

TELEDYNE CONTINENTAL[®] AIRCRAFT ENGINE
SERVICE BULLETIN
Compliance Will Enhance Safety

CATEGORY 3

SB96-4

FAA APPROVED

SUBJECT: IMPROVED OIL PUMP GEARS AND SUCTION SCREENS

PURPOSE: To inform customers of the availability of improved oil pump gears and oil suction screens. The oil pump gear and oil pump drive gear have been improved to provide structural redundancy. The oil suction screens have been improved to enhance oil filtration.

COMPLIANCE: Installation of these parts is required at engine overhaul or anytime the subject parts require replacement.

MODELS AFFECTED: All O-300, IO-360, TSIO-360 and LTSIO-360 model engines. See "NOTE" for exceptions.

OIL PUMP GEARS - Reference Figure 1.

The following list provides new oil pump drive gear and oil pump gear part numbers and applicable engine models. The installation of these oil pump drive gears will satisfy the compliance requirement of TCM Service Bulletin CSB96-5 and utilize the same identification groove.

The new oil pump drive gear and oil pump gear must go into service together and must not be used with earlier production gears.

ENGINE MODEL	DESCRIPTION	PART NUMBER
All O-300's, IO-360's and TSIO-360's.	Gear, Oil Pump Drive	654210
All LTSIO-360's	Gear, Oil Pump Drive	654210-1
All O-300's, IO-360's, TSIO-360's and LTSIO-360's	Gear, Oil Pump	653814* 653814-1**

* - Must be used in oil pump chambers that have a measured depth of .747 - .745.

** - Must be used in oil pump chambers that have a measured depth of .660 - .658.

NOTE: THESE GEARS CANNOT BE USED IN THE EARLY STYLE O-300 AND IO-360-A CRANKCASE COVER ASSEMBLIES THAT UTILIZED THE SQUARE DRIVE OIL PUMP GEAR.

ISSUED			REVISED			 TELEDYNE CONTINENTAL MOTORS P.O. Box 90 • MOBILE ALABAMA 36601 334-438-3411	PAGE NO	REVISION
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OIL PUMP GEAR, PART NUMBERS 653814, 653814-1

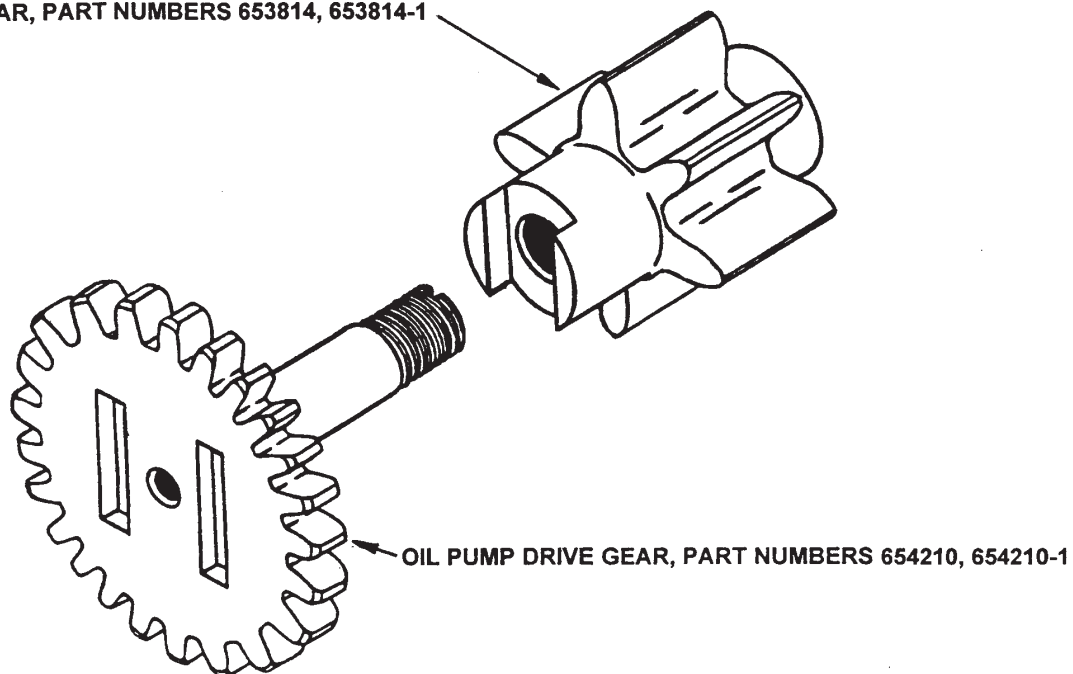


FIGURE 1. OIL PUMP DRIVE GEAR AND OIL PUMP GEAR

OIL SUCTION SCREEN - Reference Figure 2.

The following list provides new oil suction screen part numbers and applicable engine models. These oil suction screens utilize wire mesh rather than a perforated tube to provide improved filtration. Identification of these screens is accomplished as indicated in Figure 2.

ENGINE MODEL	DESCRIPTION	PART NUMBER
All O-300's	Screen, Oil Suction	653986
All IO-360's, TSIO-360's and LTSIO-360's	Screen, Oil Suction	653658

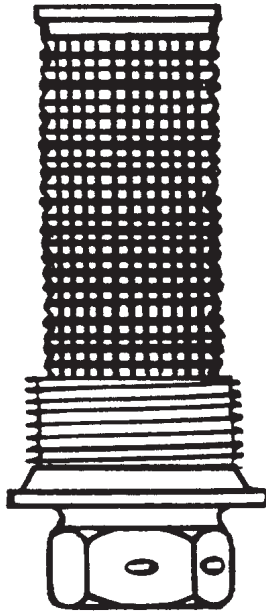
Contact your TCM Distributor to order these improved gears and screens.

AFFECTED PUBLICATIONS:

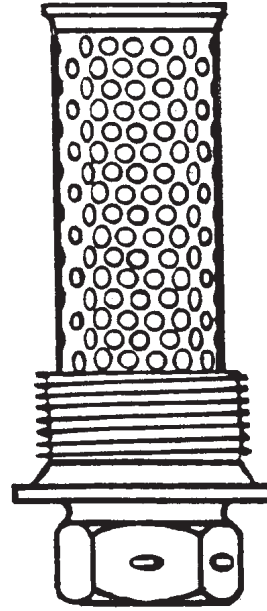
Insert a copy of this service bulletin into the appropriate section of the following TCM manuals:

- Form # X30014, C-125, C-145 & O-300 Service Parts Catalog.
- Form # X30595A, IO-360 Series Parts Catalog.
- Form # X30597A, TSIO-360 & LTSIO-360 Series Parts Catalog.

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WIRE MESH SCREEN
PART NUMBERS 653658, 653986



PERFORATED TUBE SCREEN
PART NUMBERS 633272, 649470, 649471
652669, 652670

FIGURE 2. OIL SUCTION SCREENS

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