone" wire.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1D, -A2D, -A2E, -B2A, -C1C, -C2A, -C2C, -D2A, -D2B.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 4

IGNITION SECTION (CONT.)

4. P/N 71314 was superseded by P/N 73370 (Breeze) or P/N 73371 (Co-op).  
P/N 73370, 73371 had 110° elbow, bottom leads, P/N 71314 is no longer available.  
P/N's 73370, 73371 were superseded by P/N 76995.  
P/N 76995 was 5mm "Hypalon" wire.  
P/N 76995 was superseded by P/N 78540.  
P/N 78540 is 5mm "Silicone" wire.  
  
(Engines affected, O-360-A1A, -A3A, -C2B, -C2D, -D2A, HO-360-B1A, -B1B.)
5. P/N 71886 was superseded by P/N 75847.  
P/N 75847 had "blown-on" sleeving.  
P/N 75847 was superseded by P/N 76991.  
P/N 76991 was 5mm "Hypalon" wire.  
P/N 76991 was superseded by P/N 78542.  
P/N 78542 is 5mm "Silicone" wire.  
  
(Engines affected, O-360-A1A, -A1D.)
6. P/N 73240 was superseded by P/N 75848.  
P/N 73240 had 110° elbows at no. 3 and no. 4 bottom leads. P/N 75848 was "blown-on" sleeving.  
P/N 75848 was superseded by P/N 77096.  
P/N 77096 was 5mm "Hypalon" wire.  
P/N 77096 was superseded by P/N 78547.  
P/N 78547 is 5mm "Silicone" wire.  
  
(Engines affected, O-360-A1C.)

SECTION 5

ELECTRICAL COMPONENTS

1. P/N 72567 was superseded by P/N 73269 (Starter Assembly).  
P/N 73269 was 12/14 pitch and of needle bearing construction.  
P/N 73269 was superseded by P/N 74902.  
P/N 74902 was rubber cushion drive.  
P/N 74902 was superseded by P/N 76211.  
P/N 76211 is geared (3.38 to 1 ratio) starter.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -B2A, -C1C, -C2A, -C2C, -D2A, -D2B.)
2. P/N 72461 was superseded by P/N 72464.  
P/N 72464 is 10/12 pitch, rubber cushioned drive starter.  
P/N 72464 was superseded by P/N 72462.  
P/N 72462 is 12/14 pitch rubber cushioned drive starter.  
P/N 72462 was superseded by P/N 76212.  
P/N 76212 is geared (3.38 to 1 ratio) starter.  
  
(Engines affected, O-360-A1A, -A2A, -A1D, -D2A.)
3. P/N 73366 was superseded by P/N 74093.  
P/N 74093 is rubber cushioned drive starter.  
P/N 74093 was superseded by P/N 76213.  
P/N 76213 is geared (3.38 to 1 ratio) starter.  
  
(Engines affected, O-360-C2D, HO-360-B1A, -B1B.)
1. P/N 61427 was superseded by P/N 76773 (Magnetic Starter Switch).  
P/N 61427 was for 12 volt systems only.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A1C, -A1D, -A2D, -A2E, -B2A, -C1C, -C2A, -C2C, -D2A, -D2B.)

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SUPERSEDURES, STANDARD CRANKCASE ENGINES

SECTION 5

ELECTRICAL COMPONENTS (CONT.)

2. P/N 61941 was superseded by P/N 76268.  
Both P/N's 61941 and 76268 are for 24 volt systems only.  
P/N 76268 was superseded by P/N 76775.  
P/N 76775 to be used with 24 volt system.

(Engines affected, O-360-A1A, -A2A, -A1D, -D2A.)

SECTION 6

INDUCTION SYSTEM

- P/N 74060 was superseded by P/N 74082 (Fuel Pump Assembly).  
P/N 74082 was low pressure pump.  
P/N 74082 was superseded by P/N 74798.  
P/N 74798 employed stepped rod.  
P/N 74798 was superseded by P/N 75148.  
P/N 75148 was dual diaphragm pump.  
P/N 75148 was superseded by P/N 75246.  
P/N 75246 incorporates modified inlet and outlet ports.

(Engines affected, O-360-A1A, -A2A, -A3A, -A1D, -A2D, -B2A, -C1C, -C2A, -C2C, -D2A, -D2B.)

1. P/N 61278 was superseded by P/N 74996 (Gear Assembly, Crankshaft Idler, Plain).  
P/N 74996 employs 1 gear assembly, with diaphragm pump; two gear assemblies with "AN" fuel pump.
1. P/N 61154 was superseded by P/N 77309 (Bushing, Crankshaft Idler Gear).  
P/N 77309 is 1/16 in. shorter and is pressed in to double boss.

(Engines affected by both above supersedures, O-360-A1A, -A2A, -A3A, -A1D, -A2D, -B2A, -C1C, -C2A, -C2C, -D2A.)

1. P/N 61152 was superseded by P/N 75072 (Gear Assembly, Crankshaft Idler).  
P/N 75072 standardized parts for standard and wide cylinder flange crankcase engines.

(Engines affected, all models.)

1. P/N 69161 was superseded by P/N 75924 (Shaftgear Assembly, Fuel Pump Drive).  
P/N 75924 standardized 1:1 ratio for all "AN" fuel pump drives.

(Engines affected, O-360-A1C, -A2E, -C2B, -C2D, HO-360-B1A, -B1B.)

1. P/N 71725 was superseded by P/N 74172 (Sump Assembly).  
P/N 74172 had NPT and STD-551 drain plug.  
P/N 74172 was superseded by P/N 76503.  
P/N 76503 uses STD-111 gasket and P/N 69335 drain plug.

(Engines affected, O-360-A1C, -C2B, -C2D, HO-360-B1A, -B1B.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 1

CRANKCASE ASSEMBLY

NOTE

Many of the supersedures listed under standard crankcase engine models are also applicable to wide cylinder flange crankcase model engines. Where this is so, this section will reference page number and supersedure data contained in section applicable to standard crankcase model engines.

1. P/N 77054 was superseded by P/N 77262 (Crankcase Assembly).  
P/N 77262 had adjustable oil pressure relief valve.  
P/N 77262 was superseded by P/N 78238.  
P/N 78238 had snap-in type crankshaft oil seal.  
P/N 78238 was superseded by P/N LW-11030.  
P/N LW-11030 had straight main bearing dowels.  
P/N LW-11030 was superseded by P/N LW-11068-S.  
P/N LW-11068-S has straight main bearing dowels plus body fit thru studs.

(Engines affected, O-360-A4A.)

2. P/N 75134 was superseded by P/N 76610.  
P/N 76610 had adjustable oil pressure relief valve.  
P/N 76610 was superseded by P/N 78234.  
P/N 78234 had snap-in type crankshaft oil seal.  
P/N 78234 was superseded by P/N LW-11028.  
P/N LW-11028 had straight main bearing dowels.  
P/N LW-11028 was superseded by P/N LW-11066.  
P/N LW-11066 has straight main bearing dowels plus body fit thru studs.

NOTE

Future orders for P/N 78234 crankcase assembly will be filled with P/N LW-11066.

(Engines affected, O-360-C1A, -C1C.)

3. P/N 78713 was superseded by P/N LW-11026.  
P/N LW-11026 has straight main bearing dowels and body fit thru studs.

(Engines affected, O-360-A1H.)

4. P/N 78223 was superseded by P/N LW-11023.  
P/N LW-11023 had straight main bearing dowels.  
P/N LW-11023 was superseded by P/N LW-11053.  
P/N LW-11053 has straight main bearing dowels and body fit thru studs.

(Engines affected, O-360-A1A, -A2A, -A3A, -A1D, -A2D, -A1F6, -A2F, -A1G, -A2G, -B2A.)

5. P/N 75102 was superseded by P/N 76605.  
P/N 76605 had adjustable oil pressure relief valve.  
P/N 76605 was superseded by P/N 78222.  
P/N 78222 had snap-in type crankshaft oil seal.  
P/N 78222 was superseded by P/N LW-11022.  
P/N LW-11022 had straight main bearing dowels.  
P/N LW-11022 was superseded by P/N LW-11050.  
P/N LW-11050 has straight main bearing dowels and body fit thru studs.

(Engines affected, O-360-C2A, -C2C.)

CAMSHAFT ASSEMBLY

1. Same supersedure as standard crankcase engines. See Avco Lycoming Service Instruction No. 1218. Page iv, Standard Crankcase Supersedure.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 1

HYDRAULIC TAPPET ASSEMBLY

1. Same supersedures as standard crankcase engines. Page iv, Standard Crankcase Supersedure.

CRANKSHAFT ASSEMBLY

1. P/N 71324 was superseded by P/N 74966 (Crankshaft Assembly).  
(See Standard Crankcase Supersedure, Page iv.)  
(Engines affected, O-360-A1A, -A1D, -A1G, -A1H, -C1A, -C1C.)
2. P/N 71541 was superseded by P/N 74968.  
(See Standard Crankcase Supersedure, Page v.)  
(Engines affected, O-360-A2A, -A2D, -A2F, -A2G, -B2A, -C2A, -C2C, -D2A.)
3. P/N 74250 was superseded by P/N 74970.  
(See Standard Crankcase Supersedure, Page v.)  
(Engines affected, O-360-A3A.)

STARTER RING GEAR SUPPORTS

1. P/N 71328 was superseded by P/N 72565 (Starter Ring Gear Support Assembly).  
P/N 71328 was 10/12 pitch while P/N 72565 is 12/14 pitch.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -A1G, -B2A, -C1A, -C1C, -C2A, -C2C.)
2. P/N 72287 was superseded by P/N 75221.  
P/N 72287 was 10/12 pitch while P/N 75221 is 12/14 pitch.  
(Engines affected, O-360-A1A, -A3A.)
3. P/N 60882 was superseded by P/N 72566 (Starter Ring Gear).  
P/N 60882 was 10/12 pitch while P/N 72566 is 12/14 pitch.  
(Engines affected, All wide cylinder flange crankcase engines.)

SECTION 2

ACCESSORY HOUSING ASSEMBLIES  
(SEPARATE CAM GEARS)

1. P/N 71581 was superseded by P/N 72506 (Accessory Housing Assembly).  
P/N 72506 has two counterbored holes at left magneto pad to accommodate (2) STD-1414 bolts. P/N 71581 uses (2) STD-1415 bolts at this location.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -C1A, -C2A, -D2A.)
2. P/N 72510 was superseded by P/N 73972.  
P/N 73972 is studded for -200 series magnetos.  
(Engines affected, O-360-A1D, -A2D, -C1C, -C2C.)

ACCESSORY HOUSING ASSEMBLIES  
(INTEGRAL CAM GEARS)

1. P/N 72506 was superseded by P/N 76110 (Accessory Housing Assembly).  
P/N 76110 is integral cam gear housing. See Avco Lycoming Service Instruction No. 1218.  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1F6, -A2F, -B2A, -C1A, -C2A, -D2A.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 2

ACCESSORY HOUSING ASSEMBLIES (CONT.)  
(INTEGRAL CAM GEARS)

2. P/N 73972 was superseded by P/N 76111.  
P/N 76111 is integral cam gear housing.  
  
(Engines affected, O-360-A1D, -A2A, -C1C, -C2C.)
3. P/N 76826 was superseded by P/N 77510.  
P/N 77510 is integral cam gear housing (studded for dual drives and -21 series magnetos).  
  
(Engines affected, O-360-A1A.)

NOTE

Check supersedures for standard crankcase engines (Page v) for full information on above housings.

1. P/N 69183 cover, and P/N 69154 body, was superseded by P/N 76354 (Oil Pump).  
P/N 76354 is one piece oil pump body for use with either "AC" or "AN" fuel pump drives.  
  
(Engines affected, All wide cylinder flange crankcase engines.)
1. P/N 69451 was superseded by P/N 75944 (Oil Cooler Bypass Valve, Temperature Control).  
P/N 75944 has stainless steel shaft for added strength.  
  
(Engines affected, All models contained in this catalog.)
1. P/N 74904 was superseded by P/N 76691 (Gasket, Oil Filter Adapter).  
P/N 76691 was new improved material.  
  
(Engines affected, O-360-A3A, -A4A, -A1F6, -A2F, -A1G, -A1H.)
1. P/N 74911 was superseded by P/N 77853 (Oil Filter).  
P/N 77853 is oil filter housing while P/N 74911 was oil filter housing and adapter assembly.  
  
(Engines affected, O-360-A3A, -A4A, -A1F6, -A2F, -A1G, -A1H.)
1. P/N 69000 was superseded by P/N 75153 (Adapter Assembly, Propeller Governor Drive).  
P/N 75153 changed from straight to tapered fittings.  
  
(Engines affected, O-360-A1A, -A1D, -A1F6, -C1A, -C2A.)
2. P/N 68531 was superseded by P/N 75545.  
P/N 75545 changed from straight to tapered fittings.  
  
(Engines affected, O-360-A1A, -A1D, -A1F6, -A1G.)
3. P/N 75545 was superseded by P/N 78594.  
P/N 78594 uses cap screws while P/N 75545 was studded for (4) STD-1410 nuts.  
  
(Engines affected, O-360-A1A, -A1D, -A1F6.)

SECTION 3

CYLINDER, PISTON AND VALVE TRAIN

1. P/N 71987-S was superseded by P/N 74502-S (Connecting Rod).  
P/N 71987-S is no longer available.  
  
(Engines affected, All wide cylinder flange crankcase engines.)



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 3

CYLINDER, PISTON AND VALVE TRAIN (CONT.)

NOTE

Most listed supersedures for standard crankcase engines apply to wide cylinder flange crankcase engines. However individual engine model applications change. Therefore consult the standard crankcase supersedure section for full information. Listed below, with wide cylinder flange crankcase engine applications are latest supersedures.

2. P/N 74059 was superseded by P/N 75413 (Piston).  
P/N 75413 has half wedge rings (3 rings).  
  
(Engines affected, O-360-B2A, -D2A.)
3. P/N 74530 was superseded by P/N 75089 (Piston).  
P/N 75089 is 3 ring, half wedge ring piston.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -A1F6, -A2F, -A1G, -A2G, -A1H, -C1A, -C1C, -C2A, -C2C.)
1. P/N 75910 was superseded by P/N 75971 (Chrome Cylinder Assembly).  
P/N 75971 has 1/2" stem dia. exhaust valve.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -A1F6, -A2F, -A1G, -A2G, -A1H, -B2A, -C1A, -C1C, -C2A, -C2C.)
2. P/N 74973 was superseded by P/N 75874 (Nitrided Cylinder Assembly).  
P/N 75874 has 1/2" stem dia. exhaust valve.  
  
(Engines affected, O-360-A1A, -A4A, -C2A, -D2A.)
1. Intake and exhaust valve seat supersedure same as standard, Page vii, crankcase engines. (All wide cylinder flange crankcase model engines.)
1. Exhaust valve guide supersedure same as standard crankcase engines, Page vii. (All wide cylinder flange crankcase model engines.)
1. Intake and exhaust valve supersedures same as standard crankcase engines, Page viii. (All wide cylinder flange crankcase model engines.)
1. Intake and exhaust valve upper spring seat supersedures same as standard crankcase engines, Page viii. (All wide cylinder flange crankcase model engines.)
1. Rocker box cover gasket supersedure same as standard crankcase engines, Page viii. (All wide cylinder flange crankcase model engines.)
1. Exhaust valve key and rotator cap supersedures same as standard crankcase engines, Page viii. (All wide cylinder flange crankcase model engines.)

SECTION 4

IGNITION SECTION

1. P/N 61667 was superseded by P/N 71397 (Magneto Assembly).  
P/N 71397 provided a stronger rotor shaft.  
P/N 61502 was superseded by P/N 71398 (Magneto Assembly).  
P/N 71398 provided a stronger rotor shaft.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -B2A, -C1A, -C2A.)
2. P/N 72525 was superseded by P/N 73360.  
P/N 72525 is no longer available.  
  
(Engines affected, O-360-A1D, -A2D, -C1A, -C2B.)

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SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 4

IGNITION SECTION (CONT.)

1. P/N 74214 was superseded by P/N 75850 (Ignition Harness).  
P/N 75850 had "blown-on" sleeving.  
P/N 75850 was superseded by P/N 76990.  
P/N 76990 had 5MM "Hypalon-Wire".  
P/N 76990 was superseded by P/N 78538.  
P/N 78538 has 5MM Silicone Wire.  
  
(Engines affected, O-360-A1D.)
2. P/N 71885 was superseded by P/N 75846.  
P/N 75846 had "blown-on" sleeving.  
P/N 75846 was superseded by P/N 76992.  
P/N 76992 was 5MM "Hypalon-Wire".  
P/N 76992 was superseded by P/N 78539.  
P/N 78539 has 5MM Silicone Wire.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -A1H, -B2A, -C1A, -C1C, -C2A, -C2C.)
3. P/N 71314 was superseded by P/N 73371 (Co-Op) or P/N 73370 (Breeze).  
Both P/N's 73371 and 73370 provide 110° spark plug elbows on bottom leads.  
P/N's 73371 and 73370 were superseded by P/N 76995.  
P/N 76995 had Hypalon 5MM Wire.  
P/N 76995 was superseded by P/N 78540.  
P/N 78540 is 5MM Silicone Wire.  
  
(Engines affected, O-360-A1A, -A3A.)
4. P/N 71886 was superseded by P/N 75847.  
P/N 75847 had "blown-on" sleeving.  
P/N 75847 was superseded by P/N 76991.  
P/N 76991 was 5MM Hypalon Wire.  
P/N 76991 was superseded by P/N 78542.  
P/N 78542 is 5MM Silicone Wire.  
  
(Engines affected, O-360-A1A.)
5. P/N 76781 was superseded by P/N 78546.  
P/N 78546 is 5MM Silicone Wire. Harness is for -1200 series magnetos.  
  
(Engines affected, O-360-A1F6, -A2F, -A1G, -A2G, -C2A, -D2A.)
6. P/N's 76543 and 76544 were superseded by P/N LW-10177 (for -1200 series magnetos).  
LW-10177 provides a universal harness for Beech installations.  
  
(Engines affected, O-360-A2G.)
1. P/N 60861 was superseded by P/N 76028 (Generator Adjusting Link).  
P/N 76028 provided adequate belt tension.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -B2A, -C1A, -C1C, -C2A, -C2C.)

SECTION 5

ELECTRICAL COMPONENTS

1. P/N 77344 was superseded by P/N 78308 (Alternator Assembly).  
P/N 78308 provided new slip ring head, and roller bearing construction.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A.)

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SUPERSEDURES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 5

ELECTRICAL COMPONENTS (CONT.)

2. P/N 77470 was superseded by P/N 78310.  
P/N 78310 provided new slip ring head and roller bearing construction.  
(Engines affected, O-360-A1A.)
3. P/N 77764 was superseded by P/N 78311.  
P/N 78311 provided new slip ring head and roller bearing construction.  
(Engines affected, O-360-A1F6.)
4. P/N 77346 was superseded by P/N 78312.  
P/N 78312 provided new slip ring head and roller bearing construction.  
(Engines affected, O-360-A3A.)
1. P/N 72338 was superseded by P/N's 72567 or 73271 (Starter Assemblies).  
P/N's 72567 and 73271 were of needle bearing construction.  
P/N's 72567 and 73271 were superseded by P/N's 73269 or 72465.  
P/N's 73269 and 72465 were rubber cushioned drive and 10/12 pitch.  
P/N's 73269 and 72465 were superseded by P/N 74092.  
P/N 74092 had rubber cushioned drive but was 12/14 pitch.  
P/N 74092 was superseded by P/N 76211.  
P/N 76211 is geared, 12/14 pitch, 3.38 to 1 ratio.  
  
(Engines affected, All wide cylinder flange models except O-360-C1A, -C1C.)
2. P/N 71348 was superseded by P/N 72337 (Starter Assembly).  
P/N 72337 provided for proper belt clearance.  
P/N 72337 was superseded by P/N 72461.  
P/N 72461 was rubber cushioned drive, 10/12 pitch.  
P/N 72461 was superseded by P/N 72464.  
P/N 72464 was rubber cushioned drive, 10/12 pitch.  
P/N 72464 was superseded by P/N 72462.  
P/N 72462 was 12/14 pitch.  
P/N 72462 was superseded by P/N 76212.  
P/N 76212 is geared, 12/14 pitch, 3.38 to 1 ratio.  
  
(Engines affected, O-360-C1A, -C1C.)
3. P/N 73366 was superseded by P/N 74093 (Starter Assembly).  
P/N 74093 is no longer available.  
P/N 74093 was superseded by P/N 76213.  
P/N 76213 is geared, 12/14 pitch 3.38 to 1 ratio.  
  
(Engines affected, O-360-A1A, -A3A, -A1D.)
1. P/N 61427 was superseded by P/N 76773 (Magnetic Switch).  
P/N 76773 is Prestolite Magnetic Switch.  
  
(Engines affected, O-360-A1A, -A2A, -A3A, -A4A, -A1D, -A2D, -A2F, -A2G, -B2A, -C1A, -C1C, -D2A.)
2. P/N 61941 was superseded by P/N 76268 (Magnetic Switch).  
P/N 76268 is Delco-Remy switch for 24 volt systems only.  
P/N 76268 was superseded by P/N 76775.  
P/N 76775 is Prestolite switch.  
  
(Engines affected, O-360-A1A, -A3A, -A1D.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST  
SUPERSEDES, WIDE CYLINDER FLANGE CRANKCASE ENGINES

SECTION 6

INDUCTION SYSTEM

1. P/N 73297 was superseded by P/N 74060 (Fuel Pump Assembly).  
P/N 74060 was removed interference between pump and accessory housing.  
P/N 74060 was superseded by P/N 74082.  
P/N 74082 was lower pressure pump.  
P/N 74082 was superseded by P/N 74798.  
P/N 74798 had a stepped rod.  
P/N 74798 was superseded by P/N 75148.  
P/N 75148 was low pressure, dual diaphragm pump.  
P/N 75148 was superseded by P/N 75246.  
P/N 75246 is improved, low pressure, dual diaphragm pump.

(Engines affected, All wide cylinder flange crankcase model engines.)

1. P/N 61278 was superseded by P/N 74996 (Gear Assembly, Crankshaft Idler, Plain)  
P/N 61278 is no longer available.

(Engines affected, O-360-A1A, -A1D, -D2A.)

1. P/N 61154 was superseded by P/N 77309 (Bushing, Crankshaft Idler Gear).  
P/N 77309 is 1/16 in. shorter bushing.

(Engines affected, O-360-A1A, -A1D, -D2A.)

1. P/N 61152 was superseded by P/N 75072 (Gear Assembly, Crankshaft Idler).  
P/N 61152 is no longer available.

(Engines affected, All wide cylinder flange crankcase model engines that do not employ the preceding option.)

1. P/N 77277 was superseded by P/N LW-10171 (Carburetor Assembly).  
P/N LW-10171 changed fuel delivery.  
P/N LW-10171 was superseded by P/N LW-10260.  
P/N LW-10260 has fuel pressure gage port on horizontal carburetor.

(Engines affected, O-360-A2G, -A1H.)

2. P/N 71710 was superseded by P/N LW-10064 (Carburetor Assembly).  
P/N LW-10064 has new mixture lever for Cessna installations.

(Engines affected, Preceding supersedure applicable to O-360-A1F6, -A2F wide cylinder flange crankcase model engines only.)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES

AIRCRAFT ENGINES

PART NO.	OVERSIZE															UNDERSIZE		
	P2	P3	P5	P6	P7	P10	P11	P12	P15	P20	P22	P30	P33	P75	P125	M3	M6	M10
61238		X			X			X										
61261		X			X			X										
61265		X			X			X										
61400		X			X			X										
61668		X			X			X										
66145						X				X								
66610			X			X												
66734		X			X			X										
66796		X				X												
67453			X															
67528		X			X			X										
67556		X			X			X										
68316		X			X			X										
68437		X			X			X										
68510		X			X			X										
69336		X			X			X										
69679		X			X			X										
69722		X			X			X										
69724		X			X			X										
69740		X			X			X										
69796			X															
69942		X			X			X										
69943		X			X			X										
72057			X			X				X		X						
70258			X			X				X		X						
72060			X			X				X								
72061			X			X				X								
72062			X			X				X								
72218																X	X	X
73810			X			X			X					X	X			
73857						X				X								
74241						X												
74248			X			X				X								
74249			X			X				X								
75089						X				X								
75154		X			X			X										
75155		X			X			X										
75156		X			X			X										
75413						X				X								
75560			X			X				X								
75561			X			X				X								
75888		X			X													
77034																X	X	X
77044																X	X	X
LW-10647			X			X												

NOTE 1

Studs are available in oversize, P3, P7, P12. Pistons are available in oversize, P10, P20. Piston rings are available in oversize, P10, P20.

NOTE 2

Do not use oversize pistons or piston rings in chrome or nitrided cylinder barrels.

NOTE 3

When ordering, be sure to specify the required oversize along with proper part number. For example, to order bushing, P/N 73810 in 0.010 in. oversize, order P/N 73810, P10. Should bearing P/N 77034 be required 0.006 in. undersize, order P/N 77034, M6. Oversize code letter is "P", while undersize code letter is "M".

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 1

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP



CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ASSEMBLY

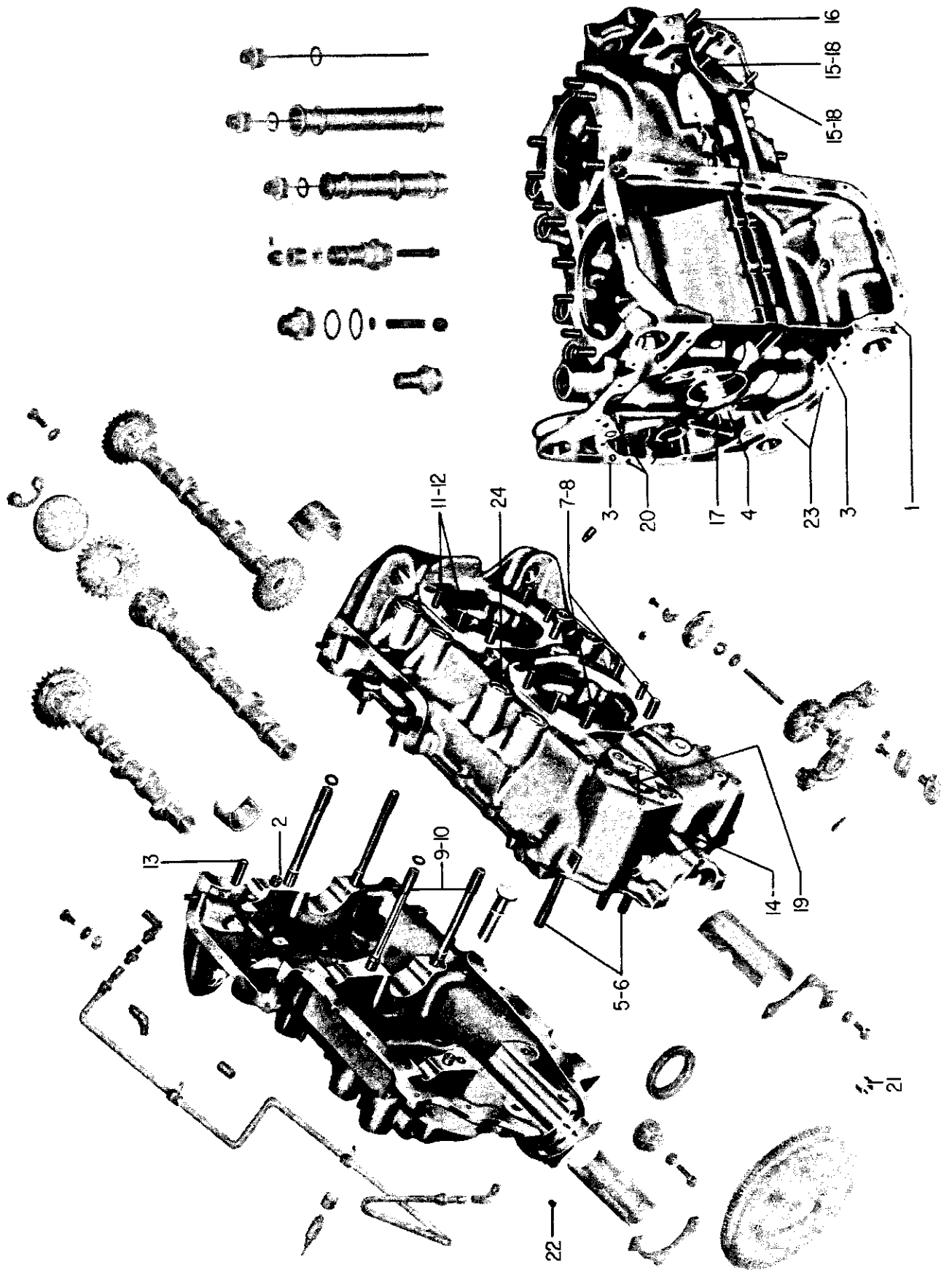


Figure 1. Crankcase Assembly



CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CAMSHAFT ASSEMBLY, CRANKCASE RELATED PARTS

SECTION  
1  
PAGE  
1-2

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																			
			O-360 SERIES																	HO-360		
			A1A	A2A	A3A	A4A	A1C	A2D	A1F6	A1F7	A1G	A2B	A1H	B2A	C1A	C1C	C2A	C2B	C2C	D2A	D2B	B1A
1	76097	CAMSHAFT ASSEMBLY - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	76097	CAMSHAFT ASSEMBLY - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	78717	CAMSHAFT ASSEMBLY - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	76121	SHAFT ASSEMBLY, Tachometer - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	76121	SHAFT ASSEMBLY, Tachometer - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	78368	PIN, .187 dia. x 2-21/64 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	76118	SPACER, Tach. shaft centering	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	MS16625-1081	RING, Internal retaining	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	61155	GEAR, Crankshaft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	61156	LOCKPLATE, Crankshaft gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	STD-847	SCREW, 5/16-24 x 1.00 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	77377	SEAL, Crankshaft oil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	72075	SEAL, Oil, .090 in. dia. section x 15/32 in. ID - STD	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	72075*	SEAL, Oil, .090 in. dia. section x 15/32 in. ID - WCF	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	72091	RING, Oil seal, 23/64 ID x 7/64 in. dia. section	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	72877	BODY, Hydraulic tappet	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
13	78290	PLUNGER ASSEMBLY, Hydraulic tappet	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
14	65074	SOCKET, Push rod, hydraulic tappet	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
15	77034	BEARING, Crankshaft - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	77034	BEARING, Crankshaft - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	77044	BEARING, Crankshaft, front - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	77044	BEARING, Crankshaft, front - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	LW-11020	BEARING, Crankshaft - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	LW-11021	BEARING, Crankshaft, alternate - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

NOTE  
Engine model O-360-A1F6 may be built with either set of bearings listed above for wide cylinder flange crankcase model engines.  
  
\* - Use on two studs (75154) wide cylinder flange crankcase model engines.

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

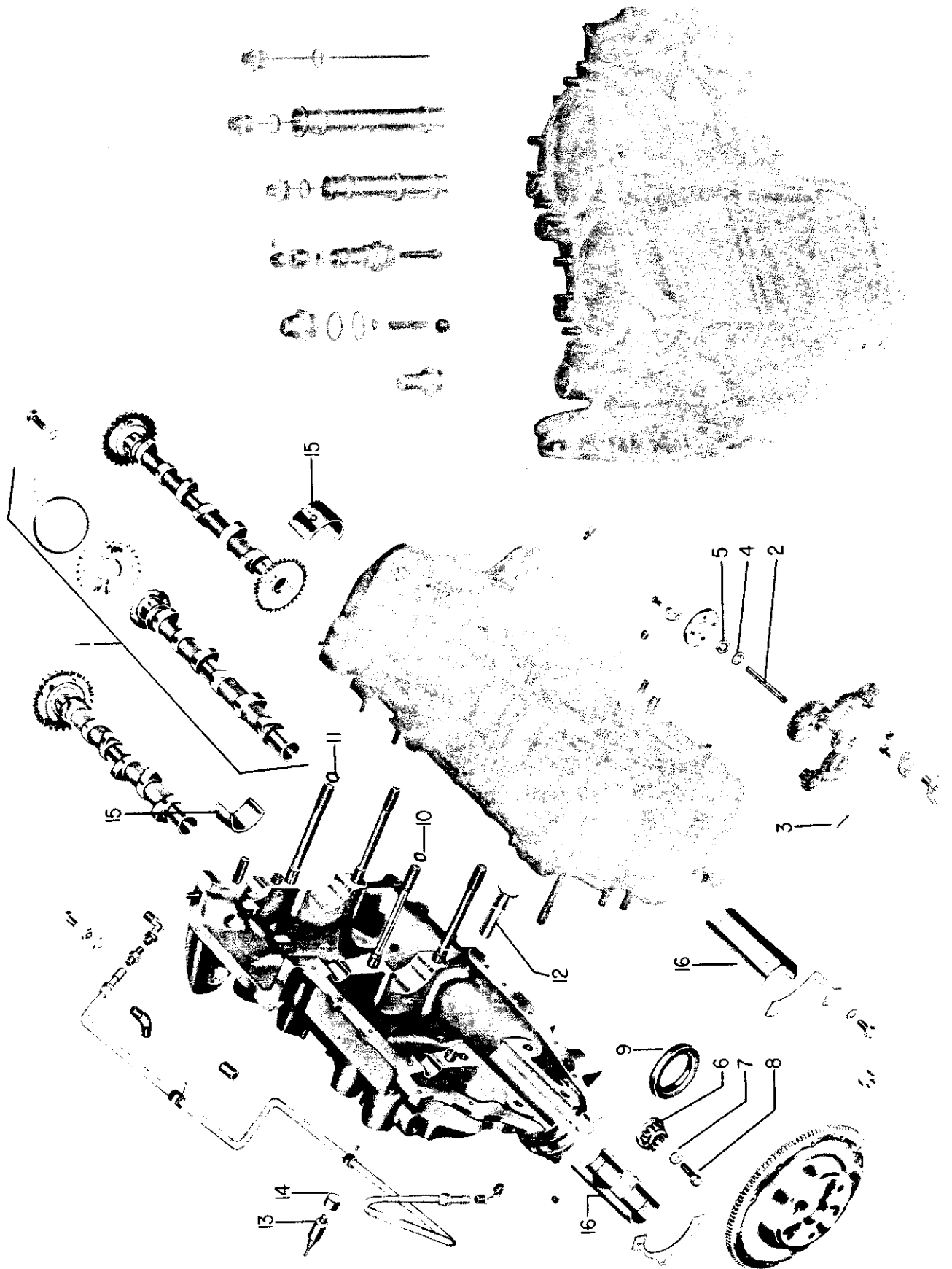


Figure 2. Camshaft Assembly and Crankcase Related Parts Group





CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKSHAFT ASSEMBLY

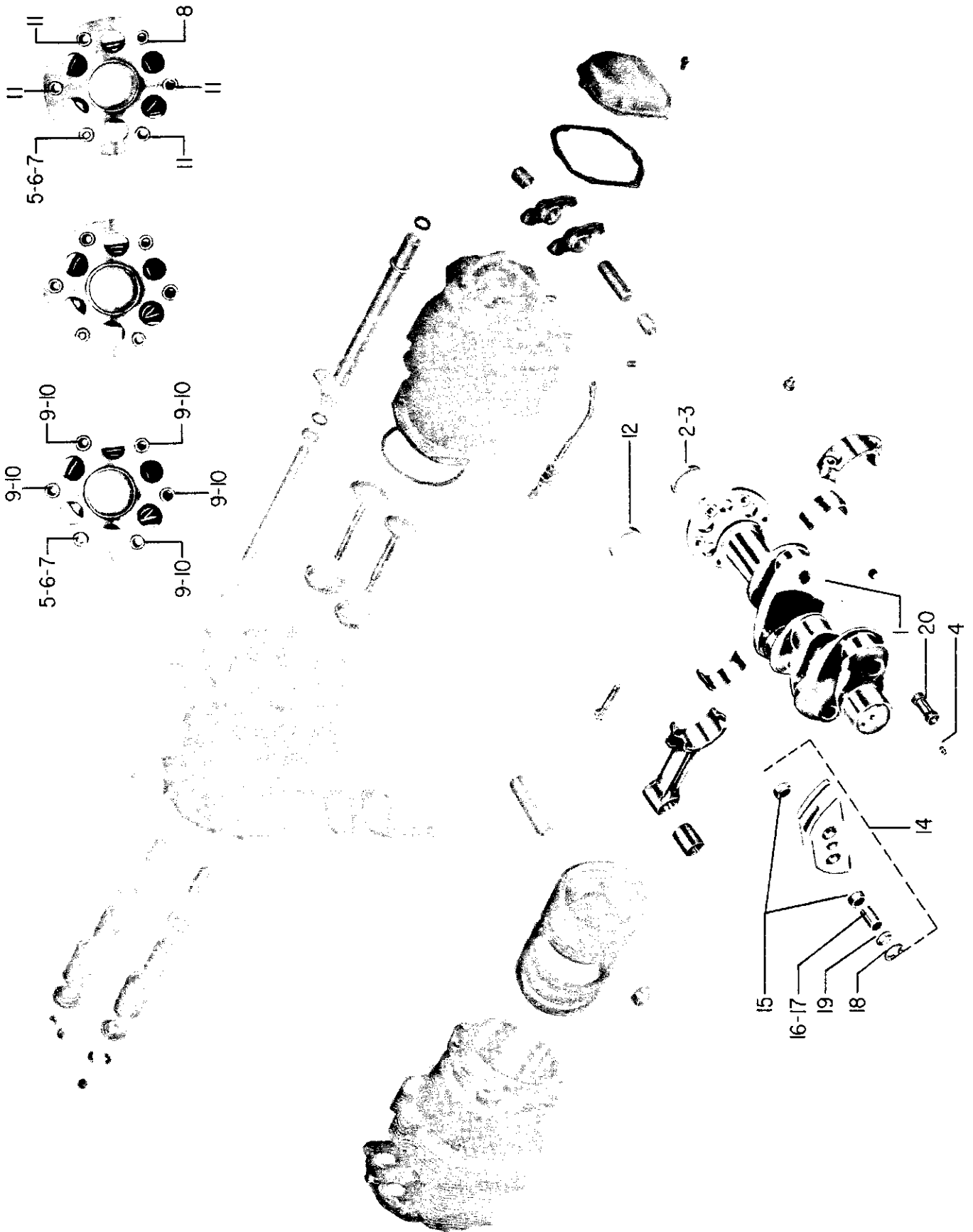


Figure 4. Crankshaft Assembly

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

CRANKCASE ATTACHING PARTS (STANDARD CRANKCASE ENGINES)

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																SECTION 1					
			O-360 SERIES														HO-360		PAGE 1-5					
			A1A	A2A	A3A	A4A	A1C	A1D	A1E	A1F	A2F	A1G	A1H	B2A	C1A	C1C	C2A	C2B		C2C	D2A	D2B	B1A	B1B
1	STD-1414	BOLT, Hex. hd., 1/4-20 x 1-1/2 in. long	8	8	8	8	8	8	8						8	8	8	8	8	8	8	8	8	8
	STD-8	WASHER, Plain, 1/4 in.	16	16	16	16	16	16	16						16	16	16	16	16	16	16	16	16	16
2	STD-2084	BOLT, Hex. hd., 1/4-20 x 1-3/4 in. long	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
	STD-160	WASHER, Internal lock, 1/4 in.	9	9	9	9	9	9	9						9	9	9	9	9	9	9	9	9	9
	STD-1411	NUT, Plain, 1/4-20	9	9	9	9	9	9	9						9	9	9	9	9	9	9	9	9	9
3	STD-1416	BOLT, Hex. hd., drilled end, 1/4-20 x 1-1/2 in. long	3	3	3	3	3	3	3						3	3	3	3	3	3	3	3	3	3
	STD-8	WASHER, Plain, 1/4 in.	9	9	9	9	9	9	9						9	9	9	9	9	9	9	9	9	9
	STD-1409	NUT, Slotted shear, 1/4-20	3	3	3	3	3	3	3						3	3	3	3	3	3	3	3	3	3
4	STD-1205	BOLT, Hex. hd., drilled, 3/8-24 x 2-3/16 in. long	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
	STD-33	WASHER, Plain, 3/8 in.	2	2	2	2	2	2	2						2	2	2	2	2	2	2	2	2	2
	STD-872	NUT, Slotted, 3/8-24	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
5	STD-1197	BOLT, Hex. hd., 3/8-24 x 3-1/2 in. long	2	2	2	2	2	2	2						2	2	2	2	2	2	2	2	2	2
	STD-33	WASHER, Plain, 3/8 in.	4	4	4	4	4	4	4						4	4	4	4	4	4	4	4	4	4
	STD-678	WASHER, Internal lock, 3/8 in.	2	2	2	2	2	2	2						2	2	2	2	2	2	2	2	2	2
	STD-596	NUT, Plain, 3/8-24	2	2	2	2	2	2	2						2	2	2	2	2	2	2	2	2	2
6	60803	STRAP, Lifting	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
7	STD-1215	BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	2	2	2	2	2	2	2						2	2	2	2	2	2	2	2	2	2
8	STD-2084	BOLT, Hex. hd., 1/4-20 x 1-3/4 in. long	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
	STD-8	WASHER, Plain, 1/4 in.	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
	STD-160	WASHER, Internal lock, 1/4 in.	3	3	3	3	3	3	3						3	3	3	3	3	3	3	3	3	3
	STD-1411	NUT, Plain, 1/4-20	1	1	1	1	1	1	1						1	1	1	1	1	1	1	1	1	1

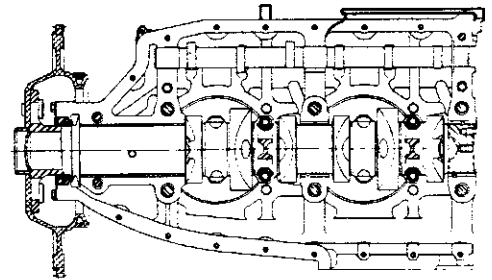
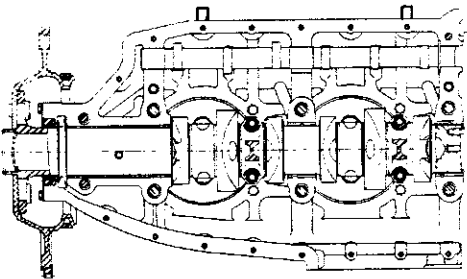
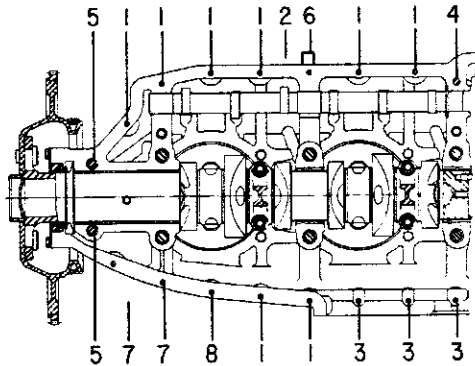
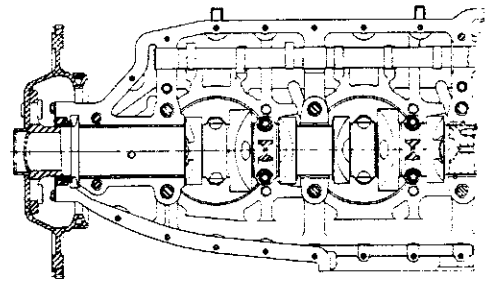
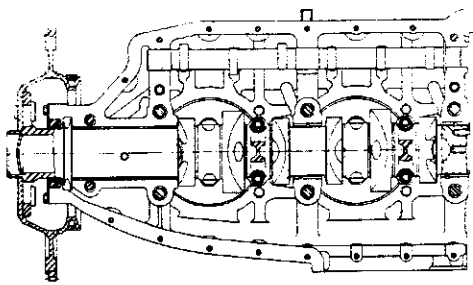


Figure 5. Crankcase Attaching Parts (Standard Crankcase Engines)

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

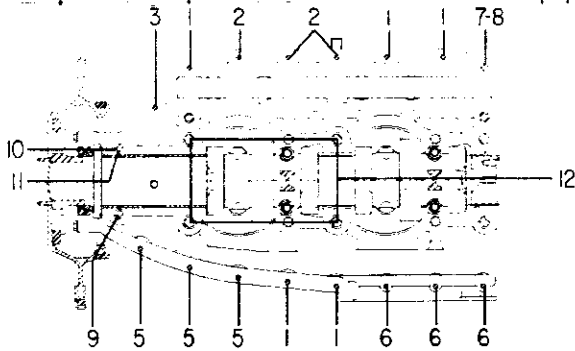
CRANKCASE ATTACHING PARTS (WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES)

SECTION 1

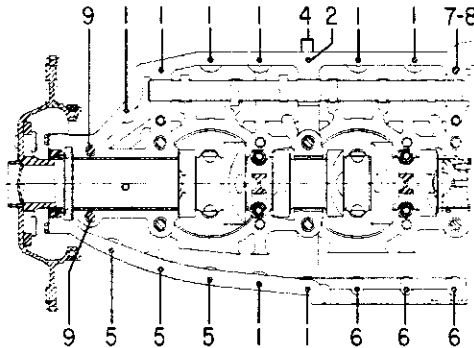
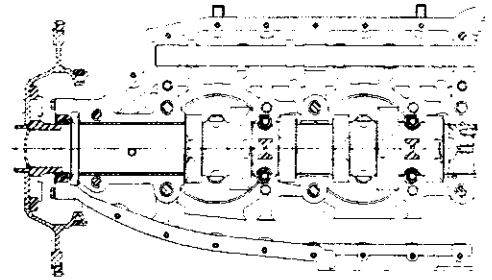
PAGE 1-6

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																	
			O-360 SERIES												HO-360					
			A1A	A2A	A3A	A4A	A1C	A1D	A1E	A1F	A1G	A1H	B2A	C1A	C1C	C2A	C2C	D2A	D2B	B7A
1	STD-1414	BOLT, Hex. hd., 1/4-20 x 1-1/2 in. long	8	8	8	8	8				8	8	8	8	8	8	8	8		
	STD-1414	BOLT, Hex. hd., 1/4-20 x 1-1/2 in. long						5										5		
	STD-8	WASHER, Plain, 1/4 in.	19	19	19	19	19	19			19	19	19	19	19	19	19	19		
2	STD-2084	BOLT, Hex. hd., 1/4-20 x 1-3/4 in. long						2										2		
	STD-2084	BOLT, Hex. hd., 1/4-20 x 1-3/4 in. long	1	1	1	1	1	1			1	1	1	1	1	1	1	1		
3	LW-10572*	BOLT, Crankcase attaching, 1/4-20 special. Assemble in top front crankcase attaching hole with hex. hd., on left crankcase						1										1		
4	60803	STRAP, Lifting	1	1	1	1	1	1										1		
5	STD-1419	BOLT, Hex. hd., 1/4-20 x 1-1/8 in. long	3	3	3	3	3	3			3	3	3	3	3	3	3	3		
	STD-160	WASHER, Internal lock, 1/4 in.	12	12	12	12	12	12			12	12	12	12	12	12	12	12		
	STD-1411	NUT, Plain, 1/4-20	9	9	9	9	9	9			9	9	9	9	9	9	9	9		
6	STD-1416	BOLT, Hex. hd., drilled end, 1/4-20 x 1-1/2 in. long	3	3	3	3	3	3			3	3	3	3	3	3	3	3		
	STD-8	WASHER, Plain, 1/4 in.	9	9	9	9	9	9			9	9	9	9	9	9	9	9		
	STD-1409	NUT, Slotted shear, 1/4-20	3	3	3	3	3	3			3	3	3	3	3	3	3	3		
7	STD-33	WASHER, Plain, 3/8 in.	1	1	1	1	1	1			1	1	1	1	1	1	1	1		
8	STD-872	NUT, Slotted, 3/8-24	1	1	1	1	1	1			1	1	1	1	1	1	1	1		
9	STD-1197	BOLT, Hex. hd., 3/8-24 x 3-1/2 in. long	2	2	2	2	2	2			2	2	2	2	2	2	2	2		
	STD-1197*	BOLT, Hex. hd., 3/8-24 x 3-1/2 in. long						2										2		
	STD-33	WASHER, Plain, 3/8 in.	2	2	2	2	2	2			2	2	2	2	2	2	2	2		
	STD-678	WASHER, Internal lock, 3/8 in.	2	2	2	2	2	2			2	2	2	2	2	2	2	2		
	STD-596	NUT, Plain, 3/8-24	2	2	2	2	2	2			2	2	2	2	2	2	2	2		
	STD-33	WASHER, Plain, 3/8 in.						4										4		
10	LW-10573*	BOLT, Crankcase attaching, special, 3/8-24. Assemble in upper front main bearing crankcase attaching hole with hex. hd. on left crankcase.						1										1		
11	LW-10574*	SPACER, Crankcase bolt. Assemble on right crankcase side.						1										1		
12	76220	STUD, 1/2-20 x 10-45/64 in. long	4	4	4	4	4	4			4	4	4	4	4	4	4	4		

\* - McCulloch installation.



O-360-A2D,-C2C (SPECIAL)



WIDE CYLINDER FLANGE CRANKCASE

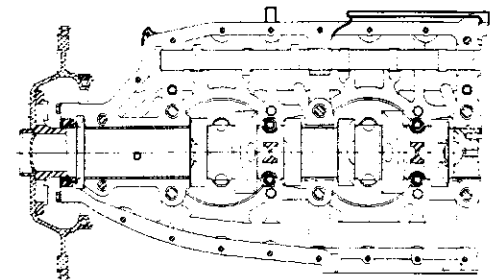
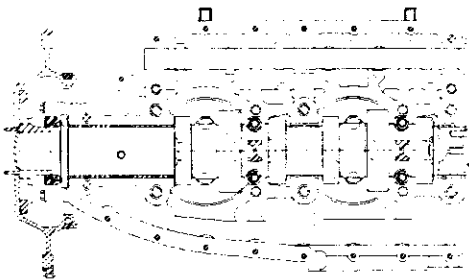


Figure 6. Crankcase Attaching Parts (Wide Cylinder Flange Crankcase Engines)

CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

STARTER RING GEAR SUPPORTS

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																SECTION			
			O-360 SERIES																HO-360	1		
			A1A	A2A	A3A	A4A	A5A	A6A	A7A	A8A	A9A	A10A	A11A	A12A	A13A	A14A	A15A	A16A	B1A	B1B		
1	72565	SUPPORT ASSY., Starter ring gear 12/14 pitch, 1.91:1 drive ratio - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	
	75221	SUPPORT ASSY., Starter ring gear 12/14 pitch, 2.5:1 drive ratio, de-icing provision - WCF	1	1																		
	77579	SUPPORT ASSY., Starter ring gear 12/14 pitch, 3.25:1 drive ratio, no de-icing provision - WCF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	75030	SUPPORT ASSY., Starter ring gear 12/14 pitch, 3.25:1 drive ratio, de-icing provision - WCF	1	1							1	1						1	1			
	LW-10184	SUPPORT ASSY., Starter ring gear 12/14 pitch, 3.25:1 drive ratio, for alternators. No de-icing - WCF									1											
	LW-10504*	SUPPORT ASSY., Starter ring gear 12/14 pitch, 3.25:1 drive ratio, for 7MM and 11MM belts - WCF									1											
	72565	SUPPORT ASSY., Starter ring gear 12/14 pitch, 1.91:1 drive ratio - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75221	SUPPORT ASSY., Starter ring gear 12/14 pitch, for high speed generators	1																			
2	72566	GEAR, Starter ring (12/14 pitch)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

\* - McCulloch Installation

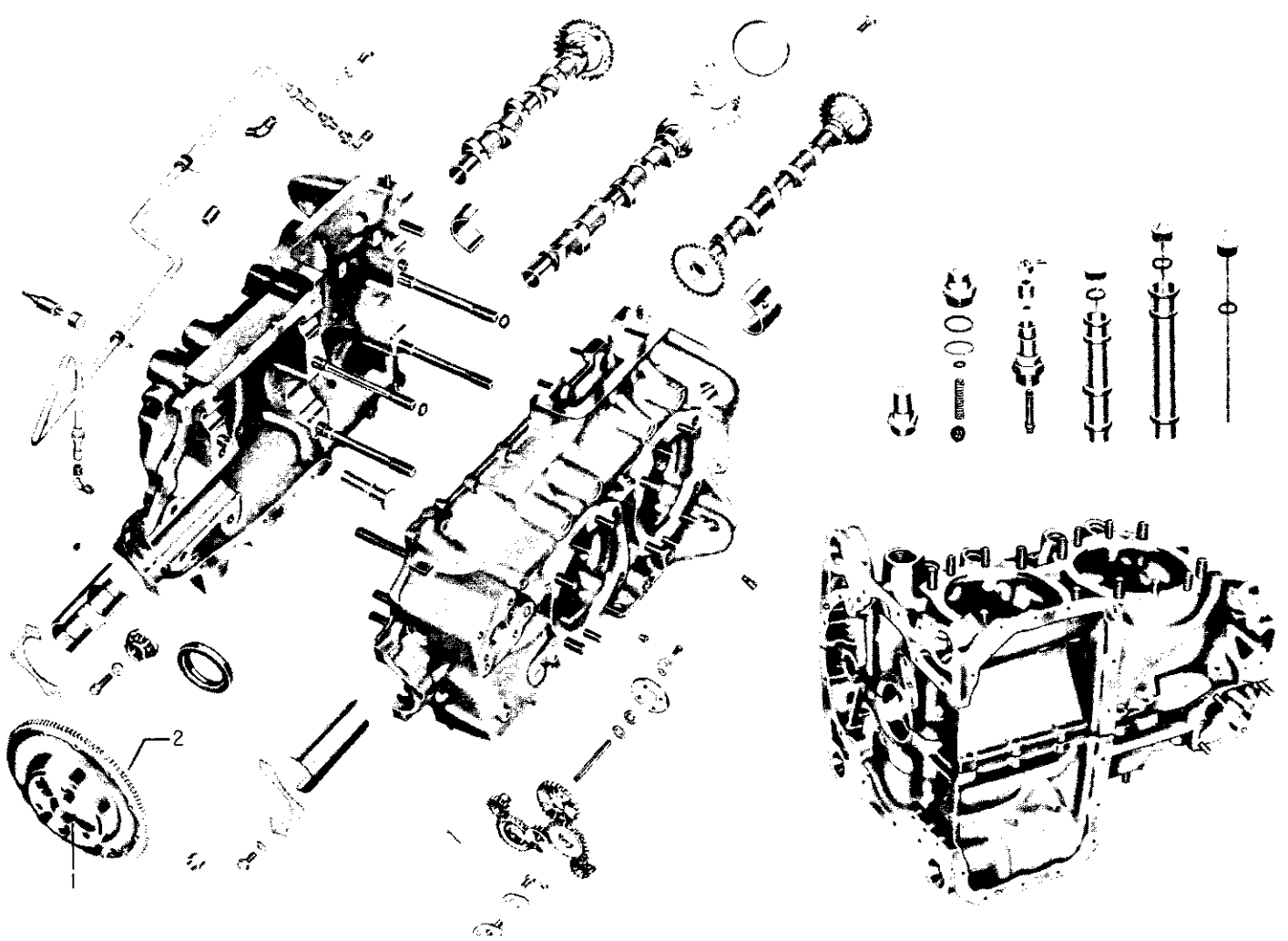


Figure 7. Starter Ring Gear Support





CRANKCASE, CRANKSHAFT AND CAMSHAFT GROUP

PROPELLER GOVERNOR OIL TUBE ASSEMBLIES\*

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																SECTION								
			O-360 SERIES																HO-360	1							
			A1A	A2A	A3A	A4A	A1C	A2C	A3C	A4C	A1E	A2E	A3E	A4E	A1G	A2G	A3G	A4G	C1A	C2A	C3A	C4A	D2A	D3A	E1A	E2A	
1	68532	TUBE ASSY., Prop. Gov. oil line - STD	1	1					1	1																	
	71011	TUBE ASSY., Prop. Gov. oil line - STD	1							1																	
	71622	TUBE ASSY., Prop. Gov. oil line - STD	1							1																	
	71612	TUBE ASSY., Prop. Gov. oil line - STD	1							1																	
	75758	TUBE ASSY., Prop. Gov. oil line - STD	1							1																	
2	STD-1401	SLEEVE, 5/16 in. flared tube - STD	2	2																	2						
	AN819-6	SLEEVE, 3/8 in. flared tube - STD	2	2																	2						
3	STD-1400	NUT, Flared tube 5/16 in. - STD	2	2																	2						
	STD-1126	NUT, Flared tube coupling - STD	2	2																	2						
4	STD-8	WASHER, Plain, 1/4 in. - STD	1	1						1	1										1						
5	68604	CLIP, Cushion type, 5/16 in. ID for 1/4 in. dia. screw - STD	2	2																	2						
	71621	CLIP, Cushion type, 3/8 in. ID for 1/4 in. dia. screw - STD	2	2																	2						
6	AN822-5-4D	ELBOW, 5/16 in. flared tube and 1/4 in. NPT, 90° (Assemble in right crankcase front) - STD	1	1						1	1										1						
	STD-700	ELBOW, 3/8 in. flared tube and 1/4 in. NPT, 90° (Assemble in right crankcase front) - STD	1								1																
7	75738	NIPPLE, 5/16 in. flared tube and 9/16-18 str. thread (Assemble in prop. gov. adapter) - STD - Not Illustrated	1	1							1	1									1						
8	74070	ELBOW, 3/8 in. flared tube and 9/16-18 str. thread, 45° - STD	1									1															
9	75686	ELBOW, 5/16 in. flared tube and 9/16-18 str. thread, 90° - STD	1										1														
10	75167	TUBE ASSY., Prop. Gov. oil line - WCF	1			1					1	1	1								1	1					
	75166	TUBE ASSY., Prop. Gov. oil line - WCF	1									1															
	76617	TUBE ASSY., Prop. Gov. oil line - WCF	1									1															
11	STD-1930	HOSE, 3/8 ID x 1.00 in. long - WCF	1									1	1	1							1	1					
12	75165	CLIP, Prop. Gov. oil line support - WCF	1									1	1	1							1	1					
	71621	CLIP, Cushion type, 3/8 in. ID for 1/4 in. dia. screw - WCF	1									1	1	1							1	1					
13	STD-35	WASHER, Plain, 5/16 in. - WCF	3									3															
14	STD-475	WASHER, Internal lock, 5/16 in. - WCF	1									1															
15	STD-1838	BOLT, Hex. hd., 5/16-18 x 15/16 in. long - WCF	1									1															
	STD-700	ELBOW, 3/8 in. flared tube and 1/4 in. NPT, 90° (Assemble in right crankcase front) - WCF	1									1	1	1							1	1					
	74070	ELBOW, 3/8 in. flared tube and 1/4 in. NPT, 45° (Assemble in prop. gov. adapter) - WCF	1									1	1	1							1	1					
16	75739	NIPPLE, 3/8 in. flared tube and 9/16-18 str. thd. (Assemble in prop. gov. adapter) - WCF	1									1															

\* - Above listings are optional for designated engines. Difference lies in tubing size.

NOTE: Items 2, 3 and 4 above are detail parts of tube assembly.

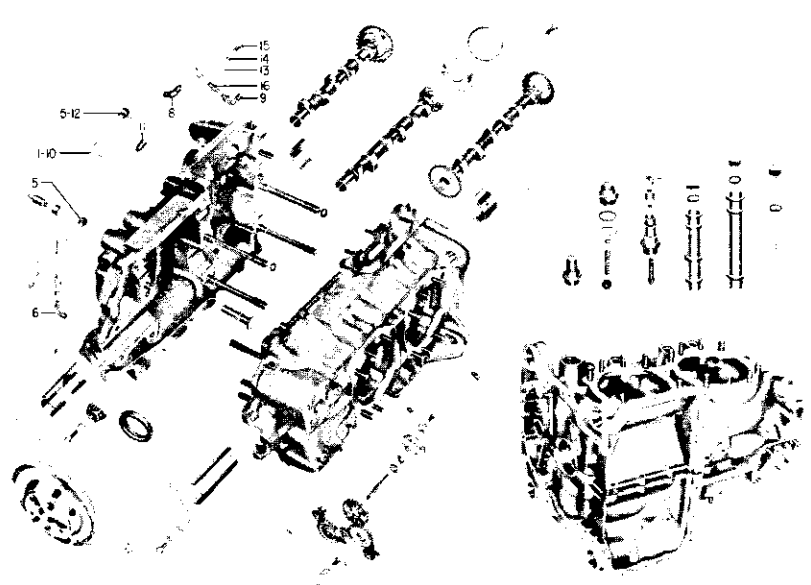


Figure 9. Propeller Governor Oil Tube Assemblies

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 2

ACCESSORY HOUSING AND ACCESSORY DRIVES







ACCESSORY HOUSING AND ACCESSORY DRIVES  
ACCESSORY HOUSING ASSEMBLY (INTEGRAL CAM GEARS)

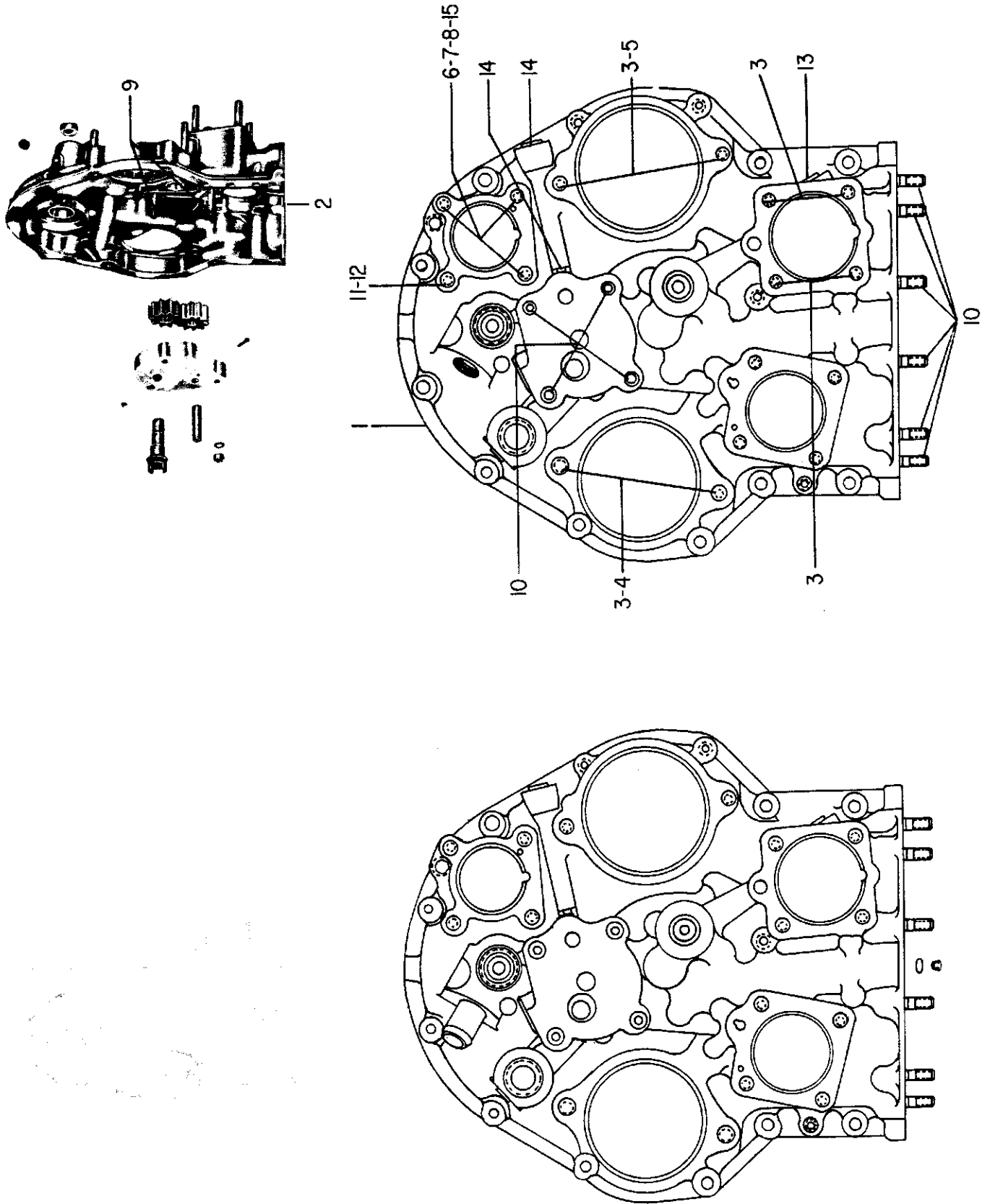


Figure 11. Accessory Housing Assembly  
(Integral Cam Gears)

ACCESSORY HOUSING AND ACCESSORY DRIVES

OIL PUMP ASSEMBLY AND ACCESSORY HOUSING ATTACHING PARTS

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																								SECTION 2	
			O-360 SERIES																		HO-360						PAGE 2-3	
			A1A	A2A	A3A	A4A	A5A	A6A	A7A	A8A	A9A	A10A	A11A	A12A	A13A	A14A	A15A	A16A	A17A	A18A	B2A	C1A	C2A	C3A	C4A	D1A	D2A	B7A
1	76354	BODY ASSEMBLY, Oil pump	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	60329	SHAFT, Oil pump idler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	STD-714	PIN, Cotter, 1/8 in. dia. x 1.00 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	STD-1339	PLUG, Allen hd., 1/16 in. -27 NPT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	61174	SHAFT, Oil pump drive	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	60746	IMPELLER, Oil pump driving	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	60747	IMPELLER, Oil pump driven	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	STD-35	WASHER, Plain, 5/16 in.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	STD-1420	NUT, slotted, 5/16 in.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
10	61165	SEAL, Tachometer drive, oil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	STD-8*	WASHER, Plain, 1/4 in.	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
12	STD-160	WASHER, Internal lock, 1/4 in.	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
13	STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
14	STD-1414	BOLT, Hex. hd., 1/4-20 x 1-1/2 in. long	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		* - Items 11 through 14 above are accessory housing attaching parts.																										

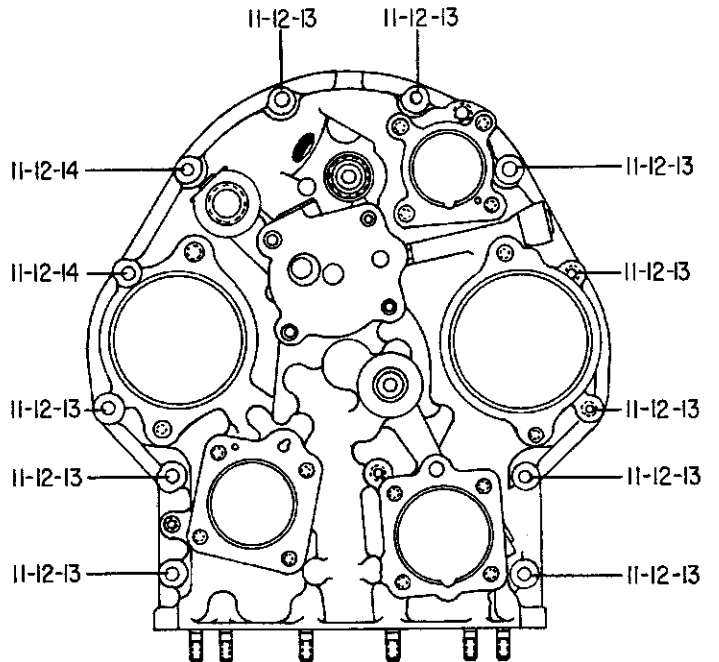
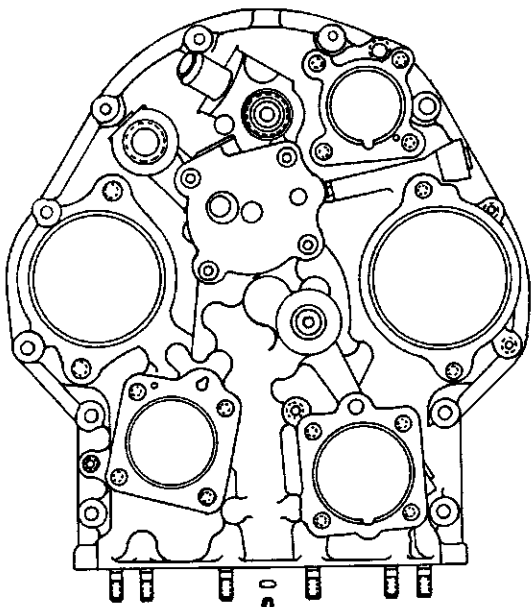
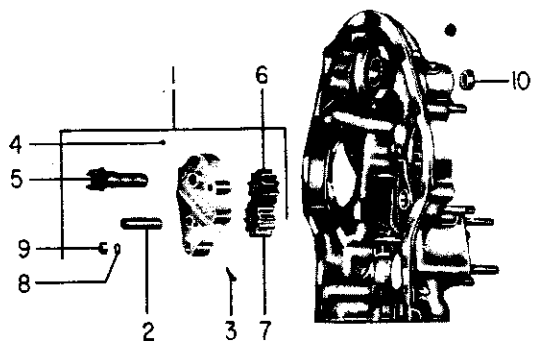
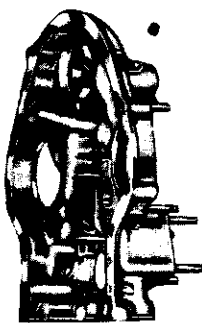


Figure 12. Oil Pump Assembly and Accessory Housing Attaching Parts



ACCESSORY HOUSING AND ACCESSORY DRIVES

OIL COOLER BYPASS VALVE

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																					
			O-360 SERIES															HO-360						
			A1A	A2A	A3A	A4A	A1C	A1D	A2D	A1E	A1F	A1G	A2G	A1H	B2A	C1A	C1C	C2A	C2C	C2D	D2A	D2B	E1A	E1B
1	69436*	SPRING, Oil cooler bypass - STD	1	1	1												1	1						
2	62415*	PLUNGER, Oil cooler bypass - STD	1	1	1												1	1						
3	STD-294**	GASKET, 7/8 in. OD x 5/8 in. ID x 3/32 in. annular - STD	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
4	62417*	PLUG, Oil cooler bypass - STD	1	1	1												1	1	1	1	1	1	1	1
5	STD-784	PLUG, Allen hd., 3/8-18 NPT - STD	2	2	2		2	2	2					2		2	2	2	2	2	2	2	2	2
6	71140*	FITTING, Breather. Assembly in accessory housing - STD	1	1	1		1	1	1	1				1		1	1	1	1	1	1	1	1	1
7	69675+	CONNECTOR, Accessory hsg. to cooler inlet hose - STD	1	1	1		1	1	1	1				1		1	1	1	1	1	1	1	1	1
8	71600C	ADAPTER, Oil cooler connection - STD	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
9	71623#	WASHER, Oil cooler fitting - STD	1	1	1		1	1	1															
10	AN777-8D#	ELBOW UNIVERSAL, 75° - STD	1	1	1		1	1	1															
11	AN901-8A#	GASKET, Metal tube conn. seal - STD	1	1	1		1	1	1															
12	71620#	BOLT, Oil cooler fitting - STD	1	1	1		1	1	1															
13	72413#	FITTING, Breather (120° elbow, assemble in accessory hsg.) - STD	1	1	1		1	1	1															
14	78948&	ELBOW, 45°					1	1	1															
	69436*	SPRING, Oil cooler bypass - WCF					1																	
	62415*	PLUNGER, Oil cooler bypass - WCF					1																	
	STD-294**	GASKET, 7/8 in. OD x 5/8 in. ID x 3/32 in. annular - WCF	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	62417*	PLUG, Oil cooler bypass - WCF					1																	
	STD-784**	PLUG, Allen hd., 3/8-18 NPT - WCF	2	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	STD-784	PLUG, Allen hd., 3/8-18 NPT - WCF	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	69675	CONNECTOR, Accessory hsg. to oil cooler inlet hose - WCF	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	71600C	ADAPTER, Oil cooler connection - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
	71623#	WASHER, Oil cooler fitting - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
	AN777-8D#	ELBOW, Universal 75° - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
	AN901-8A#	GASKET, Metal tube conn. seal - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
	71620#	BOLT, Oil cooler fitting - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
	72413#	FITTING, Breather, 120° elbow (assemble in accessory hsg.) - WCF	1	1	1		1	1	1					1		1	1	1	1	1	1	1	1	1
15	AN823-8	ELBOW, 1/2 in. flared tube, 3/8 in. pipe thread - WCF					1																	
16	AN844-10D	ELBOW, Pipe thd., 5/8 in. ID hose, 45° - WCF	1	1	1																			

\* - Not required with thermostatic oil cooler bypass valve.

\*\* - Not applicable to standard crankcase model engines, O-360-A1A, -A1D, -A2D Beech installations.

+ - Not applicable to standard crankcase model engine, O-360-A2D.

ç - Requires STD-294 gasket.

# - Applicable only to Beech installations.

& - Applicable only to Piper installation on O-360-A1D standard crankcase model engine.

\*\* - Not applicable to wide cylinder flange engine models, O-360-A1A, -A2A, -A3A, -A2C Beech installations.

\*\*\* - Not applicable to wide cylinder flange engine model O-360-A3A Piper installation.

ACCESSORY HOUSING AND ACCESSORY DRIVES

OIL COOLER BYPASS VALVE

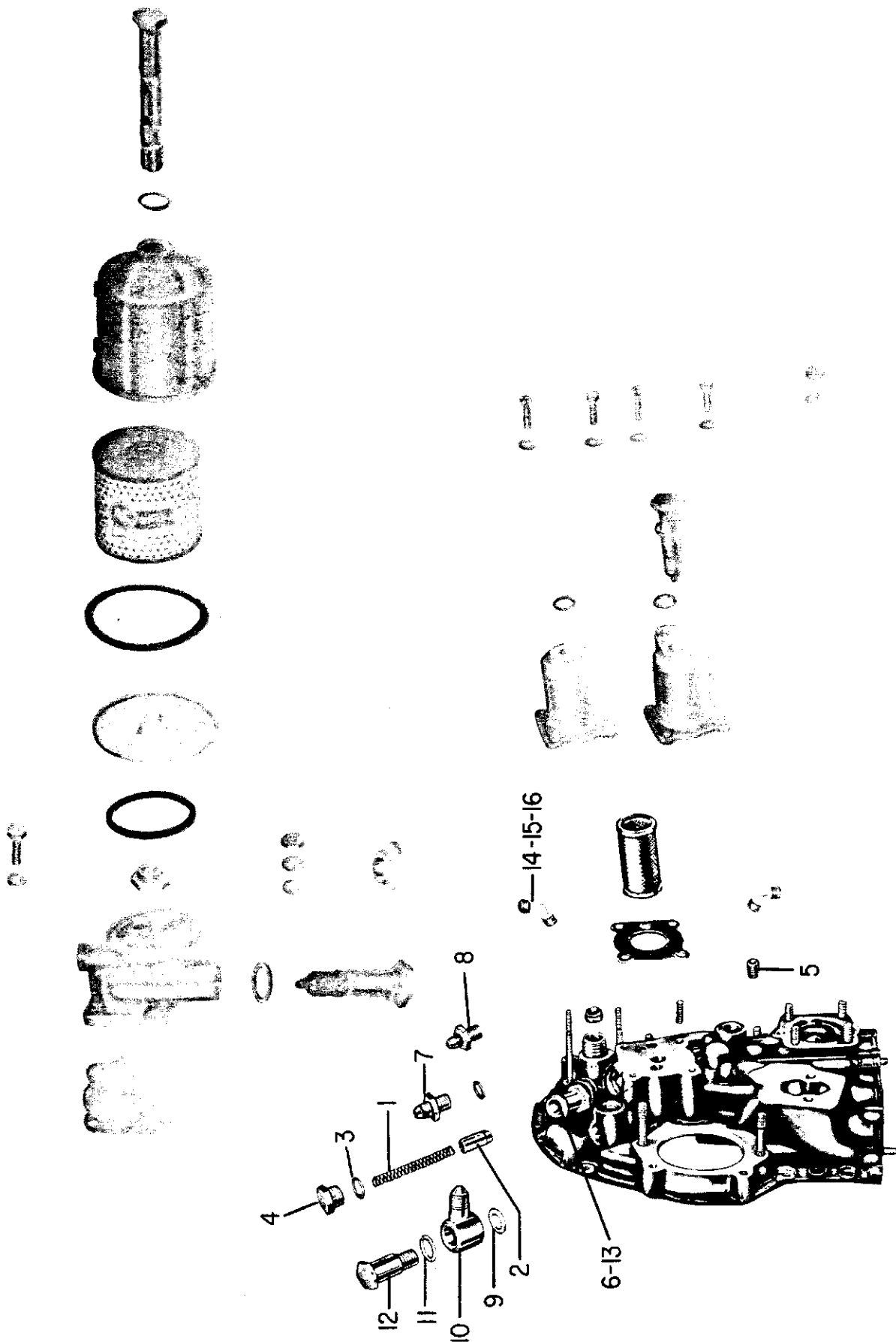


Figure 13. Oil Cooler Bypass Valve



ACCESSORY HOUSING AND ACCESSORY DRIVES  
 OIL PRESSURE SCREEN HOUSING AND OIL FILTER ASSEMBLY

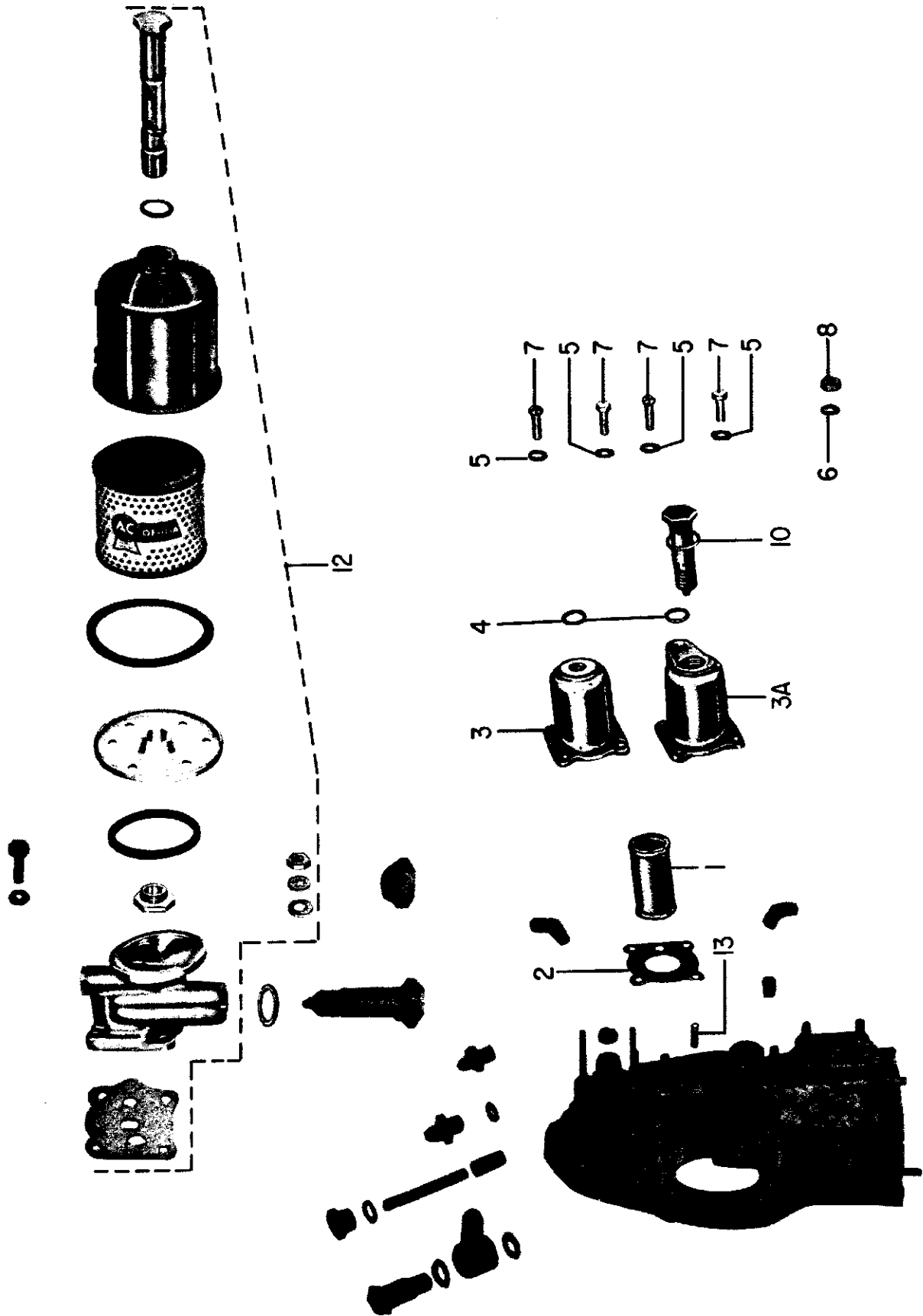


Figure 14. Oil Pressure Screen Housing and Oil Filter Assembly



ACCESSORY HOUSING AND ACCESSORY DRIVES

PROPELLER GOVERNOR DRIVES, COVERS AND ATTACHING PARTS

SECTION  
2  
PAGE  
2-7

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																		
			O-360 SERIES																		
			A1A	A2A	A3A	A4A	A1C	A1D	A1E	A1F	A1G	A1H	B1A	C1A	C1C	C2A	C2B	C2C	D2A	D2B	HO-360
																			B7A	B7B	
1	68317	SHAFTGEAR PROP.GOV.DRIVE - WCF	1					1	1	1				1	1						
2	71596	WASHER, Accessory drivengear - WCF	1					1	1	1				1	1						
3	STD-1221	RING, internal retaining, 13/16 in. dia. x .042 in. thick - WCF	1					1	1	1				1	1						
4	68315	GASKET, Accessory drive adapter - WCF	1					1	1	1				1	1						
5	75153*	ADAPTER ASSY., Prop. gov. drive - WCF	1					1	1	1				1	1						
	75545**	ADAPTER ASSY., Prop. gov. drive - WCF	1					1	1	1				1	1						
	78594+	ADAPTER ASSY., Prop. gov. drive - WCF	1					1	1	1				1	1						
6	1102	PLUG, Allen hd., 1/8-27NPT - WCF	1					1	1	1				1	1						
7	67556*	STUD, 5/16-18x2.00 in. long - WCF	4					4	4	4				4	4						
	68316**	STUD, 5/16-18x1-11/16 in. long - WCF	4					4	4	4				4	4						
8	STD-1164+	INSERT, Heli-coil, 5/16-18x5/8 in. long - WCF	4					4	4	4				4	4						
9	STD-1774	PIN, 1/8 in. dia. x 1/4 in. long - WCF	1					1	1	1				1	1						
10	STD-35	WASHER, Plain, 5/16 in. - WCF	4					4	4	4				4	4						
11	STD-475	WASHER, Internal lock, 5/16 in. - WCF	4					4	4	4				4	4						
12	STD-1410	NUT, Plain, 5/16-18 - WCF	4					4	4	4				4	4						
13	69551¢	GASKET, Accessory drive adapter - WCF	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	72053#	GASKET, Governor - WCF	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	69106¢	COVER, Gov. drive adapter pad - WCF	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	72378#	COVER, Gov. drive - WCF	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	STD-35¢	WASHER, Plain, 5/16 in. - WCF	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4
18	STD-475¢	WASHER, Internal lock, 5/16 in. - WCF	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4
19	STD-1410¢	NUT, Plain, 5/16 in. - WCF	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4
	STD-35#	NUT, Plain, 5/16 in. (Woodward Gov.) - WCF	32					32	32	32	32	32	32	32	32	32	32	32	32	32	32
	STD-35#	NUT, Plain, 5/16 in. ("AN" Gov.) - WCF	4					4	4	4	4	4	4	4	4	4	4	4	4	4	4
20	STD-1889&	BOLT, Hex. hd., 5/16-18x1-7/8 in. long - WCF	4					4	4	4				4	4						
21	STD-783¢	PLUG, Allen hd., 1/4-18 NPT - WCF (Assemble in right crankcase front)	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1

\* - Woodward governor drive.  
 \*\* - "AN" governor drive.  
 + - "AN" governor drive with cap-screws instead of studs.  
 ¢ - Governor drive pad cover, no drive.  
 # - Propeller governor drive cover.  
 & - Propeller governor drive cover with cap screws instead of studs.  
 NOTE: Items 13 thru 21 above are not illustrated.

ACCESSORY HOUSING AND ACCESSORY DRIVES  
PROPELLER GOVERNOR DRIVES, COVERS AND ATTACHING PARTS

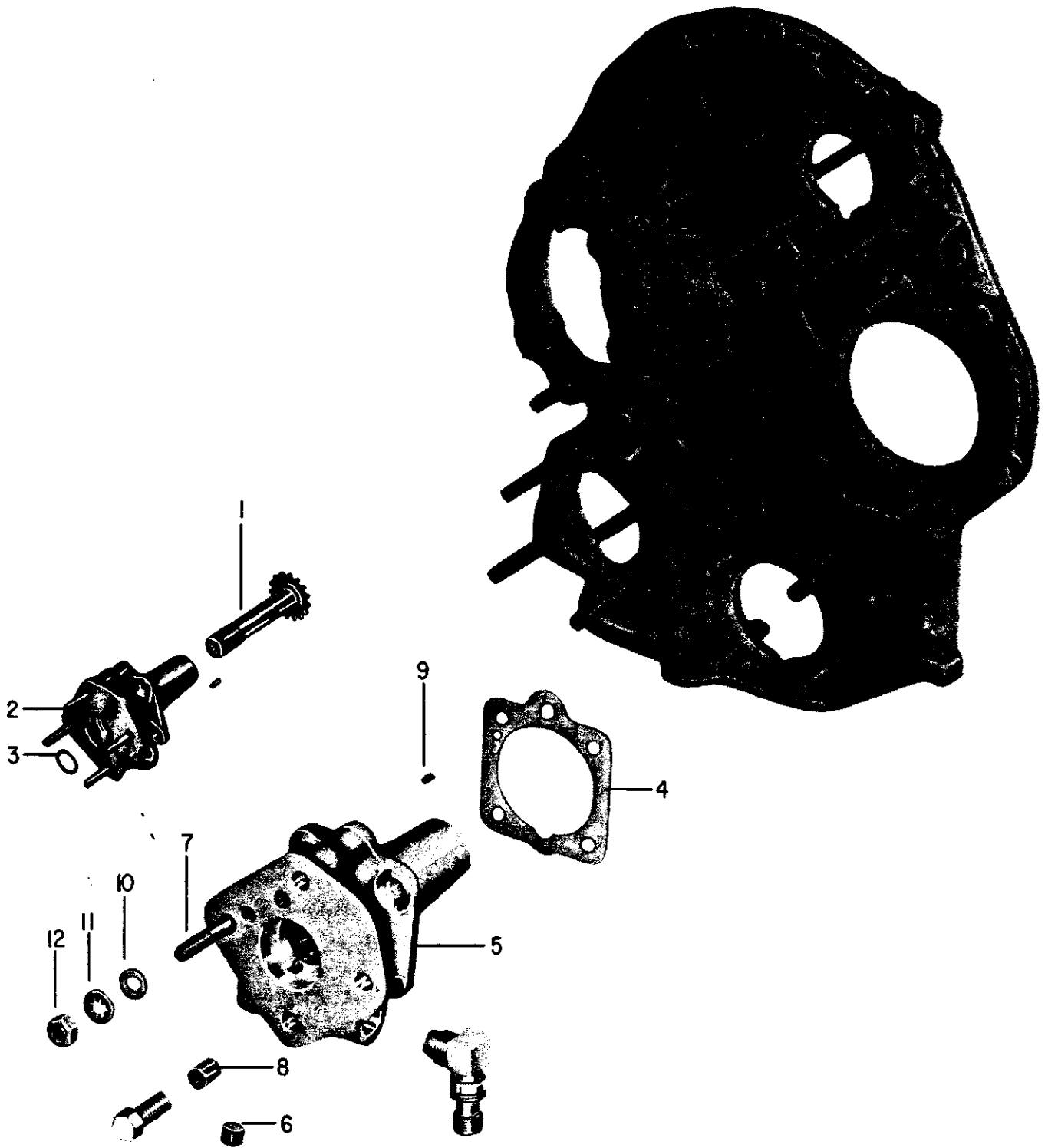


Figure 18. Propeller Governor Drives, Covers and Attaching Parts  
(WCF Engines)

ACCESSORY HOUSING AND ACCESSORY DRIVES

PROPELLER GOVERNOR DRIVES, COVERS AND ATTACHING PARTS

SECTION 2

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																		
			O-360 SERIES																		
			A1A	A1A	A1A	A1C	A1D	A1E	A1F	A1G	A1H	B1A	C1A	C1C	C1E	C1F	D1A	D1B	B1A	B1B	
1	69551	GASKET, Accessory dr. adapter - STD	1	1				1	1											1	1
2	69106	COVER, Gov. drive adapter pad - STD	1	1				1	1											1	1
3	STD-35	WASHER, Plain, 5/16 in. - STD	4	4				4	4											4	4
4	STD-475	WASHER, Internal lock, 5/16 in. - STD	4	4				4	4											4	4
5	STD-1410	NUT, Plain, 5/16-18 - STD	4	4				4	4											4	4
6	STD-783	PLUG, Allen hd., 1/4-18 NPT - STD	1	1				1	1											1	1
7	68315*	GASKET, Accessory dr. adapter - STD	1				1	1													
8	75153*	ADAPTER ASSY., Prop. gov. dr. - STD	1				1	1													
9	1102*	PLUG, Allen hd., 1/8-27 NPT - STD	1				1	1													
10	67556*	STUD, 5/16-18 x 2.00 in. long - STD	1				1	1													
11	STD-1774*	PIN, 1/8 in. dia. x 1/4 in. long - STD	1				1	1													
12	68317*	SHAFTGEAR, Prop. gov. drive - STD	1				1	1													
13	71596*	WASHER, Accessory driven gear - STD	1				1	1													
14	STD-1221*	RING, External retaining 13/16 in. dia. x 0.042 in. thick - STD	1				1	1													
	STD-35*	WASHER, Plain, 5/16 in. - STD	4				4	4													
	STD-475*	WASHER, Internal lock, 5/16 in. - STD	4				4	4													
	STD-1410*	NUT, Plain, 5/16-18 - STD	4				4	4													
15	72053*	GASKET, Governor - STD	1				1	1													
16	72378*	COVER, Governor drive - STD	1				1	1													
	STD-35*	WASHER, Plain, 5/16 in. - STD	32				32	32													
	STD-475*	WASHER, Internal lock, 5/16 in. - STD	4				4	4													
	STD-1410*	NUT, Plain, 5/16 in. - STD	4				4	4													
17	75545**	ADAPTER ASSY., Prop. gov. drive - STD	1				1														
18	68316**	STUD, 5/16-18 x 1-5/8 in. long - STD	1				1														
19	75722+	ADAPTER ASSY., Prop. gov. drive - STD	1																		
20	75686+	ELBOW, 5/16 in. flared tube and 9/16-18 str. thread, 90° - STD	1																		
		* - Propeller governor drive (Woodward Governor).																			
		** - Propeller governor drive ("AN" Governor). Only items 17 and 18 above differ from Woodward Governor installation.																			
		+ - Propeller governor drive (Woodward Governor, Colonial installation). Only items 19 and 20 above differ from original Woodward Governor installation. Original installation is covered by items 7 through 16 above.																			
		NOTE: Items 1 thru 6 and 15 and 16 are not illustrated.																			



ACCESSORY HOUSING AND ACCESSORY DRIVES  
PROPELLER GOVERNOR DRIVES, COVERS AND ATTACHING PARTS

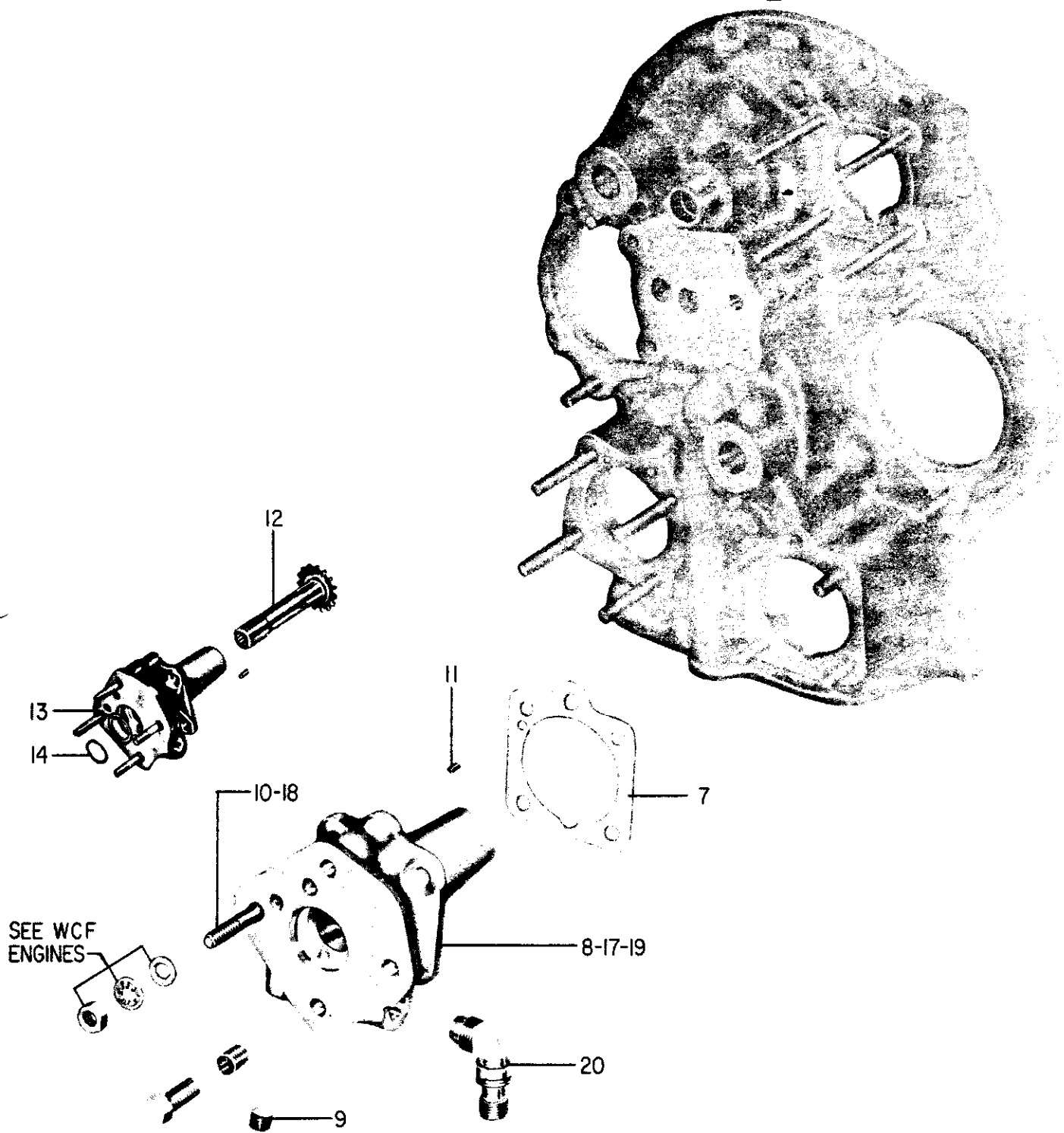


Figure 17. Propeller Governor Drives, Cover and Attaching Parts  
(Std. Crankcase Engines)

ACCESSORY HOUSING AND ACCESSORY DRIVES

VACUUM AND HYDRAULIC PUMP DUAL DRIVE ASSEMBLY

SECTION 2

PAGE 2-9

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																									
			O-360 SERIES																		HO-360							
			A1A	A2A	A3A	A4A	A5A	A6A	A7A	A8A	A9A	A10A	A11A	A12A	A13A	A14A	A15A	A16A	A17A	A18A	A19A	A20A	B1A	B2A	B3A	B4A	B5A	B6A
1	61183	GASKET, Accessory adapter	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	70347*	DUAL DRIVE ASSY., Vacuum pump and hydraulic pump	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	69725	ADAPTER ASSY., Dual accessory dr.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	69724	STUD, 1/4-20 nat'l. form x 3-5/8 in. long	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	61262	STUD, 1/4-20 nat'l. form x 1-17/32 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	66145	DOWEL, 1/4 in. dia. x 1/2 in. long	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	69319	GEAR ASSY., Accessory drive	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	61166	THRUST BUTTON, Vac. pump gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	71596	WASHER, Accessory driven gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	STD-2072	O-RING, Static seal - STD. Not Ill.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	69316	GEAR, Dual accessory drive	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	69730	GEAR ASSY., Accessory idler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	69731	BUSHING, Accessory, idler gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	71596	WASHER, Accessory, driven gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	73231	GEAR ASSY., Vacuum pump driven	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	73232	PLUG, Vacuum pump gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	69720	GASKET, Dual accessory drive adapter cover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	69742	COVER ASSY., Vacuum pump and hydraulic pump drive	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	STD-208	SEAL, 7/8 in. ID x 1-1/2 in. OD x 5/16 in. wide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	STD-548	SEAL, 7/8 in. ID x 1-3/8 in. OD x 5/16 in. wide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	69942	STUD, 1/4-20 nat'l. form x 1-17/32 in. long	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	69722	STUD, 1/4-20 nat'l. form x 1-15/16 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	69318	SHAFT, Accessory idler gear	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	STD-938	DOWEL, 3/32 in. dia. x 11/32 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	STD-1339	PLUG, Allen hd., 1/16-27 NPT	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	STD-8	WASHER, Plain, 1/4 in.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
27	STD-160	WASHER, Int. lock, 1/4 in.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28	STD-1411	NUT, Plain, 1/4-20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	8313	GASKET, Vacuum pump	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
30	60430	COVER, Vacuum pump pad	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31	STD-8	WASHER, Plain, 1/4 in.	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
32	STD-160	WASHER, Internal lock, 1/4 in.	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
33	STD-1411	NUT, Plain, 1/4-20	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
34	STD-696	WASHER, 16/64 ID x 1/2 OD x 1/32 in. thick	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
35	71023	BRACE, Dual drive, vacuum pump and prop. governor support	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36	STD-160	WASHER, Internal lock, 1/4 in.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37	STD-1215	BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

\* - Vacuum and hydraulic dual drive is optional on all engines covered in this catalog.

ACCESSORY HOUSING AND ACCESSORY DRIVES  
 VACUUM AND HYDRAULIC PUMP DUAL DRIVE ASSEMBLY

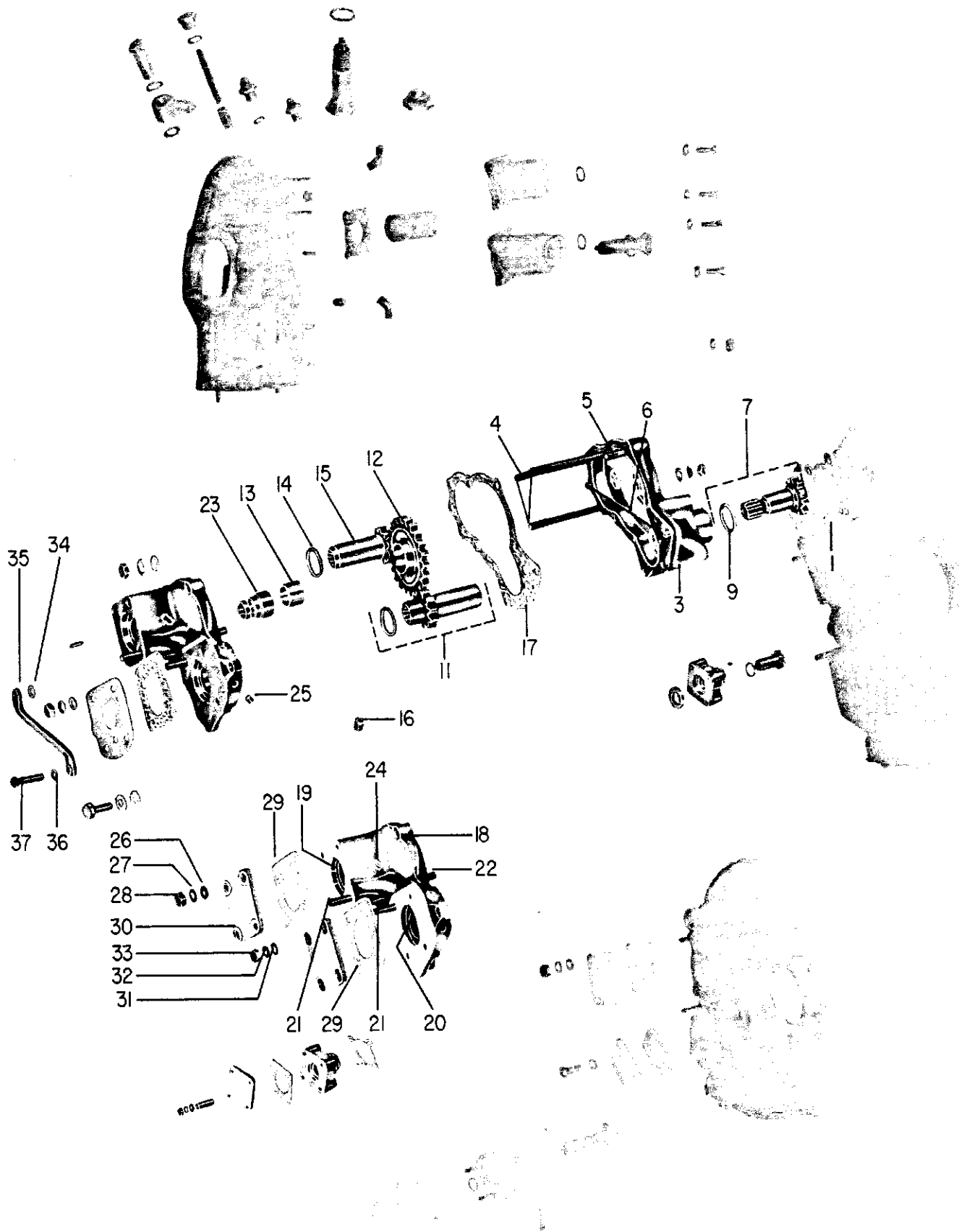


Figure 18. Vacuum and Hydraulic Pump Dual Drive Assembly

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 3

CYLINDER, PISTON AND VALVE TRAIN

CYLINDER PISTON AND VALVE TRAIN

CONNECTING ROD, PISTON AND RING ASSEMBLIES

SECTION  
3  
PAGE  
3-1

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																									
			O-360 SERIES																		HO-360							
			A1A	A2A	A3A	A4A	A1D	A2D	A3D	A4D	A1E	A2E	A3E	A4E	A1H	A2H	A3H	A4H	B2A	C1A	C1C	C2A	C2B	C2C	D2A	D2B	B1A	B1B
1	74502	CONNECTING ROD ASSEMBLY	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2	65819	BUSHING, Connecting rod, upper	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	74644	BOLT, Connecting rod	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4	74646	NUT, Slotted, 3/8-24	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	72218	BEARING, Connecting rod	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	75089	PISTON - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	75089	PISTON - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	75413	PISTON - STD																										
	75413	PISTON - WCF																										
7	69650	PIN, Piston	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8	60828	PLUG, Piston pin - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	72198	PLUG, Piston pin - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	60828	PLUG, Piston pin - WCF	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	72198	PLUG, Piston pin - WCF	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	74241	RING, Piston, compression - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	74673	RING, Piston, compression - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	74989	RING, Piston, compression - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	74241	RING, Piston, compression - WCF	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	74673	RING, Piston, compression - WCF	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
10	73857	RING, Piston, oil reg. expander type - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73998	RING, Piston, oil reg. expander type - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73857	RING, Piston, oil reg. expander type - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73998	RING, Piston, oil reg. expander type - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

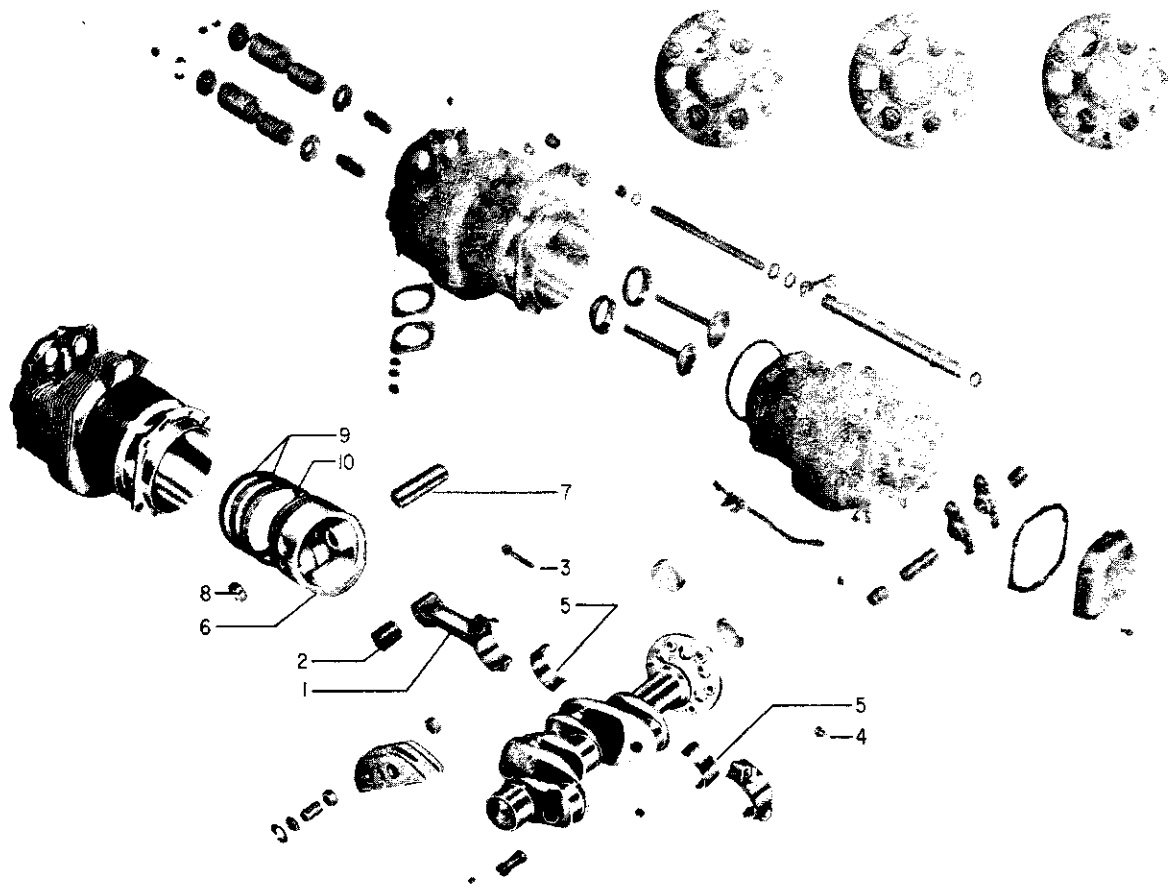


Figure 19. Connecting Rod, Piston and Ring Assembly

CYLINDER, PISTON AND VALVE TRAIN

REF.	PART NUMBER	DESCRIPTION	CYLINDER ASSEMBLY QUANTITY PER ASSEMBLY																								SECTION 3		
			O-360 SERIES																								HO-360		PAGE 3-2
			A1A	A2A	A3A	A4A	A1C	A2C	A3C	A4C	A1E	A2E	A3E	A4E	A1G	A2G	A1H	B2A	C1A	C1C	C2A	C2B	C2C	C2D	D2A	D2B	E1A	E1B	
1	75363	CYLINDER ASSEMBLY - STD	4	4	4	4	4	4	4											4	4	4	4	4	4		4	4	
	75362	CYLINDER ASSEMBLY - STD	4	4																									
	75186	CYLINDER ASSEMBLY - STD																	4										
	75874	CYLINDER ASSEMBLY - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	75971	CYLINDER ASSEMBLY - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
2	72057	SEAT, Intake valve	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
3	72058	SEAT, Exhaust valve	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
4	60028	GUIDE, Valve	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
5	74230	GUIDE, Exhaust valve	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
6	66796	INSERT, Spark plug, 18-1.5MM	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
7	STD-1872*	INSERT, Heli-coil, taper pipe thd. 1/8-27 - WCF	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
8	61261	STUD, 5/16-18 x 1-1/2 in. long	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
9	68510	STUD, 1/4-20 x 1-1/16 in. long	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
10	AN823-8D	ELBOW, 45°, 3/8 in. flared tube cpl.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
11	66610	BUSHING, Rocker shaft	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
12	73938	VALVE, Intake	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
13	74541	VALVE, Exhaust, rotator type	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
14	MS13998-3	CAP, Valve stem, exhaust	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
15	65441	SEAT, Valve spring lower, intake	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
16	74554	SEAT, Valve spring lower, exhaust	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
17	65567	SPRING, Valve inner, auxiliary	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
18	76994	SPRING, Valve outer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
19	LW-10076	SEAT, Valve spring upper, exhaust	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
20	LW-10077	SEAT, Valve spring upper, intake	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
21	MS13997-3	KEY, Valve, exhaust	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
22	1102	PLUG, Allen hd., 1/8-27 NPT - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	1102	PLUG, Allen hd., 1/8-27 NPT - STD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	60009	KEY, Valve intake	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
24	75906	GASKET, Rocker box cover	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
25	61247	COVER, Rocker box	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
26	STD-1925	SCREW, Pan hd., self-locking, 1/4-20 x 5/8 in. long	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	

\* - Applicable to wide cylinder flange model engines only.

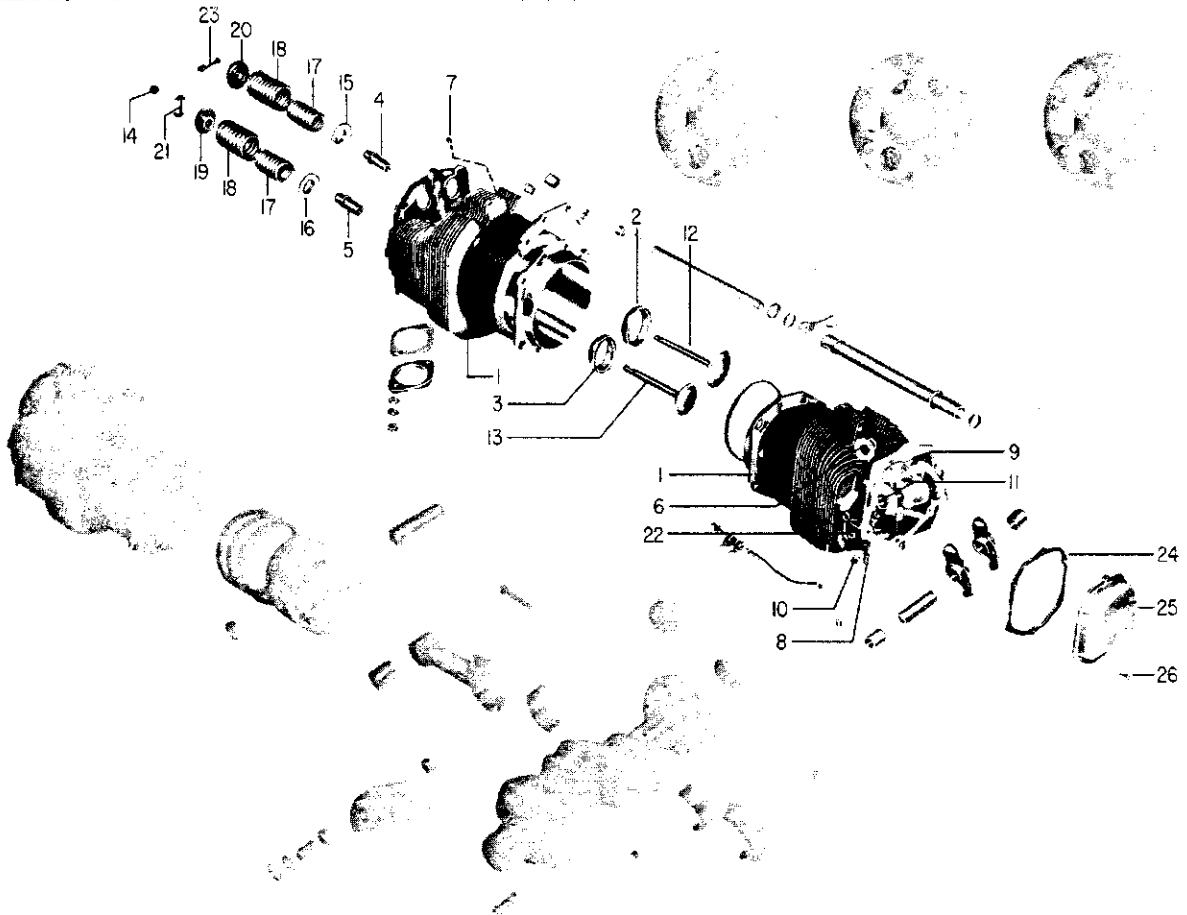


Figure 20. Cylinder Assembly







CYLINDER, PISTON AND VALVE TRAIN

CYLINDER DRAIN TUBES, EXHAUST FLANGE AND GASKETS

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																									
			O-360 SERIES																		HO-360							
			A1A	A2A	A3A	A4A	A1D	A2D	A3D	A4D	A1E	A2E	A3E	A4E	A1F	A2F	A3F	A4F	B1A	B2A	C1A	C1C	C2A	C2B	C2C	D2A	D2B	B1B
1	65321*	GASKET, Exhaust flange - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
2	61260	FLANGE, Exhaust, stainless - WCF	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	65321	GASKET, Exhaust flange - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	61260	FLANGE, Exhaust, stainless - STD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
3	STD-35	WASHER, Plain, 5/16 in. - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4	STD-475	WASHER, Internal lock, 5/16 in - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	STD-1410	NUT, Plain, 5/16-18 - STD	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
6	STD-684	NIPPLE, Str. 3/8 in. dia. hose	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
7	STD-1821	HOSE, 3/8 in. ID x 2-1/2 in. long	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8	STD-1924	CLAMP, Hose, 1/2 to 3/4 in. ID x 5/8 in. wide	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	68759	TUBE ASSY., Cyl. head oil drain, cyl. no. 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	68760	TUBE ASSY., Cyl. head oil drain, cyl. no. 2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	68761	TUBE ASSY., Cyl. head oil drain, cyls. no. 3 and 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	68761**	TUBE ASSY., Cyl. head oil drain, cyl. no. 4	1						1	1																		
12	74428**	TUBE ASSY., Cyl. head oil drain, cyl. no. 3	1						1	1																		

\* - Refer to Avco Lycoming Service Instruction No. 1204 for exhaust flange gasket, P/N 77611.

\*\* - An option for O-360-A1A, -A1D, -A2D (both standard and wide cylinder flange crankcase model engines) includes one P/N 68761 cylinder drain tube, and one P/N 74428 cylinder drain tube.

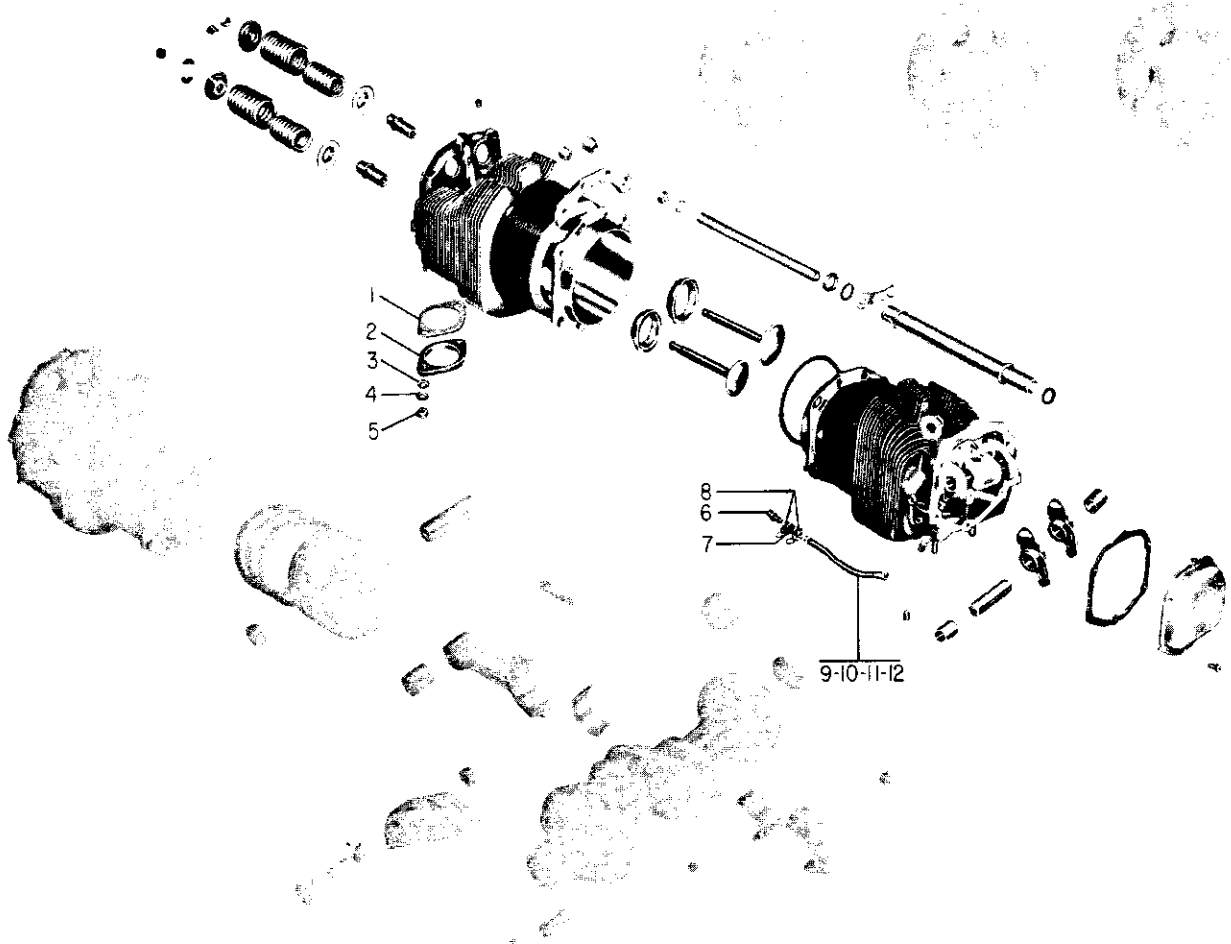


Figure 23. Cylinder Drain Tubes, Exhaust Flange and Gaskets





AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 4

MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS



IGNITION COMPONENTS  
MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

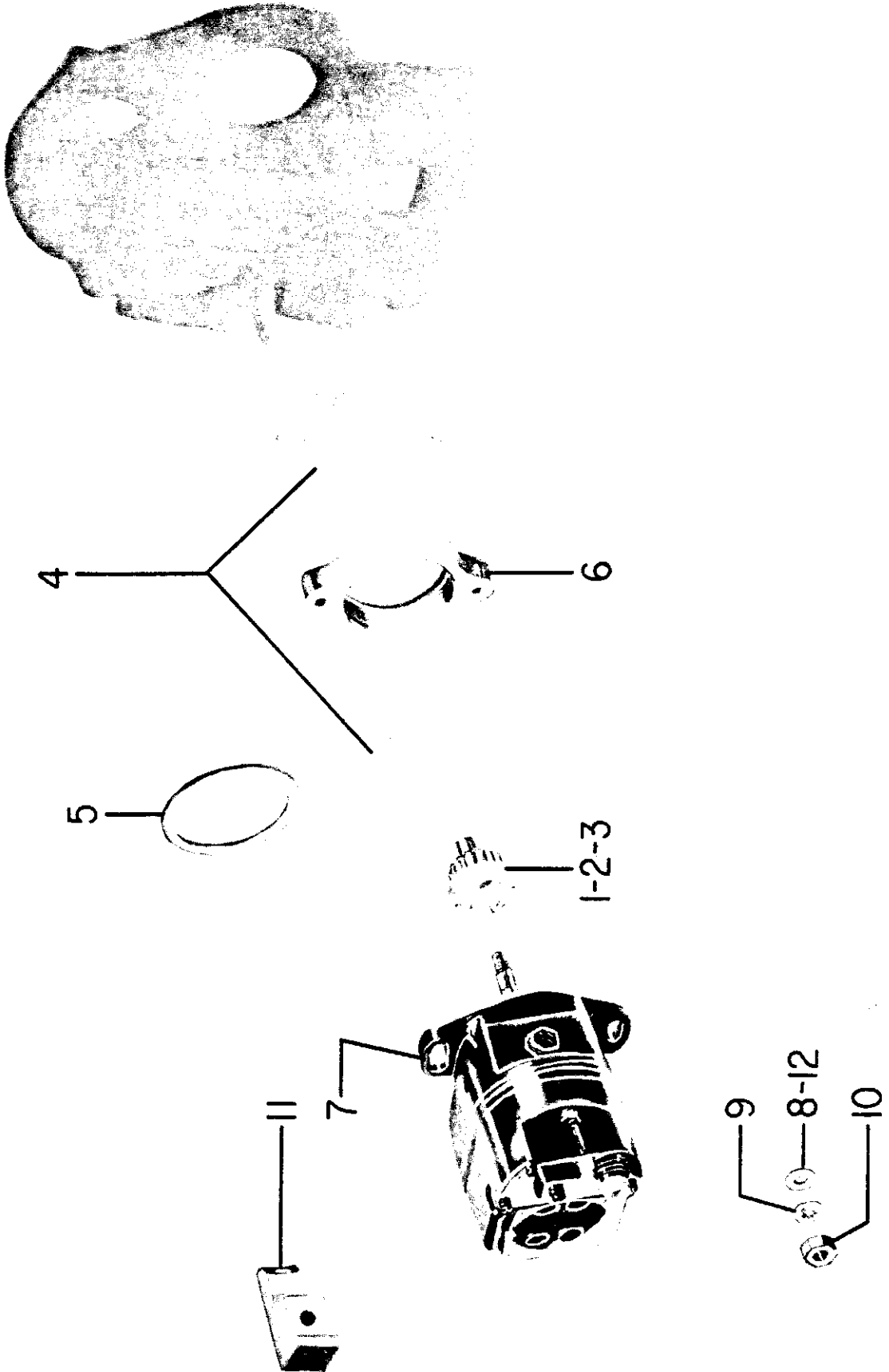


Figure 26. Magnetos, Magneto Drives and Magneto Kits



IGNITION COMPONENTS  
IGNITION HARNESS ASSEMBLY (5MM)

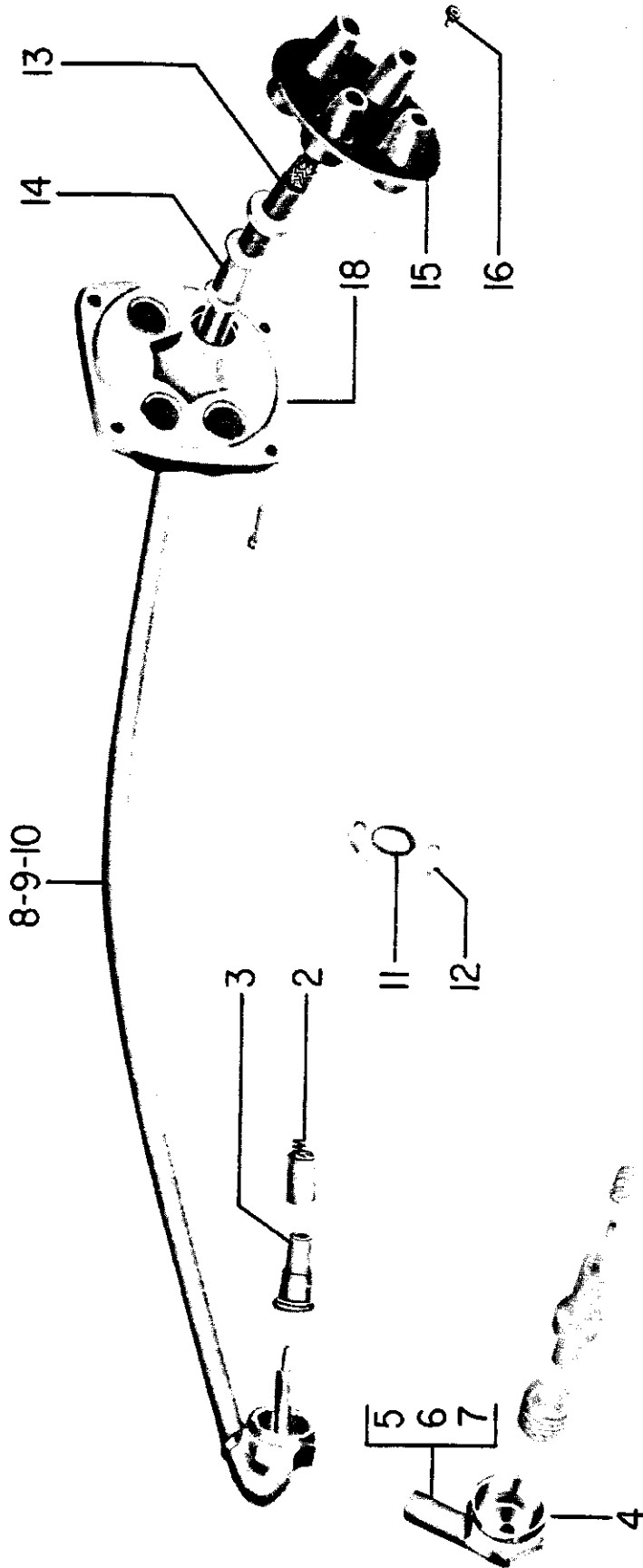


Figure 27. Ignition Harness Assembly (5MM)



IGNITION COMPONENTS

IGNITION HARNESS, UNSHIELDED

SECTION 4

QUANTITY PER ASSEMBLY

HO-360

PAGE 4-3

REF.	PART NUMBER	DESCRIPTION	O-360 SERIES																					
			A1A	A2A	A3A	A4A	A1C	A1D	A2D	A2E	A2F	A2G	A1H	B2A	C1A	C1C	C2A	C2B	C2C	D2A	D2B	E1A	E1B	
1	73729	CABLE AND PLATE ASSY., Ignition, unshielded - STD	1	1																				
2	45664	CABLE, Spark plug - STD																						
3	73726	LOCKCLIP, Spark plug cable term. - STD.	8	8																				
4	73245	EYELET, High tension cable contact - STD	8	8																				
5	61546	SLEEVE, Ignition cable - STD	12	12																				
6	STD-957	GROMMET, 17/64 ID - STD	4	4																				
7	60670	PLATE, Spark plug cable - STD	2	2																				
8	73246	KIT ASSY., Ignition cable unshielded - STD	2	2																				
9	61561	PLATE, Ignition cable outlet unshielded - STD	2	2																				
10	61559	GROMMET, Ignition cable (4-wire) - STD	2	2																				
11	73245	EYELET, High tension cable outlet - STD	8	8																				
12	72351	SCREW, Self-locking, #10-32 - STD	8	8																				

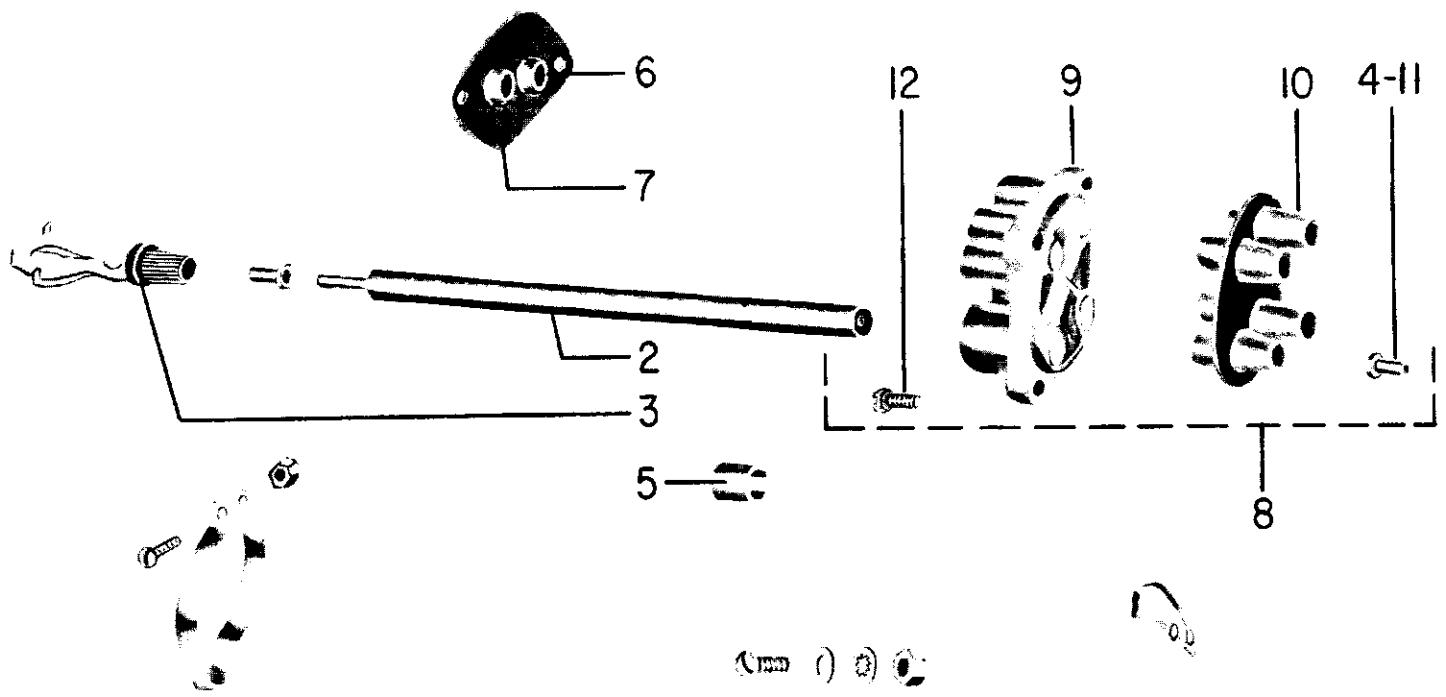


Figure 28. Ignition Harness, Unshielded

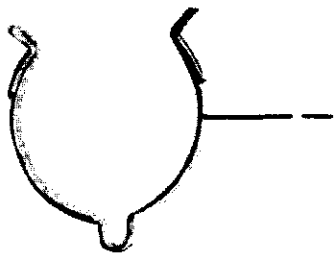
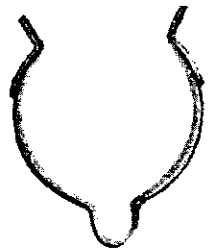








IGNITION COMPONENTS  
IGNITION HARNESS ATTACHING PARTS



12-18



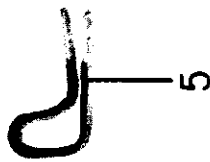
14-20



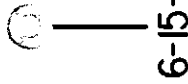
13-19



10-16-22



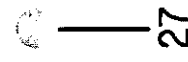
5



6-15-21



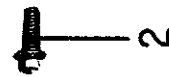
7-29



27



8-30



2



3



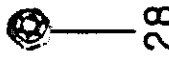
26



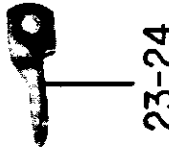
4



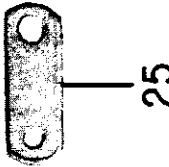
9-31



28



23-24



25

11-17



Figure 32. Ignition Harness Attaching Parts



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 5

ELECTRICAL COMPONENTS





ELECTRICAL COMPONENTS  
 GENERATORS AND ATTACHING PARTS

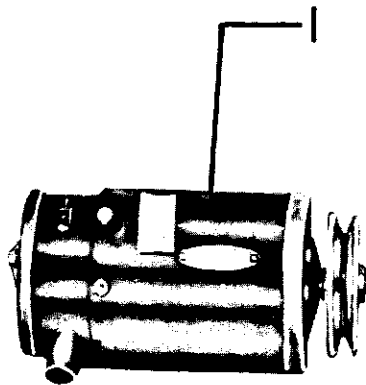
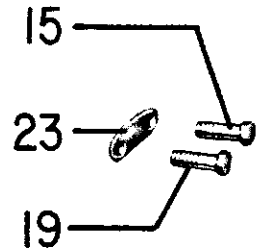
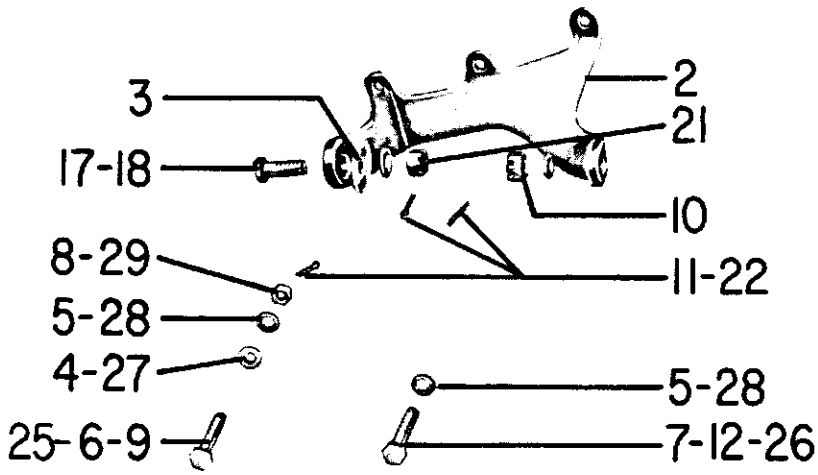
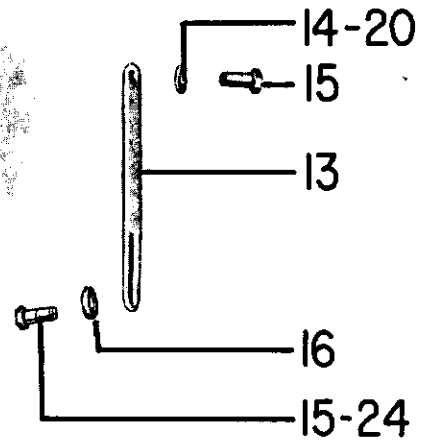
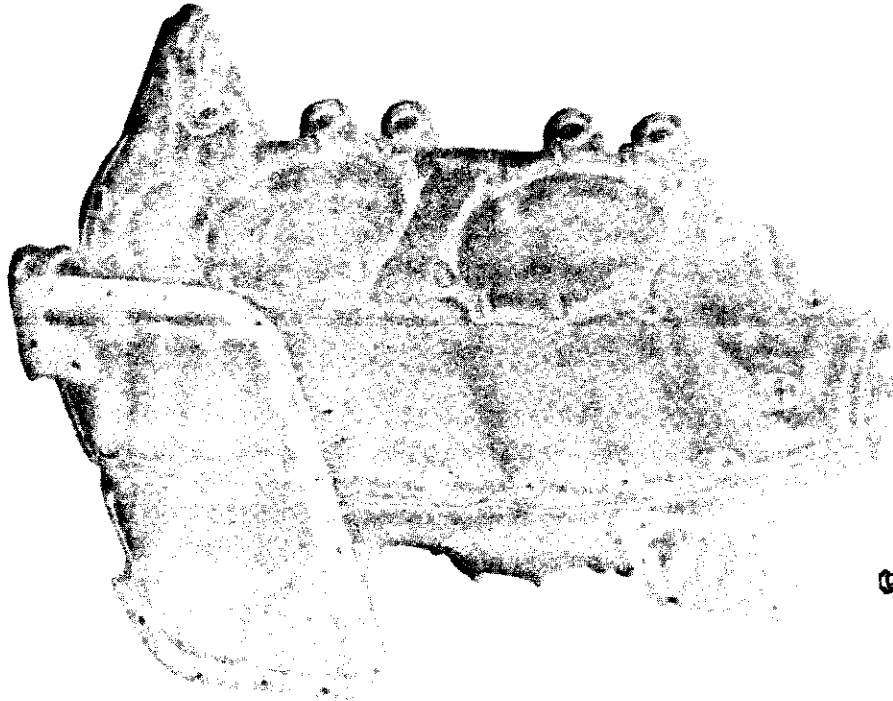


Figure 34. Generators and Attaching Parts  
 (Standard Crankcase Engines)





ELECTRICAL COMPONENTS  
GENERATORS AND ATTACHING PARTS

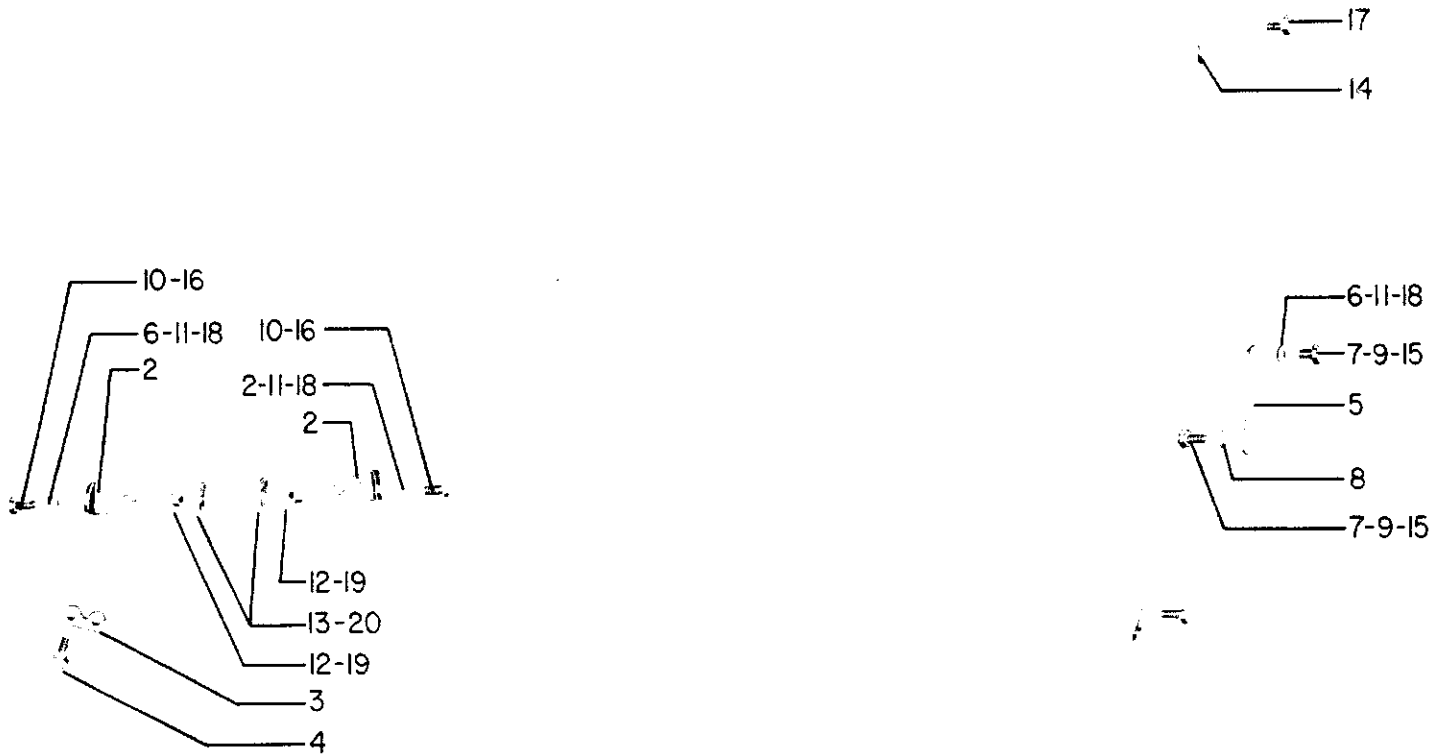


Figure 36. Generators and Attaching Parts  
(WCF Crankcase Engines)





ELECTRICAL COMPONENTS  
 ALTERNATOR AND ATTACHING PARTS

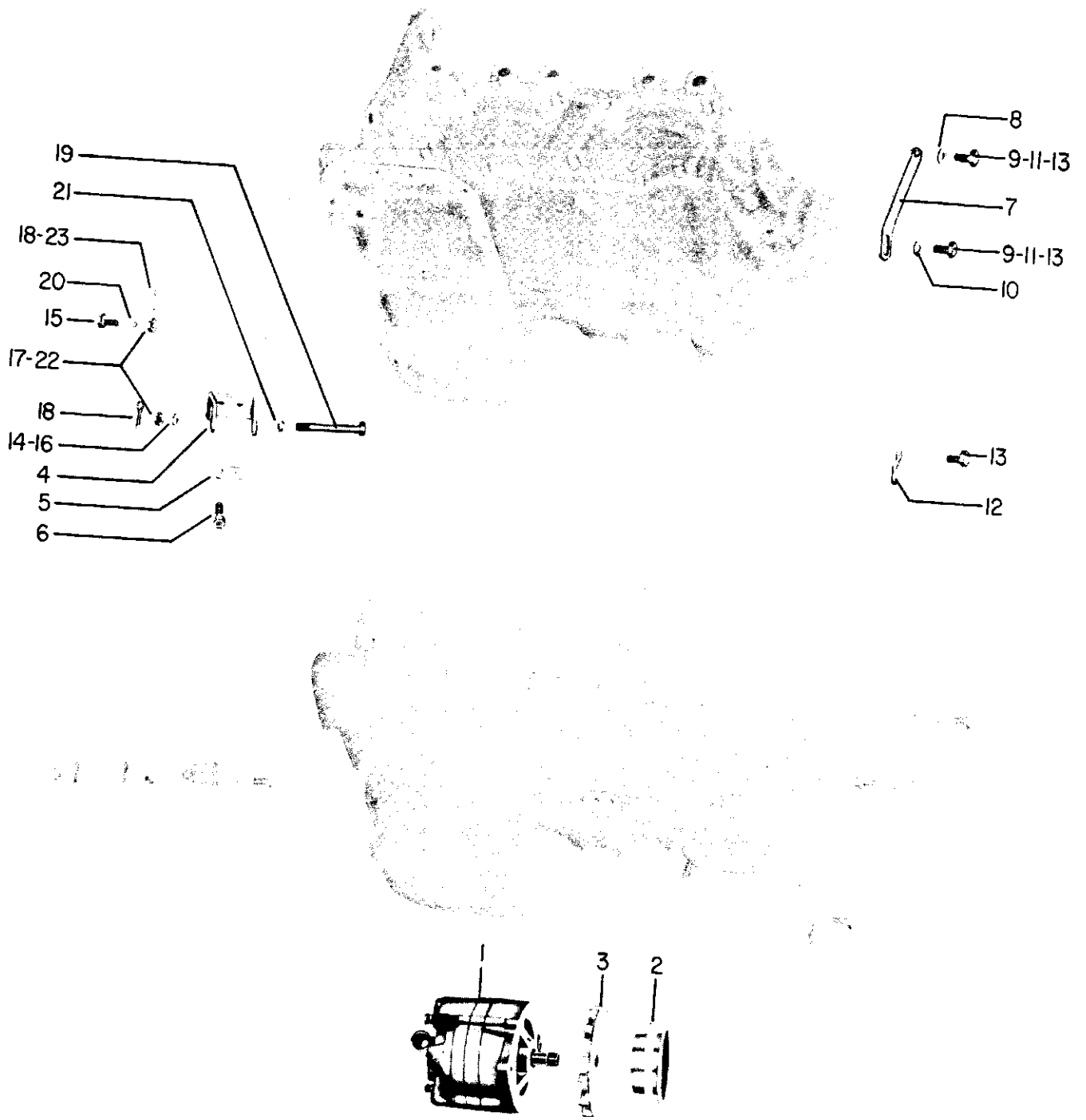


Figure 38. Alternators and Attaching Parts  
 (WCF Crankcase Engines)





ELECTRICAL COMPONENTS  
STARTER ASSEMBLIES AND ATTACHING PARTS

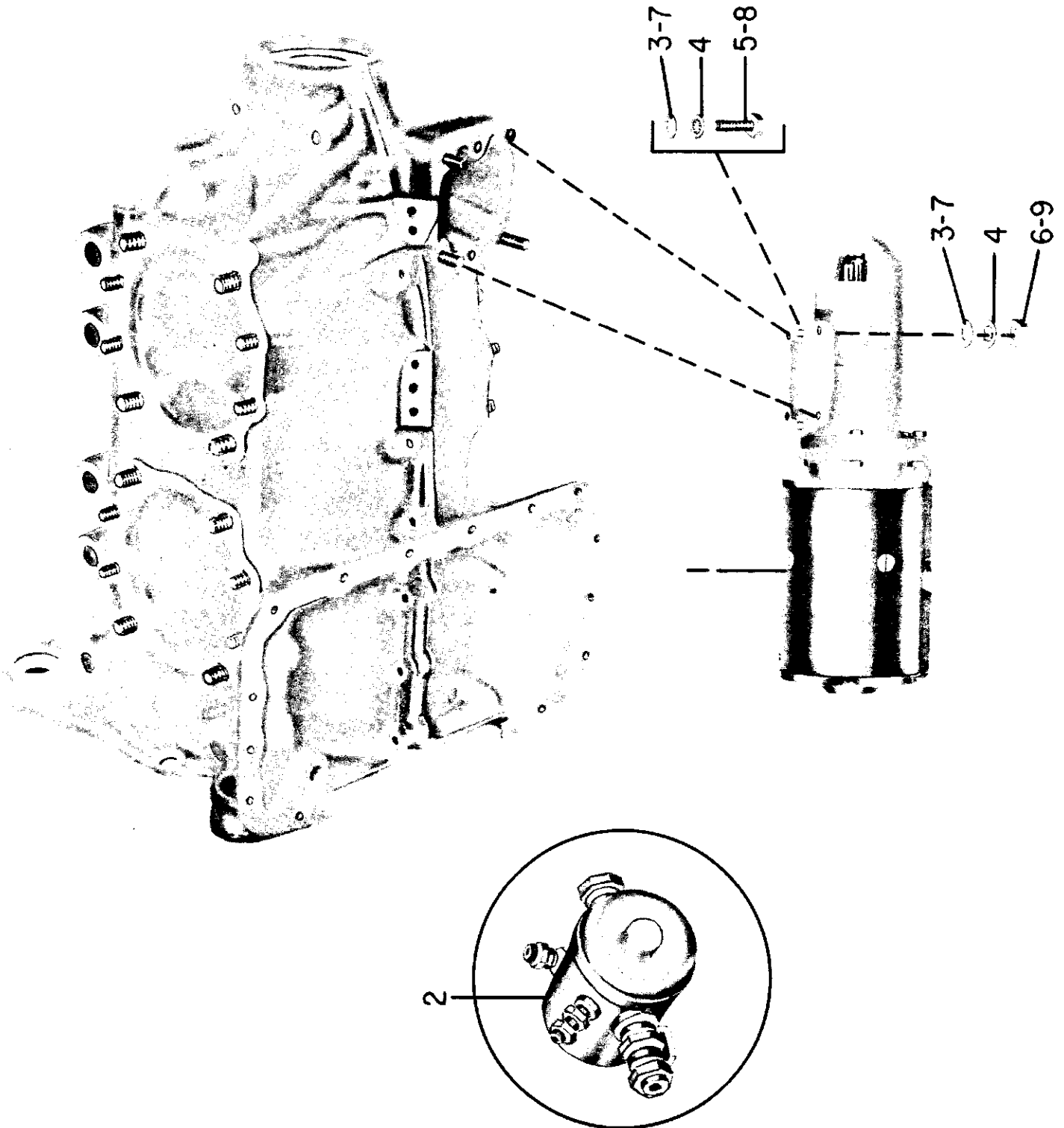


Figure 39. Starter Assemblies and Attaching Parts



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 6

INDUCTION SYSTEM



INDUCTION SYSTEM

FUEL PUMP DRIVES

REF.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSEMBLY																				
			O-360 SERIES												HO-360								
			A1A	A2A	A3A	A1C	A1D	A2D	A3D	A1F	A2F	A3F	A1G	A2G	A3G	B1A	C1A	C1C	C2A	C2C	D2A	D2B	B1E
1	60096	GASKET, Fuel pump - STD	1	1	1			1	1							1	1	1	1	1	1		
2	65098	COVER, Fuel pump - STD	1	1	1			1	1							1	1	1	1	1	1		
3	61544	PLUNGER, Fuel pump, long - STD	1	1	1			1	1						1	1	1	1	1	1	1		
4	STD-33	WASHER, Plain, 3/8 in. - STD	2	2	2			2	2						2	2	2	2	2	2	2		
5	STD-1592	BOLT, Hex. hd., drilled head, 3/8-16 x 3/4 in. long - STD								2											2	2	
6	STD-1882	SCREW, Socket head, drilled head, 3/8-16 x 1-9/32 in. long - STD			2				2							2	2	2	2	2	2		
7	74996	GEAR ASSY., Crankshaft idler, plain - STD																			2	2	
8	77309	BUSHING, Crankshaft idler gear - STD			2				2												2	2	
	74996	GEAR ASSY., Crankshaft idler, plain - STD																			2	2	
	77309	BUSHING, Crankshaft idler gear - STD	1	1	1			1	1						1	1	1	1	1	1	1		
	75072	GEAR ASSY., Crankshaft idler - STD	1	1	1			1	1						1	1	1	1	1	1	1		
	77309	BUSHING, Crankshaft idler gear - STD	1	1	1			1	1						1	1	1	1	1	1	1		
10	72230*	SHAFT, Injector pump, idler gear - STD					1		1									1		1			1
11	72829	LOCKPLATE, 1/4 in. bolt x 1-3/4 inch spacing - STD					1		1									1		1			1
12	STD-705	SCREW, Hex. hd., 1/4-20 x 11/16 in. long - STD					1		1									1		1			1
13	72231	GEAR ASSY., Fuel pump idler - STD					2		2									2		2			2
14	77309	BUSHING, Crankshaft idler gear - STD			1			1	1									1		1			1
15	74996	GEAR ASSY., Crankshaft idler, plain - STD					2		2									2		2			2
16	77309	BUSHING, Crankshaft idler gear - STD			2			2	2									2		2			2
17	75924	SHAFTGEAR ASSY., Fuel pump drive - STD					1		1									1		1			1
18	61166	THRUST BUTTON, Vacuum pump gear STD, Not Illustrated			1			1	1									1		1			1
19	69164	GASKET, Fuel pump adapter - STD			1			1	1									1		1			1
20	69159	ADAPTER ASSY., Fuel pump drive - STD			1			1	1									1		1			1
21	STD-1774	PIN, 1/8 in. dia. x 1/4 in. long - STD			1			1	1									1		1			1
22	STD-213	SEAL, Oil, 3/4 in. ID x 1-3/8 in. OD x 5/16 in. wide - STD					1		1									1		1			1
23	1691-C	GASKET, Fuel pump - STD			1			1	1									1		1			1
24	60431	COVER, Fuel pump - STD			1			1	1									1		1			1
25	STD-35	WASHER, Plain, 5/16 in. - STD			4			4	4									4		4			4
26	STD-475	WASHER, Internal lock, 5/16 in. - STD			4			4	4									4		4			4
27	STD-1410	NUT, Plain, 5/16-18 - STD			4			4	4									4		4			4

\* - Nomenclature, injector pump idler gear shaft, is correct even though no fuel injectors are employed on these engines.

NOTE: Items 10 thru 27 listed above are for "AN" fuel pump drive.

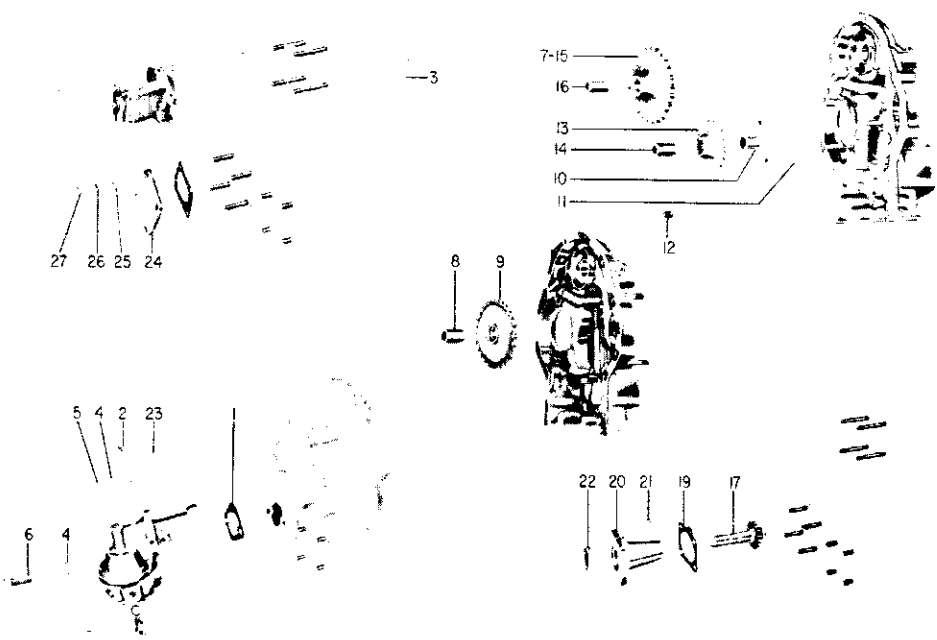


Figure 41. Fuel Pump Drives (Standard Crankcase Engines)







INDUCTION SYSTEM  
SUMP ASSEMBLY

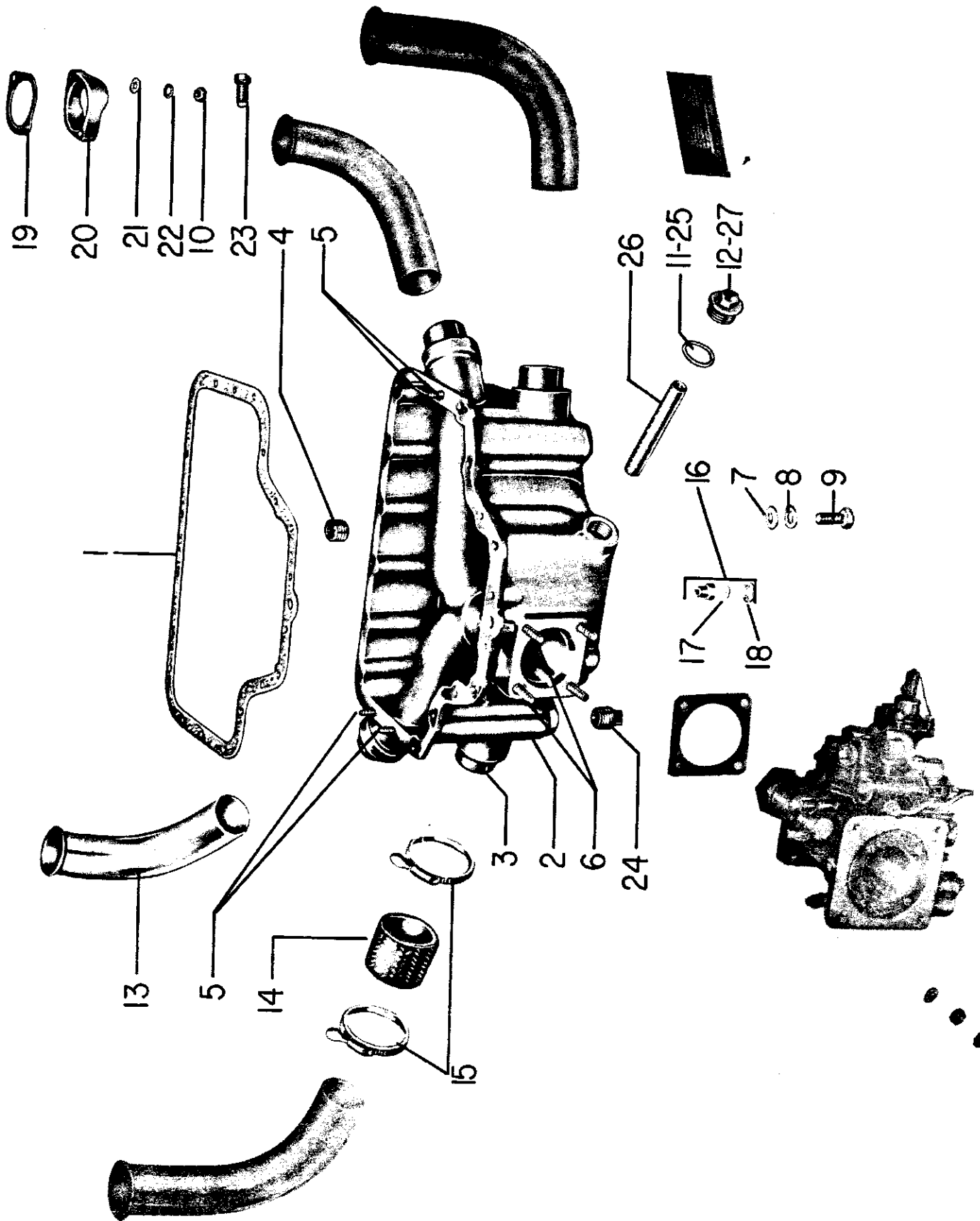


Figure 43. Oil Sump Assembly (Standard Crankcase Engines)



INDUCTION SYSTEM  
SUMP ASSEMBLY

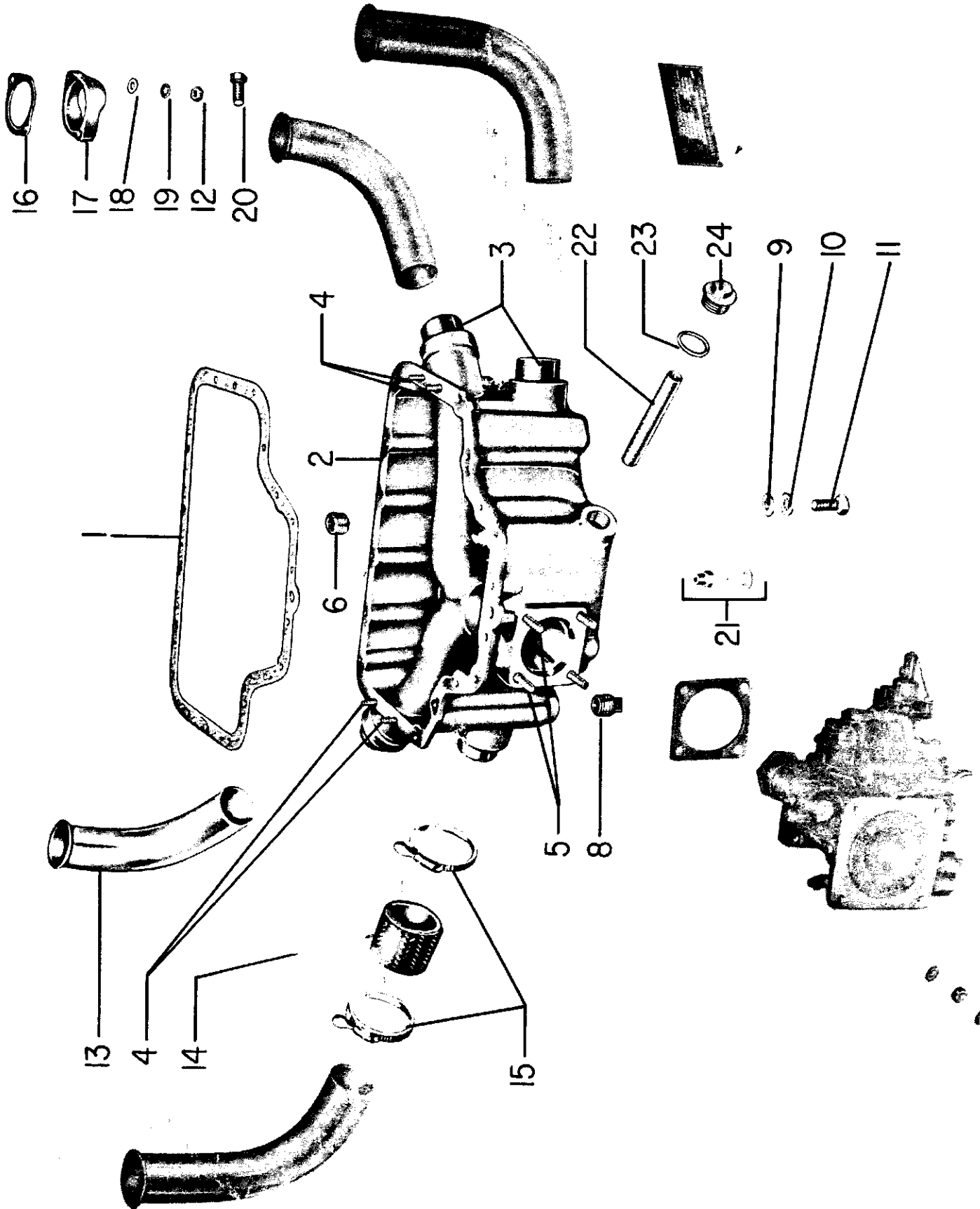


Figure 44. Oil Sump Assembly (WCF Crankcase Engines)



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 7

NUMERICAL INDEX

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL INDEX - O-360, HO-360 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
38-19	AN6-13	Bolt	1	17-16	STD-35	Washer	32
38-15	AN6-14	Bolt	1	23-3	STD-35	Washer	8
38-19	AN6-16	Bolt	1	34-14	STD-35	Washer	1
3-13	AN310-6	Nut	1	34-20	STD-35	Washer	AR
24-10	AN365-632C	Nut	3	36-6	STD-35	Washer	1
25-12	AN365-632C	Nut	3	36-11	STD-35	Washer	AR
32-4	AN365-632C	Nut	4	36-18	STD-35	Washer	AR
10-16	AN456AD4-8	Rivet	1	38-8	STD-35	Washer	1
10-17	AN456AD4-22	Rivet	1	39-3	STD-35	Washer	4
32-8	AN500-416-12	Screw	2	39-7	STD-35	Washer	3
32-30	AN500-416-12	Screw	4	40-10	STD-35	Washer	4
32-8	AN500-416-18	Screw	2	41-25	STD-35	Washer	4
13-10	AN777-8D	Elbow	1	45-4	STD-35	Washer	4
9-2	AN819-6	Sleeve	2	34-11	STD-68	Pin	1
9-6	AN822-5-4D	Elbow	1	34-22	STD-68	Pin	2
45-7	AN822-6	Elbow	1	36-13	STD-68	Pin	2
20-10	AN823-6D	Elbow	4	36-20	STD-68	Pin	2
13-15	AN823-8	Elbow	1	43-4	STD-91	Plug	1
13-16	AN844-10D	Elbow	1	44-6	STD-91	Plug	1
13-11	AN901-8A	Gasket	1	43-11	STD-111	Gasket	1
3-14	MS9048-100	Pin	1	43-25	STD-111	Gasket	1
20-21	MS13997-3	Key	8	44-23	STD-111	Gasket	1
20-14	MS13998-3	Cap	4	5-2	STD-160	Lockwasher	9
43-18	MS16625-1062	Ring	2	6-5	STD-160	Lockwasher	12
2-5	MS16625-1081	Ring	1	12-12	STD-160	Lockwasher	12
5-1	STD-8	Washer	16	14-6	STD-160	Lockwasher	4
5-3	STD-8	Washer	9	14-6	STD-160	Lockwasher	1
6-1	STD-8	Washer	19	15-5	STD-160	Lockwasher	4
6-6	STD-8	Washer	9	18-27	STD-160	Lockwasher	2
9-4	STD-8	Washer	1	18-32	STD-160	Lockwasher	9
12-11	STD-8	Washer	12	18-36	STD-160	Lockwasher	1
14-5	STD-8	Washer	4	32-7	STD-160	Lockwasher	2
15-4	STD-8	Washer	4	32-29	STD-160	Lockwasher	4
18-26	STD-8	Washer	2	34-5	STD-160	Lockwasher	3
18-31	STD-8	Washer	9	35-9	STD-160	Lockwasher	3
32-6	STD-8	Washer	2	43-8	STD-160	Lockwasher	20
32-15	STD-8	Washer	13	43-22	STD-160	Lockwasher	8
32-21	STD-8	Washer	14	44-10	STD-160	Lockwasher	20
34-4	STD-8	Washer	1	44-19	STD-160	Lockwasher	8
35-8	STD-8	Washer	16	15-9	STD-208	Oil Seal	1
43-7	STD-8	Washer	28	18-19	STD-208	Seal	1
43-21	STD-8	Washer	8	41-22	STD-213	Seal	1
44-9	STD-8	Washer	28	13-3	STD-294	Gasket	1
44-18	STD-8	Washer	8	14-4	STD-294	Gasket	1
5-4	STD-33	Washer	2	8-7	STD-366	Pin	1
5-5	STD-33	Washer	4	8-9	STD-406	Dowel	2
6-7	STD-33	Washer	1	3-3	STD-425	Washer	9
6-9	STD-33	Washer	2	32-27	STD-425	Washer	6
6-9	STD-33	Washer	4	9-14	STD-475	Washer	1
38-14	STD-33	Washer	1	16-11	STD-475	Lockwasher	4
38-16	STD-33	Washer	AR	16-18	STD-475	Lockwasher	4
38-21	STD-33	Washer	AR	17-4	STD-475	Lockwasher	4
40-5	STD-33	Washer	2	23-4	STD-475	Lockwasher	8
41-4	STD-33	Washer	2	26-9	STD-475	Lockwasher	4
42-7	STD-33	Washer	2	39-4	STD-475	Lockwasher	4
9-13	STD-35	Washer	3	40-11	STD-475	Washer	4
12-8	STD-35	Washer	3	41-26	STD-475	Washer	4
16-10	STD-35	Washer	4	1-3	STD-514	Dowel	2
16-17	STD-35	Washer	4	18-20	STD-548	Seal	1
16-19	STD-35	Washer	32	43-24	STD-551	Plug	2
16-19	STD-35	Washer	4	44-8	STD-551	Plug	2
17-3	STD-35	Washer	4	24-9	STD-553	Screw	3

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL INDEX - O-360, HO-360 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
25-11	STD-553	Screw	3	5-3	STD-1409	Nut	3
32-3	STD-553	Screw	4	6-6	STD-1409	Nut	3
1-2	STD-557	Dowel	2	16-12	STD-1410	Nut	4
5-5	STD-596	Nut	2	16-19	STD-1410	Nut	4
6-9	STD-596	Nut	2	17-5	STD-1410	Nut	4
32-28	STD-670	Stop Nut	6	23-5	STD-1410	Nut	8
5-5	STD-678	Washer	2	26-10	STD-1410	Nut	4
6-9	STD-678	Washer	2	39-6	STD-1410	Nut	3
23-6	STD-684	Nipple	4	40-12	STD-1410	Nut	4
32-26	STD-692	Screw	6	41-27	STD-1410	Nut	4
18-34	STD-696	Washer	9	45-5	STD-1410	Nut	4
9-6	STD-700	Elbow	1	5-2	STD-1411	Nut	9
9-15	STD-700	Elbow	1	6-5	STD-1411	Nut	9
41-12	STD-705	Screw	2	14-8	STD-1411	Nut	1
38-18	STD-713	Pin	1	14-8	STD-1411	Nut	4
38-23	STD-713	Pin	1	15-6	STD-1411	Nut	4
12-3	STD-714	Pin	1	18-28	STD-1411	Nut	2
16-21	STD-783	Plug	1	18-33	STD-1411	Nut	9
17-6	STD-783	Plug	1	21-7	STD-1411	Nut	4
10-13	STD-784	Plug	1	32-9	STD-1411	Nut	2
11-13	STD-784	Plug	1	32-21	STD-1411	Nut	4
13-5	STD-784	Plug	2	34-8	STD-1411	Nut	1
13-14	STD-784	Plug	1	34-29	STD-1411	Nut	1
2-8	STD-847	Screw	1	35-10	STD-1411	Nut	1
24-11	STD-853	Tee	2	43-10	STD-1411	Nut	12
25-13	STD-853	Tee	2	43-10	STD-1411	Nut	18
5-4	STD-872	Nut	1	44-12	STD-1411	Nut	12
6-8	STD-872	Nut	1	44-12	STD-1411	Nut	18
38-17	STD-872	Nut	1	5-1	STD-1414	Bolt	8
38-22	STD-872	Nut	1	6-1	STD-1414	Bolt	8
18-24	STD-938	Dowel	1	6-1	STD-1414	Bolt	5
28-6	STD-957	Grommet	4	12-14	STD-1414	Bolt	2
3-4	STD-1045	Gasket	1	34-6	STD-1415	Bolt	1
3-8	STD-1045	Gasket	1	35-6	STD-1415	Bolt	1
4-4	STD-1065	Dowel	1	5-3	STD-1416	Bolt	3
9-3	STD-1126	Nut	2	6-6	STD-1416	Bolt	3
16-8	STD-1164	Insert	4	6-5	STD-1419	Bolt	3
5-5	STD-1197	Bolt	1	12-9	STD-1420	Nut	3
6-9	STD-1197	Bolt	2	34-21	STD-1420	Nut	2
6-9	STD-1197	Bolt	1	36-12	STD-1420	Nut	2
12-13	STD-1204	Bolt	10	36-19	STD-1420	Nut	2
43-9	STD-1204	Bolt	16	39-9	STD-1420	Nut	1
43-9	STD-1204	Bolt	10	40-6	STD-1592	Bolt	2
44-11	STD-1204	Bolt	16	41-5	STD-1592	Bolt	2
44-11	STD-1204	Bolt	12	42-8	STD-1592	Bolt	2
5-4	STD-1205	Bolt	1	1-23	STD-1623	Insert	2
4-2	STD-1211	Plug	1	26-8	STD-1727	Washer	4
18-37	STD-1215	Bolt	1	26-12	STD-1727	Washer	4
34-7	STD-1215	Bolt	2	34-16	STD-1727	Washer	1
35-7	STD-1215	Bolt	1	36-8	STD-1727	Washer	1
43-23	STD-1215	Bolt	8	38-10	STD-1727	Washer	1
44-20	STD-1215	Bolt	8	45-6	STD-1763	Locknut	4
16-3	STD-1221	Ring	1	15-8	STD-1774	Pin	1
17-14	STD-1221	Ring	1	16-9	STD-1774	Pin	1
43-15	STD-1269	Clamp	8	17-11	STD-1774	Pin	1
44-15	STD-1269	Clamp	8	41-21	STD-1774	Pin	1
39-5	STD-1323	Bolt	1	34-15	STD-1817	Bolt	2
1-22	STD-1339	Plug	1	35-5	STD-1817	Bolt	1
12-4	STD-1339	Plug	1	36-7	STD-1817	Bolt	2
18-25	STD-1339	Plug	2	36-9	STD-1817	Bolt	1
9-3	STD-1400	Nut	2	36-15	STD-1817	Bolt	1
9-2	STD-1401	Sleeve	2	38-9	STD-1817	Bolt	1

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FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
38-11	STD-1817	Bolt	1	33-1	1182-K5	Spark Plug	8
38-13	STD-1817	Bolt	1	40-8	1691-C	Gasket	1
23-7	STD-1821	Hose	4	41-23	1691-C	Gasket	1
34-17	STD-1834	Bolt	1	15-13	8313	Gasket	1
34-19	STD-1835	Bolt	1	18-29	8313	Gasket	2
9-15	STD-1838	Bolt	1	32-10	40239	Protector	4
36-4	STD-1838	Bolt	4	32-16	40239	Protector	4
38-6	STD-1838	Bolt	2	32-22	40239	Protector	4
36-10	STD-1851	Bolt	2	28-2	45664	Cable	AR
36-16	STD-1851	Bolt	1	20-23	60009	Key	8
14-9	STD-1856	Screw	3	20-4	60028	Guide	4
14-9	STD-1856	Screw	4	21-1	60053	Seal	8
38-9	STD-1858	Bolt	1	40-1	60096	Gasket	1
34-18	STD-1861	Bolt	1	41-1	60096	Gasket	1
34-12	STD-1862	Bolt	2	42-5	60096	Gasket	1
34-10	STD-1864	Nut	1	12-2	60329	Shaft	1
34-9	STD-1868	Bolt	1	21-10	60398	Bushing	4
20-7	STD-1872	Insert	8	21-13	60401	Shaft	4
40-7	STD-1882	Screw	2	15-2	60430	Cover	1
40-12	STD-1882	Screw	2	18-30	60430	Cover	2
41-6	STD-1882	Screw	2	40-9	60431	Cover	1
14-7	STD-1884	Screw	4	41-24	60431	Cover	1
16-20	STD-1889	Bolt	4	27-7	60670	Plate	2
39-8	STD-1889	Bolt	2	34-3	60733	Shim	AR
23-8	STD-1924	Clamp	8	12-6	60746	Impeller	1
20-26	STD-1925	Screw	24	12-7	60747	Impeller	1
9-11	STD-1930	Hose	1	5-6	60803	Strap	1
36-17	STD-2033	Bolt	1	6-4	60803	Strap	1
38-13	STD-2069	Bolt	1	19-8	60828	Plug	8
18-10	STD-2072	O-ring	1		60886	Belt	1
6-2	STD-2084	Bolt	2	15-7	61098	Adapter Assy.	1
21-16	STD-2090	Nut	16	2-6	61155	Gear	1
14-13	25C-10	Stud	1	2-7	61156	Lockplate	1
44-5	31C-14	Stud	4	26-3	61163	Gear	1
1-18	31CD-12	Stud	1	12-10	61165	Seal	1
1-11	38-13	Stud	16	18-8	61166	Thrust Button	1
1-12	38-14	Stud	16	41-18	61166	Thrust Button	1
1-14	38-22	Stud	1	14-2	61173	Gasket	1
1-13	38D-17	Stud	1	12-5	61174	Shaft	1
1-7	50-15	Stud	8	15-1	61183	Gasket	1
1-8	50-16	Stud	8	18-1	61183	Gasket	1
21-17	383-B	Nut	16	10-7	61238	Stud	4
3-1	1028-B	Ball	1	11-8	61238	Stud	4
3-6	1028-B	Ball	1	11-15	61238	Stud	4
1-20	1102	Plug	5	20-25	61247	Cover	4
10-14	1102	Plug	2	23-2	61260	Flange	4
11-14	1102	Plug	2	1-15	61261	Stud	2
16-6	1102	Plug	1	10-3	61261	Stud	6
17-9	1102	Plug	1	10-3	61261	Stud	8
20-22	1102	Plug	4	11-3	61261	Stud	6
20-22	1102	Plug	1	11-3	61261	Stud	8
25-1	1102	Plug	4	11-15	61261	Stud	6
25-8	1102	Plug	1	11-15	61261	Stud	8
44-7	1102	Plug	2	11-15	61261	Stud	4
33-1	1182-B3	Spark Plug	8	20-8	61261	Stud	8
33-1	1182-V1	Spark Plug	8	18-5	61262	Stud	1
33-1	1182-X2	Spark Plug	8	10-10	61265	Stud	3
33-1	1182-P2	Spark Plug	8	11-9	61265	Stud	3
33-1	1182-T4	Spark Plug	8	11-15	61265	Stud	3
33-1	1182-Q5	Spark Plug	8	32-5	61385	Clip	2
33-1	1182-J3	Spark Plug	8	10-8	61400	Stud	4
33-1	1182-F3	Spark Plug	8	11-12	61400	Stud	4



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FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
43-5	61400	Stud	4	11-5	67528	Stud	2
44-4	61400	Stud	4	11-15	67528	Stud	2
4-12	61510	Plug	1	16-7	67556	Stud	4
40-3	61544	Plunger	1	17-10	67556	Stud	4
41-3	61544	Plunger	1	16-4	68315	Gasket	1
42-3	61544	Plunger	1	17-7	68315	Gasket	1
28-5	61546	Sleeve	12	1-19	68316	Stud	1
28-10	61559	Grommet	2	16-7	68316	Stud	4
28-9	61561	Plate	2	17-18	68316	Stud	1
	61566	Kit	2	16-1	68317	Shaftgear	1
24-3	61581-2	Tube	1	17-12	68317	Shaftgear	1
25-4	61581-2	Tube	1	43-5	68437	Stud	4
24-4	61581-3	Tube	1	44-5	68437	Stud	4
25-5	61581-3	Tube	1	20-9	68510	Stud	4
24-2	61581-9	Tube	1	21-5	68517	Spring	8
24-5	61581-9	Tube	1	21-6	68518	Lockplate	4
25-3	61581-9	Tube	1	9-1	68532	Tube Assy.	1
24-1	61581-12	Tube	1	15-3	68593	Spacer	4
25-2	61581-12	Tube	1	9-5	68604	Clip	2
25-6	61581-21A	Tube	1	32-12	68604	Clamp	2
24-5	61581-25	Tube	1	32-18	68604	Clamp	4
24-6	61581-26	Tube	1	35-1	68626	Regulator	1
25-7	61581-26	Tube	1	37-1	68626	Regulator	1
26-1	61665	Gear	1	35-2	68628	Relay	1
26-6	61666	Adapter	1	10-15	68633	Shield	1
10-5	61668	Stud	2	3-2	68668	Spring	1
11-4	61668	Stud	2	3-7	68668	Spring	1
11-15	61668	Stud	2	23-9	68759	Tube Assy.	1
11-15	61668	Stud	4	23-10	68760	Tube Assy.	1
26-4	62224	Gasket	3	23-11	68761	Tube Assy.	2
26-4	62224	Gasket	2	23-11	68761	Tube Assy.	1
26-4	62224	Gasket	3	34-1	68764	Generator	1
26-4	62224	Gasket	2	36-1	68764	Generator	1
26-4	62224	Gasket	1	34-1	68765	Generator	1
24-7	62254	Clip	4	34-1	68767	Generator	1
25-9	62254	Clip	4	36-1	68767	Generator	1
8-3	62281	Gage Assy.	1	35-1	68810	Regulator	1
13-2	62415	Plunger	1	34-2	68870	Bracket	1
13-4	62417	Plug	1	34-1	68871	Generator	1
35-1	62656	Regulator	1	36-1	68871	Generator	1
37-1	62656	Regulator	1	35-1	68872	Regulator	1
14-1	62817	Screen	1	37-1	68872	Regulator	1
35-1	62833	Regulator	1	43-1	68972	Gasket	1
37-1	62833	Regulator	1	44-1	68972	Gasket	1
21-1	62922	Seal	8	14-3	68974	Housing	1
1-24	65007	Retainer	8	16-15	69106	Cover	1
2-14	65074	Socket	8	17-2	69106	Cover	1
40-2	65098	Cover	1	34-2	69113	Bracket	1
41-2	65098	Cover	1	8-3A	69116	Gage Assy.	1
42-6	65098	Cover	1	41-20	69159	Adapter Assy.	1
23-1	65321	Gasket	4	41-19	69164	Gasket	1
20-15	65441	Seat	4	18-11	69316	Gear	1
20-17	65567	Spring	8	18-23	69318	Shaft	1
19-2	65819	Bushing	4	18-7	69319	Gear Assy.	1
18-6	66145	Dowel	2	43-12	69335	Plug	1
45-1	66224	Gasket	1	43-27	69335	Plug	1
20-11	66610	Bushing	16	44-24	69335	Plug	1
1-5	66734	Stud	4	10-6	69336	Stud	2
20-6	66796	Insert	8	11-11	69336	Stud	4
1-4	67453	Dowel	6	21-4	69345	Spacer	4
1-16	67528	Stud	1	13-1	69436	Spring	1
10-4	67528	Stud	1	21-9	69444	Rocker Assy.	4

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FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
34-2	69452	Bracket	1	13-8	71600	Adapter	1
14-3A	69510	Housing	1	22-3	71610	Hook	2
21-15	69531	Plate	8	22-2	71611	Retainer	2
16-13	69551	Gasket	1	9-1	71612	Tube Assy.	1
17-1	69551	Gasket	1	13-12	71620	Bolt	1
43-3	69602	Connection	4	9-5	71621	Clip	2
44-3	69602	Connection	4	9-12	71621	Clip	1
43-14	69603	Hose	4	9-1	71622	Tube Assy.	1
44-14	69603	Hose	4	13-9	71623	Washer	1
19-7	69650	Pin	4	45-2	71710	Carburetor	1
13-7	69675	Connector	1	43-13	71712	Pipe	2
1-10	69679	Stud	2	44-13	71712	Pipe	2
18-17	69720	Gasket	1	43-13	71713	Pipe	2
18-22	69722	Stud	1	44-13	71713	Pipe	2
18-4	69724	Stud	3	10-2	71715	Hsg. Assy.	1
18-3	69725	Adapter Assy.	1	34-1	71744	Generator	1
18-12	69730	Gear Assy.	1	36-1	71744	Generator	1
18-13	69731	Bushing	1	35-1	71745	Regulator	1
10-12	69740	Stud	3	37-1	71745	Regulator	1
11-15	69740	Stud	1	32-13	71824	Clamp	2
18-18	69742	Cover	1	32-19	71824	Clamp	4
1-4	69796	Dowel	2	43-2	71871	Sump	1
45-3	69926-Y	Carburetor	1	44-2	71871	Sump	1
18-21	69942	Stud	2	4-15	71903	Bushing	8
10-11	69943	Stud	1	4-18	71906	Ring	8
11-7	69943	Stud	1	4-19	71907	Washer	8
11-15	69943	Stud	1	24-8	71910	Clamp	3
35-3	69951	Strut	1	25-10	71910	Clamp	3
21-2	70310	Seal	8	43-19	71973	Gasket	4
18-2	70347	Dual Dr. Assy.	1	44-16	71973	Gasket	4
36-2	70419	Bracket	2	35-1	71979	Regulator	1
43-3	70482	Connection	4	34-1	71980	Generator	1
44-3	70482	Connection	4	36-1	71980	Generator	1
43-26	70484	Screen	1		72000	Belt	1
44-22	70484	Screen	1	16-14	72053	Gasket	1
43-13	70485	Pipe	4	17-15	72053	Gasket	1
44-13	70485	Pipe	4	20-2	72057	Seat	4
9-1	71011	Tube Assy.	1	20-3	72058	Seat	4
18-35	71023	Brace	1	4-5	72060	Bushing	1
45-2	71098	Carburetor	1	4-8	72061	Bushing	1
21-16	71133	Nut	16	4-11	72062	Bushing	4
21-17	71134	Nut	16	2-10	72075	Seal	6
13-6	71140	Fitting	1	35-1	72077	Regulator	1
35-2	71349	Relay	1	37-1	72077	Regulator	1
35-1	71350	Regulator	1	2-11	72091	Ring	2
26-7	71397	Magneto	1	22-1	72152	Baffle	2
26-7	71398	Magneto	1	19-8	72198	Plug	8
21-14	71481	Ring	4	35-1	72205	Regulator	1
27-2	71489	Plug	8	37-1	72205	Regulator	1
29-2	71489	Plug	8	19-5	72218	Bearing	8
30-2	71489	Plug	8	41-10	72230	Shaft	1
31-2	71489	Plug	8	41-13	72231	Gear Assy.	1
8-3A	71551	Gage Assy.	1	34-2	72304	Bracket	1
4-20	71557	Tube	4	35-1	72311	Regulator	1
	71571	Kit	1	37-1	72311	Regulator	1
	71574	Kit	2	8-4	72312	Ring	1
	71579	Belt	1	35-4	72321	Strut	1
15-12	71596	Washer	1	28-12	72351	Screw	8
15-13	71596	Washer	1	32-2	72351	Screw	8
17-13	71596	Washer	1	16-16	72378	Cover	1
18-9	71596	Washer	1	17-16	72378	Cover	1
18-14	71596	Washer	2	13-13	72413	Fitting	1

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FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
32-1	72453	Clamp	4	8-3A	74171	Gage Assy.	1
26-2	72495	Gear	1	8-8	74217	Ring	1
10-2	72506	Hsg. Assy.	1	24-12	74225	Nipple	3
26-7	72524	Magneto	1	25-14	74225	Nipple	3
7-1	72565	Support Assy.	1	20-5	74230	Guide	4
7-2	72566	Gear	1	19-9	74241	Ring	8
34-1	72695	Generator	1	4-6	74248	Bushing	1
36-1	72695	Generator	1	4-10	74249	Bushing	5
4-14	72801	Ct'wt. Assy.	2	37-1	74291	Regulator	1
32-24	72815	Bracket	3	37-1	74292	Regulator	1
41-11	72829	Lockplate	1	8-6	74314	Plug	1
8-6	72842	Plug	1	38-1	74319	Alternator	1
8-6	72844	Plug	1	38-12	74323	Strut	1
8-3A	72847	Gage Assy.	1	38-4	74324	Bracket	1
	72871	Belt	1	43-17	74335	Disc	2
2-12	72877	Hyd. Body	8	23-12	74428	Tube Assy.	1
15-11	72962	Button	1	19-1	74502	Conn. Rod	4
15-10	72970	Gear Assy.	1	20-13	74541	Valve	4
10-2	73018	Hsg. Assy.	1	8-10	74546	Plug	1
32-14	73050	Clamp	1	20-16	74554	Seat	4
32-20	73050	Clamp	5	21-11	74636	Rocker Assy.	4
45-3	73132	Carburetor	1	21-12	74637	Bushing	4
32-25	73152	Bracket	2	19-3	74644	Bolt	8
10-2	73198	Hsg. Assy.	1	19-4	74646	Nut	8
18-15	73231	Gear Assy.	1	19-9	74673	Ring	8
18-16	73232	Plug	1	45-9	74753	Nipple	1
27-16	73245	Eyelet	8	38-1	74816	Alternator	1
28-4	73245	Eyelet	8	38-2	74863	Pulley	1
28-11	73245	Eyelet	8	38-3	74878	Fan	1
29-12	73245	Eyelet	8	38-1	74880	Alternator	1
30-14	73245	Eyelet	8	21-18	74887	Spacer	2
31-14	73245	Eyelet	8	4-1	74966	Crankshaft	1
28-8	73246	Kit Assy.	2	4-1	74968	Crankshaft	1
35-1	73340	Regulator	1	4-1	74970	Crankshaft	1
37-1	73340	Regulator	1	19-9	74989	Ring	8
43-20	73346	Flange	4	41-7	74996	Gear Assy.	2
44-17	73346	Flange	4	41-8	74996	Gear Assy.	1
26-7	73360	Magneto	1	41-15	74996	Gear Assy.	2
26-7	73360	Magneto	2	42-1	74996	Gear Assy.	2
36-3	73383	Lockplate	2	42-3	74996	Gear Assy.	1
38-5	73383	Lockplate	1	7-1	75030	Support Assy.	1
45-3	73392	Carburetor	1	41-9	75072	Gear Assy.	1
21-8	73434	Rod Assy.	AR	42-4	75072	Gear Assy.	1
21-8	73435	Rod Assy.	AR	19-6	75089	Piston	4
21-8	73436	Rod Assy.	AR	16-5	75153	Adapter Assy.	1
10-2	73604	Hsg. Assy.	1	17-8	75153	Adapter Assy.	1
28-3	73726	Lockclip	8	1-6	75154	Stud	4
28-1	73729	Cable Assy.	1	1-6	75154	Stud	2
4-13	73810	Bushing	4	1-9	75155	Stud	2
10-1	73818	Gasket	1	1-17	75156	Stud	1
11-1	73818	Gasket	1	9-12	75165	Clip	1
19-10	73857	Ring, Piston	4	9-10	75166	Tube Assy.	1
20-12	73938	Valve	4	9-10	75167	Tube Assy.	1
10-2	73972	Hsg. Assy.	1	20-1	75186	Cylinder	4
19-10	73998	Ring, Piston	4	38-1	75220	Alternator	1
8-2	74065	Ring	1	7-1	75221	Support Assy.	1
8-2	74068	Ring	1	40-4	75246	Pump	1
9-8	74070	Elbow	1	22-4	75339	Baffle	2
45-8	74070	Elbow	1	20-1	75362	Cylinder	4
43-16	74139	Adapter Assy.	2	20-1	75363	Cylinder	4
8-1A	74168	Tube	1	38-7	75380	Link	1
8-6	74169	Plug	1	19-6	75413	Piston	4

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FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
44-21	75444	Adapter Assy.	2	27-14	76728	Sleeve	8
16-5	75545	Adapter Assy.	1	29-10	76728	Sleeve	8
17-17	75545	Adapter Assy.	1	30-12	76728	Sleeve	8
4-7	75560	Bushing	1	31-11	76728	Sleeve	8
4-10	75561	Bushing	5	32-11	76734	Zip Strap	6
9-9	75686	Elbow	1	32-17	76734	Zip Strap	8
17-20	75686	Elbow	1	27-11	76753	Sleeving	4
17-19	75722	Adapter Assy.	1	30-9	76753	Sleeving	4
8-1	75735	Tube	1	27-12	76754	Plate	2
8-1A	75736	Tube	1	29-8	76754	Plate	2
9-7	75738	Nipple	1	30-10	76754	Plate	2
9-16	75739	Nipple	1	27-3	76755	Collar	8
9-1	75758	Tube Assy.	1	29-3	76755	Collar	8
8-1A	75767	Tube	1	30-3	76755	Collar	8
21-3	75774	Tube	8	31-3	76755	Collar	8
20-1	75874	Cylinder	4	27-4	76757	Nut	8
10-9	75888	Stud	6	29-4	76757	Nut	8
11-10	75888	Stud	6	30-4	76757	Nut	8
11-15	75888	Stud	6	31-4	76757	Nut	8
26-7	75896	Magneto	1	39-2	76773	Switch	1
26-7	75897	Magneto	1	39-2	76775	Switch	1
20-24	75906	Gasket	4	38-7	76818	Link	1
41-17	75924	Shaftgear	1	10-2	76826	Hsg. Assy.	1
27-17	75941	Tape	1	27-15	76852	Grommet	2
29-13	75941	Tape	1	30-13	76852	Grommet	2
30-15	75941	Tape	1	27-18	76853	Mag. Plate	2
31-15	75941	Tape	1	30-16	76853	Mag. Plate	2
14-10	75944	Valve Assy.	1	38-4	76906	Bracket	1
26-11	75965	Clamp	4	38-12	76908	Strut	1
20-1	75971	Cylinder	4	27-8	76923-48S70-63	Lead	8
	76026	Belt	1	27-9	76923-48S70-63	Lead	4
34-13	76028	Link	1	27-9	76923-48S70-63	Lead	6
36-5	76028	Link	2	27-10	76923-48S70-63	Lead	6
29-14	76075	Mag. Plate	2	27-10	76923-48S70-63	Lead	8
31-16	76075	Mag. Plate	2	29-7	76923-48S70-63	Lead	2
2-1	76097	Camshaft	1	29-7	76923-48S70-63	Lead	4
11-2	76110	Hsg. Assy.	1	30-7	76923-48S70-63	Lead	6
11-2	76111	Hsg. Assy.	1	31-7	76923-48S70-63	Lead	4
2-4	76118	Spacer	1	27-9	76923-48S90-63	Lead	4
2-2	76121	Tach. Shaft	1	29-7	76923-72S90-63	Lead	2
11-2	76137	Hsg. Assy.	1	31-8	76923-48S90-63	Lead	4
11-2	76139	Hsg. Assy.	1	27-10	76923-48S110-63	Lead	2
11-2	76140	Hsg. Assy.	1	30-8	76923-48S110-63	Lead	2
11-2	76141	Hsg. Assy.	1	20-18	76994	Spring	8
3-11	76161	Cap	1	2-15	77034	Bearing	4
3-10	76162	Insert	1	4-1	77037	Crankshaft	1
39-1	76211	Starter	1	2-16	77044	Brg. Front	1
39-1	76212	Starter	1	45-1	77154	Gasket	1
39-1	76213	Starter	1	44-2	77159	Sump	1
6-12	76220	Stud	4	45-2	77277	Carburetor	1
12-1	76354	Oil Pump	1	41-8	77309	Bushing	1
4-1	76374	Crankshaft	1	41-8	77309	Bushing	2
38-1	76496	Alternator	1	41-9	77309	Bushing	1
43-2	76503	Sump	1	41-14	77309	Bushing	1
3-5	76529	Plug	1	41-16	77309	Bushing	2
38-4	76533	Bracket	1	42-2	77309	Bushing	2
38-20	76534	Shim	AR	42-3	77309	Bushing	1
9-10	76617	Tube Assy.	1	42-4	77309	Bushing	1
29-11	76648	Grommet	2	37-1	77347	Regulator	1
31-13	76648	Grommet	2	2-9	77377	Seal	1
14-11	76691	Gasket	2	4-3	77416	Plug	1
31-9	76724	Plate	2	4-1	77417	Crankshaft	1

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

NUMERICAL INDEX - O-360, HO-360 SERIES

FIG-REF. NO.	PART NO.	PART NAME	QTY.	FIG-REF. NO.	PART NO.	PART NAME	QTY.
11-2	77422	Hsg. Assy.	1	31-1	LW-10177	Cable Assy.	1
11-2	77510	Hsg. Assy.	1	7-1	LW-10184	Support Assy.	1
7-1	77579	Support Assy.	1	37-1	LW-10185	Regulator	1
36-14	77718	Strut	1	45-2	LW-10260	Carburetor	1
3-12	77807	Screw	1	27-7	LW-10388	Elbow, 110°	2
3-9	77808	Valve Assy.	1	30-6	LW-10388	Elbow	2
14-12	77853	Hsg. Assy.	1	27-5	LW-10389	Elbow, 70°	8
21-18	77907	Spacer	2	27-5	LW-10389	Elbow, 70°	4
8-5	77962	Adapter	1	27-5	LW-10389	Elbow, 70°	6
26-7	77985	Magneto	1	27-5	LW-10389	Elbow, 70°	8
11-2	77997	Hsg. Assy.	1	29-5	LW-10389	Elbow, 70°	4
11-2	78039	Hsg. Assy.	1	30-5	LW-10389	Elbow, 70°	6
26-7	78125	Magneto	1	31-5	LW-10389	Elbow, 70°	4
1-1	78226	Crankcase	1	27-6	LW-10390	Elbow, 90°	4
1-1	78228	Crankcase	1	29-6	LW-10390	Elbow, 90°	4
1-1	78229	Crankcase	1	31-6	LW-10390	Elbow, 90°	4
2-13	78290	Plunger	8	27-13	LW-10400	Ferrule	16
26-5	78292	Gasket	2	29-9	LW-10400	Ferrule	16
38-1	78308	Alternator	1	30-11	LW-10400	Ferrule	16
38-1	78310	Alternator	1	31-10	LW-10400	Ferrule	16
38-1	78311	Alternator	1	7-1	LW-10504	Support Assy.	1
38-1	78312	Alternator	1	38-1	LW-10513	Alternator	1
2-3	78368	Pin	1	6-3	LW-10572	Bolt	1
38-1	78403	Alternator	1	6-10	LW-10573	Bolt	1
38-1	78407	Alternator	1	6-11	LW-10574	Spacer	1
38-1	78408	Alternator	1	8-3A	LW-10615	Gage Assy.	1
27-1	78538	Cable Assy.	1	1-4	LW-10647	Dowel	4
27-1	78539	Cable Assy.	1	38-7	LW-10729	Link	1
27-1	78540	Cable Assy.	1	4-1	LW-10783	Crankshaft	1
27-1	78542	Cable Assy.	1	32-23	LW-10815	Bracket	2
29-1	78546	Cable Assy.	1	4-17	LW-10945	Roller	2
30-1	78547	Cable Assy.	1	4-16	LW-10977	Roller	2
16-5	78594	Adapter Assy.	1	1-1	LW-11026	Crankcase	1
2-1	78717	Camshaft	1	1-1	LW-11050	Crankcase	1
13-14	78948	Elbow	1	1-1	LW-11053	Crankcase	1
26-7	78955	Magneto	1	1-1	LW-11066	Crankcase	1
45-2	LW-10064	Carburetor	1	1-1	LW-11068-S	Crankcase	1
20-19	LW-10076	Seat	4	31-12	LW-11123	Spacer	8
20-20	LW-10077	Seat	4				

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 8

VENDOR ACCESSORY SECTION

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-1 - CARBURETORS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2	
			STD.	W.C.F.	
1	A10-3878	CARBURETOR ASSEMBLY, Marvel-Schebler, MA-4-5	1	1	A
	A10-4164-1	CARBURETOR ASSEMBLY, Marvel-Schebler, MA-4-5	1	1	B
	10-5034	CARBURETOR ASSEMBLY, Marvel-Schebler, MA-4-5		1	C
2	A10-2354	BODY ASSEMBLY, Carburetor	1	1	A, B, C
3	A15-A17	SCREW, Throttle body to bowl, 1/4-28 x 7/8 in. long	6	6	A, B, C
	15-B98	SCREW, Hex. hd. , bowl cover		6	C
4*	A15-A22	SCREW, Channel plug	1	1	A, B, C
5	A15-A27	SCREW, Pump discharge check valve plug	1	1	A
	A15-A84	SCREW, Pump discharge check valve plug	1	1	B, C
6	A15-A48	SCREW, Ratchet plug	1	1	A, B
7	15-126	SCREW, Slotted hex. hd. , throttle adjusting		1	C
8	15-223	SCREW, Headless, plug		1	C
9*	15-B135	SCREW, Fill. hd. , throttle lever clamp		1	C
	A15-493	SCREW, Throttle lever clamp, #10-24-5/8 in. long	1	1	A, B
10	15-A14	SCREW, Slotted hex. hd. , strainer housing	2	2	A, B, C
11	15-A15	SCREW, Special set, pump lever, lock	1	1	A, B, C
12	15-A21	SCREW, Round head, float bracket	2	2	A, B, C
13*	15-A23	SCREW, Oval head, throttle fly	2	2	A, B, C
14	A15-126	SCREW, Throttle stop, #10-32 x 1 in. long	1	1	A, B
15	A15-460	SCREW, Idle adjusting needle, #8-32 x 3/8 in. long	1	1	A, B, C
	15-B109	SCREW, Hex. hd. , idle adjusting needle		1	C
16	A15-A13	SCREW, Mixture control lever	1	1	A, B
	15-B108	SCREW, Hex. hd. , mixture control lever		1	C
17	A15-A16	SCREW, Pump idler lever	1	1	A, B
	15-B105	SCREW, Pump idler lever		1	C
18	A16-625	KIT, Gasket, Not Ill.	1	1	A, B, C
19	A16-A30	GASKET, Main nozzle	1	1	A, B, C
20	A16-A42	GASKET, Power jet	1	1	A, B, C
21	A24-284	SPRING, Pump leather expanding	1	1	A, B
22*	A24-351	SPRING, Pump follow-up	1	1	A, B, C
23	A24-A47	SPRING, Pump inlet check valve, Not Ill.	1	1	A, B
24	24-480	SPRING, Mixture metering valve head		1	C
25*	24-A1	SPRING, Idle needle	1	1	A, B, C
26*	24-A30	SPRING, Air metering pin return	1	1	A, B, C
27	24-A33	SPRING, Throttle opening	1	1	A, B, C
28*	24-A39	SPRING, Throttle adjusting screw	1	1	A, B, C
29	A16-A16	GASKET, Strainer housing	1	1	A, B
30	A16-A28	GASKET, Mixture metering valve head	1	1	A, B
31	A24-480	SPRING, Mixture metering valve head	1	1	A, B
32	A16-A31	GASKET, Throttle body to bowl	1	1	A, B, C
33*	A16-A32	GASKET, Float valve seat	1	1	A, B, C
34	16-A16	GASKET, Bowl vent housing		1	C
35	16-A39	GASKET, Idle adjusting needle retainer	1	1	A, B, C
36	A16-A40	GASKET, Pump idler lever	1	1	A, B
37	16-B44	GASKET, Pump idle lever		1	C
38	A16-A48	GASKET, Fuel inlet strainer	1	1	A, B
38A	A16-A48	GASKET, Safety washers (strainer and fuel inlet)		2	C
39*	A16-A48	GASKET, Fuel inlet	1	1	A, B
40*	16-A56	GASKET, Air metering pin jet plug		1	C
41	A16-A56	SPRING, Air metering pin jet plug	1	1	A, B

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

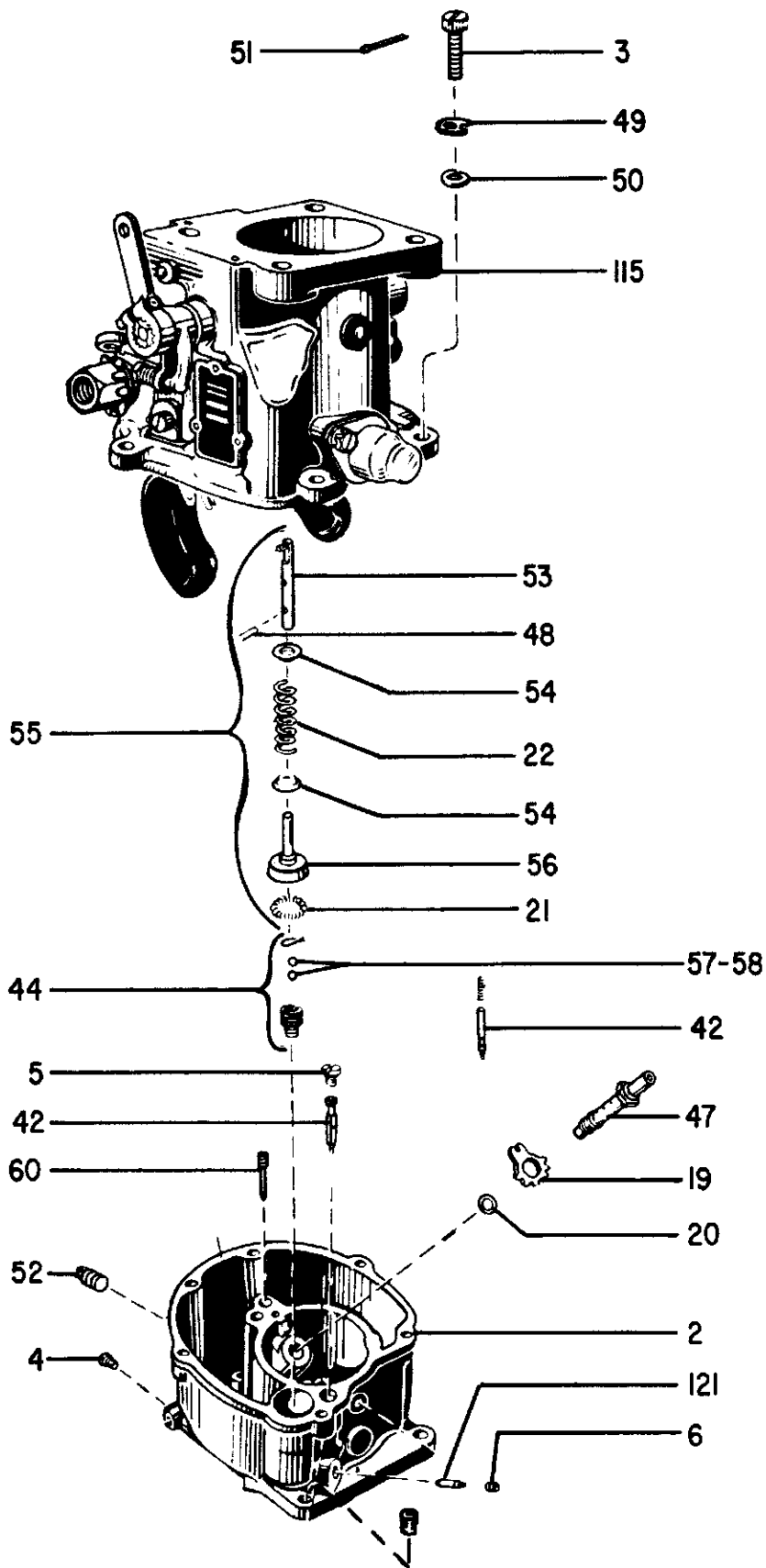


Figure 46. Carburetor Assembly (Marvel-Schebler, Model MA-4-5)



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION (CONT.)  
8-2 - CARBURETORS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
42	A34-72	VALVE, Pump discharge check	1	1	A
	A34-516	VALVE ASSEMBLY, Pump discharge check and spring	1	1	B
	34-91	VALVE, Pump discharge check	1	1	C
43	A36-227	SEAT, Pump discharge valve, Not Ill.	1	1	A
44	A36-539	VALVE ASSEMBLY, Pump inlet check	1	1	A, B
*	36-587	VALVE ASSEMBLY, Pump inlet check		1	C
45	A36-545	SCREW AND SEAT ASSEMBLY, Pump inlet check, Not Ill.	1	1	A, B
46	A37-7	PLUG	1	1	A, B, C
47	A47-739	NOZZLE ASSEMBLY	1	1	A
	A47-755	NOZZLE ASSEMBLY	1	1	B
	47-771	NOZZLE ASSEMBLY		1	C
48*	A62-56	PIN, Spring seat locating	1	1	A, B, C
49	A78-420	WASHER, Flat, throttle body screw	6	6	A
50	A78-9	WASHER, Lock, throttle body screw	6	6	B
	A78-371	WASHER, Lock, throttle body screw	6	6	B
51	A82-9	PIN, Cotter, throttle body screw	6	6	B
52	A99-12	PLUG, Pipe, bowl drain	1	1	A, B
	99-35	PLUG, Pipe, bowl drain		1	C
53	A119-557	ROD ASSEMBLY, Pump plunger	1	1	A, B, C
54*	A125-17	SEAT, Pump follow-up spring	2	2	A, B, C
55	A194-604	PLUNGER AND STEM ASSEMBLY, Pump	1	1	A
	A194-590	PLUNGER AND STEM ASSEMBLY, Pump	1	1	B, C
56	A194-605	PLUNGER ASSEMBLY, Pump	1	1	A
	A194-591	PLUNGER ASSEMBLY, Pump	1	1	B, C
57	A206-21	BALL, Steel, 5/32 in. dia., Not Ill.	4	4	A, B
58	A206-21	BALL, Steel, 5/32 in. dia., Not Ill.	2	2	A, B
59	A206-22	BALL, Steel, 3/32 in. dia., Not Ill.	2	2	A, B
60	A229-590	TUBE ASSEMBLY, Idle	1	1	A
*	A229-589	TUBE ASSEMBLY, Idle	1	1	B, C
61	A261-501	RATCHET ASSEMBLY, Safety, pump check	1	1	A, B
62	A286-783	KIT, Repair (not illustrated)	1	1	A
	A286-1304	KIT, Repair (not illustrated)	1	1	B
	A286-1571	KIT, Repair (not illustrated)		1	C
63	12-1095	THROTTLE LEVER AND SCREW ASSY.		1	C
64	13-853	THROTTLE SHAFT AND LEVER ASSY.		1	C
65	14-187	FLY, Throttle		1	C
66	A12-874	LEVER ASSEMBLY, Throttle	1	1	A, B
67	A13-853	SHAFT AND STOP ASSEMBLY, Throttle	1	1	A, B
68	A14-187	VALVE, Throttle	1	1	A, B
69	A29-113	CLIP, Venturi retaining	3	3	A, B
70	A30-629	FLOAT AND LEVER ASSEMBLY	1	1	A, B, C
71	A32-35	SHAFT, Float lever	1	1	A, B, C
72	A37-7	PLUG	1	1	A, B
73	A43-649	NEEDLE ASSEMBLY, Idle adjusting	1	1	A, B
	43-648	NEEDLE ASSEMBLY, Idle adjusting		1	C
74	A43-648	NEEDLE, Idle adjusting	1	1	A, B
75	A44-116	PACKING, Throttle shaft	2	2	A, B, C
76	A46-496	VENTURI, Main	1	1	A, B
77	A46-497	VENTURI, Primary	1	1	A, B
78	A49-199	JET, Air metering pin	1	1	A, B, C
78A	A55-255	RETAINER, Throttle shaft packing	2	2	A, B, C
79	A55-524	RETAINER ASSEMBLY, Idle adjusting needle	1	1	A, B, C
80	A60-390	BUSHING, Throttle shaft	2	2	A, B
*	60-A160	BUSHING, Throttle shaft	2	2	C
81*	29-182	CLIP, Float valve, Not Ill.	1	1	C
82	34-91	VALVE, Pump discharge check	1	1	C

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

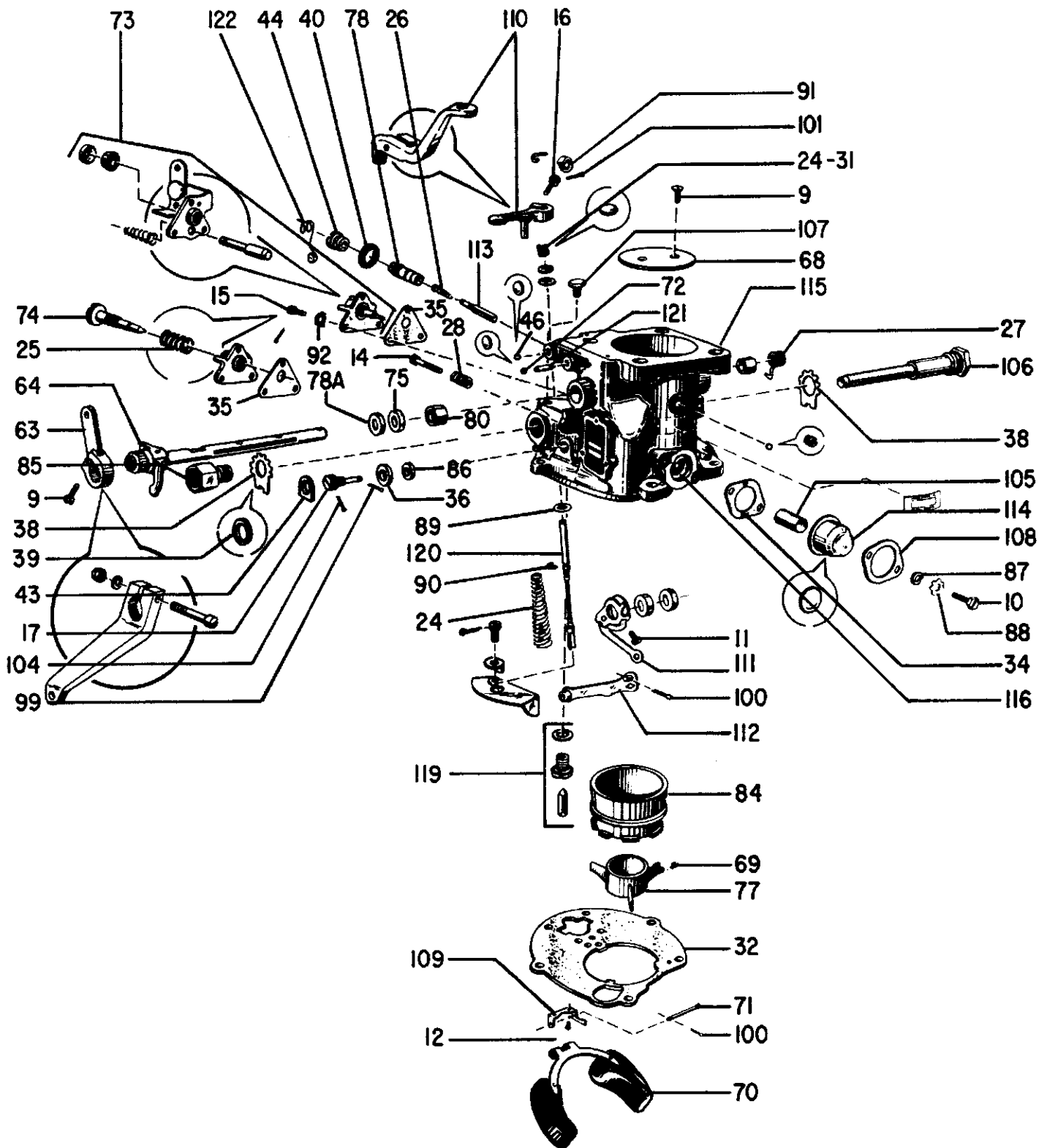


Figure 46. Carburetor Assembly (Marvel-Schebler, Model MA-4-5)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION (CONT.)  
8-3 - CARBURETORS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION					
			1	2		3	4	5	STD.	W.C.F.
83	44-190	PACKING, V-block, mixture metering valve head, Not Ill.								C
84	46-A226	VENTURI								C
85	A68-93	CONNECTION, Fuel inlet								A, B, C
86	A78-1	WASHER, Pump idler lever								A, B
87	A78-5	WASHER, Lock, screen housing								A, B
88	A78-121	WASHER, Screen housing								A, B, C
89	A78-184	WASHER, Mixture metering valve head								A, B, C
90	A78-356	WASHER, Horseshoe, metering valve head								A, B, C
91	A78-357	WASHER, Lock, mixture control lever								A, B
92	A78-374	WASHER, Lock, idle needle plate								A, B
93	A78-375	WASHER, Lock, pump idler lever								A, B
94*	A80-151	PLUG, Air metering pin jet								A, B, C
95**	78-A40	WASHER, Spacer							AR	C
96**	78-A97	WASHER, Cover screw							6	C
97**	78-A109	WASHER, Special lock, mixture control lever							1	C
98**	78-A111	WASHER, Special lock, idle needle plate							3	C
99	A82-1	PIN, Cotter, pump idler lever							1	A, B, C
100	A82-11	PIN, Cotter, float shaft							1	A, B
	A82-11	PIN, Cotter, float shaft, pump lever stud							2	C
101	A82-11	PIN, Cotter, mixture control lever							1	A, B
102	A82-11	PIN, Cotter, pump lever stud							1	A, B
103	A82-11	PIN, Cotter, idle plate screw							1	A, B
104	A82-25	PIN, Cotter, pump idler lever screw							1	A, B
105	A95-63	SCREEN, Bowl vent strainer							1	A, B
106	A95-506	FUEL INLET STRAINER ASSEMBLY							1	A, B, C
107	A99-8	PLUG, Pipe, pressure take-off							2	A, B
	99-34	PLUG, Pipe, pressure take-off							2	C
108	A110-173	FLANGE, Bowl vent strainer screen housing							1	A, B, C
109	A136-62	BRACKET, Float							1	A, B, C
110	A155-367	LEVER, Mixture control							1	A, B
111	A155-560	LEVER ASSEMBLY, Pump							1	A, B, C
112	A155-568	LEVER AND BUSHING ASSY., Pump idler							1	A, B, C
113	A173-144	PIN, Air metering							1	A, B, C
114	A221-79	HOUSING, Bowl vent strainer screen							1	A, B
	221-76	HOUSING, Bowl vent strainer screen							1	C
115	A227-1443	BODY AND BOWL COVER ASSY., Throttle							1	A
	A227-1683	BODY AND BOWL COVER ASSY., Throttle							1	B, C
116	179-45	PLUG, Expansion							2	A, C
117	194-590	ASSEMBLY, Pump plunger and stem, Not Ill.							1	C
118	194-591	ASSEMBLY, Pump plunger complete, Not Ill.							1	C
119	A233-580	VALVE AND SEAT ASSEMBLY, Float							1	A, B
*	233-614	ASSEMBLY, Float valve, seat and gasket (matched)							1	C
120	A242-525	VALVE ASSEMBLY, Mixture metering							1	A, B, C
121	A261-501	RATCHET ASSEMBLY, Safety, air meter. jet							1	A, B
122*	A298-1	SEAL, Lead							1	A, B, C

\* - Parts stocked by Avco Lycoming.

\*\* - Standard washers.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-4 - CARBURETORS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION	
			1 2 3 4 5	STD. W-C.F.		
1	A10-5045	CARBURETOR ASSEMBLY, Marvel-Schebler, HA-6			1	D
2	10-5050	ASSEMBLY, Body			1	D
3	12-1090	ASSEMBLY, Throttle lever			1	D
4	13-1448	ASSEMBLY, Throttle shaft			1	D
5	14-348	VALVE, Throttle			1	D
6	15-126	SCREW, Throttle stop			1	D
7	15-A1	SCREW, Pump lever			1	D
8	15-A22	SCREW, Drill plug			2	D
9	15-A23	SCREW, Throttle valve			2	D
10	15-A48	SCREW, Drill plug			3	D
11	15-B120	SCREW, Cam lever			1	D
12	15-B126	SCREW, Bowl cover			6	D
13	15-B126	SCREW, Pump lever, clamp			1	D
14	15-B135	SCREW, Throttle lever clamp			1	D
15	15-A260	SCREW, Cam lever lock (allen head)			1	D
16	16-367	GASKET, Power jet			1	D
17	16-A32	GASKET, Float valve seat			1	D
18	16-A56	GASKET, Air metering jet plug			1	D
19	16-A108	GASKET, Fuel inlet fitting			2	D
20	16-B56	GASKET, Bowl cover			1	D
21	16-B57	GASKET, Pump discharge valve			1	D
22	16-B58	GASKET, Main nozzle			1	D
23	16-B59	GASKET, Secondary nozzle			1	D
24	16-731	GASKET SET, Not illustrated			1	D
25	24-351	SPRING, Pump			1	D
26	24-A1	SPRING, Idle needle			1	D
27	24-A30	SPRING, Air metering pin			1	D
28	24-A39	SPRING, Throttle stop screw			1	D
29	24-B72	SPRING, Throttle return			1	D
30	24-B73	SPRING, Fuel cut-off valve			1	D
31	29-182	CLIP, Float valve			1	D
32	30-757	FLOAT			1	D
33	32-61	SHAFT, Float			1	D
34	36-587	VALVE, Pump inlet check			1	D
35	36-588	VALVE, Pump outlet check			1	D
36	43-564	NEEDLE, Idle adjusting			1	D
37	44-66	PACKING, Pump rod and air metering rod			2	D
38	44-116	O-RING, Throttle shaft			2	D
39	44-127	O-RING, Pump rod and air metering rod			2	D
40	44-179	O-RING, Fuel cut-off valve			1	D
41	44-216	O-RING, Pressure take-off plug			1	D
42	46-A257	VENTURI			1	D
43	47-A109	NOZZLE, Main well			1	D
44	47-A128	NOZZLE, Secondary			1	D
45	49-A79	JET, Air metering pin			1	D
46	49-A52	JET, Accelerator discharge			1	D
47	49-A80	JET, Power			1	D
48	55-255	RETAINER, Throttle shaft o-ring			2	D
49	55-A123	RETAINER, Pump and air metering rod o-ring			4	D
50	56-589	COVER, Bowl			1	D
51	60-A160	BUSHINGS, Throttle shaft			2	D
52	60-A163	BUSHING, Fuel cut-off valve			1	D
53	62-56	PIN, Pump spring seat			1	D
54	62-A19	PIN, Pump link			2	D
55	62-A31	PIN, Throttle stop			1	D
56	68-93	FITTING, Fuel inlet			2	D

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

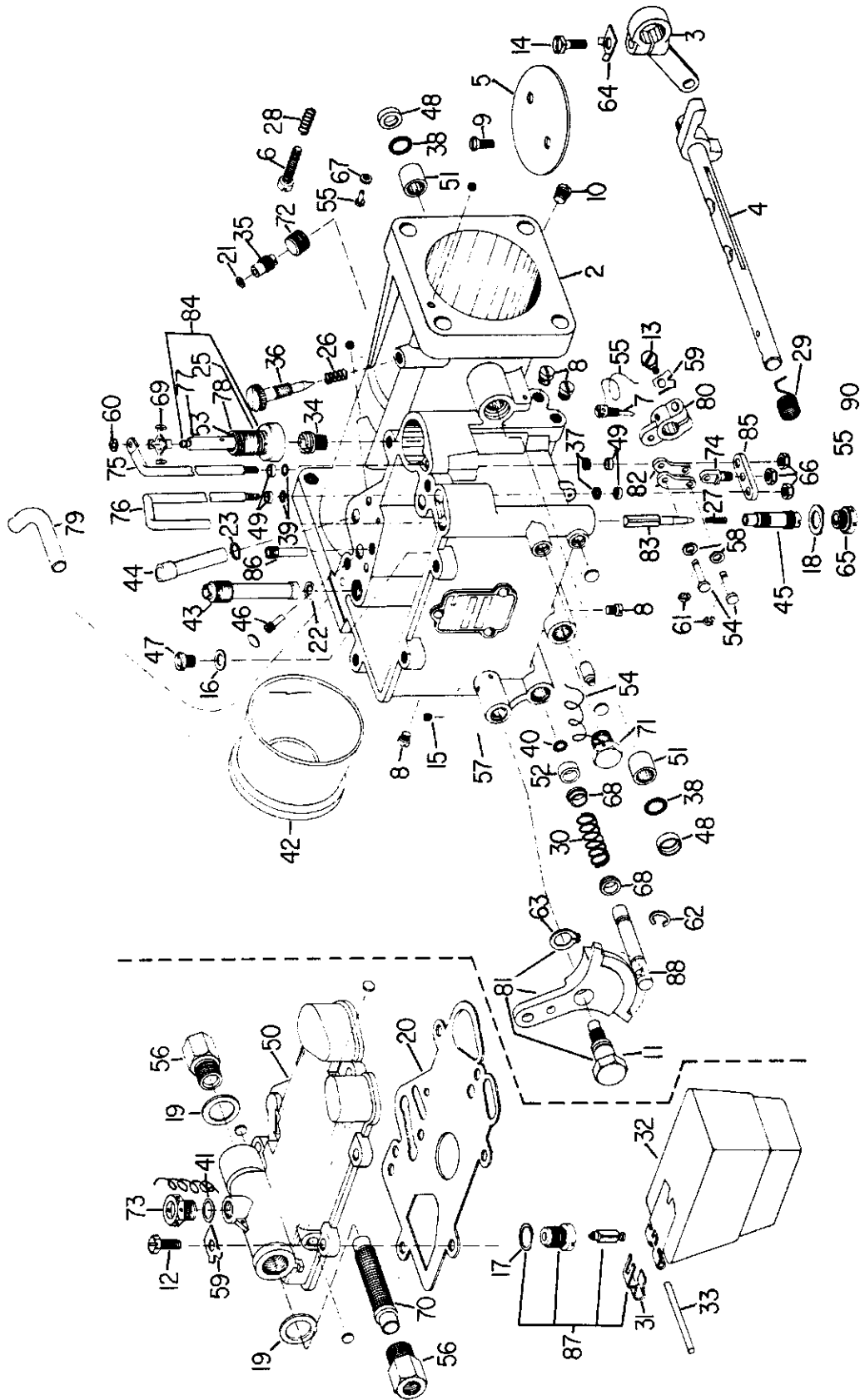


Figure 46A. Carburetor Assembly (Marvel-Schebler, Model HA-6)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION (CONT.)  
8-5 - CARBURETORS

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.					MODEL APPLICATION	
			1	2	3	4	5		
57	71-37	PIN, Cam screw lock						1	D
58	78-430	WASHER, Pump link pin						2	D
59	78-A122	WASHERS, Pump lever and bowl cover screws						7	D
60	78-A123	WASHER, Tru-arc pump to pump rod						1	D
61	78-A124	WASHER, Tru-arc pump link pins						2	D
62	78-A125	WASHER, Tru-arc fuel cut-off valve						1	D
63	78-A127	WASHER, Tru-arc cam lever screw						1	D
64	78-A128	WASHER, Lock, throttle lever screw						1	D
65	80-151	PLUG, Air metering channel						1	D
66	81-298	NUT, Pump links						3	D
67	81-308	NUT, Push throttle stop pin						1	D
68	88-91	GUIDE, Spring, fuel cut-off						2	D
69	88-92	GUIDE, Pump rod						1	D
70	95-530	STRAINER, Fuel inlet						1	D
71	99-8	PLUG, Bowl drain						1	D
72	99-34	PLUG, Pump outlet check valve						1	D
73	99-37	PLUG, Fuel pressure port						1	D
74	104-28	BOLT, Pump link						1	D
75	119-112	ROD, Pump plunger actuating						1	D
76	119-113	ROD, Air metering valve actuating						1	D
77	119-114	ROD, Pump plunger						1	D
78	125-17	SEAT, Pump spring						1	D
79	154-131	TUBE, Pitot						1	D
80	155-650	LEVER, Pump operating						1	D
81	155-657	ASSEMBLY, Cam						1	D
82	168-366	LINK, Pump operating						1	D
83	173-159	PIN, Air metering						1	D
84	194-625	ASSEMBLY, Pump plunger						1	D
85	198-223	PLATE, Pump and economizer linkage						1	D
86	229-589	TUBE, Idle						1	D
87	233-614	ASSEMBLY, Float and valve seat						1	D
88	252-68	VALVE, Fuel cut-off						1	D
89	286-1583	KIT, Repair, Not Ill.						1	D
90	298-1	SEAL, Lead						1	D

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-6 - MAGNETOS S4LN-20, -21

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2	
			STD.	W.C.F.	
	10-51360-29	MAGNETO, Bendix Scintilla, S4LN-20	1	1	A
	10-51360-30	MAGNETO, Bendix Scintilla, S4LN-21	1	1	B
	10-51360-45	MAGNETO, Bendix Scintilla, S4LN-21		1	C
1	10-50727-Y	HOUSING, Magneto	1	1	A, B, C
2	10-157134	PLUG, Ventilator, magneto housing	1	1	A, B, C
3	10-160886	COIL	1	1	A, B
	10-357165	COIL		1	C
4	10-50765	CLAMP, Coil core	2	2	A, B, C
5	10-35937-8	SCREW, With lockwasher, coil core clamp	2	2	A, B, C
	10-35937-8	SCREW, With lockwasher, breaker cover ventilator	2	2	A, B, C
6	10-81806	BEARING, Ball, magnet drive end	1	1	A, B, C
7	2-161-1	WASHER, Flat, 0.0025 in. thick	AR	AR	A, B, C
	2-161-2	WASHER, Flat, 0.004 in. thick	AR	AR	A, B, C
	2-161-3	WASHER, Flat, 0.005 in. thick	AR	AR	A, B, C
	2-161-4	WASHER, Flat, 0.008 in. thick	AR	AR	A, B, C
	2-161-5	WASHER, Flat, 0.010 in. thick	AR	AR	A, B, C
	2-161-6	WASHER, Flat, 0.012 in. thick	AR	AR	A, B, C
	2-161-7	WASHER, Flat, 0.015 in. thick	AR	AR	A, B, C
(Drive End Bearing)					
8	10-52945	MAGNET, Rotating	1	1	A
	10-52947	MAGNET, Rotating	1	1	B, C
9	10-90788-5	KEY, Woodruff, small gear	1	1	A, B, C
	10-90788-5	KEY, Woodruff, magnet rotating, drive end	1	1	A, B, C
	10-90788-5	KEY, Woodruff, impulse coupling bushing	1	1	B, C
10	10-157123-Y	GEAR, Small	1	1	A, B, C
11	10-3503	WASHER, Plain, breaker end breaker	1	1	A, B, C
12	2-199-1	WASHER, Plain, 0.0025 in. thick	AR	AR	A, B, C
	2-199-2	WASHER, Plain, 0.004 in. thick	AR	AR	A, B, C
	2-199-3	WASHER, Plain, 0.005 in. thick	AR	AR	A, B, C
	2-199-4	WASHER, Plain, 0.008 in. thick	AR	AR	A, B, C
	2-199-5	WASHER, Plain, 0.010 in. thick	AR	AR	A, B, C
	2-199-6	WASHER, Plain, 0.012 in. thick	AR	AR	A, B, C
(Breaker End Bearing)					
13	2-202	BEARING, Ball, magnet breaker end	1	1	A, B, C
14	10-88543-1	CAM, Breaker	1	1	A, B
	10-88543-5	CAM, Breaker		1	C
15	10-51354	WASHER, Plain, cam screw	1	1	A, B, C
16	10-35936-10	SCREW WITH LOCKWASHER	1	1	A, B, C
17	10-52917	HOUSING, Distributor	1	1	A, B
	10-106498	HOUSING, Distributor		1	C
18	10-157135	PLUG, Distributor housing	1	1	A, B, C
19	10-52949	BLOCK, Distributor	1	1	A, B, C
20	10-50737	SPRING, Helical, high tension cable contact	4	4	A, B, C
21	10-163374	STRIP, Felt, electrode side	1	1	A, B, C
22	10-50752	WASHER, Felt ring side	1	1	A, B, C
23	10-102083	SCREW, With plain and lockwasher, distributor block	3	3	A, B, C
24	10-50746-Y	GEAR, Distributor, large	1	1	A, B, C
25	10-70753	WASHER, Plain, distributor gear axle	1	1	A, B, C
26	10-92815-37	RING, Retaining, distributor gear axle	1	1	A, B, C
27	10-160844	BRUSH, Electrical contact	1	1	A, B, C
28	10-157158	SCREW, With lockwasher (distributor housing to magneto housing)	5	5	A, B, C

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

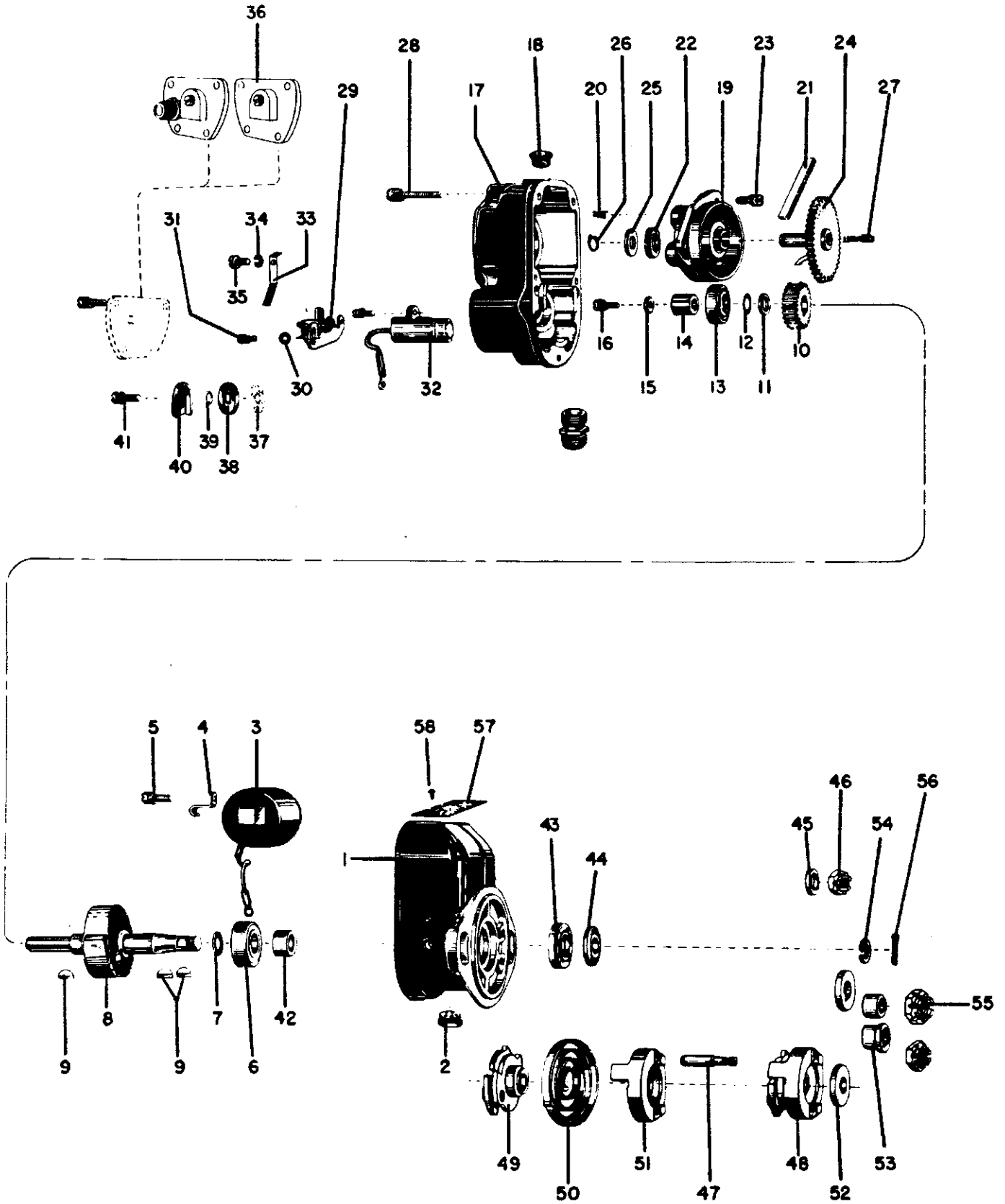


Figure 47. Magneto Assembly (Bendix, Models -20 and -21 Series)



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-7 - MAGNETOS S4LN-20, -21 (CONT.)

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2	
29	10-52953-U	CONTACT ASSEMBLY, Tungsten	1	1	A, B
	10-382585	CONTACT ASSEMBLY, Tungsten		1	C
30	10-14268	WASHER, Plain, contact assembly securing screw, adjusting end	1	1	A, B, C
31	10-35935-5	SCREW, With lockwasher, contact assembly securing	2	2	A, B, C
	10-35936-6	SCREW, With lockwasher, capacitor	1	1	A, B
32	10-51676	CAPACITOR	1	1	A, B
	10-163131	CAPACITOR		1	C
33	10-102090	SPRING, Ground terminal	1	1	A, B
34	2-194	WASHER, Lock, ground terminal screw	1	1	A, B
35	10-16476	SCREW, Fill. hd., ground terminal	1	1	A, B
36	10-52939-Y	COVER, Breaker	1	1	A, B
	10-163136	COVER, Breaker		1	C
	10-163384*	DISC		1	C
	10-163177*	NUT, Cap		1	C
37	10-9354	SCREEN, Ventilator breaker cover	1	1	A, B
38	10-116197	RETAINER, Ventilator screen, breaker cover	1	1	A, B
39	10-32438	WASHER, Ventilator shield, breaker cover	1	1	A, B
40	10-9967	SHIELD, Ventilator breaker cover	1	1	A, B
41	10-157160	SCREW, With lockwasher, breaker cover	4	4	A, B, C
42	10-25788	BEARING SLEEVE, Drive shaft	1	1	A, B
	10-357078	BEARING SLEEVE, Drive shaft		1	C
43	10-27448	OIL SEAL, Drive shaft	1	1	A, B, C
44	10-51678	DEFLECTOR, Oil, drive shaft	1	1	A, B, C
45	10-4093	WASHER, Plain, drive shaft nut	1	1	A
46	10-163151	NUT, Drive shaft	1	1	A
47	10-56513	PIN, Stop, impulse coupling	2	2	B, C
48	10-59474	IMPULSE COUPLING (25° lag)	1	1	B, C
49	10-59437	CAM, Impulse coupling	1	1	B, C
50	10-51324	SPRING, Main, impulse coupling	1	1	B, C
51	10-52903	BODY, Impulse coupling	1	1	B, C
52	10-51370	WASHER, Plain, impulse coupling	1	1	B, C
53	10-51659	BUSHING, Impulse coupling	1	1	B, C
54	10-3793	WASHER, Lock, drive shaft nut	1	1	B, C
55	10-51643	NUT, Drive shaft	1	1	B, C
56	10-90751-19	PIN, Cotter, drive shaft nut	1	1	A, B, C
57	10-357012	PLATE, Identification	1	1	A, B, C
58	10-90500-5	SCREW, Drive, identification plate	2	2	A, B, C

\* - Not illustrated.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-8 - MAGNETOS S4LN-200, -204

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION						
			1	2		3	4	5	STD.	W.C.F.	
	10-163005-2	MAGNETO, Bendix, S4LN-204							1	1	A
	10-163045-6	MAGNETO, Bendix, S4LN-204							1	1	B
	10-163045-3	MAGNETO, Bendix, S4LN-200							1	1	C
1	10-160858	HOUSING, Magneto							1	1	A, B, C
2	10-157134	PLUG, Ventilator, magneto housing							1	1	A, B, C
3	10-157165	COIL							1	1	A, B, C
4	10-50765	CLAMP, Coil core							2	2	A, B, C
5	10-35937-8	SCREW, With lockwasher, coil core clamp							2	2	A, B, C
6	10-81806	BEARING, Ball, magnet drive end							1	1	A, B, C
7	2-161-1	WASHER, Flat, 0.0025 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-2	WASHER, Flat, 0.004 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-3	WASHER, Flat, 0.005 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-4	WASHER, Flat, 0.008 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-5	WASHER, Flat, 0.010 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-6	WASHER, Flat, 0.012 in. thick, magnet dr. end							AR	AR	A, B, C
	2-161-7	WASHER, Flat, 0.0015 in. thick, magnet dr. end							AR	AR	A, B, C
8	10-52945	MAGNET, Rotating							1	1	A, B, C
9	10-90788-5	KEY, Woodruff, small distributor gears							1	1	A, B, C
	10-90788-5	KEY, Woodruff, drive shaft							1	1	A, B, C
10	10-157123-Y	GEAR, Distributor, small							1	1	A, B, C
11	10-3503	WASHER, Plain, breaker end bearing							1	1	A, B, C
12	2-199-1	WASHER, Flat, 0.0025 in. thick, breaker end bearing							AR	AR	A, B, C
	2-199-2	WASHER, Flat, 0.004 in. thick, breaker end bearing							AR	AR	A, B, C
	2-199-3	WASHER, Flat, 0.005 in. thick, breaker end bearing							AR	AR	A, B, C
	2-199-4	WASHER, Flat, 0.008 in. thick, breaker end bearing							AR	AR	A, B, C
	2-199-5	WASHER, Flat, 0.010 in. thick, breaker end bearing							AR	AR	A, B, C
	2-199-6	WASHER, Flat, 0.012 in. thick, breaker end bearing							AR	AR	A, B, C
13	2-202	BEARING, Ball, magnet breaker end							1	1	A, B, C
14	10-88543-5	CAM, Breaker							1	1	A, B, C
15	10-51354	WASHER, Plain, cam screw							1	1	A, B, C
16	10-35936-10	SCREW, With lockwasher, cam							1	1	A, B, C
17	10-106492	HOUSING, Distributor							1	1	A
	10-106498	HOUSING, Distributor							1	1	A, B, C
18	10-157135	PLUG, Distributor housing							1	1	A, B, C
19	10-52949	BLOCK, Distributor							1	1	A, B, C
20	10-50737	SPRING, Helical							4	4	A, B, C
21	10-163374	STRIP, Felt (electrode side)							1	1	A, B, C
22	10-50752	WASHER, Felt (ring side)							1	1	A, B, C
23	10-102083	SCREW, With plain and lockwashers							3	3	A, B, C
24	10-50746-Y	GEAR, Distributor, large							1	1	A, B, C
25	10-50753	WASHER, Plain, distributor gear axle							1	1	A, B, C
26	10-31282	RING, Retaining, distributor gear axle							1	1	A, B, C
27	10-160844	BRUSH, Carbon							1	1	A, B, C
28	10-157158	SCREW, With lockwasher, distributor housing to magneto housing							5	5	A, B, C

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-9 - MAGNETOS, S4LN-200, -204 (CONT.)

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION						
			1	2		3	4	5	STD.	W.C.F.	
29	10-382584	CONTACT ASSEMBLY, Tungsten, R. H.							1	1	A
	10-382585	CONTACT ASSEMBLY, Tungsten, L. H.							1	1	B, C
	10-361631	CONTACT ASSEMBLY, Silver-Cad., L. H.								1	B*
30	10-9858	WASHER, Plain								2	B
	10-14268	WASHER, Plain							2	2	A
	10-14268	WASHER, Plain							1	1	B, C
31	10-35936-7	SCREW, With lockwasher							4	4	A, C
	10-35936-7	SCREW, With lockwasher								2	B
32	10-361624	PLATE, Breaker insulating								1	B
33	10-361639	BUSHING, Insulating								2	B
34	10-163194	SHEET, Insulation							1	1	A
35	10-157241	LEAD, Retard assembly							1	1	A
36	10-163131	CAPACITOR							1	1	A, B, C
37	10-35935-5	SCREW, With lockwasher, capacitor to breaker cover							2	2	A, B, C
38	10-163136	COVER, Breaker							1	1	A, C
39	10-361637	COVER ASSEMBLY, Tachometer breaker								1	B
40	10-157160	SCREW, With lockwasher, breaker cover							4	4	A, B, C
41	10-163384	DISC							1	1	B, C
42	10-163177	NUT, Cap							1	1	C
43	10-25788	BEARING, Sleeve, drive shaft							1	1	A, B, C
44	10-27448	SEAL, Oil, drive shaft							1	1	A, B, C
45	10-51678	DEFLECTOR, Oil (drive shaft)							1	1	A, B, C
46	10-4093	WASHER, Drive shaft nut							1	1	A, B, C
47	10-163151	NUT, Drive shaft							1	1	A, B, C
48	10-90751-19	PIN, Cotter, drive shaft nut							1	1	A, B, C
49	10-357011	PLATE, Identification							1	1	A, B, C
50	10-90500-5	SCREW, Drive							2	2	A, B, C

\* - Optional on magneto S4LN-204 P/N 10-163045-6.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-10 - MAGNETOS, -1200 SERIES

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
	10-349305-1	MAGNETO, Bendix, S4LN-1209		1	A
	10-349305-5	MAGNETO, Bendix, S4LN-1209		1	B
	10-349365-2	MAGNETO, Bendix, S4LN-1227		1	C
1	10-35937-24	SCREW, With lockwasher, cover securing		1	A, B, C
2	10-92873-302	NUT, Stud		4	A, B, C
	10-92873-302	NUT, Retard, lead contact screw		1	B
3	10-90701-5	WASHER, Stud outside		4	A, B, C
	10-90701-5	WASHER, Stud securing		4	A, B, C
4	10-349393-2	COVER, Magneto		1	A, C
	10-349393-3	COVER, Magneto		1	B
5	10-125996	BUSHING, Retard lead securing screw		1	B
6	10-35937-12	SCREW, Retard lead securing		1	B
7	10-349269	LEAD, Retard		1	B
8	10-16092	WASHER, Retard lead securing screw		1	B
	10-35935-6	SCREW, Capacitor securing		2	A, B, C
10	10-349276	CAPACITOR		1	A, B, C
11	10-349263	PACKING, Capacitor mounting		1	A, B, C
12	10-349221	STUD, Double end, distributor block securing		4	A, B, C
13	10-78655	WASHER, Stud securing		4	A, B, C
14	10-92815-37	RING, Retaining, gear axle		1	A, B, C
15	10-349511	WASHER, Gear axle		1	A, B, C
16	10-50752	WASHER, Felt, gear axle		1	A, B, C
17	10-349211	BLOCK, Distributor		1	A, B, C
18	10-50737	SPRING, Helical		4	A, B, C
19	10-163374	STRIP, Felt, distributor block		1	A, B, C
20	10-349234	GEAR ASSEMBLY, Large		1	A, B, C
21	10-160844	BRUSH, Carbon		1	A, B, C
22	10-35936-7	SCREW, Contact assembly securing		2	A, B, C
	10-35936-7	SCREW, Coil lead clamp		1	A, B, C
22A	10-5752	CLIP, Cable, Not Illustrated		1	A, C
23	10-14268	WASHER, Contact assembly securing screw		1	A, B, C
24	10-382585	CONTACT ASSEMBLY, Tungsten R. H.		1	A, B, C
25	10-35936-10	SCREW, Cam securing		1	A, B, C
26	10-51354	WASHER, Cam securing screw		1	A, B, C
27	10-349243-1	CAM		1	A, B, C
28	10-349326	STRIP, Fish paper		1	A, B, C
29	10-349219	WEDGE, Coil		2	A, B, C
30	10-349271	COIL, Magneto, high tension		1	A, B, C
31	10-90751-19	PIN, Cotter		1	A, B, C
32A	10-163151	NUT, Castellated, drive shaft		1	A, B
32B	10-51643	NUT, Castellated, drive shaft		1	C
33	10-3793	WASHER, Lock, drive shaft nut		1	C
34	10-51659	BUSHING, Impulse coupling		1	C
35	10-90788-5	KEY, Woodruff, drive member		1	C
	10-90788-5	KEY, Woodruff, drive shaft		1	C
36	10-4093	WASHER, Drive shaft nut		1	A, B
36A	10-51370	WASHER, Drive shaft nut		1	C
37	10-349359	IMPULSE COUPLING		1	C
38	10-52903	BODY, Impulse coupling		1	C
39	10-51324	SPRING, Main impulse coupling		1	C
40	10-349357-2	CAM ASSEMBLY, Impulse coupling		1	C
41	10-92815-62	RING, Retaining, drive shaft		1	A, B, C
42	10-349328	WASHER, Flat, flange		1	A, B, C
43	10-349249	WASHER, Bowed, flange		1	A, B, C
44	10-349248	SLINGER, Oil		1	A, B, C
45	10-349652	SCREW, Flange securing		3	A, B, C
46	10-53397	WASHER, Flange securing screw		3	A, B, C
47	10-349392-2	FLANGE, Short round, without stop pins		1	A, B

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

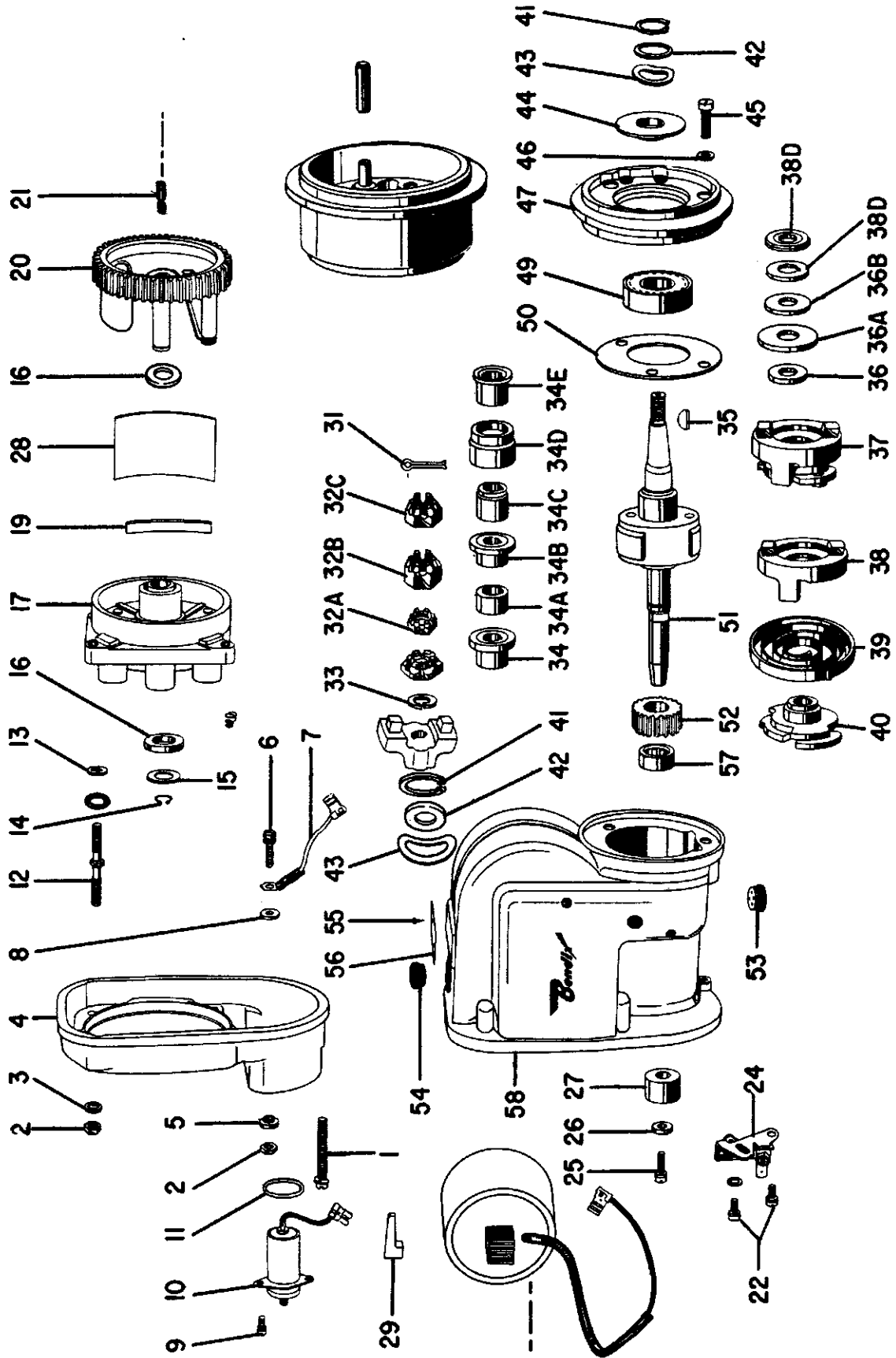


Figure 49. Magneto Assembly (Bendix, Model -1200 Series)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-11 - MAGNETOS, -1200 SERIES (CONT.)

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
								STD.	W.C.F.	
	10-349392-6						FLANGE, Short round, with 2 stop pins		1	C
48	10-349438-R						STOP PIN, Flange, Not Illustrated		2	C
49	10-353056						BEARING, Magneto drive end		1	A, B, C
50	10-349247						PLATE, Bearing retaining		1	A, B, C
51	10-349351-1						MAGNET, Rotating		1	C
	10-349351-3						MAGNET, Rotating		1	A, B
52	10-349241						GEAR, Distributor, small		1	A, B, C
53	10-157134						VENTILATOR		1	A, B, C
54	10-157135						PLUG, Timing		1	A, B, C
55	10-90500-8						SCREW, Identification plate securing		2	A, B, C
56	10-70616						PLATE, Identification		1	A, B, C
57	10-353060						BEARING, Roller		1	A, B, C
58	10-349394-3						HOUSING, Magneto		1	A, B, C

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-12 - STARTER ASSEMBLY, PRESTOLITE

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION				
			1	2		3	4	5	STD.
	MZ-4205	STARTER ASSEMBLY, -12 volt					1	1	A
	MZ-4206	STARTER ASSEMBLY, -12 volt					1	1	B
	MHB-4001	STARTER ASSEMBLY, -24 volt					1	1	C
1	EBB-75A	DRIVE, Bendix					1	1	A, B, C
2	MZ-24A	BAND, Cover					1	1	A, B, C
3	MZ-393	PLATE, Retainer					1	1	A, B, C
4	MZ-394	SHAFT, Bendix drive					1	1	A, B, C
5	MZ-1390	HOUSING ASSEMBLY, Gear					1	1	A, B, C
6	MZ-396	GEAR					1	1	A, B, C
7	MHB-2397	FRAME AND FIELD ASSEMBLY					1	1	C
8	MHB-2399	ARMATURE					1	1	C
9	MHB-2400	HEAD ASSEMBLY, Commutator end					1	1	C
10	MZ-19S	SPRING SET, Brush					1	1	A, B, C
11	XA-997	BEARING, Needle, 1/2 in.					1	1	A, B, C
12	XA-998	BEARING, Needle, .812 in.					1	1	A, B, C
13	PS-1432A	HOUSING ASSEMBLY, Pinion					1	1	A
	PS-1432	HOUSING ASSEMBLY, Pinion					1	1	B, C
14	MZ-389	BEARING, Bronze graphite					1	1	A, B, C
15	MZ-2397	FRAME AND FIELD ASSEMBLY					1	1	A, B
16	MZ-2399	ARMATURE					1	1	A, B
17	MZ-2400	HEAD ASSEMBLY, Commutator end					1	1	A, B
18	X-3212	BEARING, Ball, sealed, armature shaft					1	1	A, B, C
19	P90-601	THRUST WASHER PACKAGE					1	1	A, B, C
20	MBG-2012S	BRUSH SET, Service					1	1	A, B
21	MHB-2012S	BRUSH SET, Service					1	1	C

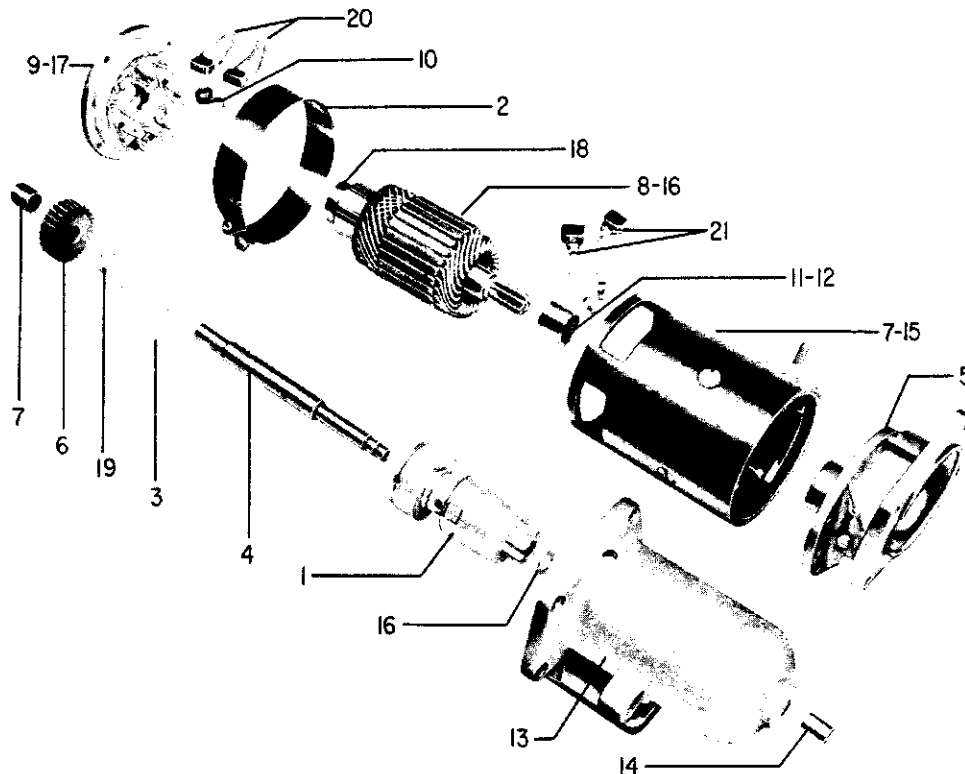


Figure 50. Prestolite Starter Assembly

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-13 - ALTERNATOR, DELCO-REMY

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
	1100717	ALTERNATOR, 12V-70Amp	1		A
	1100718	ALTERNATOR, 24V-50Amp	1		B
1	1964858	FRAME, S. R. E. (Heat sink included)	1		A, B
2	1964512	ROTOR ASSEMBLY	1		A
	1964221	ROTOR ASSEMBLY	1		B
3	1961531	STATOR ASSEMBLY	1		A
	1959531	STATOR ASSEMBLY	1		B
4	1959917	FRAME, D. E.	1		A, B
6	1964354	DIODE	1		A, B
7	1964353	DIODE	1		A, B
8	1965276	BRUSH HOLDER AND BRUSH ASSEMBLY	1		A, B
10	1964117	SPRING, Brush	1		A, B
11	7451326	BEARING, S. R. E.	1		A, B
12	905920	BEARING, D. E.	1		A, B
14	1959832	TERMINAL PACKAGE, Battery	1		A, B
15	1959833	TERMINAL PACKAGE, Ground	1		A, B
17	1959834	TERMINAL PACKAGE, Diode junction	1		A, B
18	1963213	BEARING RETAINER, Assembly	1		A, B
20	1953211	COLLAR, Inside	1		A, B
21	1959991	COLLAR, Outside	1		B
25	9419392	WASHER, Lock, Capacitor terminal screw	1		A, B
27	1941978	WASHER, Lock, shaft nut, D. E.	1		A, B
28	9418854	NUT, Diode junction terminal	1		A, B
29	1915172	NUT, Shaft, D. E.	1		A, B
30	1961526	SCREW, Ball bearing retainer attaching	1		A, B
31	1961530	SCREW, Brush holder attaching	1		A, B
32	9418855	SCREW, Capacitor terminal	1		A, B
	1959523	WASHER, Insulated capacitor screw	1		A, B
33	815540	WASHER, Plain, capacitor terminal screw	1		A, B
	9419392	WASHER, Spring, brush holder attaching screw	1		A, B
34	1961521	BOLT, Thru, 2-1/8 in. long	1		A, B
	1961522	BOLT, Thru, 3-13/32 in. long	1		A, B
35	1959455	CAPACITOR	1		A, B
36	1959532	CLIP, Stator lead terminal	1		A, B
	1952241	INSULATOR, Capacitor terminal screw	1		A, B
39	1959790	RETAINER AND FELT, S. R. E.	1		A, B
	1952244	RING, Collector, D. E.	1		A, B
	1961523	SPACER, D. E.	1		A, B
40	1960750	SPRING, Capacitor retaining	1		A, B





AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-320, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-14 - ALTERNATORS, PRESTOLITE

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
	ALE-8105A	ALTERNATOR ASSEMBLY, 12V-40Amp, Avco Lycoming P/N 76496	1		A
	ALE-8406	ALTERNATOR ASSEMBLY, 12V-40Amp, Avco Lycoming P/N 78308	1		B
	ALX-8403	ALTERNATOR ASSEMBLY, 12V-70Amp, Avco Lycoming P/N 78310	1		C
	ALT-8404	ALTERNATOR ASSEMBLY, 24V-50Amp, Avco Lycoming P/N 78312	1		D
	ALZ-8401	ALTERNATOR ASSEMBLY, 12V-50Amp, Avco Lycoming P/N 78403	1		E
	ALY-8403	ALTERNATOR ASSEMBLY, 12V-60Amp, Avco Lycoming P/N 78407	1		F
	ALU-8403LS	ALTERNATOR ASSEMBLY, 12V-60Amp, Avco Lycoming P/N 79078	1		G
1	P90-2014	BEARING AND SEAL ASSY. , S. R. E.	1		B, C, D, E, F, G
2	ALU-1045A*	BRUSH HOLDER ASSEMBLY	1		A, B, C, D, E, F, G
3	ALE-1012LS	BRUSH SET, Service	1		A
	ALE-1012NS	BRUSH SET, Service	1		B, C, D, E, F, G
4	ALA-19S	SPRING SET, Brush	1		A, B, C, D, E, F, G
5	ALU-1062	COVER, Slip ring end	1		A
	ALU-1062A	COVER, Slip ring end	1		B, C, D, E, F, G
6	P90-818*	EYELET PACKAGE	1		B, C, D, E, F, G
7	PU-1805A	FAN, Ventilating	1		A, B, C, D, E, F, G
8	ALE-1003E	HEAD ASSEMBLY, Drive end	1		A
	ALE-1003N	HEAD ASSEMBLY, Drive end	1		B, C, D, E, F, G
9	X-3416	BEARING, Ball, SAE #203	1		A, B, C, D, E, F, G
10	ALE-1002-LS	HEAD ASSEMBLY, Slip ring end	1		A
	ALK-1032-LS	HEAD ASSEMBLY, Slip ring end	1		B, E, F, G
	ALK-1032-CS	HEAD ASSEMBLY, Slip ring end	1		C, D
11	X-3578	BEARING, Roller	1		A
	XA-1028	BEARING, Needle, roller	1		D
12	XA-944J	RECTIFIER, Negative	3		A, B, C, D, E, F, G
	XA-1027	SEAL, Bearing	1		D
13	P90-33	NUT AND WASHER PACKAGE	1		A, B, C, D, E, F, G
14	ALE-4	PLATE, Rectifier mounting	1		A
	ALE-54A	PLATE, Rectifier mounting	1		B, E
	ALE-54D	PLATE, Rectifier mounting	1		D
15	ALE-1054G*	PLATE ASSEMBLY, Rectifier	1		C, F, G
16	PU-672	PULLEY, Drive	1		A, B, C, D, E
17	XA-943-F	RECTIFIER, Positive	3		A, B, C, D, E, F, G
18	GR-32	RETAINER, Drive end	1		A, B, C, D, E, F, G
19	ALE-2016	ROTOR ASSEMBLY	1		A
	ALE-2073S	ROTOR ASSEMBLY	1		B, E, F, G
	ALH-2028S	ROTOR ASSEMBLY	1		C
	ALT-2028S	ROTOR ASSEMBLY	1		D
20	ALD-21	SPACER, Rotor shaft	1		A, B, C, D, E, F, G
21	ALE-2008-W	STATOR ASSEMBLY	1		A
	ALE-2008-AD	STATOR ASSEMBLY	1		B
	ALE-2008-AB	STATOR ASSEMBLY	1		C
	ALE-2008-AA	STATOR ASSEMBLY	1		D
	ALE-2008-AG	STATOR ASSEMBLY	1		E
	ALE-2008-AE	STATOR ASSEMBLY	1		F, G
22	P90-356-A	TERMINAL STUD AND PARTS PACKAGE	1		A
	P90-506	TERMINAL STUD AND PARTS PACKAGE	1		B, D, E
	P90-2030	TERMINAL STUD AND PARTS PACKAGE	1		C, F, G
23	ALA-20FS	THRU BOLT PACKAGE	1		A
	ALA-20JS	THRU BOLT PACKAGE	1		B, E, F, G
	ALA-20GS	THRU BOLT PACKAGE	1		C, D

\* - Not illustrated.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

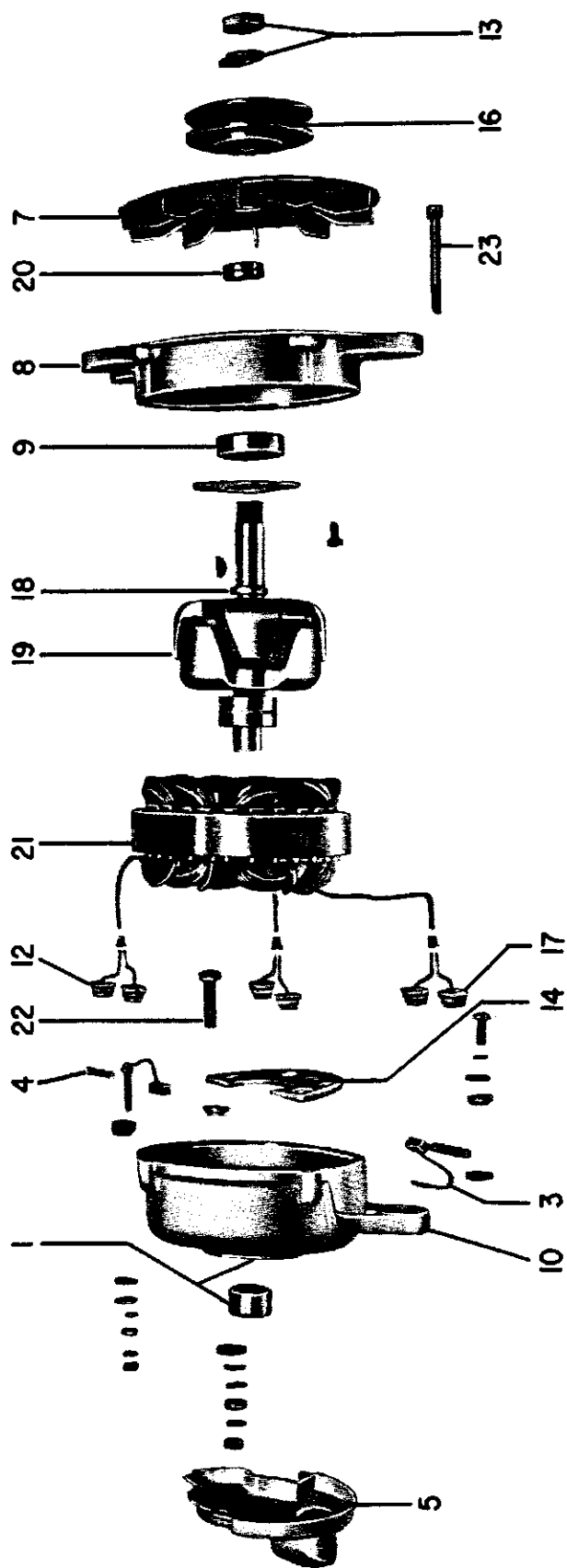


Figure 52. Alternator Assembly (Prestolite)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-15 - GENERATOR ASSEMBLY, DELCO-REMY

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION	
			1	2		3
			STD.	W.C.F.		
	1101899	GENERATOR, 12V-20Amp, Avco Lycoming P/N 68764			1	A
	1101900	GENERATOR, 12V-35Amp, Avco Lycoming P/N 68767			1	B
	1101901	GENERATOR, 24V-15Amp, Avco Lycoming P/N 68765			1	C
	1101915	GENERATOR, 12V-50Amp, Avco Lycoming P/N 71744			1	D
	1105052	GENERATOR, 24V-40Amp, Avco Lycoming P/N 71980			1	E
	1105055	GENERATOR, 24V-50Amp, Avco Lycoming P/N 72695			1	F
1	1922813	FIELD COIL			2	A
	1925031	FIELD COIL			2	B, C
	1917288	FIELD COIL			2	D
	1945098	FIELD COIL, Right			1	E
	1945099	FIELD COIL, Left			1	E
	1952237	FIELD COIL, Right			1	F
	1952238	FIELD COIL, Left			1	F
2	1916747	SHOE, Pole			2	A
	1914618	SHOE, Pole			2	B, C, D
	1918004	SHOE, Pole			2	E, F
3	1843656	SCREW, Pole shoe			2	A, B, D, E, F
	453647	SCREW, Pole shoe			2	C
4	1927842	ARMATURE			1	A
	1928664	ARMATURE			1	B
	1945122	ARMATURE			1	C
	1928648	ARMATURE			1	D
	1945105	ARMATURE			1	E
	1952240	ARMATURE			1	F
5	954143	BALL BEARING, Drive end			1	A, B, C, D
	900529	BALL BEARING, Drive end			1	E, F
6	809945	WASHER, Spacer - inside			1	A, B, C, D, F
7	1927844	PLATE, Bearing retainer			1	A, B, C, D, E
	1952245	PLATE, Bearing retainer			1	F
8	1880781	LOCKWASHER, Bearing plate			3	A, B, D, E, F
	1914123	LOCKWASHER, Bearing plate			3	C
9	5017850	SCREW, Bearing plate			3	
10	1925832	FRAME, Drive end			1	A, B, C, D
	1945101	FRAME, Drive end			1	E, F
11	1909159	TERMINAL STUD AND LEAD			1	A, B, D
	1914186	TERMINAL STUD AND LEAD			1	C, E, F
12	1858751	TERMINAL STUD			1	A, B, C, D, F
	1910359	TERMINAL STUD			1	E
13	1858753	WASHER, Insulated, terminal stud			2	A, E, F
	1902746	WASHER, Insulated, terminal stud			2	B, C, D
14	1881409	WASHER, Plain, terminal stud			2	
15	1904661	LOCKWASHER, Terminal stud			4	
16	121743	NUT, Terminal			4	
17	200242	TERMINAL CLIP, To brush, left			1	A, B, D
	455613	TERMINAL CLIP, To brush, right			1	A, B, D
	200362	TERMINAL CLIP, To brush			2	C, E, F
18	1906984	BRUSH			2	A, B, C, D
	1906974	BRUSH			2	E, F
19	1904377	LOCKWASHER, Brush lead			2	
20	132688	SCREW, Brush lead			2	A, B, D, E, F
	453460	SCREW, Brush lead			2	C
21	1903720	SPRING, Brush			2	

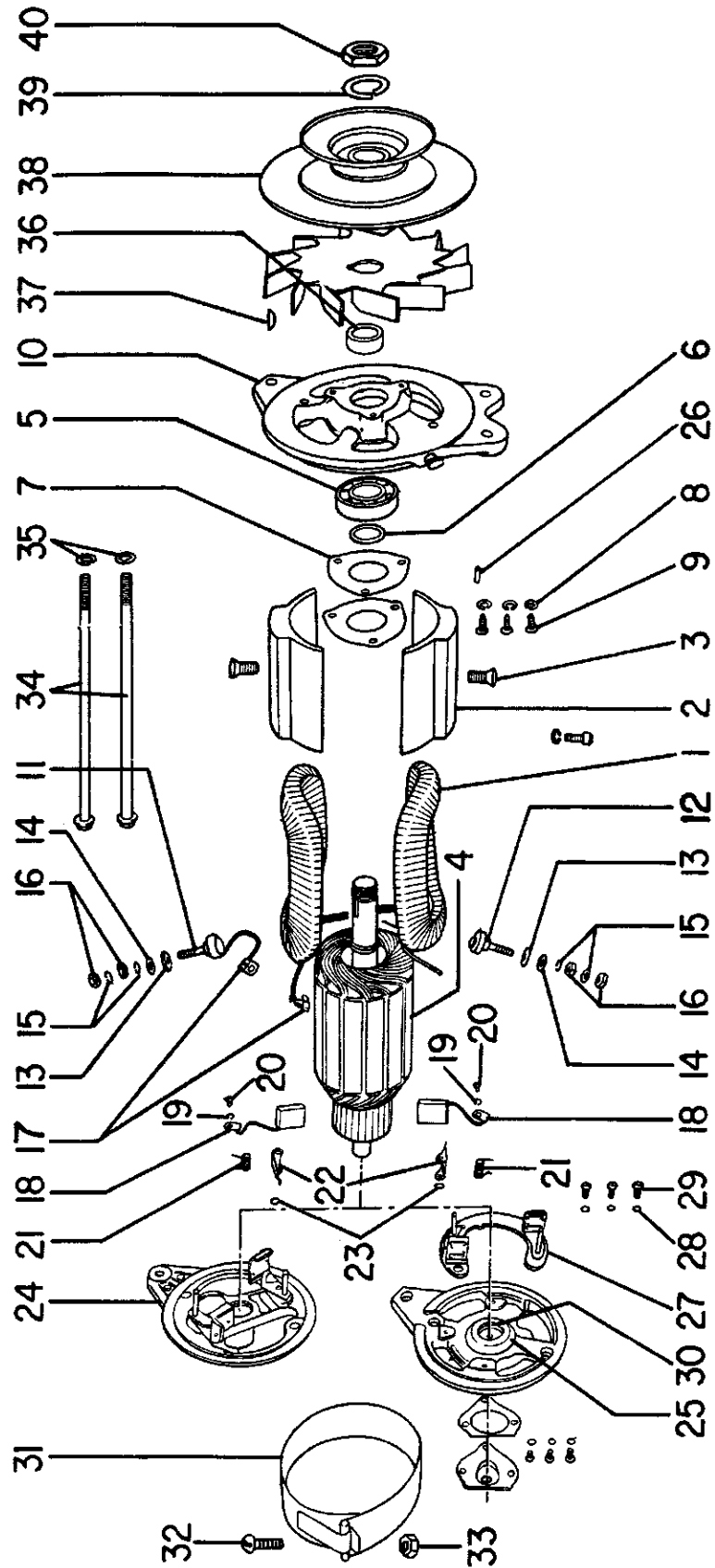


Figure 53. Generator Assembly (Delco-Remy)

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 8 - VENDOR ACCESSORY SECTION  
8-16 - GENERATOR ASSEMBLY, DELCO-REMY (CONT.)

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
22	1850759	ARM, Brush		2	A, B, C, D
23	1857412	WASHER, Brush arm, spacer		2	
24	1945109	FRAME, Commutator end, aluminum		1	E, F
25	1908839	FRAME, Commutator end, cast iron		1	A, B, D
	1943590	FRAME, Commutator end, cast iron		1	C
26	1886684	DOWEL PIN		2	A, B, C, D
27	1908999	PLATE, Brush		1	A, B, C, D
28	121841	LOCKWASHER, Brush plate		3	A, B, D
	453299	LOCKWASHER, Brush plate		3	C
29	1886496	SCREW, Brush plate		3	A, B, D
	454408	SCREW, Brush plate		3	C
30	954162	BALL BEARING, Commutator end		1	A, B, C, D
	900529	BALL BEARING, Commutator end		1	E, F
31	1910131	BAND, Cover		1	A, B, C, D
	1945106	BAND, Cover		1	E, F
32	132923	SCREW, Cover band		1	
33	120614	NUT, Cover band		1	A, B, D, E, F
	453433	NUT, Cover band		1	C
34	1908844	BOLT, Thru		2	A
	1908680	BOLT, Thru		2	B, C, D
	1886685	BOLT, Thru		2	E, F
35	120638	LOCKWASHER, Thru bolt		2	
36	186159	COLLAR, Spacer, outside		1	A, B, C, D
	1914198	COLLAR, Spacer, outside		1	E, F
37	124545	WOODRUFF KEY, Drive end		1	
38	1908843	PULLEY		1	
39	1888439	LOCKWASHER, Shaft		1	F
40	1935548	NUT, Shaft		1	

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

AVCO LYCOMING PARTS CATALOG

O-360, HO-360 SERIES

SECTION 9

SERVICE KITS

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 9 - SERVICE KITS SECTION

9-1 - SEAL AND GASKET KIT (ALL MODELS) AVCO LYCOMING P/N 75439-1

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
								STD.	W.C.F.	
1	AN901-8A						GASKET	1	1	
2	STD-111						GASKET	1	1	
3	STD-208						SEAL, Oil	1	1	
4	STD-213						SEAL, Oil, fuel pump	1	1	
5	STD-294						GASKET	2	2	
6	STD-1045						GASKET	1	1	
7	1691-C						GASKET, Fuel pump	1	1	
8	8313						GASKET, Vacuum pump	1	1	
9	60096						GASKET, Fuel pump	1	1	
10	71973						GASKET, Intake flange	4	4	
11	61156						LOCKPLATE, Crankshaft gear	1	1	
12	61165						SEAL, Tachometer drive	1	1	
13	61173						GASKET, Oil pressure housing	1	1	
14	61183						GASKET, Accessory adapter	1	1	
15	75906						GASKET, Rocker box cover	4	4	
16	73818						GASKET, Accessory housing	1	1	
17	62224						GASKET, Magneto adapter	3	3	
18	65321						GASKET, Exhaust flange	4	4	
19	66224						GASKET, Carburetor	2	2	
20	68315						GASKET, Accessory drive adapter	1	1	
21	68518						LOCKPLATE, Shroud tube	4	4	
22	68972						GASKET, Oil sump	1	1	
23	69164						GASKET, Fuel pump adapter	1	1	
24	69551						GASKET, Accessory drive adapter	1	1	
25	70310						SEAL, Shroud tube	8	8	
26	71481						SEAL, Cylinder base	4	4	
27	71646						LOCKPLATE	2	2	
28	72053						GASKET, Governor	1	1	
29	72075						RING, Oil seal	6	6	
30	72078						LOCKPLATE, Camshaft gear	2	2	
31	72091						RING, Oil seal	2	2	
32	73383						LOCKPLATE	2	2	
33	73817						LOCKPLATE, Crankshaft idler gear shaft	2	2	
34	74065						RING, Oil level gage seal	1	1	
35	74068						RING, Oil seal	1	1	
36	76691						GASKET	1	1	
37	76940						SEAL, Crankshaft oil	1	1	
	77377						SEAL, Crankshaft oil	1	1	
38	62922						SEAL, Shroud tube	8	8	
39	76510						GASKET	1	1	



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 9 - SERVICE KITS SECTION  
9-2 - CYLINDER PISTON AND RING KITS

REF. NO.	PART NUMBER	DESCRIPTION					QTY. PER ASS'Y.		MODEL APPLICATION
		1	2	3	4	5	STD.	W.C.F.	

NOTE

Because of the similarity of most cylinder, piston and ring Service Kits, one kit will be listed here-in, and all others will show only those parts that are different. When parts are listed to show they are not common to Kit No. 76243, they will bear the same reference number as in Kit 76243.

Avco Lycoming Kit No. 76243 (Plain Cylinder Barrel, Chrome Rings, Full Wedge)  
O-360-A Series, O-360-C Series, High Compression, Standard Crankcase

1	STD-1411	NUT						1
2	STD-1925	SCREW						6
3	60009	KEY, Valve						2
4	60053	SEAL, Shroud tube						2
5	60401	SHAFT, Valve rocker						1
6	60828	PLUG, Piston pin						2
7	75906	GASKET, Rocker box						1
8	61247	COVER, Rocker box						1
9	MS13997-3	KEY, Valve						2
10	MS13998-3	CAP, Valve stem						1
11	76994	SPRING, Valve outer						2
12	65441	SEAT, Valve spring, lower						1
13	65567	SPRING, Valve auxiliary						2
14	73938	VALVE, Intake						1
15	LW-10077	SEAT, Valve spring						1
16	68513	RING, Piston, compression						2
17	68517	SPRING, Shroud tube						2
18	68518	LOCKPLATE, Shroud tube						1
19	69345	SPACER, Shroud tube spring						1
20	69444	ROCKER ASSEMBLY, Valve						1
21	69457	RING, Piston, oil regulating						1
22	LW-10076	SEAT, Valve spring						1
23	70310	SEAL, Shroud tube						2
24	75186	CYLINDER AND HEAD ASSEMBLY						1
25	71481	SEAL, Cylinder base						1
26	71594	PISTON						1
27	74541	VALVE, Exhaust						1
28	69650	PIN, Piston						1
29	71195	BOX, Set-up						1
30	74554	SEAT, Valve spring lower, exhaust						1
31	74636	ROCKER ASSEMBLY						1
32	STD-1215	BOLT						2

Avco Lycoming Kit No. 76244 (Chrome Cylinder, Plain Rings, Full Wedge)  
O-360-A Series, O-360-C Series, High Compression, Standard Crankcase

6	72198	PLUG, Piston pin						2
16	71556	RING, Piston, compression						2
21	72454	RING, Piston, oil regulating						1
24	75362	CYLINDER AND HEAD ASSEMBLY						1

Avco Lycoming Kit No. 76245 (Nitrided Cylinders, Chrome Rings, Half Wedge)  
O-360-A Series, O-360-C Series, HO-360-B1A, -B1B, High Compression, Standard Crankcase

16	74241	RING, Piston compression						2
21	73857	RING, Piston, oil regulating						1

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 9 - SERVICE KITS SECTION  
9-3 - CYLINDER PISTON AND RING KITS (CONT.)

REF. NO.	PART NUMBER	DESCRIPTION	QTY. PER ASS'Y.		MODEL APPLICATION
			1	2 3 4 5	
			STD.	W.C.F.	
24	75363	CYLINDER AND HEAD ASSEMBLY			1
26	75089	PISTON			1
Avco Lycoming Kit No. 76246 (Chrome Cylinders, Plain Rings, Half Wedge) O-360-A Series, O-360-C Series, High Compression, Standard Crankcase					
6	72198	PLUG, Piston pin			2
16	74673	RING, Piston, compression			2
21	73998	RING, Piston, oil regulating			1
24	75362	CYLINDER AND HEAD ASSEMBLY			1
26	75089	PISTON			1
Avco Lycoming Kit No. 77222 (Plain Cylinder, Chrome Rings, Half Wedge) O-360-A Series, O-360-C Series, High Compression, Standard Crankcase					
16	74989	RING, Piston, compression			2
21	73857	RING, Piston, oil regulating			1
24	75186	CYLINDER AND HEAD ASSEMBLY			1
26	75089	PISTON			1
Avco Lycoming Kit No. 76249 (Nitrided Cylinder, Chrome Rings, Half Wedge) O-360-B Series, O-360-D Series, Low Compression, Standard Crankcase					
16	74241	RING, Piston, compression			2
21	73857	RING, Piston, oil regulating (expander)			1
24	75363	CYLINDER AND HEAD ASSEMBLY			1
26	75413	PISTON			1
NOTE					
Avco Lycoming P/N's STD-1411 and STD-1925 are not contained in Kit 76249.					
Avco Lycoming Kit No. 76694 (Plain Cylinders, Chrome Rings, Half Wedge) O-360-B and O-360-D Series, Low Compression, Standard Crankcase					
16	74989	RING, Piston, compression			2
21	73857	RING, Piston, oil regulating (expander)			1
24	75186	CYLINDER AND HEAD ASSEMBLY			1
26	75413	PISTON			1
Avco Lycoming Kit No. 76695 (Chrome Cylinders, Plain Rings, Half Wedge) O-360-B and O-360-D Series, Low Compression, Standard Crankcase					
6	72198	PLUG, Piston pin			2
16	74673	RING, Piston, compression			2
21	73998	RING, Piston, oil regulating (expander)			1
24	75362	CYLINDER AND HEAD ASSEMBLY			1
26	75413	PISTON			1
Avco Lycoming Kit No. 76250 (Chrome Cylinders, Plain Rings, Half Wedge) O-360-A Series, O-360-C Series, High Compression, Wide Cylinder Flange Crankcase					
6	72198	PLUG, Piston pin			2
16	74673	RING, Piston, compression			2
21	73998	RING, Piston, oil regulating (expander)			1
24	75971	CYLINDER AND HEAD ASSEMBLY			1
26	75089	PISTON			1

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360, HO-360 SERIES  
SECTION 9 - SERVICE KITS SECTION  
9-4 - CYLINDER PISTON AND RING KITS (CONT.)

REF. NO.	PART NUMBER	DESCRIPTION					QTY. PER ASS'Y.		MODEL APPLICATION
		1	2	3	4	5	STD.	W.C.F.	
Avco Lycoming Kit No. 76296 (Nitrided Cylinders, Chrome Rings, Half Wedge)									
O-360-A Series, O-360-C Series, High Compression, Wide Cylinder Flange Crankcase									
4	62922	SEAL, Shroud tube						2	
16	74241	RING, Piston, compression						2	
21	73857	RING, Piston, oil regulating (expander)						1	
24	75874	CYLINDER AND HEAD ASSEMBLY						1	
26	75089	PISTON						1	

## **SUPPLEMENTAL PARTS LIST SSP180**

**To Provide Parts Coverage for Avco Lycoming  
0-360-F1A6 Model Aircraft Engines**

**This supplement offers a complete parts list for the 0-360-F1A6 model engines. Parts are arranged here-in in group assemblies similar to those in Parts Catalog PC-106. This allows use of the illustrations in PC-106 with this supplement. Each group assembly listed is headed by a page and illustration figure number corresponding to those in PC-106, followed by the parts list.**

**Use the Table of Contents in the original parts catalog PC-106 to find the page number and illustration of the desired parts (Example: Cylinder Assembly, Page 3-2). The corresponding page in this supplement (Cylinder Assembly, Page 3-2) lists the parts for the 0-360-F1A6 models.**

## 0-360-F1A6

## SECTION 1

Page 1-1 - Figure 1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-16109	CRANKCASE ASSY.	1
6	75154	STUD, 1/2-13 x 10-1/32 long	2
7	50-15	STUD, 1/2-20 x 1-7/8 long	8
11	38-13	STUD, 3/8-16 x 1-5/8 long	19
13	38D-17	STUD, 3/8-16 x 2-1/8 long (drilled)	1
17	LW-13793	STUD, 5/16-18 x 15/16 long dr.	1
15	31C-12	STUD, 5/16-18 x 1-1/2 long	2
16	31C-13	STUD, 5/16-18 x 1-5/8 long	1
14	38-22	STUD, 3/8-16 x 2-3/4 long	1
2	STD-557	DOWEL, 1/2 dia. x 19/32 long, hollow	2
21	72158	BUSHING, Gov. drive idler shaft	1
3	STD-514	DOWEL, 5/16 dia. x 1/2 long	2
4	69796	DOWEL, Crankshaft bearing	2
	LW-10647	DOWEL, Crankshaft bearing	4
20	1102	PLUG, 1/8-27 NPT, Allen hd.	4
23	STD-1623	INSERT, 1/4-20 Heli-coil x 3/8 long	2
24	65007	RETAINER, Shroud tube seal	8
22	STD-1339	PLUG, 1/16-27 NPT, Allen hd.	1
	31C-16	STUD, 5/16-18 x 2.00 long (Driven height of studs 1.31)	4

Page 1-2 - Figure 2  
Crankshaft Assembly, Crankcase Related Parts

1	78717	CAMSHAFT ASSY.	1
2	76121	SHAFT ASSY., Tachometer	1
3	78368	PIN, 11/64 dia. x 2-21/64 long	1
4	76118	SPACER, Tachometer shaft centering	1
5	MS16625-1081	RING, Internal retaining	1
	LW-13796	SHAFT, Crankshaft idler gear	2
	STD-2167	SCREW, 5/16-18 x 7/8 long, hex. hd. dr.	3
	STD-2168	NUT, 5/16-18 NC-3 slotted shear	1
6	61155	GEAR, Crankshaft	1
7	61156	LOCKPLATE, Crankshaft gear	1
8	STD-847	SCREW, 5/16-24 x 1.00 long	1
9	LW-13792	SEAL, Crankshaft oil	1
10	72075	SEAL, Oil, 5/64 section x 15/32 ID	2
11	72091	RING, Oil seal, 23/64 ID x 3/32 dia. section	2
12	72877	BODY, Hydraulic tappet	8
13	78290	PLUNGER ASSY., Hydraulic tappet	8
14	78524	SOCKET, Push rod, hydraulic tappet	8

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SECTION 1 (CONT.)

Page 1-2 - Figure 2 (Cont.)  
Camshaft Assembly, Crankcase Related Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
15	LW-11021	BEARING, Crankshaft	4
16	LW-13884	BEARING, Crankshaft, front	2

Page 1-3 - Figure 3  
Oil Pressure Relief Valve

6	1028-B	BALL, 11/16 dia.	1
7	61084	SPRING, Oil pressure relief valve	1
8	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32 annular	1
9	77808	VALVE ASSY., Oil pressure relief, adjustable	1

Page 1-4 - Figure 4  
Crankshaft Assembly

	LW-12336	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
	LW-17281	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
1	LW-12335	CRANKSHAFT ASSY.	1
	LW-17254	CRANKSHAFT ASSY.	1
2	STD-1211	PLUG, 2.00 dia. expansion	1
4	STD-1065	DOWEL, Stepped, 19/64 and 1/4 dia. x 35/64 long	1
	74710	TUBE, Crankshaft oil	1
5	72060	BUSHING, Prop. flange, indexing	1
8	72061	BUSHING, Prop. flange, short	1
11	72062	BUSHING, Prop. flange, long	4
12	61510	PLUG, 1-3/4 OD	1
	68484	TUBE, Crankshaft propeller oil	1
13	73810	BUSHING, Crankshaft dynamic counterweight	4
14	72801	COUNTERWEIGHT ASSY.	2
15	71903	BUSHING, Dynamic counterweight	8
16	LW-10977	ROLLER, Dynamic counterweight, 8th order	2
17	LW-10945	ROLLER, Dynamic counterweight, 6.3 order	2
18	LW-14820	RING, Internal retaining	8
19	71907	WASHER, Dynamic counterweight	8

Page 1-6 - Figure 6  
Crankcase Attaching Parts

1	STD-1414	BOLT, 1/4-20 x 1-1/2 long, hex. hd.	8
	STD-8	WASHER, 1/4 plain	20

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SECTION 1 (CONT.)

Page 1-6 - Figure 6 (Cont.)  
Crankcase Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
2	STD-2084	BOLT, 1/4-20 x 1-3/4 long, hex. hd.	1
4	60803	STRAP, Lifting	1
5	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex. hd.	1
	STD-160	WASHER, 1/4 lock, internal teeth	13
	STD-1411	NUT, 1/4-20 plain	9
6	STD-1416	BOLT, 1/4-20 x 1-1/2 long, hex. hd., dr. end	3
	STD-8	WASHER, 1/4 plain (9 max.)	un
	STD-1409	NUT, 1/4-20 slotted shear	3
7	STD-33	WASHER, 3/8 plain	3
	AN960-616L	WASHER, 3/8 plain (thick) (3 max.)	un
8	STD-872	NUT, 3/8-24 slotted	1
	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.	1
	STD-33	WASHER, 3/8 plain	2
	STD-678	WASHER, 3/8 lock, internal teeth	2
	STD-596	NUT, 3/8-24 plain	2
12	76220	STUD, 1/2-20 x 10-11/16 long	4

Page 1-7 - Figure 7  
Starter Ring Gear Supports

1	LW-16471	SUPPORT ASSY., Starter ring gear, 12/14 pitch, 3.25:1 drive ratio	1
2	72566	GEAR, Starter ring	1

Page 1-8 - Figure 8  
Oil Level Gage Assemblies

	72059	GASKET, Oil level gage	1
1	LW-16580	TUBE ASSY., Oil level gage, 12-13/16 long	1
2	74065	RING, Oil level gage seal	1
3	LW-14795	GAGE ASSY., Oil level	1
6	72844	PLUG, Oil level gage	1
7	STD-366	PIN, 1/16 dia. x 7/16 long	1

SECTION 2

Page 2-2 - Figure 11  
Accessory Housing Assembly

1	73818	GASKET, Accessory housing	1
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SECTION 2 (CONT.)

Page 2-2 - Figure 11 (Cont.)  
Accessory Housing Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
2	77997	HOUSING ASSY., Accessory	1
3	31C-12	STUD, 5/16-18 x 1-1/2 long	4
4	31C-19	STUD, 5/16-18 x 2-3/8 long	4
6	25C-22	STUD, 1/4-20 x 2-3/4 long	4
9	31CD-17	STUD, 5/16-18 x 2-1/8 long, drilled	3
	1102	PLUG, 1/8-27 NPT, Allen	2
	76119	SHIELD, Accessory breather oil	1

Page 2-3 - Figure 12  
Oil Pump Assembly and Accessory Housing Attaching Parts

1	78528	BODY ASSY., Oil pump	1
4	STD-1339	PLUG, 1/16-27 NPT, Allen hd.	1
7	LW-13775	IMPELLER ASSY., Oil pump driven	1
6	60746	IMPELLER, Oil pump driving	1
5	61174	SHAFT, Oil pump drive	1
8	STD-35	WASHER, 5/16 plain	3
9	STD-1420	NUT, 5/16-18 slotted	3
10	LW-14260	SEAL, Tachometer drive, oil	1
11	STD-8	WASHER, 1/4 plain	12
12	STD-160	WASHER, 1/4 lock, internal teeth	12
13	STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.	10
14	STD-1414	BOLT, 1/4-20 x 1-1/2 long, hex. hd.	2

Page 2-4 - Figure 13  
Oil Cooler Bypass Valve

3	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 annular	1
4	62417	PLUG, Oil cooler bypass	1
7	69675	CONNECTOR, Accessory hsg. to oil cooler inlet hose	1
5	STD-784	PLUG, 3/8 pipe, Allen	2
6	71140	FITTING, Breather (assemble in accessory hsg.)	1
15	MS20823-8*	ELBOW, 1/2 flared tube, 3/8 pipe thd.	2
16	AN844-10D	ELBOW, Pipe thd. & 5/8 OD hose, 45° (assemble in accessory hsg.)	1

\* - Assemble one in upper oil cooler bypass with fitting end toward right; assemble one in lower oil cooler boss with fitting end toward right.



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SECTION 2 (CONT.)

Page 2-5 - Figure 14  
Oil Pressure Screen Housing and Oil Filter Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
11	LW-12795	GASKET, Oil filter adapter	2
	77852	OIL FILTER BASE ASSY.	1
	LW-13216	OIL FILTER, Long (spin-on type)	1
5	STD-8	WASHER, 1/4 plain	4
6	STD-160	WASHER, 1/4 lock, internal teeth	1
8	STD-1411	NUT, 1/4-20 plain	1
9	STD-1856	SCREW, 1/4-20 x 1.00 long, hex. hd., self-locking	3
10	75944	VALVE ASSY., Temp. control oil cooler bypass	1
13	25C-10	STUD, 1/4-20 x 1-1/4 long (assemble in accessory hsg. filter pad at lower left tapped hole. Driven height of stud .60 - .64)	1

Page 2-6 - Figure 15  
Vacuum Pump Drive

1	61183	GASKET, Accessory adapter	1
2	60430	COVER, Vacuum pump	1
4	STD-8	WASHER, 1/4 plain	4
5	STD-160	WASHER, 1/4 lock, internal teeth	4
6	STD-1411	NUT, 1/4-20 plain	4
7	61098	ADAPTER ASSY., Vacuum pump	1
8	STD-1774	PIN, 1/8 dia. x 1/4 long	1
9	STD-208	OIL SEAL, 7/8 ID x 1-1/2 OD x 5/16 wide	1
10	72970	GEAR ASSY., Vacuum pump driven	1
12	71596	WASHER, Accessory driven gear	1
13	8313	GASKET, Vacuum pump	1

Page 2-7 - Figure 16  
Propeller Governor Drives, Covers and Attaching Parts

77875	GEAR, Propeller governor driven	1
LW-14021	SHAFT, Propeller governor idler gear	1
77874	GEAR ASSY., Propeller governor idler	1
77872	BUSHING, Propeller governor idler gear	2
STD-19	DOWEL, 5/64 dia. x 7/32 long	1
STD-798	DOWEL, 3/32 dia. x 16/64 long	1
73249	WASHER, Thrust	un
73250	WASHER, Thrust	un
73251	WASHER, Thrust	un

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SECTION 2 (CONT.)

Page 2-7 - Figure 16 (Cont.)  
 Propeller Governor Drives, Covers and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
	73252	WASHER, Thrust	un
	AN565B1032H5	SET SCREW, No. 10-32 x 5/16 long	1
	70455	GASKET, 25/32 ID x 1-1/8 OD x 1/16 thick	1
	LW-13896	PLUG, 3/4-16 hex. hd.	1
13	69551	GASKET, Accessory drive adapter	1
14	72053	GASKET, Governor	1
15	69106	COVER, Governor drive adapter pad	1
16	72378	COVER, Governor drive	1
17	STD-35	WASHER, 5/16 plain	4
18	STD-475	WASHER, 5/16 lock, internal teeth	4
19	STD-1410	NUT, 5/16-18 plain	4
	STD-35	WASHER, 5/16 plain (Woodward Governor)	32
	STD-35	WASHER, 5/16 plain (AN Governor)	4
	STD-475	WASHER, 5/16 lock, internal teeth	4
	STD-1410	NUT, 5/16-18 plain	4

SECTION 3

Page 3-1 - Figure 19  
 Connecting Rod, Piston and Ring Assemblies

1	LW-11750	CONNECTING ROD ASSY.	4
2	LW-13923	BUSHING, Connecting rod, upper	4
3	75061	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod bolt	8
5	LW-13521	BEARING, Connecting rod bolt	8
6	75089	PISTON, Comp. ratio 8.50:1	4
7	LW-14078	PIN, Piston	4
8	60828	PLUG, Piston pin	8
9	74241	RING, Piston, compression	8
10	73857	RING, Piston, oil reg., expander type	4

Page 3-2 - Figure 20  
 Cylinder Assembly

1	LW-12427	CYLINDER AND HEAD ASSY.	4
2	72057	SEAT, Intake valve	4

## SECTION 3 (CONT.)

Page 3-2 - Figure 20 (Cont.)  
Cylinder Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
3	72058	SEAT, Exhaust valve	4
4	76943	GUIDE, Valve, intake	4
5	77160	GUIDE, Valve, exhaust	4
6	66796	INSERT, Spark plug, 18-1.5 MM	8
7	STD-1872	INSERT, 1/8-27 Heli-coil, taper pipe thd.	8
8	31C-12	STUD, 5/16-18 x 1-1/2 long	8
9	25C-9	STUD, 1/4-20 x 1-1/8 long	4
10	MS20823-6D	ELBOW, 45°, 3/8 flared tube	4
11	66610	BUSHING, Rocker shaft	16
12	73938	VALVE, Intake	4
13	74541	VALVE, Exhaust, rotator type	4
17	LW-11795	SPRING, Valve, inner	8
18	LW-11800	SPRING, Valve, outer	8
15	65441	SEAT, Valve spring, lower, intake	4
16	LW-13323	SEAT, Valve spring, lower, exhaust	4
20	LW-10077	SEAT, Valve spring, upper, intake	4
19	LW-10076	SEAT, Valve spring, upper, exhaust, rotator type	4
23	60009	KEY, Valve, intake	8
21	MS13997-3	KEY, Valve, exhaust, rotator type	8
14	MS13998-3	CAP, Valve stem, exhaust, rotator type	4
24	75906	GASKET, Rocker box cover	4
25	61247	COVER, Rocker box	4
26	STD-1925	SCREW, 1/4-20 x 5/8 long, pan. hd., self-locking	24
	1102	PLUG, 1/8-27 NPT (assemble in cylinder head)	4

Page 3-3 - Figure 21  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

1	62922	SEAL, Shroud tube	8
2	70310	SEAL, Shroud tube	8
3	LW-11485	TUBE, Push rod shroud	8
5	LW-14995	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
7	STD-1411	NUT, 1/4-20 plain	4
8	73434	ROD ASSY., Push - A total	un
	73435	ROD ASSY., Push - of 8	un
	73436	ROD ASSY., Push - push rods	un
	73437	ROD ASSY., Push - required	un
9	69444	ROCKER ASSY., Valve, intake	4
10	60398	BUSHING, Valve rocker, intake	4

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**Page 3-3 - Figure 21 (Cont.)  
Shroud Tubes, Push Rods and Valve Rocker Assemblies**

Ref. No.	Part No.	Description	Qty. Per Assy.
11	74636	ROCKER ASSY., Valve, exhaust	4
12	74637	BUSHING, Valve rocker, exhaust	4
13	LW-13790	SHAFT, Valve rocker	4
	LW-12892	THRUST BUTTON, Rocker shaft	8
14	71481	RING, Oil seal, 3/32 dia. x 4-27/32 ID	4
16	STD-2090	NUT, 1/2-20 plain	18
17	383-B	NUT, 3/8-24 plain	16
18	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 thick	2

**Page 3-4 - Figure 22  
Intercylinder Cooling Baffles**

1	75339	BAFFLE ASSY., Intercylinder	2
2	71611	RETAINER, Intercylinder baffle	2
3	71610	HOOK, Intercylinder baffle retainer	2

**Page 3-5 - Figure 23  
Cylinder Drain Tubes, Exhaust Flange and Gaskets**

1	65321	GASKET, Exhaust flange	4
3	STD-35	WASHER, 5/16 plain	8
4	STD-475	WASHER, 5/16 lock, internal teeth	8
5	STD-1410	NUT, 5/16-18 plain	8
6	STD-684	NIPPLE, Straight, 3/8 ID hose	4
7	STD-1821	HOSE, 3/8 ID x 2-1/2 long	4
8	LW-15592-5-05	CLAMP, Hose	8
9	68759	TUBE ASSY., Cyl. head oil drain, cyl. no. 1	1
10	68760	TUBE ASSY., Cyl. head oil drain, cyl. no. 2	1
11	68761	TUBE ASSY., Cyl. head oil drain, cyls. no. 3 & 4	2

**Page 3-7 - Figure 25  
Priming System**

1	1102	PLUG, 1/8-27 NPT, Allen (assemble in cylinder head)	4
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**SECTION 4**

**Page 4-1 - Figure 26  
Magnetos and Harness Assembly**

1	61665	GEAR, Magneto impulse coupling	2
	STD-761	COTTER PIN, 3/32 dia. x 1.00 long	2

## SECTION 4 (CONT.)

Page 4-1 - Figure 26 (Cont.)  
Magnetos and Harness Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
4	62224	GASKET, Magneto adapter and magneto	2
5	LW-12681	GASKET, Magneto	2
6	LW-12706	ADAPTER, Magneto, impulse coupling	2
7	LW-16650	MAGNETO AND HARNESS ASSY., Left (Slick magneto)	1
	LW-16651	MAGNETO AND HARNESS ASSY., Right (Slick magneto)	1
8	STD-1727	WASHER, Plain, 3/4 OD x 1 1/32 ID x 1/8 thick	4
9	STD-475	WASHER, 5/16 lock, internal teeth	4
10	STD-1410	NUT, 5/16-18 plain	4
11	76961	CLAMP, Magneto	4
	76734	ZIP STRAPS	8
	LW-14057	CLIP, 1 wire	2
	LW-14060	CLIP, 2 wire	3

Page 4-8 - Figure 33  
Spark Plugs

1	1182-D4	SPARK PLUG, Champion (RHM-38E)	8
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## SECTION 5

Page 5-5 - Figure 38  
Alternator Bracket, Link and Strut

1	76906	BRACKET, Alternator	1
	LW-13365	BRACE, Alternator bracket	1
5	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1
	STD-475	WASHER, 5/16 lock, internal teeth	1
6	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.	2
	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.	3
7	LW-10729	LINK, Alternator adjusting	1
8	STD-35	WASHER, 5/16 plain	1
9	STD-1858	BOLT, 5/16-18 x 29/32 long, hex. hd. dr.	1
12	76908	STRUT, Alternator support	1
13	STD-1858	BOLT, 5/16-18 x 29/32 long, hex. hd. dr.	1

Page 5-6 - Figure 39  
Starter Assemblies and Attaching Parts

	LW-15572	STARTER, 24V (12/14 pitch pinion) 3.38:1 ratio (MHB-4016)	1
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SECTION 5 (CONT.)

Page 5-6 - Figure 39 (Cont.)  
Starter Assemblies and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
	STD-35	WASHER, 5/16 plain	4
	STD-475	WASHER, 5/16 lock, internal teeth	4
	STD-2156	BOLT, 5/16-18 x 1-5/32 long, hex. hd.	1
	STD-1410	NUT, 5/16-18 plain	3

SECTION 6

Page 6-1 - Figure 40  
Fuel Pump and Attaching Parts

1	60096	GASKET, Fuel pump	1
4	LW-15472	FUEL PUMP, Low pressure dual diaphragm (6441271)	1
5	STD-33	WASHER, 3/8 plain	2
7	STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket hd., dr. hd.	2

Page 6-3 - Figure 42  
Fuel Pump Drives

1	74996	GEAR ASSY., Crankshaft idler, plain	1
2	77309	BUSHING, Crankshaft idler gear	1
3	61544	PLUNGER, Fuel pump, long	1
4	75072	GEAR ASSY., Crankshaft idler	1
	77309	BUSHING, Crankshaft idler gear	1

Page 6-5 - Figure 44  
Oil Sump Assembly

1	LW-13353	GASKET, Oil sump	1
2	LW-16154	SUMP ASSY., Oil	1
3	69602	CONNECTION, Intake pipe	4
4	61400	STUD, 1/4-20 x 1-3/16 long	4
	31C-14	STUD, 5/16-18 x 1-3/4 long	4
7	1102	PLUG, 1/2-14 NPT, Sq. hd. drilled	2
8	STD-551	PLUG, 1/2-14 NPT, Sq. hd. drilled	2
9	STD-8	WASHER, 1/4 plain	28

## SECTION 6 (CONT.)

Page 6-5 - Figure 44 (Cont.)  
Oil Sump Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
10	STD-160	WASHER, 1/4 lock, internal teeth	20
11	STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.	14
	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex. hd.	2
12	STD-1411	NUT, 1/4-20 plain	18
13	LW-16106	PIPE, Intake no. 1 & 2 cylinders	2
	LW-16107	PIPE, Intake no. 3 & 4 cylinders	2
14	69603	HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4 long	4
15	LW-15592-8-28	CLAMP, Hose	8
16	71973	GASKET, 2 bolt flange, 1-7/8 ID	4
17	LW-14555	FLANGE, Intake pipe, upper	4
18	STD-8	WASHER, 1/4 plain	8
19	STD-160	WASHER, 1/4 lock, internal teeth	8
20	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	8
	1102	PLUG, 1/8-27 NPT, Allen (assemble in fuel drain bosses in sump)	2
22	70484	SCREEN, Oil suction	1
23	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1
24	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.	1
	61548	NAMEPLATE	1
	STD-1901	DRIVE STUD, No. 4 x 3/16 long, rd. hd.	4

Page 6-6 - Figure 45  
Carburetor Assembly, Gaskets and Attaching Parts

1	77154	GASKET, Carburetor	1
2	LW-16518	CARBURETOR, Marvel-Schebler (HA-6) P/N 10-5253	1
4	STD-35	WASHER, 5/16 plain	4
5	STD-1410	NUT, 5/16-18 plain	4
6	STD-1763	LOCKNUT, 5/16 palnut	4
8	74070	ELBOW, 3/8 tubing, adjustable, 45° (assemble in fuel pump inlet)	1

## SUPPLEMENTAL PARTS LIST SSP1077

To Provide Parts Coverage for Avco Lycoming  
0-360-A1AD and 0-360-A3AD Model Aircraft Engines

This supplement offers a complete parts list for the 0-360-A1AD and 0-360-A3AD model engines. Parts are arranged herein in group assemblies similar to those in Parts Catalog PC-106. This allows use of the illustrations in PC-106 with this supplement. Each group assembly listed is headed by a page and illustration figure number corresponding to those in PC-106, followed by the parts list.

Use the Table of Contents in the original parts catalog PC-106 to find the page number and illustration of the desired parts (Example: Cylinder Assembly, Page 3-2). The corresponding page in this supplement (Cylinder Assembly, Page 3-2) lists the parts for the 0-360-A1AD and 0-360-A3AD models.

In cases where parts only apply to the 0-360-A1AD or 0-360-A3AD it is noted under the model usage column. If parts are common to both models the model usage column is left blank.



0-360-A1AD, -A3AD

SECTION 1

Page 1-1 - Figure 1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-12372	CRANKCASE ASSEMBLY	1	
6	75154	STUD, 1/2-13 x 10-1/32	2	
7	50-15	STUD, 1/2-20 x 1-7/8	8	
11	38-13	STUD, 3/8-16 x 1-5/8	16	
13	38D-17	STUD, 3/8-16 x 2-1/8 (drilled)	1	
15	61261	STUD, 5/16-18 x 1-1/2	2	
16	67528	STUD, 5/16-18 x 1-5/8	1	
2	STD-557	DOWEL, 1/2 dia. x 39/64	2	
	STD-514	DOWEL, 5/16 dia. x 1/2	2	
4	69796	DOWEL, crankshaft bearing	2	
	LW-10647	DOWEL, crankshaft bearing	4	
20	1102	PLUG, 1/8-27 NPT	5	
23	STD-1623	INSERT, 1/4-20 heli-coil x 3/8	2	
24	65007	RETAINER, shroud tube seal	8	

Page 1-2 - Figure 2  
Camshaft Assembly, Crankcase Related Parts

1	76097	CAMSHAFT	1	
2	76121	SHAFT ASSEMBLY, tachometer	1	
3	78638	PIN, 3/16 x 2-5/16	1	
4	76118	SPACER, tachometer centering	1	
5	MS16625-1081	RING, internal retaining	1	
6	LW-10284	GEAR, crankshaft	1	
7	LW-10332	LOCKPLATE, crankshaft gear	1	
8	AN8-14A	BOLT, 1/2-20 x 1-19/32	1	
9	LW-13792	SEAL, crankshaft oil	1	
10	75075	SEAL, oil 3/32 sect. x 15/32	2	
11	72091	SEAL, oil 23/64 ID x 7/64 sect.	2	
12	72877	BODY, hydraulic tappet	8	
13	78290	PLUNGER ASSY., hydraulic tappet	8	
14	78524	SOCKET, push rod hydraulic tappet	8	
15	LW-11021	BEARING, crankshaft	4	
16	LW-13884	BEARING, crankshaft - front	2	

Page 1-3 - Figure 3

1	1028-B	BALL, 11/16 dia.	1	
2	61084	SPRING, oil pressure relief valve	1	
3	STD-425	WASHER, no. 10 plain (max. 9)	AR	
4	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32	1	
5	76529	PLUG, oil relief valve	1	

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SECTION 1 (CONT.)

Page 1-4 - Figure 4  
Crankshaft Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-12593	CRANKSHAFT ASSEMBLY	1	A1AD
2	STD-1211	PLUG, 2.00 dia. expansion	1	A1AD
4	STD-2078	DOWEL, 3/8 OD x 1/2 long	1	A1AD
12	61510	PLUG, 1-3/4 OD	1	A1AD
5	72060	BUSHING, propeller flange - indexing	1	A1AD
8	72061	BUSHING, propeller flange - short	1	A1AD
11	72062	BUSHING, propeller flange - long	4	A1AD
1	LW-14412	CRANKSHAFT ASSEMBLY	1	A3AD
2	STD-1211	PLUG, 2.00 dia. expansion	1	A3AD
4	STD-2078	DOWEL, 3/8 OD x 1/2 long	1	A3AD
	74248	BUSHING, propeller flange indexing - long	1	A3AD
	74249	BUSHING, propeller flange - long	5	A3AD

Page 1-6 - Figure 6

1	STD-1414	BOLT, 1/4-20 x 1-1/2	8	
	STD-8	WASHER, 1/4 plain	19	
4	60803	STRAP, lifting	1	
2	STD-2084	BOLT, 1/4-20 x 1-3/4	1	
5	STD-1419	BOLT, 1/4-20 x 1-1/8	3	
	STD-160	WASHER, 1/4 lock	12	
	STD-1411	NUT, 1/4-20 plain	9	
6	STD-1416	BOLT, 1/4-20 x 1-1/2 (drilled end)	3	
	STD-8	WASHER, 1/4 plain	9 max.	
	STD-1409	NUT, 1/4-20 slotted shear	3	
7	STD-33	WASHER, 3/8 plain	3	
	AN960-616L	WASHER, 3/8 plain (thick) (3 max)	1	
8	STD-872	NUT, 3/8-24 slotted	1	
9	AN6-34A	BOLT, 3/8-24 x 3-19/32	2	
	STD-33	WASHER, 3/8 plain	2	
	STD-678	WASHER, 3/8 lock	2	
	STD-596	NUT, 3/8-24 plain	2	
12	76220	STUD, 1/2-20 x 10-45/64	4	

Page 1-7 - Figure 7  
Starter Ring Gear Support

1	77579	SUPPORT ASSEMBLY, starter ring gear 12/14 pitch	1	
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SECTION 1 (CONT.0

Page 1-7 - Figure 7 (Cont.)  
Starter Ring Gear Support

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
2	72566	GEAR, starter ring	1	

Page 1-8 - Figure 8  
Oil Level Gage Assemblies

1	75736	TUBE, oil level gage - long	1	
	72059	GASKET, oil level gage	1	
2	74068	RING, oil level gage seal	1	
3	LW-14758	GAGE ASSY., oil level	1	

Page 1-9 - Figure 9

10	LW-12920	TUBE ASSY., prop. governor oil line	1	A1AD
11	STD-1930	HOSE, 3/8 ID x 1.00 long	1	A1AD
12	75165	CLIP, prop. governor oil line support	1	A1AD
13	STD-35	WASHER, 5/16 plain	1	A1AD
14	STD-475	WASHER, 5/16 lock	1	A1AD
15	STD-1838	BOLT, 5/16-18 x 15/16	1	A1AD
	71621	CLIP, 3/8 ID for 1/4 dia. screw cushion type	1	A1AD
	STD-700	ELBOW, 3/8 flared tube 1/4 NPT 90°	1	A1AD
	74070	ELBOW, 3/8 flared tube 9/16-18 st. thd. adj. 90°	1	A1AD
	AN814-6L	PLUG, governor oil line	1	A3AD
	MS29512-6	SEAL, oil 25/32 sect. x 15/32 ID	1	A3AD
	STD-783	PLUG, 1/4-18 NPT	1	A3AD

SECTION 2

Page 2-2 - Figure 11  
Accessory Housing Assembly

1	73818	GASKET ACCESSORY HOUSING	1	
2	LW-10885	HOUSING ASSEMBLY, Accessory	1	
	25C-12	STUD, 1/4-20 x 1/2	4	
	67528	STUD, 5/16-18 x 1-5/8	2	
	31C-17	STUD, 5/16-18 x 2-1/8	4	
LW	LW-12589	INSERT, heli-coil 5/8-18 x 3/8	1	
	MS124703	INSERT, heli-coil 3/4-16 x 1-1/8	1	
	LW-10341	INSERT, heli-coil 1.00-14 x 3/8	1	
14	1102	PLUG, 1/8-27 NPT	1	

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SECTION 2 (CONT.)

Page 2-3 - Figure 12  
Oil Pump Assembly and Accessory Housing Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-10342	BODY, oil pump	1	
7	LW-13775	IMPELLER ASSY., oil pump driven	1	
5	LW-14040	GEAR ASSY., oil pump drive	1	
6	60746	IMPELLER, oil pump driving	1	
8	STD-35	WASHER, 5/16 plain	3	
	STD-2150	BOLT, 5/16-18 x 1-3/4 (drilled head)	3	
10	LW-14260	SEAL, tachometer drive - oil	1	
11	STD-8	WASHER, 1/4 plain	12	
12	STD-160	WASHER, 1/4 lock	12	
13	STD-1204	BOLT, 1/4-20 x 15/16	9	
	STD-1215	BOLT, 1/4-20 x 1-1/4	1	
	STD-1875	BOLT, 1/4-20 x 13/16	2	

Page 2-4 - Figure 13  
Oil Cooler Bypass Valve

72413	FITTING, breather 120° elbow	1
MS29512-10	SEAL, oil 3/32 sect. x 11/16 ID	1
AN814-10L	PLUG, turbo drain back	1
STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32	2
1540	PLUG, thermometer well	2
MS29512-10	SEAL, oil 3/32 x 11/16 ID	2
LW-14828	REDUCER, 1/2 to 5/8 tube	2

Page 2-5 - Figure 15  
Oil Filter Assembly

LW-10321	SPRING, oil filter bypass valve	1
76539	SEAT, oil relief	1
LW-10320	SLEEVE, oil filter bypass valve	1
MS16625-1100	RING, internal retaining	1
LW-10660	OIL FILTER ASSEMBLY	1
75944	VALVE ASSEMBLY, temperature control oil cooler bypass valve	1

Page 2-6 - Figure 15  
Vacuum Pump Drive

10	LW-10305	GEAR ASSEMBLY, Accessory driven	1
12	71596	WASHER, Accessory driven gear	1
9	STD-208	SEAL, oil - 7/8 ID x 1-1/2 OD x 5/16	1

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SECTION 2 (CONT.)

Page 2-6 - Figure 15 (Cont.)  
Vacuum Pump Drive

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	8313	GASKET, vacuum pump	1	
2	60430	COVER, vacuum pump	1	
4	STD-8	WASHER, 1/4 plain	4	
5	STD-160	WASHER, 1/4 lock	4	
6	STD-1411	NUT, 1/4-20 plain	4	

Page 2-7 - Figure 16  
Propeller Governor Drives, Covers and Attachnng Parts

1	LW-12914	GEAR ASSEMBLY, Accessory driven	1	
2	71596	WASHER, Accessory Driven gear	1	
14	72053	GASKET, governor	2	
	LW-12347	PLATE, propeller governor pad	1	
16	72378	COVER, governor drive	1	
17	STD-35	WASHER, 5/16 plain	AR	
18	STD-475	WASHER, 5/16 lock	4	
19	STD-1410	NUT, 5/16-18 plain	4	

SECTION 3

Page 3-1 - Figure 19  
Connecting Rod, Piston and Ring Assemblies

1	LW-11750	CONNECTING ROD ASSEMBLY	4	
2	LW-13923	BUSHING, connecting rod - upper	4	
3	75061	BOLT, connecting rod	8	
4	LW-12186	NUT, connecting rod	8	
5	LW-13521	BEARING, connecting rod	8	
6	75089	PISTON, Comp. ratio 8.50:1	4	
7	LW-14078	PIN, piston	4	
8	60828	PLUG, piston pin	8	
9	74241	RING, piston - compression	8	
10	73857	RING, piston - oil regulating	4	

Page 3-2 - Figure 20  
Cylinder Assembly

LW-12427	CYLINDER and HEAD ASSEMBLY, Nitrided	4	
72057	SEAT, intake valve	4	
72058	SEAT, exhaust valve	4	
76943	GUIDE, valve intake	4	
77160	GUIDE, valve exhaust	4	

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SECTION 3 (CONT.)

Page 3-2 - Figure 20 (Cont.)  
Cylinder Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	66796	INSERT, spark plug 18-1.5 mm	8	
	STD-1872	INSERT, 1/8-27 NPT heli-coil	8	
	61261	STUD, 5/16-18 x 1-1/2	8	
	68510	STUD, 1/4-20 x 1-1/16	4	
	MS20823-6D	ELBOW, 45°-3/8 flared tube	4	
	66610	BUSHING, rocker shaft	16	
	73938	VALVE, intake	4	
	74541	VALVE, exhaust (rotator)	4	
	LW-11795	SPRING, valve inner	8	
	LW-11800	SPRING, valve outer	8	
	65441	SEAT, valve spring lower intake	4	
	LW-13323	SEAT, valve spring lower exhaust	4	
	LW-10077	SEAT, valve spring upper intake	4	
	LW-10076	SEAT, valve spring upper exhaust	4	
	60009	KEY, valve intake	8	
	MS13997-3	KEY, valve exhaust (rotator)	8	
	MS13998-3	CAP, valve stem - exhaust (rotator)	4	
	75906	GASKET, rocker box cover	4	
	61247	COVER, rocker box	4	
	STD-1925	SCREW, 1/4-20 x 5/8 self-locking	24	

Page 3-3 - Figure 21

Shroud Tubes, Push Rods and Valve Rocker Assemblies

1	62922	SEAL, Shroud tube	8	
2	70310	SEAL, Shroud tube	8	
3	LW-11485	TUBE, push rod shroud	8	
5	LW-13428	SPRING, shroud tube	4	
6	LW-12272	LOCKPLATE, shroud tube	4	
7	STD-1411	NUT, 1/4-20 plain	4	
8	73434	ROD ASSY., push	AR	
	73435	ROD ASSY., push	AR	
	73436	ROD ASSY., push	AR	
9	69444	ROCKER ASSY., valve intake	4	
10	60398	BUSHING, rocker intake (valve)	4	
11	74636	ROCKER ASSY., valve exhaust	4	
12	74637	BUSHING, valve rocker exhaust	4	
13	LW-13790	SHAFT, valve rocker	4	
	LW-12892	THRUST BUTTON, rocker shaft	8	
14	71481	RING, oil seal 3/32 x 4-27/32 ID	4	
	74887	SPACER, 17/32 ID x 7/8 OD x 3/8 thick	2	
17	383-B	NUT, 3/8-24 plain	16	
16	STD-2090	NUT, 1/2-20 plain	18	

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SECTION 3 (CONT.)

Page 3-4 - Figure 22  
Intercylinder Cooling Baffles

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
4	75339	BAFFLE ASSEMBLY, intercylinder	2	
	71611	RETAINER, intercylinder baffle	2	
	71610	HOOK, intercylinder baffle	2	

Page 3-5 - Figure 33  
Cylinder Drain Tubes, Exhaust Flange and Gaskets

1	65321	GASKET, exhaust flange	4	
	61260	FLANGE, exhaust - stainless	4	
3	STD-35	WASHER, 5/16 plain	8	
4	STD-475	WASHER, 5/16 lock	8	
5	STD-1410	NUT, 5/16-18 plain	8	
6	STD-684	NIPPLE, straight 3/8 ID hose	4	
7	STD-1821	HOSE, 3/8 ID x 2-1/2 long	4	
8	LW-15592-5-05	CLAMP, hose 5/8 dia.	8	
9	68759	TUBE ASSY., cyl. head oil drain Cyl. no. 1	1	
10	68760	TUBE ASSY., Cyl. head oil drain Cyl. no. 2	1	
11	68761	TUBE ASSY., Cyl. head oil drain Cyl. nos. 3 and 4	2	

Page 3-7 - Figure 25  
Priming System

1	1102	PLUG, 1/8-27 NPT (install in cyl. head)	8	
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SECTION 4

Page 4-1 - Figure 26  
Magneto, Magneto Drives and Magneto Kits

LW-13643	GEAR RETAINER, magneto drive	1	
LW-13641	CUSHION, magneto drive	2	
LW-12681	GASKET, magneto	1	
LW-385124-106	MAGNETO, ignition system impulse D4LN-2021	1	
LW-382555-11	MAGNETO, ignition	1	
LW-384400-303	HARNESS, ignition 3/4-20	1	
75965	CLAMP, magneto	2	
STD-475	WASHER, 5/16 lock	2	
STD-1410	NUT, 5/16-18 plain	2	

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SECTION 4 (CONT.)

Page 4-1 - Figure 26 (Cont.)  
 Magneto, Magneto Drives and Magneto Kits

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	76734	ZIP STRAP	15	
	STD-692	SCREW, 10-32	2	
	STD-670	NUT, self-locking	2	
	LW-14875	BRACKET, extension	1	
	MS21919-G12	CLIP, 3/4 dia. for #10 screw	1	
	LW-14057	CLIP, 1 wire for 1/4 screw (top leads)	2	
	LW-320297-2	CLIP, 1 wire for 1/4 screw (bottom leads)	3	
	LW-320298-2	CLIP, 2 wire for 1/4 screw (bottom leads)	2	
	LW-320298-1	CLIP, 2 wire for 10-32 screw (baffle)	1	
	LW-320432-1	CLIP, 6 wire for 1/4 screw (Acc. Hsg.)	1	
	LW-320300-1	CLIP, 4 wire for 10-32 (1 at C case spht., 1 at shroud tube)	2	
	STD-1874	SCREW, 1/4-20 x 7/8	5	
	STD-8	WASHER, 1/4 plain	10	
	LW-382698	KIT, magneto ground terminal	2	

Page 4-8 - Figure 33  
 Spark Plugs

1	1182-D4	SPARK PLUG, (Champion RHM-38E)	8	
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SECTION 5

Page 5-5 - Figure 38  
 Alternator Bracket

1	LW-14324	ALTERNATOR, 24 volt - 70 amp (ALU-8421)	1	A1AD
	LW-14316	ALTERNATOR, 12 volt - 70 amp (ALX-8421)	1	A3AD
	LW-13039	BRACKET, alternator	1	
	73383	LOCKPLATE, 5/16 bolt x 1.00 spring	1	
	STD-1838	BOLT, 5/16-18 x 15/16	2	
	75380	LINK, alternator adjusting	1	
	STD-35	WASHER, 5/16 plain	1	
	STD-1817	BOLT, 5/16-18 x 3/4 drilled head	1	
	STD-1727	WASHER, 3/4 OD x 5/16 ID x 1/8 thick	1	



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SECTION 5 (CONT.)

Page 5-5 - Figure 38  
Alternator Bracket

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	STD-1817	BOLT, 5/16-18 x 3/4 drilled head	1	
	74323	STRUT, alternator support	1	
	STD-1817	BOLT, 5/16-18 x 3/4 drilled head	1	
	STD-690	WASHER, 13/16 OD x 3/8 ID x 1/16 thick	1	
	AN6-14	BOLT, 3/8-24 x 1-9/16 drilled end	1	
	STD-690	WASHER, 13/16 OD x 3/8 ID x 1/16 thick	AR	
	STD-872	NUT, 3/8-24 slotted	1	
	STD-713	PIN, cotter 3/32 dia. x 3/4 long	1	
	AN6-16	BOLT, 3/8-24 x 1-13/16 drilled end	1	
	76534	SHIM, 1-1/8 OD x 13/32 ID x .005	AR	
	STD-690	WASHER, 13/16 OD x 3/8 ID x 1/16 thick	AR	
	STD-872	NUT, 3/8-24 slotted	1	
	STD-713	PIN, cotter 3/32 dia. x 3/4 long	1	
	76026	BELT, alternator drive (3/8 wide)	1	
	LW-10179	REGULATOR, 24 volt (VSF-7403)	1	A1AD
	78060	OVERVOLTAGE RELAY, 24 volt (X-17620)	1	A1AD
	LW-10185	REGULATOR, 12 volt (VSF-7203)	1	A3AD
	78059	OVERVOLTAGE RELAY, 12 volt (X-17621)	1	A3AD

Page 5-6 - Figure 39  
Starter Assemblies and Attaching Parts

	LW-15572	STARTER, 24 volt, 3.38:1 red. 12/14 pitch	1	A1AD
	LW-15571	STARTER, 12 volt, 3.38:1 red. 12/14 pitch	1	A3AD
	STD-35	WASHER, 5/16 plain	4	
	STD-475	WASHER, 5/16 lock	4	
	STD-2156	BOLT, 5/16-18 x 1-1/8	1	
	STD-1410	NUT, 5/16-18 plain	3	
	LW-12085	SWITCH, magnetic (SAZ-4401C-1)	1	A1AD
	LW-12083	SWITCH, magnetic (SAZ-4201E-1)	1	A3AD

SECTION 6

Page 6-1 - Figure 40  
Fuel Pump

1	60096	GASKET, fuel pump	1	
4	75246	FUEL PUMP, low pressure (6440295)	1	

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SECTION 6 (CONT.)

Page 6-1 - Figure 40 (Cont.)  
Fuel Pump

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
5	STD-33	WASHER, 3/8 plain	2	
7	STD-1882	SCREW, 3/8-16 x 1-1/4 socket hd.	2	

Page 6-3 - Figure 42  
Crankshaft Idler Gears and Fuel Pump Drives

61544		PLUNGER, fuel pump - long	1	
LW-12911		GEAR ASSY., crankshaft idler	1	
LW-10286		GEAR ASSY., crankshaft idler	1	

Page 6-5 - Figure 44  
Oil Sump Assembly

LW-13353		GASKET, oil sump	1	
78915		SUMP ASSEMBLY, oil	1	
78914		CONNECTION, intake pipe	4	
61400		STUD, 1/4-20 x 1-3/16	4	
68437		STUD, 5/16-18 x 1-7/8	4	
STD-91		PLUG, 1/2-14 NPT allen hd.	1	
STD-551		PLUG, 1/2-14 sq. hd. drilled	2	
STD-8		WASHER, 1/4 plain	28	
STD-160		WASHER, 1/4 lock	20	
STD-1204		BOLT, 1/4-20 x 15/16	14	
STD-1419		BOLT, 1/4-20 x 1-1/8	2	
STD-1411		NUT, 1/4-20 plain	12	
70484		SCREEN, oil suction	1	
STD-111		GASKET, 1.00 OD x 1-1/4 OD x 3/32 annular	1	
LW-12545		PLUG, 5/8 hex hd. x 1.00-20 thread	1	
70485		PIPE, intake	4	
69603		HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4 long	4	
STD-1269		CLAMP, hose 1-7/8 to 2-1/4 ID x 9/16 wide	8	
71973		GASKET, 2 bolt flange 1-7/8 ID	4	
73346		FLANGE, intake pipe upper	4	
STD-8		WASHER, 1/4 plain	8	
STD-160		WASHER, 1/4 lock	8	
STD-1215		BOLT, 1/4-20 x 1-1/4	8	
61548		NAMEPLATE	1	
STD-1901		DRIVE STUD, No. 4 x 3/16	4	

0-360-A1AD, -A3AD

SECTION 6 (CONT.)

Page 6-6 - Figure 45  
Carburetor, Gasket and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	66224	GASKET, carburetor	1	
	71098	CARBURETOR, (10-3878)	1	
	STD-35	WASHER, 5/16 plain	4	
	STD-1410	NUT, 5/16-18 plain	4	
	STD-1763	PALNUT, 5/16	4	

## SUPPLEMENTAL PARTS LIST SSP177

To Provide Parts Coverage for Avco Lycoming  
O-360-A1G6D and LO-360-A1G6D Model Aircraft Engines

This supplement offers a complete parts list for the O-360-A1G6D and LO-360-A1G6D model engines. Parts are arranged herein in group assemblies similar to those in Parts Catalog PC-106. This allows use of the illustrations in PC-106 with this supplement. Each group assembly listed is headed by a page and illustration figure number corresponding to those in PC-106, followed by the parts list.

Use the Table of Contents in the original parts catalog PC-106 to find the page number and illustration of the desired parts (Example: Cylinder Assembly, Page 3-2). The corresponding page in this supplement (Cylinder Assembly, Page 3-2) lists the parts for the O-360-A1G6D and LO-360-A1G6D models.

In cases where parts only apply to the O-360-A1G6D or LO-360-A1G6D it is noted under the model usage column. If parts are common to both models the model usage column is left blank.

O-360-A1G6D, LO-360-A1G6D

SECTION 1

Page 1-1 - Figure 1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-12372	CRANKCASE ASSEMBLY	1	O-360
	LW-15542	CRANKCASE ASSEMBLY	1	LO-360
6	75154	STUD, 1/2-13 x 10-1/32	2	
7	50-15	STUD, 1/2-20 x 1-7/8	8	
11	38-13	STUD, 3/8-16 x 1-5/8	16	
13	38D-17	STUD, 3/8-16 x 2-1/8	1	
15	31C-12	STUD, 5/16-18 x 1-1/2	2	
16	31C-13	STUD, 5/16-18 x 1-5/8	1	
2	STD-557	DOWEL, 1/2 dia. x 39/64	2	
	STD-514	DOWEL, 5/16 x 1/2	2	
4	69796	DOWEL, Crankshaft bearing	2	
	LW-10647	DOWEL, Crankshaft bearing	4	
20	1102	PLUG, 1/8-27 NPT	5	
23	STD-1623	INSERT, 1/4-20 heli-coil x 3/8	2	
24	65007	RETAINER, Shroud tube seal	8	

Page 1-2 - Figure 2  
Camshaft Assembly, Crankcase Related Parts

1	76097	CAMSHAFT	1	O-360
	LW-12050	CAMSHAFT	1	LO-360
2	76121	SHAFT ASSY., Tachometer	1	
3	78368	PIN, 3/16 x 2-5/16	1	
4	76118	SPACER, Tachometer centering	1	
5	MS16625-1081	RING, Internal retaining	1	
6	LW-10284	GEAR, Crankshaft	1	
7	LW-10332	LOCKPLATE, Crankshaft gear	1	
8	AN8-14A	BOLT, 1/2-20 x 1-19/32	1	
9	LW-13792	SEAL, Crankshaft oil	1	
10	72075	SEAL, Oil 3/32 sect. x 15/32	2	
11	72091	RING, Oil seal 23/64 ID x 7/64 sect.	2	
12	72877	BODY, Hydraulic tappet	8	
13	78290	PLUNGER ASSY., Hydraulic tappet	8	
14	78524	SOCKET, Push rod, hydraulic tappet	8	
15	LW-11020	BEARING, Crankshaft	4	
16	LW-13884	BEARING, Crankshaft, front	2	

Page 1-3 - Figure 3  
Oil Pressure Relief Valve

1	1028-B	BALL, 11/16 dia.	1	
2	68668	SPRING, Oil pressure relief valve	-	Select for
	77467	SPRING, Oil pressure relief valve	-	desired oil
	61084	SPRING, Oil pressure relief valve	-	pressure.

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SECTION 1 (CONT.)

Page 1-3 - Figure 3 (Cont.)  
Oil Pressure Relief Valve

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
3	STD-425	WASHER, No.10 plain	AR	(Max.9)
4	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32	1	
5	76529	PLUG, Oil relief valve	1	

Page 1-4 - Figure 4  
Crankshaft Assembly

1	LW-12380	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1	O-360
	LW-15541	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1	LO-360
	LW-12379	CRANKSHAFT ASSY.	1	O-360
	LW-15540	CRANKSHAFT ASSY.	1	LO-360
2	STD-1211	PLUG, 2.00 dia. expansion	1	
4	STD-2078	DOWEL, 3/8 OD x 1/2	1	
12	61510	PLUG, 1-3/4 OD	1	
5	72060	BUSHING, Prop. flange indexing	1	
8	72061	BUSHING, Prop. flange short	1	
11	72062	BUSHING, Prop. flange long	4	
13	73810	BUSHING, Crankshaft dynamic counterweight	4	
14	72801	COUNTERWEIGHT ASSY.	2	
15	71903	BUSHING, Dynamic counterweight	8	
16	LW-10977	ROLLER, Dynamic counterweight	2	
17	LW-10945	ROLLER, Dynamic counterweight	2	
18	LW-14820	RING, Internal retaining	8	
19	71907	WASHER, Dynamic counterweight	8	

Page 1-6 - Figure 6  
Crankcase Attaching Parts

1	STD-1414	BOLT, 1/4-20 x 1-1/2	8	
	STD-8	WASHER, 1/4 plain	19	
4	60803	STRAP, Lifting	1	
2	STD-2084	BOLT, 1/4-20 x 1-3/4	1	
5	STD-1419	BOLT, 1/4-20 x 1-1/8	3	
	STD-160	WASHER, 1/4 lock	12	
	STD-1411	NUT, 1/4-20 plain	9	
6	STD-1416	BOLT, 1/4-20 x 1-1/2 (drilled end)	3	
	STD-8	WASHER, 1/4 plain	9	Max.
	STD-1409	NUT, 1/4-20 slotted shear	3	
7	STD-33	WASHER, 3/8 plain	3	
	AN960-616L	WASHER, 3/8 plain (thick)	1	
8	STD-872	NUT, 3/8-24 slotted	1	

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SECTION 1 (CONT.)

Page 1-6 - Figure 6 (Cont.)  
Crankcase Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
9	AN6-34A	BOLT, 3/8-24 x 3-19/32	2	
	STD-33	WASHER, 3/8 plain	2	
	STD-678	WASHER, 3/8 lock	2	
	STD-596	NUT, 3/8 plain	2	
12	76220	STUD, 1/2-20 x 10-45/64	4	

Page 1-7 - Figure 7  
Starter Ring Gear Supports

1	77579	SUPPORT ASSY., Starter ring gear 12/14 pitch	1	O-360
	LW-11519	SUPPORT ASSY., Starter ring gear 12/14 pitch	1	LO-360
2	72566	GEAR, Starter ring	1	O-360
	LW-10551	GEAR, Starter ring	1	LO-360

Page 1-8 - Figure 8  
Oil Level Gage Assemblies

1	75767	TUBE, Oil level gage, intermediate	1	
	72059	GASKET, Oil level gage	1	
2	74065	RING, Oil level gage seal	1	
3	LW-14780	GAGE ASSY., Oil level	1	

Page 1-9 - Figure 9  
Propeller Governor Oil Tube Assemblies

10	LW-12920	TUBE ASSY., Prop. governor oil line	1	
11	STD-1930	HOSE, 3/8 ID x 1.00 long	1	
12	75165	CLIP, Prop. gov. oil line support	1	
13	STD-35	WASHER, 5/16 plain	1	
14	STD-475	WASHER, 5/16 lock	1	
15	STD-1838	BOLT, 5/16-18 x 15/16	1	
	71621	CLIP, 3/8 ID for 1/4 dia. screw cushion type	1	
	STD-700	ELBOW, 3/8 flared tube 1/4 NPT 90°	1	
	74070	ELBOW, 3/8 flared tube 9/16-18 st. thd. adj. 90°	1	

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## SECTION 2

Page 2-2 - Figure 11  
Accessory Housing Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	73818	GASKET, Accessory housing	1	
2	LW-10886	HOUSING ASSY., Accessory	1	O-360
	LW-10894	HOUSING ASSY., Accessory	1	LO-360
	25C-12	STUD, 1/4-20 x 1-1/2	4	
10	75888	STUD, 1/4-20 x 1-1/4	6	
	31C-13	STUD, 5/16-18 x 1-5/8	2	
	31C-17	STUD, 5/16-18 x 2-1/8	4	
	LW-12589	INSERT, Heli-coil 5/8-18 x 3/8	1	
	MS124703	INSERT, Heli-coil 3/4-16 x 1-1/8	1	
	LW-10341	INSERT, Heli-coil 1.00-14 x 3/8	1	
14	1102	PLUG, 1/8-27 NPT	1	

## Page 2-3 - Figure 12

## Oil Pump Assembly and Accessory Housing Attaching Parts

1	LW-10342	BODY, Oil pump	1	O-360
	LW-11245	BODY, Oil pump	1	LO-360
	STD-1768	PLUG, 43/64 dia. x 9/32	1	LO-360
7	78532	IMPELLER ASSY., Oil pump driven	1	
5	LW-14040	GEAR ASSY., Oil pump drive	1	
6	LW-14712	IMPELLER, Oil pump driving	1	
8	STD-35	WASHER, 5/16 plain	3	
	STD-2150	BOLT, 5/16-18 x 1-3/4	3	O-360
	STD-2150	BOLT, 5/16-18 x 1-3/4	1	LO-360
	STD-2151	BOLT, 5/16-18 x 2-1/4	2	LO-360
10	LW-14260	SEAL, Tachometer drive	1	
11	STD-8	WASHER, 1/4 plain	12	
12	STD-160	WASHER, 1/4 lock	12	
13	STD-1204	BOLT, 1/4-20 x 15/16	9	
	STD-1215	BOLT, 1/4-20 x 1-1/4	1	
	STD-1875	BOLT, 1/4-20 x 13/16	2	

## Page 2-4 - Figure 13

## Oil Cooler Bypass Valve

	72413	FITTING, Breather, 120° elbow	1	
	MS29512-10	SEAL, Oil 3/32 sect. x 45/64 ID	1	
	AN814-10L	PLUG, Turbo drain back	1	
	STD-294	GASKET, 7/8 OD x 5/8 ID x 3/32 annular	2	
	1540	PLUG, Thermometer well	2	



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SECTION 2 (CONT.)

Page 2-5 - Figure 15  
Oil Filter Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	LW-10321	SPRING, Oil filter bypass valve	1	
	76539	SEAT, Oil relief valve	1	
	LW-10320	SLEEVE, Oil filter bypass valve	1	
	MS16625-1100	RING, Internal retaining	1	
	LW-13906	FILTER ASSY., Oil, short	1	
	LW-13904	KIT, Converter plate, oil filter	1	
	75944	VALVE ASSY., Temp. control oil cooler bypass	1	

Page 2-6 - Figure 15  
Vacuum Pump Drive

1	8313	GASKET, Vacuum pump	1	
2	60430	COVER, Vacuum pump	1	
4	STD-8	WASHER, 1/4 plain	4	
5	STD-160	WASHER, 1/4 lock	4	
6	STD-1411	NUT, 1/4-20 plain	4	
10	LW-10305	GEAR ASSY., Accessory driven	1	
12	71596	WASHER, Accessory driven gear	1	
9	STD-208	SEAL, Oil, 7/8 ID x 1-1/2 OD x 5/16 wide	1	

Page 2-7 - Figure 16  
Propeller Governor Drives, Covers and Attaching Parts

1	LW-12914	GEAR ASSY., Accessory driven	1	
2	71596	WASHER, Accessory driven gear	1	
14	72053	GASKET, Governor	2	
	LW-12347	PLATE, Propeller governor	1	
16	72378	COVER, Governor drive	1	
17	STD-35	WASHER, 5/16 plain	AR	
18	STD-475	WASHER, 5/16 lock	4	
19	STD-1410	NUT, 5/16-18 plain	4	

SECTION 3

Page 3-1 - Figure 19  
Connecting Rod, Piston and Ring Assemblies

1	LW-11750	CONNECTING ROD ASSEMBLY	4	
2	LW-13923	BUSHING, Connecting rod upper	4	
3	75061	BOLT, Connecting rod	8	

## O-360-A1G6D, LO-360-A1G6D

## SECTION 3 (CONT.)

Page 3-1 - Figure 19 (Cont.)  
Connecting Rod, Piston and Ring Assemblies

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
4	LW-12186	NUT, Connecting rod	8	
5	LW-13522	BEARING, Connecting rod	8	
6	75089	PISTON, Comp. ratio 8.5:1	4	
7	LW-14078	PIN, Piston	4	
8	60828	PLUG, Piston pin	8	
9	74241	RING, Piston compression	8	
10	73857	RING, Oil regulating expander type	4	

Page 3-2 - Figure 20  
Cylinder Assembly

LW-12427	CYLINDER AND HEAD ASSY., Nitrided	4	
72057	SEAT, Intake valve	4	
72058	SEAT, Exhaust valve	4	
76943	GUIDE, Valve intake	4	
77160	GUIDE, Valve exhaust	4	
66796	INSERT, Spark plug, 18-1.5MM	8	
STD-1872	INSERT, 1/8-27 NPT heli-coil	8	
61261	STUD, 5/16-18 x 1-1/2	8	
68510	STUD, 1/4-20 x 1-1/16	4	
MS20823-6D	ELBOW, 45°-3/8 flare tube	4	
66610	BUSHING, Rocker shaft	16	
73938	VALVE, Intake	4	
74541	VALVE, Exhaust (rotator)	4	
LW-11795	SPRING, Valve, inner	8	
LW-11800	SPRING, Valve, outer	8	
65441	SEAT, Valve spring lower intake	4	
LW-13323	SEAT, Valve spring lower exhaust	4	
LW-10077	SEAT, Valve spring upper intake	4	
LW-10076	SEAT, Valve spring upper exhaust	4	
60009	KEY, Valve, intake	8	
MS13997-3	KEY, Valve, exhaust (rotator)	8	
MS13998-3	CAP, Valve stem, exhaust (rotator)	4	
75906	GASKET, Rocker box cover	4	
61247	COVER, Rocker box	4	
STD-1925	SCREW, 1/4-20 x 5/8 pan hd. self-locking	24	

Page 3-3 - Figure 21  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

1	62922	SEAL, Shroud tube	8	
2	70310	SEAL, Shroud tube	8	
3	LW-11485	TUBE, Push rod shroud	8	

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SECTION 3 (CONT.)

Page 3-3 - Figure 21 (Cont.)  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
5	LW-13428	SPRING, Shroud tube	4	
6	LW-12272	LOCKPLATE, Shroud tube	4	
7	STD-1411	NUT, 1/4-20 plain	4	
8	73434	ROD ASSY., Push	AR	
	73435	ROD ASSY., Push	AR	
	73436	ROD ASSY., Push	AR	
9	69444	ROCKER ASSY., Valve intake	4	
10	60398	BUSHING, Valve rocker intake	4	
11	74636	ROCKER ASSY., Valve exhaust	4	
12	74637	BUSHING, Valve rocker exhaust	4	
13	LW-13790	SHAFT, Valve rocker	4	
	LW-12892	THRUST BUTTON, Rocker shaft	8	
14	71481	RING, Oil seal 3/32 x 4-27/32 ID	4	
	74887	SPACER, 17/32 ID x 7/8 OD x 3/8 thick	2	
17	383-B	NUT, 3/8-24 plain	16	
16	STD-2090	NUT, 1/2-20 plain	18	

Page 3-4 - Figure 22  
Intercylinder Cooling Baffles

4	75339	BAFFLE ASSY., Intercylinder	2	
	71611	RETAINER, Intercylinder baffle	2	
	71610	HOOK, Intercylinder baffle	2	

Page 3-5 - Figure 23  
Cylinder Drain Tubes, Exhaust Flange and Gaskets

1	77611	GASKET, Exhaust flange	4	
3	STD-35	WASHER, 5/16 plain	8	
4	STD-475	WASHER, 5/16 lock	8	
5	STD-1410	NUT, 5/16-18 plain	8	
6	STD-684	NIPPLE, Straight 3/8 ID hose	4	
7	STD-1821	HOSE, 3/8 ID x 2-1/2 long	4	
8	STD-2174	CLAMP, Hose 5/8 dia.	8	
9	68759	TUBE ASSY., Cyl. head oil drain cyl. no. 1	1	
10	68760	TUBE ASSY., Cyl. head oil drain cyl. no. 2	1	
11	68761	TUBE ASSY., Cyl. head oil drain cyls. no. 3 and 4	2	

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SECTION 3 (CONT.)

Page 3-7 - Figure 25  
Priming System

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	1102	PLUG, 1/8-27 NPT	4	
2	LW-12098-1-170	TUBE ASSY., Primer cyl.no.1	1	
3	61581-32	TUBE ASSY., Primer cyl.no.2	1	
	LW-12098-1-116	TUBE ASSY., Primer cyl.no.3	1	
5	LW-12098-0-100	TUBE ASSY., Primer, intermediate	1	
9	LW-12293	CLIP, 3/16 ID for 1/4 screw	4	
	LW-14432	BRACKET, Support clamp	1	
8	1102	PLUG, 1/8-27 NPT	1	
10	71910	CLAMP, 1-3/4 ID x 1/4 offset	3	
11	STD-553	SCREW, 6-32 x 1/2 rd.hd.	3	
12	AN365-632A	NUT, 6-32 self-locking	3	
13	STD-853	TEE, Union 1/8 tube	2	
14	74225	NIPPLE ASSY., Primer	3	
	STD-670	NUT, 10-32	1	
	STD-692	SCREW, 10-32	1	

SECTION 4

Page 4-1 - Figure 26  
Magneto, Magneto Drives and Magneto Kits

1	LW-13643	GEAR, Retainer magneto drive	1	
	LW-13641	CUSHION, Magneto drive	2	
5	LW-12681	GASKET, Magneto	1	
7	LW-385124-113	MAGNETO, Ignition system impulse D4LN-2021	1	O-360
	LW-385124-112	MAGNETO, Ignition system impulse D4RN-2021	1	LO-360
	LW-382555-15	MAGNETO, Ignition, 20° lag angle	1	O-360
	LW-382555-14	MAGNETO, Ignition, 20° lag angle	1	LO-360
	LW-684400-303	HARNESS, Ignition, 3/4-20 spark plug term.	1	
11	75965	CLAMP, Magneto	2	
9	STD-475	WASHER, 5/16 lock	2	
10	STD-1410	NUT, 5/16-18 plain	2	
	76734	ZIP STRAP	15	
	STD-692	SCREW, 6-32	2	
	STD-670	NUT, Self-lock	2	
	LW-14875	BRACKET, Extension	1	
	MS21919-G12	CLIP, 3/4 dia.no.10 screw	1	
	LW-14057	CLIP, 1 wire for 1/4 screw (top leads)	2	

O-360-A1G6D, LO-360-A1G6D

SECTION 4 (CONT.)

Page 4-1 - Figure 26 (Cont.)  
Magneto, Magneto Drives and Magneto Kits

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	LW-320297-2	CLIP, 1 wire for 1/4 screw (bottom leads)	3	
	LW-320298-2	CLIP, 2 wire for 1/4 screw (bottom leads)	2	
	LW-320298-1	CLIP, 2 wire for 10-32 screw (baffle attach)	1	
	LW-320432-1	CLIP, 6 wire for 1/4 screw (accy. hsg. attach)	1	
	LW-320300-1	CLIP, 4 wire for 10-32 screw	2	
	STD-1874	SCREW, 1/4-20 x 7/8	5	
	STD-8	WASHER, 1/4 plain	10	
	LW-382698	KIT, Magneto ground terminal	2	

Page 4-8 - Figure 33  
Spark Plugs

1	1182-D4	SPARK PLUG (Champion RHM-38E)	8	
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SECTION 5

Page 5-5 - Figure 38  
Alternator Bracket

	76906	BRACKET, Alternator	1	
	LW-13365	BRACE, Alternator bracket	1	
	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1	
	STD-475	WASHER, 5/16 lock	1	
	STD-1838	BOLT, 5/16-18 x 15/16	3	
	LW-10729	LINK, Alternator adjusting	1	
	STD-35	WASHER, 5/16 plain	1	
	STD-1858	BOLT, 5/16-18 x 29/32	1	
	76908	STRUT, Alternator support	1	
	STD-1858	BOLT, 5/16-18 x 29/32	1	

Page 5-6 - Figure 39  
Starter Assemblies and Attaching Parts

	LW-14207	STARTER, 12 volt, 3.38:1 int. red. (MZ-4218)	1	O-360
	LW-10556	STARTER, 12 volt, 3.38:1 int. red. (MZ-4216)	1	LO-360
	STD-35	WASHER, 5/16 plain	4	

O-360-A1G6D, LO-360-A1G6D

SECTION 5 (CONT.)

Page 5-6 - Figure 39 (Cont.)  
Starter Assemblies and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	STD-475	WASHER, 5/16 lock	4	
	STD-2156	BOLT, 5/16-18 x 1-5/32	1	
	STD-1410	NUT, 5/16-18 plain	3	

SECTION 6

Page 6-1 - Figure 40  
Fuel Pump

1	60096	GASKET, Fuel pump	1	
4	75246	FUEL PUMP, Low press. diaphragm	1	
5	STD-33	WASHER, 3/8 plain	2	
7	STD-1882	SCREW, 3/8-16 x 1-9/32	2	

Page 6-3 - Figure 42  
Crankshaft Idler Gears and Fuel Pump Drives

	61544	PLUNGER, Fuel pump long	1	
	LW-12911	GEAR ASSY., Crankshaft idler	1	
	LW-10286	GEAR ASSY., Crankshaft idler	1	

Page 6-5 - Figure 44  
Oil Sump Assembly

1	LW-13353	GASKET, Oil sump	1	
2	77159	SUMP ASSY., Oil	1	
3	69602	CONNECTION, Intake pipe	4	
4	61400	STUD, 1/4-20 x 1-3/16	4	
5	31C-14	STUD, 5/16-18 x 1-3/4	4	
7	1102	PLUG	2	
8	STD-551	PLUG, 1/2-14 NPT, sq. hd. drilled	2	
9	STD-8	WASHER, 1/4 plain	28	
10	STD-160	WASHER, 1/4 lock	20	
11	STD-1204	BOLT, 1/4-20 x 15/16	8	
	STD-1419	BOLT, 1/4-20 x 1-1/8	2	
12	STD-1411	NUT, 1/4-20 plain	18	
22	70484	SCREEN, Oil suction	1	
23	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1	
24	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.	1	
13	71712	PIPE, Intake nos. 1 and 2 cyl.	2	
	71713	PIPE, Intake nos. 3 and 4 cyl.	2	

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SECTION 6 (CONT.)

Page 6-5 - Figure 44 (Cont.)  
Oil Sump Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
14	69603	HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4	4	
15	STD-1269	CLAMP, Hose 1-7/8 x 2-1/4 ID x 9/16 wide	8	
16	71973	GASKET, 2 bolt flange 1-7/8 ID	4	
17	73346	FLANGE, Intake pipe upper	4	
18	STD-8	WASHER, 1/4 plain	8	
19	STD-160	WASHER, 1/4 lock	8	
20	STD-1215	BOLT, 1/4-20 x 1-1/4	8	
	1102	PLUG, 1/8-27 NPT	2	
	61548	PLATE, Name	1	
	STD-1901	DRIVE STUD, No. 4 x 3/16	4	

Page 6-6 - Figure 45  
Carburetor, Gasket and Attaching Parts

1	77154	GASKET, Carburetor	1	
2	LW-12097	CARBURETOR, MS model HA-6 (10-5092)	1	
4	STD-35	WASHER, 5/16 plain	4	
5	STD-1410	NUT, 5/16-18 plain	4	
6	STD-1763	LOCKNUT, 5/16 palnut	4	
7	74070	ELBOW, 3/8 tubing adj. 45°	1	

SUPPLEMENTAL PARTS LIST SSP1476

To Provide Parts Coverage for Avco Lycoming Model  
O-360-A4K and O-360-A4J Aircraft Engines

This parts supplement follows the same basic format as PC-106 with which it is used. Parts peculiar to the -A4K and -A4J models are listed in this supplement. Otherwise parts reference is made to parts already listed in the original catalog PC-106 when possible.

In cases where the -A4K differs from the -A4J it is so noted under the column Model Usage. No designation under this column indicates part applies to both models.

This supplemental parts list supersedes SSP1575 dated December, 1975.



O-360-A4J, -A4K

SECTION 1  
CRANKCASE, CRANKSHAFT, CAMSHAFT GROUP

Page 1-1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-13820	CRANKCASE ASSY., WCF	1	
17	LW-13793	STUD, Drilled, 5/16 x 15/16 in. long	1	

All other parts use column headed -A2G.

Page 1-2

9	LW-13792	SEAL, Crankshaft oil	1	
16	LW-13884	BEARING, Crankshaft, front	2	
	LW-13796	SHAFT, Crankshaft idler gear	2	
	STD-2167	SCREW, 5/16-18 x 7/8 long, drilled hd.	3	
	STD-2168	NUT, 5/16-18 slotted	1	

Page 1-3

2	61084	SPRING, Oil pressure relief valve	1	
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All other parts use column headed -A2G. -A4K model engines are not shipped with adjustable oil pressure relief valve.

Page 1-4

1	LW-11153	CRANKSHAFT ASSY., (Solid)	1	
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Figure reference numbers 2 and 20 are not required on -A4K model engines. All other parts use column headed -A2G.

Page 1-5

This page is not applicable to -A4K model engines.

Page 1-6

7	STD-33	WASHER, Plain, 3/8 in.	3	
	AN960-616L	WASHER, Plain, 3/8 in. thick	AR	
9	AN6-34A	BOLT, Hex. hd., 3/8-24 x 3-37/64 in. long	2	

All other parts use column headed -A2G.

O-360-A4J, -A4K

SECTION 1 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT GROUP

Page 1-7

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
For starter ring gear support and ring gear use P/N 77579 under column headed -A2G.				

Page 1-8

1A	75736	TUBE, Oil level gage, long	1	
1B	LW-12789	TUBE, Oil level gage, 12.81 in. long	1	
	72059	GASKET, Oil level gage	1	
2	74068	RING, Oil level gage seal	1	
3A	LW-14758	GAGE ASSY., Oil level (for 75736 tube)	1	
3B	LW-13745	GAGE ASSY., (For LW-12789 tube)	1	
7	STD-366	PIN, 1/16 in. dia. x 7/16 in. long	1	

Figure reference number 5 is not applicable to O-360-A4K model engines.

Page 1-9

This page is not applicable to -A4K model engines.

SECTION 2  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-1

This page is not applicable to -A4K model engines.

Page 2-2

2	77412	HOUSING ASSY., Accessory	1	-A4K
	77422	HOUSING ASSY., Accessory	1	-A4J

All other parts use column headed -A2G.

Page 2-3

1	78528	BODY ASSY., Oil pump	1	
7	78532	IMPELLER ASSY., Oil pump driven	1	
10	LW-14260	SEAL, Tachometer drive, oil	1	

All other parts use column headed -A2G.

O-360-A4J, -A4K

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-4

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
3	STD-294	GASKET, 7/8 in. OD x 5/8 in. ID x 3/32 annular	1	
4	62417	PLUG, Oil cooler bypass	1	
5	STD-784	PLUG, Allen hd., 3/8-18 NPT	2	
6	71140	FITTING, Breather (assemble in accessory housing)	1	

Above parts required for O-360-A4K model engines. Use parts figure reference numbers 9, 10, 11, 12 and 13 for -A4J models.

Page 2-5

7	STD-1856	SCREW, Hex. hd., slotted 1/4-20 x 31/32 to 1 in. long	4	
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All other parts use column headed -A2G.

Page 2-6

All parts use column headed -A1H.

Page 2-7

All parts use column headed -A2G.

Page 2-8

This page is not applicable to -A4K model engines.

Page 2-9

29	8313	GASKET, Vacuum pump	1	
30	60430	COVER, Vacuum pump pad	1	
	68593	SPACER, Vacuum pump drive	4	-A4J
31	STD-8	WASHER, Plain, 1/4 in.	4	
32	STD-160	WASHER, Internal lock, 1/4 in.	4	
33	STD-1411	NUT, Plain, 1/4-20	4	

Only parts required for O-360-A4K model engines.

O-360-A4J, -A4K

SECTION 3  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-1

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
1	LW-11750	CONNECTING ROD ASSEMBLY	4	
2	LW-13923	BUSHING, Connecting rod upper	4	
3	75061	BOLT, Connecting rod	8	
4	LW-12186	NUT, Connecting rod bolt	8	
5	LW-13521	BEARING, Connecting rod	8	
7	LW-14078	PIN, Piston	4	

All other parts use column headed -A2G.

Page 3-2

1	LW-12527	CYLINDER ASSEMBLY, WCF	4	
4	76943	GUIDE, Valve, intake	4	
5	77160	GUIDE, Valve, exhaust	4	
6	66796-P20	INSERT, Spark plug, 18-1/5MM	8	
10	MS-20823-6D	ELBOW, 45°, 3/8 in. flared tube	4	
16	LW-13323	SEAT, Valve spring, lower, exhaust	4	
17	LW-11795	SPRING, Valve inner	8	
	LW-11800	SPRING, Valve outer	8	
	1102	PLUG, Allen hd., 1/8-27 NPT (not fuel injected)	4	

All other parts use column headed -A2G.

Page 3-3

3	LW-11485	TUBE, Push rod shroud	8	
5	LW-13428	SPRING, Shroud tube	4	
6	LW-12272	LOCKPLATE, Shroud tube	4	
16	STD-2090	NUT, Plain, 1/2-20	18	
17	383-B	NUT, Plain, 3/8-24	16	
18	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 in. thick	2	

Do not use figure reference numbers 4 and 7. All other parts except those listed above, use column headed -A2G.

Page 3-4

All parts use column headed -A2G.

Page 3-5

77611	EXHAUST FLANGE GASKET	4	-A4J
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For all other parts use column headed -A2G. Use figure reference numbers 3, 4, 5 to attach exhaust flange.

O-360-A4J, -A4K

SECTION 3 (CONT.)  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-6

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
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This page is not applicable to -A4K model engines.

Page 3-7

6	LW-12098-1-170	TUBE ASSY., Primer, cylinders #1 and 2	2	
	LW-12098-1-116	TUBE ASSY., Primer, cylinders #3 and 4	2	
7	LW-12098-1-134	TUBE ASSY., Primer, intermediate, left	1	
	LW-12098-0-100	TUBE ASSY., Primer, intermediate, right	1	
9	LW-12293	CLIP, Cushion type, 3/16 in. ID for 1/4 in. screw	4	
	LW-14432	BRACKET, Support clamp	1	
10	71910	CLAMP, 1-3/4 ID with 1/4 in. offset	4	
11	STD-553	SCREW, Rd. hd., #6-32 x 1/2 in. long	4	
12	AN365-632A	NUT, Self-locking, #6-32	4	
13	STD-853	TEE, Union, 1/8 in. tube	3	
14	74225	NIPPLE ASSEMBLY, Primer	4	
	STD-670	NUT, #10-32	1	
	STD-692	SCREW, #10-32	1	

Figure reference numbers 6 thru 14 are only parts required for O-360-A4K model engine priming.

SECTION 4  
MAGNETOS, MAGNETO DRIVES, AND MAGNETO KITS

Page 4-1

	STD-761	PIN, Cotter 3/32 in. x 1.00 in. long	1	-A4K
5	LW-12681	GASKET, Magneto	2	-A4K
6	LW-12706	ADAPTER, Magneto, impulse coupling	1	-A4K
7	77742	MAGNETO AND HARNESS ASSY. (Slick Magneto)	1	-A4K
	76949	MAGNETO, Right (Slick Model 4050)	1	-A4K

0-360-A4J, -A4K

SECTION 4 (CONT.)  
MAGNETOS, MAGNETO DRIVES, AND MAGNETO KITS

Page 4-1 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	77743	HARNESS ASSY., Ignition, right (Slick Magneto)	1	-A4K
	77744	MAGNETO AND HARNESS ASSEMBLY (Slick Magneto)	1	-A4K
	76950	MAGNETO, Left (Slick Model 4051, impulse coupling)	1	-A4K
	77745	HARNESS ASSY., Ignition, left (Slick Magneto)	1	-A4K
8	STD-1727	WASHER, Plain, 3/4 in. OD x 11/32 ID x 1/8 in. thick	4	-A4K
11	76961	CLAMP, Magneto	4	-A4K
	76734	ZIP STRAPS	8	-A4K

Also use parts figure reference nos. 1, 3, 4 and 10.

Page 4-1

1	61665	GEAR, Magneto impulse	1	-A4J
3	61163	GEAR, Magneto	1	-A4J
4	62224	GASKET, Magneto adapter and magneto	3	-A4J
6	LW-12706	ADAPTER, Magneto impulse coupling	1	-A4J
7	LW-163045-3	MAGNETO, S4LN-204	1	-A4J
	LW-51360-45	MAGNETO, S4LN-21 (impulse coupling)	1	-A4J

Also use parts figure reference nos. 8, 9 and 10.

Page 4-2

	LW-M-2451	HARNESS ASSY., Left magneto	1	-A4J
	LW-M-2452	HARNESS ASSY., Right magneto	1	-A4J
	LW-M-2375	PLATE, Spark plug cable	2	-A4J
	72351	SCREW, No. 10-32 self-locking	8	-A4J
	72815	BRACKET, Twist	3	-A4J
	73971	CLAMP, 1/2 ID for 1/4 screw	5	-A4J
	STD-692	SCREW, No. 10-32	7	-A4J
	STD-425	WASHER, No. 10 plain	7	-A4J
	STD-670	NUT, No. 10-32	7	-A4J
	LW-10815	BRACKET, Twist	2	-A4J
	AN500416-18	SCREW, 1/4-20 x 1-1/8	1	-A4J

O-360-A4J, -A4K

SECTION 4 (CONT.)  
MAGNETOS, MAGNETO DRIVES, AND MAGNETO KITS

Page 4-2 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
	STD-1411	NUT, 1/4-20	1	-A4J
	STD-160	WASHER	1	-A4J
	STD-8	WASHER, 1/4 plain	9	-A4J
	LW-14060	CLAMP, Two wire for 1/4 screw	4	-A4J
	LW-14057	CLAMP, One wire for 1/4 screw	4	-A4J
	STD-1874	SCREW, 1/4-20	4	-A4J
	STD-696	WASHER, 1/4 plain	AR	-A4J
	STD-1925	SCREW, 1/4-20	3	-A4J
	76734	ZIP STRAP	8	-A4J
	73152	BRACKET, Straight	2	-A4J

Page 4-3

This page is not applicable to -A4K model engines.

Page 4-4

This page is not applicable to -A4K model engines.

Page 4-5

This page is not applicable to -A4K model engines.

Page 4-6

This page is not applicable to -A4K model engines.

Page 4-7

This page is not applicable to -A4K model engines.

Page 4-8

For applicable spark plug use column headed -A2G.

SECTION 5  
ELECTRICAL COMPONENTS

Page 5-1

This page is not applicable to -A4K model engines.

O-360-A4J, -A4K

SECTION 5 (CONT.)  
ELECTRICAL COMPONENTS

Page 5-2

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
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This page is not applicable to -A4K model engines.

Page 5-3

This page is not applicable to -A4K model engines.

Page 5-4

This page is not applicable to -A4K model engines.

Page 5-5

4	76906	BRACKET, Alternator	1	
	LW-13365	BRACE, Alternator bracket	1	
7	LW-10729	LINK, Alternating adjusting	1	
9	STD-1858	BOLT, Hex. hd., drilled, 5/16-18 x 29/32 in. long	1	
12	76908	STRUT, Alternator support	1	
13	STD-1858	BOLT, Hex. hd., drilled, 5/16-18 x 29/32 in. long	1	

All other parts required use column headed -A2G. Alternators are not shipped with O-360-A4K model engines.

Page 5-6

1	LW-14207	STARTER, 12V (12-14 pitch pinion) 3.38:1 ratio (Prestolite P/N MZ-4218)	1	
9	STD-475	WASHER, Shake-proof lock, 5/16 in.	4	
	STD-2156	BOLT, Hex. hd., 5/16-18 x 1-5/32 in. long	1	

All other parts use column headed -A2G. O-360-A4K not shipped with magnetic starter switch.

Page 5-7

This page is not applicable to -A4K model engines.



O-360-A4J,-A4K

SECTION 6  
INDUCTION SYSTEM

Page 6-1

Ref. No.	Part No.	Description	Qty. Per Assy.	Model Usage
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All parts use column headed -A2G.

Page 6-2

This page is not applicable to -A4K model engines.

Page 6-3

For all parts use column headed -A2G. Figure reference numbers 5,6,7 and 8 do not apply to O-360-A4K model engines.

Page 6-4

This page is not applicable to -A4K model engines.

Page 6-5

1	LW-13353	GASKET,Oil sump	1	
11	STD-1204	BOLT,Hex.hd.,1/4-20 x 15/16 in.long	8	
	STD-1419	BOLT,Hex.hd.,1/4-20 x 1-1/8 in.long	2	
24	LW-12545	PLUG,5/8 in.hex.hd.,x 1.00-20 thread	1	

For all other parts,except those listed above,use column headed -A2G. Figure reference number 21 is not applicable to O-360-A4K model engines.

Page 6-6

1	77154	GASKET,Carburetor	1	
2	LW-12097	CARBURETOR,Marvel-Schebler Model HA-6	1	

All other parts use column headed -A2G.

## SUPPLEMENTAL PARTS LIST SSP1276

To Provide Parts Coverage for Avco Lycoming  
T0-360-C1A6D Model Aircraft Engines

This supplement offers a complete parts list for the T0-360-C1A6D model engines. Parts are arranged herein in group assemblies similar to those in Parts Catalog PC-106. This allows use of the illustrations in PC-106 with this supplement. Each group assembly listed is headed by a page and illustration figure number corresponding to those in PC-106, followed by the parts listing.

Use the Table of Contents in the original parts catalog PC-106 to find the page number and illustration of the desired parts. (Example: Cylinder Assembly, Page 3-2.) The corresponding page in this supplement (Cylinder Assembly, Page 3-2) lists the parts for the T0-360-C1A6D model.

The illustrations, pictures and drawings referred to in this publication are typical of the subject matter they portray; in no instance are they to be interpreted as any specific engine or part thereof.

TO-360-C1A6D

SECTION 1

Page 1-1 - Figure 1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-13694	CRANKCASE ASSEMBLY	1
6	75154	STUD, 1/2-13 x 10-1/32 long	2
7	50-15	STUD, 1/2-20 x 1-7/8 long	8
11	38-13	STUD, 3/8-16 x 1-5/8 long	16
13	38D-17	STUD, 3/8-16 x 2-1/8 drilled	1
15	61261	STUD, 5/16-18 x 1-1/2 long	2
16	67528	STUD, 5/16-18 x 1-5/8 long	1
14	38-22	STUD, 3/8-18 x 2-3/4 long	1
2	STD-557	DOWEL, 1/2 dia. x 39/64 long	2
21	72158	BUSHING, Governor drive idler shaft	1
3	STD-514	DOWEL, 5/16 dia. x 1/2 long	2
4	69796	DOWEL, Crankshaft bearing	2
20	1102	PLUG, 1/8-27 NPT	4
23	STD-1623	INSERT, 1/4-20 x 3/8 long	2
24	65007	RETAINER, Shroud tube	8
22	STD-1339	PLUG, 1/16-27 NPT	1
19	67556	STUD, 5/16-18	4
	73772	NOZZLE ASSEMBLY, Piston cooling	4

Page 1-2 - Figure 2  
Camshaft Assembly, Crankcase Related Parts

1	LW-13954-S	CAMSHAFT	1
2	76121	SHAFT ASSY., Tachometer	1
3	78368	PIN, 3/16 dia. x 2-21/64 long	1
4	76118	SPACER, Tachometer centering	1
5	MS16625-1081	RING, Internal retaining	1
6	LW-10284	GEAR, Crankshaft	1
7	LW-10332	LOCKPLATE, Crankshaft gear	1
8	AN8-14A	BOLT, 1/2-20 x 1-19/32 long	1
9	78443	SEAL, Crankshaft oil	1
10	72075	SEAL, Oil 3/32 sect. x 1/2 ID	2
11	72091	RING, Oil seal, 3/8 ID x 1/64 sect.	2
12	73061	BODY, Hydraulic tappet	8
13	78290	PLUNGER ASSY., Hydraulic tappet	8
14	78524	SOCKET, Push rod, hydraulic tappet	8
15	LW-13683	BEARING, Crankshaft	4
16	LW-13885	BEARING, Crankshaft, front	2

TO-360-C1A6D

SECTION 1 (CONT.)

Page 1-3 - Figure 3  
Oil Pressure Relief Valve

Ref. No.	Part No.	Description	Qty. Per Assy.
1	1028-B	BALL, 11/16	1
2	68668	SPRING, Oil pressure relief valve	1
8	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32	1
9	77808	VALVE ASSY., Oil pressure relief valve, adjustable	1

Page 1-4 - Figure 4  
Crankshaft Assembly

1	LW-12174	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
	LW-12173	CRANKSHAFT ASSY.	1
2	LW-14529	PLUG, 2-1/16 dia. expansion	1
	1102	PLUG, 1/8-27 NPT	1
	LW-12172	CRANKSHAFT, Sub assembly	1
3	74711	PLUG, 1-1/4 OD (1/8 NPT)	1
4	STD-2078	DOWEL, 3/8 OD x 1/2 long	1
5	75657	BUSHING, Prop. flange, indexing	1
6	72155	BUSHING, Prop. flange, short	1
7	75656	BUSHING, Prop. flange, long	4
13	73810	BUSHING, Crankshaft, counterweight	4
14	72801	COUNTERWEIGHT ASSY.	2
15	71903	BUSHING, Counterweight	8
16	LW-10977	ROLLER, Counterweight	2
17	LW-10945	ROLLER, Counterweight	2
18	LW-14820	RING, Internal retaining	8
19	71907	WASHER, Counterweight	8

Page 1-6 - Figure 6  
Crankcase Attaching Parts

1	STD-1414	BOLT, 1/4-20 x 1-1/2 long	8
	STD-8	WASHER, 1/4 plain	20
4	60803	LIFTING STRAP	2
2	STD-2084	BOLT, 1/4-20 x 1-3/4 long	1
5	STD-1419	BOLT, 1/4-20 x 1-1/8 long	3
	STD-160	WASHER, 1/4 lock	12
	STD-1411	NUT, 1/4-20 plain	9
6	STD-1416	BOLT, 1/4-20 x 1-1/2 drilled end	3
	STD-8	WASHER, 1/4 plain	9 max.
	STD-1409	NUT, 1/4-20 slotted shear	3
7	STD-33	WASHER, 3/8 plain	3
	AN960-616L	WASHER, 3/8 plain (thick)	1

TO-360-C1A6D

SECTION 1 (CONT.)

Page 1-6 - Figure 6 (Cont.)  
Crankcase Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
8	STD-872	NUT, 3/8-24 slotted shear	1
9	AN6-34A	BOLT, 3/8-24 x 3-37/64	2
	STD-33	WASHER, 3/8 plain	2
	STD-678	WASHER, 3/8 lock	2
	STD-596	NUT, 3/8-24 plain	2
12	76220	STUD, 1/2-20 x 10-45/64	4
	STD-35	WASHER, 5/16 plain	5
	STD-475	WASHER, 5/16 lock	1
	STD-1838	BOLT, 5/16-18 x 15/16	1

Page 1-7 - Figure 7  
Starter Ring Gear Supports

1	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch	1
2	72566	GEAR, Starter ring, 12/14 pitch	1

Page 1-8 - Figure 8  
Oil Level Gage Assembly

	72059	GASKET, Oil level gage	1
1	78626	TUBE ASSY., Oil level gage, 15-1/8 long	1
1A	75767	TUBE, Oil level gage	1
	75761	EXTENSION, Oil filler	1
	76220	GASKET, Oil level gage	1
2	74065	RING, Oil level gage seal	1
3	LW-14782	GAGE ASSY., Oil level	1

SECTION 2

Page 2-2 - Figure 11  
Accessory Housing Assembly

1	73818	GASKET, Accessory housing	1
2	LW-10887	HOUSING ASSY., Accessory	1
	61262	STUD, 1/4-20 x 1-1/2 long	4
	67528	STUD, 5/16-18 x 1-5/8 long	2
	LW-12589	INSERT, 5/8-18 x 3/8 long	1
	MS124703	INSERT, 3/4-16 x 1-1/8 long	1
	LW-10341	INSERT, 1.00-14 x 3/8 long	1
	75888	STUD, 1/4-20 x 1-1/4	6

## TO-360-C1A6D

## SECTION 2 (CONT.)

Page 2-3 - Figure 12  
Oil Pump Assembly and Accessory Housing Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-10342	BODY, Oil pump	1
7	78532	IMPELLER ASSY., Driven	1
5	LW-14040	GEAR ASSY., Oil pump drive	1
6	60746	IMPELLER, Impeller oil pump driving	1
8	STD-35	WASHER, 5/16 plain	3
9	STD-2150	BOLT, 5/16-18 x 1-3/4	3
10	LW-14260	SEAL, Tachometer drive	1
11	STD-8	WASHER, 1/4 plain	12
12	STD-160	WASHER, 1/4 lock	12
13	STD-1204	BOLT, 1/4-20 x 15/16	9
	STD-1215	BOLT, 1/4-20 x 1-1/4	1
	STD-1875	BOLT, 1/4-20 x 13/16	2

Page 2-4 - Figure 13  
Oil Cooler Bypass Valve

MS29512-10	SEAL, Oil, 3/32 x 45/64	1
AN814-10L	PLUG, 7/8-14	1
MS29512-10	SEAL, Oil, 3/32 x 45/64	2
LW-14828	REDUCER, 1/2 tubing to 5/8 tubing	2
STD-294	GASKET, 7/8 x 5/8 x 3/32	1
1540	PLUG, Thermometer well	1

Page 2-5 - Figure 14  
Oil Filter Assembly

LW-10321	SPRING, Oil filter bypass valve	1
76539	SEAT, Oil relief valve	1
LW-10320	SLEEVE, Oil filter bypass valve	1
MS16625-1100	RING, Internal retaining	1
LW-13906	FILTER ASSY., Short	1
LW-13904	KIT, Converter plate	1
75944	VALVE ASSY., Thermostatic bypass	1

Page 2-6 - Figure 15  
Vacuum Pump Drive

LW-10305	GEAR ASSY., Accessory driven	1
71596	WASHER, Accessory driven gear	1
STD-208	SEAL, Oil, 7/8 x 1-1/2 x 5/16	1
8313	GASKET, Vacuum pump	1
60430	COVER, Vacuum pump	1

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SECTION 2 (CONT.)

Page 2-7 - Figure 16  
Propeller Governor Drive

Ref. No.	Part No.	Description	Qty. Per Assy.
	77875	GEAR, Propeller governor driven	1
	LW-14021	SHAFT, Propeller governor idler gear	1
	77874	GEAR ASSY., Propeller governor idler	1
	77872	BUSHING, Prop. governor idler gear	2
	STD-19	DOWEL, 3/32 dia. x 7/32 long	1
	STD-798	DOWEL, 3/32 dia. x 1/4 long	1
	73249	WASHER, Thrust	un
	73250	WASHER, Thrust	un
	73251	WASHER, Thrust	un
	73252	WASHER, Thrust	un
	MS9048-111	PIN, Spring	1
	70455	GASKET, 25/32 ID x 1-1/8 OD x 1/16	1
	LW-13896	PLUG, 3/4-16 hex.hd.	1
	72053	GASKET, Governor	1
	72378	COVER, Governor	1

SECTION 3

Page 3-1 - Figure 19  
Connecting Rod, Piston and Ring Assemblies

1	LW-13422	CONNECTING ROD	4
2	LW-13923	BUSHING, Connecting rod upper	4
3	LW-12596	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod	8
5	LW-13212	BEARING, Connecting rod	8
6	LW-10545	PISTON, Comp. ratio 7.3:1	4
7	LW-14077	PIN, Piston	4
8	LW-11775	PLUG, Piston	8
9	74241	RING, Piston compression	8
10	73857	RING, Piston oil regulating	4

Page 3-2 - Figure 20  
Cylinder Assembly

1	LW-13964	CYLINDER AND HEAD ASSY.	4
2	LW-12688	SEAT, Intake valve	4
3	71894	SEAT, Exhaust valve	4
4	76077	GUIDE, Valve intake	4
5	LW-14045	GUIDE, Valve exhaust	4
6	69260	INSERT, Spark plug long reach	8
7	72706	INSERT, 1/4-20 x 3/8	8

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SECTION 3 (CONT.)

Page 3-2 - Figure 20 (Cont.)  
Cylinder Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
8	25C-8	STUD, 1/4-20 x 1.00	8
11	66670	BUSHING, Rocker shaft inner	16
	25C-10	STUD, 1/4-20 x 1-1/4	16
	STD-1353	INSERT, 10-24 x 3/8	8
	LW-13123	BAFFLE, Center fin pack	4
	STD-8	WASHER, 1/4 plain	4
	STD-1925	SCREW, 1/4-20 x 5/8	4
	1102	PLUG, 1/8-27 NPT	4
12	LW-13262	VALVE, Intake	4
13	LW-11082	VALVE, Exhaust	4
17	LW-11797	SPRING, Valve auxiliary	8
18	LW-11796	SPRING, Valve outer	8
15	LW-14893	SEAT, Valve spring lower intake	4
16	LW-14894	SEAT, Valve spring lower exhaust	4
19	69532	SEAT, Valve spring upper intake	4
20	LW-10076	SEAT, Valve spring upper exhaust	4
23	72050	KEY, Valve intake	8
	62388	CAP, Valve stem	4
21	MS13997-3	KEY, Valve exhaust	8
14	MS13998-3	CAP, Valve stem, exhaust	4

Page 3-3 - Figure 21  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

3	LW-14018	TUBE ASSY., Push rod shroud	8
5	LW-13565	SPRING, Shroud tube	8
4	LW-13618	SPACER, Shroud tube	8
	LW-13619	WASHER, 25/32 x 1-1/4 x 3/64	8
2	70310	SEAL, Shroud tube	16
8	73462	ROD ASSY., Push	un
	73463	ROD ASSY., Push	un
	73464	ROD ASSY., Push	un
9	76266	ROCKER ASSY., Valve	8
10	76242	BUSHING, Rocker arm	8
	71549	WASHER, Valve rocker thrust	8
	72626	SHAFT, Valve rocker	8
	LW-11665	THRUST BUTTON, Rocker shaft	16
	66732	GASKET, Rocker shaft cover	8
	72710	COVER, Rocker shaft	8
	72709	SCREW, 1/4-20 x 5/8 self-locking	8
	76036	GASKET, Rocker box cover	4
	LW-14433	COVER ASSY., Rocker box	4



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SECTION 3 (CONT.)

Page 3-3 - Figure 21 (Cont.)  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

Ref. No.	Part No.	Description	Qty. Per Assy.
	STD-2059	SCREW, 1/4-20 x 11/16 self-locking	32
14	71481	SEAL, "O" ring 3/32 sect. x 4-27/32 ID	4
	74887	SPACER, 1/2 ID x 7/8 OD x 3/8 thick	2
17	383-B	NUT, 3/8-24 plain	16
16	STD-2090	NUT, 1/2-20 plain	18

Page 3-4 - Figure 22  
Intercylinder Cooling Baffles

1	LW-14833	BAFFLE ASSY., Intercylinder	4
2	71610	HOOK, Intercylinder baffle	4
3	71611	RETAINER, Intercylinder baffle	4

Page 3-5 - Figure 23  
Cylinder Drain Tubes, Exhaust Flange and Gaskets

1	LW-13938	GASKET, Exhaust flange	8
6	STD-684	NIPPLE, Straight, 3/8 ID hose	4
7	STD-2180	HOSE, 3/8 ID x 1-13/16	4
8	STD-1924	CLAMP, Hose, 1/2 to 3/4 ID x 5/8 wide	8
	STD-1223	NIPPLE, 3/8 tube x 1/4 pipe thd.	4
9	LW-13976	TUBE ASSY., Cyl. hd. drain no.1	1
10	LW-13977	TUBE ASSY., Cyl. hd. drain no.2	1
11	LW-13978	TUBE ASSY., Cyl. hd. drain no.3 & 4	2

Page 3-7 - Figure 25  
Priming System

1	LW-12098-1-170	TUBE ASSY., Primer 17.00 long no.1 cyl.	1
2	LW-12098-2-240	TUBE ASSY., Primer 24.00 long no.2 cyl.	1
3	LW-12098-1-134	TUBE ASSY., Primer 13-1/2 long no.3 cyl.	1
4	LW-12098-3-160	TUBE ASSY., Primer 16.00 long inter.	1
9	LW-12293	CLIP, 3/16 ID for 1/4 screw	4
1	1102	PLUG, 1/8-27 NPT	1
10	71910	CLAMP, 1-3/4 with 1/4 offset	3
11	STD-553	SCREW, No.6-32 x 1/2 long	3
12	AN365-632A	NUT, 6-32 self-locking	3
13	STD-853	TEE, Union 1/8 tube	2
14	74225	NIPPLE ASSY., Primer	3

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SECTION 4

Page 4-4 - Figure 26  
Magneto, Magneto Drive and Kits

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-13643	GEAR RETAINER, Magneto drive	1
	LW-13641	CUSHION, Magneto drive	2
	LW-12681	GASKET, Magneto	1
7	LW-385124-118	MAGNETO, Ignition system	1
	LW-382555-13	MAGNETO, Ignition	1
	LW-384407-303	HARNESS, Ignition	1
	75965	CLAMP, Magneto	2
	STD-475	WASHER, 5/16 lock	2
	STD-1410	NUT, 5/16-18 plain	2
	76734	ZIP STRAP	26
	LW-320298-2	CLIP, 1/4 screw	2
	73971	CLIP, 1/2 ID for 1/4 screw	2
	STD-1874	SCREW, 1/4-20 x 7/8	2
	STD-8	WASHER, 1/4-20	4
	LW-382698	KIT, Magneto ground terminal	2
	1182-U5	SPARK PLUG	8

SECTION 5

Page 5-5 - Figure 38  
Alternator and Attaching Parts

1	LW-14316	ALTERNATOR, 12 volt - 70 amp (ALX-8421)	1
4	LW-13039	BRACKET, Alternator	1
5	73383	LOCKPLATE, 5/16 bolt x 1.00	1
6	STD-1838	BOLT, 5/16-18 x 15/16	2
7	75380	LINK, Alternator adjusting	1
8	STD-35	WASHER, 5/16 plain	1
9	STD-1817	BOLT, 5/16-18 x 3/4 long	1
10	STD-1727	WASHER, 3/4 OD x 3/8 ID x 1/8	1
11	STD-1817	BOLT, 5/16-18 x 3/4 long	1
12	74323	STRUT, Alternator support	1
13	STD-1817	BOLT, 5/16-18 x 3/4	1
14	STD-690	WASHER, 13/16 x 3/8 ID x 1/16	un
15	AN6-14	BOLT, 3/8-24 x 1-19/32 drilled	1
17	STD-872	NUT, 3/8-24 slotted	1
18	STD-713	PIN, Cotter 3/32 x 3/4 long	1
19	AN6-16	BOLT, 3/8-24 x 1-27/32 drilled	1
20	76534	SHIM, 1-1/8 OD x 13/32 x .005	un
22	STD-872	NUT, 3/8-24 slotted	1
23	STD-713	PIN, Cotter 3/32 x 3/4 long	1

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SECTION 5 (CONT.)

Page 5-6 - Figure 39  
Starter Assembly and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-14207	STARTER,12 volt 3.38:1 red.12/14 pitch	1
3	STD-35	WASHER,5/16 plain	4
4	STD-475	WASHER,5/16 lock	4
5	STD-2156	BOLT,5/16-18 x 1-5/32	1
6	STD-1410	NUT,5/16-18	1
	LW-12083	SWITCH,Magnetic (SAZ-4201E-1)	1

Page 5-7  
Alternator Belt Drive

1	76026	BELT,Alternator drive	1
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SECTION 6

Page 6-3 - Figure 42  
Fuel Pump,Drives and Crankshaft Idler Gears

3	61544	PLUNGER,Fuel pump long	1
1	LW-10296	GEAR ASSY.,Crankshaft idler	1
4	LW-10286	GEAR ASSY.,Crankshaft idler	1
5	60096	GASKET,Fuel pump	1
	75247	FUEL PUMP	1
7	STD-33	WASHER,3/8 plain	2
8	STD-1882	BOLT,3/8-16 x 1-9/32 socket hd.drilled	2
	75252	ELBOW,1/4 tube x 9/16 thd. 90°	1
	72377	ELBOW,3/8 tube x 90°	1

Page 6-5 - Figure 44  
Sump Assembly

1	LW-13353	GASKET,Oil sump	1
2	LW-13661	SUMP ASSEMBLY,Oil	1
3	69602	CONNECTION,Intake pipe	4
4	61400	STUD,1/4-20 x 1-3/16	4
5	31C-14	STUD,5/16-18 x 1-3/4	4
7	1102	PLUG,1/8-27 NPT	2
8	STD-551	PLUG,1/2-14 NPT	2
9	STD-8	WASHER,1/4 plain	28
10	STD-160	WASHER,1/4 lock	20
11	STD-1204	BOLT,1/4-20 x 15/16 long	8
	STD-1419	BOLT,1/4-20 x 1-1/8	2

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## SECTION 6 (CONT.)

Page 6-5 - Figure 44 (Cont.)  
Sump Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
12	STD-1411	NUT, 1/4-20	18
22	70484	SCREEN, Oil suction	1
23	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32	1
24	LW-12545	PLUG, 5/8 x 1.00-20	1
13	LW-13944	PIPE, Intake no.1 and 2 cyl.	2
	LW-13945	PIPE, Intake no.3 and 4 cyl.	2
14	69603	HOSE, 1-3/4 ID x 2-3/16 x 1-3/4	4
15	STD-1269	CLAMP, Hose 1-7/8 x 2-1/4 x 9/16	8
16	71973	GASKET, 2 bolt flange 1-7/8 ID	4
	STD-8	WASHER, 1/4 plain	8
	STD-160	WASHER, 1/4 lock	8
	STD-1215	BOLT, 1/4-20 x 1-1/4	8
	LW-13807	ADAPTER ASSY., Fuel drain valve	2
	61548	NAMEPLATE	1
	STD-1901	DRIVE STUD, No.4 x 3/16	4

Page 6-6 - Figure 45  
Carburetor Assembly

77154	GASKET, Carburetor	2
LW-14487	ADAPTER ASSY., Carburetor	1
31C-14	STUD, 5/16-18 x 1-3/4	4
LW-14689	CARBURETOR, Marvel-Schebler HA-6	1
STD-35	WASHER, 5/16 plain	8
STD-1410	NUT, 5/16-18 plain	8
STD-1763	LOCKNUT, 5/16 palnut	8
MS20822-4-4	ELBOW, 1/4 tube x 1/4 NPT 90° (carb. inlet)	1
LW-14714	CONNECTOR, Push-pull cable	1
LW-13429	ROD END, Female no.10-32	2
STD-63	NUT, 10-32 plain	2
AN3-7	BOLT, 10-32 x 29/32	2
STD-122	WASHER, No.10 plain	6
STD-303	NUT, 10-32 slotted	2
STD-68	PIN, 3/32 x 1/2 long, cotter	2
LW-14724	BRACKET, Angle 90°	1
AN365-1024	NUT, 10-24 self-locking	1
73650	CLIP, 1/4 ID for 1/4 screw	1
AN500A416-10	SCREW, 1/4-20 x 1-1/8 fill.hd.	1
STD-1685	NUT, 1/4-20 self-locking	1

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SECTION 6 (CONT.)

Exhaust Manifold, Transition and Waste Gate

Ref. No.	Part No.	Description	Qty. Per Assy.
	LW-13938	GASKET, Exhaust flange	8
	LW-13999	MANIFOLD ASSY., Exhaust right	1
	LW-14001	PIPE, Exhaust cyl.no.1	1
	LW-14003	PIPE, Exhaust cyl.no.3	1
	LW-13996	BALL JOINT ASSY.	1
	LW-11400	ADAPTER, Exhaust pipe	1
	LW-13998	MANIFOLD ASSY., Exhaust left	1
	LW-14002	PIPE, Exhaust cyl.no.2	1
	LW-14004	PIPE, Exhaust cyl.no.4	1
	LW-11400	ADAPTER, Exhaust pipe	1
	STD-2044	NUT, 1/4-20 self-locking	16
	LW-13986	PIPE, Exhaust tail	1
	LW-13997	HEAT SHIELD	1
	STD-1597	CLAMP, 1-13/16 dia. x 9/16 wide	2
	LW-14485	GASKET, Turbocharger inlet	2
	LW-13464	CLAMP, 3-11/16 dia.	1
	LW-14944	TRANSITION AND WASTE GATE ASSY.	1
	LW-13671	SPRING, Waste gate	1
	LW-14063	GASKET, V-band coupling	1
	LW-13985	FLANGE, V-band coupling	1
	LW-13991	SUPPORT, Linkage control	1
	STD-160	WASHER, 1/4 lock	2
	STD-473	SCREW, 1/4-28 x 5/8	2
	STD-9	NUT, 1/4-28	2
	LW-13971	HEAT SHIELD	1
	STD-160	WASHER, 1/4 lock	1
	STD-1919	SCREW, 1/4-20 x 9/16	1
	STD-1826	SCREW, 1/4-20 x 5/8 self-locking	2
	LW-14017	BAFFLE, Turbocharger	1
	STD-1838	BOLT, 5/16-18 x 15/16	1
	STD-2043	NUT, 5/16-18 self-locking	1
	STD-1269	CLAMP, 1-7/8 to 2-5/16 x 9/16 wide	1

Turbocharger and Mounting Parts

	LW-13965	TURBOCHARGER	1
	LW-13963	MOUNT ASSY., Turbo outlet	1
	LW-13475	BUSHING, Turbo mount	1
	LW-13961	MOUNT ASSY., Turbo compressor inlet	1
	LW-13475	BUSHING, Turbo mount	1
	LW-13476	GASKET, Turbo compressor inlet	2
	STD-28	WASHER, #10 plain	6
	STD-82	SCREW, 10-24 x 1/2 long	6

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## SECTION 6 (CONT.)

## Turbocharger and Mounting Parts (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
	LW-13958	STRUT, Turbo upper front	1
	LW-14430	HEAT SHIELD, Turbo strut	1
	LW-13957	STRUT, Turbo lower front	1
	LW-13956	STRUT, Turbo lower front	1
	LW-13959	STRUT, Turbo upper rear (att. to vac. pad)	1
	STD-8	WASHER, 1/4 plain	3
	STD-160	WASHER, 1/4 lock	4
	STD-1414	BOLT, 1/4-20 x 1-1/2 long	4
	STD-1411	NUT, 1/4-20	4
	STD-35	WASHER, 5/16 plain	1
	STD-475	WASHER, 5/16 lock	1
	STD-1410	NUT, 5/16-18 plain	1
	STD-2156	BOLT, 5/16-18 x 1-5/16	1
	STD-475	WASHER, 5/16 lock	1
	STD-1828	BOLT, 5/16-18 x 1-5/16	1
	STD-8	WASHER, 1/4 plain	1
	STD-160	WASHER, 1/4 lock	1
	STD-1411	NUT, 1/4-20 plain	1
	STD-1885	BOLT, 1/4-20 x 1-41/64	1

## Turbocharger Plumbing

	LW-13470	GASKET, Turbo oil drain	1
	LW-14391	FLANGE, Turbo oil drain	1
	STD-33	WASHER, 3/8 plain	2
	STD-678	WASHER, 3/8 lock	2
	STD-1957	BOLT, 3/8-16 x 1.00	2
	1102	PLUG, 1/8-27 NPT	1
	LW-13478	ELBOW, 1/4 tube x 1/8 NPT (turbo oil inlet)	1
	LW-12798-4-130	HOSE ASSY., (Turbo oil inlet)	1
	76734	ZIP STRAP	1
	LW-14393	ELBOW, 5/8 ID hose x 1/2 NPT 45° (in sump)	1
	LW-14392	TUBE, Turbo oil drain	1
	LW-14394	HOSE, Turbo oil drain	2
	STD-2117	CLAMP, Hose	4
	MS21919-G14	CLIP, 7/8 ID x #10 screw	1
	STD-969	SCREW, #10-32 x 1/2 long dr. hd.	1
	STD-425	WASHER, #10 plain	1
	STD-670	NUT, 10-32 self-locking	1
	LW-12056	SPACER, Oil pressure fitting	1
	AN901-8A	GASKET, 3/4 ID x 1.00 OD	1

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SECTION 6 (CONT.)

Turbocharger Plumbing (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
	71623	WASHER, Oil cooler fitting	1
	LW-14898	BOLT, Oil temp.	1
	77627	ELBOW, 1/4 tube x 1/8 NPT restricted (Assemble in LW-12056 spacer)	1
	1102	PLUG, 1/8 NPT	2
Air Inlet Housing			
	LW-14488	DUCT, Air inlet	1
	78427	HOSE, 2-1/4 ID x 2-3/8 long	1
	AN737TW-82	CLAMP, Hose 2-1/8 - 2-9/16 x 9/16 wide	2
	LW-13473	GASKET, Carb. inlet adapter	1
	LW-13705	ADAPTER, Carb. inlet	1
	STD-1947	BOLT, 3/8-16 x 19/32	1
	STD-33	WASHER, 3/8 plain	1
	STD-678	WASHER, 3/8 lock	1
	STD-1925	SCREW, 1/4-20 x 5/8	2
	STD-1916	SCREW, 1/4-20 x 1-1/8	2
	LW-13719	HOSE, 3.00 ID x 2-3/8	1
	AN737TW-107	CLAMP, Hose	2
	MS29513-138	SEAL, O-ring, 3-1/8 x 1/64	1
	LW-13779	VALVE ASSY., Abs. press. relief	1
	STD-425	WASHER, #10 plain	4
	STD-251	WASHER, #10 internal lock	4
	STD-375	SCREW, #10-24 x 5/8	3
	AN500-10-18	SCREW, #10-24 x 1-1/8	1
	LW-12798-4-130	HOSE ASSY., Fuel pump to carb.	1
	LW-14719	BRACKET, Carb. linkage	1
	STD-160	WASHER, 1/4 lock	2
	STD-1411	NUT, 1/4-20 plain	2
	MS29512-4	SEAL, Oil	1
	AN814-4L	PLUG, 7/16-20 thd.	1

SUPPLEMENTAL PARTS LIST SSP476

To Provide Parts Coverage for Avco Lycoming  
O-360-C2E Model Aircraft Engines

This parts supplement follows the same basic format as original parts catalog PC-106 with which it is used. Parts peculiar to the O-360-C2E model or part numbers updated are listed in this supplement. Otherwise parts reference is made herein to the various models in the original parts catalog for their application to the -C2E model.



O-360-C2E

SECTION 1

Page 1-1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty.
1	LW-13808	CRANKCASE ASSY.	1
17	LW-13793	STUD, 5/16-18 x 15/16 drilled	1

Use all other parts under -C2C column - WCF.

Page 1-2

Camshaft Assembly, Crankcase Related Parts

9	LW-13792	SEAL, Crankshaft oil	1
14	78524	SOCKET, Push rod, hydraulic tappet	8
16	LW-13884	BEARING, Crankshaft front	2
	LW-13796	SHAFT, Crankshaft idler gear	2
	STD-2167	SCREW, 5/16-18 x 7/8 long, drilled hd.	3
	STD-2168	NUT, 5/16-18 slotted shear	1

Use all other parts under -C2C column - WCF.

Page 1-3

Oil Pressure Relief Valve

Use parts under -C2C column.

Page 1-4

Crankshaft Assembly

Use parts under -C2C column - WCF.

Page 1-6

Crankcase Attaching Parts

Use parts under -C2A column.

Page 1-7

Starter Ring Gear Support

1	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch	1
2	72566	GEAR, Starter ring, 12/14 pitch	1

Page 1-8

Oil Level Gage Assemblies

1	75767	TUBE, Oil level gage inter.ext.	1
2	74065	RING, Oil level gage seal	1
3	72847	GAGE ASSY., Oil level	1
7	STD-366	PIN, 1/16 dia. x 7/16 long	1

O-360-C2E

SECTION 2

Page 2-2  
Accessory Housing Assembly

Ref. No.	Part No.	Description	Qty.
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Use parts under -C2A column - WCF.

Page 2-3

Oil Pump Assembly and Accessory Housing Attaching Parts

1	78528	BODY ASSY.,Oil pump	1
7	78532	IMPELLER ASSY.,Oil pump driven	1
10	LW-14260	SEAL,Tach drive oil	1

Use all other parts under -C2C column except ref.nos.2 and 3.

Page 2-4

Oil Cooler Bypass Valve

16	71140	FITTING,Breather	1
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Use all other parts under -C2C column - WCF.

Page 2-5

Oil Pressure Screen Housing and Oil Filter Assembly

3	69510	HOUSING ASSY.,Oil screen	1
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Use all other parts under -C2C column - WCF.

Page 2-6

Vacuum Pump Drive

Use parts ref.nos.1 thru 6 inclusive under -C2C column.

Page 2-7

Propeller Governor Drive Cover

Use parts under -C2C column.

SECTION 3

Page 3-1

Connecting Rod, Piston and Ring Assembly

1	LW-11750	CONNECTING ROD ASSY.	4
2	LW-13923	BUSHING	4
5	LW-13521	BEARING	8
7	LW-14078	PIN,Piston	4

Use all other parts under -C2C column - WCF.

O-360-C2E

SECTION 3 (CONT.)

Page 3-2  
Cylinder Assembly

Ref. No.	Part No.	Description	Qty.
1	LW-12427	CYLINDER ASSY.	4
4	76943	GUIDE, Valve intake	4
5	77160	GUIDE, Exhaust valve	4
10	MS20823-6D	ELBOW, 45° - 3/8 flared tube	4
16	LW-13323	SEAT, Valve spring lower exhaust	4
17	LW-11795	SPRING, Valve inner	4
18	LW-11800	SPRING, Valve outer	4

Use all other parts under -C2C column.

Page 3-3

Shroud Tubes, Push Rods and Valve Rocker Assembly

1	62922	SEAL, Shroud tube	8
3	LW-11485	TUBE, Push rod shroud	8
5	LW-13428	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
13	LW-13790	SHAFT, Valve rocker	4
	LW-12892	THRUST BUTTON	8
18	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 thick	2

Use all other parts under -C2C column - WCF.

Page 3-4

Intercylinder Cooling Baffles

Use parts under -C2C column - WCF.

Page 3-5

Cylinder Drain Tubes, Exhaust Flange and Gaskets

Use parts under -C2C column - WCF.

SECTION 4

Page 4-1

Magnetos and Magneto Drives

1	61665	GEAR, Magneto, impulse coupling	1
3	61163	GEAR, Magneto	1
4	62224	GASKET, Magneto adapter	1
5	LW-12681	GASKET, Magneto	2
6	LW-12706	ADAPTER, Magneto	1
7	77742	MAGNETO AND HARNESS ASSY., Right (Slick)	1

O-360-C2E

SECTION 4 (CONT.)

Page 4-1 (Cont.)  
Magnetos and Magneto Drives

Ref. No.	Part No.	Description	Qty.
	76949	MAGNETO,Right (Slick 4050)	1
	77743	HARNESS ASSY.,Right (Slick)	1
	77744	MAGNETO AND HARNESS ASSY.,Left (Slick)	1
	76950	MAGNETO,Left (Slick 4051 impulse)	1
	77745	HARNESS ASSY.,Left (Slick)	1
	76961	CLAMP,Magneto	4
	STD-475	WASHER,5/16 lock	4
	STD-1727	WASHER,5/16 x 1/8 thick	4
	STD-1410	NUT,5/16-18 plain	4
	76734	ZIP STRAPS	8

Page 4-8  
Spark Plugs

1	1182-B3	SPARK PLUGS	8
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SECTION 5

Page 5-4  
Voltage Regulators

1	LW-10185	REGULATOR,12 volt (VSF-7203)	1
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Page 5-5  
Alternator and Attaching Parts

1	78407	ALTERNATOR,Prestolite ALY-8403,12 volt 60 amp	1
4	LW-13039	BRACKET,Alternator	1

Use all other parts under -A1D column.

Page 5-6  
Starter Assembly and Attaching Parts

	LW-14207	STARTER,12 volt,3.38:1 (MZ-4218) 12/14 pitch	1
	LW-12083	SWITCH,Magnetic (SAZ-4201E-1)	1

Use all other parts under -A4A column.

Page 5-7  
Alternator Drive Belt

1	76026	BELT,Alternator drive	1
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O-360-C2E

SECTION 6

Page 6-3  
Fuel Pump Drives

Ref. No.	Part No.	Description	Qty.
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Use parts with ref.nos.1,2,5,6,7 and 8.

Page 6-5  
Sump Assembly

1	LW-13353	GASKET,Oil sump	1
2	78915	SUMP ASSY.	1
3	78914	CONNECTION,Intake pipe	4
24	LW-12545	PLUG,5/8 hex.hd.x 1.00-20 thd.	1
	61548	PLATE,Name	1
	STD-1901	DRIVE STUD	4

Use all other parts under -C2C column.

Page 6-6  
Carburetor Assembly, Gaskets and Attaching Parts

1	66224	GASKET,Carburetor	1
2	71710	CARBURETOR (10-4164-1)	1
	71032	BUSHING,Engine mount	8
	STD-619	WASHER,1/2 ID x 1-3/4 OD x 1/8 thick	8

Also use parts 4,5 and 6.

SUPPLEMENTAL PARTS LIST SSP376  
FOR AVCO LYCOMING PARTS CATALOG PC-106

To Provide Parts Coverage for Avco Lycoming  
O-360-A4M Model Aircraft Engines

This parts supplement follows the same basic format as original parts catalog PC-106. The parts used in the O-360-A4M model closely follow the O-360-A4A model, therefore, this supplement refers to the -A4A model column in the original parts catalog whenever possible for parts application. Only parts peculiar to the -A4M model are listed herein.

O-360-A4M

SECTION 1

Page 1-1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty.
1	LW-13820	CRANKCASE ASSEMBLY	1
17	LW-13793	STUD, 5/16 x 15/16 drilled	1

Use all other parts under -A4A column.

Page 1-2

Camshaft Assembly, Crankcase Related Parts

9	LW-13792	SEAL, Crankshaft oil	1
14	78524	SOCKET, Push rod	8
16	LW-13884	BEARING, Front, crankshaft	2
	LW-13796	SHAFT, Crankshaft idler gear	2
	STD-2167	SCREW, 5/16-18 x 7/8 long, dr.hd.	3
	STD-2168	NUT, 5/16-18 slotted shear	1

Use all other parts under -A4A column.

Page 1-3

Oil Pressure Relief Valve

2	61084	SPRING, Oil pressure relief valve	1
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Use all other parts under -A4A column.

Page 1-4

Crankshaft Assembly

Use all parts under -A4A column.

Page 1-6

Crankcase Attaching Parts

9	AN6-34A	BOLT, 3/8-24 x 3-9/16 long	2
	STD-33	WASHER, 3/8 plain	6
	LW-11866	NUT, Compressor	2

Use all other parts under -A4A column.

Page 1-7

Starter Ring Gear Support

Use all parts under -A4A column.

O-360-A4M

SECTION 1 (CONT.)

Page 1-8  
Oil Level Gage Assemblies

Ref. No.	Part No.	Description	Qty.
3A	LW-14758	GAGE ASSY.,Oil level Use all other parts under -A4A column.	1

SECTION 2

Page 2-2  
Accessory Housing Assembly  
Use all parts under -A4A column.

Page 2-3  
Oil Pump Assembly and Accessory Housing Attaching Parts

1	78528	BODY ASSY.,Oil pump	1
7	78532	IMPELLER ASSY.,Driven	1
10	LW-14260	SEAL,Tachometer drive	1

Use all other parts under -A4A column except fig.ref.nos.2 and 3.

Page 2-4  
Oil Cooler Bypass Valve  
Use all parts under -A4A column.

Page 2-5  
Oil Pressure Screen Housing and Oil Filter Assembly

11	LW-12795	GASKET,Oil filter adapter	
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Also use parts fig.ref.nos.5 thru 13 inclusive.

Page 2-6  
Vacuum Pump Drive

Use all parts under -A4A column.

SECTION 3

Page 3-1  
Connecting Rod, Piston and Ring Assemblies

1	LW-11750	CONNECTING ROD ASSEMBLY	4
2	LW-13923	BUSHING,Connecting rod upper	4



O-360-A4M

SECTION 3 (CONT.)

Page 3-1 (Cont.)  
Connecting Rod, Piston and Ring Assemblies

Ref. No.	Part No.	Description	Qty.
3	75061	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod bolt	8
5	LW-13521	BEARING, Connecting rod	8
7	LW-14078	PIN, Piston	4

Use all other parts under -A4A column.

Page 3-2  
Cylinder Assembly

1	LW-12427	CYLINDER ASSEMBLY	4
4	76943	GUIDE, Intake	4
5	77160	GUIDE, Exhaust	4
10	MS20823-6D	ELBOW, 45° - 3/8 flared tube	4
16	LW-13323	SEAT, Valve spring, lower exhaust	4
17	LW-11795	SPRING, Valve, inner	8
18	LW-11800	SPRING, Valve, outer	8

Use all other parts under -A4A column.

Page 3-3  
Shroud Tubes, Push Rods and Valve Rocker Assemblies

1	62922	SEAL, Shroud tube	8
3	LW-11485	TUBE, Push rod shroud	8
5	LW-13428	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
13	LW-13790	SHAFT, Valve rocker	4
	LW-12892	THRUST BUTTON, Rocker shaft	8
18	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 thick	2

Page 3-4  
Intercylinder Cooling Baffles

Use all parts under -A4A column.

Page 3-5  
Cylinder Head Drain Tube and Exhaust Flange Gaskets

Use all parts under -A4A column.

O-360-A4M

SECTION 4

Page 4-1  
Magnetos and Magneto Drives

Ref. No.	Part No.	Description	Qty.
4	62224	GASKET, Magneto	1
5	LW-12681	GASKET, Magneto	2
6	LW-12706	ADAPTER, Magneto impulse coupling	1
7	77742	MAGNETO AND HARNESS ASSY., Right (Slick)	1
	76949	MAGNETO, Right (Slick 4050)	1
	77743	HARNESS, Ignition right (Slick)	1
	77744	MAGNETO AND HARNESS ASSY., Left (Slick)	1
	76950	MAGNETO, Left (Slick 4051 impulse)	1
	77745	HARNESS, Ignition left (Slick)	1
	76961	CLAMP, Magneto	4
	76734	ZIP STRAPS	8
	LW-M-2375	PLATE, Spark plug cable	2

Use all other parts under -A4A column.

Page 4-8  
Spark Plugs

1	1182-B3	SPARK PLUG	8
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SECTION 5

Page 5-6  
Starter Assembly and Attaching Parts

LW-14207	STARTER, 12 volt - 3.38:1 ratio (12/14 pitch)	1
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Use all other parts under -A4A column.

SECTION 6

Page 6-1  
Fuel Pumps, Cover and Attaching Parts

Use all parts under -A4A column.

Page 6-3  
Fuel Pump Drives

Use all parts under -A4A column.

O-360-A4M

-SECTION 6 (CONT.)

Page 6-5  
Sump Assembly

Ref. No.	Part No.	Description	Qty.
1	LW-13353	GASKET, Oil sump	1
2	78915	SUMP ASSY., Oil	1
3	78914	CONNECTION, Intake pipe	4
24	LW-12545	PLUG, 5/8 hex.hd.x 1.00-20 thd.	1
	61548	NAMEPLATE	1
	STD-1901	DRIVE STUD	4

Use all other parts under -A4A column.

Page 6-6  
Carburetor Assembly, Gaskets and Attaching Parts

Use all parts under -A4A column.

## SUPPLEMENTAL PARTS LIST SSP775

### To Provide Parts Coverage for Avco Lycoming O-360-A5AD Model Aircraft Engines

This supplement is arranged in the same basic format as Avco Lycoming Parts Catalog PC-106. Page and figure reference numbers correspond to page and figure reference numbers in PC-106.

Parts listed in this supplement, without figure reference numbers, denote new parts, parts not figure referenced in original PC-106, or parts not illustrated in PC-106. When this supplement references a specific column under a specific model as listed in PC-106, it means those parts in that column are applicable to O-360-A5AD model engines.

To avoid confusion, where many changes have occurred in a major sub-assembly, the entire sub-assembly is listed herein. Examples are found on pages 6, 7 and 8.

Pages in PC-106 that do not apply to O-360-A5AD model engines are so designated in this supplement.

#### NOTE 1

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

#### NOTE 2

Spark plugs listed in this supplement are those used in production only; this list does not include additional spark plugs that are approved for use in these engines. See latest edition of Service Instruction No. 1042 for complete listing of all approved spark plugs.

O-360-A5AD

SECTION 1  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Page 1-1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-12373	CRANKCASE ASSEMBLY	1
4	69796	DOWEL, Crankshaft bearing	2
6	75154	STUD, 1/2-13 x 10-1/32 in. long	2
20	1102	PLUG, Allen hd. , 1/8-27 NPT	5
	STD-783	PLUG, Allen hd. , 1/4-18 NPT (no governor drive)	1

Do not use figure reference numbers 8-9-10-12-14-17-18-19-21-23-24. Use column under engine model -A1A WCF for other parts.

Page 1-2

6	LW-10284	GEAR, Crankshaft	1
7	LW-10332	LOCKPLATE, Crankshaft gear	1
8	AN8-14A	BOLT, Hex. hd. , 1/2-20 x 1-19/32 in. long	1
9	LW-13792	SEAL, Crankshaft oil	1
14	78524	SOCKET, Push rod, hyd. tappet	8
15	LW-11021	BEARING, Crankshaft	4
16	LW-13884	BEARING, Crankshaft, front	2

Use column under engine model O-360-A1A, WCF for other parts applicable to O-360-A5AD.

Page 1-3

2	61084	SPRING	1
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Use figure reference numbers 1-3-4-5 only.

Page 1-4

1	LW-13018	CRANKSHAFT ASSEMBLY	1
4	STD-2078	DOWEL, 3/8 in. OD x 1/2 in. long	1

Use figure reference numbers 5-8-11 followed by letters WCF. Do not use any other figure reference numbers listed on this page.

O-360-A5AD

SECTION 1 (CONT.)  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Page 1-5

This page does not apply to O-360-A5AD model engines.

Page 1-6

Ref. No.	Part No.	Description	Qty. Per Assy.
	Do not use figure reference numbers 9-10-11.		
7	STD-33	WASHER, Plain, 3/8 in.	5
	AN960-616L	WASHER, 3 max.	
	AN634A	BOLT	2
	STD-596	NUT	1
	STD-678	WASHER	2

For all other parts listed on this page use column under O-360-A1A, WCF.

Page 1-7

For correct parts, listed on this page, for O-360-A5AD model engine, use column under O-360-A1H.

Page 1-8

For correct parts, listed on this page, for O-360-A5AD model engine, use column under O-360-A1F6, also add 72059 gasket, oil level gage.

Page 1-9

This page is not applicable to O-360-A5AD model engines.

SECTION 2  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-1

This page is not applicable to O-360-A5AD model engines.

Page 2-2

2	LW-10833	HOUSING ASSEMBLY, Accessory	1
3	25C-12	STUD, 1/4-20 x 1-1/2 in. long	4

O-360-A5AD

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-2 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
5	67528	STUD, 5/16-18 x 1-5/8 in. long	2
	LW-12589	INSERT, Heli-coil, 5/8-18 x 3/8 in. long	1
	MS-124703	INSERT, Heli-coil, 3/4-16 x 1-1/8 in. long	1
	LW-10341	INSERT, Heli-coil, 1.00-14 x 3/8 in. long	1
	73818	GASKET, Accessory housing	1

Page 2-3

1	LW-10342	BODY, Oil pump	1
	78532	IMPELLER ASSY., Oil pump driven	1
6	60746	IMPELLER, Oil pump driving	1
	LW-14040	GEAR ASSY., Oil pump drive	1
13	STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long	9
14	STD-1875	BOLT, Hex. hd., 1/4-20 x 13/16 in. long	2
	STD-1215	BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	1

For all other parts listed on this page applicable to O-360-A5AD model engines, use column under O-360-A1A.

Page 2-4

NOTE

O-360-A5AD are wide cylinder flange crankcase model engines. The following parts list, in its entirety comprise those parts applicable to O-360-A5AD engines on Page 2-4.

O-360-A5AD

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-4 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
	AN-844-10D*	ELBOW, Pipe thread, 5/8 in. ID hose, 45°	1
	MS-29512-10**	SEAL, Oil, 0.097 in. section x 0.706 in. ID	1
	LW-14178**	FITTING, 45° elbow	1
	STD-294+	GASKET, 7/8 in. OD x 5/8 in. ID x 3/32 in. annular	2
	1540+	PLUG, Thermometer well	2

\* - Apply John Crane Plastic Lead Seal #2 or equivalent. Assemble elbow in accessory housing breather boss toward rear of engine approximately 40° to left of centerline of boss.

\*\* - Assemble in accessory housing at accessory oil return boss.

+ - Assemble in accessory housing at oil temperature and oil pressure bosses.

Page 2-5

	LW-10321	SPRING, Oil filter bypass valve	1
	76539	SEAT, Oil relief valve	1
	LW-10320	SLEEVE, Oil filter bypass valve	1
	MS16625-1100	RING, Internal retaining	1
	LW-10660	OIL FILTER ASSEMBLY	1
10	75944	VALVE ASSY., Temp. control oil cooler bypass	1

Page 2-6

10	LW-10305	GEAR ASSEMBLY, Accessory driven	1
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For all other parts listed on this page applicable to O-360-A5AD model engines, use the following figure reference numbers, 2-4-5-6-9-12-13.

Page 2-7

This page is not applicable to O-360-A5AD model engines.



O-360-A5AD

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-8

This page is not applicable to O-360-A5AD model engines.

Page 2-9

This page is not applicable to O-360-A5AD model engines.

SECTION 3  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-1

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-11750	CONNECTING ROD ASSEMBLY	4
2	LW-13923	BUSHING, Connecting rod, upper	4
3	75061	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod bolt	8
5	LW-13521	BEARING, Connecting rod	8
6	75089	PIN, Piston	4
7	LW-14078	PIN, Piston	4
8	60828	PLUG, Piston pin	8
9	74241	RING, Piston, compression	8
10	73857	RING, Piston, oil reg. , expander type	4

Page 3-2

1	LW-12427	CYLINDER ASSEMBLY, WCF	4
4	76943	GUIDE, Valve, intake	4
5	77160	GUIDE, Valve, exhaust	4
10	MS20823-6D	ELBOW, 3/8 in. flared tube, 45°	4
16	LW-13323	SEAT, Valve spring lower, exhaust	4
17	LW-11795	SPRING, Valve, inner	8
18	LW-11800	SPRING, Valve, outer	8
	1102	PLUG, Allen hd. , 1/8-27 NPT (no injector)	4

All other parts listed on this page are applicable to O-360-A5AD model engines, except figure reference number 22.

O-360-A5AD

SECTION 3 (CONT.)  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-3

Ref. No.	Part No.	Description	Qty. Per Assy.
3	LW-11485	TUBE, Push rod shroud	8
5	LW-13428	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
16	STD-2090	NUT, Cylinder hold down, 1/2-20 plain	18
18	74887	SPACER, 33/64 in. ID x 7/8 in. OD x 3/8 in. thick	2

For all other parts applicable to O-360-A5AD model engines, use column under O-360-A2G.

Page 3-4

For O-360-A5AD model engines use column listing under O-360-A2G.

Page 3-5

For O-360-A5AD model engines use column listing under O-360-A1F6.

Page 3-6

This page does not apply to O-360-A5AD model engines.

Page 3-7

1	65321	GASKET, Exhaust flange	4
2	61260	FLANGE, Exhaust, stainless	4
3	12098-1-284	TUBE ASSEMBLY, Primer, cyl. no. 1	1
4	12098-1-170	TUBE ASSEMBLY, Primer, cyl. no. 2	1
5	12098-1-116	TUBE ASSEMBLY, Primer, cyl. no. 4	1
6	12098-0-100	TUBE ASSEMBLY, Primer, intermediate	1
7	1102	PLUG, Allen hd. , 1/8-27 NPT	1
8	LW-12293	CLIP, 3/16 in. ID x 1/4 in. dia. screw, cushion type	4
9	71910	CLAMP, 1-3/4 in. ID x 1/4 in. dia. offset	3
10	STD-553	SCREW, Rd. hd. , #6-32 x 1/2 in. long	3
11	AN365-632A	NUT, Self-locking, #6-32	3
12	STD-853	TEE, Union, 1/8 in. tube	2
13	74225	NIPPLE ASSEMBLY, Primer	3

## O-360-A5AD

SECTION 4  
MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

Page 4-1

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-13643	GEAR, Retainer, magneto drive	1
2	LW-13641	CUSHION, Magneto drive	2
3	LW-12681	GASKET, Magneto	1
4	LW-385124-110	MAGNETO, Ign. system, impulse D4LN-2021	1
5	LW-382555-11	MAGNETO, Ignition	1
6	LW-384400-303*	HARNESS, Ignition, 3/4 in. -20 spark plug term.	1
7	75965	CLAMP, Magneto	2
8	STD-475	WASHER, Internal lock, 5/16 in.	2
9	STD-1410	NUT, Plain, 5/16-18	2
10	76734	ZIP STRAP	21
11	STD-692	SCREW, #10-32	2
12	STD-670	NUT, Self-locking	2
13	LW-89027-4	BRACKET	1
14	MS21919-G12	CLIP, 3/4 in. dia. with #10 screw	1
15	LW-320298-3	CLIP, One wire, for 1/4 in. dia. screw (top leads)	2
16	LW-320297-2	CLIP, One wire, for 1/4 in. dia. screw (bottom leads)	3
17	LW-320298-2	CLIP, Two wire, for 1/4 in. dia. screw (bottom leads)	2
18	LW-320298-1	CLIP, Two wire, for #10-32 screw (baffle attach)	1
19	LW-320232	CLIP, Six wire, for 1/4 in. screw (accy. hsg. )	1
20	LW-320300-4	CLIP, Four wire, for #10-32 screw (1 at crankcase split, 1 at shroud tube)	2
21	STD-1874	SCREW, 1/4-20 x 7/8 in. long	5
22	STD-8	WASHER, Plain, 1/4 in.	10
23	LW-382698	KIT, Magneto ground terminal	2

\* - Straight fittings.

Pages 4-2 thru 4-7

These pages do not apply to O-360-A5AD model engines.

O-360-A5AD

SECTION 4 (CONT.)  
MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

Page 4-8

Ref. No.	Part No.	Description	Qty. Per Assy.
1	1182-D4	SPARK PLUG (Champion RHM-38E)	8

SECTION 5  
ELECTRICAL COMPONENTS

Pages 5-1 thru 5-3

These pages do not apply to O-360-A5AD model engines.

Page 5-4

Use column under O-360-A1F6.

Page 5-5

1	LW-14308	ALTERNATOR, 12V. -60Amp. , 3. 25:1 ratio (externally grounded)	1
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Do not use figure reference numbers 2 and 3.

4	LW-13039	BRACKET, Alternator	1
14	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 in. thick	1
16	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 in. thick	un
21	STD-690	WASHER, 13/16 OD x 25/64 ID x 1/16 in. thick	un

For all other parts applicable to O-360-A5AD model engines use column under O-360-A2D.

Page 5-6

LW-14207	STARTER, 12 volt, 3. 38:1 ratio, 12/14 pinion	1
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O-360-A5AD

SECTION 5 (CONT.)  
ELECTRICAL COMPONENTS

Page 5-6 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
	STD-35	WASHER, Plain, 5/16 in.	4
	STD-475	WASHER, Internal lock, 5/16 in.	4
	STD-2156	BOLT, Hex. hd. , 5/16-18 x 1-5/32 in. long	1
	STD-1410	NUT, Plain, 5/16-18	3
	LW-12083	SWITCH, Starter, magnetic	1

Page 5-7

1	76026	BELT, Alternator drive, .375 in. wide	1
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SECTION 6  
INDUCTION SYSTEM

Page 6-1

	60096	GASKET, Fuel pump	1
	75246	FUEL PUMP, Low pressure, dual diaphragm	1
	STD-33	WASHER, Plain, 3/8 in.	2
	STD-1882	SCREW, Socket hd. , rd. hd. , 3/8-16 x 1-9/32 in. long	2

Page 6-2

This page does not apply to O-360-A5AD model engines.

Page 6-3

1	61544	PLUNGER, Fuel pump, long	1
2	LW-10296	GEAR ASSEMBLY, Crankshaft idler	1
3	LW-10299	SHAFT, Crankshaft idler gear	1
4	LW-10286	GEAR ASSEMBLY, Crankshaft idler	1
5	LW-10298	SHAFT, Crankshaft idler gear	1

Page 6-4

This page does not apply to O-360-A5AD model engines.

## O-360-A5AD

SECTION 6 (CONT.)  
INDUCTION SYSTEM

Page 6-5

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-13353	GASKET, Oil sump	1
2	78915	SUMP ASSY., Oil	1
3	78914	CONNECTION, Intake pipe	4
4	61400	STUD, 1/4-20 x 1-3/16 in. long	4
5	68437	STUD, 5/16-18 x 1-7/8 in. long	4
6	STD-91	PLUG, Allen hd., 1/2-14 NPT	1
7	STD-551	PLUG, Sq. hd., drilled, 1/2-14 NPT	2
8	STD-8	WASHER, Plain, 1/4 in.	28
9	STD-160	WASHER, Internal lock, 1/4 in.	20
10	STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long	14
11	STD-1419	BOLT, Hex. hd., 1/4-20 x 1-1/8 in. long	2
12	STD-1411	NUT, Plain, 1/4-20	12
13	70485	PIPE, Intake	4
14	69603	HOSE, 1-3/4 in. ID x 2-3/16 OD x 1-3/4 in. long	4
15	STD-1269	CLAMP, Hose, 1-7/8 to 2-1/4 in. ID x 9/16 in. wide	8
16	71973	GASKET, 2 bolt flange, 1-7/8 in. ID	4
17	73346	FLANGE, Intake pipe, upper	4
18	STD-8	WASHER, Plain, 1/4 in.	8
19	STD-160	WASHER, Internal lock, 1/4 in.	8
20	STD-1215	BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	8
21	61548	PLATE, Name	1
22	STD-1901	DRIVE STUD, No. 4 x 3/16 in. long, rd. hd.	4
23	70484	SCREEN, Oil suction	1
24	STD-111	GASKET, 1.00 in. ID x 1-1/4 in. OD x 3/32 annular	1
25	LW-12545	PLUG, 5/8 in. hex. hd., x 1.00-20 thd.	1

Page 6-6

For parts applicable to O-360-A5AD model engines, use parts listed in column under O-360-C1A.

## O-360-A5AD

## SERVICE REPAIR KITS

## Cylinder, Piston and Ring Kit - Avco Lycoming P/N 76296

Ref. No.	Part No.	Description	Qty. Per Assy.
1	STD-1411	NUT, Plain, 1/4-20	1
2	STD-1925	SCREW	6
3	60009	KEY, Valve, intake	2
4	62922	SEAL, Shroud tube	2
5	60401	SHAFT, Valve rocker	1
6	60828	PLUG, Piston pin	2
7	75906	GASKET, Rocker box cover	1
8	61247	COVER, Rocker box	1
9	MS-13998-3	CAP, Valve stem exhaust, rotator type	1
10	LW-11800	SPRING, Valve, outer	2
11	65441	SEAT, Valve spring lower, intake	1
12	LW-11795	SPRING, Valve inner	2
13	LW-10077	SEAT, Valve spring, upper, intake	1
14	LW-13428	SPRING, Shroud tube	1
15	LW-12272	LOCKPLATE, Shroud tube	1
16	69444	ROCKER ASSEMBLY, Valve intake	1
17	LW-10076	SEAT, Valve spring upper, exhaust, rotator type	1
18	LW-13448	PIN, Piston	1
19	70310	SEAL, Shroud tube	2
20	71195	BOX, Set-up	1
21	71481	SEAL, Cylinder base	1
22	74541	VALVE, Exhaust, rotator type, sodium cooled, chrome stem	1
23	MS-13997-3	KEY, Valve, exhaust (rotator type)	2
24	LW-12328	RING, Piston, oil reg. expander type	1
25	73938	VALVE, Intake	1
26	74241	RING, Piston, compression (chrome)	2
27	LW-12427	CYLINDER AND HEAD ASSY., Straight valve hd.	1
28	75089	PISTON	1
29	74636	ROCKER ASSY., Exhaust	1
30	LW-13323	SEAT, Valve spring lower, exhaust	1

## O-360-A5AD

## SERVICE REPAIR KITS (CONT.)

## Seal and Gasket Kit - Avco Lycoming P/N 75439-1

Ref. No.	Part No.	Description	Qty. Per Assy.
1	AN901-8A	GASKET	1
2	STD-111	GASKET, Annular	1
3	STD-208	SEAL, Oil	1
4	STD-213	SEAL, Oil, fuel pump drive	1
5	STD-294	GASKET, Annular	2
6	STD-1045	GASKET, Annular	1
7	1691-C	GASKET, Fuel pump pad	1
8	8313	GASKET, Vacuum pump	1
9	60096	GASKET, Fuel pump	1
10	61156	LOCKPLATE, Crankshaft gear	1
11	61165	SEAL, Tachometer	1
12	61173	GASKET, Oil pressure hsg.	1
13	61183	GASKET, Accessory adapter	1
14	61523	BOX, Set-up	1
15	62224	GASKET, Magneto adapter	3
16	62922	SEAL, Shroud tube	8
17	65321	GASKET, Exhaust flange	4
18	66224	GASKET, Carburetor	2
19	68315	GASKET, Accessory drive adapter	1
20	LW-13353	GASKET, Oil sump	1
21	69164	GASKET, Fuel pump adapter	1
22	69345	SPACER	4
23	69551	GASKET, Accessory pad cover	1
24	70310	SEAL, Shroud tube	8
25	71481	RING, Oil seal	4
26	71973	LOCKPLATE	4
27	72053	GASKET, Intake flange	2
28	72059	GASKET, Governor drive pad	1
29	72075	GASKET	6
30	72078	SEAL, Oil	2
31	72091	LOCKPLATE, Cam gear	2
32	73383	RING, Oil seal	2
33	73817	LOCKPLATE	2
34	73818	LOCKPLATE, Crankshaft idler gear	1
35	74065	RING, Oil level gage seal	1
36	74068	RING, Oil level gage seal	1



## O-360-A5AD

## SERVICE REPAIR KITS (CONT.)

## Seal and Gasket Kit - Avco Lycoming P/N 75439-1 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Assy.
37	75906	GASKET, Rocker box cover	4
38	76510	GASKET	1
39	76940	SEAL, Crankshaft oil	1
40	LW-13792	SEAL, Crankshaft oil	1
41	LW-12272	LOCKPLATE, Shroud tube	4
42	LW-12681	GASKET, Magneto	2
43	LW-12795	GASKET	1
44	LW-13428	SPRING	4
45	LW-10332	LOCKPLATE	1
46	70455	GASKET	1
47	STD-1763	PALNUT	4

## **SUPPLEMENTAL PARTS LIST SSP674**

### **To Provide Parts Coverage for Avco Lycoming Model O-360-A1LD Aircraft Engines**

This supplement is arranged in the same basic format as PC-106. Page and reference numbers in this supplement correspond to page and reference numbers in PC-106.

Where reference numbers in PC-106 are not listed here it indicates those parts are not applicable to O-360-A1LD engines. Where parts are listed in this supplement without reference numbers it indicates a new part or one not illustrated in PC-106.

Where the note "use column . . ." appears for a particular page it indicates all parts under the noted page and column in PC-106 are applicable to O-360-A1LD engines.

Pages in PC-106 which do not apply to O-360-A1LD engines are so designated.

The letters "un" under the quantity per assembly column indicate the part is to be used as required.

#### **SPECIAL NOTE**

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

O-360-A1LD

SECTION 1  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Page 1-1  
Crankcase Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-12926	CRANKCASE ASSY.	1
2	STD-557	DOWEL, 1/2 dia. x 39/64 long, hollow	2
3	STD-514	DOWEL, 5/16 dia. x 1/2 long	2
4	LW-10647	DOWEL, Crankshaft bearing	4
4	69796	DOWEL, Crankshaft bearing	2
6	75154	STUD, 1/2-13 x 10-1/32 long	2
7	50-15	STUD, 1/2-20 x 1-7/8 long	8
11	38-13	STUD, 3/8-16 x 1-5/8 long	16
13	38D-17	STUD, 3/8-16 x 2-1/8 long	1
14	38-22	STUD, 3/8-16 x 2-3/4 long	1
15	61261	STUD, 5/16-18 x 1-1/2 long	2
16	67528	STUD, 5/16-18 x 1-5/8 long	1
19	67556	STUD, 5/16-18 x 2.00 long	4
20	1102	PLUG, 1/8-27 NPT allen hd.	4
21	72158	BUSHING, Governor drive idler shaft	1
22	STD-1339	PLUG, 1/16-27 NPT allen hd.	1
23	STD-1623	INSERT, 1/4-20 heli-coil x 3/8 long	2
24	65007	RETAINER, Shroud tube seal	8
	STD-1339*	PLUG, 1/16-27 NPT allen hd.	4

\* - Assemble in piston squirt holes.

Page 1-2  
Camshaft Assembly, Crankcase Related Parts

1	78717	CAMSHAFT	1
2	76121	SHAFT ASSY., Tachometer	1
3	78368	PIN, 3/16 dia. x 2-21/64 long	1
4	76118	SPACER, Tachometer centering	1
5	MS16625-1081	RING, Internal retaining	1
6	LW-10284	GEAR, Crankshaft	1
7	LW-10332	LOCKPLATE, Crankshaft gear	1
8	AN8-14A	BOLT, 1/2-20 x 1-19/32 long, hex. hd.	1
9	LW-12077	SEAL, Crankshaft oil	1

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SECTION 1 (CONT.)  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Page 1-2 (Cont.)  
Camshaft Assembly, Crankcase Related Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
10	72075	SEAL, Oil, 3/32 sect. x 15/32 ID	2
11	72091	RING, Oil seal, 23/64 ID x .10 dia. sect.	2
12	72877	BODY, Hydraulic tappet	8
13	78290	PLUNGER ASSY., Hydraulic tappet	8
14	78524	SOCKET, Push rod, hydraulic tappet	8
16	77044	BEARING, Crankshaft, front	2
	LW-11020	BEARING, Crankshaft	4
	LW-11021	BEARING, Crankshaft (alternate)	4

Page 1-3  
Oil Pressure Relief Valve

1	1028-B	BALL, 11/16 dia.	1
2	61084	SPRING, Oil pressure relief valve	1
3	STD-425	WASHER, No. 10 plain (max. 9)	un
4	STD-1045	GASKET, 1-1/4 ID x 1-1/2 OD x 3/32 annular	1
5	76529	PLUG, Oil relief valve	1

Page 1-4  
Crankshaft Assy.

1	LW-12593	CRANKSHAFT ASSY.	1
2	STD-1211	PLUG, 2.00 dia. expansion	1
4	STD-2078	DOWEL, 3/8 OD x 1/2 long	1
7	72060	BUSHING, Propeller flange, indexing	1
8	72061	BUSHING, Propeller flange, short	1
11	72062	BUSHING, Propeller flange, long	4

Page 1-5  
Crankcase Attaching Parts (Std.)

Does not apply.

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SECTION 1 (CONT.)  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Page 1-6  
Crankcase Attaching Parts (WCF)

Ref. No.	Part No.	Description	Qty. Per Assy.
7	STD-33	WASHER, 5/16 internal lock	3
	AN960-616L	WASHER, 3/8 plain, thick (max. 3)	un
9	AN6-34A	BOLT, 3/8-24 x 3-37/64 long, hex. hd.	1

For all other parts use column -D2A.

Page 1-7  
Starter Ring Gear Supports

1	77579	SUPPORT ASSY., Starter ring gear, 12/14 pitch	1
2	72566	GEAR, Starter ring, 12/14 pitch	1

Page 1-8  
Oil Level Gage Assembly

1	75736	TUBE, Oil level gage, long	1
	72059	GASKET, Oil level gage	1
2	74068	RING, Oil level gage seal	1
3	69116	GAGE ASSY., Oil level	1

Page 1-9  
Propeller Governor Oil Tube Assemblies

Does not apply.

SECTION 2  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Pages 2-1 and 2-2  
Accessory Housing Assembly

NOTE: Pages 2-1 and 2-2 do not apply to O-360-A1LD engines. For accessory housing assembly parts use the following:

O-360-A1LD

SECTION 2 (CONT. )  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Pages 2-1 and 2-2 (Cont. )  
Accessory Housing Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
	73818	GASKET, Accessory housing	1
	LW-10883	HOUSING ASSY. , Accessory	1
	67528	STUD, 5/16-18 x 1-5/8 long	2
	25C-12	STUD, 1/4-20 x 1-1/2 long	4
	31CD-18	STUD, 5/16-18 x 2-1/4 long, drilled	3
	LW-12589	INSERT, 5/8-18 x 3/8 long, heli-coil	1
	MS124703	INSERT, 3/4-16 x 1-1/8 long, heli-coil	1
	LW-10341	INSERT, 1. 00-14 x 3/8 long, heli-coil	1

Page 2-3

Oil Pump Assembly and Accessory Housing Attaching Parts

NOTE: Page 2-3 does not apply to O-360-A1LD engines. For oil pump assembly and accessory housing attaching parts use the following. Page 18 of this supplement illustrates the relative position of accessories and drives used with the dual magneto system.

LW-10342	BODY, Oil pump	1
78532	IMPELLER ASSY. , Oil pump driven	1
LW-10316	GEAR ASSY. , Oil pump drive	1
LW-12897	IMPELLER, Oil pump driving	1
STD-1973	KEY, 1/8 x 3/4 dia. woodruff	1
STD-35	WASHER, 5/16 plain	3
STD-1420	NUT, 5/16-18 slotted	3
61165	SEAL, Tachometer drive, oil	1
STD-8	WASHER, 1/4 plain	12
STD-160	WASHER, 1/4 internal lock	12
STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.	9
STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	1
STD-1875	BOLT, 1/4-20 x 13/16 long, hex. hd.	2

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SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-4 - Oil Cooler Bypass Valve

Page 2-5 - Oil Filter Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
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NOTE: Pages 2-4 and 2-5 do not apply to O-360-A1LD engines. For oil cooler bypass valve and oil filter assembly parts use the following. Page 18 of this supplement illustrates the relative position of accessories and drives used with the dual magneto system.

LW-10321		SPRING, Oil filter bypass valve	1
76539		SEAT, Oil relief valve	1
LW-10320		SLEEVE, Oil filter bypass valve	1
MS16625-1100		RING, Internal retaining	1
72413		FITTING, Breather, 120° elbow	1
MS29512-10		SEAL, Oil, 3/32 sect. x 45/64 ID	1
AN814-10L		PLUG, 7/8-14 port	1
STD-294		GASKET, 7/8 OD x 5/8 ID x 3/32 annular	2
1540		PLUG, Thermometer well	2
LW-10660		OIL FILTER ASSY.	1
75944		VALVE ASSY., Temp. control oil cooler bypass	1

Page 2-6  
Vacuum Pump Drive

NOTE: Page 2-6 does not apply to O-360-A1LD engines. For vacuum pump drive parts use the following. Page 18 of this supplement illustrates the relative position of accessories and drives used with the dual magneto system.

8313		GASKET, Vacuum pump	1
60430		COVER, Vacuum pump	1
STD-8		WASHER, 1/4 plain	4
STD-160		WASHER, 1/4 internal lock	4
STD-1411		NUT, 1/4-20 plain	4
LW-10305		GEAR ASSY., Accessory driven	1
71596		WASHER, Accessory driven gear	1
STD-208		SEAL, Oil, 7/8 ID x 1-1/2 OD x 5/16 wide	1

O-360-A1LD

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Pages 2-7 and 2-8  
Propeller Governor Drives, Covers, and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
NOTE: Pages 2-7 and 2-8 do not apply to O-360-A1LD engines. For propeller governor drives, covers, and attaching parts use the following. Page 18 of this supplement illustrates the relative position of accessories and drives used with the dual magneto system.			
	77875	GEAR, Propeller governor driven	1
	77876	SHAFT, Propeller governor idler gear	1
	77874	GEAR ASSY. , Propeller governor idler	1
	77872	BUSHING, Propeller governor idler gear	2
	STD-19	DOWEL, 3/32 dia. x 7/32 long	1
	STD-798	DOWEL, 3/32 dia. x 9/32 long	1
	73249	WASHER, Thrust (max. 3)	un
	73250	WASHER, Thrust (max. 4)	un
	73251	WASHER, Thrust (max. 2)	un
	73252	WASHER, Thrust (max. 1)	un
	MS9048-111	PIN, Spring, 1/8 dia. x 1-3/8 long	1
	70455	GASKET, 7/8 ID x 1-1/8 OD x 1/16 thick	1
	70454	PLUG, 3/4-16 hex. hd.	1
	72053	GASKET, Governor	1
	72378	COVER, Governor drive	1
	STD-35*	WASHER, 5/16 plain	un
	STD-475	WASHER, 5/16 internal lock	4
	STD-1410	NUT, 5/16-18 plain	4

\* - 32 required for Woodward governor, 4 required for "AN" governor.

Page 2-9  
Vacuum and Hydraulic Pump Drive Assembly

Does not apply.



O-360-A1LD

SECTION 3  
CYLINDER, PISTON, AND VALVE TRAIN

Page 3-1  
Connecting Rod, Piston, and Ring Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-11750	CONNECTING ROD ASSEMBLY	1
2	65819	BUSHING, Connecting rod, upper	4
3	75061	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod bolt	8
5	72218	BEARING, Connecting rod	8
6	75089	PISTON, 8.50:1 ratio	4
7	LW-13444	PIN, Piston	4
8	60828	PLUG, Piston pin	8
9	74241	RING, Piston, compression	8
10	LW-12328	RING, Piston, oil regulating	4

Page 3-2  
Cylinder Assembly

1	LW-12427	CYLINDER AND HEAD ASSEMBLY	4
2	72057	SEAT, Intake valve	4
3	72058	SEAT, Exhaust valve	4
4	76943	GUIDE, Valve, intake	4
5	77160	GUIDE, Valve, exhaust	4
6	66796	INSERT, Spark plug, 18-1.5mm	8
7	STD-1872	INSERT, 1/8-27 heli-coil taper pipe thd.	8
8	61261	STUD, 5/16-18 x 1-1/2 long	8
9	68510	STUD, 1/4-20 x 1-1/16 long	4
10	MS20823-6D	ELBOW, 45°, 3/8 flared tube	4
11	66610	BUSHING, Rocker shaft	16
12	73938	VALVE, Intake	4
13	74541	VALVE, Exhaust	4
14	MS13998-3	CAP, Valve, exhaust, rotator	4
15	65441	SEAT, Valve spring, lower, intake	4
16	74554	SEAT, Valve spring, lower, exhaust	4
17	LW-11795	SPRING, Valve, inner	8
18	LW-11800	SPRING, Valve, outer	8
19	LW-10076	SEAT, Valve spring, upper, exhaust, rotator	4
20	LW-10077	SEAT, Valve spring, upper, intake	4

O-360-A1LD

SECTION 3 (CONT.)  
CYLINDER, PISTON, AND VALVE TRAIN

Page 3-2 (Cont.)  
Cylinder Assembly

Ref. No.	Part No.	Description	Qty. Per Assy.
21	MS13997-3	KEY, Valve, exhaust	8
22	1102	PLUG, 1/8-27 NPT, allen hd.	4
23	60009	KEY, Valve, intake	8
24	75906	GASKET, Rocker box cover	4
25	61247	COVER, Rocker box	4
26	STD-1925	SCREW, 1/4-20 x 5/8 long, pan hd., self-lock	24

Page 3-3

Shroud Tubes, Push Rods, and Valve Rocker Assemblies

1	62922	SEAL, Shroud tube	8
2	70310	SEAL, Shroud tube	8
3	LW-11485	TUBE, Push rod, shroud	8
5	LW-13428	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
7	STD-1411	NUT, 1/4-20 plain	4
8	73434	ROD ASSY., Push	un
8	73435	ROD ASSY., Push	un
8	73436	ROD ASSY., Push	un
9	69444	ROCKER ASSY., Valve, intake	4
10	60398	BUSHING, Valve rocker, intake	4
11	74636	ROCKER ASSY., Valve, exhaust	4
12	74637	BUSHING, Valve rocker, exhaust	4
13	60401	SHAFT, Valve rocker	4
14	71481	RING, Oil seal, 3/32 dia. x 4-27/32 dia.	4
16	STD-2090	NUT, 1/2-20 plain	18
17	383-B	NUT, 3/8-24 plain	16
18	74887	SPACER, 33/64 ID x 7/8 OD x 3/8 thick	2

Page 3-4

Intercylinder Cooling Baffles

1	75339	BAFFLE ASSY., Intercylinder	2
2	71611	RETAINER, Intercylinder baffle	2

O-360-A1LD

SECTION 3 (CONT.)  
CYLINDER, PISTON, AND VALVE TRAIN

Page 3-4 (Cont.)  
Intercylinder Cooling Baffles

Ref. No.	Part No.	Description	Qty. Per Assy.
3	71610	HOOK, Intercylinder baffle	2
Page 3-5 Cylinder Drain Tubes, Exhaust Flange, and Gaskets			
1	65321	GASKET, Exhaust flange	4
2	61260	FLANGE, Exhaust, stainless	4
3	STD-35	WASHER, 5/16 plain	8
4	STD-475	WASHER, 5/16 internal lock	8
5	STD-1410	NUT, 5/16-18 plain	8
6	STD-684	NIPPLE, Straight, 3/8 ID hose	4
7	STD-1821	HOSE, 3/8 ID x 2-1/2 long	4
8	STD-1252	CLAMP, Hose, 1/2-15/16 ID x 9/16 wide	8
9	68759	TUBE ASSY., Cyl. hd. oil drain, cyl. 1	1
10	68760	TUBE ASSY., Cyl. hd. oil drain, cyl. 2	1
11	68761	TUBE ASSY., Cyl. hd. oil drain, cyl. 3-4	2

Page 3-6  
Priming System

Does not apply.

Page 3-7  
Priming System

1	1102	PLUG, 1/8-27 NPT, allen hd.	4
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Use this reference only.

SECTION 4  
MAGNETOS, MAGNETO DRIVES, AND MAGNETO KITS

NOTE: Pages 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, and 4-7 do not apply to O-360-A1LD engines. For dual magneto group parts use the following. Page 18 of this supplement illustrates the relative positions of accessories and drives used with the dual magneto system.

O-360-A1LD

SECTION 4 (CONT.)  
CRANKCASE, CRANKSHAFT, AND CAMSHAFT GROUP

Ref. No.	Part No.	Description	Qty. Per Assy.
	LW-10301	GEAR, Retainer, magneto drive	1
	LW-12136	CUSHION, Magneto drive	2
	LW-12681	GASKET, Magneto	1
	LW-385124-110	MAGNETO, Ignition system, impulse (D4LN-2021)	1
	LW-382555-11	MAGNETO, Ignition	1
	LW-384405-303	HARNES, Ignition, 3/4-20 spark plug terminal, straight fittings	1
	LW-382698	KIT, Magneto ground terminal	2
	75965	CLAMP, Magneto	2
	STD-475	WASHER, 5/16 internal lock	2
	STD-1410	NUT, 5/16-18 plain	2
	76734	ZIP STRAP	21
	STD-692	SCREW, No. 10-32	3
	STD-670	NUT, Self lock	3
	LW-89027-4	BRACKET	1
	MS21919-G12	CLAMP, Shroud tube	2
	LW-320298-3	CLIP, 2 wire	1
	LW-320297-2	CLIP, One wire for 1/4 screw	2
	LW-320298-2	CLIP, 2 wire for 1/4 screw	2
	LW-320232	CLIP, 6 wire	1
	LW-320300-1	CLIP, Four wire for no. 10-32 screw	2
	LW-320300-4	CLIP, Four wire	1
	STD-1874	SCREW, 1/4-20	3
	STD-8	WASHER, 1/4 plain	6

Page 4-8  
Spark Plug

1	1182-D4	SPARK PLUG, Champion RHM-38E	8
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SECTION 5  
ELECTRICAL COMPONENTS

NOTE: Pages 5-1, 5-2, and 5-3, and Figures 34 and 36 do not apply.

O-360-A1LD

SECTION 5 (CONT.)  
ELECTRICAL COMPONENTS

Page 5-4  
Voltage Regulators and Relays

Ref. No.	Part No.	Description	Qty. Per Assy.
1	LW-10185	REGULATOR, 12 volt, full transistor	1
	78059	OVERVOLTAGE RELAY, 12 volt	1

Page 5-5  
Alternator and Attaching Parts

1	78407	ALTERNATOR, 12V-60Amp, 3.25:1 ratio ext. ground	1
4	LW-13039	BRACKET, Alternator	1
5	73383	LOCKPLATE, 5/16 bolt x 1.00 spacing	1
6	STD-1838	BOLT, 5/16-18 x 15/16 long, hex. hd.	2
7	75380	LINK, Alternator adjusting	1
8	STD-35	WASHER, 5/16 plain	1
9	STD-1817	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.	1
10	STD-1727	WASHER, 3/4 OD x 11/32 ID x 1/8 thick	1
11	STD-1817	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.	1
12	74323	STRUT, Alternator support	1
13	STD-1817	BOLT, 5/16-18 x 3/4 long, hex. hd. dr.	1
14	STD-33	WASHER, 3/8 plain	1
15	AN6-14	BOLT, 3/8-24 x 1-37/64 long, hex. hd. , dr. end	1
16	STD-33	WASHER, 3/8 plain	un
17	STD-872	NUT, 3/8-24 slotted	1
18	STD-713	COTTER PIN	1
19	AN6-13	BOLT, 3/8-24 x 1-29/64 long, hex. hd. , dr. end	1
20	76534	SHIM, 1-1/8 OD x 13/32 ID x .005 thick	un
21	STD-33	WASHER, 3/8 plain	un
22	STD-872	NUT, 3/8-24 slotted	1
23	STD-713	COTTER PIN	1

Page 5-6  
Starter Assembly and Attaching Parts

1	76211	STARTER, 12V, 3.38:1 reduction, 12/14 pitch	1
2	LW-12083	SWITCH, Magnetic	1

O-360-A1LD

SECTION 5 (CONT.)  
ELECTRICAL COMPONENTS

Page 5-6 (Cont.)  
Starter Assembly and Attaching Parts

Ref. No.	Part No.	Description	Qty. Per Assy.
3	STD-35	WASHER, 5/16 plain	4
4	STD-475	WASHER, 5/16 internal lock	4
5	STD-2156	BOLT, 5/16-18 x 1-5/32 long, hex. hd.	1
6	STD-1410	NUT, 5/16-18 plain	3

Page 5-7  
Alternator Drive Belt

1	76026	BELT, Alternator drive, 3/8 wide	1
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SECTION 6  
INDUCTION SYSTEM

Page 6-1  
Fuel Pumps, Covers, and Attaching Parts

1	60096	GASKET, Fuel pump	1
4	75246	FUEL PUMP, Low pressure, dual diaphragm	1
5	STD-33	WASHER, 3/8 plain	2
7	STD-1882	SCREW, 3/8-16 x 1-9/32 long, socket hd., dr.	2

Page 6-2

Does not apply.

Page 6-3  
Fuel Pump Drives

3	61544	PLUNGER, Fuel pump, long	1
	LW-10296	GEAR ASSY., Crankshaft idler	1
	LW-10299	SHAFT, Crankshaft idler gear	1
4	LW-10286	GEAR ASSY., Crankshaft idler	1
	LW-10298	SHAFT, Crankshaft idler gear	1

O-360-A1LD

SECTION 6 (CONT.)  
INDUCTION SYSTEM

Page 6-4  
Does not apply.

Ref. No.	Part No.	Description	Qty. Per Assy.
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Page 6-5  
Oil Sump Assembly

1	LW-13353	GASKET, Oil sump	1
2	78915	SUMP ASSY., Oil	1
3	78914	CONNECTION, Intake pipe	4
4	61400	STUD, 1/4-20 x 1-3/16 long	4
5	68437	STUD, 5/16-18 x 1-7/8 long	4
6	STD-91	PLUG, 1/2-14 NPT, allen hd.	1
8	STD-551	PLUG, 1/2-14 NPT, sq. hd., dr.	2
9	STD-8	WASHER, 1/4 plain	28
10	STD-160	WASHER, 1/4 internal lock	20
11	STD-1204	BOLT, 1/4-20 x 15/16 long, hex. hd.	14
	STD-1419	BOLT, 1/4-20 x 1-1/8 long, hex. hd.	2
12	STD-1411	NUT, 1/4-20 plain	12
13	70485	PIPE, Intake	4
14	69603	HOSE, 1-3/4 ID x 2-3/16 OD x 1-3/4 long	4
15	STD-1269	CLAMP, Hose, 1-7/8-2-1/4 ID x 9/16 wide	8
16	71973	GASKET, 2 bolt flange, 1-7/8 ID	4
17	73346	FLANGE, Intake pipe, upper	4
18	STD-8	WASHER, 1/4-20 plain	8
19	STD-160	WASHER, 1/4 internal lock	8
20	STD-1215	BOLT, 1/4-20 x 1-1/4 long, hex. hd.	8
22	70484	SCREEN, Oil suction	1
23	STD-111	GASKET, 1.00 ID x 1-1/4 OD x 3/32 annular	1
24	LW-12545	PLUG, 5/8 hex. hd. x 1.00-20 thd.	1
	61548	NAMEPLATE	1
	STD-1901	DRIVE STUD, No. 4 x 3/16 long, rd. hd.	4

Page 6-6  
Carburetor Assembly, Gaskets, and Attaching Parts

Use column -D2B.

## O-360-A1LD

SEAL AND GASKET SET  
#75439-1

Ref. No.	Part No.	Description	Qty. Per Assy.
	1691-C	GASKET, Fuel pump pad	1
	8313	GASKET, Vacuum pump	1
	60096	GASKET, Fuel pump	1
	61156	LOCKPLATE, Crankshaft gear	1
	61165	SEAL, Tachometer	1
	61173	GASKET, Oil pressure housing	1
	61183	GASKET, Accessory adapter	1
	62224	GASKET, Magneto adapter	3
	62922	SEAL, Shroud tube	8
	65321	GASKET, Exhaust flange	4
	66224	GASKET, Carburetor	2
	68315	GASKET, Accessory drive adapter	1
	69164	GASKET, Fuel pump adapter	1
	69345	SPACER	4
	69551	GASKET, Accessory pad cover	1
	70310	SEAL, Shroud tube	8
	70455	GASKET	1
	71481	RING, Oil seal	4
	71646	LOCKPLATE	2
	71973	GASKET, Intake flange	4
	72053	GASKET, Governor drive pad	2
	72059	GASKET	1
	72075	SEAL, Oil	6
	72078	LOCKPLATE, Cam gear	2
	72091	RING, Oil seal	2
	73383	LOCKPLATE	2
	73817	LOCKPLATE, Crankshaft idler gear shaft	2
	73818	GASKET, Accessory housing	1
	74065	RING, Oil level gage seal	1
	74068	RING, Oil level gage seal	1
	75906	GASKET, Rocker box cover	4
	76510	GASKET	1
	76940	SEAL, Crankshaft oil	1
	AN901-8A	GASKET	1
	STD-111	GASKET, Annular	1
	STD-208	SEAL, Oil	1
	STD-213	SEAL, Oil, fuel pump drive	1



O-360-A1LD

SEAL AND GASKET SET (CONT.)  
#75439-1

Ref. No.	Part No.	Description	Qty. Per Assy.
	STD-294	GASKET, Annular	2
	STD-1045	GASKET, Annular	1
	STD-1763	PALNUT	4

CYLINDER, PISTON, AND RING KIT  
#76296

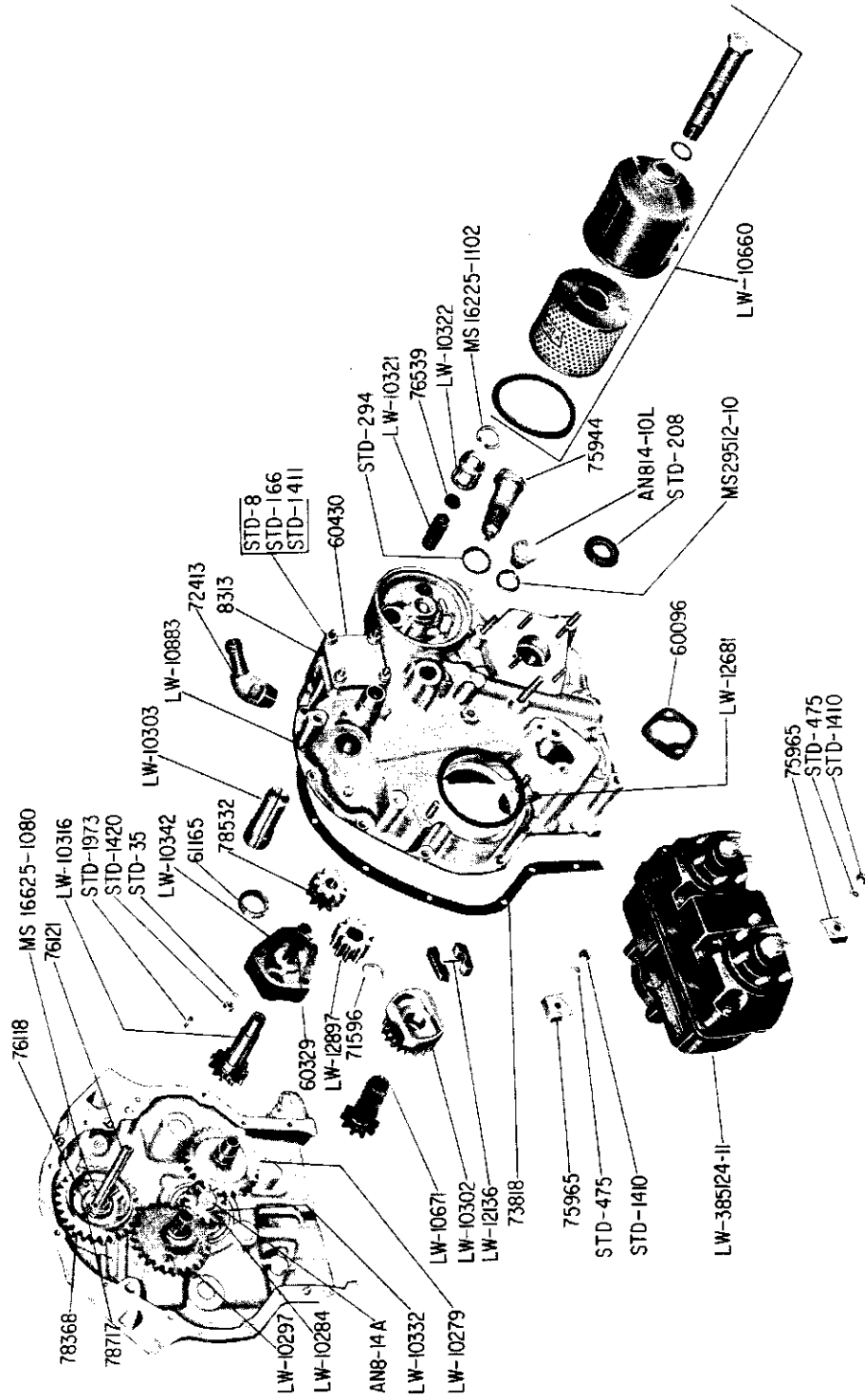
60009	KEY, Valve, intake	2
60401	SHAFT, Valve rocker	1
60828	PLUG, Piston, pin	2
61247	COVER, Rocker box	1
62922	SEAL, Shroud tube	2
65441	SEAT, Valve spring lower, intake	1
69345	SPACER, Shroud tube spring	1
69444	ROCKER ASSY. , Valve, intake	1
70310	SEAL, Shroud tube	2
71481	SEAL, Cylinder base	1
72198	PLUG	2
73938	VALVE, Intake	1
74241	RING, Piston, compression	2
74541	VALVE, Exhaust, rotator	1
74554	SEAT, Valve spring, lower, exhaust	1
74636	ROCKER ASSY. , Exhaust	1
75089	PISTON	1
75906	CAP, Valve stem, exhaust, rotator	1
LW-10076	SEAT, Valve spring, upper, exhaust, rotator	1
LW-10077	SEAT, Valve spring, upper, intake	1
LW-11775	PLUG, Piston pin	2
LW-11795	SPRING, Valve, inner	2
LW-11800	SPRING, Valve, outer	2
LW-12272	LOCKPLATE, Shroud tube	1
LW-12328	RING, Piston, oil regulating, expander	1
LW-12383	PIN, Piston	1
LW-12427	CYLINDER AND HEAD ASSY. , Nitrided	1
LW-13428	SPRING, Shroud tube	1
MS13997-3	KEY, Valve, exhaust, rotator	2

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CYLINDER, PISTON, AND RING KIT (CONT.)  
#76296

Ref. No.	Part No.	Description	Qty. Per Assy.
	MS13998-3	CAP, Valve stem, exhaust, rotator	1
	STD-1215	BOLT	2
	STD-1411	NUT, 1/4-20 plain	1
	STD-1925	SCREW	6

O-360-A1LD



ACCESSORY HOUSING AND DRIVES- DUAL MAGNETO

SUPPLEMENTAL PARTS LIST SSP1472-1

ERRATA SHEET

On Page 8, Item 7, Change Part Number

FROM: LW-385214-110  
TO: LW-385124-110

AND

FROM: LW-38255-11  
TO: LW-382555-11

SUPPLEMENTAL PARTS LIST SSP1472-1  
SUPERSEDES SSP1472

To Provide Parts Coverage for Avco Lycoming  
O-360-A1F6D Model Aircraft Engines

This supplement follows the same basic format as the original parts catalog PC-106 with which it is used.

Page numbers in this supplement conform to basic page numbers of the original catalog. Where figure reference numbers remain blank it indicates a new part or that the part was not figure referenced in the basic catalog. It may also indicate a parts addition.

Parts peculiar to the O-360-A1F6D model engine or updated part numbers are listed in this supplement. Otherwise parts reference is made to the various models in the original parts catalog for their application to the -A1F6D model engine.

O-360-A1F6D

SECTION 1  
CRANKCASE ASSEMBLY

Page 1-1

Ref. No.	Part No.	Description	Qty. Per Eng.
1	LW-12372	CRANKCASE ASSEMBLY	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6. P/N 75156 is not applicable to O-360-A1F6D model engines.

Page 1-2

6	LW-10284	GEAR, Crankshaft	1
7	LW-10332	LOCKPLATE, Crankshaft gear	1
8	AN8-14A	BOLT, 1/2-20 x 1-9/16 long	1
9	LW-13792	SEAL, Crankshaft oil	1
14	78524	SOCKET, Push rod, hyd. tappet	8
15	LW-11021	BEARING, Crankshaft	4
16	LW-13884	BEARING, Crankshaft, front	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 1-3

2	61084	SPRING, Oil pressure relief valve	1
3	STD-425	WASHER, Plain, #10 (9 pcs. maximum)	AR

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

NOTE

An adjustable oil pressure relief valve, P/N 77808 is available as an option on subject engines. See Avco Lycoming Service Instruction No. 1172

Page 1-4

1	LW-12380	CRANKSHAFT AND COUNTERWEIGHT ASSY.	1
	LW-12379	CRANKSHAFT ASSY.	1
4	STD-2078	DOWEL, 3/8 in. OD x 1/2 in. long	1
18	LW-14820	RING, Internal retaining	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

O-360-A1F6D

SECTION 1 (CONT.)  
CRANKCASE ASSEMBLY

Page 1-5

Ref. No.	Part No.	Description	Qty. Per Eng.
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This page is not applicable to O-360-A1F6D model engines. Only standard crankcase engines.

Page 1-6

6	STD-8	WASHER, Plain, 1/4 in. max. 9 pcs.	AR
7	STD-33	WASHER, Plain, 3/8 in.	3
	AN960-616L	WASHER, Plain, 3/8 in. thick, max. 3 pcs.	AR
9	AN6-34A	BOLT, Hex. hd., 3/8-24 x 3-37/64 in. long	2

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 1-7

For all parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 1-8

	72059	GASKET, Oil level gage	1
3A	LW-14758	GAGE ASSEMBLY, Oil level	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 1-9

10	LW-12920	TUBE ASSY., Propeller governor oil line	1
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For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

SECTION 2  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-1

This page does not apply to O-360-A1F6D model engines.

Page 2-2

1	73818	GASKET, Accessory housing	1
2	LW-10885	HOUSING ASSEMBLY, Accessory	1
15	25C-12	STUD, 1/4-20 x 1-1/2 in. long	4
	67528	STUD, 5/16-18 x 1-5/8 in. long	2
	LW-12589	INSERT, Heli-coil, 5/8-18 x 3/8 in. long	1
	31C-17	STUD, 5/16-18 x 17/32 in. long	4

O-360-A1F6D

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-2 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Eng.
	MS124703	INSERT, Heli-coil, 3/4-16 x 1-1/8 in. long	1
	LW-10341	INSERT, Heli-coil, 1.00-14 x 3/8 in. long	1
	1102	PLUG, 1/8-27 NPT, allen hd.	1

NOTE

Parts listed under page 2-2 replace page 2-2 of the basic catalog in its entirety.

Page 2-3

LW-10342	BODY, Oil pump	1
78532	IMPELLER ASSY., Oil pump driven	1
LW-14040	GEAR ASSY., Oil pump drive	1
60746	IMPELLER, Oil pump driving	1
STD-35	WASHER, Plain, 5/16 in.	3
STD-2150	BOLT, 5/16-18 x 1-3/4 in. long	3
LW-14260	SEAL, Oil, tachometer drive	1
STD-8	WASHER, Plain, 1/4 in.	12
STD-160	WASHER, Internal lock, 1/4 in.	12
STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long	9
STD-1875	BOLT, Hex. hd., 1/4-20 x 13/16 in. long	2
STD-1215	BOLT, Hex. hd., 1/4-20 x 1-1/4 in. long	1

NOTE

Parts listed above replace all parts listed on page 2-3 in basic parts catalog. Above listing complete for O-360-A1F6D model engines.

Page 2-4

1	AN844-10D	ELBOW, Pipe thread, 5/8 in. ID hose, 45° (Assemble in accessory housing)	1
2	MS29512-10	SEAL, Oil, 0.097 in. section x 0.706 ID	1
3	AN814-10L	PLUG, Port, 7/8-14 (Assemble figure reference numbers 2 and 3 in accessory hsg. at accessory oil return boss)	1



O-360-A1F6D

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-4 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Eng.
4	STD-294	GASKET, 7/8 in. OD x 5/8 in. ID x 3/32 in. annular	2
5	1540	PLUG, Thermometer well (Assemble in accessory housing at oil temp. and oil pressure bosses)	2
6	MS29512-10	SEAL, Oil, 0.097 in. section x 0.706 ID	2
7	LW-12903	REDUCER, 3/8 in. tube, to 5/8 in. tube (Assemble in accessory housing at oil cooler inlet and outlet bosses)	2

NOTE

Parts listed under page 2-4 replace all parts listed on page 2-4 of the basic parts catalog. Above listing is complete for O-360-A1F6D model engines.

Page 2-5

1	LW-10321	SPRING, Oil filter bypass valve	1
2	76539	SEAT, Oil relief valve	1
3	LW-10320	SLEEVE, Oil filter bypass valve	1
4	MS16625-1100	RING, Internal retaining	1
5	LW-10660	OIL FILTER ASSEMBLY	1
6	75944	VALVE ASSY., Temp. control oil cooler bypass	1

NOTE

The above listed parts replace all parts listed on page 2-5 of basic parts catalog. Above listing is complete for O-360-A1F6D model engines.

Page 2-6

LW-10305	GEAR ASSY., Accessory driven	1
71596	WASHER, Accessory driven gear	1
STD-208	SEAL, Oil, 7/8 in. ID x 1-1/2 in. OD x 5/16 in. wide	1
8313	GASKET, Vacuum pump	1
60430	COVER, Vacuum pump pad	1
STD-8	WASHER, Plain, 1/4 in.	4
STD-160	WASHER, Internal lock, 1/4 in.	4
STD-1411	NUT, Plain, 1/4-20	4

Parts listed above constitute vacuum pump drive for O-360-A1F6D model engines.

O-360-A1F6D

SECTION 2 (CONT.)  
ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-7

Ref. No.	Part No.	Description	Qty. Per Eng.
	LW-12914	GEAR ASSY., Accessory driven	1
	71596	WASHER, Accessory driven gear	1
	72053	GASKET, Governor	2
	LW-12347	PLATE, Gov. drive	1
	72378	COVER, Governor drive	1
	STD-35	WASHER, Plain, 5/16 in.	AR
	STD-475	WASHER, Internal lock, 5/16	4
	STD-1410	NUT, Plain, 5/16-18	4

Parts listed above constitute propeller governor drive for O-360-A1F6D model engines.

Page 2-8

This page does not apply to O-360-A1F6D model engines.

Page 2-9

This page does not apply to O-360-A1F6D model engines.

SECTION 3  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-1

1	LW-11750	CONNECTING ROD ASSEMBLY	4
2	LW-13923	BUSHING, Connecting rod upper	4
3	75061	BOLT, Connecting rod	8
4	LW-12186	NUT, Connecting rod bolt	8
7	LW-14078	PIN, Piston	4

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 3-2

1	LW-12427	CYLINDER ASSEMBLY	4
4	76943	GUIDE, Valve, intake	4
5	77160	GUIDE, Valve, exhaust	4
10	MS20823-6D	ELBOW, 45°, 3/8 in. flared tube	4
16	LW-13323	SEAT, Valve spring, lower exhaust	4
17	LW-11795	SPRING, Valve inner	4
18	LW-11800	SPRING, Valve outer	4
22	1102	PLUG, 1/8-27 NPT	8

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

O-360-A1F6D

SECTION 3 (CONT.)  
CYLINDER, PISTON AND VALVE TRAIN

Page 3-3

Ref. No.	Part No.	Description	Qty. Per Eng.
1	62922	SEAL, Shroud tube	8
3	LW-11485	TUBE, Push rod shroud	8
5	LW-13428	SPRING, Shroud tube	4
6	LW-12272	LOCKPLATE, Shroud tube	4
13	LW-13790	SHAFT, Valve rocker	4
	LW-12892	THRUST BUTTON, Rocker shaft	8
16	STD-2090	NUT, Plain, 1/2-20	18
18	74887	SPACER, 33/64 in. ID x 7/8 in. OD x 3/8 in. thick	2

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6, except figure reference nos. 4, 5 and 6.

Page 3-4

For all parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 3-5

8	STD-2174	CLAMP, Hose, 1/2 to 3/4 in. ID x 5/8 in. wide	8
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For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A2E.

NOTE

Figure reference no. 2, P/N 61260, is not applicable to O-360-A1F6D model engines.

Page 3-6

This page does not apply to O-360-A1F6D model engines.

Page 3-7

8	1102	PLUG, Allen hd., 1/8-27 NPT	4
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There are no priming lines shipped with O-360-A1F6D model engines. P/N 1102 plugs are installed in each cylinder head.

O-360-A1F6D

SECTION 4  
MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

Page 4-1

Ref. No.	Part No.	Description	Qty. Per Eng.
1	LW-13643	GEAR RETAINER, Magneto drive	1
	LW-13641	CUSHION, Magneto drive	2
5	LW-12681	GASKET, Magneto	1
7	LW-385124-110	MAGNETO, Ignition system, impulse, model D4LN-2021	1
	LW-382555-11	MAGNETO, Ignition	1
	LW-384405-303	HARNESS, Ignition	1
9	STD-475	WASHER, Internal lock, 5/16 in.	2
10	STD-1410	NUT, Plain, 5/16-18	2
11	75965	CLAMP, Magneto	2
	LW-382698	KIT, Magneto ground terminal	1

Page 4-2

This page does not apply to O-360-A1F6D model engines.

Page 4-3

This page does not apply to O-360-A1F6D model engines.

Page 4-4

This page does not apply to O-360-A1F6D model engines.

Page 4-5

This page does not apply to O-360-A1F6D model engines.

Page 4-6

This page does not apply to O-360-A1F6D model engines.

Page 4-7

76734	ZIP STRAPS	21
STD-692	SCREW, #10-32	3
STD-670	NUT, Self-locking, #10-32	3

O-360-A1F6D

SECTION 4 (CONT.)  
MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

Page 4-7 (Cont.)

Ref. No.	Part No.	Description	Qty. Per Eng.
	LW-14874	BRACKET, Extension	1
	MS21919-G12	CLAMP, Shroud tube	2
	LW-320298-3	CLIP, Two wire	1
	LW-320297-2	CLIP, One wire for 1/4 in. screw	2
	LW-320298-2	CLIP, Two wire for 1/4 in. screw	2
	LW-320232	CLIP, Six wire	1
	LW-320300-1	CLIP, Four wire for #10-32 screw	2
	73971	CLIP, 1/2 in. ID for 1/4 in. screw	1
	STD-1874	SCREW, 1/4 x 20	3
	STD-8	WASHER, 1/4 plain	6

NOTE

The parts listed under page 4-7 provide for complete attachment to the engine for P/N LW-384405-303 ignition harness.

Page 4-8

1	1182-D4	SPARK PLUG, All weather, 3/4-20 thread (Champion P/N RHM-38E)	8
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SECTION 5  
ELECTRICAL COMPONENTS

Page 5-1

This page does not apply to O-360-A1F6D model engines.

Page 5-2

This page does not apply to O-360-A1F6D model engines.

Page 5-3

This page does not apply to O-360-A1F6D model engines.

Page 5-4

This page does not apply to O-360-A1F6D model engines.

O-360-A1F6D

SECTION 5 (CONT.)  
ELECTRICAL COMPONENTS

Page 5-5

Ref. No.	Part No.	Description	Qty. Per Eng.
	76906	BRACKET, Alternator	1
	73383	LOCKPLATE, 5/16 in. bolt x 1.00 in. spacing	1
	STD-1838	BOLT, Hex. hd., 5/16-18 x 15/16 in. long	2
	LW-10729	LINK, Alternator adjusting	1
	STD-35	WASHER, Plain, 5/16 in.	1
	STD-1858	BOLT, Hex. hd., drilled, 5/16-18 x 29/32 in. long	2
	76908	STRUT, Alternator support	1

NOTE

Above listed parts are to attach Ford alternator to O-360-A1F6D model engines. Engines are shipped less alternator.

Page 5-6

1	LW-14207	STARTER, 12V	1
	STD-2156	BOLT, 5/16-18 x 1-5/32 in. long	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6D.

Page 5-7

This page does not apply to O-360-A1F6D model engines.

SECTION 6  
INDUCTION SYSTEM

Page 6-1

For all parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 6-2

This page does not apply to O-360-A1F6D model engines.

O-360-A1F6D

SECTION 6 (CONT.)  
INDUCTION SYSTEM

Page 6-3

Ref. No.	Part No.	Description	Qty. Per Eng.
1	LW-12911	GEAR ASSY. CRANKSHAFT IDLER	1
2	LW-10286	GEAR ASSY. CRANKSHAFT IDLER	1
3	61544	PLUNGER, Fuel pump, long	1

The above listed parts comprise the fuel pump drive for O-360-A1F6D model engines.

Page 6-4

61548	PLATE, Name	1
STD-1901	DRIVE STUD, No. 4 x 3/16 in. long	4

No other parts on this page are applicable to O-360-A1F6D model engines.

Page 6-5

1	LW-13353	GASKET, Oil sump	1
2	78915	SUMP ASSY., Oil	4
3	78914	CONNECTION, Intake pipe	4
11	STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long	14
	STD-1419	BOLT, Hex. hd., 1/4-20 x 1-1/8 in. long	2
24	LW-12545	PLUG, 5/8 in. hex. hd., x 1.00-20 thread	1

For all other parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Page 6-6

For all parts on this page, applicable to O-360-A1F6D model engines, use column headed O-360-A1F6.

Service kits are available as follows:

SEAL AND GASKET SETS P/N LW-12945

CYLINDER, PISTON AND RING SETS P/N 76296

**SUPPLEMENTAL PARTS LIST NO. SSP 2571**

**To provide parts coverage for Avco Lycoming**

**LO-360-A2D MODEL AIRCRAFT ENGINES**

This supplement is arranged in the same basic format as the original catalog PC-106. Page numbers listed in the supplement conform to basic page numbers in the original catalog. Figure reference numbers also conform to those listed in PC-106. Where a figure reference is left blank, it denotes a new part or that the part was not figure referenced in the basic catalog. When a particular page in the basic catalog is not applicable to the LO-360-A2D, it is so designated in this supplement.



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LO-360-A2D  
SECTION 1  
CRANKCASE, CRANKSHAFT AND CAMSHAFT

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
Page 1-1									
1	LW-12047						CRANKCASE ASSEMBLY	1	
NOTE									
LW-12047 is a wide cylinder flange crankcase. Use column under O-360-A2G, marked WCF, for LO-360-A2D model engines.									
Page 1-2									
1	LW-12050						CAMSHAFT ASSEMBLY	1	
6	75158						SHAFT, Crankshaft idler gear	1	
7	71646						LOCKPLATE, 5/16 in. bolt x 1-3/4 spacing	2	
8	STD-1926						BOLT, Hex. hd., 5/16-18 x 5/8 in. long	3	
	STD-1410						NUT, Plain, 5/16-18	1	
14	78524						SOCKET, Push rod, hydraulic tappet	8	
Item 16 use alternate bearing LW-11021 (4)									
Page 1-3									
LO-360-A2D model engines do not employ an adjustable oil pressure relief valve.									
Page 1-4									
1	LW-12049						CRANKSHAFT ASSEMBLY	1	
For all other parts except that listed above, use column under O-360-A2G for LO-360-A2D model engines.									
Page 1-5									
This page does not apply to LO-360-A2D model engines.									
Page 1-6									
	AN960-616L						WASHER, Plain, 3/8 in. (thick), 3 pcs. max.	AR	
	AN6-34A						BOLT, Hex. hd., 3/8-24 x 3-37/64 in. long	1	
For all other crankcase attaching parts, use column headed O-360-A2D.									
Page 1-7									
1	LW-12051						SUPPORT ASSEMBLY, Starter ring gear (12/14 pitch, 3 grooves)	1	
2	LW-10551						GEAR, Starter ring, 12/14 pitch	1	
Page 1-8									
Figure Reference Numbers 1, 1A, 2 and 3 do not apply to LO-360-A2D model engines.									
3A	LW-10615						GAGE ASSEMBLY, Oil	1	

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LO-360-A2D  
SECTION 1  
CRANKCASE, CRANKSHAFT AND CAMSHAFT (CONT.)

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

Page 1-8 (Cont.)

4	72312	RING, Oil seal, 1.00 in. ID x 1/8 in. section					1	
5	77962	ADAPTER, Oil level gage					1	
6	74314	PLUG, Engine oil level gage					1	
7	STD-366	PIN, 1/16 in. dia. x 7/16 in. long					1	
8	74217	RING, Plug, oil level gage					1	
9	STD-406	DOWEL, 3/16 in. dia. x 1/2 in. long					2	

Page 1-9

This page does not apply to LO-360-A2D model engines.

SECTION 2

ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-1

This page does not apply to LO-360-A2D model engines.

Page 2-2

1	LW-12052	HOUSING ASSEMBLY, Accessory					1	
9	61265	STUD, Drilled, 5/16-18 x 2-3/16 in. long					2	
	31CD-22	STUD, Drilled, 5/16-18 x 2-3/4 in. long					1	
14	1102	PLUG, Allen head, 1/8-27 NPT					3	
	STD-783	PLUG, Allen head, 1/4-18 NPT					1	
	76119	SHIELD, Accessory breather, oil					1	

For all other accessory housing parts, except those listed above, use column headed O-360-A1D and parts listed under letters WCF.

Page 2-3

1	LW-11839	BODY, Oil pump					1	
	78532	IMPELLER ASSEMBLY, Oil pump driven					1	
	78530	SHAFT, Oil pump idler					1	
	77272	IMPELLER, Oil pump driven					1	
	75288	SHAFT, Oil pump drive					1	
	77313	IMPELLER, Oil pump driving					1	
	STD-1973	KEY, Woodruff, 1/8 in. x 3/4 in.					1	
	STD-1227	WASHER, Copper, 1/4 in.					2	
	STD-1904	BOLT, Hex. hd., dr. end, 1/4-20 x 2-3/4 in. long					2	
	STD-8	WASHER, Plain, 1/4 in.					2	
	STD-1420	NUT, Slotted, 5/16-18					3	
	STD-1409	NUT, Slotted shear, 1/4-20					2	

Figure reference numbers 8 thru 14 apply to LO-360-A2D model engines.

Page 2-4

Use column under O-360-A1H for LO-360-A2D. In addition, figure reference number 6 is also used.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LO-360-A2D  
SECTION 2  
ACCESSORY HOUSING AND ACCESSORY DRIVES (CONT.)

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
Page 2-5									
10	LW-10269						VALVE ASS'Y., Temp. control, oil cooler by-pass	1	
							Use column under O-360-A2G for LO-360-A2D model engines.		
Page 2-6									
							Use column under O-360-C2D for LO-360-A2D model engines.		
Page 2-7									
							Use column under O-360-A2D for LO-360-A2D model engines.		
Page 2-8									
							Page 2-8 references conventional or standard crankcase engines and does not apply to LO-360-A2D model engines.		
Page 2-9									
							This page does not apply to LO-360-A2D model engines.		
SECTION 3									
CYLINDER, PISTON AND VALVE TRAIN									
Page 3-1									
1	LW-11750						CONNECTING ROD ASSEMBLY	4	
3	75061						BOLT, Connecting rod	8	
							For all parts other than those listed above, use column under O-360-A2G for LO-360-A2D model engines.		
Page 3-2									
17	LW-11795						SPRING, Valve inner	8	
18	LW-11800						SPRING, Valve outer	8	
							For all other cylinder parts other than those listed above, use column under O-360-A2G for LO-360-A2D model engines.		
Page 3-3									
3	LW-11485						TUBE, Push rod shroud	8	
16	STD-2090						NUT, Plain, 1/2-20	18	
18	74887						SPACER, 33/64 ID x 7/8 OD x 3/8 in. thick	2	
							Use column under O-360-A2G for all other parts on Page 3-3 except those listed above for LO-360-A2D. LO-360-A2D model engines do not employ cylinder hold down plates.		

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LO-360-A2D  
SECTION 3  
CYLINDER, PISTON AND VALVE TRAIN (CONT.)

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
Page 3-4									
Use column under O-360-A2G model engines for LO-360-A2D model engines.									
Page 3-5									
Use column under O-360-A1F6 for LO-360-A2D model engines.									
Page 3-6									
This page is not applicable to LO-360-A2D model engines.									
Page 3-7									
Use column under O-360-C1C for LO-360-A2D model engines.									
SECTION 4									
IGNITION SYSTEM									
Page 4-1									
7	LW-12053						MAGNETO, S4RN-204 (Elec. Tach. Pick-up)	1	
	LW-12054						MAGNETO, S4RN-200, Retard breaker	1	
For all other parts except those listed above, use column under O-360-C1C marked WCF for LO-360-A2D model engines. Magneto Kits P/N's 71574 and 71571 are applicable to LO-360-A2D model engines.									
Page 4-2									
Use column under O-360-A2D marked WCF for LO-360-A2D model engines.									
Pages 4-3 thru 4-6									
These pages do not apply to LO-360-A2D model engines.									
Page 4-7									
	STD-696						WASHER, Thin, 1/4 in. plain, 2 max.		AR
For all other parts use column under O-360-C1A for LO-360-A2D model engines.									
Page 4-8									
1	1182-F3						SPARK PLUG, (AC-SR88)	8	

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

LO-360-A2D  
SECTION 5  
ELECTRICAL COMPONENTS

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

Pages 5-1 thru 5-4

These pages do not apply to LO-360-A2D model engines.

Page 5-5

1	LW-12059	ALTERNATOR, (12v - 60amp) w/thermocouples					1	
2	LW-10512	PULLEY, Alternator					1	

Use column under O-360-A4A marked WCF for LO-360-A2D model engines.

Page 5-6

1	LW-10556	STARTER ASSEMBLY, (12v) 12/14 pitch (3.38:1 internal reduction)					1	
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Use column under O-360-A2G for all starter attaching parts and magnetic switch for LO-360-A2D model engines.

Page 5-7

This page is not applicable to LO-360-A2D model engines.

SECTION 6

INDUCTION SYSTEM

Page 6-1

Use column under O-360-A2G and marked WCF for LO-360-A2D model engines.

Page 6-2

This page does not apply to LO-360-A2D model engines.

Page 6-3

Use column under O-360-A2A for LO-360-A2D model engines. Figure reference numbers 5 thru 8 are not applicable to LO-360-A2D model engines.

Page 6-4

This page is not applicable to LO-360-A2D model engines.

Page 6-5

2	78915	SUMP ASSEMBLY, Oil					1	
3	78914	CONNECTION, Intake pipe					4	
11	STD-1204	BOLT, Hex. hd., 1/4-20 x 15/16 in. long					14	
	STD-1419	BOLT, Hex. hd., 1/4-20 x 1-1/8 in. long					2	

For all other parts except those listed above, use column under O-360-A2D for LO-360-A2D model engines.

Page 6-6

Use column under O-360-A4A and marked WCF for LO-360-A2D model engines.

NOTE

Carburetor, P/N 71098 is not used on LO-360-A2D model engines.

**SUPPLEMENTAL PARTS LIST NO. SSP 2470**

**To provide parts coverage for Avco**

**Lycoming O-360-A4G model aircraft engine**

This supplement is arranged in the same basic format as the original catalog PC-106, Publication Date, August, 1970. Page numbers listed in the supplement conform to basic page numbers of the original catalog. Figure reference numbers also conform to those listed in PC-106, Publication Date, August, 1970. Where a figure reference is left blank, it denotes a new part or that the part was not figure referenced in the basic catalog. When a particular page in the basic catalog is not applicable to the O-360-A4G, it is so designated in this supplement.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST.

O-360-A4G  
SECTION 1  
CRANKCASE, CRANKSHAFT, CAMSHAFT

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

Page 1-1

Use all parts figure referenced for O-360-A4A for model O-360-A4G

Page 1-2

14	78524						SOCKET, Push Rod, hydraulic tappet	8	
16	77044						BEARING, Crankshaft Front	2	

Use all other parts figure referenced for O-360-A4A, except those listed above

Page 1-3

Use figure reference numbers 1 thru 5 for O-360-A4G

Page 1-4

1	LW-11153						CRANKSHAFT ASSEMBLY	1	
---	----------	--	--	--	--	--	---------------------	---	--

Use all other parts figure referenced for O-360-A2E except for that listed above and STD-1211.

Page 1-5

Page 1-5 does not apply to O-360-A4G

Page 1-6

7	AN950-616L						WASHER, Plain - Thick (3 max.)	AR	
	STD-33						WASHER, Plain (3 max)	AR	

Use all other parts figure referenced for O-360-A4A for O-360-A4G except those listed above

Page 1-7

1	77579						SUPPORT ASSY., Starter Ring Gear, 12/14 pitch	1	
2	72566						GEAR, Starter Ring, 12/14 pitch	1	

Page 1-8

Use figure referenced numbers for O-360-A2G for O-360-A4G

Page 1-9

This page does not apply to O-360-A4G

SECTION 2

ACCESSORY HOUSING AND ACCESSORY DRIVES

Page 2-1

This page does not apply to O-360-A4G

Page 2-2

Use all parts figure referenced for O-360-A2G for O-360-A4G

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST.

O-360-A4G  
SECTION 2 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
Page 2-3									
1	78528						BODY ASSEMBLY, Oil Pump	1	
2	78530						SHAFT, Oil Pump Idler	1	
5	75288						SHAFT, Oil Pump Drive	1	
6	78532						IMPELLER ASSEMBLY, Oil Pump Driven	1	
7	77272						IMPELLER, Oil Pump Driven	1	
	77313						IMPELLER, Oil Pump Driving	1	
	STD-1973						KEY, 1/8 in. X 3/4 in. Dia. Woodruff	1	

Use all other parts figure referenced for O-360-A2G for O-360-A4G, except those listed above

Page 2-4

Use parts figure referenced for O-360-A2G for O-360-A4G except STD-294

Page 2-5

10	LW-10269						VALVE ASSEMBLY, Temp. Control, oil cooler by-pass (alternate)	1	
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Use all other parts referenced for O-360-A2G for O-360-A4G

Page 2-6

This page does not apply to O-360-A4G

Page 2-7

Use parts figure referenced for O-360-A2G for O-360-A4G

Page 2-8

This page does not apply to O-360-A4G

Page 2-9

This page does not apply to O-360-A4G

SECTION 3

CYLINDER, PISTON AND VALVE TRAIN

Page 3-1

3	75061						BOLT, Connecting Rod	8	
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Use all other parts figure referenced for O-360-A2G for IO-360-A4G, except that listed above

Page 3-2

18	LW-11800						SPRING, Valve, outer	8	
----	----------	--	--	--	--	--	----------------------	---	--

Use all other parts figure referenced for O-360-A2G, for O-360-A4G, except that listed above

Page 3-3

3	LW-11485						TUBE, Push Rod Shroud	8	
18	74887						SPACER, 33/64 in. ID X 7/8 in. OD X 3/8 in. thick	2	



AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360-A4G  
SECTION 3 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT

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

Use all other parts figure referenced for O-360-A2G for O-360-A4G, except those listed above

Page 3-4

Use parts referenced for O-360-A2G for O-360-A4G

Page 3-5

Use parts referenced for O-360-A2G for O-360-A4G

Page 3-6

This page does not apply to O-360-A4G

Page 3-7

2	61581-9	TUBE ASSY., Primer 16-11/16 in. Long, Cyl. # 1 and 2					2	
3	61581-2	TUBE ASSY, Primer 11-11/16 in. Long, Cyl. # 3 and 4					2	
4	61581-26	TUBE ASSY., Primer 13-7/16 in. Long Inter. left					1	
5	61581-18	TUBE ASSY., Primer 10-5/16 in. Long Inter. right					1	
6	62254	CLIP, 3/16 ID for 1/4 in. Dia. Screw, cushion type					4	
7	71910	CLAMP, 1-3/4 in. ID with 1/4 in. Dia. Offset					4	
8	STD-553	SCREW, Rd. Hd., #6-32 x 1/2 in. long					4	
9	AN365-632C	NUT, Self-Locking, #6-32					4	
10	STD-853	TEE, Union, 1/8 in. tube					3	
11	74225	NIPPLE ASSEMBLY, Primer					4	

SECTION 4

MAGNETOS, MAGNETO DRIVES AND MAGNETO KITS

Page 4-1

Use parts figure referenced for O-360-A2G for O-360-A4G

NOTE: Time magnetos to engine, with centerline of magnetos 5°-20° below horizontal center line of engine.

Page 4-2

This page does not apply to O-360-A4G

Page 4-3

This page does not apply to O-360-A4G

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360-A4G  
SECTION 4 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT

REF. NO.	PART NUMBER	DESCRIPTION					QTY. PER ENG.	MODEL USAGE
		1	2	3	4	5		
Page 4-4								
This page does not apply to O-360-A4G								
Page 4-5								
This page does not apply to O-360-A4G								
Page 4-6								
9	76754	PLATE, Spark Plug Cable Ign. Thru Baffle					2	
Use all other parts figure referenced for O-360-A2G for O-360-A4G, except that listed above								
17	76734	ZIP STRAPS					8	
18	68604	CLAMP, Rubber Dip (one wire)					4	
19	71824	CLAMP, Rubber Dip (two wire)					4	
20	73050	CLAMP, Rubber Dip (three wire)					5	
21	STD-8	WASHER, Plain, 1/4 in.					9	
22	40239	PROTECTOR, Ign. Cable (assemble on top leads)					4	
23	LW-10815	BRACKET, Support Clamp, 90° twist (magnetos)					2	
24	72815	BRACKET, Twist					3	
25	73152	BRACKET, straight					2	
26	STD-692	SCREW, Rd. Hd., #10-32					7	
27	STD-425	WASHER, Plain, #10					7	
28	STD-670	STOP NUT, Elastic, #10-32					7	
29	STD-160	WASHER, Internal Lock, 1/4 in.					8	
30	AN500-416-12	SCREW, 1/4-20 X 3/4 In. Long					1	
31	STD-1411	NUT, Plain, 1/4-20					1	
32	AN500-416-18	SCREW, 1/4-20 X 1-1/8 In. Long					1	
33	STD-696	WASHER, Plain, thin, 1/4 in.					AR	

NOTE: Parts reference numbers 17 thru 33 are attaching parts for cable assy., P/N LW-10177 and are not illustrated

Page 4-7

Because of basic differences this page does not apply to O-360-A4G. Use this supplement, Page 4-6 for O-360-A4G.

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360-A4G  
SECTION 4 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
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Page 4-8

Use 1182-B3 Champion Spark Plug P/N REM-40-E 8

SECTION 5

ELECTRICAL COMPONENTS

Page 5-1

This page does not apply to O-360-A4G

Page 5-2

This page does not apply to C-360-A4G'

Page 5-3

This page does not apply to O-360-A4G

Page 5-4

This page does not apply to O-360-A4G

Page 5-5

This page does not apply to O-360-A4G

Page 5-6

Use all parts figure referenced for O-360-A2G for O-360-A4G, except use (4) STD-475 lockwashers

Page 5-7

This page does not apply to O-360-A4G

SECTION 6

INDUCTION SYSTEM

Page 6-1

Use parts figure referenced for O-360-A2G for O-360-A4G

Page 6-2

This page does not apply to O-360-A4G

Page 6-3

Use parts figure referenced for O-360-A2G for O-360-A4G except figure references 5, 6, 7 and 8

Page 6-4

This page does not apply to O-360-A4G

AVCO LYCOMING AIRCRAFT ENGINE GROUP ASSEMBLY PARTS LIST

O-360-A4G  
SECTION 6 (CONT.)  
CRANKCASE, CRANKSHAFT, CAMSHAFT

REF. NO.	PART NUMBER	1	2	3	4	5	DESCRIPTION	QTY. PER ENG.	MODEL USAGE
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Page 6-5

Use parts figure referenced for O-360-A2G for O-360-A4G

Page 6-6

1	77154						GASKET, Carburetor	1	
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Use all other parts figure referenced for O-360-A2G for O-360-A4G except that listed above

SECTION 8

Page 8-4

Use parts list on page 8-4 for Marvel Schebler Carburetor, Model HA-6, P/N A10-5045, for O-360-A4G

Page 8-10

Use parts list on page 8-10 for Bendix Magnetos, Models S4LN-1209 and S4LN-1227, P/N's 10-349305-1 and 10-349365-2 for O-360-A4G

Page 8-12

Use parts list on page 8-12 for Prestolite Starter, P/N MZ-4206 for O-360-A4G

SECTION 9

Page 9-4

Use Cylinder, Piston and Ring King, Avco Lycoming P/N 76296 for O-360-A4G