

HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

TRANSMITTAL SHEET

HC-ASB-61-399

Propellers Overhauled by China Flying Dragon General Aviation

October 05, 2022

This page transmits a revision to Alert Service Bulletin HC-ASB-61-399.

- Original Issue, dated Aug 03/22
- Revision 1, dated Oct 05/22

Propeller assemblies that have complied with the requirements in a previous revision of this Alert Service Bulletin are not affected.

Changes are shown by a change bar in the left margin of the revised pages.

Revision 1 is issued to change the following:

- Revise the section, "Compliance"

This Alert Service Bulletin is reissued in its entirety.

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1. Planning Information

A. Effectivity

- (1) All propellers manufactured by Hartzell Propeller Inc. that were overhauled/maintained by China Flying Dragon General Aviation and had steel parts cadmium plated by Harbin Aircraft Industry (Group) Co. Ltd. (HAIG) prior to March 25, 2022 are affected by this Alert Service Bulletin.
 - (a) Harbin Aircraft Industry (Group) Co. Ltd. (HAIG) was formerly Harbin Aircraft Manufacturing Corporation.
 - (b) Harbin Aircraft Industry (Group) Co. Ltd. (HAIG) is also known as Hafei.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN. INFORMATION CONTAINED IN THIS ALERT SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ALERT 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 SERVICE BULLETIN INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN.

B. Concurrent Requirements

- (1) Additional service documents may apply to the components/propellers affected by this Alert Service Bulletin. Compliance with additional service documents may be necessary in conjunction with the completion of the Accomplishment Instructions in this Alert Service Bulletin. Refer to the Hartzell Propeller Inc. website at www.hartzellprop.com for a cross-reference of service documents.

C. Reason

- (1) There have been reports of C-1301-9S blade clamps with fractures around the outboard clamping lug on the counterweight side of the clamp.
- (2) Evidence has shown that these blade clamps failed due to hydrogen embrittlement caused by improper baking during Hafei's cadmium plating process.

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D. Description

- (1) This Alert Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Alert Service Bulletin provides instructions for replacing cadmium plated parts on affected propellers.

E. Compliance

- (1) Before further flight, remove/replace the cadmium plated parts that require baking [as specified in the chapter, "Cadmium Replating" of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)] from the affected propeller in accordance with the Accomplishment Instructions section of this Alert Service Bulletin.

F. Approval

- (1) FAA acceptance has been obtained on technical data in this publication that affects type design.

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

G. References

- (1) Hartzell Propeller Inc. Application Guide Manual 159 (61-02-59)
- (2) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)
- (3) All Hartzell Propeller Inc. Propeller Owner's Manuals
- (4) All Hartzell Propeller Inc. Overhaul/Maintenance Manuals

2. Material Information

A. None

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3. Accomplishment Instructions

A. Disassembly

- (1) Remove the propeller from the aircraft engine in accordance with the applicable Hartzell Propeller Inc. propeller Owner's manual.
- (2) Disassemble the propeller in accordance with the applicable Hartzell Propeller Inc. propeller Overhaul Manual.

NOTE: Disassembly, inspection, and assembly of the propeller and propeller hub must be performed by a certified propeller repair station with the appropriate rating.

- (3) Retire all cadmium plated steel parts in accordance with the Part Retirement Procedures chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02).

B. Assembly

- (1) Assemble the propeller using new or serviceable cadmium plated steel parts in accordance with the applicable Hartzell Propeller Inc. propeller Overhaul Manual.

NOTE: Disassembly, inspection, and assembly of the propeller and propeller hub must be performed by a certified propeller repair station with the appropriate rating.

- (2) Install the propeller on the aircraft engine in accordance with the applicable Hartzell Propeller Inc. propeller Owner's manual.
- (3) Make an entry in the propeller logbook indicating compliance with this Service Bulletin.

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C. Recommended Service Facilities

- (1) Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.
- (2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller requirements before being recommended by Hartzell Propeller Inc. Each service facility is audited by Hartzell Propeller Inc. to verify the continuation of the standards.
- (3) Hartzell Propeller Inc. recommends that you use one of these service facilities when having your propeller overhauled or repaired.
- (4) For a current list of Hartzell Propeller Inc. Recommended Service Facilities, contact Hartzell Propeller Inc. Product Support or refer to the Hartzell Propeller Inc. website at www.hartzellprop.com.
- (5) For a list of repair facilities that have been evaluated and approved by Hartzell Propeller Inc. to shot peen Hartzell propeller components, refer to the "Sample Program Approvals" page on the Hartzell website at www.hartzellprop.com.

D. Contact Information

- (1) Email, fax, or mail the compliance form to:
Hartzell Propeller Inc.
Attn: Hartzell Propeller Inc. Product Support
One Propeller Place
Piqua, OH 45356 USA
Phone: 937.778.4379
Fax: 937.778.4215 (Intl. 001.937.778.4215)
Email: techsupport@hartzellprop.com