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MANDATORY SERVICE BULLETIN

DATE: May 4, 2011 Service Bulletin No. 597
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Fuel Drain Valve Adapter Assembly P/N LW-13807

MODELS AFFECTED: Spare parts for the engine models identified in Table 1 shipped from Lycoming between August 18, 2010 and April 15, 2011
 Lycoming engines, identified in Table 2, with P/N LW-13807 installed at time of purchase and shipped from Lycoming between August 18, 2010 and April 15, 2011

TIME OF COMPLIANCE: Within 10 hours of engine operation or at the next maintenance event, whichever occurs first

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 identifies a potential malfunctioning fuel drain valve adapter assembly P/N LW-13807 (Figure 1) on specific Lycoming engines and spare parts shipped between August 18, 2010 and April 15, 2011.

The fuel drain valve adapter assembly (located in the lowest portion of the induction system) prevents fuel accumulation in the induction system. The malfunctioning fuel drain valve adapter assembly is missing an internal spring. Because of the missing spring, it is important that you follow all Lycoming published operation procedures.

Table 1 identifies those Lycoming engine models that use the fuel drain valve adapter assembly P/N LW-13807. Table 2 identifies affected engine models and serial numbers that were shipped in the above described time period with defective valves.

Required Action:

1. Do a review of your engine records and spare parts orders to identify whether or not a fuel drain valve adapter assembly P/N LW-13807 was purchased between August 18, 2010 and April 15, 2011.
2. If your spare parts inventory and engine maintenance records show that you did not procure the fuel drain valve adapter assembly P/N LW-13807 within the suspect time frame, just record your findings of this check in compliance with this Service Bulletin in the engine logbook.



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3. If it is possible that procurement of this part occurred within the suspect time frame and now could either be in your spare parts inventory or installed on an engine model identified in Tables 1 or 2, you must identify and collect all of the suspect fuel drain valve adapter assemblies P/N LW-13807 as follows:

- a. Contact an authorized Lycoming distributor for a replacement part.

NOTE

Warranty is available for material and labor allowance through an authorized Lycoming distributor using the standard warranty procedure.

- b. Remove the suspect fuel drain valve adapter assembly P/N LW-13807 from you spare parts inventory.
- c. If you have any of the engine models identified in Tables 1 and 2, remove the suspect fuel drain valve adapter assembly P/N LW-13807 from the engine.



CAUTION

DO NOT DISASSEMBLE THE FUEL DRAIN VALVE ADAPTER ASSEMBLY TO PREVENT THE MALFUNCTION.

- d. Install a new verified fuel drain valve adapter assembly P/N LW-13807 from Lycoming Engines on each affected engine.
- e. Torque the new fuel drain valve adapter assembly P/N LW-13807 to 40 in.- lb (4.6 Nm).
- f. Record replacement activity in the engine logbook.

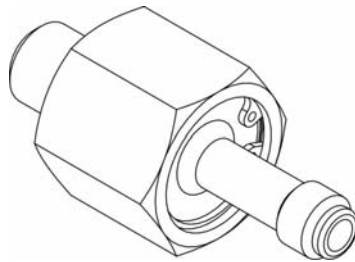


Figure 1
Fuel Drain Valve Adapter Assembly

Table 1
Lycoming Engine Models that Use
Fuel Drain Valve Adapter Assembly P/N LW-13807

HIO-360-E1AD	IO-540-AA1B5	TIO-540-AF1B	TIO/LTIO-540-U2A
HIO-360-E1BD	IO-540-AC1A5	TIO-540-AG1A	TIO-540-V2AD
HIO-360-F1AD	IO-540-AE1A5	TIO-540-AH1A	TIO-540-W2A
TO-360-C1A6D	TIO-540-AE2A	TIO-540-AJ1A	IO-580-A1A
TIO-360-C1A6D	TIO-540-AB1AD	TIO-540-AK1A	
IO-540-AA1A5	TIO-540-AB1BD	TIO-540-S1AD	

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Table 2
Affected Lycoming Engines

Engine Model	Engine S/N	Engine Model	Engine S/N	Engine Model	Engine S/N
HIO-360-F1AD	L-6994-51A	TIO-540-AE2A	L-13602-61A	TIO-540-AJ1A	L-12424-61E
TIO-360-C1A6D	L-250-64A	TIO-540-AE2A	L-13604-61A	TIO-540-AJ1A	L-13567-61E
TIO-360-C1A6D	L-251-64A	TIO-540-AE2A	L-13606-61A	TIO-540-AJ1A	L-13601-61E
IO-540-AC1A5	L-20444-48E	TIO-540-AE2A	L-13609-61A	TIO-540-AJ1A	RL-1679-61E
IO-540-AC1A5	L-29020-48E	TIO-540-AE2A	L-13610-61A	TIO-540-AJ1A	RL-3260-61E
IO-540-AC1A5	L-29116-48E	TIO-540-AE2A	L-13611-61A	TIO-540-AJ1A	RL-4694-61E
IO-540-AC1A5	L-29186-48E	TIO-540-AE2A	L-13613-61A	TIO-540-AJ1A	RL-6422-61E
IO-540-AC1A5	RL-3739-48E	TIO-540-AE2A	L-13614-61A	TIO-540-AJ1A	RL-6465-61E
IO-540-AC1A5	RL-13373-48E	TIO-540-AE2A	L-13617-61A	TIO-540-AJ1A	RL-6778-61E
IO-540-AC1A5	RL-13914-48E	TIO-540-AE2A	L-13618-61A	TIO-540-AJ1A	RL-10152-61E
IO-540-AC1A5	RL-25988-48E	TIO-540-AE2A	L-13619-61A	TIO-540-AJ1A	RL-10797-61E
IO-540-AC1A5	RL-26145-48E	TIO-540-AE2A	L-13625-61A	TIO-540-AJ1A	RL-11109-61E
IO-540-AC1A5	RL-26585-48E	TIO-540-AE2A	L-13627-61A	TIO-540-AK1A	L-12363-61A
IO-540-AC1A5	RL-26586-48E	TIO-540-AE2A	L-13631-61A	TIO-540-AK1A	L-13170-61A
IO-540-AC1A5	RL-26716-48E	TIO-540-AE2A	RL-2560-61A	TIO-540-AK1A	L-13551-61A
IO-540-AC1A5	RL-31641-48E	TIO-540-AE2A	RL-5930-61A	TIO-540-AK1A	L-13555-61A
IO-540-AC1A5	RL-31997-48E	TIO-540-AE2A	RL-6333-61A	TIO-540-AK1A	L-13563-61A
IO-540-AA1A5	RL-15741-48E	TIO-540-AE2A	RL-10589-61A	TIO-540-AK1A	L-13565-61A
TIO-540-AE2A	L-13210-61A	TIO-540-AF1B	RL-5416-61A	TIO-540-AK1A	L-13568-61A
TIO-540-AE2A	L-13510-61A	TIO-540-AF1B	RL-10691-61A	TIO-540-AK1A	L-13575-61A
TIO-540-AE2A	L-13544-61A	TIO-540-AH1A	L-12832-61A	TIO-540-AK1A	L-13576-61A
TIO-540-AE2A	L-13552-61A	TIO-540-AH1A	L-13545-61A	TIO-540-AK1A	L-13584-61A
TIO-540-AE2A	L-13553-61A	TIO-540-AH1A	L-13559-61A	TIO-540-AK1A	L-13585-61A
TIO-540-AE2A	L-13554-61A	TIO-540-AH1A	L-13570-61A	TIO-540-AK1A	L-13587-61A
TIO-540-AE2A	L-13558-61A	TIO-540-AH1A	L-13580-61A	TIO-540-AK1A	L-13595-61A
TIO-540-AE2A	L-13562-61A	TIO-540-AH1A	L-13588-61A	TIO-540-AK1A	L-13599-61A
TIO-540-AE2A	L-13564-61A	TIO-540-AH1A	L-13591-61A	TIO-540-AK1A	L-13603-61A
TIO-540-AE2A	L-13569-61A	TIO-540-AH1A	L-13605-61A	TIO-540-AK1A	L-13607-61A
TIO-540-AE2A	L-13572-61A	TIO-540-AH1A	L-13612-61A	TIO-540-AK1A	L-13608-61A
TIO-540-AE2A	L-13573-61A	TIO-540-AH1A	L-13616-61A	TIO-540-AK1A	L-13615-61A
TIO-540-AE2A	L-13581-61A	TIO-540-AH1A	L-13620-61A	TIO-540-AK1A	L-13621-61A
TIO-540-AE2A	L-13583-61A	TIO-540-AH1A	RL-7077-61A	TIO-540-AK1A	L-13622-61A
TIO-540-AE2A	L-13589-61A	TIO-540-AJ1A	L-797-61E	TIO-540-AK1A	L-13628-61A
TIO-540-AE2A	L-13590-61A	TIO-540-AJ1A	L-10358-61E	TIO-540-AK1A	L-13629-61A
TIO-540-AE2A	L-13596-61A	TIO-540-AJ1A	L-10987-61E	TIO-540-AK1A	L-13630-61A
TIO-540-AE2A	L-13600-61A			TIO-540-AK1A	RL-6795-61A

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