

**HARTZELL PROPELLER INC.**  
**SERVICE BULLETIN**  
**TRANSMITTAL SHEET**  
**HC-SB-61-367**  
**Composite Blade - NC8834K Blade Replacement**

December 01, 2016

This page transmits a revision to Service Bulletin HC-SB-61-367.

- Original Issue, dated Aug 10/16
- Revision 1, dated Dec 01/16

Propeller assemblies that have previously complied with the terminating action in a previous revision of this Service Bulletin are not affected.

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

Revision 1 is issued to change the following in the Service Bulletin:

- Revised Table 1, "Serial Numbers of Affected NC8834K Blades"
- Revised Table 2, "Serial Numbers of HC-E5N-3C Propellers with Affected NC8834K Blades"

This Service Bulletin is reissued in its entirety.

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1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. NC8834K composite propeller blades with serial numbers listed in Table 1 are affected by this Service Bulletin.
  - (a) The affected blades were originally installed in Hartzell Propeller Inc. HC-E5N-3C lightweight turbine propellers with serial numbers listed in Table 2.
  - (b) The affected NC8834K blades and HC-E5N-3C propellers are installed on Socata TBM700, Tradename TBM900, TBM850 aircraft.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

C. Reason

- (1) Hartzell Propeller Inc. has identified a possible condition with the affected blades that could contribute to a delamination at the trail edge during certain object strike overload conditions.
  - (a) This condition resulted from a production issue that affected a limited number of blades produced before March 2015.
  - (b) This condition does not affect the airworthiness of the aircraft.
- (2) Regulatory action is not expected.

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Serial Numbers of Affected NC8834K Blades					
A7829	A8513	A8823	A9081	A9321	A9883
A7905	A8514	A8824	A9085	A9333	A9946
A7906	A8515	A8825	A9086	A9334	A9972
A7907	A8516	A8826	A9090	A9361	A9973
A7914	A8526	A8828	A9124	A9377	A9989
A7915	A8527	A8871	A9150	A9399	A9990
A7917	A8565	A8880	A9156	A9400	A9991
A7918	A8583	A8896	A9157	A9407	B0030
A8038	A8584	A8897	A9158	A9408	B0058
A8057	A8635	A8985	A9176	A9468	B0159
A8189	A8638	A8987	A9178	A9471	B0160
A8256	A8642	A9012	A9223	A9510	B0161
A8257	A8665	A9013	A9226	A9515	B0162
A8259	A8668	A9014	A9228	A9516	B0171
A8294	A8684	A9027	A9229	A9521	B0172
A8295	A8685	A9029	A9230	A9550	B0174
A8311	A8688	A9031	A9232	A9551	B0196
A8312	A8689	A9032	A9247	A9552	B0197
A8313	A8696	A9038	A9248	A9560	B0207
A8315	A8697	A9039	A9249	A9562	B0208
A8320	A8727	A9042	A9250	A9704	B0209
A8321	A8728	A9043	A9251	A9705	B0210
A8373	A8729	A9045	A9252	A9706	B0229
A8481	A8738	A9047	A9271	A9717	B0230
A8482	A8739	A9049	A9272	A9718	-
A8509	A8757	A9077	A9273	A9719	-
A8510	A8786	A9078	A9274	A9720	-
A8511	A8787	A9079	A9291	A9721	-
A8512	A8795	A9080	A9312	A9881	-

**Serial Numbers of Affected NC8834K Blades**  
**Table 1**

**HARTZELL PROPELLER INC.**  
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**Composite Blade - NC8834K Blade Replacement**

<b>Serial Numbers of HC-E5N-3C Propellers with Affected NC8834K Blades (as originally manufactured by Hartzell Propeller Inc.)</b>			
RJ2	RJ38	RJ69	RJ105
RJ3	RJ40	RJ70	RJ106
RJ4	RJ42	RJ72	RJ108
RJ5	RJ44	RJ73	RJ109
RJ6	RJ45	RJ74	RJ110
RJ7	RJ47	RJ75	RJ111
RJ10	RJ48	RJ76	RJ112
RJ14	RJ49	RJ78	RJ113
RJ15	RJ51	RJ80	RJ115
RJ16	RJ52	RJ81	RJ117
RJ21	RJ53	RJ83	RJ118
RJ23	RJ54	RJ84	RJ125
RJ26	RJ57	RJ86	RJ126
RJ27	RJ59	RJ89	RJ127
RJ29	RJ60	RJ91	RJ130
RJ30	RJ62	RJ94	RJ131
RJ31	RJ63	RJ95	RJ136
RJ32	RJ64	RJ97	RJ138
RJ34	RJ65	RJ98	RJ146
RJ35	RJ67	RJ103	RJ182
RJ36	RJ68	RJ104	-

**Serial Numbers of HC-E5N-3C Propellers with Affected NC8834K Blades  
Table 2**

HARTZELL PROPELLER INC.

# SERVICE BULLETIN

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### Composite Blade - NC8834K Blade Replacement

#### D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin requires replacement of all five blades on propellers that have one or more affected blade(s) installed.
  - (a) To prevent balance issues, Hartzell Propeller Inc. will provide five replacement blades that have been matched and balanced as a set.
- (3) This Service Bulletin introduces a blade set replacement program for propellers that have one or more affected blade(s) installed.
  - (a) All five blades from the propeller must be returned to Hartzell Propeller Inc. in accordance with the Accomplishment Instructions in this Service Bulletin.
    - 1 All blades that are returned become the property of Hartzell Propeller Inc.
  - (b) Hartzell Propeller Inc. will provide a matched/balanced set of five, zero TSO, replacement blades in exchange for the five blades that are returned.

#### E. Compliance

- (1) At next propeller overhaul, replace all five blades on a propeller that has one or more affected blade(s) installed with a complete set of replacement blades supplied by Hartzell Propeller Inc. in accordance with the Accomplishment Instructions in this Service Bulletin.

NOTE: Overhaul intervals are specified in Hartzell Propeller Inc. Service Letter HC-SL-61-61Y.

- (2) Installation of the replacement blades in accordance with the Accomplishment Instructions is terminating action for this Service Bulletin.

#### F. Approval

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

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G. Manpower

- (1) When blade replacement is performed at propeller overhaul:

Warranted Procedure	Allowable Man-hours
Blade Replacement and Propeller Overhaul	30

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. Owner's Manual 147 (61-00-47)  
(2) Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 158A (61-10-58)

K. Other Publications Affected

- (1) None

2. Material Information

A. Materials Supplied by Hartzell Propeller Inc.

- (1) When blade replacement is performed at propeller overhaul:

Part Number	Description	Qty.
NC8834K	PCP: Blade Assy, Comp. [3,1,15]	5
HC-E5N-3C-OH	O/H Kit	1

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3. Accomplishment Instructions

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

A. When Preparing to Overhaul a Propeller with Affected Blade(s):

- (1) Contact the Hartzell Propeller Inc. Product Support Department to coordinate the blade replacement/exchange process.

NOTE: The Hartzell Propeller Inc. Product Support Department will work closely with the owner/repair facility throughout the blade replacement/exchange process to minimize customer inconvenience and downtime.

- (a) Complete the Warranty/Compliance Form in the Appendix section of this Service Bulletin.
- (b) Hartzell Propeller Inc. will process the order and ship the zero TSO replacement blade set to a certified propeller repair station with the appropriate rating.
  - 1 Allow for shipping lead time when placing the order for the replacement blade set.
- (c) Hartzell Propeller Inc. will provide a return material authorization (RMA) number and instructions for returning the five blades removed from the affected propeller.



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B. Replacing the Blades at Propeller Overhaul

- (1) Disassemble the affected propeller in accordance with Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 158A (61-10-58).
- (2) Examine all blade serial numbers and verify that one or more of the blade serial numbers is listed in Table 1.
  - (a) If one or more of the blade serial numbers is listed in Table 1, contact the Hartzell Propeller Inc. Product Support Department to order the replacement blade set and coordinate the blade replacement/exchange process.
    - 1 Refer to section 3.A. in this Service Bulletin for details about the blade replacement/exchange process.
  - (b) If none of the blade serial numbers are listed in Table 1, the blades/propeller are not affected by this Service Bulletin.
- (3) When the replacement blades are received, install the replacement blades and complete the propeller overhaul in accordance with Hartzell Propeller Inc. Five Blade Lightweight Turbine Propeller Overhaul Manual 158A (61-10-58).
- (4) Return all five blades removed from the propeller in accordance with section 3.A. in this Service Bulletin.

C. Make an entry in the propeller logbook indicating the blade set replacement as terminating action for this Service Bulletin.

- (1) Make a note in the propeller logbook indicating the new blade serial numbers installed in the propeller.
- (2) When the replacement blades are installed at propeller overhaul, the propeller Time Since Overhaul (TSO) is "0" and Time Since New is the highest time on either the blades or the hub.
  - (a) The Time Since New (TSN) of the replacement blades will be provided by Hartzell Propeller Inc. with the replacement blades.

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**D. 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).

**E. 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)

**HARTZELL PROPELLER INC.**  
**SERVICE BULLETIN APPENDIX**  
**HC-SBA-61-367**  
**Composite Blade - NC8834K Blade Replacement**

1. Eligibility

- A. Hartzell Propeller Inc. HC-E5N-3C lightweight turbine propellers with one or more NC8834K composite propeller blades with serial number(s) listed in Table 1 are eligible for this warranty program.

2. Warranty Expiration

- A. This warranty program expires on April 1, 2021.

3. Recommended Service Facilities

- A. Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.
- B. 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.
- C. Hartzell Propeller Inc. recommends that you use one of these service facilities when having your propeller overhauled or repaired.
- D. For a current list of Recommended Service Facilities, refer to the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com), or contact the Hartzell Propeller Inc. Product Support Department.

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4. Warranty Program

A. Parts

- (1) Hartzell Propeller Inc. will provide five NC8834K replacement blades and one HC-E5N-3C-OH propeller overhaul kit (if blade replacement is performed at propeller overhaul) including the shipping costs for those parts, free of charge when blade replacement is performed in accordance with the Accomplishment Instructions in this Service Bulletin.
  - (a) All five blades removed from the affected propeller must be returned to Hartzell Propeller Inc. in accordance with the Accomplishment Instructions in this Service Bulletin.
    - 1 All blades that are returned become the property of Hartzell Propeller Inc.

B. Labor

- (1) When blade replacement is performed at propeller overhaul:
  - (a) Hartzell Propeller Inc. will warrant the allowable labor charges associated with propeller overhaul when blade replacement is performed in accordance with the Accomplishment Instructions in this Service Bulletin.
  - (b) Send the invoice for labor charges associated with propeller overhaul to Hartzell Propeller Inc. for processing.
    - 1 Reference the same warranty claim number issued by Hartzell Propeller Inc. for the replacement blade set when submitting the associated labor invoice for payment.
    - 2 Refer to the Manpower section of this Service Bulletin for allowable man-hours when blade replacement is performed at propeller overhaul.
      - a Labor charges will be reimbursed at the service facility's CURRENT POSTED SHOP LABOR RATE, pending Hartzell Propeller Inc. approval.

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C. Extended Warranty Coverage

- (1) Hartzell Propeller Inc. will warrant the materials and workmanship of the replacement blade sets for 10 years when blades are installed in accordance with the Accomplishment Instructions in this Service Bulletin.
  - (a) The extended warranty will start from the date on the labor invoice for the replacement blade installation.

D. Contact Information

- (1) Fax, E-mail, or mail the Warranty/Compliance Form to:  
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

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**Warranty/Compliance Form**

<b>Warranty Claim Number:</b>		
<b>Propeller Information:</b>		
Propeller Model: HC-E5N-3C		Propeller S/N:
Aircraft Model: TBM/700 (TBM900, TBM850)		Aircraft Reg. #:
<b>Blades being returned to Hartzell Propeller Inc.:</b>		
Blade #1	Serial Number:	TSN:
Blade #2	Serial Number:	TSN:
Blade #3	Serial Number:	TSN:
Blade #4	Serial Number:	TSN:
Blade #5	Serial Number:	TSN:
<b>Owner Information:</b>		
Name:		
City:		State:
Zip/Postal Code:		Country:
E-mail:		Phone:
<b>Repair Facility:</b>		
Company:		Contact Name:
Address:		
City:		State:
Zip/Postal Code:		Country:
E-mail:		Phone:      Fax:
<b>Signature:</b>		
Technician's Signature:		Date:
Send this completed <b>and signed</b> form to Hartzell Propeller Inc. Product Support Department: Fax - (001) 937.778.4215 or E-mail - techsupport@hartzellprop.com		

**DO NOT WRITE BELOW THIS LINE - FOR HARTZELL PROPELLER INC. USE ONLY**

Authorized By:	
Date Replacement Blades Shipped From Hartzell Propeller Inc.:	

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