



652 Oliver Street
Williamsport, PA 17701 U.S.A.

Tel. 570-323-6181
Fax. 570-327-7101
www.lycoming.com

MANDATORY

SERVICE BULLETIN

DATE: June 1, 2011
Service Bulletin No. 598A
(Supersedes Service Bulletin No. 598)
Engineering Aspects are
FAA (DER) Approved

SUBJECT: V-Band Clamp P/N LW-12125-3 (Aeroquip P/N NH1008723-10) and LW-12093-6 (Aeroquip P/N MVT69183-225) on Turbocharged Engines

MODELS AFFECTED: Lycoming engines, identified in Table 1, and spare clamps shipped from Lycoming between December 27, 2010 and May 25, 2011.

TIME OF COMPLIANCE: Before next flight, immediate inspection of engines (in Tables 1 and 2) that have not already been operated and have proven thermal stability at high power
OR
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 *two* potentially non-conforming V-band clamps on specific Lycoming engines and spare parts shipped between December 27, 2010 and May 25, 2011:

- V-band clamp P/N LW-12125-3 (Aeroquip P/N NH1008723-10) with W.O. 51519853 stamped on it as shown in Figure 1.
- V-band clamp P/N LW-12093-6 (Aeroquip P/N MVT69183-225) with W.O. 51599475 stamped on it as shown in Figure 2.

Both of these V-band clamps could have unacceptable spot welds which could lead to an overstress failure once thermal expansion starts.

NOTE

The V-band clamps are identified in the remainder of this document by Lycoming P/N's LW-12125-3 and LW-12093-6. Except for experimental engines (those with an X in the engine model number) refer to the respective engine's illustrated parts catalog for the location of the V-band clamp on the engine. There are no illustrated parts catalogs for experimental engines.



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Table 1 identifies affected engine models and serial numbers shipped in the above described time period that could have the suspect clamps installed. Table 2 identifies those Lycoming engine models that use P/N LW-12125-3 and/or LW-12093-6

Required Action:

1. Refer to Table 2 and do a review of your engine records and spare parts orders to identify whether or not P/N LW-12125-3 or P/N LW-12093-6 purchases were made between December 27, 2010 and May 25, 2011.

NOTE

You must look for and examine both V-band clamps to make sure all suspect clamps are examined.

2. Look at the stamped data on P/N LW-12125-3 for W.O. 51519853 (Figure 1) and P/N LW-12093-6 for W.O. 51599475 (Figure 2).
3. If your spare parts inventory and engine maintenance records show that you did not receive clamps P/N LW-12125-3 or P/N LW-12093-6 within the suspect time frame, just record your findings of this check in compliance with this Service Bulletin in the engine logbook.
4. If it is possible that procurement of these parts 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 clamps as follows:
 - a. Remove the suspect clamps P/N LW-12125-3 stamped with W.O. 51519853 and P/N LW-12093-6 stamped with W.O. 51599475 from your spare parts inventory.

NOTE

You must look for and examine both V-band clamps to make sure all suspect clamps are examined.

- b. If you have any of the engine models identified in Tables 1 and 2, examine the stamped data on the clamps for W.O. 51519853 (See Figure 1) or W.O. 51599475 (See Figure 2).
 - (1) If the W.O. data stamped on the clamp is NOT 51519853 or 51599475, keep the clamp installed. Make sure the clamp is torqued as per the latest revision of Service Instruction No. 1238.
 - (2) If either W.O. 51519853 or W.O. 51599475 is stamped on the clamp, or if you cannot read the stamped data:
 - (a) Remove the suspect clamp(s) P/N LW-12125-3 and P/N LW-12093-6 from the engine.
 - (b) Contact an authorized Lycoming distributor for instructions where to send suspect parts and get replacement parts.

NOTE

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

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- (c) Install and torque new P/N LW-12125-3 and/or P/N LW-12093-6 (that does not have W.O. 51519853 or W.O. 51599475 stamped on it) on each affected engine as per the latest revision of Service Instruction No. 1238.
- (d) Record replacement activity in the engine logbook.



Figure 1

W.O. Stamp on V-Band Clamp P/N LW-12125-3
(Aeroquip P/N NH1008723-10)



Figure 2

W.O. Stamp on V-Band Clamp P/N LW-12093-6
(Aeroquip P/N MVT69183-225)

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**Table 1
Affected Lycoming Engines**

Engine Model	Engine S/N	Engine Model	Engine S/N	Engine Model	Engine S/N
LTIO-540-J2B	RL-1187-68A	TIO-540-AE2A	L-13467-61A	TIO-540-C1A	RL-10506-61A
LTIO-540-J2B	RL-1602-68A	TIO-540-AE2A	L-13510-61A	TIO-540-C1A	RL-10574-61A
LTIO-540-J2B	RL-2667-68A	TIO-540-AE2A	L-13604-61A	TIO-540-C1A	L-10956-61A
LTIO-540-J2B	L-457-68A	TIO-540-AE2A	L-13606-61A	TIO-540-F2BD	L-8077-61A
LTIO-540-J2BD	RL-1053-68A	TIO-540-AE2A	L-13609-61A	TIO-540-J2B	L-10977-61A
LTIO-540-J2BD	RL-1132-68A	TIO-540-AE2A	L-13610-61A	TIO-540-J2B	L-11850-61A
LTIO-540-J2BD	RL-1208-68A	TIO-540-AE2A	L-13611-61A	TIO-540-J2B	L-12808-61A
LTIO-540-J2BD	RL-1217-68A	TIO-540-AE2A	L-13613-61A	TIO-540-J2B	RL-1627-61A
LTIO-540-J2BD	RL-1307-68A	TIO-540-AE2A	L-13614-61A	TIO-540-J2B	L-1629-61A
LTIO-540-J2BD	RL-1376-68A	TIO-540-AE2A	L-13617-61A	TIO-540-J2B	RL-1686-61A
LTIO-540-J2BD	RL-1662-68A	TIO-540-AE2A	L-13618-61A	TIO-540-J2B	L-3914-61A
LTIO-540-J2BD	RL-1736-68A	TIO-540-AE2A	L-13619-61A	TIO-540-J2B	L-4788-61A
LTIO-540-J2BD	L-1812-68A	TIO-540-AE2A	L-13625-61A	TIO-540-J2B	L-5459-61A
LTIO-540-J2BD	RL-183-68A	TIO-540-AE2A	L-13627-61A	TIO-540-J2B	L-5905-61A
LTIO-540-J2BD	RL-1854-68A	TIO-540-AE2A	L-13631-61A	TIO-540-J2B	L-5981-61A
LTIO-540-J2BD	RL-1889-68A	TIO-540-AE2A	L-13632-61A	TIO-540-J2B	L-6080-61A
LTIO-540-J2BD	L-2506-68A	TIO-540-AE2A	L-13635-61A	TIO-540-J2B	L-6440-61A
LTIO-540-J2BD	L-2540-68A	TIO-540-AE2A	L-13636-61A	TIO-540-J2BD	L-10160-61A
LTIO-540-J2BD	RL-2582-68A	TIO-540-AE2A	L-13639-61A	TIO-540-J2BD	RL-10188-61A
LTIO-540-J2BD	L-2813-68A	TIO-540-AE2A	L-13641-61A	TIO-540-J2BD	RL-11074-61A
LTIO-540-J2BD	RL-623-68A	TIO-540-AE2A	L-13644-61A	TIO-540-J2BD	L-11091-61A
LTIO-540-J2BD	L-624-68A	TIO-540-AE2A	L-13645-61A	TIO-540-J2BD	L-11403-61A
TIO-540-A2B	L-6357-61A	TIO-540-AE2A	RL-2560-61A	TIO-540-J2BD	RL-1264-61A
TIO-540-A2C	RL-10254-61A	TIO-540-AE2A	RL-3068-61A	TIO-540-J2BD	RL-1715-61A
TIO-540-A2C	RL-10410-61A	TIO-540-AE2A	RL-5930-61A	TIO-540-J2BD	L-2657-61A
TIO-540-A2C	RL-10855-61A	TIO-540-AE2A	RL-6333-61A	TIO-540-J2BD	RL-3198-61A
TIO-540-A2C	RL-11096-61A	TIO-540-AF1B	RL-10691-61A	TIO-540-J2BD	L-4051-61A
TIO-540-A2C	RL-11266-61A	TIO-540-AF1B	RL-1952-61A	TIO-540-J2BD	L-4612-61A
TIO-540-A2C	RL-1145-61A	TIO-540-AH1A	L-13605-61A	TIO-540-J2BD	L-5567-61A
TIO-540-A2C	RL-1230-61A	TIO-540-AH1A	L-13612-61A	TIO-540-J2BD	L-6138-61A
TIO-540-A2C	L-12971-61A	TIO-540-AH1A	L-13616-61A	TIO-540-J2BD	L-6443-61A
TIO-540-A2C	RL-3661-61A	TIO-540-AH1A	L-13620-61A	TIO-540-J2BD	RL-6821-61A
TIO-540-AE2A	RL-10589-61A	TIO-540-AH1A	L-13642-61A	TIO-540-J2BD	RL-7707-61A
TIO-540-AE2A	L-13222-61A	TIO-540-AH1A	L-13643-61A	TIO-540-J2BD	RL-941-61A
TIO-540-AE2A	L-13388-61A	TIO-540-AH1A	RL-7077-61A		

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**Table 2
Lycoming Engine Models that Use
V-Band Clamp**

ENGINE MODEL	P/N LW-12125-3	P/N LW-12093-6	ENGINE MODEL	P/N LW-12125-3	P/N LW-12093-6
	Aeroquip PN – NH1008723-10	Aeroquip PN – MVT69183-225		Aeroquip PN – NH1008723-10	Aeroquip PN – MVT69183-225
TVO-435-A1A		●	LTIO-360-X125	●	●
TVO-435-B1A		●	TEO-540-X209		●
TVO-435-B1B		●	TEO-540-X212		●
TVO-435-D1A		●	TEO-540-X213		●
TVO-435-D1B		●	TEO-540-X218		●
TVO-435-F1A		●	TEO-540-X220		●
LTIO-540-F2BD	●	●	TEO-540-X232		●
LTIO-540-J2B	●	●	TIO-540-X120	●	●
LTIO-540-J2BD	●	●	TIO-540-X122	●	●
LTIO-540-N2BD	●		TIO-540-X136	●	●
LTIO-540-V2AD		●	TIO-540-X139	●	
TIO-540-A2B	●	●	TIO-540-X155	●	●
TIO-540-A2C	●	●	TIO-540-X164	●	●
TIO-540-AE2A		●	TIO-540-X171	●	●
TIO-540-AF1A	●		TIO-540-X180		●
TIO-540-F2BD	●	●	TIO-540-X181		●
TIO-540-AF1B	●	●	TIO-540-X185		●
TIO-540-AG1A	●		TIO-540-X186		●
TIO-540-AH1A	●	●	TIO-540-X194	●	●
TIO-540-C1A		●	TIO-540-X216	●	●
TIO-540-J2B	●	●	TIO-580-X134	●	●
TIO-540-J2BD	●	●	TIO-720-X151	●	●
TIO-540-N2BD	●		TIO-720-X152	●	●
TIO-540-V2AD		●			
TIO-540-W2A		●			
TIO-540-AA1AD	●	●			
TIO-540-AB1AD	●	●			
TIO-540-AB1BD	●	●			
TIO-541-E1C4	●	●			

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