

HARTZELL PROPELLER INC.  
**SERVICE LETTER**

HC-SL-30-295

**De-ice: Hartzell De-ice Wire Harness and De-ice Boot  
for Pilatus PC-12**

November 6, 2013

This page transmits a revision to Service Letter HC-SL-30-295.

- Original Issue, dated Oct 09/09
- Revision 1, dated Dec 17/09
- Revision 2, dated Apr 09/10
- Revision 3, dated Nov 06/13

Compliance to Revision 3 of this Service Letter is required at next propeller overhaul. Propeller assemblies that have complied with previous revisions of this Service Letter are not affected.

Changes are shown by a change bar in the left margin of the revised pages. Some changes that do not affect technical content may not be highlighted in this transmittal sheet.

Revision 3 is issued to change the following in the Service Letter:

- This revision refers to Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C for the counterweight modification procedure.
- This revision refers to Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 for installation of the 103253 de-ice kit.
- Update the document format to current standards.

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1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. HC-E4A-3D/E10477(S)K propellers installed on Pilatus PC-12( ) aircraft are affected by this Service Letter.

**CAUTION:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

C. Reason

- (1) Hartzell Propeller Inc. has received reports from the field of premature failures of the 3H2360-4 and the 7931-3E2360-4 de-ice wire harnesses.
- (2) Hartzell Propeller Inc. has designed a new wire harness to replace the 3H2360-4 and the 7931-3E2360-4 de-ice wire harnesses.
- (3) The new design de-ice wire harness requires a new routing of the de-ice components and a new de-ice boot design.
- (4) The new routing of the de-ice components requires modification of the counterweight in accordance with this Service Letter.
- (5) Regulatory action is not expected.

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D. Description

- (1) This document provides Additional Maintenance Information (AMI).
- (2) This revision refers to Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C for the counterweight modification procedure.

NOTE: The counterweight modification procedure was included in previous revisions of this Service Letter.

- (3) This revision refers to Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 for installation of the 103253 de-ice kit.

NOTE: The installation instructions for the 103253 de-ice kit were included in previous revisions of this Service Letter.

- (4) Previous revisions of this Service Letter changed the quantity and location of various mounting components and revised the installation instructions for the 103253 de-ice kit.

(a) Counterweights that were modified in accordance with a previous revision of this Service Letter do not require modification in accordance with Revision 3 of this Service Letter.

- (5) The initial release of this Service Letter introduced the following new parts:

(a) 102900 De-ice Wire Harness

- 1 The new 102900 de-ice wire harness is shorter and attaches to a terminal strip installed on the propeller blade counterweight with a nylon clamp. A new harness bracket attached to the propeller hub improves the de-ice harness routing.

(b) 102855 De-ice Boot

- 1 The new 102855 de-ice boot has a bent lead strap to cover the leadwires. The leadwires are longer to accommodate the wire harness design change.

NOTE 1: Refer to the approved aircraft installation data to determine installation eligibility. Hartzell Propeller Inc. Service Letter HC-SL-30-279 and Hartzell Propeller Inc. Application Guide 159 are FAA accepted sources for this information.

NOTE 2: Hartzell Propeller Inc. Service Letter HC-SL-30-279 and Hartzell Propeller Inc. Application Guide 159 are available at [www.hartzellprop.com](http://www.hartzellprop.com).

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(c) 103253 De-ice Kit

1 The new 103253 de-ice kit identifies the parts required for a propeller with the new de-ice configuration (102900 de-ice wire harness and 102855 de-ice boot). De-ice kits are provided for reference only and cannot be ordered from Hartzell Propeller Inc.

a The new 102900 de-ice wire harness, 102855 de-ice boot, and 103253 de-ice kit must be used in combination on a blade. The new parts cannot be combined with the previous parts on the same blade.

(6) This Service Letter permits installation of blade(s) with the 102900 wire harness and the 102855 de-ice boot on the same propeller assembly as blade(s) with the 3H2360-4 or the 7931-3E2360-4 de-ice wire harness and 4H3051-10 or the 7931-4E3051-10 de-ice boot.

(a) If boots from different manufacturers or different configurations are intermixed on a propeller assembly, static and/or dynamic balancing of the assembly may be required.

(7) The 3H2360-4 de-ice wire harness and 4H3051-10 de-ice boot, will remain available until March 15, 2015 for individual component replacement.

E. Compliance

(1) At the next propeller overhaul, as specified in Hartzell Propeller Inc. Service Letter HC-SL-61-61Y, modify the currently installed D-6021-1 counterweight in accordance with the Accomplishment Instructions in this Service Letter.

NOTE: Counterweights that were modified in accordance with a previous revision of this Service Letter do not require modification in accordance with Revision 3 of this Service Letter.

(2) Install the new 102900 de-ice wire harness, 102855 de-ice boot, and the associated 103253 de-ice kit components in accordance with Hartzell Propeller Inc. Propeller Ice Protection System Manual 180.

(3) At the customer's discretion, installation of the new de-ice configuration components introduced in this Service Letter, may be accomplished before the next propeller overhaul.

NOTE: The new 102900 de-ice wire harness, 102855 de-ice boot, and 103253 de-ice kit must be used in combination on a blade. The new parts cannot be combined with the previous parts on the same blade.

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F. Approval

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

G. Manpower

- (1) When performed in conjunction with a propeller overhaul, approximately 0.75 man hours are required to modify a counterweight in accordance with the accomplishment instructions in this Service Letter.

H. Weight and Balance

- (1) Not changed

I. Electrical Load Data

- (1) Not changed

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J. References

- (1) Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33)
- (2) Hartzell Propeller Inc. Application Guide 159 (61-02-59)
- (3) Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80)
- (4) Hartzell Propeller Inc. Propeller Electrical De-ice Boot Removal and Installation Manual 182 (61-12-82)
- (5) Hartzell Propeller Inc. Service Letter HC-SL-61-61Y
- (6) Hartzell Propeller Inc. Service Letter HC-SL-30-279

K. Other Publications Affected

- (1) None

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2. Material Information

A. Parts Information

- (1) The new de-ice configuration requires the 102855 de-ice boot and the parts identified in the 103253 de-ice kit be used in combination on a blade. The new parts cannot be combined with parts from the previous configuration on the same blade.
  - (a) Refer to Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80) for a complete list of parts identified in the 103253 de-ice kit.

**NOTE:** De-ice kits are provided for reference only and cannot be ordered from Hartzell Propeller Inc.

- (2) Counterweights that have been repaired by drilling the oversized spring pin hole require the new B-6378-7 spring pin as a replacement for the B-3842-0500 spring pin identified in the 103253 de-ice kit.

3. Accomplishment Instructions

- A. Remove the de-ice boot in accordance with Hartzell Propeller Inc. Propeller Electrical De-ice Boot Removal and Installation Manual 182 (61-12-82).
- B. Remove the D-6021-1 counterweight from the blade in accordance with Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33).
- C. Modify the counterweight for use with the new wire harness and de-ice boot in accordance with Hartzell Propeller Inc. Aluminum Blade Overhaul Manual 133C (61-13-33).
- D. Install the de-ice boot in accordance with Hartzell Propeller Inc. Propeller Electrical De-ice Boot Removal and Installation Manual 182 (61-12-82).
- E. Install the 103253 de-ice parts in accordance with Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80).
- F. Make an entry in the propeller logbook indicating compliance with this Service Letter.

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G. 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 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](http://www.hartzellprop.com).

H. Contact Information

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