

HARTZELL PROPELLER INC.
SERVICE LETTER

HC-SL-61-324

Blade - Aluminum Blade Field Repair

1. Planning Information

A. Effectivity

- (1) Hartzell aluminum blades in all Hartzell propeller models are affected by this Service Letter.

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

- (2) Hartzell composite blades are not affected by this Service Letter.

B. Concurrent Requirements

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

C. Reason

- (1) Hartzell Propeller Owner's Manuals that apply to propeller models with aluminum blades identify procedures for field repair of those aluminum blades.
 - (a) At the time of the original issue of this Service Letter, the specified procedures in the applicable Hartzell Propeller Owner's Manuals include a requirement for penetrant inspection after all repairs to make sure that no indication of the damage, file marks, or coarse surface finish remain.
 - (b) This penetrant requirement is not possible at all field repair locations.
- (2) Regulatory action is not expected.

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D. Description

- (1) This Service Letter introduces a change in the inspection requirements after aluminum blade field repair:
 - (a) Expands the visual inspection requirements after the field repair
 - (b) Changes the penetrant inspection from a requirement to a recommendation

E. Compliance

- (1) Compliance with this Service Letter is required after each field repair of any affected aluminum blade.
- (2) Compliance with this Service Letter is terminating action for each instance of repair, but must be complied with at each subsequent instance of repair.

F. Approval

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

G. Manpower

- (1) Additional manpower is not required.

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not Changed

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) Hartzell Propeller Owner's Manual 115N (61-00-15)
- (2) Hartzell Propeller Owner's Manual 131
- (3) Hartzell Propeller Owner's Manual 136
- (4) Hartzell Propeller Owner's Manual 139 (61-00-39)
- (5) Hartzell Propeller Owner's Manual 140 (61-00-40)
- (6) Hartzell Propeller Owner's Manual 149 (61-00-49)

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- (7) Hartzell Propeller Owner's Manual 167 (61-00-67)
- (8) Hartzell Propeller Owner's Manual 168 (61-00-68)
- (9) Hartzell Propeller Owner's Manual 169 (61-00-69)
- (10) Hartzell Propeller Owner's Manual 174 (61-00-74)
- (11) Hartzell Propeller Owner's Manual 175 (61-00-75)
- (12) Hartzell Standard Practices Manual 202A, Volume 2 (61-01-02)
- (13) FAA Advisory Circular 43.13-1B

K. Other Publications Affected

- (1) Hartzell Propeller Owner's Manual 115N (61-00-15)
- (2) Hartzell Propeller Owner's Manual 131
- (3) Hartzell Propeller Owner's Manual 136
- (4) Hartzell Propeller Owner's Manual 139 (61-00-39)
- (5) Hartzell Propeller Owner's Manual 140 (61-00-40)
- (6) Hartzell Propeller Owner's Manual 149 (61-00-49)
- (7) Hartzell Propeller Owner's Manual 167 (61-00-67)
- (8) Hartzell Propeller Owner's Manual 168 (61-00-68)
- (9) Hartzell Propeller Owner's Manual 169 (61-00-69)
- (10) Hartzell Propeller Owner's Manual 174 (61-00-74)
- (11) Hartzell Propeller Owner's Manual 175 (61-00-75)

2. Material Information

- A. Additional materials are not required.

3. Accomplishment Instructions

- A. Field repair of small nicks and scratches may be performed by qualified personnel in accordance with FAA Advisory Circular 43.13-1B, the procedures in the applicable Hartzell Propeller Owner's Manual, and the instructions below.
- B. For field repair of aluminum blades on Hartzell Propeller models HC-H3YF-3LF (Hartzell Propeller Owner's Manual 131) and ()HC-E()Y()-7 (Hartzell Propeller Owner's Manual 136), refer to the Maintenance Practices chapter of Hartzell Propeller Owner's Manual 115N (61-00-15).

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- C. After filing or sanding and polishing the damaged area in accordance with the applicable Hartzell Propeller Owner's Manual:
- (1) Inspect the repaired area with a 10X magnifying glass.
 - (2) If this inspection shows any remaining blade damage:
 - (a) Repeat the polishing procedure in accordance with the applicable Hartzell Propeller Owner's Manual.
 - (b) Repeat steps 3.C.(1) through 3.C.(2)(b) of this Service Letter until no damage is found.

CAUTION: DO NOT USE THE VISIBLE DYE METHOD REFERENCED IN FAA ADVISORY CIRCULAR 43.13-1B ON HARTZELL PROPELLER ALUMINUM BLADES.

- (3) Penetrant inspection of the repaired area in accordance with the Penetrant Inspection chapter of Hartzell Standard Practices Manual 202A, Volume 2 (61-01-02) is recommended.
 - (a) If any indications are found:
 - 1 Repeat the filing or sanding and polishing procedures in accordance with the applicable Hartzell Propeller Owner's Manual.
 - 2 Repeat steps 3.C.(1) through 3.C.(3)(b) of this Service Letter until no indications are found.
- (4) Refer to the applicable Hartzell Propeller Owner's Manual for corrosion prevention and paint procedures to complete the repair process.
- (5) Make an entry in the propeller logbook indicating completion of repair(s) as necessary.

D. Contact Information

Hartzell Propeller Inc.
Attn.: Hartzell Product Support
One Propeller Place
Piqua, Ohio 45356-2634 USA
Phone: (001) 937.778.4379
Fax: (001) 937.778.4391
E-mail: techsupport@hartzellprop.com