

HARTZELL PROPELLER INC.
SERVICE BULLETIN
HC-SB-61-343
Propeller - New Mounting Flange Torque

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. aluminum hub compact propellers HC-() (3,4)YR-(1,2,4) installed on Lycoming IO-720 engines are affected by this Service Bulletin.

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. 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 SERVICE BULLETIN INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN.

B. Concurrent Requirements

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

C. Reason

- (1) The mounting torque for the affected installations was originally established at 90-100 ft-lbs (123-135 N•m), a greater torque than other aluminum hub compact propeller installations.
- (2) The greater torque value could increase the possibility of shallow cracks in the hub mounting flange.
- (3) A new mounting torque of 60-70 ft-lbs (81.4-95 N•m) has been established to lower some compressive forces applied to the mounting flange.
 - (a) Hartzell Propeller Owner's Manual 115, Revision 18, dated February, 2013 includes the new torque value.
- (4) Regulatory action is not expected.

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D. Description

- (1) This document provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin requires the new mounting torque of 60-70 ft-lbs (81.4-95 N•m) to be used during all future installations of the affected propeller models.
- (3) This Service Bulletin introduces a visual inspection of the propeller mounting flange on an affected propeller model.
- (4) This Service Bulletin requests notification to Hartzell Propeller Inc. of any hub cracks, defects, etc. found during normal repair or overhaul on affected propeller models from propeller repair facilities.

E. Compliance

- (1) Perform the accomplishment instructions in this Service Bulletin during the next propeller installation or annual inspection, whichever occurs first.
- (2) Perform the visual inspection of the mounting flange at each subsequent propeller installation.

F. Approval

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

G. Manpower

- (1) For a propeller model that does not have an ice protection system, approximately 2.5 man hours are required for removal, inspection, and installation when performed in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15).
- (2) For a propeller model that does have an ice protection system, approximately 3 man hours are required for removal, inspection, and installation when performed in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15).

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not changed

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J. References

- (1) Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15)

K. Other Publications Affected

- (1) Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15)

2. Material Information

A. None

NOTE: If cracks, defects, etc. are found by a propeller repair facility during normal repair or overhaul, report findings on the Mounting Flange Inspection Form in this Service Bulletin and fax or e-mail it to Hartzell Propeller Inc. Product Support.

3. Accomplishment Instructions

- A. Personnel performing removal, inspection, and installation are expected to have sufficient training and certifications (when required by the applicable aviation authority) to accomplish the work required in a safe and airworthy manner.
- B. Remove the propeller in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15).
- C. Visually inspect, using at least 10x magnification, the engine side of the propeller hub mounting flange for signs of cracking, defects, etc.
 - (1) If cracks, defects, etc. are found, complete the Mounting Flange Inspection Form in this Service Bulletin and fax or e-mail it to Hartzell Propeller Inc. Product Support.
- D. Install the propeller in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 115N (61-00-15).
 - (1) Torque (dry torque) the mounting bolts to 60-70 ft-lbs (81.4-95 N-m).

NOTE: This is a new torque value. Previous torque was 90-100 ft-lbs (123-135 N-m).

- E. Make an entry in the propeller logbook indicating compliance with this Service Bulletin.

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F. Recommended Service Facilities

- (1) Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities that are recommended by Hartzell Propeller Inc. for overhaul and repair of our products.
- (2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller Inc. 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; select Service & Support then Recommended Service Facilities.

G. 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) 937.778.4391
E-mail: techsupport@hartzellprop.com

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Mounting Flange Inspection Form

Owner Information:

Name: _____ Phone: _____
Address: _____ Fax: _____
_____ E-Mail: _____
City: _____ Zip/Postal Code: _____
State: _____ Country: _____

Service Facility Performing Inspection:

Company: _____ Phone: _____
Contact Name: _____ Fax: _____
Address: _____ E-Mail: _____

City: _____ Zip/Postal Code: _____
State: _____ Country: _____

Crack, defect, etc. found during 10x visual inspection.

Crack, defect, etc. found during propeller repair or overhaul at propeller repair facility.

Propeller Information:

Propeller Model: _____ Propeller S/N: _____

List affected hub by serial number:

Hub S/N:	Hub TSN:	Hub TSO:	Date of Last Hub Overhaul:

Inspection Findings:

Send this Mounting Flange Inspection Form and Documentation of hub TSN or TSO to:
Hartzell Propeller Inc. Product Support
Fax: (001) 937.778.4391
E-Mail: techsupport@hartzellprop.com

NOTE: This form is available electronically on our website at www.hartzellprop.com

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