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# MANDATORY SERVICE BULLETIN

DATE:	February 3, 2016	Service Bulletin No. 623 Engineering Aspects are FAA Approved
SUBJECT:	Reprint of Hartzell Engine Technologies (HET) Ser	vice Bulletin SB-062
MODELS AFFECTED:	All Lycoming engines equipped with Alternator P LW-14338.	art Number LW-14326 or
TIME OF COMPLIANCE:	50 hours from the issue date of this Service Bull scheduled maintenance event (whichever occurs first	0,
<b>NOTICE:</b> Incomplete revi	ew of all the information in this document can cau	se errors Read the entire

**NOTICE:** 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 mandatory compliance with Hartzell Engine Technologies Service Bulletin SB-062 dated July 13, 2015, regarding Lycoming engine models (Table 1) with alternator part number LW-14326 or LW-14338 approved for use on Lycoming engines.

Hartzell Engine Technologies Service Bulletin SB-062 dated July 13, 2015 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 623 is issued. However, compliance with this Service Bulletin is to be in accordance with the latest revision of the Hartzell Engine Technologies Service Bulletin SB-062.

**NOTICE:** Refer to the latest revision of Service Instruction No. 1154 for cross references of HET alternator model numbers, Lycoming part numbers, and Lycoming approved applications.

Table 1 in this Service Bulletin identifies affected engine models, engine serial numbers, alternator part numbers and alternator serial numbers that were shipped from Lycoming Engines that have suspect alternator through bolts.

Table 2 identifies affected Lycoming part numbers and alternator serial numbers of spares shipped from Lycoming that have suspect alternator through bolts.

#### **Required Action**

- 1. Identify whether or not you have any of the affected HET alternator models in Table 1 or 2 installed on your Lycoming engine or in inventory.
- 2. Follow the instructions in the attached HET Service Bulletin SB-062.
- 3. File a warranty claim directly with HET for replacement of the alternator per the Commercial Assistance section in the appendix in the latest revision of HET Service Bulletin SB-062.
- 4. Record any replacement activity and compliance with this Service Bulletin in the engine logbook.



General Aviation Manufacturers Association		ISSUE	D	REVISED PAGE NO.			REVISION	
	MO	DAY	YEAR	MO	DAY	YEAR	1 of 14	
	02	03	16					

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Engine Model         Engine Serial Number         Alternator P/N         Alternator S/N           O-360-A1P         L-42545-36E         LW-14338         H-O100460           O-360-A1P         L-42547-36E         LW-14338         H-O100459           O-360-A1P         L-42563-36E         LW-14338         H-O100595           O-360-C1F         L-42585-36E         LW-14326         H-O100595           O-360-C1F         L-42586-36E         LW-14326         H-O100592           IO-360-M1A         L-30711-51E         LW-14326         H-O100152           IO-360-M1A         L-31501-51E         LW-14326         H-O100152           IO-360-M1A         L-36505-51E         LW-14326         H-O100143           IO-360-M1A         L-36538-51E         LW-14326         H-O100614           IO-360-A1B6         RL-15818-51E         LW-14326         H-O100612           IO-360-A1B6         RL-20967-51E         LW-14326         H-O100612           IO-360-A1B6         RL-2098-51E         LW-14326         H-O100612           IO-360-M1A         RL-28491-51E         LW-14326         H-O100612           IO-360-M1A         RL-26723-51E         LW-14326         H-O100613           ID-360-G1A         RL-26723-51E         LW-143	Alternator Part Numbers and Alternator Serial Numbers							
O-360-A1P         L-42547-36E         LW-14338         H-0100460           O-360-A1P         L-42563-36E         LW-14338         H-0100459           O-360-C1F         L-42585-36E         LW-14326         H-0100595           IO-360-C1F         L-42586-36E         LW-14326         H-0100595           IO-360-M1A         L-30711-51E         LW-14326         H-0100592           IO-360-M1A         L-31501-51E         LW-14326         H-0100152           IO-360-A1B6         L-33695-51E         LW-14326         H-0100594           IO-360-M1A         L-36538-51E         LW-14326         H-0100594           IO-360-M1A         L-36538-51E         LW-14326         H-0100511           IO-360-A1B6         RL-15818-51E         LW-14326         H-0100612           IO-360-A1B6         RL-20788-51E         LW-14326         H-0100612           IO-360-M1A         RL-20967-51E         LW-14326         H-0100613           IO-360-M1A         RL-20967-51E         LW-14326         H-0100603           IO-360-M1A         RL-26723-51E         LW-14326         H-0100603           IO-360-M1A         RL-26723-51E         LW-14326         H-0100611           HIO-360-G1A         RL-26897-51E         LW-14326         <	Engine Model	Engine Serial Number	Alternator P/N	Alternator S/N				
O-360-A1P         L-42563-36E         LW-14338         H-0100459           O-360-C1F         L-42585-36E         LW-14326         H-0100616           O-360-C1F         L-42586-36E         LW-14326         H-0100595           IO-360-M1A         L-30711-51E         LW-14326         H-0100592           IO-360-M1A         L-31501-51E         LW-14326         H-0100152           IO-360-A1B6         L-33695-51E         LW-14326         H-0100594           IO-360-M1A         L-36505-51E         LW-14326         H-0100594           IO-360-M1A         L-36538-51E         LW-14326         H-0100594           IO-360-A1B6         RL-15818-51E         LW-14326         H-0100614           IO-360-A1B6         RL-20788-51E         LW-14326         H-0100612           IO-360-M1A         RL-20967-51E         LW-14326         H-0100612           IO-360-M1A         RL-20967-51E         LW-14326         H-0100613           IO-360-M1A         RL-26972-51E         LW-14326         H-0100603           IO-360-M1A         RL-26723-51E         LW-14326         H-0100603           IO-360-M1A         RL-26723-51E         LW-14326         H-0100611           HIO-360-G1A         RL-26723-51E         LW-14326	O-360-A1P	L-42545-36E	LW-14338	H-O100461				
O-360-C1F         L-42585-36E         LW-14326         H-O100616           O-360-C1F         L-42586-36E         LW-14326         H-O100595           IO-360-M1A         L-30711-51E         LW-14326         H-O100592           IO-360-M1A         L-31501-51E         LW-14326         H-O100152           IO-360-A1B6         L-33695-51E         LW-14326         H-O100143           IO-360-M1A         L-36505-51E         LW-14326         H-O100594           IO-360-M1A         L-36538-51E         LW-14326         H-O100614           IO-360-A1B6         RL-15818-51E         LW-14326         H-O100612           IO-360-A1B6         RL-20788-51E         LW-14326         H-O100612           IO-360-M1A         RL-20967-51E         LW-14326         H-O100612           IO-360-M1A         RL-28491-51E         LW-14326         H-O100603           IO-360-M1A         RL-2697-51E         LW-14326         H-O100603           IO-360-M1A         RL-36558-51A         LW-14326         H-O100603           IO-360-G1A         RL-26723-51E         LW-14326         H-O100611           HO-360-G1A         RL-26897-51E         LW-14326         H-O100602           IO-540-K1J5         L-36237-48E         LW-14326	O-360-A1P	L-42547-36E	LW-14338	H-O100460				
O-360-C1F         L-42586-36E         LW-14326         H-O100595           IO-360-M1A         L-30711-51E         LW-14326         H-O100592           IO-360-M1A         L-31501-51E         LW-14326         H-O100152           IO-360-A1B6         L-33695-51E         LW-14326         H-O100143           IO-360-M1A         L-36505-51E         LW-14326         H-O100594           IO-360-M1A         L-36538-51E         LW-14326         H-O100614           IO-360-A1B6         RL-15818-51E         LW-14326         H-O100612           IO-360-A1B6         RL-20788-51E         LW-14326         H-O100612           IO-360-M1A         RL-20967-51E         LW-14326         H-O100612           IO-360-M1A         RL-28491-51E         LW-14326         H-O100615           IO-360-M1A         RL-28491-51E         LW-14326         H-O100603           IO-360-M1A         RL-26723-51E         LW-14326         H-O100603           IO-360-G1A         RL-26723-51E         LW-14326         H-O100611           HIO-360-G1A         RL-26897-51E         LW-14326         H-O100612           IO-540-K1J5         L-36237-48E         LW-14326         H-O100602           IO-540-K1J5         L-36230-48E         LW-14326	O-360-A1P	L-42563-36E	LW-14338	H-O100459				
IO-360-M1A         L-30711-51E         LW-14326         H-0100592           IO-360-M1A         L-31501-51E         LW-14326         H-0100152           IO-360-A1B6         L-33695-51E         LW-14326         H-0100143           IO-360-M1A         L-36505-51E         LW-14326         H-0100151           IO-360-M1A         L-36538-51E         LW-14326         H-0100614           IO-360-A1B6         RL-15818-51E         LW-14326         H-0100612           IO-360-A1B6         RL-20788-51E         LW-14326         H-0100612           IO-360-M1A         RL-20967-51E         LW-14326         H-0100612           IO-360-M1A         RL-28491-51E         LW-14326         H-0100615           IO-360-M1A         RL-28491-51E         LW-14326         H-0100613           IO-360-M1A         RL-28491-51E         LW-14326         H-0100603           IO-360-M1A         RL-26858-51A         LW-14326         H-0100145           HIO-360-G1A         RL-26723-51E         LW-14326         H-0100153           IO-540-K1J5         L-36227-48E         LW-14326         H-0100591           IO-540-K1J5         L-36237-48E         LW-14326         H-0100602           IO-540-K1J5         L-36234-48E         LW-14326	O-360-C1F	L-42585-36E	LW-14326	H-O100616				
IO-360-M1A         L-31501-51E         LW-14326         H-O100152           IO-360-A1B6         L-33695-51E         LW-14326         H-O100143           IO-360-M1A         L-36505-51E         LW-14326         H-O100594           IO-360-M1A         L-36538-51E         LW-14326         H-O100511           IO-360-A1B6         RL-15818-51E         LW-14326         H-O100612           IO-360-A1B6         RL-20788-51E         LW-14326         H-O100612           IO-360-M1A         RL-20967-51E         LW-14326         H-O100612           IO-360-M1A         RL-20967-51E         LW-14326         H-O100612           IO-360-M1A         RL-20967-51E         LW-14326         H-O100612           IO-360-M1A         RL-28491-51E         LW-14326         H-O100613           IO-360-M1A         RL-30984-51E         LW-14326         H-O100142           IO-360-M1A         RL-26497-51E         LW-14326         H-O100145           HIO-360-G1A         RL-26723-51E         LW-14326         H-O100153           IO-540-K1J5         L-36297-48E         LW-14326         H-O1000591           IO-540-K1J5         L-36230-48E         LW-14326         H-O100602           IO-540-K1J5         L-36234-48E         LW-14326	O-360-C1F	L-42586-36E	LW-14326	H-O100595				
IO-360-A1B6L-33695-51ELW-14326H-O100143IO-360-M1AL-36505-51ELW-14326H-O100594IO-360-M1AL-36538-51ELW-14326H-O100151IO-360-A1B6RL-15818-51ELW-14326H-O100614IO-360-A1B6RL-20788-51ELW-14326H-O100612IO-360-A1B6RL-20788-51ELW-14326H-O100615IO-360-M1ARL-20967-51ELW-14326H-O100142IO-360-M1ARL-28491-51ELW-14326H-O100603IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100591IO-540-K1J5L-36230-48ELW-14326H-O100602IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-36234-48ELW-14326H-O100601IO-540-K1A5RL-26676-48ELW-14326H-O100600AEIO-540-ALA5RL-27987-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100600ID-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100605LTIO-540-F2BDRL-3090-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607L	IO-360-M1A	L-30711-51E	LW-14326	H-O100592				
IO-360-M1AL-36505-51ELW-14326H-O100594IO-360-M1AL-36538-51ELW-14326H-O100151IO-360-A1B6RL-15818-51ELW-14326H-O100614IO-360-A1B6RL-20788-51ELW-14326H-O100612IO-360-M1ARL-20967-51ELW-14326H-O100142IO-360-M1ARL-20967-51ELW-14326H-O100142IO-360-M1ARL-28491-51ELW-14326H-O100603IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-K1J5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-36234-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1A5RL-26676-48ELW-14326H-O100604IO-540-K1A5RL-26676-48ELW-14326H-O100604IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100600IIIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100605LTIO-540-F2BDRL-3099-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100607 </td <td>IO-360-M1A</td> <td>L-31501-51E</td> <td>LW-14326</td> <td>H-O100152</td>	IO-360-M1A	L-31501-51E	LW-14326	H-O100152				
IO-360-M1AL-36538-51ELW-14326H-O100151IO-360-A1B6RL-15818-51ELW-14326H-O100614IO-360-A1B6RL-20788-51ELW-14326H-O100612IO-360-M1ARL-20967-51ELW-14326H-O100142IO-360-M1ARL-28491-51ELW-14326H-O100142IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-3623-48ELW-14326H-O100601IO-540-K1K5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-AE1A5RL-27987-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100609LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-J2BL-235-68ALW-14326H-O100607LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100607 <td>IO-360-A1B6</td> <td>L-33695-51E</td> <td>LW-14326</td> <td>H-O100143</td>	IO-360-A1B6	L-33695-51E	LW-14326	H-O100143				
IO-360-A1B6RL-15818-51ELW-14326H-O100614IO-360-A1B6RL-20788-51ELW-14326H-O100612IO-360-M1ARL-20967-51ELW-14326H-O100615IO-360-M1ARL-28491-51ELW-14326H-O100142IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-K1J5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100602IO-540-K1J5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-AE1A5RL-27987-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100600AEIO-540-D4A5RL-28026-48ELW-14326H-O100605LTIO-540-J2BL-1827-68ALW-14326H-O100609LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100593	IO-360-M1A	L-36505-51E	LW-14326	H-O100594				
IO-360-A1B6RL-20788-51ELW-14326H-O100612IO-360-M1ARL-20967-51ELW-14326H-O100615IO-360-M1ARL-28491-51ELW-14326H-O100142IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-36234-48ELW-14326H-O100601IO-540-K1K5L-36234-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-K1B5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-2097-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100148LTIO-540-J2BL-2142-68ALW-14326H-O100605LTIO-540-F2BDRL-3009-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-360-M1A	L-36538-51E	LW-14326	H-O100151				
IO-360-M1ARL-20967-51ELW-14326H-O100615IO-360-M1ARL-28491-51ELW-14326H-O100142IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100153IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-36233-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1B5L-36236-48ELW-14326H-O100600IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-K1B5L-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-360-A1B6	RL-15818-51E	LW-14326	H-O100614				
IO-360-M1ARL-28491-51ELW-14326H-O100142IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36230-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1B5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100600AEIO-540-D4A5RL-26676-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100605LTIO-540-J2BL-1827-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100593	IO-360-A1B6	RL-20788-51E	LW-14326	H-O100612				
IO-360-M1ARL-30984-51ELW-14326H-O100603IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100591IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36230-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1B5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100601IO-540-K1B5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100607LTIO-540-J2BL-2142-61ALW-14326H-O100607LTIO-540-J2BL-2142-61ALW-14326H-O100607LTIO-540-J2BL-2142-61ALW-14326H-O100607LTIO-540-J2BL-2142-61ALW-14326H-O100607LTIO-540-J2BL-2142-61ALW-14326H-O100607	IO-360-M1A	RL-20967-51E	LW-14326	H-O100615				
IO-360-M1ARL-35547-51ELW-14326H-O100599HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100153IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36230-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1J5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1B5L-36236-48ELW-14326H-O100604IO-540-K1B5L-36236-48ELW-14326H-O100604IO-540-K1B5L-36236-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100147	IO-360-M1A	RL-28491-51E	LW-14326	H-O100142				
HIO-360-D1AL-36558-51ALW-14326H-O100145HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100153IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1B5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100147	IO-360-M1A	RL-30984-51E	LW-14326	H-O100603				
HIO-360-G1ARL-26723-51ELW-14326H-O100611HIO-360-G1ARL-26897-51ELW-14326H-O100153IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100601IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100593	IO-360-M1A	RL-35547-51E	LW-14326	H-O100599				
HIO-360-G1ARL-26897-51ELW-14326H-O100153IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1K5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-K1K5L-36236-48ELW-14326H-O100600AEIO-540-D4A5RL-26676-48ELW-14326H-O100144AEIO-540-D4A5RL-27987-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	HIO-360-D1A	L-36558-51A	LW-14326	H-O100145				
IO-540-V4A5L-27512-48ELW-14326H-O100591IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36238-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100607ITIO-540-J2BL-14143-61ALW-14326H-O100593	HIO-360-G1A	RL-26723-51E	LW-14326	H-O100611				
IO-540-K1J5L-36227-48ELW-14326H-O100602IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-K1K5L-36236-48ELW-14326H-O100600IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	HIO-360-G1A	RL-26897-51E	LW-14326	H-O100153				
IO-540-K1J5L-36228-48ELW-14326H-O100597IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-V4A5	L-27512-48E	LW-14326	H-O100591				
IO-540-K1J5L-36230-48ELW-14326H-O100141IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-K1J5	L-36227-48E	LW-14326	H-O100602				
IO-540-K1K5L-36233-48ELW-14326H-O100601IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100147	IO-540-K1J5	L-36228-48E	LW-14326	H-O100597				
IO-540-K1B5L-36234-48ELW-14326H-O100604IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100147	IO-540-K1J5	L-36230-48E	LW-14326	H-O100141				
IO-540-K1K5L-36236-48ELW-14326H-O100610IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100607LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-K1K5	L-36233-48E	LW-14326	H-O100601				
IO-540-AE1A5RL-26676-48ELW-14326H-O100600AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-K1B5	L-36234-48E	LW-14326	H-O100604				
AEIO-540-D4A5RL-27987-48ELW-14326H-O100144AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-K1K5	L-36236-48E	LW-14326	H-O100610				
AEIO-540-D4A5RL-28026-48ELW-14326H-O100148LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	IO-540-AE1A5	RL-26676-48E	LW-14326	H-O100600				
LTIO-540-J2BL-1827-68ALW-14326H-O100605LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	AEIO-540-D4A5	RL-27987-48E	LW-14326	H-O100144				
LTIO-540-J2BL-2142-68ALW-14326H-O100609LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	AEIO-540-D4A5	RL-28026-48E	LW-14326	H-O100148				
LTIO-540-F2BDL-2335-68ALW-14326H-O100607LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	LTIO-540-J2B	L-1827-68A	LW-14326	H-O100605				
LTIO-540-F2BDRL-3009-68ALW-14326H-O100147TIO-540-J2BL-14143-61ALW-14326H-O100593	LTIO-540-J2B	L-2142-68A	LW-14326	H-O100609				
TIO-540-J2B L-14143-61A LW-14326 H-O100593	LTIO-540-F2BD	L-2335-68A	LW-14326	H-O100607				
	LTIO-540-F2BD	RL-3009-68A	LW-14326	H-O100147				
TIO-540-J2BD         L-6507-61A         LW-14326         H-O100146	TIO-540-J2B	L-14143-61A	LW-14326	H-O100593				
	TIO-540-J2BD	L-6507-61A	LW-14326	H-O100146				

Table 1Affected Lycoming Engine Models, Engine Serial Numbers,<br/>Alternator Part Numbers and Alternator Serial Numbers

	ISSUED			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	2 of 14		S.B. 623
02	03	16				2 01 14		

Engine Model	Engine Model Engine Serial Number		Alternator S/N				
TIO-540-AE2A	RL-10119-61A	LW-14326	H-O100606				
110-J40-AE2A	KL-10119-01A	LW-14326	H-O100608				
TIO-540-J2BD	RL-101-61A	LW-14326	H-O100150				
TIO-540-AE2A	RL-5106-61A	LW-14326	H-O100613				
TIO-540-J2BD	RL-9161-61A	LW-14326	H-O100149				
TIO-540-J2B	RL-9804-61A	LW-14326	H-O100617				

Table 1 (Cont.)Affected Lycoming Engine Models, Engine Serial Numbers,<br/>Alternator Part Numbers and Alternator Serial Numbers

 Table 2

 Alternator Spare Parts Shipped from Lycoming

Lycoming P/N	Alternator S/N
LW-14326	H-O100618
LW-14326	H-O100154
LW-14326	H-O100155

	ISSUED REV			REVISED			REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	3 of 14		S.B. 623
02	03	16				5 01 11		



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#### 1. Planning Information

#### A. Effectivity

- (1) Hartzell Engine Technologies LLC (HET) Alternator models ALU-6526, ALU-8521R, ALU-8532LS, ALX-8521LS, and ALY-6521R with serial numbers shown in Table 1 are affected by this Service Bulletin.
- (2) HET Alternators sold through Lycoming Engines as models ALU-8521LS and ALX-8521LS-1 with serial numbers shown in Table 2 are affected by this Service Bulletin.
- (3) HET Alternators sold through Robinson Helicopter Company as models ALU-8521-9 and ALX-8521-9 with serial numbers shown in Table 3 are affected by this Service Bulletin.
- **NOTE:** The affected alternators are used on various aircraft using Lycoming engine installations. For application data, refer to http://www.hartzell.aero under "support, application charts, and alternator".

Table 1: HET Alternator Model ALU, ALX & ALY Series         Affected Models & Serial Numbers (FAA/PMA)							
ALU-6526	ALU-8521R	ALU-8521R	ALU-8532LS	ALX-8521LS	ALY-6521R		
H-O100512	H-O100173	H-O100189	H-O100623	H-O100637	H-O100157		
H-O100513	H-O100174	H-O100190	H-O100624	H-O100638	H-O100158		
H-O100514	H-O100175	H-O100191	H-O100625	H-O100639	H-O100159		
H-O100515	H-O100176	H-O100192	H-O100626	H-O100640	H-O100160		
H-O100516	H-O100177	H-O100193	H-O100627	H-O100641	H-O100161		
H-O100517	H-O100178	H-O100194	H-O100628	H-O100642	H-O100162		
	H-O100179	H-O100195		H-O100643	H-O100163		
	H-O100180	H-O100196		H-O100644	H-O100164		
	H-O100181	H-O100197		H-O100645	H-O100165		
	H-O100182	H-O100198		H-O100646	H-O100166		
	H-O100183	H-O100199		H-O100647	H-O100167		
	H-O100184	H-O100200		H-O100648	H-O100168		
	H-O100185	H-O100201		H-O100649	H-O100169		
	H-O100186	H-O100202		H-O100650	H-O100170		
	H-O100187	H-O100203		H-O100651	H-O100171		
	H-O100188	H-O100204		H-O100652	H-O100172		

The suffix "R" indicates an overhauled alternator.

# **Service Bulletin**

Service Bulletin No. 062

### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

Service Bulletin No. 062

#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

Table 2: Lycoming Engines (Not FAA/PMA) ALU-8521LS & ALX-8521LS-1 Alternators Affected Models & Serial Numbers						
ALU-8521LS*	ALU-8521LS*	ALU-8521LS*	ALX-8521LS-1*			
H-O100141	H-O100591	H-O100607	H-O100459			
H-O100142	H-O100592	H-O100608	H-O100460			
H-O100143	H-O100593	H-O100609	H-O100461			
H-O100144	H-O100594	H-O100610				
H-O100145	H-O100595	H-O100611				
H-O100146	H-O100596	H-O100612				
H-O100147	H-O100597	H-O100613				
H-O100148	H-O100598	H-O100614				
H-O100149	H-O100599	H-O100615				
H-O100150	H-O100600	H-O100616				
H-O100151	H-O100601	H-O100617				
H-O100152	H-O100602	H-O100618				
H-O100153	H-O100603	H-O100619				
H-O100154	H-O100604	H-O100620				
H-O100155	H-O100605	H-O100621				
H-O100156	H-O100606					

\* ALU-8521LS & ALX-8521LS-1 alternators used on Lycoming engines will not include FAA/PMA declaration on the data tag.

Table 3: Robinson Helicopter (Not FAA/PMA) Alternator ALU-8521-9 & ALX-8521-9 Affected Models & Serial Numbers						
ALU-8521-9**	ALU-8521-9**	ALX-8521-9**				
H-O100740	H-O100748	H-O100629				
H-O100741	H-O100749	H-O100630				
H-O100742	H-O100750	H-O100631				
H-O100743	H-O100751	H-O100632				
H-O100744	H-O100752	H-O100633				
H-O100745	H-O100753	H-O100634				
H-O100746	H-O100754	H-O100635				
H-O100747	H-O100755	H-O100636				

\*\* ALX-8521-9 alternators used on Robinson Helicopters will not include FAA/PMA declaration on the data tag.

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#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

- WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. THE INFORMATION CONTAINED IN THIS SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE HET WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THE SERVICE BULLETIN.
- B. Concurrent Requirements
  - (1) None
- C. Reason
  - (1) Affected serial numbers of alternator model ALU, ALX, and ALY may have a pan-head style HET P/N ALA-0020G through bolt installed. These pan-head through bolts have had incidences of bolt head separation. Refer to Figure 1.
  - (2) To eliminate the risk of through bolt head separation, all pan-head through bolts must be replaced with HET P/N ALA-0020G fillister-head style through bolts on the affected alternators. Refer to Figure 2 and Figure 3.
  - (3) The pan-head version of the HET P/N ALA-0020G through bolt is being discontinued and will no longer be used.
  - (4) Regulatory action is unknown.
- D. Description
  - (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
  - (2) This Service Bulletin requires an inspection of the affected alternators shown in Tables 1, 2, or 3 and return of any that are found with pan-head through bolts installed.
    - a. The alternator will be repaired using HET P/N ALA-0020G fillister-head through bolts.
- E. Compliance
  - (1) Within the next fifty (50) hours time in service after the effective date of this Service Bulletin or at the next scheduled inspection, whichever occurs first, inspect the affected alternators as shown in Tables 1, 2, or 3 in accordance with the Accomplishment Instructions of this Service Bulletin.
  - (2) Compliance with the Accomplishment Instructions in this Service Bulletin is the terminating action for this Service Bulletin.
- F. Approval
  - (1) FAA acceptance has been obtained on technical data in this publication that affects type design.
- G. Manpower
  - (1) If an affected alternator is found to contain pan-head versions of the through bolts, approximately one (1) man hour is required for removal and installation.

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#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

- H. Weight and Balance
  - (1) No change.
- I. Electrical Load Data
  - (1) No change.
- J. References

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

- (1) Applicable aircraft maintenance manual or Lycoming engine service instructions.
- (2) Applicable Robinson Helicopter Company service or maintenance manual.
- K. Other Publications Affected
  - (1) None.
- 2. <u>Material Information</u>
  - A. None
- 3. Accomplishment Instructions
  - WARNING 1: THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH ENGINE AND AIRFRAME MAINTENANCE THAT IS SPECIFIC TO THE ENGINE ALTERNATOR SYSTEM. FAILURE TO DO SO MAY RESULT IN ECONOMIC LOSS, EQUIPMENT DAMAGE, AND/OR PHYSICAL INJURY.
  - WARNING 2: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN (SB) AND THE APPLICABLE AIRCRAFT MAINTENANCE MANUAL AND/OR ENGINE SERVICE INSTRUCTIONS. INFORMATION CONTAINED IN THESE MANUALS OR THIS SB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THE SB OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/ OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE APPLICABLE ENGINE MANUFACTURER'S PUBLICATIONS AND/OR AIRCRAFT MAINTENANCE MANUAL INDEX FOR THE MOST RECENT REVISION LEVELS.
  - **CAUTION:** DO NOT DEPEND ON THIS SERVICE BULLETIN FOR GAINING ACCESS TO THE AIRCRAFT AND ENGINE. ACCESS REQUIRES USE OF THE APPLICABLE MANUFACTURER'S MAINTENANCE MANUALS OR SERVICE INSTRUCTIONS. IN ADDITION, ANY PREFLIGHT OR IN FLIGHT OPERATIONAL CHECKS REQUIRE USE OF THE APPROPRIATE AFM OR POH.
  - A. Identification (Alternators)
    - (1) If positive identification of the alternator model and serial number CAN be made through aircraft documentation, and the alternator is affected, proceed to section 3.B Inspection.

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#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

- (2) If identification of the alternator model and serial number CANNOT be made through aircraft documentation, visually inspect the alternator and locate the data tag to determine if the alternator is an affected model and serial number per section 1.A Effectivity and Table 1, 2, & 3.
  - a. If the alternator IS NOT affected, proceed to section 3.D(3) for Return to Service.
  - b. If the alternator IS affected, proceed with section 3.B, Inspection.
- B. Inspection:
  - (1) Using a bright white light, inspect the alternator drive end housing at each through bolt location (four each) beneath the fan. Refer to Figure 4.
    - a. If a pan-head through bolt is installed, return the affected alternator to HET for repair per 3.C Corrective Action. Refer to Figure 2.
    - b. If positive identification that four fillister-head through bolts are installed, the affected alternator is in compliance with this service bulletin. Proceed to 3.D(3), Return to Service. Refer to Figure 3.
- C. Corrective Action:
- **NOTE:** Special permission has been obtained from Robinson Helicopter Company which allows affected alternators to be returned and repaired directly by HET. Return shipment of the repaired alternator will include the appropriate repair documentation.
  - (1) Removal and Return
    - a. Remove the affected alternator from the engine in accordance with the applicable aircraft and/or engine maintenance manual or service instruction.
    - b. Return all affected alternators directly to HET for repair per section 4 Contact Information.
      - (i). Include the completed SB 062 Claim form found in the Commercial Appendix attached to this Service Bulletin along with the HET supplied RMA number.
  - (2) Alternator Installation
    - a. Install the repaired or unaffected alternator model on the engine in accordance with the applicable aircraft maintenance manual and/or engine service instruction.
- D. Return to Service
  - (1) Inspect the alternator installation on aircraft or engine as prescribed in the applicable aircraft maintenance manual and/or engine service instruction of the latest revision.
  - (2) Perform the recommended functional tests in accordance with the appropriate aircraft maintenance manual and POH or AFM.
  - (3) Using the latest revision of the applicable aircraft maintenance manual, install any portion of the aircraft that was removed to gain access.
- E. Maintenance Record
  - (1) Make an aircraft logbook entry to indicate the completion of this Service Bulletin as applicable noting compliance with this Service Bulletin as terminating action.

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#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

- 4. Contact Information
  - A. Contact **HET Product Support** for all communications regarding the technical content of this Service Bulletin and to obtain RMA return information.
    - (1) Phone +1.334.386.5400 (Option 2)
    - (2) Fax +1.334.386.5450.
    - (3) E-mail at techsupport@HartzellEngineTech.com.
    - (4) Address

Hartzell Engine Technologies LLC 2900 Selma Highway, Montgomery, AL 36108 USA

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#### Alternator Models ALU, ALX & ALY Series HET P/N ALA-0020G Through Bolt Replacement

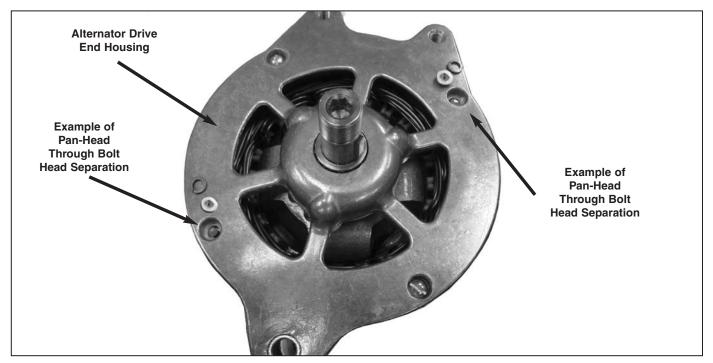


Figure 1 - ALX-8521LS Pan-Head Through Bolt Head Separation Example Shown with Fan Removed.

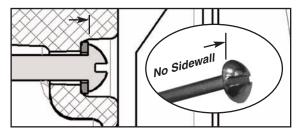


Figure 2 - Pan-Head Through Bolt (If found alternator must be repaired)

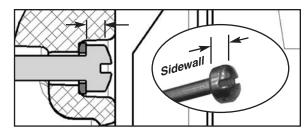


Figure 3 - Fillister-Head Through Bolt (If four found, alternator is acceptable)



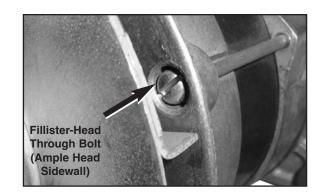


Figure 4 - Through Bolt Head Inspection Example Shown.

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### **Service Bulletin Appendix**

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#### Alternator Models ALU, ALX, & ALY Series HET P/N ALA-0020G Through Bolt Replacement

#### 1. ELIGIBILITY:

- A. ALU-6526, ALU-8521R, ALU-8532LS, ALX-8521LS and ALX-6521R alternators with serial numbers listed in Table 1.
- B. ALU-8521LS and ALX-8521LS-1 alternators with serial numbers listed in Table 2.
- C. ALU-8521-9 and ALX-8521-9 alternators with serial numbers listed in Table 3.

#### 2. COMMERCIAL ASSISTANCE PROGRAM:

The following will be provided with the submission of a completed SB 062 Claim Form, copies of invoices showing breakdown of labor charges, material and log book entries. Any commercial assistance or other consideration shall expire twelve (12) calender months from the original published date of SB 062.

- A. Labor for Inspection of affected alternators to determine if they contain pan-head through bolts will be paid at a shop rate of \$75 per hour up to 2/3 hour (\$50).
- B. Affected alternators containing pan-head versions of HET P/N ALA-0020G through bolts returned to HET, will be repaired under HET's limited warranty for components.
- C. Labor for removal & installation for affected alternators containing pan-head versions of HET P/N ALA-0020G through bolts will be paid at a shop rate of \$75 per hour up to one (1.0) hour labor.

#### 3. COMMERCIAL ASSISTANCE ADMINISTRATION:

- A. Complete the Service Bulletin SB 062 Claim Form attached to this appendix.
  - (1) Mail, e-mail, or fax the SB 062 Claim Form to the attention of Product Support as indicated on the Service Bulletin Claim Form.
- B. Upon receipt of the Service Bulletin Claim Form and affected alternator, Hartzell Engine Technologies LLC will repair and return the alternator to the service provider indicated.
- C. For labor and material charges:
  - (1) Aircraft/engine service facility to submit an invoice up to the amount specified in section 2, copies of logbook entries, and a completed SB 062 Claim Form for reimbursement.

#### 4. WARRANTY STATEMENT:

- A. The sole warranty for the actions of SB 062 are contained in the HET Limited Warranty Policy issued with the purchase of each new/overhauled alternator (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of SB 062 in no way constitutes an implied or expressed warranty of any kind.
- D. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the engine or aircraft electrical system.

### **Service Bulletin Appendix**

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#### Alternator Models ALU, ALX, & ALY Series HET P/N ALA-0020G Through Bolt Replacement

#### 5. CONTACT INFORMATION:

A. Contact HET Product Support for all communications regarding the technical content of this Service Bulletin.

- (1) Phone +1.334.386.5400 (Option 2)
- (2) Fax +1.334.386.5450.
- (3) E-mail at techsupport@HartzellEngineTech.com.
- (4) Address

Hartzell Engine Technologies LLC 2900 Selma Highway, Montgomery, AL 36108 USA

#### 6. SHIPPING INFORMATION:

Alternators being returned for repair must be securely packaged so no damage will occur in shippment. A copy of the properly completed SB 062 Claim Form for each affected alternator must be placed inside the shipping container. All alternators must be received undamaged and assembled.

Address package to:

Hartzell Engine Technologies LLC Product Support Department 2900 Selma Highway, Montgomery, AL 36108 US.

Also indicate clearly on the outside of the shipping container:

PRODUCT SUPPORT DEPT / SB 062

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#### Alternator Models ALU, ALX, & ALY Series HET P/N ALA-0020G Through Bolt Replacement

Owner information				
Name:	Date:	Tel:	Fax:	
Company Name:		E-mail:		
Address:				
City:	State:	Pos	tal Code:	
Country:				
Aircraft/Engine Service Facility in				
Name:				
Company Name:				
Address:				
City:	State:	Pos	stal Code:	
Country				
Aircraft Mfg:				
Engine:	Model:	Time in Service:	S/N:	
Component Information				
Nomenclature: Alternator Assembly		Part Number:		
Serial Number:	(Alternator)	Date Remo	oved:	
Part Time in Service:	(Alternator)	Original Date Insta	lled:	
For RMA Number		RMA Number:		
Send this SB 062 Claim Form to:				
Hartzell Engine Technologies Product	Support			
Fax: +1.334.386.5450 E-mail: techsupport@hartzellenginetec	h.com	(write in HET assigned RM	A number)	
Hartzell Use Only - do not write below	w this line.			
Warranty No:		Authorized by:		