

HARTZELL PROPELLER INC.
SERVICE BULLETIN

TRANSMITTAL SHEET

HC-SB-61-269

Propeller - Hub Inspection

September 28, 2006

This page transmits Revision 2 to Service Bulletin HC-SB-61-269.

- Original Issue, dated Apr 18/05
- Revision 1, dated Jun 01/06
- Revision 2, dated Sep 28/06

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

Some of these changes that do not affect technical content may not be highlighted in this transmittal sheet.

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

This revision is issued to change the following in the Service Bulletin:

- Clarified effectivity of hub with "E" suffix letters
- changed repetitive interval to add 12 calendar months

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HARTZELL PROPELLER INC.
SERVICE BULLETIN
HC-SB-61-269
Propeller - Hub Inspection

1. Planning Information

A. Effectivity

- (1) Hartzell two blade, aluminum hub, "compact" ()HC-()2Y()-() series propellers manufactured before December 1991 and have no suffix letter, or have an "E" suffix letter at the end of the hub and propeller serial number and installed on Lycoming 360 series engines are affected by this Service Bulletin. Propellers with a suffix letter "A" or "B" at the end of the hub and propeller serial number are not affected by this Service Bulletin.
- (2) Propellers installed on aircraft listed in Table 1 are not affected by this Service Bulletin. Propellers installed on these applications must comply with the inspection requirements specified in Hartzell Service Bulletin HC-SB-61-227 and Airworthiness Directive 2001-23-08.

NOTE 1: The parenthesis shown in the model designations throughout this Service Bulletin indicate letter(s) and/or number(s) that may or may not be present because of different configurations permitted on the various aircraft installations. Definition of propeller model designations and further details of letters that may be present are shown in Figure 1.

NOTE 2: Hub and propeller serial numbers without suffix letter "A" or "B" were manufactured before 1991 and can be identified by two different styles of the fillet radius as shown in Figure 2. The "E" suffix letter is added to the hub with no suffix serial number to indicate that the initial eddy current inspection has been performed in accordance with this Service Bulletin and a repetitive eddy current inspection is required.

B. Concurrent Requirements

- (1) Hartzell Service Bulletin HC-SB-61-227 and AD 2001-23-08 may instead be applicable, depending on the aircraft and engine type.
- (2) Installation of a "B" serial number suffix hub will require spinner bulkhead modification or replacement in accordance with the Repair/Modification chapter of Hartzell Spinner Assembly Maintenance Manual 127 (61-16-27).

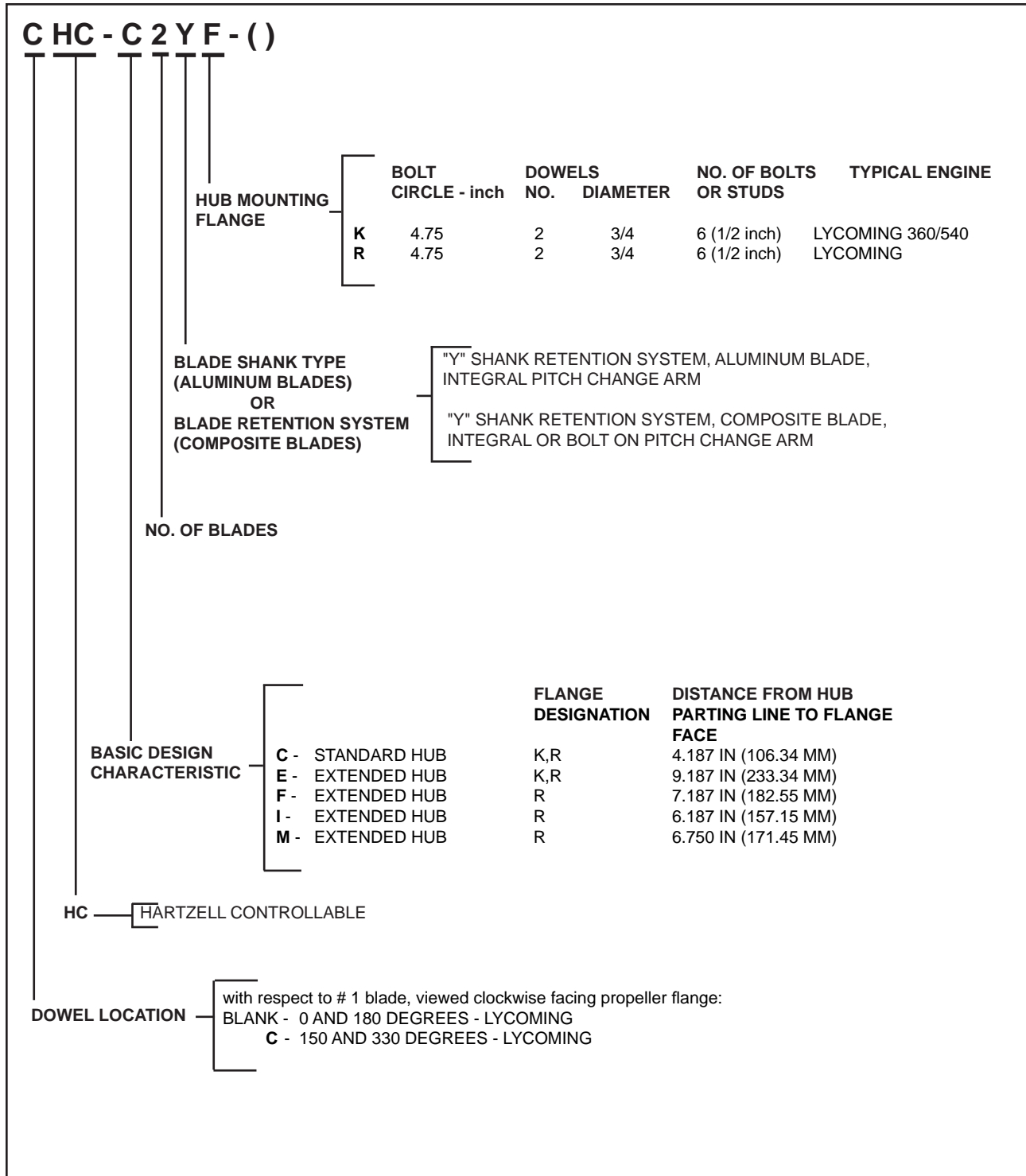
NOTE: Applications with non-Hartzell spinner assemblies should contact the appropriate Type Certificate holder for rework instructions.

HARTZELL PROPELLER INC.

SERVICE BULLETIN

HC-SB-61-269

Propeller - Hub Inspection



Model Designations for Aluminum Hub, Reciprocating Engine Propellers

Figure 1

HARTZELL PROPELLER INC.
SERVICE BULLETIN
HC-SB-61-269
Propeller - Hub Inspection

C. Reason

WARNING: UNUSUAL OR ABNORMAL GREASE LEAKAGE OR VIBRATION, WHERE THE CONDITION INITIATED SUDDENLY, CAN BE AN INDICATION OF A FAILING PROPELLER BLADE OR BLADE RETENTION COMPONENT. AN INFLIGHT BLADE SEPARATION MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. UNUSUAL OR ABNORMAL GREASE LEAKAGE OR VIBRATION DEMANDS IMMEDIATE INSPECTION FOR POSSIBLE CRACKED HUB (for further information on this subject see Hartzell Service Letter HC-SL-61-165).

- (1) There have been numerous occurrences of hub fillet cracks, including incidents of in-flight blade separation in Hartzell two blade "compact" series aluminum hub propellers.
- (2) Cracks were typically discovered during an inspection following reports of abnormal vibration or grease leakage. Cracks typically initiate at the same region of the hub in the area adjacent to the blade called the "fillet radius". As the cracks propagate toward the center of the hub, their progression accelerates and may result in failure of one hub half that can further progress to blade separation.
- (3) Airworthiness Directive 2006-18-15 was issued to address the inspection requirements specified in this Service Bulletin.

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HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

1. Pricing Information

<u>Previous Hub Part Number</u>	<u>Current Hub Part Number</u>	<u>Keyword</u>	<u>2006 List Price</u>
D-2201-2	D-6522-1	Hub Unit	\$2,725.00
D-2201-2R	D-6522-1R	Hub Unit	\$2,873.00
D-2201-3	D-6529-1	Hub Unit	\$2,732.00
D-2201-16	D-6522-1	Hub Unit	\$2,725.00
D-2201-17	D-6529-1	Hub Unit	\$2,732.00
D-2477-3	D-6564-1	Hub Unit	\$3,678.00
D-4214	D-6557-2	Hub Unit	\$3,622.00
D-4214-5	D-6558-2	Hub Unit	\$3,581.00
D-4214-7	D-6557-1	Hub Unit	\$3,151.00

NOTE 1: Hub list prices are provided as information only. Refer to paragraph 4., Special Replacement Program, in this appendix, for instructions regarding replacement hubs.

2. Availability/Lead Time

A sufficient quantity of replacement hubs are being produced to allow replacement of all affected hubs within the specified compliance period.

3. Price/Lead Time Validity

List prices are current at time of publication and subject to change.

Propeller Model: <u> ()HC-()2Y()-() </u>	Document No. <u> HC-SB-61-269 </u>	Revision <u> 2 </u>
Component Part Number: <u> Various </u>	Date of Issue: <u> April 18/05 </u>	Rev. Date: <u> Sep 28/06 </u>

HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

4. Special Pricing Program

A. Hartzell will allow purchase of a "B" suffix serial number hub at a 50 percent discount off list price when the propeller is overhauled in accordance with the recommended overhaul intervals (calendar and operating hours) as specified in Hartzell Service Letter HC-SL-61-61Y.

(1) An affected propeller that has been overhauled previously in accordance with Hartzell Service Letter HC-SL-61-61() is eligible for a specially priced hub until next recommended overhaul. To qualify, the following documentation must be submitted to Hartzell:

- (a) Copy of maintenance release tag, FAA Form 8130-3 or JAA Form 1 indicating current propeller overhaul or a copy of applicable log book pages which must include date, TSN and specify that current propeller overhaul was performed.
- (b) Copy of applicable log book pages which must include date, TSN and showing that a previous propeller overhaul was performed in accordance with Hartzell Service Letter HC-SL-61-61().
- (c) A completed Service Bulletin Compliance Form (located on page 7 of this Appendix).
- (d) Facility overhauling the propeller assembly must retire the unserviceable hub from service in accordance with Hartzell Standard Practices Manual 202A (61-01-02).

(2) An affected propeller that has not been overhauled previously in accordance with Hartzell Service Letter HC-SL-61-61(), is eligible for a specially priced hub if an overhaul is performed before September 30, 2007. To qualify, the following documentation must be submitted to Hartzell:

- (a) Copy of maintenance release tag, FAA Form 8130-3 or JAA Form 1 indicating current propeller overhaul.
- (b) A completed Service Bulletin Compliance Form (located on page 7 of this Appendix).

Propeller Model: ()HC-()2Y()-()	Document No. HC-SB-61-269	Revision 2
Component Part Number: Various	Date of Issue: April 18/05	Rev. Date: Sep 28/06

HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

- (c) Facility overhauling the propeller assembly must retire the unserviceable hub from service in accordance with Hartzell Standard Practices Manual 202A (61-01-02).

NOTE: Only applications affected by this Service Bulletin are eligible for hubs at a 50 percent discount off list price.

- B. Hartzell will allow purchase of complete propeller assemblies containing a "B" suffix serial number hub at a 40 percent discount off list price on an exchange basis when purchased as terminating action for this Service Bulletin. Specially priced propeller assemblies must be ordered before September 30, 2007.

- (1) The propeller assembly must be purchased from a Hartzell Network facility or direct from Hartzell Propeller Inc. To qualify, a completed Service Bulletin Compliance Form (located on page 7 of this Appendix) must be submitted to Hartzell.

NOTE: Only applications affected by this Service Bulletin are eligible for propeller assemblies at a 40 percent discount off list price.

C. Replacement Hub Order Administration

- (1) Specially priced hubs when purchased as terminating action for Service Bulletin HC-SB-61-269 and replaced concurrent with propeller overhaul, will be administered as follows:

NOTE: The following information is applicable only to those propeller hubs which meet the terms and conditions detailed under Paragraph 4.A. or Paragraph 4.A., above.

- (a) Complete the attached Service Bulletin Compliance Form. Mail, e-mail, or fax (preferred method) compliance form and required documentation, to the attention of the Service Bulletin Coordinator as indicated on the Service Bulletin Compliance Form.

NOTE: Order for replacement hub will not be entered until the completed Service Bulletin Compliance Form, and required documentation, is received.

- (b) Upon receipt of the completed Service Bulletin Compliance Form, and applicable overhaul documentation, Hartzell will enter an order for the replacement hub.

Propeller Model: ()HC-()2Y()-()	Document No. HC-SB-61-269	Revision 2
Component Part Number: Various	Date of Issue: April 18/05	Rev. Date: Sep 28/06

HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

D. Propeller Order Administration

- (1) Specially priced propeller assemblies when purchased as terminating action for Service Bulletin HC-SB-61-269, will be administered as follows:

NOTE: The following information is applicable only to those propeller assemblies which meet the terms and conditions detailed under Paragraph 4.B., above.

- (a) Complete the attached Service Bulletin Compliance Form. Mail, e-mail, or fax (preferred method) compliance form to the attention of the Service Bulletin Coordinator as indicated on the Service Bulletin Compliance Form.

NOTE: Order for replacement propeller assembly will not be entered until the completed Service Bulletin Compliance Form is received.

- (b) Upon receipt of the completed Service Bulletin Compliance Form, Hartzell will enter an order for the replacement propeller assembly.
- (c) Ship the unserviceable propeller assembly to Hartzell:

Hartzell Propeller Service Center
Attn.: Service Bulletin HC-SB-61-269 Coordinator
5465 W. State Route 185
Piqua, Ohio 45356-2634 USA

NOTE 1: Be sure to reference Return Material Authorization Number on the return shipment. Replacement propeller packaging should be used to return exchange propeller.

NOTE 2: The unservicable propeller assembly must be received within 30 days of shipment of replacement propeller. The Facility that ordered the replacement propeller will be invoiced for full list price if unservicable propeller is not returned to Hartzell with the 30 days.

Propeller Model: ()HC-()2Y()-()	Document No. HC-SB-61-269	Revision 2
Component Part Number: Various	Date of Issue: April 18/05	Rev. Date: Sep 28/06

HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

E. Hartzell Contact Information

- (1) Please complete the compliance/claim form on page 7 for each hub or propeller assembly identified in paragraph 1.A. Effectivity, of this Service Bulletin and meeting the terms and conditions detailed under Paragraph 4.A.(1,2) and 4.B.(1), of this Appendix, and fax or mail to:

NOTE: Overhaul documentation is required for replacement hubs.

Hartzell Propeller Inc.
Attn.: Service Bulletin 269 Coordinator
One Propeller Place
Piqua, Ohio 45356-2634 USA
Phone: 937.778.4379
Fax: 937.778.4391 (Intl. 001.937.778.4391)

- (2) The report form on page 7 is also available in electronic format on the Hartzell website. Go to www.hartzellprop.com, Product Support, Recent Service Documents.

Propeller Model: ()HC-()2Y()-()	Document No. <u>HC-SB-61-269</u>	Revision <u>2</u>
Component Part Number: <u>Various</u>	Date of Issue: <u>April 18/05</u>	Rev. Date: <u>Sep 28/06</u>

HARTZELL PROPELLER INC.
SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

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Propeller Model: ()HC-()2Y()-()	Document No. HC-SB-61-269	Revision 2
Component Part Number: Various	Date of Issue: April 18/05	Rev. Date: Sep 28/06

HARTZELL PROPELLER INC. SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

Service Bulletin Compliance Form

PO Number: _____

Propeller Model Number: _____

Propeller or Hub Serial Number: _____

Aircraft Model: _____

New Hub Part Number: _____

New Propeller Assembly Part Number: _____

Owner:

Name: _____

Address: _____

City: _____

State: _____ Zip: _____

Country: _____

Phone: _____

Performing Overhaul
and Retiring the Hub:

Returning Propeller Assembly

Signature for Repair Facility _____

Date: _____

Do not write below this line:

Propeller Repair Station:

Company: _____

ATTN: _____

Address: _____

City _____

State: _____ Zip: _____

Country: _____

Phone: _____

Fax: _____

RMA Number: _____ Warranty Claim Number: _____

Propeller Model: ()HC-()2Y()-() Document No. HC-SB-61-269 Revision 2

Component Part Number: Various Date of Issue: April 18/05 Rev. Date: Sep 28/06

HARTZELL PROPELLER INC.
SERVICE BULLETIN APPENDIX

HC-SBA-61-269

Propeller - Hub Inspection

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Propeller Model: ()HC-()2Y()-()	Document No. HC-SB-61-269	Revision 2
Component Part Number: Various	Date of Issue: April 18/05	Rev. Date: Sep 28/06
