

MANDATORY
SERVICE BULLETIN

DATE: October 2, 2001

Service Bulletin No. 545A
(Supersedes Service Bulletin No. 545)
Engineering Aspects are
FAA ApprovedSUBJECT: **Part I.** Oil Filler Tube Inspection/Replacement
Part II. Kit Installation ModificationMODELS AFFECTED: I. All Textron Lycoming TIO-540-AJ1A and IO-540-AC1A5 aircraft engines shipped from the factory before October 30, 2000, unless Kit P/N 05K23081 has been installed.
II. All Textron Lycoming TIO-540-AJ1A and IO-540-AC1A5 aircraft engines that have had Kit P/N 05K23081 installed before May 1, 2001.TIME OF COMPLIANCE: I. Inspect within the next 10 hours of operation and replace within the next 50 hours of operation.
II. Inspect at next oil change and modify installation, if required.**PART I**

It has been determined that the existing oil filler tube installation could allow the clamp holding the tube to exert downward stress. This could result in damage to the filler tube.

In order to insure the structural integrity of the oil filler tube, it is necessary to inspect for gaps, openings, or damage to the tube and for the security of the clamp that supports the oil filler tube.

Since October 30, 2000, a new oil filler tube/dipstick and clamp arrangement has been installed on all TIO-540-AJ1A and IO-540-AC1A5 engines shipped from the factory. Engines shipped on or after October 30, 2000 are not affected by PART I of this Service Bulletin. For affected engines, the installation of Oil Filler Tube Kit P/N 05K23081 (includes new clamp) fulfills compliance with the replacement requirement of this Service Bulletin.

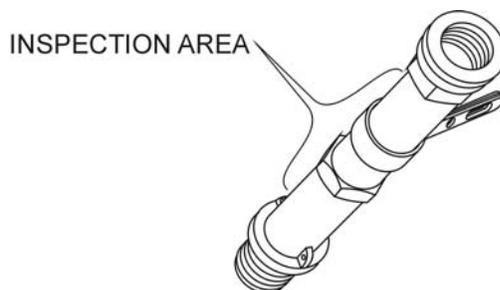


Figure 1

Inspect the oil filler tube as follows:

1. If Kit P/N 05K23081 has been installed (see Figure 2) proceed to Part II. If Kit P/N 05K23081 has not been installed, inspect tube (see Figure 1) for signs of gaps, cracks, leaks or damage. If damaged, replace before further flight.
2. Be sure that the clamp supporting the tube is not exerting downward pressure on the tube.

NOTE

After every oil check, be sure the dipstick is fully and securely screwed into the tube.

Replacement:

Refer to Figure 2.

1. Remove safety wire from the base of the oil filler tube.
2. Remove the clamp and hardware securing the filler tube to the engine.
3. Unscrew the filler tube from the base.
4. Install new dipstick P/N LW-16783-29 and o-ring P/N 74065 with new fill tube P/N 56C23075.
5. Install the new P/N 72059 gasket furnished in the kit onto the new filler tube assembly.
6. Install new filler tube P/N 56C23075 by screwing it securely into the base.
7. Install clamp P/N 07C23076 as shown in Figure 2. Using the bolt, 2 washers, and spacer as shown in Figure 2, and taking care that the tube is not preloaded, attach the clamp to the engine baffle. Torque the bolt to 49 in.-lbs.

NOTE

If there is a preload in any direction, check to be sure the correct adapter (P/N 12D22326) is installed. Replace if necessary.

8. Safety wire the base of the filler tube.
9. Make an appropriate logbook entry of compliance.

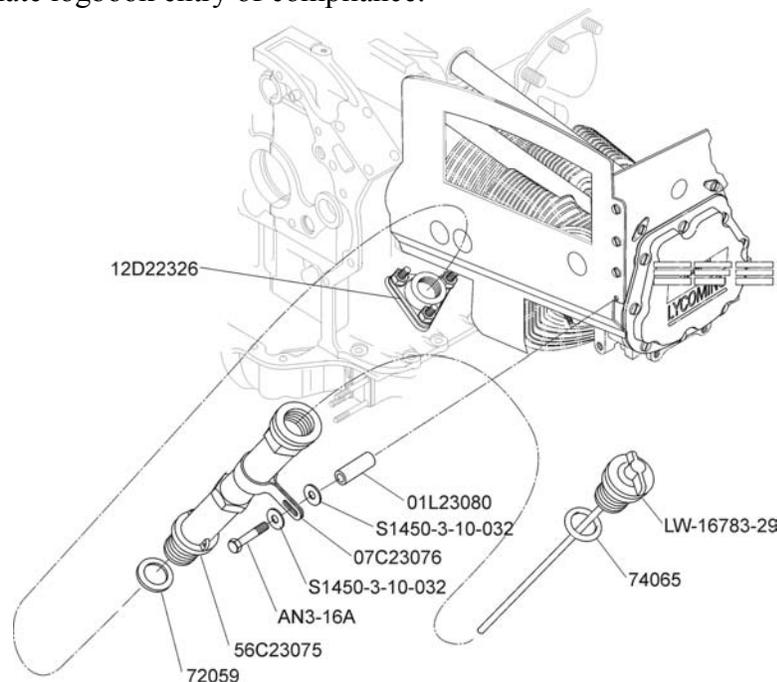


Figure 2

PART II

Subsequent to the original release of Oil Filler Tube Kit P/N 05K23081, the type, quantity and configuration of the washers have been modified.

If Kit P/N 05K23081 has been installed, refer to Figure 3. If two P/N S1450-3-10-032 washers are installed, no further action is required. If one S1450-3-8-032 washer is installed replace it as follows:

1. Remove the P/N AN3-16A bolt; retain the P/N 01L23080 spacer.
2. Discard the P/N S1450-3-8-032 washer.
3. Inspect the clamp (P/N 07C23076). If cracked or damaged, replace.
4. Reinstall the P/N AN3-16A bolt and the P/N 01L23080 spacer, using one P/N S-1450-3-10-032 washer under the bolt head and one between the bracket and spacer as shown in Figure 3. Torque the bolt to 49 in.-lbs.
5. Make an appropriate logbook entry of compliance.

NOTE

P/N AN3-16A bolt and P/N S-1450-3-10-032 washer available through Cessna

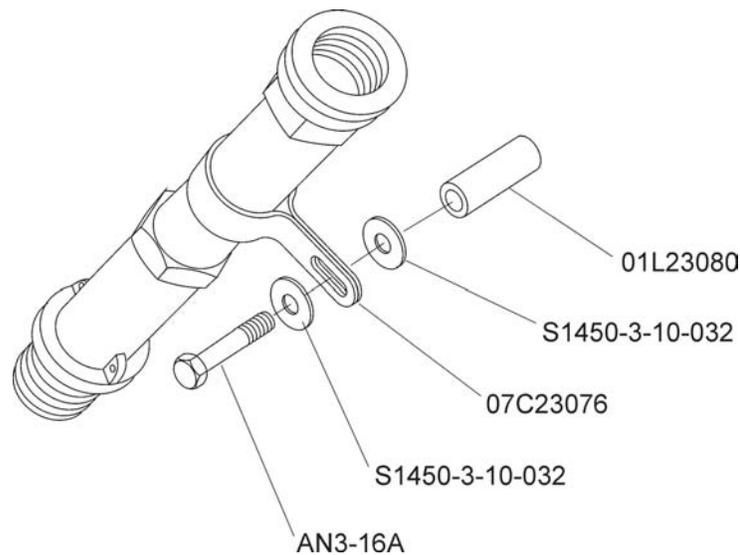


Figure 3.

WARRANTY:

For Part I, until February 20, 2002, reimbursement is available for up to .5 hour for one inspection, for up to 1.5 hours for replacement, and for parts (Kit P/N 05K23081) through a Textron Lycoming Distributor. Comply with Textron Lycoming Warranty procedure.

For Part II, until February 20, 2002 reimbursement is available for up to .5 hour for washer replacement through a Textron Lycoming Distributor. Comply with Textron Lycoming Warranty procedure.

NOTE: Revision "A" adds Part II, Kit P/N 05K23081 has been modified.