HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

TRANSMITTAL SHEET

HC-ASB-61-306

Propeller - Blade Inspection

October 27, 2014

This page transmits a revision to Alert Service Bulletin HC-ASB-61-306.

- Original Issue, dated Jul 14/08
- Revision 1, dated Sep 10/08
- Revision 2, dated Jun 26/09
- Revision 3, dated Jun 17/13
- Revision 4, dated Oct 27/14

Propeller assemblies that have previously complied with the inspections required in a previous revision of this Alert Service Bulletin may be affected.

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

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

Revision 4 is issued to change the following in the Alert Service Bulletin:

- Clarify the location of the label with propeller and blade serial numbers
- Extend the warranty period from September 2013 to September 2016
- Removed the serial numbers of the propellers that have complied with Revision 3 of this Alert Service Bulletin as terminating action
- Changed the revision level of the Appendix to match the revision level of the Alert Service Bulletin

HARTZELL PROPELLER INC.

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Propeller - Blade Inspection

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Propeller - Blade Inspection

1. Planning Information

   A. Effectivity

      (1) Hartzell Propeller Inc. N7605(B) composite blades used in PHC-J3YF-1N propellers and installed on, but not limited to, Cirrus SR 22 aircraft are affected by this Alert Service Bulletin. Refer to Table 1 for specific propeller and blade serial numbers.

         (a) Hartzell Propeller Inc. N7605C( ) composite blades are not affected by this Alert Service Bulletin.

      (2) Propellers/blades that have not previously complied with the Terminating Action section of this Alert Service Bulletin are affected by this Alert Service Bulletin.

      (3) Propellers/blades that have previously complied with the Terminating Action section of a previous revision to this Alert Service Bulletin may be affected by this Alert Service Bulletin.

         (a) Any propellers/blades that previously complied with the Terminating Action section in revision 2 of this Alert Service Bulletin, but were inspected by a facility other than the Hartzell Propeller Inc. Service Center, are affected by this Alert Service Bulletin and must complete the Terminating Action section of this revision.

            1 Hartzell Propeller Inc. cannot verify that a previous ultrasonic inspection performed at any shop other than the Hartzell Propeller Inc. Service Center in accordance with the instructions in revision 2 to this Alert Service Bulletin completely included Zone 1.

         (b) Any propellers/blades that previously complied with the Terminating Action in revision 2, and were inspected by the Hartzell Propeller Inc. Service Center, are not affected by this Alert Service Bulletin.

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

C. Reason

WARNING: UNUSUAL OR ABNORMAL VIBRATION, WHERE THE CONDITION INITIATED SUDDENLY, CAN BE AN INDICATION OF A FAILING PROPELLER BLADE. AN INFLIGHT BLADE SEPARATION MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. UNUSUAL OR ABNORMAL VIBRATION DEMANDS IMMEDIATE INSPECTION FOR POSSIBLE CRACKED BLADE.

(1) Hartzell Propeller Inc. has received reports of N7605(B) blades with crack indications in the blade shank area. Refer to Figure 1 and Figure 2.

(2) Propeller vibration may also be a symptom of this condition.

(3) The visual inspection specified in this Alert Service Bulletin will provide early detection of a crack indication.

(4) Completion of the ultrasonic inspection specified in this Alert Service Bulletin is terminating action for this Alert Service Bulletin.

(5) Regulatory action is not expected.

D. Description

(1) This document provides Instructions for Continued Airworthiness (ICA).

(2) This Alert Service Bulletin provides instructions for initial and recurring visual inspection of the blade shank area.

(3) This Alert Service Bulletin provides instructions for an ultrasonic inspection of the blade as terminating action for this Alert Service Bulletin.

(4) Revision 3 clarifies the location and marking of Zone 1 and the inspection procedure.

(5) Revision 4 removes the serial numbers of the propellers that have complied with Revision 3 of this Service Bulletin as terminating action for this Service Bulletin, clarifies the location of the label with the propeller and blade serial numbers, and extends the warranty coverage until September 30, 2016.

E. Compliance

(1) Initial Visual Inspection

NOTE: If previously inspected in accordance with the visual inspection procedure from a previous revision of this Alert Service Bulletin, proceed to item 1.E.(2) for Recurring Visual Inspection.

(a) Within 10 flight hours from July 14, 2008, the original issue date of this Alert Service Bulletin, perform the visual inspection specified in the Accomplishment Instructions section of this Alert Service Bulletin.

(b) If excessive or continuous vibration is felt through a variety of RPM ranges, perform the visual inspection as soon as possible and before further flight.

(2) Recurring Visual Inspection

(a) At every 100 flight hours, or at each annual inspection, whichever occurs first, perform the visual inspection specified in the Accomplishment Instructions section of this Alert Service Bulletin.

(3) Ultrasonic Inspection - Terminating Action

(a) Within 2400 flight hours or 72 calendar months, time since new (TSN), whichever occurs first, complete the ultrasonic inspection specified in the Accomplishment Instructions section of this Alert Service Bulletin.

(b) Completion of the ultrasonic inspection in accordance with the Accomplishment Instructions of this Alert Service Bulletin is terminating action for this Alert Service Bulletin.

F. Approval

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

G. Manpower

(1) Approximately 1.0 man hour is required for spinner dome removal/installation and visual inspection of the blades.

(2) Where applicable, approximately 2.0 man hours are required for removal and installation of each anti-icing boot, as required for ultrasonic inspection.

(3) Approximately 2.5 man hours are required for ultrasonic inspection of three blades.

(4) Where applicable, approximately 1.0 man hour per blade is required for removal and installation of erosion tape, as required for ultrasonic inspection.

(5) Where applicable, approximately 2.0 man hours are required for propeller removal and installation.

(6) Where applicable, approximately 5.0 man hours are required for propeller disassembly and re-assembly.

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 ALL DOCUMENTS.

J. References

(1) Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13)

(2) Hartzell Propeller Inc. Owner's Manual 145 (61-00-45) - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com

(3) Hartzell Propeller Inc. Composite Propeller Blade Field Maintenance and Minor Repair Manual 170 (61-13-70) - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com

(4) Hartzell Propeller Inc. Propeller Anti-icing Boot Removal and Installation Manual 183 (61-12-83) - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com

(5) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02) - Volume 7 Consumable Materials is available on the Hartzell Propeller Inc. website at www.hartzellprop.com.

K. Other Publications Affected

(1) None

2. Material Information

A. No special materials are required for the Visual Inspection(s).

B. Materials Necessary for Ultrasonic Inspection:

(1) Tooling

(a) Ultrasonic Flaw Detector (may be procured locally)

1 Panametrics Epoch III, or similar instrument compatible with the Panametrics M207 transducer

(b) Transducer (may be procured locally)

1 Panametrics M207, 2.25 MHz, 0.500 inch (12.7 mm) diameter

2 Includes Panametrics DLH-2 delay tip, 0.500 inch (12.7 mm) length

(c) Calibration Standard Options

1 Hartzell Propeller Inc. P/N 103360

2 Hartzell Propeller Inc. P/N CST-3012

3 Hartzell Propeller Inc. P/N BST-10009

(d) Blade Inspection Template

1 Hartzell Propeller Inc. P/N 102937

NOTE: The transducer, calibration standard, and blade inspection template are available for loan from Hartzell Propeller Inc. .

(e) Roller, such as TE330 (MR0500) or TE331 (MR05020)

(2) Materials

(a) Anti-icing boot P/N C-2131-9 (required for N7605B blades only)

(b) When performed at other than propeller overhaul, refer to Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13) for additional materials required for propeller re-assembly.

(3) Consumables

(a) Solvent Options:

1 CM106, Methyl Ethyl Ketone (MEK)

2 CM219, Methyl Propyl Ketone (MPK)

3 CM41, Toluene; Hartzell P/N A-6741-41(-1)

(b) CM54, Gel, Ultrasonic Inspection, Ultra II Gel or E-Z Gel

(c) CM158, Erosion Tape, Hartzell Propeller Inc. P/N A-6741-158(-1) (not required for N7605B blades)

(d) CM124, Adhesive Promoter, 3M P/N 86A, optional for use with CM158 erosion tape (not used with N7605B blades)

(e) CM162, Non-graphite pencil (or equivalent)

(f) Cloth, clean, lint-free or CM159, Cheesecloth, Grade 90

(g) Masking Tape

(h) When performed at other than propeller overhaul, refer to Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13) for additional consumables required for propeller reseal.

(4) Additional Consumables - required for N7605B blades only

(a) Sandpaper, 120 grit or finer

(b) Adhesive Options:

1 Option A

a CM10, Rubber Adhesive; Hartzell P/N A-6741-10

2 Option B

a CM79, Adhesive; Hartzell P/N A-6741-79

b CM114, Accelerator; Hartzell P/N A-6741-114-1

c CM57, Primer; Hartzell P/N A-6741-57

3 Option C

a CM217, Adhesive; Bostik 2402 Adhesive

b CM218, Accelerator; Bostik D Curing Agent

c CM216, Primer; Bostik 9252 Primer

(c) Sealer, Mix #5

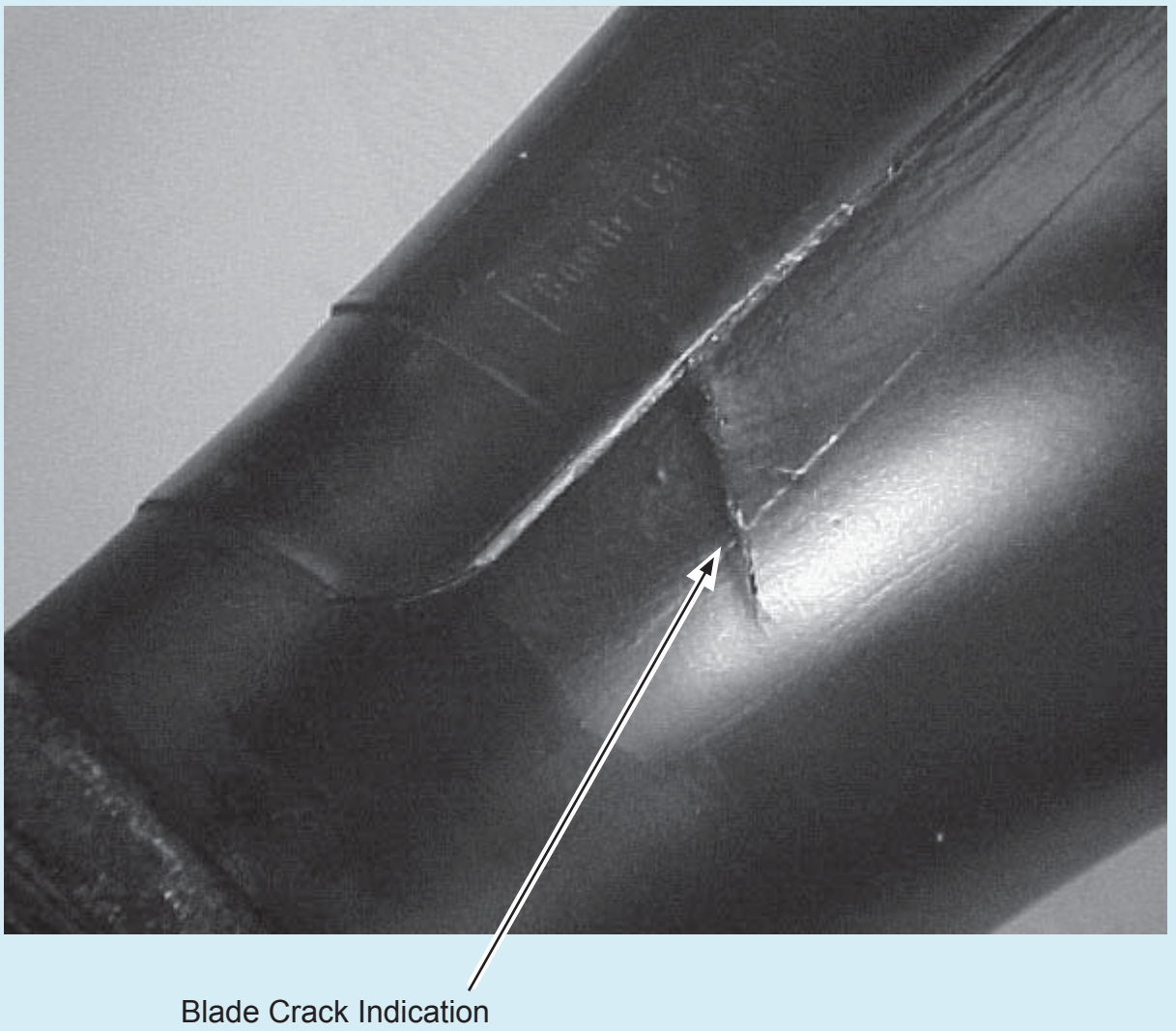
1 CM33, Polane Paint, Black; Hartzell Propeller Inc. P/N A-6741-33(-1)

2 CM30, Catalyst; Hartzell Propeller Inc. P/N A-6741-30(-1)

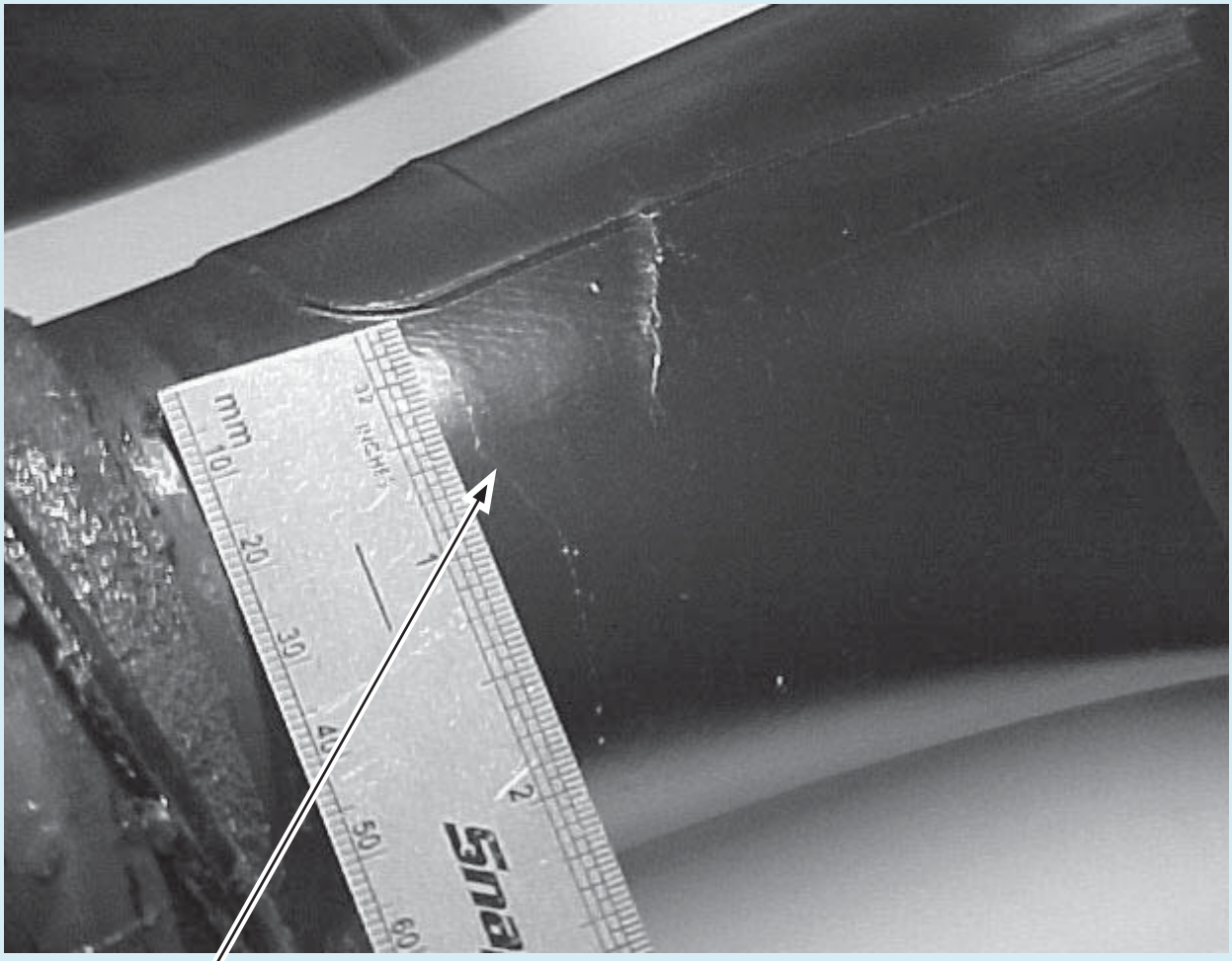
3 CM32, Reducer; Hartzell Propeller Inc. P/N A-6741-32(-1)

4 CM31, Accelerator; Hartzell Propeller Inc. P/N A-6741-31(-1)

NOTE: All CM numbers listed in this Alert Service Bulletin refer to the Consumable Materials chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02).

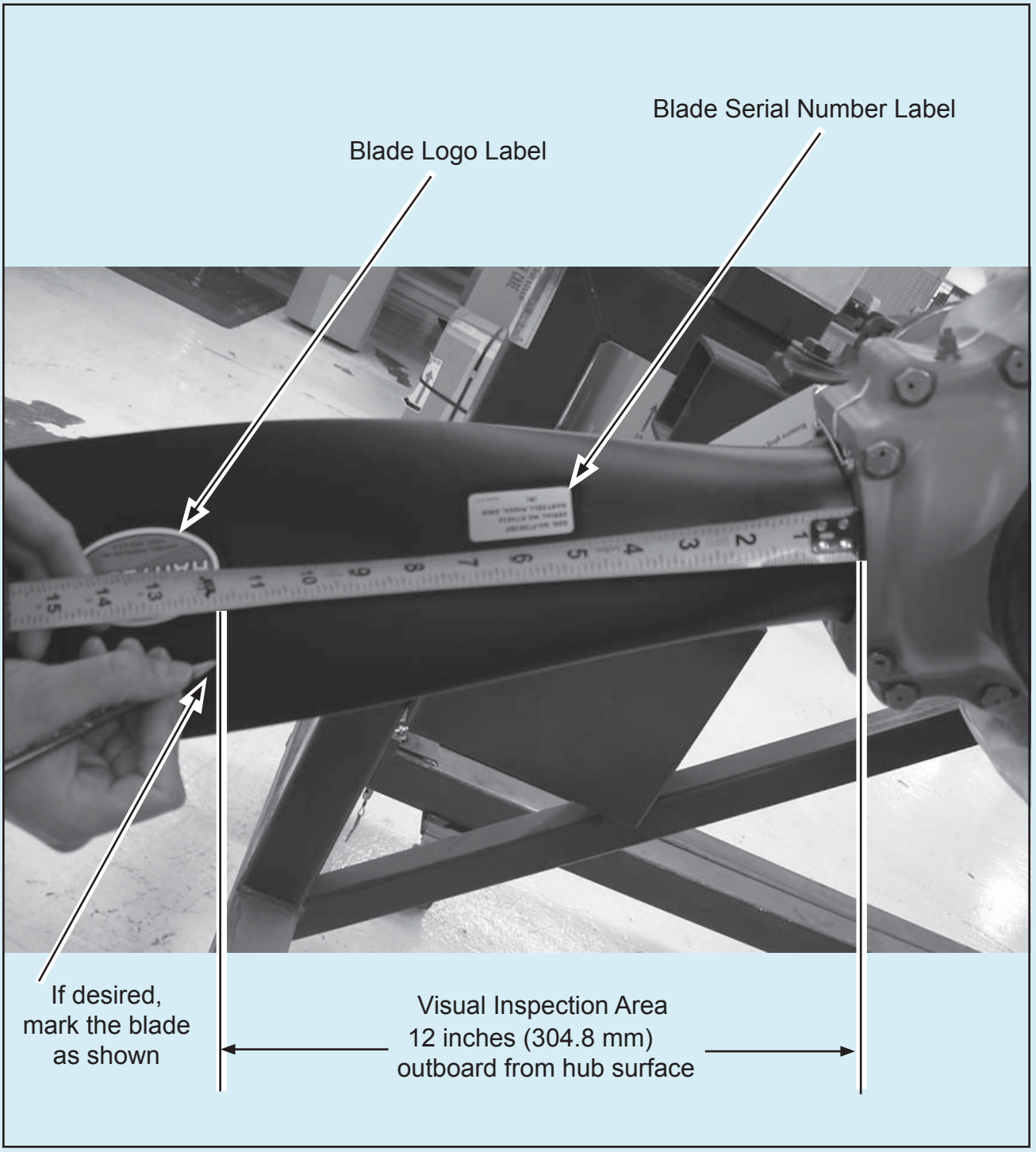


Blade Crack Indication
Figure 1



Blade Crack Indication

Blade Crack Indication
Figure 2



Identifying the Visual Inspection Area
Figure 3

3. Accomplishment Instructions

WARNING: UNUSUAL OR ABNORMAL VIBRATION, WHERE THE CONDITION INITIATED SUDDENLY, CAN BE AN INDICATION OF A FAILING PROPELLER BLADE. AN INFLIGHT BLADE SEPARATION MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. UNUSUAL OR ABNORMAL VIBRATION DEMANDS IMMEDIATE INSPECTION FOR POSSIBLE CRACKED BLADE.

A. Remove the spinner dome in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 145 (61-00-45).

B. Visual Inspection:

(1) This inspection may be performed on-wing.

(a) Propeller removal is not required to perform this inspection.

(b) Where installed, anti-icing boot removal is not required to perform this inspection.

(c) Where installed, erosion tape CM158 removal is not required to perform this inspection.

(2) This inspection must be performed by an Airframe & Powerplant mechanic, certified propeller repair station with the appropriate rating, or foreign equivalent.

(3) If desired to identify the inspection area, use a non-graphite pencil CM162 or equivalent, to make a mark on the blade surface approximately 12 inches (304.8 mm) from the hub surface outboard on the blade. This will be approximately at the inboard edge of the blade logo label. See Figure 3.

(4) Using an appropriate light source, visually inspect for a crack indication on the blade. Refer to Figure 1 and Figure 2.

(a) If an anti-icing boot is installed in the inspection area, visually inspect the areas of the blade around the anti-icing boot.

(b) If a visual indication is found, contact Hartzell Propeller Inc. Product Support before further flight.

(5) Make a record of the blade serial numbers on the Report Form included in the Appendix of this Alert Service Bulletin.

(a) Propeller and blade serial numbers are printed on the label that is located on the propeller cylinder.

(b) If the blade serial number label is missing or illegible, refer to the propeller logbook where the blade serial numbers should be recorded.

1 Find the serial numbers of the blades installed at the time of manufacture. Make a record of these blade serial numbers on the Report Form included in this Alert Service Bulletin.

(6) After each visual inspection, return the completed Report Form in this Alert Service Bulletin to Hartzell Propeller Inc. Product Support, even if no crack indications are found.

(7) Install the spinner dome in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 145 (61-00-45).

(8) After each inspection, make an entry in the propeller logbook indicating compliance with the visual inspection requirement of this Alert Service Bulletin for each affected blade serial number.

C. Ultrasonic Inspection - Terminating Action:

(1) This inspection may not be performed on-wing. Propeller removal and disassembly are required to perform this inspection.

(2) Remove the propeller in accordance with Hartzell Propeller Inc. Propeller Owner's Manual 145 (61-00-45).

(3) Disassembly, inspection, and assembly of the propeller and propeller hub must be performed by a certified propeller repair station with the appropriate rating.

(4) Disassemble the propeller in accordance with Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13).

(5) Personnel performing ultrasonic inspection on the N7605(B) blade must be qualified and certified to Level II or III based on the requirements of the American Society for Nondestructive Testing, Inc. Recommended Practice No. SNT-TC-1A, National Aerospace Standard NAS 410 (replaces MIL-STD-410E), ATA Specification 105, or equivalent international standard such as ISO 9712.

(6) Blade Surface Preparation

NOTE: Refer to Figure 11 for a flowchart of the Ultrasonic Inspection process. The flowchart is for quick reference only. The flowchart does not include all of the details of this inspection procedure.

(a) If an anti-icing boot is installed in the inspection area, remove the anti-icing boot in accordance with Hartzell Propeller Inc. Propeller Anti-icing Boot Removal and Installation Manual 183 (61-12-83) to perform this inspection.

NOTE: The coin-tap procedure required in accordance with Hartzell Propeller Inc. Propeller Anti-icing Boot Removal and Installation Manual 183 (61-12-83) can be found in Hartzell Propeller Inc. Composite Propeller Blade Field Maintenance and Minor Repair Manual 170 (61-13-70).

(b) If Erosion Tape CM158 is installed in the inspection area, remove as follows:

CAUTION: USE EXTREME CARE NOT TO DAMAGE THE BLADE WHILE REMOVING THE EROSION TAPE.

1 Carefully lift one edge of the erosion tape CM158.

2 Work around the perimeter of the erosion tape CM158, lifting the edge of the tape from the blade.

3 After the edge of the erosion tape CM158 is pulled up from the blade, pull the erosion tape off one side of the blade towards the leading edge.

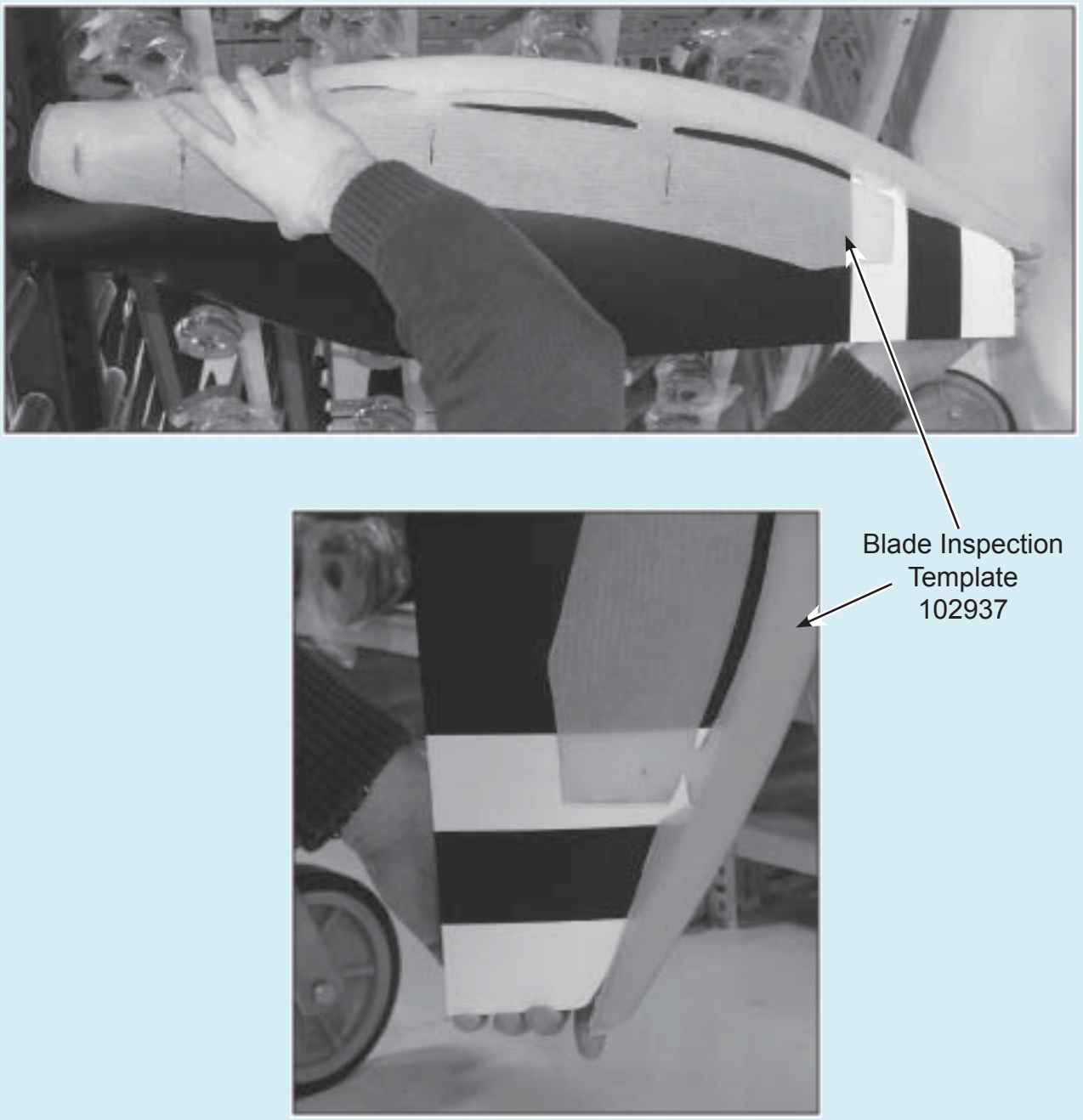
4 With the erosion tape CM158 stuck to only one side of the blade, grasp one end of the erosion tape and pull towards the other end.

5 Discard the removed erosion tape CM158.

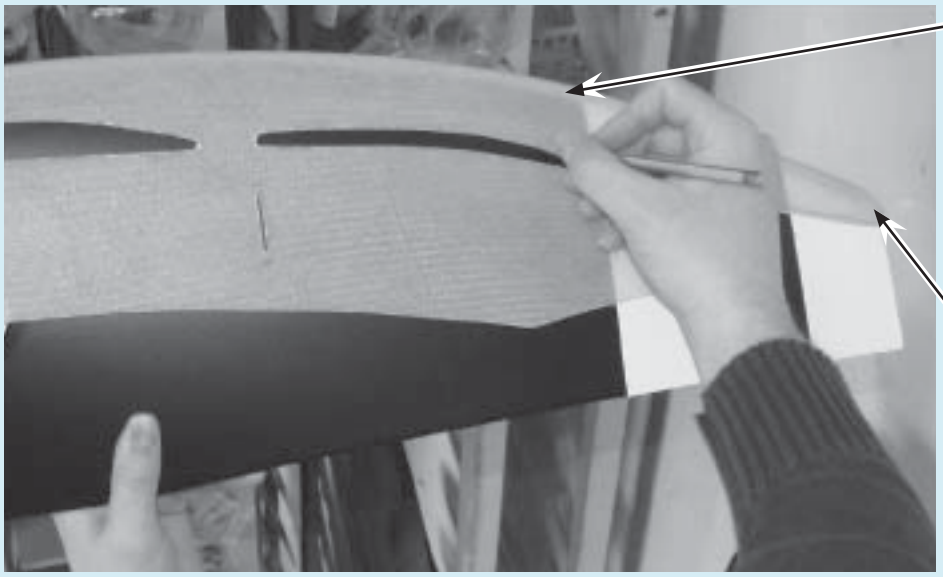
6 Using a clean cloth dampened with solvent CM106 (MEK), CM219 (MPK), or CM41 (Toluene) remove all visible adhesive from the blade.

(c) Using a clean, lint-free cloth or cheesecloth CM159 and solvent CM106 (MEK), CM219 (MPK), or CM41 (Toluene), wipe the blade being inspected to make sure that the test surface of the blade is clean and smooth. This will minimize false indications and prevent interference with the movement of the transducer.

(d) Put the blade inspection template 102937 over the blade from the tip and leading edge of the blade to be inspected. Refer to Figure 4.



Placement of the Blade Inspection Template
Figure 4

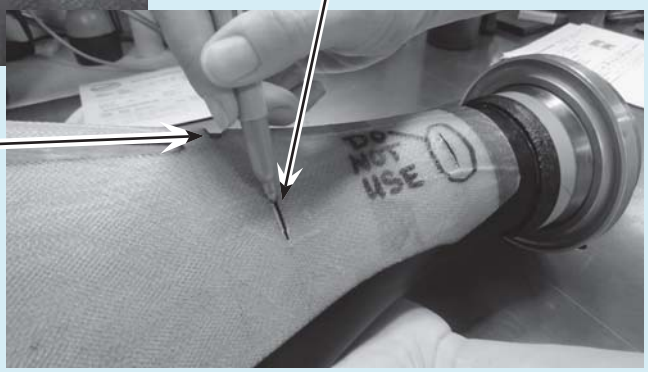


Inside edge of the template is firmly against the leading edge of the blade.

Inside edge of the template is firmly against the tip of the blade.

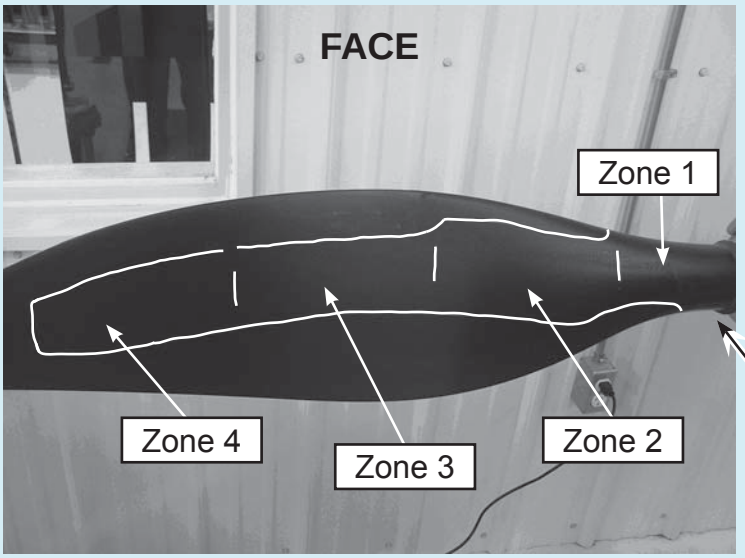
Outboard edge of Zone 1. Zone 1 extends from this point inboard to the shank.

Mark the cut-out across the leading edge to identify the outboard edge of Zone 1 from the face to the camber of the blade.

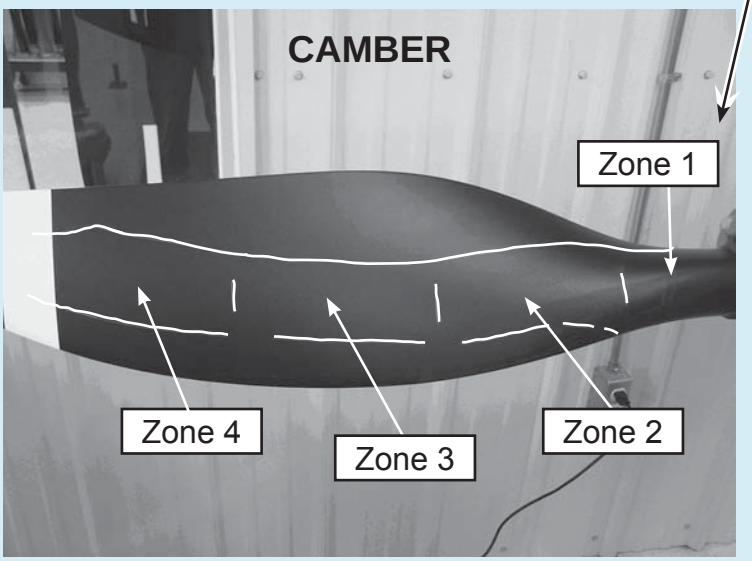


Marking the Ultrasonic Inspection Zones
Figure 5

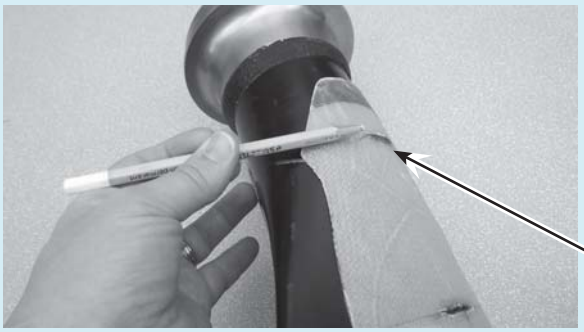
HS52 - PHOTO 2
HS52 - PHOTO 1

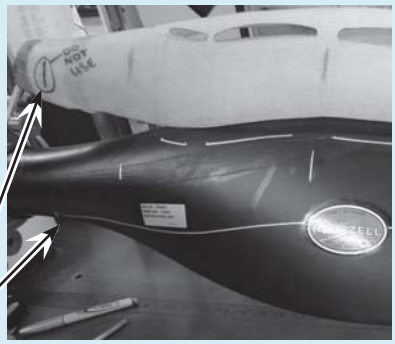


Zone 1 circles the blade at the shank. Zone 1 extends to different points for the trailing edge and for the leading edge. Refer to Figure 7.

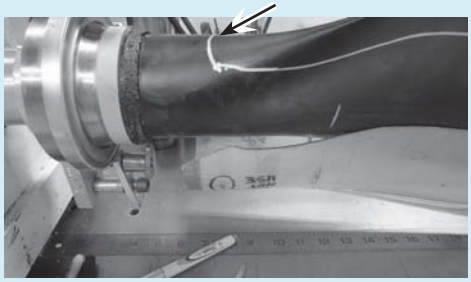


Marking and Identifying the Ultrasonic Inspection Zones
Figure 6

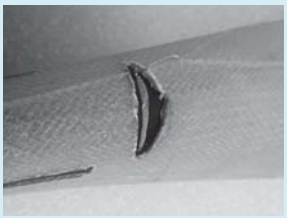


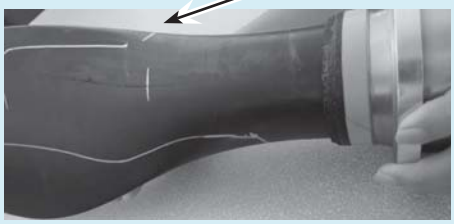


The farthest inboard cut-out is not used where positioned. It is used as a guide to make a line from the edge of the template, across the trailing edge, to connect to the other edge of the template. This is to identify Zone 1 completely around the shank.



The cut-out located inboard and across the leading edge is used where positioned. Use this mark to identify the outboard edge of Zone 1 across the leading edge and connecting the face to the camber around the shank.





Zone 1 Detail
Figure 7

(e) Using a non-graphite pencil CM162 or equivalent, mark the blade through the cut-outs of the blade inspection template 102937 on the face and camber sides of the blade as well as at the cut-out across the leading edge near the shank, to identify the inspection zones. Refer to Figure 5 through Figure 7. Indicate the inspection zones defined as follows:

Zone 1 – end of shank to 9” station
A portion of Zone 1 wraps completely around the blade shank inboard of the "Do Not Use" cut-out, not only on face and camber. Refer to Figure 5 through Figure 7.

Zone 2 – 17” to 9” station

Zone 3 – 25” to 17” station

Zone 4 – 33” to 25” station

(f) Remove the blade inspection template 102937 from the blade and verify that all inspection zones are clearly marked. Refer to Figure 6.

(7) Equipment Setup

(a) If the ultrasonic flaw detection equipment has not been turned off/on, has not been disassembled, and has not been used for other inspections since last used for the inspection procedure in this Alert Service Bulletin, proceed to paragraph 3.C.(8).

(b) Instrument preparation must be accomplished every time the instrument is turned on.

1 If the instrument was last used for inspections other than this Alert Service Bulletin, re-accomplish instrument preparation before proceeding with these instructions.

2 Turn the instrument on and if applicable, allow it to go through its self test mode.

3 Adjust the material velocity to 0.1269 inches (3.22 mm) per microsecond (µs).

(c) Transducer Preparation

1 Check the delay tip for obvious damage and wear before use.

a Replace the tip if necessary.

b If the delay tip is damaged and is Hartzell Propeller Inc. Propeller property, contact Hartzell Propeller Inc. Product Support immediately.

2 Remove the delay tip from the transducer.

3 Wet the contacting surfaces of the two parts with gel CM54.

4 Reassemble the delay tip and transducer.

(8) Scanning - Calibration of Equipment

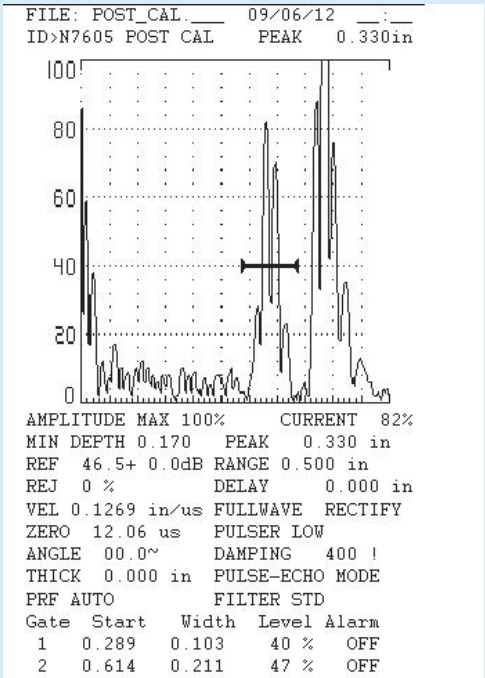
NOTE: Calibration must be performed before inspection of each blade.

(a) Calibration of the equipment establishes the reference gain. Refer to Figure 8. Calibration must be performed before inspection of each blade as follows:

1 Put the calibration standard on a flat surface with the opening of the 0.156 inch (3.96 mm) flat bottom hole facing down.

2 Apply gel CM54 to the calibration standard.

3 Position the transducer on the surface of the calibration standard in an area so that the 0.156 inch (3.96 mm) flat bottom hole does not interfere.



Calibration Establishes Reference Gain Only
Figure 8

4 Adjust the zero offset so that the interface signal from the delay tip and the calibration standard is at the left most position on the instrument screen.

5 Adjust the range so that the leading edge of the signal from the back of the calibration standard measures a depth of approximately 0.430 inches (10.9 mm).

6 Re-position the transducer on the surface of the calibration standard over the 0.156 inch (3.96 mm) diameter flat bottom hole.

7 Adjust the dB setting to achieve a signal amplitude of 80 percent from the 0.156 inch (3.96 mm) flat bottom hole. This dB setting is referred to as the “dB reference level”, and will be used for verification purposes.

(9) Scanning - Blade Inspection

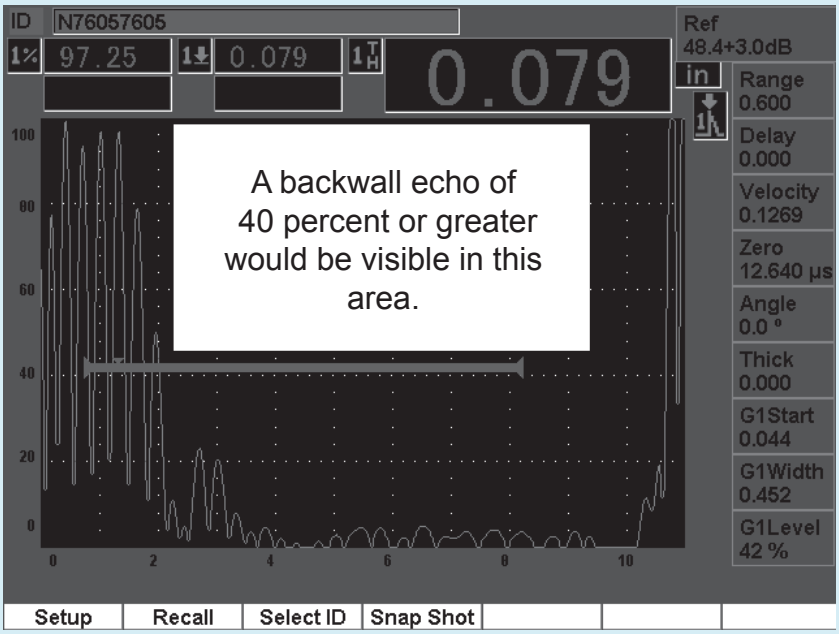
(a) When scanning the blade for inspection with the ultrasonic flaw detector and transducer, the inspector must maintain a scanning speed that permits the detection of a loss of the backwall echo (any echo with signal amplitude less than 40 percent).

1 Repeated and overlapping passes are required for adequate inspection and should be used for signal confirmation.

CAUTION: A GOOD/ACCEPTABLE SIGNAL MAY APPEAR TO BE UNACCEPTABLE IF THE DELAY TIP IS NOT PROPERLY ADJUSTED TO THE CONTOURED BLADE SURFACE OR IF THE EQUIPMENT IS NOT SET PROPERLY FOR THE ZONE. A BAD/UNACCEPTABLE SIGNAL CANNOT BE MADE TO APPEAR ACCEPTABLE, IF THE EQUIPMENT IS SET PROPERLY FOR THE ZONE.

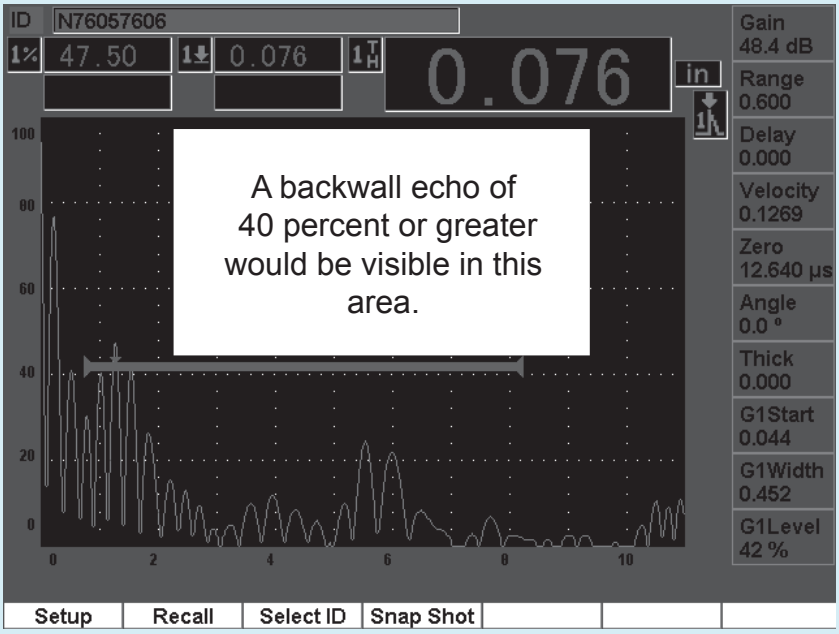
2 While performing the inspection, the transducer must be continually adjusted/manipulated in order to maximize the signal because of using the flat delay tip on the contoured surface of the blade.

a If a backwall echo of less than 40 percent is found, adjust/manipulate the transducer to make sure the signal is maximized.



This example was taken with a reference gain of +3 dB, as used in Zone 1. This example shows no backwall echo. This example would be bad/unacceptable. A good/acceptable signal would reach at or above the 40 percent gate shown here.

Example of Signal
Figure 9



This example was taken with no reference gain, as used in Zone 2. This example shows a backwall echo. The backwall echo shown is less than 40 percent. This example would be bad/unacceptable. A good/acceptable signal would reach at or above the 40 percent gate shown here.

Example of Signal
Figure 10

CAUTION: INSPECTION CRITERIA IS NOT THE SAME AS THE CALIBRATION SIGNAL.

3 This inspection is not looking for a typical flaw. This inspection is looking for a loss of backwall echo (any echo with a signal amplitude less than 40 percent).

(b) Apply gel CM54 to the blade surface for inspection.

(c) Scan the complete area of each inspection zone on both sides of the blade at the following dB level:

Zone 1 – reference level +3 dB

Zone 2 – reference level

Zone 3 – reference level -4 dB

Zone 4 – reference level -6 dB

1 Using a non-graphite pencil CM162 or equivalent, make a mark to identify any zone that produces no backwall echo or a backwall echo with a signal amplitude of less than 40 percent. Refer to Figure 9 and Figure 10.

(d) Verification of Calibration

NOTE: Verification must be performed immediately after inspection of each blade.

1 Verification must be performed immediately after inspection of each blade as follows:

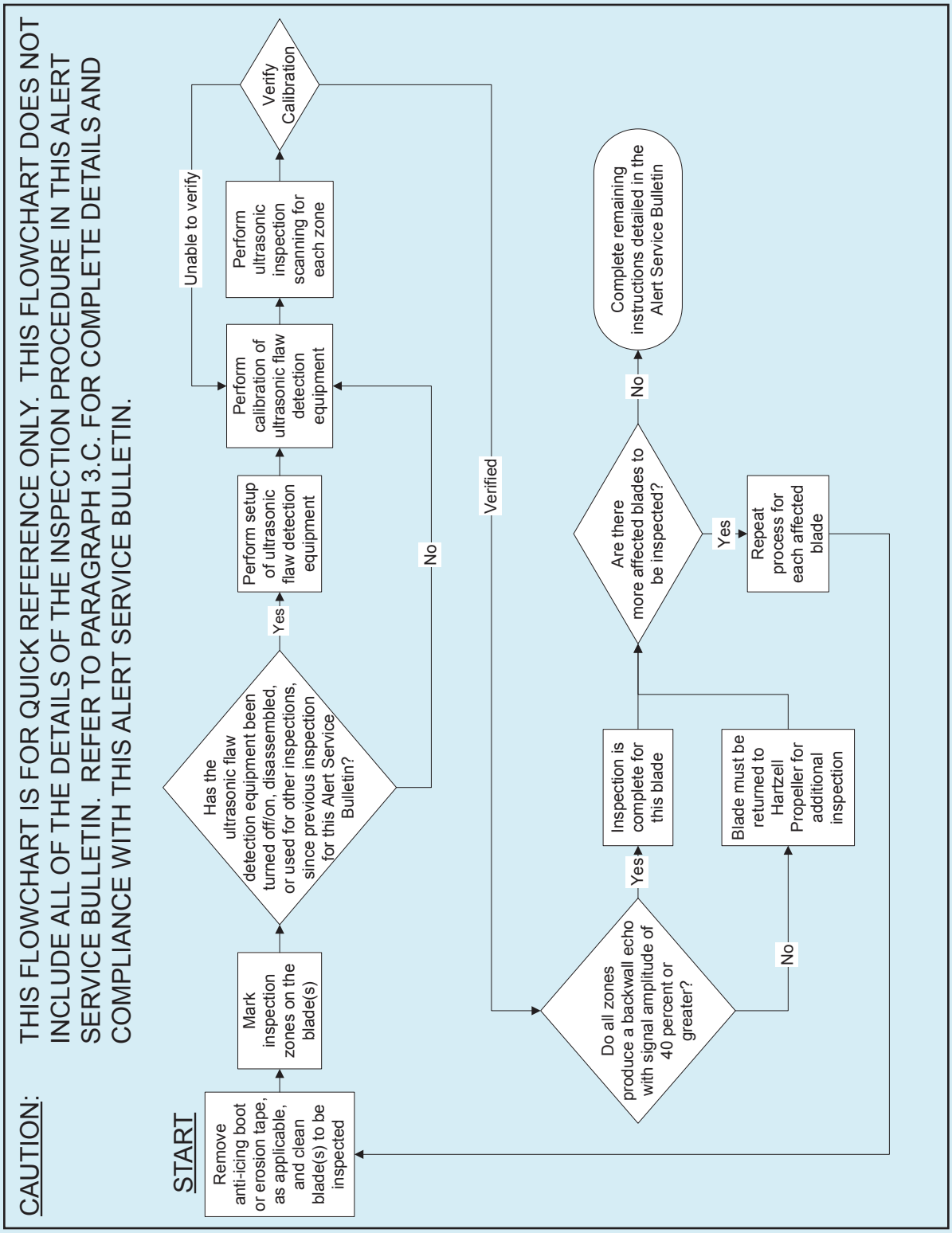
a After inspecting each blade, calibration must be verified by achieving signal amplitude of 80 percent or greater from the 0.156 inch (3.96 mm) flat bottom hole of the calibration standard using the dB reference level established at calibration.

b If the signal amplitude is verified, proceed to paragraph 3.C.(9)(f).

c If the signal amplitude can not be verified:

1) If any marks were made in accordance with paragraph 3.C.(9)(d)1, use a clean, lint-free cloth or cheesecloth CM159 to wipe away only these marks. Do not wipe away any marks made to identify the inspection zones.

2) Return to paragraph 3.C.(9)(a) to recalibrate and reinspect the blade.



Quick Reference Flowchart of Ultrasonic Inspection
Figure 11

(e) If all areas of each zone produce a backwall echo with a signal amplitude of 40 percent or greater, the inspection is complete for that blade (Refer to Figure 9 and Figure 10):

1 The blade is considered airworthy in accordance with this Alert Service Bulletin.

a Using a clean, lint-free cloth or cheesecloth CM159 and water, wipe the blade to clean any gel CM54 and markings from the blade.

b Assemble the propeller in accordance with Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13).

c Proceed to paragraph 3.C.(11).

(f) If any area of any inspection zone does not produce a backwall echo with a signal amplitude of 40 percent or greater (no backwall echo or a backwall echo with signal amplitude of less than 40 percent), additional inspection is required. Refer to Figure 9 and Figure 10.

1 The blade must be returned to Hartzell Propeller Inc. for additional inspection and determination of airworthiness in accordance with paragraph 3.C.(14).

a Using a clean, lint-free cloth or cheesecloth CM159 and water, wipe the blade to clean any gel CM54 and markings from the blade.

(10) Return to paragraph 3.C.(7) and repeat the set-up, calibration, and inspection process for each affected blade.

NOTE: Refer to Figure 11 for a flowchart of the Ultrasonic Inspection process. The flowchart is for quick reference only. The flowchart does not include all of the details of this inspection procedure.

(11) Make an entry in the propeller logbook indicating compliance with the Ultrasonic Inspection section of this Alert Service Bulletin for each blade serial number that is considered airworthy in accordance with this Alert Service Bulletin.

(a) Make a notation that the ultrasonic inspection provides terminating action for the inspection requirements of this Alert Service Bulletin.

(12) For all blades produced a backwall echo with signal amplitude of 40 percent or greater in all areas of all inspection zones, proceed to paragraph 3.C.(13).

(13) Complete and return the Report Form in this Alert Service Bulletin to Hartzell Propeller Inc. Product Support.

(14) Any blade that produced no backwall echo or a backwall echo with signal amplitude of less than 40 percent must be returned to Hartzell Propeller Inc.

(a) Contact Hartzell Propeller Inc. Product Support for instructions to schedule inspection of each blade that must be returned.

NOTE: Do not return blades without prior authorization from Hartzell Propeller Inc. Product Support.

CAUTION: INSTALLATION OF EROSION TAPE CM158 OR ANTI-ICING BOOT, AS APPLICABLE, IS REQUIRED BEFORE FURTHER FLIGHT.

(b) The propeller may be flown a maximum of 25.0 additional flight hours from the time of the ultrasonic inspection, not to exceed total time since new (TSN) of 2400 flight hours or 72 calendar months, whichever occurs first, before returning the blades to Hartzell Propeller Inc.

(15) Installation of Erosion Tape CM158 or Anti-icing Boot, as applicable.

CAUTION 1: N7605( ) BLADES THAT WILL NOT HAVE AN ANTI-ICING BOOT INSTALLED MUST HAVE EROSION TAPE CM158 INSTALLED.

CAUTION 2: DO NOT INSTALL EROSION TAPE CM158 ON AN N7605B BLADE. THE N7605B BLADE USES AN ALCOHOL ANTI-ICE BOOT. INSTALLATION OF EROSION TAPE CM158 WILL PREVENT PROPER FUNCTION OF THE ANTI-ICE BOOT.

(a) N7605( ) blades that will not have an anti-icing boot installed, must have erosion tape CM158 installed on the leading edge.

NOTE: The erosion tape CM158 or anti-icing boot, whichever is applicable, may be installed on the blade before propeller assembly, after propeller assembly, or on-wing.

(b) Install erosion tape CM158 in accordance with Hartzell Propeller Inc. Composite Propeller Blade Field Maintenance and Minor Repair Manual 170 (61-13-70). Apply a thin, uniform layer of adhesive promoter CM124 to the area of the blade where the erosion tape CM158 will be installed.

(c) N7605B blades must have an anti-icing boot C-2131-9 installed.

1 Install the anti-icing boot C-2131-9 in accordance with Hartzell Propeller Inc. Propeller Anti-icing Boot Removal and Installation Manual 183 (61-12-83).

NOTE: The erosion tape CM158 or anti-icing boot, whichever is applicable, may be installed on the blade before propeller assembly, after propeller assembly, or on-wing.

a Mix #5, required for installation of the anti-icing boot in accordance with Hartzell Propeller Inc. Propeller Anti-icing Boot Removal and Installation Manual 183 (61-12-83), consists of the following:

1) 6 parts CM33, Polane Paint, Black

2) 1 part CM30, Catalyst

3) 1-3 parts CM32, Polane Reducer, as needed for desired thickness

4) CM31, Accelerator, as needed

(16) Assemble the propeller in accordance with Hartzell Propeller Inc. Compact and Lightweight Compact Non-Feathering (-1) and Aerobatic (-4) Propeller Overhaul and Maintenance Manual 113B (61-10-13).

(17) Install the propeller in accordance with Hartzell Propeller Inc. Owner's Manual 145 (61-00-45).

(18) Install the spinner dome in accordance with Hartzell Propeller Inc. Owner's Manual 145 (61-00-45).

D. Contact Information:

Hartzell Propeller Inc.
Attn: 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

NOTE: The following table of serial numbers are the configuration of the propeller assembly at the time of manufacture. If there has been a blade replacement, the following list of blade serial numbers may not be correct for the propeller/hub assembly listed. Perform the specified inspection if the propeller/hub assembly serial number is listed or if the blade serial number(s) is listed.

PROPELLER MODEL	PROPELLER/ HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
PHC-J3YF-1N/N7605B	FP4944B	A0005	A0002	A0001
PHC-J3YF-1N/N7605B	FP4989B	A0007	A0004	A0008
PHC-J3YF-1N/N7605B	FP4998B	A0014	A0013	A0011
PHC-J3YF-1N/N7605B	FP4999B	A0012	A0010	A0009
PHC-J3YF-1N/N7605B	FP5016B	A0023	A0016	A0020
PHC-J3YF-1N/N7605B	FP5017B	A0017	A0018	A0019
PHC-J3YF-1N/N7605B	FP5050B	A0027	A0029	A0030
PHC-J3YF-1N/N7605B	FP5053B	A0021	A0015	A0024
PHC-J3YF-1N/N7605B	FP5089B	A0031	A0026	A0033
PHC-J3YF-1N/N7605B	FP5101B	A0383	A0382	A0379
PHC-J3YF-1N/N7605B	FP5106B	A0049	A0050	A0051
PHC-J3YF-1N/N7605B	FP5107B	A0043	A0044	A0045
PHC-J3YF-1N/N7605B	FP5114B	A0054	A0052	A0056
PHC-J3YF-1N/N7605B	FP5116B	A0055	A0057	A0061
PHC-J3YF-1N/N7605B	FP5117B	A0060	A0058	A0059
PHC-J3YF-1N/N7605B	FP5121B	A0063	A0053	A0062
PHC-J3YF-1N/N7605B	FP5123B	A0089	A0094	A0093
PHC-J3YF-1N/N7605B	FP5126B	A0091	A0087	A0092
PHC-J3YF-1N/N7605B	FP5128B	A0088	A0095	A0082
PHC-J3YF-1N/N7605B	FP5133B	A0040	A0042	A0041
PHC-J3YF-1N/N7605B	FP5138B	A0036	A0034	A0037
PHC-J3YF-1N/N7605B	FP5140B	A0035	A0039	A0038
PHC-J3YF-1N/N7605B	FP5147B	A0048	A0047	A0046
PHC-J3YF-1N/N7605B	FP5173B	A0079	A0071	A0080

Propeller Assembly Serial Numbers
Table 1

PROPELLER MODEL	PROPELLER/ HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
PHC-J3YF-1N/N7605B	FP5176B	A0069	A0064	A0076
PHC-J3YF-1N/N7605B	FP5181B	A0077	A0067	A0066
PHC-J3YF-1N/N7605B	FP5189B	A0163	A0164	A0160
PHC-J3YF-1N/N7605B	FP5192B	A0162	A0161	A0151
PHC-J3YF-1N/N7605B	FP5194B	A0078	A0074	A0072
PHC-J3YF-1N/N7605B	FP5203B	A0114	A0116	A0104
PHC-J3YF-1N/N7605B	FP5209B	A0111	A0109	A0110
PHC-J3YF-1N/N7605B	FP5211B	A0103	A0107	A0100
PHC-J3YF-1N/N7605B	FP5212B	A0102	A0108	A0101
PHC-J3YF-1N/N7605B	FP5213B	A0099	A0105	A0106
PHC-J3YF-1N/N7605B	FP5220B	A0083	A0084	A0085
PHC-J3YF-1N/N7605B	FP5222B	A0081	A0098	A0097
PHC-J3YF-1N/N7605B	FP5227B	A0122	A0125	A0126
PHC-J3YF-1N/N7605B	FP5237B	A0120	A0121	A0119
PHC-J3YF-1N/N7605B	FP5238B	A0117	A0129	A0123
PHC-J3YF-1N/N7605B	FP5239B	A0118	A0124	A0115
PHC-J3YF-1N/N7605B	FP5241B	A0134	A0142	A0128
PHC-J3YF-1N/N7605B	FP5244B	A0135	A0138	A0130
PHC-J3YF-1N/N7605B	FP5252B	A0141	A0137	A0136
PHC-J3YF-1N/N7605B	FP5262B	A0147	A0140	A0143
PHC-J3YF-1N/N7605B	FP5263B	A0144	A0145	A0149
PHC-J3YF-1N/N7605B	FP5267B	A0158	A0175	A0159
PHC-J3YF-1N/N7605B	FP5275B	A0150	A0157	A0153
PHC-J3YF-1N/N7605B	FP5287B	A0165	A0169	A0156
PHC-J3YF-1N/N7605B	FP5290B	A0171	A0207	A0167
PHC-J3YF-1N/N7605B	FP5294B	A0191	A0189	A0182
PHC-J3YF-1N/N7605B	FP5295B	A0210	A0211	A0190
PHC-J3YF-1N/N7605B	FP5296B	A0343	A0332	A0336

Propeller Assembly Serial Numbers
Table 1 (Continued)

PROPELLER MODEL	PROPELLER/ HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
PHC-J3YF-1N/N7605B	FP5298B	A0187	A0181	A0199
PHC-J3YF-1N/N7605B	FP5315B	A0186	A0202	A0188
PHC-J3YF-1N/N7605B	FP5317B	A0233	A0168	A0195
PHC-J3YF-1N/N7605B	FP5318B	A0174	A0173	A0200
PHC-J3YF-1N/N7605B	FP5319B	A0184	A0177	A0203
PHC-J3YF-1N/N7605B	FP5324B	A0196	A0213	A0205
PHC-J3YF-1N/N7605B	FP5326B	A0197	A0235	A0214
PHC-J3YF-1N/N7605B	FP5332B	A0251	A0268	A0234
PHC-J3YF-1N/N7605B	FP5334B	A0260	A0236	A0261
PHC-J3YF-1N/N7605B	FP5336B	A0241	A0239	A0247
PHC-J3YF-1N/N7605B	FP5340B	A0218	A0217	A0226
PHC-J3YF-1N/N7605B	FP5341B	A0216	A0201	A0176
PHC-J3YF-1N/N7605B	FP5343B	A0220	A0223	A0230
PHC-J3YF-1N/N7605B	FP5350B	A0227	A0231	A0272
PHC-J3YF-1N/N7605B	FP5356B	A0221	A0225	A0193
PHC-J3YF-1N/N7605B	FP5357B	A0269	A0258	A0252
PHC-J3YF-1N/N7605B	FP5358B	A0222	A0215	A0198
PHC-J3YF-1N/N7605B	FP5373B	A0264	A0253	A0244
PHC-J3YF-1N/N7605B	FP5375B	A0238	A0255	A0265
PHC-J3YF-1N/N7605B	FP5376B	A0256	A0263	A0259
PHC-J3YF-1N/N7605B	FP5380B	A0219	A0185	A0254
PHC-J3YF-1N/N7605B	FP5381B	A0266	A0257	A0237
PHC-J3YF-1N/N7605B	FP5382B	A0242	A0243	A0246
PHC-J3YF-1N/N7605B	FP5385B	A0232	A0240	A0245
PHC-J3YF-1N/N7605B	FP5391B	A0248	A0194	A0249
PHC-J3YF-1N/N7605B	FP5415B	A0289	A0282	A0286
PHC-J3YF-1N/N7605B	FP5417B	A0170	A0212	A0179
PHC-J3YF-1N/N7605B	FP5421B	A0283	A0279	A0271

Propeller Assembly Serial Numbers
Table 1 (Continued)

PROPELLER MODEL	PROPELLER/ HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
PHC-J3YF-1N/N7605B	FP5422B	A0277	A0288	A0274
PHC-J3YF-1N/N7605B	FP5423B	A0270	A0275	A0262
PHC-J3YF-1N/N7605B	FP5424B	A0280	A0273	A0267
PHC-J3YF-1N/N7605B	FP5425B	A0229	A0284	A0278
PHC-J3YF-1N/N7605B	FP5431B	A0446	A0445	A0354
PHC-J3YF-1N/N7605B	FP5432B	A0443	A0435	A0438
PHC-J3YF-1N/N7605B	FP5436B	A0423	A0419	A0426
PHC-J3YF-1N/N7605B	FP5439B	A0301	A0291	A0295
PHC-J3YF-1N/N7605B	FP5440B	A0290	A0296	A0300
PHC-J3YF-1N/N7605B	FP5441B	A0302	A0294	A0299
PHC-J3YF-1N/N7605B	FP5443B	A0306	A0305	A0308
PHC-J3YF-1N/N7605B	FP5445B	A0298	A0293	A0292
PHC-J3YF-1N/N7605B	FP5451B	A0315	A0309	A0317
PHC-J3YF-1N/N7605B	FP5454B	A0307	A0319	A0313
PHC-J3YF-1N/N7605B	FP5456B	A0312	A0318	A0316
PHC-J3YF-1N/N7605B	FP5459B	A0314	A0311	A0310
PHC-J3YF-1N/N7605B	FP5476B	A0360	A0404	A0388
PHC-J3YF-1N/N7605B	FP5481B	A0331	A0330	A0324
PHC-J3YF-1N/N7605B	FP5482B	A0325	A0328	A0326
PHC-J3YF-1N/N7605B	FP5483B	A0320	A0321	A0323
PHC-J3YF-1N/N7605B	FP5487B	A0327	A0322	A0329
PHC-J3YF-1N/N7605B	FP5489B	A0342	A0350	A0345
PHC-J3YF-1N/N7605B	FP5491B	A0334	A0347	A0335
PHC-J3YF-1N/N7605B	FP5493B	A0374	A0368	A0366
PHC-J3YF-1N/N7605B	FP5494B	A0381	A0371	A0373
PHC-J3YF-1N/N7605B	FP5495B	A0369	A0377	A0375
PHC-J3YF-1N/N7605B	FP5496B	A0394	A0384	A0392
PHC-J3YF-1N/N7605B	FP5504B	A0415	A0406	A0412

Propeller Assembly Serial Numbers
Table 1 (Continued)

PROPELLER MODEL	PROPELLER/ HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
PHC-J3YF-1N/N7605	FP5507B	A0422	A0427	A0421
PHC-J3YF-1N/N7605B	FP5509B	A0339	A0338	A0340
PHC-J3YF-1N/N7605B	FP5528B	A0402	A0400	A0363
PHC-J3YF-1N/N7605B	FP5534B	A0393	A0378	A0387
PHC-J3YF-1N/N7605B	FP5538B	A0395	A0396	A0333
PHC-J3YF-1N/N7605	FP5546B	A0398	A0397	A0403
PHC-J3YF-1N/N7605B	FP5552B	A0390	A0365	A0386
PHC-J3YF-1N/N7605B	FP5557B	A0429	A0449	A0385
PHC-J3YF-1N/N7605B	FP5569B	A0409	A0410	A0408
PHC-J3YF-1N/N7605B	FP5573B	A0407	A0416	A0417
PHC-J3YF-1N/N7605	FP5576B	A0428	A0430	A0431
PHC-J3YF-1N/N7605B	FP5583B	A0425	A0418	A0420
PHC-J3YF-1N/N7605B	FP5921B	A0361	A0389	A0337

ALERT SERVICE BULLETIN APPENDIX

HC-ASBA-61-306

Propeller - Blade Inspection

WARRANTY

1. Warranty Eligibility

A. Hartzell Propeller Inc. N7605(B) composite blades used in PHC-J3YF-1N propellers with serial numbers identified in Hartzell Alert Service Bulletin HC-ASB-61-306 and installed on, but not limited to, Cirrus SR 22 aircraft are eligible for this program.

(1) Visual Inspections performed in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306 are eligible under this program until next recommended overhaul interval in accordance with Hartzell Propeller Inc. Service Letter HC-SL-61-61Y, at which time Ultrasonic Inspection must be performed in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306, or until September 30, 2016, whichever occurs first.

(2) Ultrasonic Inspections performed in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306 are eligible under this program until next recommended overhaul interval in accordance with Hartzell Service Letter HC-SL-61-61Y or September 30, 2016, whichever occurs first.

NOTE: The previous expiration date for compliance with the Ultrasonic Inspections was September 30, 2013.

(3) The following propellers/blades had a previous ultrasonic inspection performed in accordance with revision 2 of Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306 by a facility other than the Hartzell Propeller Inc. Service Center and are eligible for re-inspection under this program until next recommended overhaul interval in accordance with Hartzell Propeller Inc. Service Letter HC-SL-61-61Y or July 31, 2019, whichever occurs first.

PROPELLER/HUB SERIAL NUMBER	BLADE SERIAL NUMBERS		
FP4989B	A0004	A0007	A0008
FP5016B	A0016	A0020	A0023
FP5147B	A0046	A0047	A0048
FP5336B	A0239	A0241	A0247
FP5382B	A0242	A0243	A0246
FP5425B	A0229	A0278	A0284
FP5443B	A0305	A0306	A0308
FP5538B	A0333	A0395	A0396
FP5546B	A0397	A0398	A0403
FP5576B	A0428	A0430	A0431

WARRANTY

B. Facilities performing inspection in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306, must complete the Warranty and Equipment Form in this Appendix in order to receive equipment on loan and/or warranty approval for invoicing of related labor.

2. Tooling

A. Hartzell Propeller Inc. will make limited quantities of the following items available for loan:

(1) Transducer

(a) A Panametrics M207, 2.25 MHz, 0.500 inch (12.7 mm) diameter

(b) Includes a Panametrics DLH-2 delay tip, 0.500 inch (12.7 mm) length

(2) Calibration Standard

(a) Hartzell Propeller Inc. P/N 103360

(3) Blade Inspection Template

(a) Hartzell Propeller Inc. P/N 102937

NOTE: The calibration standard and blade inspection template are also available for purchase from Hartzell Propeller Inc.

3. Administration of Warranty Program

NOTE: This warranty program expires at the next recommended overhaul interval in accordance with Hartzell Propeller Inc. Service Letter HC-SL-61-61Y or September 30, 2013, whichever occurs first.

A. Visual Inspections

(1) Hartzell Propeller Inc. will allow a labor charge of $70.00 USD for each visual inspection performed in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306, on each affected propeller. Applicants must provide the following to Hartzell Propeller Inc. Product Support upon completion of the inspection:

(a) Copy of applicable propeller logbook pages that include date and TSN.

(b) A completed HC-ASB-61-306 Report Form.

(c) A completed Warranty and Equipment Form (a blank form is located in this Appendix).

NOTE: This will be considered your labor invoice upon approval.

(2) Upon receipt of the completed forms and required documents, Hartzell Propeller Inc. Product Support will review and assign a warranty number to approved applicants, authorizing payment of the allowed labor charge.

B. Ultrasonic Inspections

(1) Hartzell Propeller Inc. will make available for loan a limited quantity of tooling, as identified in this Appendix, to facilities performing ultrasonic inspection.

NOTE: Personnel performing ultrasonic inspection on the N7605( ) blade must be qualified and certified to Level II or III based on the requirements of the American Society for Nondestructive Testing, Inc. Recommended Practice No. SNT-TC-1A, National Aerospace Standard NAS 410 (replaces MIL-STD-410E), ATA Specification 105, or equivalent international standard such as ISO 9712.

(a) Tooling must be requested and scheduled through Hartzell Propeller Inc. Product Support.

(b) To request loan equipment, complete the Equipment Request portion of the Warranty and Equipment Form included in this Appendix and submit to Hartzell Propeller Inc. Product Support by fax or e-mail.

NOTE: This partially completed form will not be considered your labor invoice. Only upon receipt by Hartzell Propeller Inc. of the loan equipment, the HC-ASB-61-306 Report Form, and the completed Warranty and Equipment Form; will the completed Warranty and Equipment Form be considered your labor invoice.

(c) Upon receipt of the Warranty and Equipment Form, Hartzell Propeller Inc. Product Support will assign a return material authorization (RMA) number for return of the equipment. The equipment will be shipped as available on a first-come, first-served basis.

WARRANTY

WARNING: FAILURE TO RETURN ALL LOANED EQUIPMENT IN ACCORDANCE WITH THESE INSTRUCTIONS WILL RESULT IN CHARGES FOR THE FULL LIST PRICE OF THE LOANED EQUIPMENT.

(d) Equipment is loaned on a temporary basis.

1 Due to limited availablility, each facility will have a maximum of 5 business days to use the loaned equipment and arrange return shipment to Hartzell Propeller Inc. unless prior approval is granted by Hartzell Propeller Inc. Product Support.

2 All loaned equipment must be shipped for return to Hartzell Propeller Inc. within 5 business days of receipt unless prior approval is granted by Hartzell Propeller Inc. Product Support.

3 Failure to ship all loaned equipment within 5 business days of receipt for return to Hartzell Propeller Inc. will result in charges to the requesting facility for the full list price of the tooling unless other arrangements are approved in advance through Hartzell Propeller Inc. Product Support.

(2) Hartzell Propeller Inc. will allow a one-time labor charge of $175.00 USD for ultrasonic inspection performed in accordance with Hartzell Propeller Inc. Alert Service Bulletin HC-ASB-61-306, on each affected propeller. Applicants must provide the following to Hartzell Product Support:

(a) Copy of applicable propeller logbook pages that include date, TSN, and specify that ultrasonic inspection was performed in accordance with HC-ASB-61-306.

1 If the propeller logbook does not specify that ultrasonic inspection was performed in accordance with HC-ASB-61-306, a copy of the maintenance release tag, FAA Form 8130-3 or JAA Form 1 indicating completion of the ultrasonic inspection in accordance with HC-ASB-61-306 must also be provided.

(b) A completed HC-ASB-61-306 Report Form.

WARRANTY

(c) A completed Warranty and Equipment Form from this Appendix. If previously submitted partially complete as an equipment request, the same form should be completed and sent in as the warranty request.

NOTE: This will be considered your labor invoice upon approval and receipt of the HC-ASB-61-306 Report Form, and where applicable, receipt by Hartzell Propeller Inc. of the loan equipment.

(d) Upon receipt of the required documentation and equipment (where applicable) Hartzell Propeller Inc. Product Support will review and assign a warranty number to approved applicants, authorizing payment of the allowed labor charge.

C. Hartzell Propeller Inc. Contact Information

(1) Submit the required forms and documentation for each eligible propeller assembly to:
Hartzell Propeller, Inc.
Attn: 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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HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN APPENDIX

HC-ASBA-61-306

Propeller - Blade Inspection
Warranty and Equipment Form

Scheduled Inspection Date: _____ Completed Inspection Date: _____

Propeller/Blade Model: _____ Propeller Serial Number: _____

TSN: _____ Blade Serial Numbers: _____ _____ _____

Equipment Request (Ultrasonic Inspection Only)

Requested Loan Equipment (check the items needed): DO NOT WRITE: HPI S/N Sent:

_____ Transducer (includes Panametrics M207 and DLH-2 delay tip) _____

_____ Calibration Standard (103360) _____

_____ Blade Inspection Template (102937) _____

Facility Performing Inspection (Shipping Location):

Company: _____ Phone: _____

Contact Name: _____ Fax: _____

Address: _____ E-Mail: _____

_____

City: _____ Zip/Postal Code: _____

State: _____ Country: _____

Warranty Request (Visual Inspection or Ultrasonic Inspection)

Type of Inspection (check one): _____ Visual _____ Ultrasonic

Facility Performing Inspection (Payment Location):

Company: _____ Phone: _____

Contact Name: _____ Fax: _____

Address: _____ E-Mail: _____

_____

City: _____ Zip/Postal Code: _____

State: _____ Country: _____

Inspector's Name: _____

Inspector's Signature (REQUIRED): _____

NOTE: Attach additional documentation as required in accordance with this Appendix.

Hartzell Propeller Inc. use only - do not write below this line

Warranty # _____ RMA# _____ Authorized by: _____

Send Form to:

Hartzell Propeller, Inc.
Product Support
Fax: (001) 937.778.4391
E-Mail: techsupport@hartzellprop.com

Return Loaned Equipment to:

Hartzell Service Center
5465 West State Route 185
Piqua, Ohio 45356 USA
RMA# (use number provided above)

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