

HARTZELL PROPELLER LLC
ALERT SERVICE BULLETIN
HM-ASB-003
Beta Rod Nut/Safety Wire Inspection

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller HM-(D,E)4N-3() Wing-In-Ground Effect lightweight turbine propellers are affected by this Alert Service Bulletin.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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 ALERT 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 website at www.hartzellprop.com for a cross-reference of service documents.

C. Reason

- (1) Hartzell Propeller LLC received information about an accident involving a propeller that went into uncommanded reverse during flight.
- (a) The accident investigation found safety wire securing the beta rod nuts and evidence of interference between the safety wire and the cylinder on the affected propeller. Refer to Figure 1.
- 1 Safety wire is **not** authorized for the beta rod nuts on affected propellers.

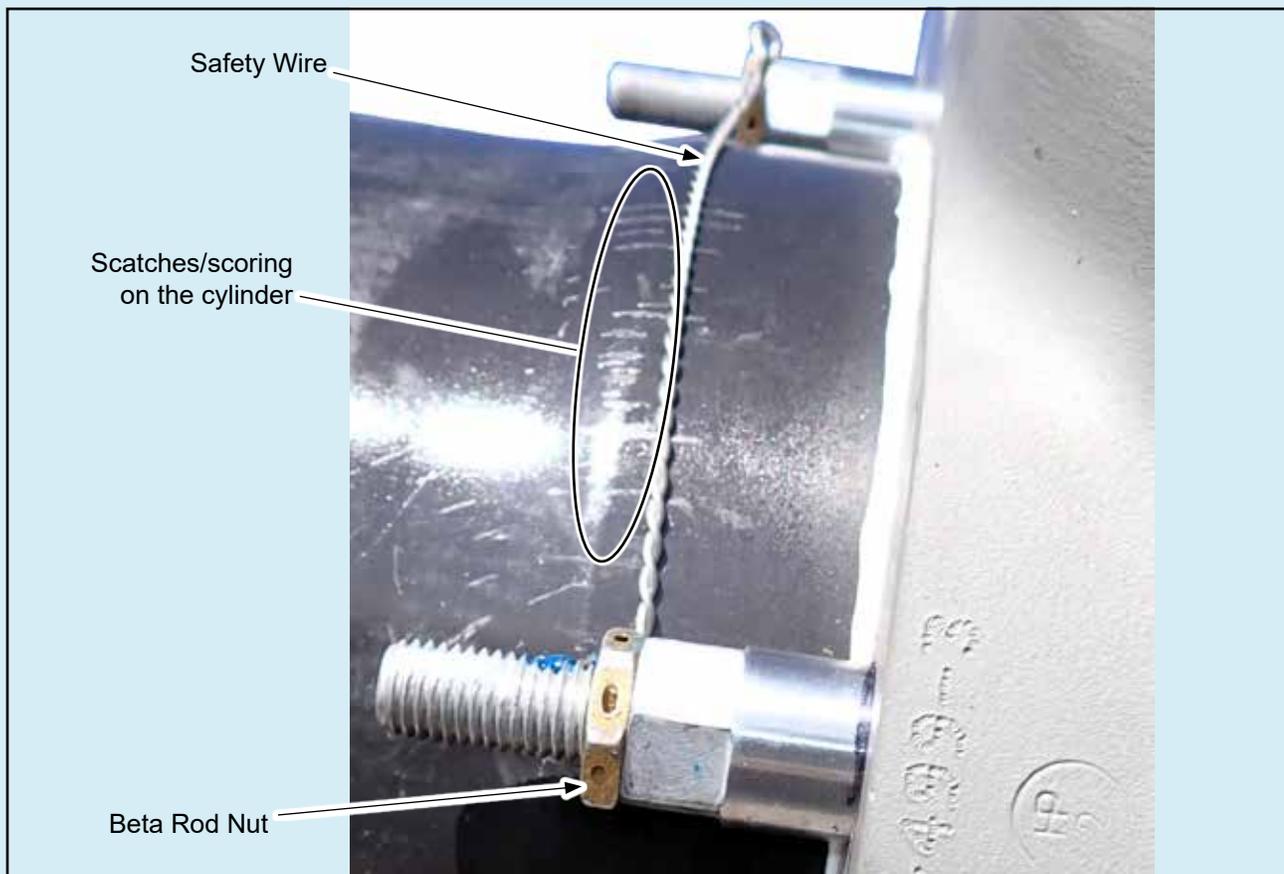
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D. Description

- (1) This Alert Service Bulletin provides Instructions for Continued Operation (ICO).
- (2) This Alert Service Bulletin provides instructions for a pre-operation inspection of the beta rod nuts on affected propellers.
- (3) This Alert Service Bulletin provides instructions for removing safety wire from the beta rod nuts on affected propellers (if present).



Safety Wire Interference
Figure 1

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E. Compliance

- (1) At the next pre-operation inspection, perform the Safety Wire Inspection in accordance with the Accomplishment Instructions section in this Alert Service Bulletin.

F. Approval

- (1) This technical document is approved by Hartzell Propeller LLC.

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PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH
THE MOST RECENT REVISION OF A DOCUMENT.

G. References

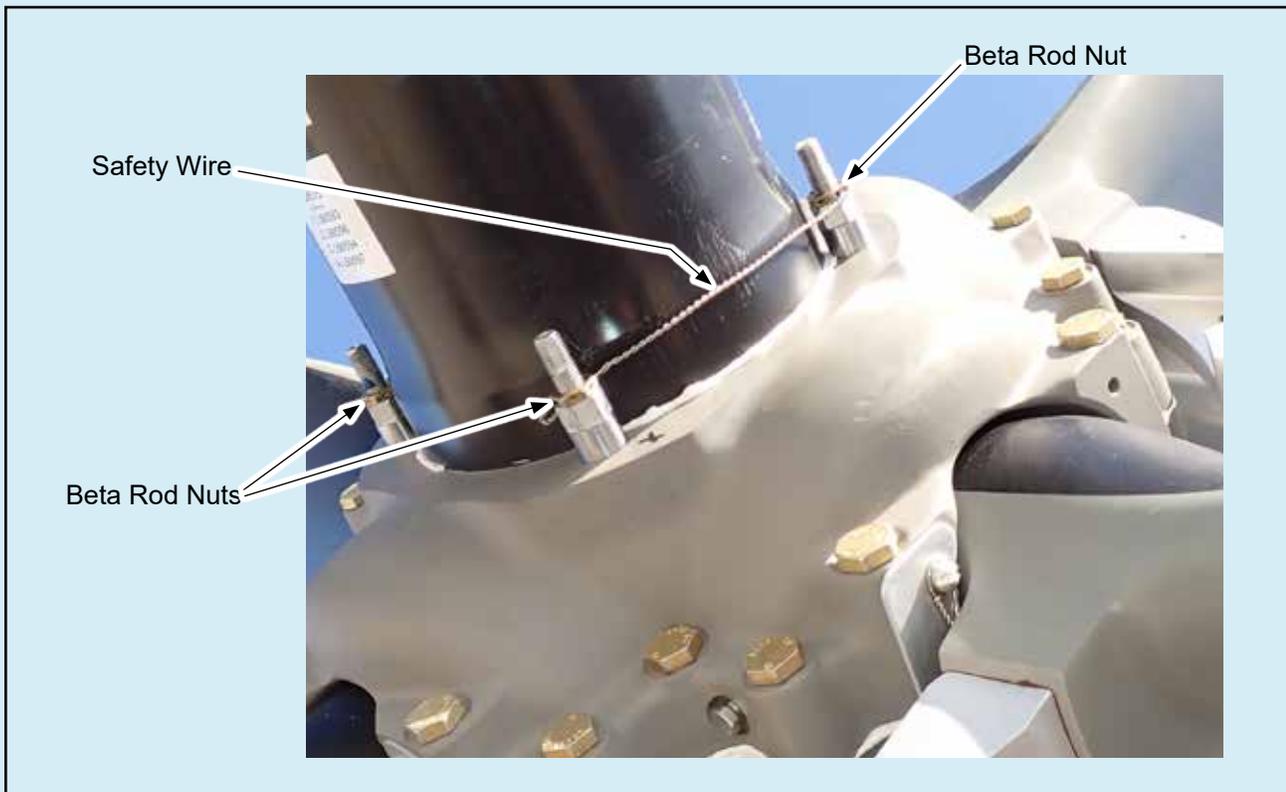
- (1) Hartzell Wing-in-Ground Effect Craft Propeller Owner's Manual 350
- (2) Hartzell Wing-in-Ground Effect Craft Propeller Overhaul Manual 360

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2. Accomplishment Instructions

A. Safety Wire Inspection

- (1) Using an appropriate light source, examine the fore-side beta rod nuts through the blade cutouts in the spinner dome. (Refer to Figure 2 - for clarity, the spinner dome is not shown)
 - (a) If there is safety wire on the beta rod nuts:
 - 1 Before further operation, remove the safety wire in accordance with the instructions in this Alert Service Bulletin.
 - (b) If there is no safety wire on the beta rod nuts:
 - 1 Make a record of this inspection in the propeller logbook indicating compliance with this Alert Service Bulletin.
 - 2 No further action is required.

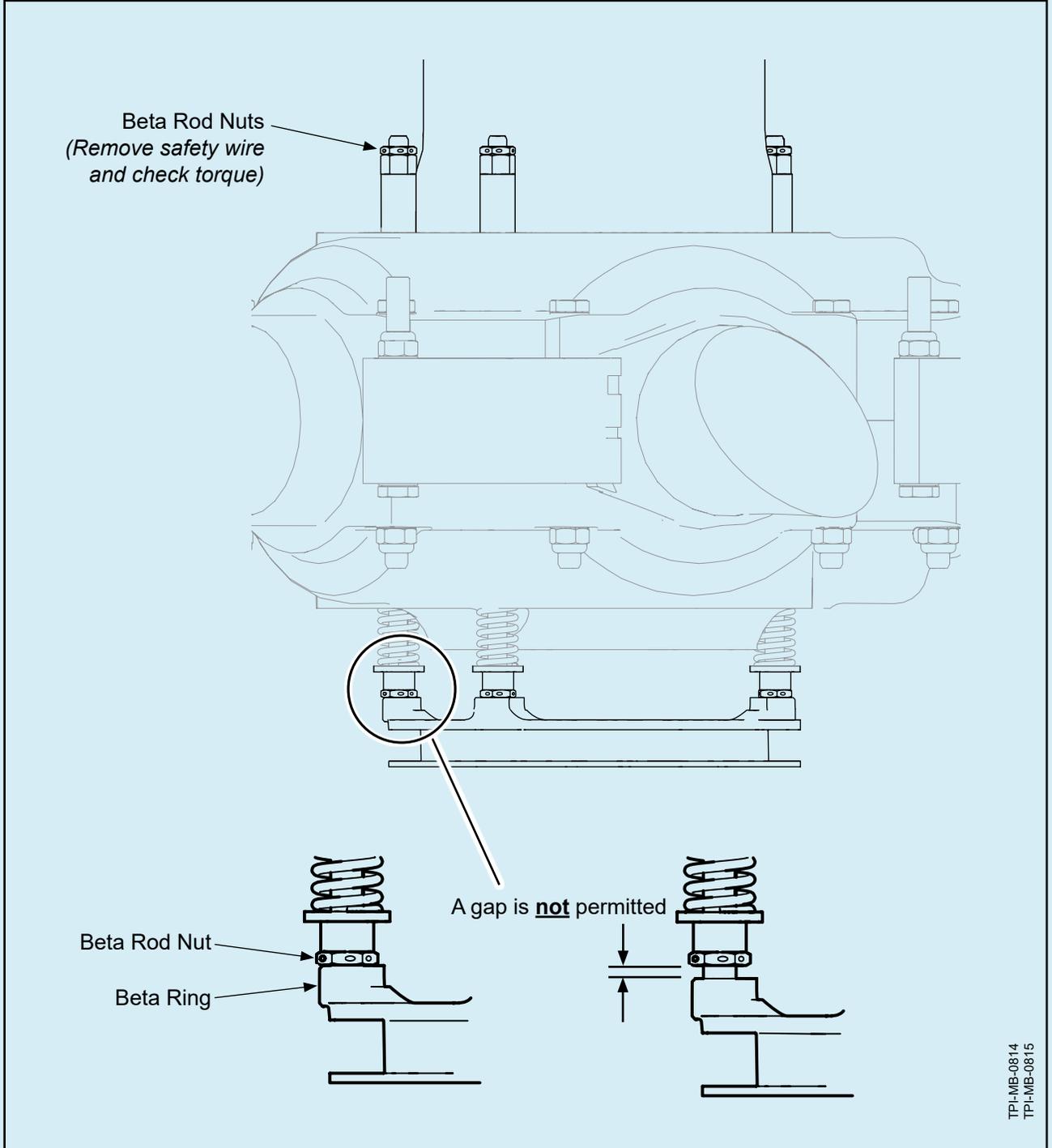


Beta Rod Nut Inspection
Figure 2

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Beta Rod Nut/Safety Wire Inspection



Beta Rod Nut Inspections
Figure 3

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B. Safety Wire Removal/Beta Rod Nut Inspection

NOTE: Safety wire removal must be performed by a certified airframe and powerplant mechanic with the appropriate rating or by a certified propeller repair station with the appropriate rating.

- (1) Remove the spinner dome in accordance with Hartzell Propeller Owner's Manual 350.
- (2) Remove the safety wire between the fore-side beta rod nuts.
- (3) Using a calibrated torque wrench, verify the torque on the fore-side beta rod nuts is 120 In-Lbs (13.5 N•m) \pm 10%.
- (4) Visually examine the aft-side beta rod nuts in accordance with Figure 3 and the following steps:
 - (a) If the beta rod nuts are flush against the beta ring, go to step (5).
 - (b) If there is a gap between the beta rod nut(s) and the beta ring:
 - 1 Remove the propeller in accordance with Hartzell Propeller Owner's Manual 350.

NOTE: The beta ring height and run-out check must be performed by a certified propeller repair station with the appropriate rating.

- 2 Check the beta ring height and perform a beta ring run-out check in accordance with Hartzell Propeller Overhaul Manual 360.
 - 3 Install the propeller in accordance with Hartzell Propeller Owner's Manual 350.
- (5) Install the spinner dome in accordance with Hartzell Propeller Owner's Manual 350.
- (6) Make an entry in the propeller logbook indicating the safety wire removal/beta rod nut inspection was performed in accordance with this Alert Service Bulletin.

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C. Recommended Service Facilities

- (1) Hartzell Propeller LLC has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.
- (2) Each service facility must meet specific requirements before being recommended by Hartzell. Each service facility is audited by Hartzell Propeller to verify compliance with Hartzell standards.
- (3) Hartzell Propeller recommends that you use one of these service facilities when having your propeller overhauled or repaired.
- (4) For a current list of Hartzell Propeller Recommended Service Facilities, contact Hartzell Product Support or refer to the Hartzell website at www.hartzellprop.com.

D. Contact Information

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