

**HARTZELL PROPELLER INC.**  
**ALERT SERVICE BULLETIN**  
**TRANSMITTAL SHEET**  
**HC-ASB-61-376**  
**Blade - Counterweight Inspection**

September 05, 2018

This page transmits a revision to Alert Service Bulletin HC-ASB-61-376.

- Original Issue, dated Jun 01/18
- Revision 1, dated Aug 01/18
- Revision 2, dated Sep 05/18

Propeller assemblies that have complied with the inspections required in a previous revision of this Alert Service Bulletin are affected.

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

Revision 2 is issued to change the following in the Alert Service Bulletin:

- Revised the section, "Effectivity"

This Alert Service Bulletin is reissued in its entirety.

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**Blade - Counterweight Inspection**

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1. Planning Information

A. Effectivity

(1) Hartzell Propeller Inc. lightweight turbine propellers HC-E4A-2( )/E9612( ) that were manufactured prior to December 2016, or overhauled prior to June 01, 2018 (the original release date of this Alert Service Bulletin) are affected by this Alert Service Bulletin.

(a) The affected propellers are installed on Beech T6A Texan II( ) aircraft.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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](http://www.hartzellprop.com) for a cross-reference of service documents.

C. Reason

- (1) Hartzell Propeller Inc. has received multiple reports of corrosion on the blade counterweights installed on the affected propellers.
- (2) Regulatory action is not expected.

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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 a visual inspection of the counterweights, blades, and the associated mounting hardware on the affected propellers.
- (3) This Alert Service Bulletin provides instructions for removal and inspection of the counterweights, blades, and the associated mounting hardware on the affected propellers.

### E. Compliance

- (1) Initial Inspection
  - (a) Within 120 days from the release date of this Alert Service Bulletin, perform the Visual Inspection in accordance with the Accomplishment Instructions in this Alert Service Bulletin.
- (2) Repetitive Inspections
  - (a) At each propeller phase inspection or at repetitive intervals not exceeding six months from the last Visual Inspection, perform the Visual Inspection in accordance with the Accomplishment Instructions in this Alert Service Bulletin.
- (3) Terminating Action
  - (a) Completion of the Counterweight/Blade Inspection and Repair procedure in accordance with the Accomplishment Instructions in this Alert Service Bulletin is terminating action for this Alert Service Bulletin.  
  
- or -
  - (b) Overhaul of the affected blades and counterweights in accordance with the Hartzell Propeller Inc. overhaul manuals listed below is terminating action for this Alert Service Bulletin.
    - 1 Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33)
    - 2 Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)

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F. Approval

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

G. Manpower

Procedure	Man-hours
Visual Inspection	4 hours
Counterweight/Blade Inspection and Repair	16 hours
Propeller/Blade Overhaul	No additional man-hours

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not changed

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

J. References

- (1) Hartzell Propeller Inc. Propeller Owner's Manual 149 (61-00-49)  
(Available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com))
- (2) Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33)
- (3) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)
- (4) Hartzell Propeller Inc. Illustrated Tool and Equipment Manual 165A (61-00-65)  
(Available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com))
- (5) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02) -  
(Volume 7, Consumable Materials and Packaging and Storage is available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com))

K. Other Publications Affected

- (1) None

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2. Material Information

A. Consumables Materials for Visual Inspection

<u>CM Number</u>	<u>Description</u>
CM23	Stoddard Solvent
CM47	Abrasive Pad
CM352	Corrosion Inhibitor

NOTE: All CM numbers in this Alert Service Bulletin refer to the Consumable Materials chapter of Hartzell Standard Practices Manual 202A (61-01-02).

B. Materials Required for Counterweight/Blade Inspection and Repair

- (1) Components may require replacement on condition.  
Refer to the Hartzell Propeller Inc. overhaul manuals listed below:
  - (a) Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33)
  - (b) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)

C. Special Tooling

<u>TE Number</u>	<u>Description</u>
TE316	Unfeathering Tool
-	Torque wrench
-	7/16" twelve point crows foot adapter
-	5/16" hex bit socket

NOTE: All TE numbers in this Service Bulletin refer to Hartzell Propeller Inc. Tool and Equipment Manual 165A (61-00-65).

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**Visual Inspection** (*Corrosion is not permitted on these surfaces*)

**Figure 1**

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3. Accomplishment Instructions

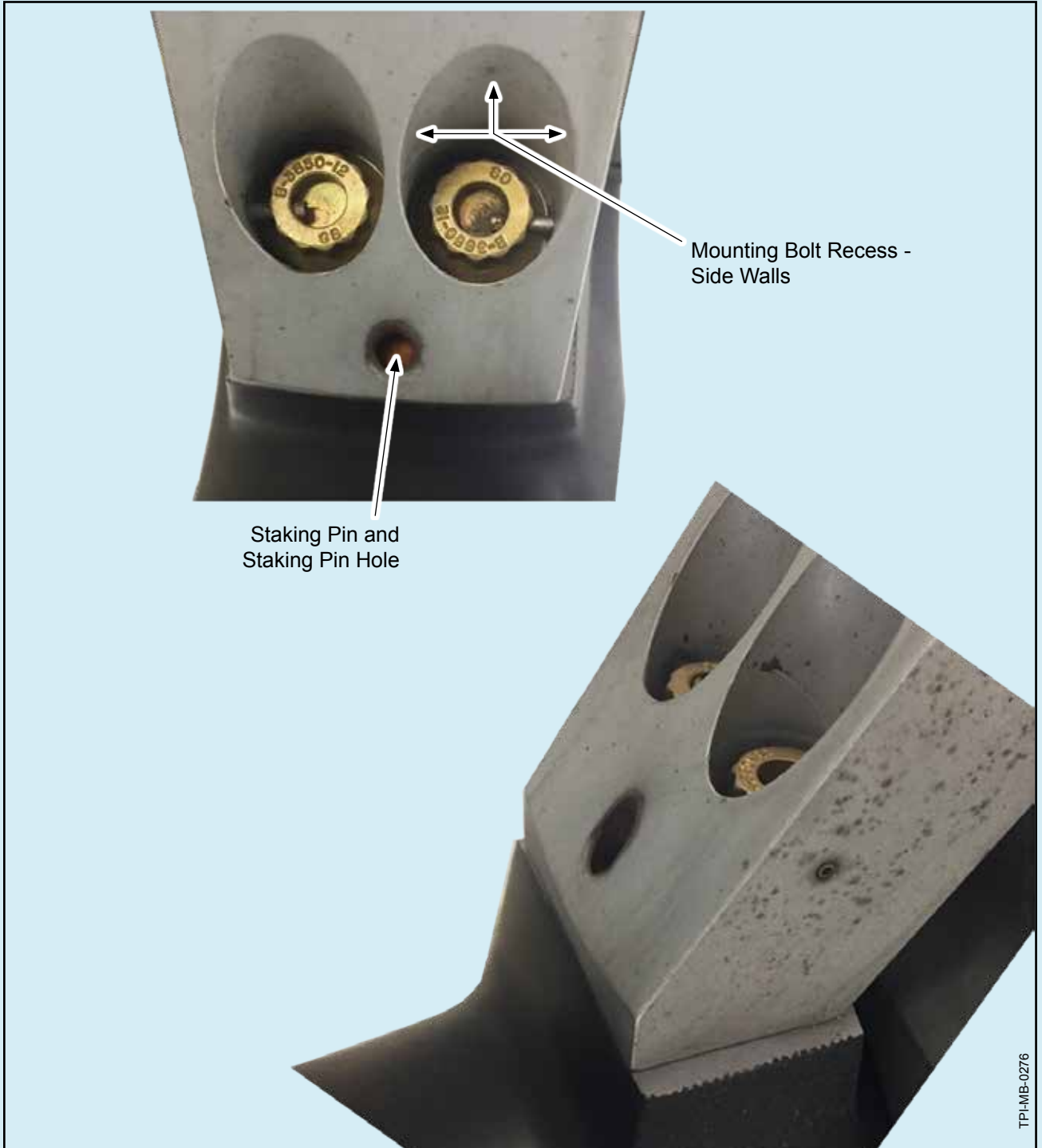
CAUTION: INSTRUCTIONS AND PROCEDURES IN THIS ALERT SERVICE BULLETIN MAY INVOLVE PROPELLER CRITICAL PARTS. REFER TO THE APPLICABLE PROPELLER OVERHAUL OR OWNER'S MANUAL FOR INFORMATION ABOUT PROPELLER CRITICAL PARTS.

A. Visual Inspection

- (1) Remove the spinner dome in accordance with Hartzell Propeller Inc. Owner's Manual 149 (61-00-49).
  - (a) The spinner dome fasteners can be reused.
- (2) Visually examine the following surfaces for corrosion (refer to Figure 1):
  - Counterweight Mounting Bolts
  - Mounting Bolt Recesses - Bottom Surface  
(If there is sealant on this surface, do not remove it for visual inspection).
  - Counterweight/Counterweight Boss Mating Surface and the Adjacent Surfaces on the Counterweight and the Blade
  - (a) If corrosion is found on any of these surfaces:
    - 1 Before further flight, remove the propeller from the aircraft in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 149 (61-00-49), then perform the Counterweight/Blade Inspection and Repair procedure in accordance with the instructions in this Alert Service Bulletin.
      - a The Counterweight/Blade Inspection and Repair procedure must be performed by a certified propeller repair station with the appropriate rating.



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**Visual Inspection** (*Corrosion on these surfaces can be removed*)

**Figure 2**

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### Blade - Counterweight Inspection

(3) Visually examine the following surfaces for corrosion (refer to Figure 2):

- Staking Pin and Staking Pin Hole
- Mounting Bolt Recesses - Side Walls
- All other Counterweight surfaces not specified in step 3.A.(2)

(a) If corrosion is found on any of these surfaces:

- 1 Using Stoddard solvent CM23 and an abrasive pad CM47 or equivalent, clean these surfaces, then apply corrosion inhibitor CM352 or equivalent.

CAUTION: DO NOT USE BLADE PADDLES TO TURN BLADES.

a If necessary, use the unfeathering tool TE316 or equivalent to move the blades to an angle that will permit access to the counterweight surfaces.

- (1) Turn the threaded rod of the unfeathering tool TE316 onto the end of the pitch change rod as far as possible.

WARNING: TIGHTEN THE THREADED ROD UNTIL IT IS SNUG. THE FEATHERING SPRING IS PRELOADED WITH APPROXIMATELY 600 LBS. (271.8 KG) OF FORCE. FAILURE TO TIGHTEN THE THREADED ROD ONTO THE PITCH CHANGE ROD CAN CAUSE THE FEATHERING SPRING TO RELEASE WHEN MOVING THE BLADES BACK TO FEATHER. THIS CAN CAUSE PROPELLER DAMAGE, SERIOUS INJURY AND/OR DEATH.

(a) Tighten the threaded rod until it is snug.

- (2) Put the cylindrical part of the unfeathering tool TE316 over the threaded rod and put it on top of the cylinder.

(a) Put the notch in the bottom of the unfeathering tool TE316 over the stop plate on the top of the cylinder.



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**B. Counterweight/Blade Inspection and Repair**

- (1) This procedure must be performed by a certified propeller repair station with the appropriate rating.
- (2) Remove and discard the counterweight attaching hardware.
- (3) Remove the counterweights in accordance with the Blade Shank Overhaul chapter in Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33).
- (4) Inspect the counterweights and blades in accordance with the Blade Shank Overhaul chapter in Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33).
  - (a) If required, repair or replace components in accordance with the Blade Shank Overhaul chapter in Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33).
- (5) Install the counterweights and reassemble the propeller in accordance with the Hartzell Propeller Inc. overhaul manuals listed below:
  - (a) Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33)
  - (b) Hartzell Propeller Inc. Four Blade Lightweight Turbine Propeller Overhaul Manual 142 (61-10-42)
- (6) Make an entry in the propeller logbook indicating the Counterweight/Blade Inspection and Repair procedure was completed as terminating action for this Alert 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](http://www.hartzellprop.com).

D. Contact Information

Hartzell Propeller Inc.  
Attn.: Hartzell Propeller Inc. Product Support  
One Propeller Place  
Piqua, Ohio 45356-2634 USA  
Phone: (001) 937.778.4379  
Fax: (001) 937.778.4215  
E-mail: [techsupport@hartzellprop.com](mailto:techsupport@hartzellprop.com)

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