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MANDATORY

SERVICE BULLETIN

DATE: November 22, 2011

Service Bulletin No. 601
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Non-Compliant Oil Fill Tubes P/N 77527

MODELS AFFECTED: Refer to Tables 1, 2, and 3

TIME OF COMPLIANCE: At the next scheduled maintenance event or within the next 50 hours, not to exceed 12 months from the date of this Service Bulletin.

NOTE

Incomplete review of all the information in this document can cause errors. Read the entire Service Bulletin to make sure you have a complete understanding of the requirements.

This Service Bulletin is notification of required action for non-compliant oil fill tubes P/N 77527 sent from Lycoming Engines from May 17, 2011 to November 4, 2011. The inner machined groove is missing on the non-compliant oil fill tube and must be returned to Lycoming Engines for replacement under normal warranty procedures within 1 year of the date of this Service Bulletin.

Table 1 identifies affected Lycoming engines and serial numbers that have P/N 77527. (The molded part number is on the side of the tube as shown in Figure 1.) Table 2 identifies Lycoming engines that could have P/N 77527 installed as a spare part. Table 3 identifies the company, engine model designation, and serial number of kit engines shipped from Lycoming from May 17, 2011 to November 4, 2011 that included the oil fill tube P/N 77527.

Table 1
Affected Engine Models and Serial Numbers with Suspect Oil Fill Tubes P/N 77527

Engine Model	Serial Number	Engine Model	Serial Number
IO-360-A1B6	L-31382-51E	IO-540-K1A5	L-34524-48E
IO-360-A1B6	L-33841-51E	IO-540-K1A5	L-34793-48E
IO-360-A1B6	L-35505-51E	IO-540-K1A5	L-34794-48E
IO-360-A1B6	L-35506-51E	IO-540-K1A5	L-34852-48E
IO-360-A1B6	RL-28854-51E	IO-540-K1A5	RL-26969-48E
IO-360-A1B6	RL-29587-51E	IO-540-K1A5	RL-28053-48E
IO-360-A1B6	RL-30432-51E	IO-540-K1A5	RL-28119-48E
IO-540-C4B5	L-27738-48E	IO-540-K1A5	RL-28624-48E
IO-540-D4A5	L-34892-48E	IO-540-K1A5	RL-28643-48E
IO-540-K1A5	L-26805-48E	IO-540-K1A5	RL-28644-48E
IO-540-K1A5	L-26812-48E	IO-540-K1A5	RL-34645-48E



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Table 1
Affected Engine Models and Serial Numbers with Suspect Oil Fill Tubes P/N 77527

Engine Model	Serial Number	Engine Model	Serial Number
IO-540-K1G5	L-27006-48E	TIO-540-A2B	RL-2915-61A
IO-540-K1G5	L-27876-48E	TIO-540-A2B	RL-3330-61A
IO-540-K1G5	L-27938-48E	TIO-540-A2B	RL-4470-61A
IO-540-K1G5	L-34860-48E	TIO-540-A2C	RL-6684-61A
IO-540-K1G5	RL-26886-48E	TIO-540-S1AD	RL-13657-61A
IO-540-K1G5	RL-27589-48E	TIO-540-S1AD	RL-13658-61A
IO-540-K1G5	RL-28160-48E	YIO-540-D4A5	EL-34577-48E
IO-540-K1G5	RL-28632-48E	YIO-540-D4A5	EL-34579-48E
IO-540-K1G5	RL-28655-48E	YIO-540-D4A5	EL-34599-48E
IO-540-K1G5	RL-28664-48E	YIO-540-D4A5	EL-34601-48E
IO-540-K1G5	RL-28665-48E	YIO-540-D4A5	EL-34602-48E
IO-540-K1G5D	L-28900-48E	YIO-540-D4A5	EL-34607-48E
IO-540-K1G5D	L-34701-48E	YIO-540-D4A5	EL-34608-48E
IO-540-K1G5D	RL-14406-48E	YIO-540-D4A5	EL-34609-48E
IO-540-K1G5D	RL-26857-48E	YIO-540-D4A5	EL-34613-48E
IO-540-K1G5D	RL-28984-48E	YIO-540-D4A5	EL-34616-48E
IO-540-K1J5	L-27902-48E	YIO-540-D4A5	EL-34617-48E
IO-540-K1J5	L-27903-48E	YIO-540-D4A5	EL-34638-48E
IO-540-T4A5D	RL-27074-48E	YIO-540-D4A5	EL-34675-48E
IO-540-T4B5	RL-28371-48E	YIO-540-D4A5	EL-34676-48E
IO-720-A1B	RL-1533-54A	YIO-540-D4A5	EL-34677-48E
O-540-B4B5	L-20523-40E	YIO-540-D4A5	EL-34678-48E
O-540-B4B5	L-27206-40E	YIO-540-D4A5	EL-34688-48E
O-540-B4B5	L-27256-40E	YIO-540-D4A5	EL-34694-48E
O-540-E4A5	L-27253-40E	YIO-540-D4A5	EL-34695-48E
O-540-J3A5D	RL-15848-40E	YIO-540-D4A5	EL-34696-48E
O-540-J3A5D	RL-20689-40E	YIO-540-D4A5	EL-34700-48E
O-540-J3A5D	RL-24299-40E	YIO-540-D4A5	EL-34706-48E
TIO-360-C1A6D	L-252-64A	YIO-540-D4A5	EL-34707-48E
TIO-360-C1A6D	L-253-64A	YIO-540-D4A5	EL-34725-48E
TIO-540-A2B	L-4439-61A	YIO-540-D4A5	EL-34726-48E
TIO-540-A2B	RL-982-61A	YIO-540-D4A5	EL-34727-48E

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Table 1
Affected Engine Models and Serial Numbers with Suspect Oil Fill Tubes P/N 77527

Engine Model	Serial Number	Engine Model	Serial Number
YIO-540-D4A5	EL-34728-48E	YIO-540-D4A5	EL-34818-48E
YIO-540-D4A5	EL-34732-48E	YIO-540-D4A5	EL-34819-48E
YIO-540-D4A5	EL-34734-48E	YIO-540-D4A5	EL-34822-48E
YIO-540-D4A5	EL-34742-48E	YIO-540-D4A5	EL-34823-48E
YIO-540-D4A5	EL-34743-48E	YIO-540-D4A5	EL-34824-48E
YIO-540-D4A5	EL-34744-48E	YIO-540-D4A5	EL-34827-48E
YIO-540-D4A5	EL-34745-48E	YIO-540-D4A5	EL-34828-48E
YIO-540-D4A5	EL-34750-48E	YIO-540-D4A5	EL-34829-48E
YIO-540-D4A5	EL-34751-48E	YIO-540-D4A5	EL-34830-48E
YIO-540-D4A5	EL-34779-48E	YIO-540-D4A5	EL-34837-48E
YIO-540-D4A5	EL-34787-48E	YIO-540-D4A5	EL-34838-48E
YIO-540-D4A5	EL-34798-48E	YIO-540-D4A5	EL-34839-48E
YIO-540-D4A5	EL-34800-48E	YIO-540-D4A5	EL-34842-48E
YIO-540-D4A5	EL-34802-48E	YIO-540-D4A5	EL-34843-48E
YIO-540-D4A5	EL-34816-48E	YIO-540-D4B5	EL-34702-48E

Table 2
Engine Models that Use P/N 77527

O-235-L2C	IO-540-AA1A5	IO-540-K1H5	TIO-540-C1A
O-320-E3D	IO-540-AA1B5	IO-540-K1J5	TIO-540-J2B
O-360-A4J	IO-540-C4B5	IO-540-K2A5	LTIO-540-J2B
O-360-A4K	IO-540-D4A5	IO-540-M1A5	TIO-540-S1A5
IO-360-A1B6	IO-540-D4B5	IO-540-M1C5	IO-720-A1B
IO-360-A1D	IO-540-J4A5	IO-540-M1B5D	IO-720-D1B
TIO-360-C1A6D	IO-540-K1A5	IO-540-N1A5	IO-720-D1C
O-540-B4B5	IO-540-K1A5D	IO-540-R1A5	IO-720-D1CD
O-540-E4A5	IO-540-K1B5	IO-540-S1A5	YO-540-E4A5
O-540-E4B5	IO-540-K1D5	IO-540-T4A5D	YIO-540-B4B5
O-540-E4C5	IO-540-K1F5	IO-540-T4B5	YIO-540-C4B5
O-540-J3A5	IO-540-K1G5	TIO-540-A2B	YIO-540-K1H5
O-540-J3A5D	IO-540-K1G5D	TIO-540-A2C	

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Table 3
Engines Assembled from Lycoming Engine Kits
Containing the Subject P/N 77527

Company	Engine Model Designation	Serial Number
Aerosport Power LTD	IO-540-D4A5	1370-SPL
Aerosport Power LTD	IO-540-D4A5	1371-SPL
Mattituck Services, Inc.	TMXIO-540	V537960390

Required Action

1. In your spares inventory, examine all oil fill tubes 77527 received between May 17, 2011 and November 4, 2011; look for the inner machined groove. Figure 2 shows the inner machined groove in an oil fill tube. Figure 3 shows an oil fill tube without the inner machined groove.
2. At the next scheduled maintenance event or within the next 50 hours of engine operation (whichever occurs first), on engines identified in Table 1, look for the inner machined groove on the inner diameter of the oil fill tube.
3. If you installed oil fill tube P/N 77527 on any of the engine models in Table 2 between May 17, 2011 and the current date, at the next scheduled maintenance event or within the next 50 hours of engine operation (whichever occurs first) (not to exceed 12 months from the date of this Service Bulletin), look for the inner machined groove on the inner diameter of the oil fill tube.



WARNING

IT IS A RECOMMENDED BEST PRACTICE TO EXAMINE NEWLY RECEIVED PARTS PRIOR TO INSTALLATION ON AN ENGINE.

NOTE

Warranty consideration is available for engines, spare parts inventory, or engine package kits affected by this Service Bulletin for material and labor allowance through an authorized Lycoming distributor using the standard warranty procedure.

4. For those who have engine package kits shown in Table 3, look for the inner machined groove on the inner diameter of the oil fill tube.
5. If you find the inner machined groove on the oil fill tube, the oil fill tube is acceptable and can be used. Record your findings and compliance with this Service Bulletin in your engine logbook.
6. If you find any oil fill tube P/N 77527 that does not have the inner machined groove:
 - a. Remove the oil fill tube from the spares inventory or from the engine.
 - b. Return the non-compliant oil fill tube(s) to Lycoming Engines for an exchange through the normal warranty procedures up to 1 year from the date of this Service Bulletin.
 - c. Record your findings and compliance with this Service Bulletin in your engine logbook.
 - d. Contact an authorized Lycoming distributor.

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Figure 1
Molded Part Number



Figure 2
Compliant Oil Fill Tube P/N 77527
(With the Inner Machined Groove)



Figure 3
Non-Compliant Oil Fill Tube P/N 77527
(Without the Inner Machined Groove)

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