

HARTZELL PROPELLER INC.
SERVICE LETTER

HC-SL-61-368

Introduction of Redesigned Propeller Hubs

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. ()HC-()3Y(D,F,R,N)-(1,2,4,5,7)() compact propellers are affected by this Service Letter.
 - (a) Hartzell Propeller Inc. lightweight compact propellers (example HC-C3Y1R-1) are not affected by this Service Letter.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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.

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 Inc. website at www.hartzellprop.com for a cross-reference of service documents.

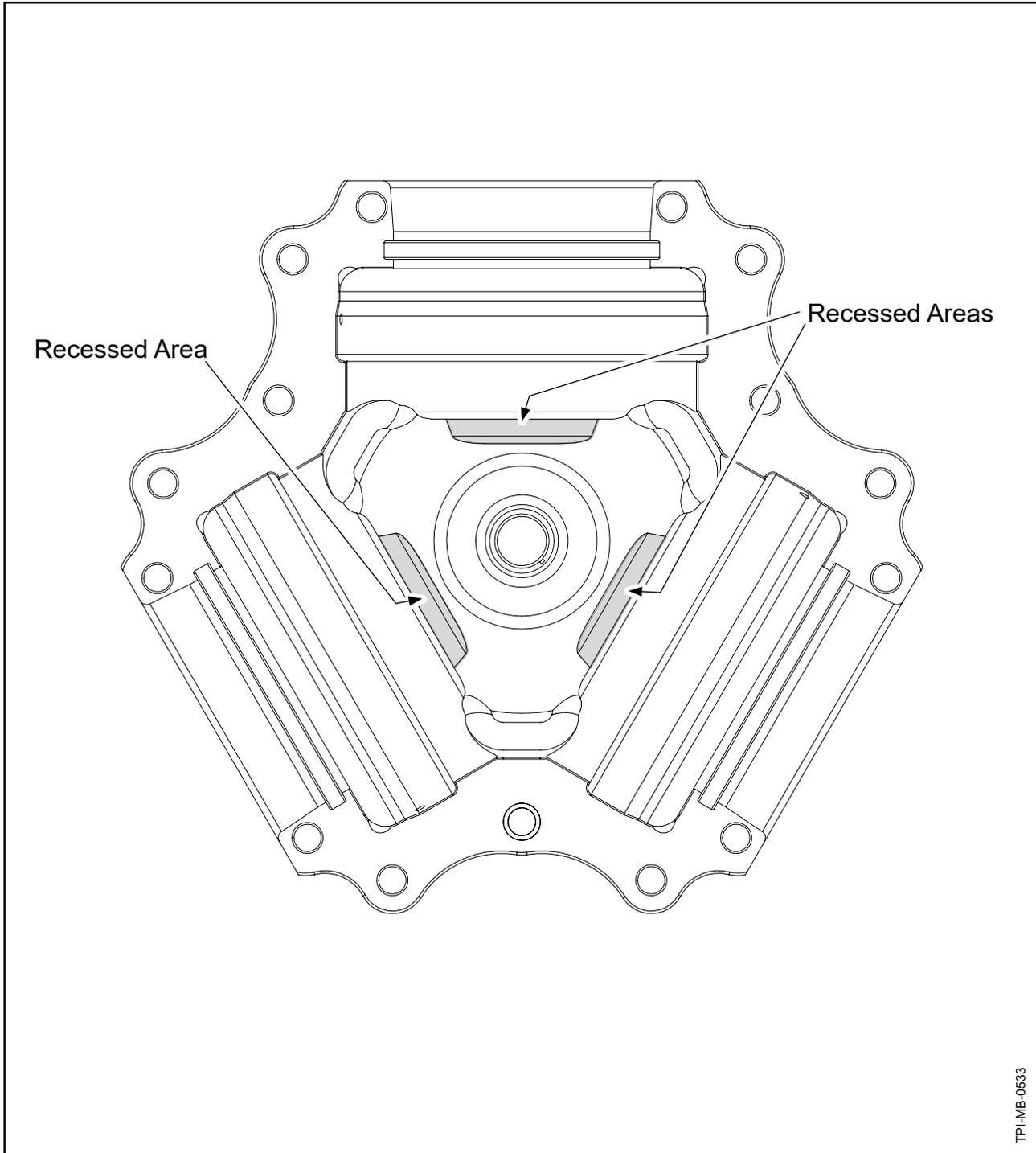
C. Reason

- (1) Hartzell Propeller Inc. has received reports of the pitch change bracket mounting bolts causing damage to the central web area of the hub on affected propellers that have 7690 or 7890 blades installed.
- (2) Hartzell Propeller Inc. has redesigned the hub units used on the affected propellers.
 - (a) The redesigned hub units have recesses in the central web area to eliminate interference with the pitch change knob bracket mounting bolts. Refer to Figure 1.

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TPI-MB-0633

**Redesigned Hub Units
Figure 1**

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D. Description

- (1) This Service Letter provides Additional Maintenance Information (AMI).
- (2) This Service Letter introduces the redesigned hub units used on the affected propellers.
 - (a) Refer to Table 1 in the Material Information section of this Service Letter for the part number/revision level information for the redesigned hub units.
- (3) This Service Letter provides instructions for modifying hub units that were manufactured prior to the redesign.

E. Approval

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

F. References

- (1) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)

G. Other Publications Affected

- (1) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)

2. Material Information

A. Redesigned Hub Part Numbers/Revision Levels

- (1) Table 1 lists the part numbers and revision levels for the redesigned hub units.

Part Number	Description	Revision Level (new design)
101441-11	PCP: Hub Unit, HC-C3YV-(2,4)	C (or later)
101441-11R	PCP: Hub Unit, HC-C3YV-4()	C (or later)
102527	PCP: Hub Unit, HC-G3YR-(2,4)	F (or later)
102527R	PCP: Hub Unit, HC-G3YR-(2,4)R	E (or later)
105276-11	PCP: Hub Unit, HC-E3YR-1	C (or later)
105276-11R	PCP: Hub Unit, HC-E3YR-1R	C (or later)
105276-12R	PCP: Hub Unit, HC-F3YR-1()	C (or later)
105309-41R	PCP: Hub Unit, C3YR-1NW	A (or later)
105428RWX	PCP: Hub Unit, HC-G3YR-1(N,R)WX	A (or later)
105993-41R	PCP: Hub Unit, HC-I3YR-1R	A (or later)

Redesigned Hub Unit Part Numbers/Revision Levels
Table 1

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Part Number	Description	Revision Level (new design)
105995-41R	PCP: Hub Unit, HC-C3YR-1R	A (or later)
105998-11	PCP: Hub Unit, HC-C3YR-(2,4)	A (or later)
105999-11	PCP: Hub Unit, HC-I3YR-(2,4)	A (or later)
106281-41RX	PCP: Hub Unit, HC-L3YR-1JX	A (or later)
E-7152-41	PCP: Hub Unit, HC-C3YN-1	C (or later)
E-7154-41	PCP: Hub Unit, HC-C3YF-1	D (or later)
E-7154-41R	PCP: Hub Unit, HC-C3YF-1R	E (or later)
E-7154-42R	PCP: Hub Unit, PHC-C3YF-1(R)	E (or later)
E-7154-43R	PCP: Hub Unit, (P,E)HC-L3YF-1R	E (or later)
E-7154-44R	Hub Unit, (E,P)HC-(C,G,L)3YF-1(R)	E (or later)
E-7154-45R	PCP: Hub Unit, (P,E)HC-G3YF-1R	E (or later)
E-7154-46R	PCP: Hub Unit, HC-L3YF-1R	H (or later)
E-7154-46RX	PCP: Hub Unit, HC-L3YF-1RX	H (or later)
E-7155-41R	PCP: Hub Unit, PHC-I3YF-1R	A (or later)
E-7155-42R	PCP: Hub Unit, HC-I3YF-1R	B (or later)
E-7156-11	PCP: Hub Unit, HC-H3YF-1	G (or later)
E-7156-11R	PCP: Hub Unit, HC-H3YF-1R	H (or later)
E-7156-12	PCP: Hub Unit, PHC-J3YF-1	G (or later)
E-7156-13R	PCP: Hub Unit, HC-J3YF-1R	H (or later)
E-7156-14R	PCP: Hub Unit, PHC-J3YF-1R	J (or later)
E-7156-14R	PCP: Hub Unit, PHC-J3YF-1R	J (or later)
E-7156-15R	PCP: Hub Unit, PHC-H3YF-1R	G (or later)
E-7157-41	PCP: Hub Unit, HC-C3YR-1	C or later
E-7157-41R	PCP: Hub Unit, HC-C3YR-1R	D (or later)
E-7159-41R	PCP: Hub Unit, HC-I3YR-1R	D (or later)
E-7159-42R	PCP: Hub Unit, HC-M3YR-1R	D (or later)
E-7160-11R	PCP: Hub Unit, HC-F3YR-1R	G (or later)
E-7161-11	PCP: Hub Unit, HC-E3YR-1	E (or later)
E-7161-11R	PCP: Hub Unit, HC-E3YR-1R	F (or later)
E-7161-12R	PCP: Hub Unit, HC-F3YR-1AR	G (or later)
E-7162-11	PCP: Hub Unit, HC-C3YN-(2,4)	C (or later)
E-7163-11	PCP: Hub Unit, HC-C3YN-5A	C (or later)
E-7163-12	PCP: Hub Unit, HC-C3YN-5B	C (or later)

Redesigned Hub Unit Part Numbers/Revision Levels
Table 1, continued

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Part Number	Description	Revision Level (new design)
E-7164-11	PCP: Hub Unit, HC-H3YN-2	D (or later)
E-7166-11	PCP: Hub Unit, HC-C3YF-5	F (or later)
E-7167-11	PCP: Hub Unit, HC-C3YF-(2,4)	F (or later)
E-7167-12	PCP: Hub Unit, PHC-C3YF-(2,4)	G (or later)
E-7167-13	PCP: Hub Unit, HC-G3YF-(2,4)	F (or later)
E-7167-14	PCP: Hub Unit, (P,E)HC-G3YF-(2,4)	G (or later)
E-7168-11	PCP: Hub Unit, HC-I3YF-(2,4)	D (or later)
E-7168-12	PCP: Hub Unit, (P,E)HC-I3YF-(2,4)	E (or later)
E-7169-11	PCP: Hub Unit, HC-H3YF-(2,4)	H (or later)
E-7169-12	PCP: Hub Unit, PHC-J3YF-(2,4)	G (or later)
E-7169-13	PCP: Hub Unit, PHC-J3YF-(2,4)	I (or later)
E-7169-14	PCP: Hub Unit, HC-J3YF-(2,4)	H (or later)
E-7169-15	PCP: Hub Unit, PHC-H3YF-(2,4)	G (or later)
E-7172-11	PCP: Hub Unit, HC-C3YR-(2,4)	C (or later)
E-7172-11R	PCP: Hub Unit, HC-C3YR-(2,4)	C (or later)
E-7173-11	PCP: Hub Unit, HC-I3YR-(2,4)	D (or later)
E-7174-11	PCP: Hub Unit, HC-F3YR-(2,4)	G (or later)
E-7175-11	PCP: Hub Unit, HC-E3YR-(2,4)	G (or later)
E-7175-12	PCP: Hub Unit, HC-F3YR-(2,4)	F (or later)
E-7176-11	PCP: Hub Unit, HC-E3YR-7	A (or later)
E-7502-11X	PCP: Hub Unit, HC-J3YF-5F_X	D (or later)
E-7751-10	PCP: Hub Unit, PHC-C3YD-(2,4)	F (or later)

**Redesigned Hub Unit Part Numbers/Revision Levels
Table 1, continued**

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3. Accomplishment Instructions

A. Modifying Hub Units Manufactured Prior to the Redesign

NOTE: Hub units with revision levels prior to the redesign can be machined to add the recessed areas shown in Figure 1. Refer to Table 1 in this Service Letter for the revision levels of the redesigned hub units.

- (1) The Aluminum Hub Overhaul chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (661-01-02) provides instructions to machine the recessed areas shown in Figure 1 into the central web area of hub units that were manufactured prior to the redesign.

B. 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.

C. 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