

HARTZELL PROPELLER INC.
SERVICE BULLETIN
HC-SB-30-371
De-ice - Wire Harness Replacement

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. HC-E4A-2A lightweight turbine propellers that have any of the affected de-ice wire harnesses listed in section 1.A.(1)(a) installed are affected by this Service Bulletin.

(a) Affected de-ice harnesses:

3H2360-5

7931-3E2360-5

3E2360-5

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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 for a cross-reference of service documents.

C. Reason

- (1) Hartzell Propeller Inc. has designed the 106575 wire harness to replace the affected de-ice wire harnesses used on the affected propellers.
- (a) In tests performed by Hartzell Propeller Inc., the 106575 wire harness has demonstrated greater durability than the affected de-ice wire harnesses.
- (b) The 106575 wire harness requires a different routing and additional mounting hardware for installation.
- (2) Regulatory action is not expected.

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D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin introduces the 106575 de-ice wire harness for use on the affected propellers.
 - (a) Affected propellers manufactured by Hartzell Propeller Inc. after the release of this Service Bulletin will incorporate the 106575 wire harness.
 - (b) Hartzell Propeller Inc. will replace orders for any affected wire harness with the 106575 wire harness.
- (3) This Service Bulletin provides instructions for installing the 106575 de-ice wire harnesses on affected propellers while on-wing.
 - (a) Refer to the Material Information section in this Service Bulletin for a complete list of the components required when installing the 106575 wire harnesses on-wing.
- (4) This Service Bulletin provides instructions to change the de-ice system on affected propellers from the previous configuration with the affected wire harnesses to the new configuration with 106575 wire harnesses at propeller overhaul.
 - (a) Refer to the Material Information section in this Service Bulletin for a complete list of the components required to reconfigure the propeller de-ice system at propeller overhaul.
- (5) The installation of 106575 wire harnesses and any affected wire harness on the same propeller assembly is not permitted.

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E. Compliance

- (1) At next propeller overhaul, change the propeller de-ice system to the new configuration by installing the components listed in the Material Information section 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.

- (a) Changing the propeller de-ice system to the new configuration is terminating action for this Service Bulletin.

- OR -

- (2) Before next propeller overhaul, replace the four affected wire harnesses with four 106575 wire harnesses on-wing in accordance with the Accomplishment Instructions in this Service Bulletin.

- (a) Hartzell Propeller Inc. will provide the parts listed in the Material Information of this Service Bulletin under warranty if the propeller meets the eligibility requirements defined in section 1.A. of the Appendix in this Service Bulletin.

- (b) Installation of four 106575 wire harnesses 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.

G. Manpower

- (1) To replace the de-ice system wire harnesses on-wing:

Procedure	Man-hours
Spinner Dome Removal and Installation	0.5 hour
Wire Harness Replacement	2 hours

- (2) To reconfigure the de-ice system at propeller overhaul:

- (a) No additional man-hours are required to change the propeller de-ice system to the new configuration at propeller overhaul.

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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. Service Letter HC-SL-61-61Y
- Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (2) Hartzell Propeller Inc. Propeller Owner's and Logbook Manual 149 (61-00-49)
- Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (3) Hartzell Propeller Inc. Illustrated Tool and Equipment Manual 165A (61-00-65)
- Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (4) Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80)
- Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (5) Hartzell Propeller Inc. Propeller Ice Protection System Component Maintenance Manual 181 (30-60-81) - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (6) Hartzell Propeller Inc. Propeller Electrical De-ice Boot Removal and Installation Manual 182 (61-12-82) - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com
- (7) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02), Volume 7 Consumable Materials and Packaging and Storage - Available on the Hartzell Propeller Inc. website at www.hartzellprop.com

K. Other Publications Affected

- (1) Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80)
- Available on the Hartzell Propeller Inc. website at www.hartzellprop.com

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2. Material Information

A. Parts required to replace the de-ice system wire harnesses on-wing:

<u>Part Number</u>	<u>Description</u>	<u>Qty.</u>
106575	Wire Harness	4
B-6265	Bracket, Wire Harness	4
102691	Bolt, 3/8-24, Hex Head	4
B-3834-0663	Washer	4
B-3834-0632	Washer	4
B-3852-2-0	Strap, Tiedown, Plastic	20
B-3852-5-0	Strap, Tiedown, Plastic	8
B-3852-1-0	Strap, Tiedown, Plastic	8
B-3853-F5	Clamp, Loop, Plastic	4
B-3855-31	Washer, Lock, External Tooth	4
B-3854-42	Washer, Lock	4
B-3837-N832	Washer, Corrosion Resistant	4
B-3856-246	Screw, 8-32, Fillister Head, Cres	4

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B. Parts required to reconfigure the de-ice system at propeller overhaul:

<u>Part Number</u>	<u>Description</u>	<u>Qty.</u>
106575	Wire Harness	4
B-6265	Bracket, Wire Harness	4
102691	Bolt, 3/8-24, Hex Head	4
B-3834-0663	Washer	4
B-3834-0632	Washer	4
B-6637-34	Screw, Pan Head, Cres	8
B-3854-41	Washer, Lock	16
2H1365	Tapped Eyelet	8
B-3852-2-0	Strap, Tiedown, Plastic	20
B-3852-5-0	Strap, Tiedown, Plastic	8
B-3852-1-0	Strap, Tiedown, Plastic	8
B-3384-8H	Bolt, 1/4-28, Hex Head	8
B-3851-0463	Washer	8
B-3853-F5	Clamp, Loop, Plastic	4
B-3855-31	Washer, Lock, External Tooth	4
B-3854-42	Washer, Lock	4
B-3837-N832	Washer, Corrosion Resistant	4
B-3856-246	Screw, 8-32, Fillister Head, Cres	4
4H2271-14	De-ice Boot	4

C. Consumables

<u>CM Number</u>	<u>Description</u>
CM116	Threadlocker, Removable, 50cc

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

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D. Special Tooling

<u>TE Number</u>	<u>Part Number</u>	<u>Description</u>
TE316	9943HART-001	Unfeathering Tool

NOTE 1: All TE numbers in this Service Bulletin refer to Hartzell Propeller Inc. Illustrated Tool and Equipment Manual 165A (61-00-65).

NOTE 2: Hartzell Propeller Inc. has a limited supply of special tools available for loan. Contact the Hartzell Propeller Inc. Product Support Department for availability.

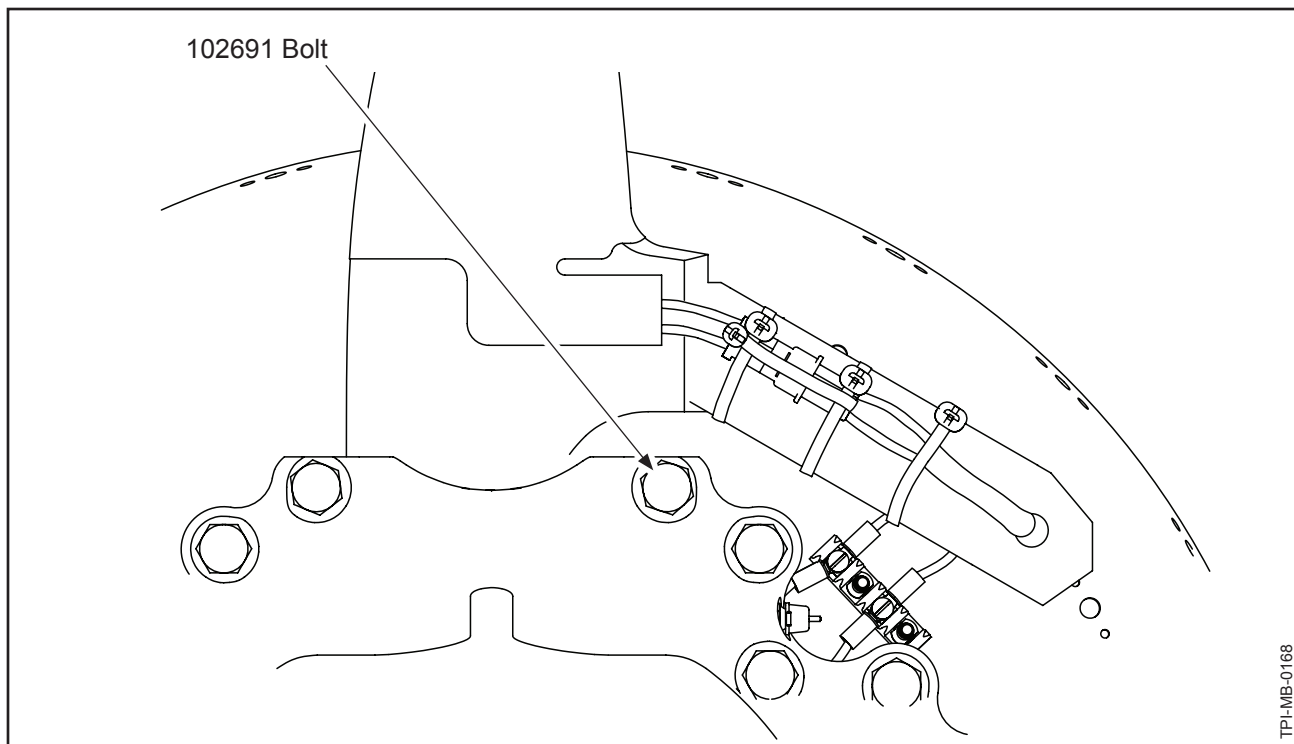
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3. Accomplishment Instructions

A. Replacing the Affected Wire Harnesses with 106575 Wire Harnesses On-wing

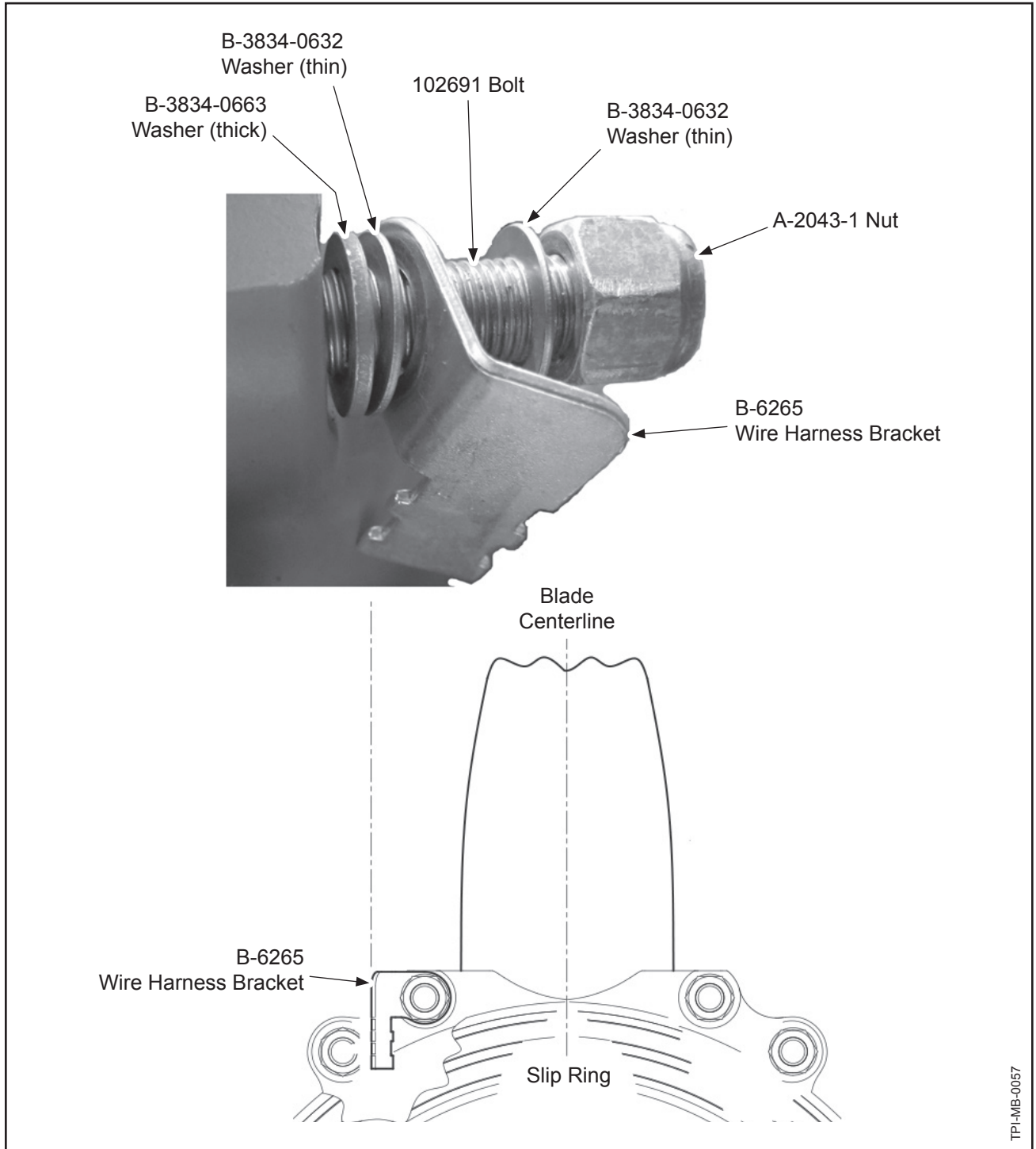
NOTE: Refer to section 1.A.(1)(a) in this Service Bulletin for a list of affected wire harnesses.

- (1) This procedure may be performed on-wing by a certified aircraft mechanic with the appropriate rating or by a certified propeller repair station with the appropriate rating.
- (2) Remove the spinner dome in accordance with Hartzell Propeller Inc. Propeller Owner's and Logbook Manual 149 (61-00-49).
- (3) Replace the hub clamping bolt on the counterweight-side of all four blades.
 - (a) Remove the A-2043-1 nut, B-3834-0632 washer, and A-2432 bolt from the hub on the counterweight-side of all four blades. Refer to Figure 1.
 - 1 Keep the four A-2043-1 nuts and B-3834-0632 washers for later use.
 - (b) Install 102691 bolts through the hub on the counterweight-side of all four blades.



Installing the 102691 Bolts
Figure 1

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Installing the B-6265 Wire Harness Bracket
Figure 2

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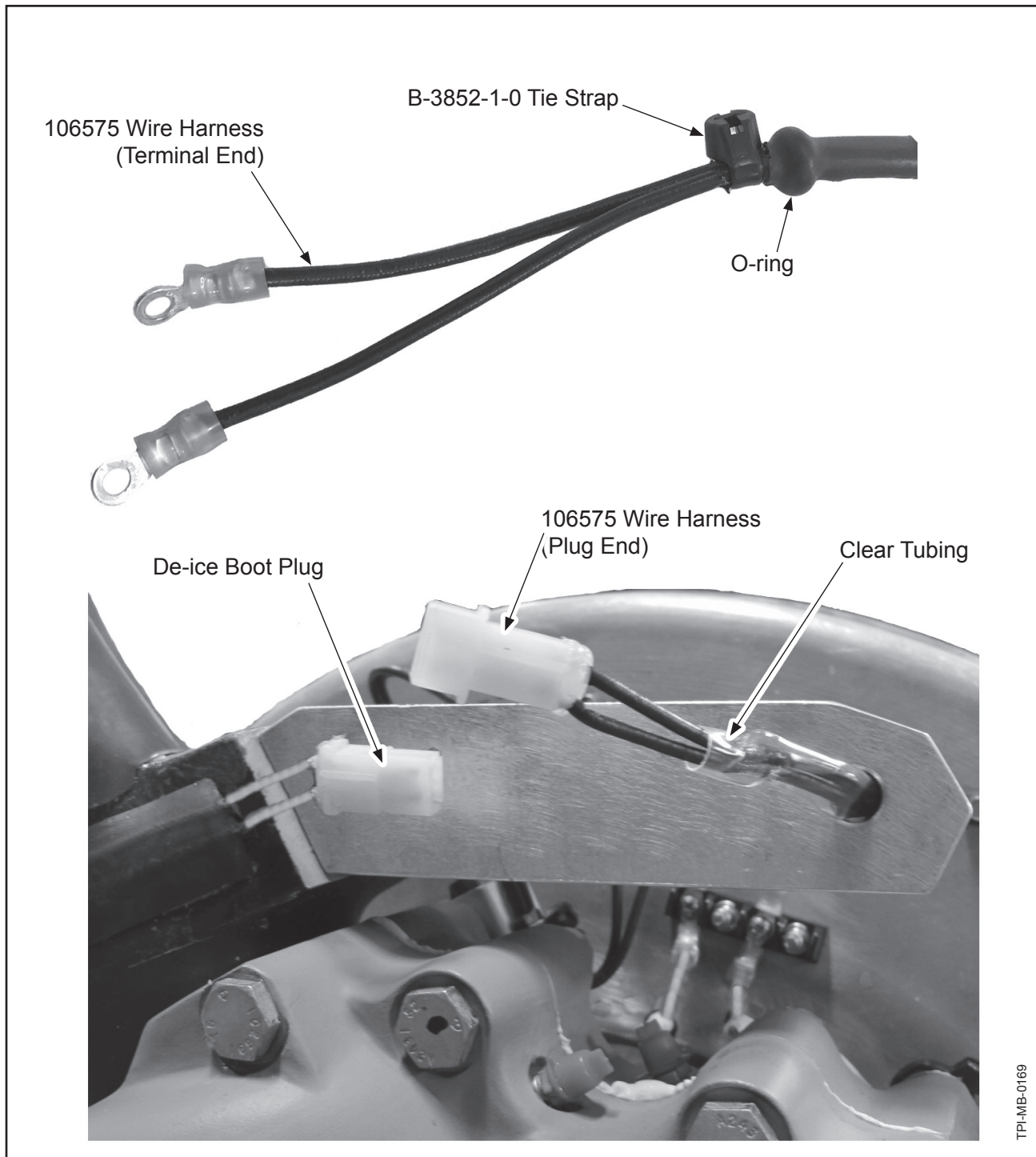
- (4) Install the B-6265 wire harness bracket as shown in Figure 2.
 - (a) Install one B-3834-0663 washer (thick), one B-3834-0632 washer (thin), one B-6265 wire harness bracket, one B-3834-0632 washer (thin), and one A-2043-1 nut onto the 102691 bolt.
 - (b) Install the B-6265 wire harness bracket so that the long edge of the bracket is parallel with the blade centerline as shown in Figure 2.
 - (c) Torque the A-2043-1 nut (dry) to 20 - 24 Ft-Lbs (28 - 32 N•m).
 - (d) Repeat step 3.A.(4)(a) through 3.A.(4)(c) for each blade.
- (5) If possible, move the propeller to low pitch using the propeller unfeathering tool TE316 or equivalent.

NOTE: Moving the propeller to low pitch will permit better access to complete the installation of the wire harness.

CAUTION: DO NOT ATTEMPT TO MOVE THE PROPELLER BLADES THROUGH THE LOW PITCH MECHANICAL STOPS.

- (a) Install the propeller unfeathering tool TE316 or equivalent.
 - 1 Hand tighten the threaded rod of the unfeathering tool TE316 onto the end of the pitch change rod as far as possible.
 - 2 Put the cylindrical part of the unfeathering tool TE316 over the threaded rod and against the propeller cylinder.
 - 3 Install the 1-1/2 inch nut onto the threaded rod of the unfeathering tool TE316.
 - 4 Turn the 1-1/2 inch nut until it contacts the thrust bearing.
 - 5 Continue turning the 1-1/2 inch nut until the blades move to low pitch.
- (6) Cut and remove all of the tie straps that hold the affected wire harness.
- (7) Remove and discard the B-6735 loop clamp and the attaching hardware that holds the affected wire harness to the bulkhead.
- (8) Remove and discard the B-6735 loop clamp and the attaching hardware that holds the affected wire harness to the counterweight.
- (9) Separate the plug connection between the affected wire harness and the de-ice boot.
- (10) Disconnect the affected wire harness leads from the terminal strip.
 - (a) Keep the terminal strip screws and washers for later use.
- (11) Remove and discard the affected wire harness.
- (12) Repeat steps 3.A.(6) thru 3.A.(11) for each affected wire harness.

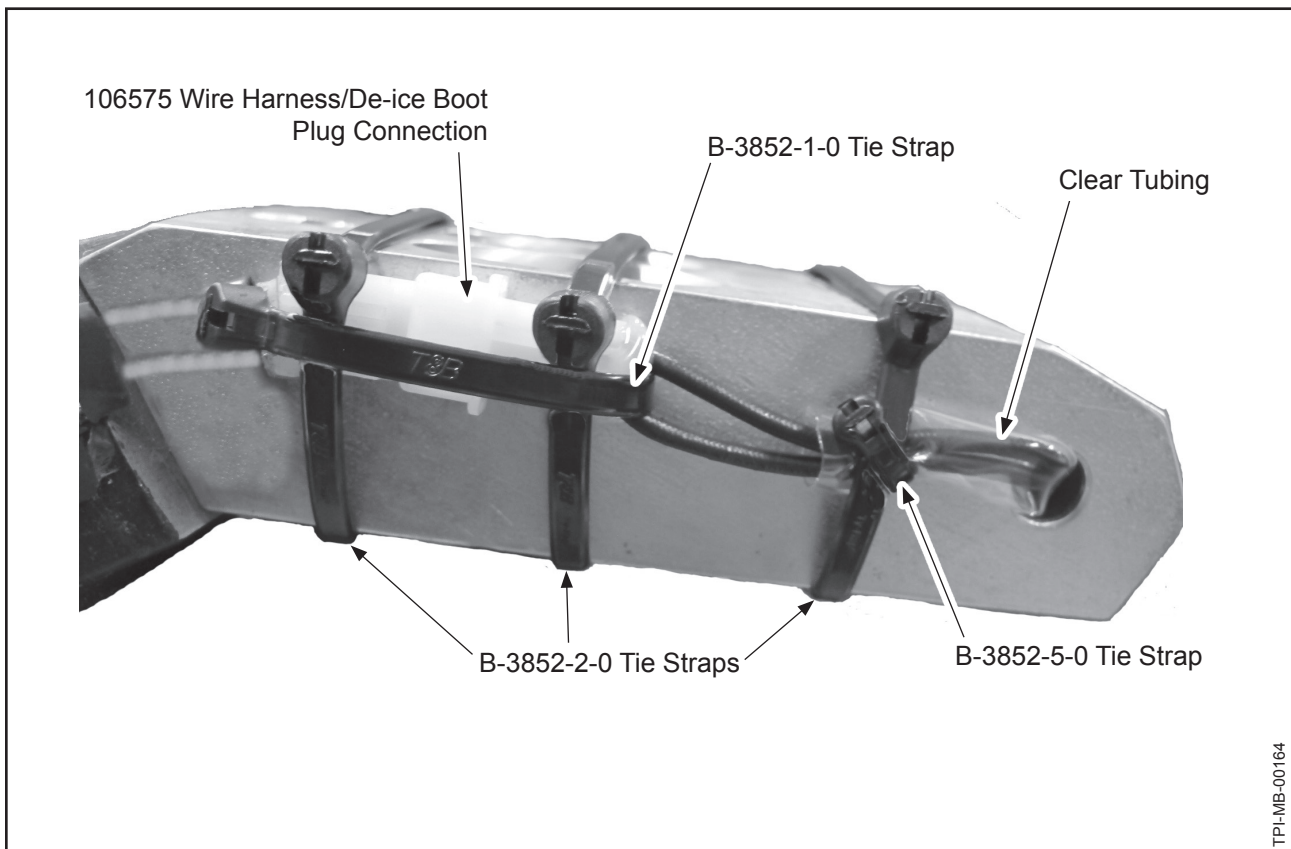
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Routing the 106575 Wire Harness
Figure 3

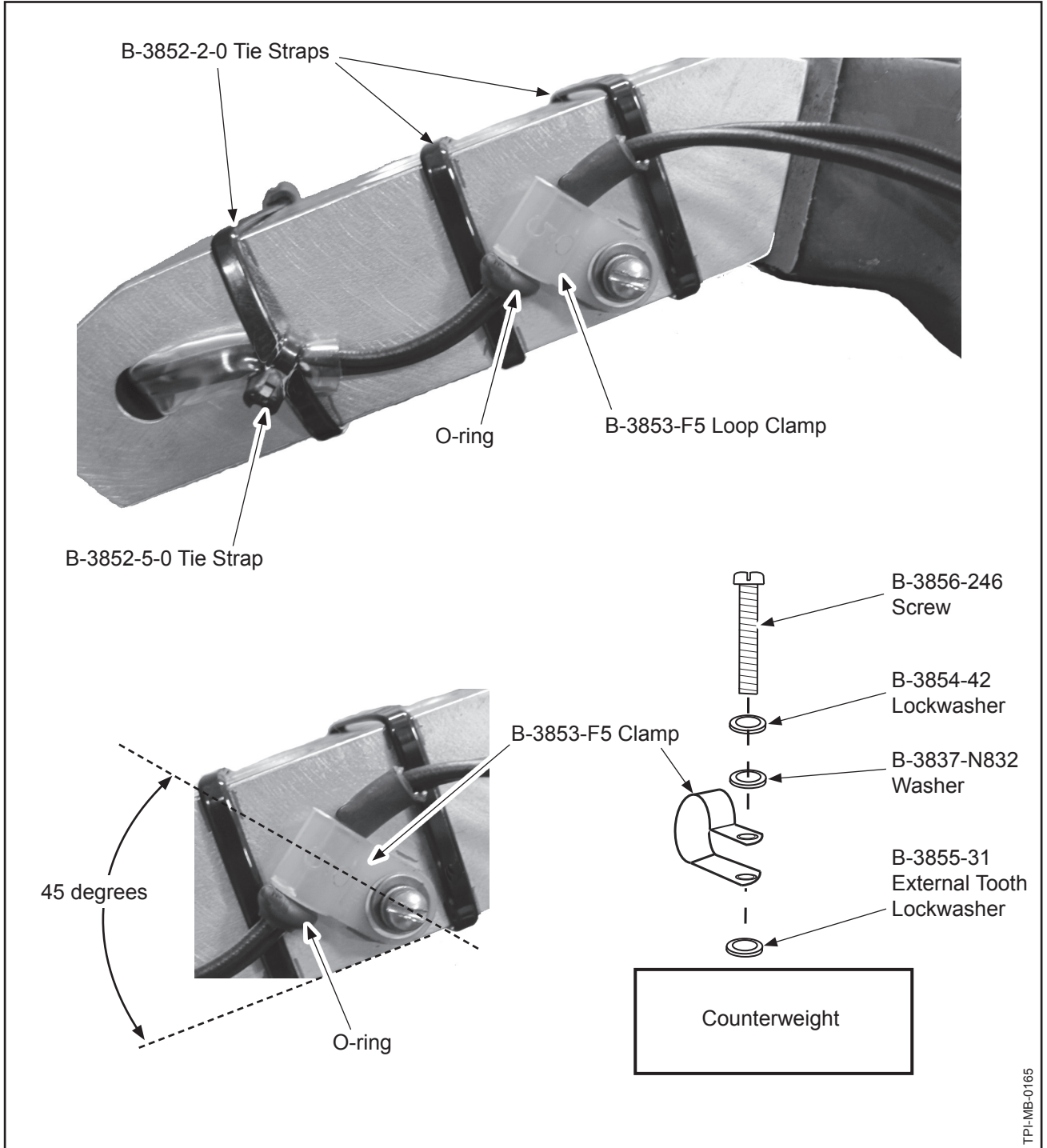
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- (13) Route the 106575 wire harness.
- (a) Route the terminal-end of the 106575 wire harness through the hole in the counterweight as shown in Figure 3.
- 1 Move the 106575 wire harness so that equal lengths of the clear tubing are on each side of the counterweight.
- (14) Install one B-3852-1-0 tie strap around the 106575 wire harness below the O-ring at the terminal-end of the harness as shown in Figure 3.
- (15) Assemble the plug connection between the 106575 wire harness and the de-ice boot.
- (a) Install one B-3852-1-0 tie strap around the wire harness/de-ice boot plug connection as shown in Figure 4. Do not tighten the tie strap.



106575 Wire Harness/De-ice Boot Plug Connection
Figure 4

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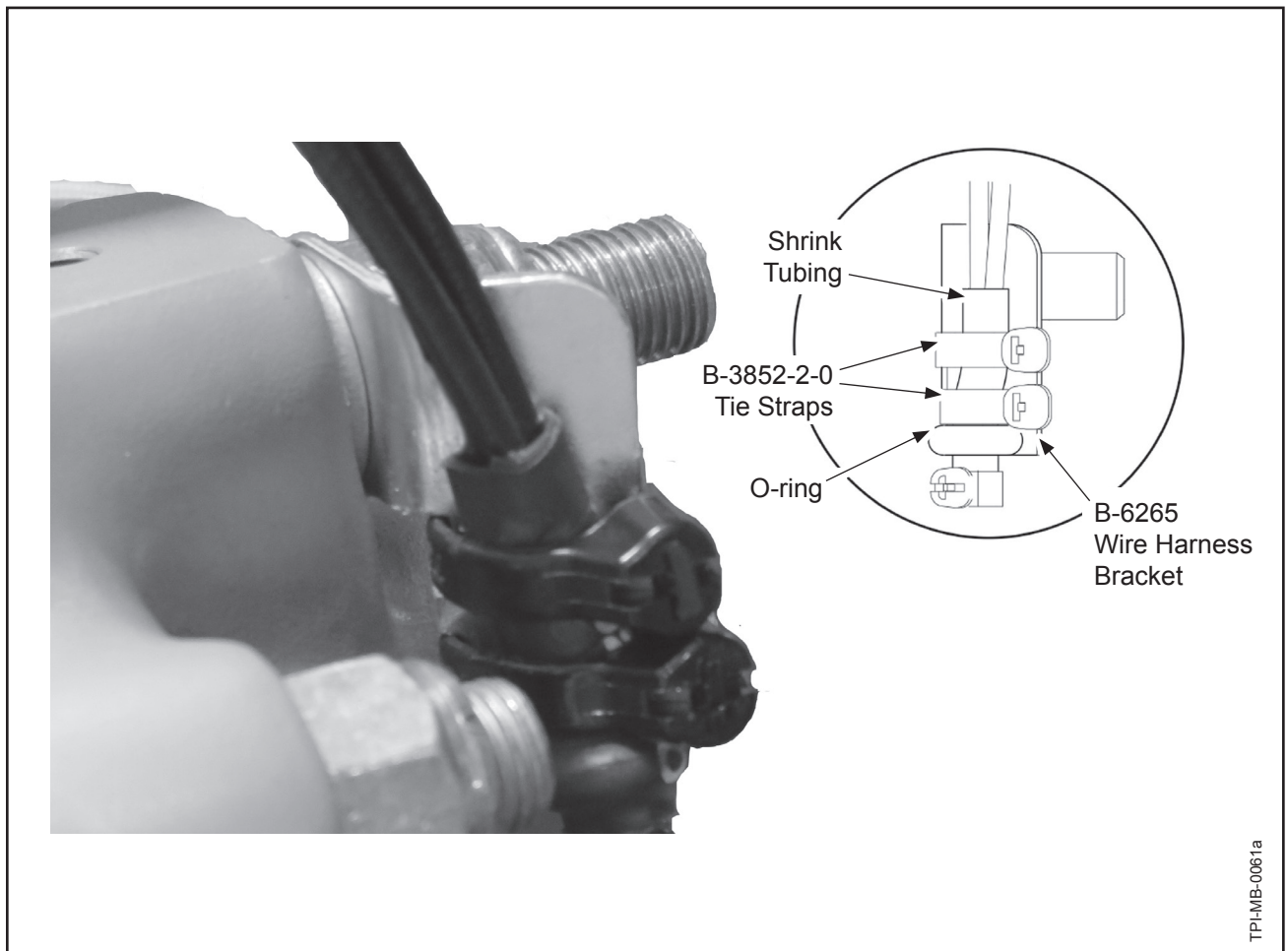
106575 Wire Harness Routing
Figure 5

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- (16) Install the B-3853-F5 clamp around the 106575 wire harness with the O-ring positioned against the clamp as shown in Figure 5.
- (a) Apply threadlocking adhesive CM116 to the threads of the B-3856-246 screw.
 - (b) Using the B-3856-246 screw, B-3854-42 lockwasher, B-3837-N832 washer, and B-3855-31 external tooth lockwasher install the B-3853-F5 clamp to the counterweight in accordance with Figure 5.
 - (c) Torque the B-3856-246 screw to 15-18 In-Lbs (1.6-2.0 N•m).
- (17) Attach the 106575 wire harness/de-ice boot connection to the counterweight.
- (a) Install two B-3852-2-0 tie straps under the B-3852-1-0 tie strap holding the plug connection, and around the counterweight/wire harness as shown in Figure 4 and Figure 5. Do not tighten the tie straps.
 - 1 Position the heads of the two B-3852-2-0 tie straps as shown in Figure 4.
 - (b) Install one B-3852-2-0 tie strap around the counterweight, and over the clear tubing on the 106575 wire harness as shown in Figure 4 and Figure 5. Do not tighten the tie strap.
 - 1 Make sure the B-3852-2-0 tie strap is over the clear tubing of the 106575 wire harness on both sides of the counterweight.
 - 2 Install one B-3852-5-0 tie strap around the clear tubing on the 106575 wire harness and the B-3852-2-0 tie strap on both sides of the counterweight as shown in Figure 4 and Figure 5.
Do not tighten the tie strap.
- (18) Make sure that the wire harness/tie straps are installed correctly, then tighten all of the tie straps in the following order:
- (a) The B-3852-1-0 tie strap around the wire harness/de-ice boot plug connection
 - (b) The three B-3852-2-0 tie straps around the wire harness/counterweight
 - (c) The two B-3852-5-0 tie straps around the B-3852-2-0 tie strap.

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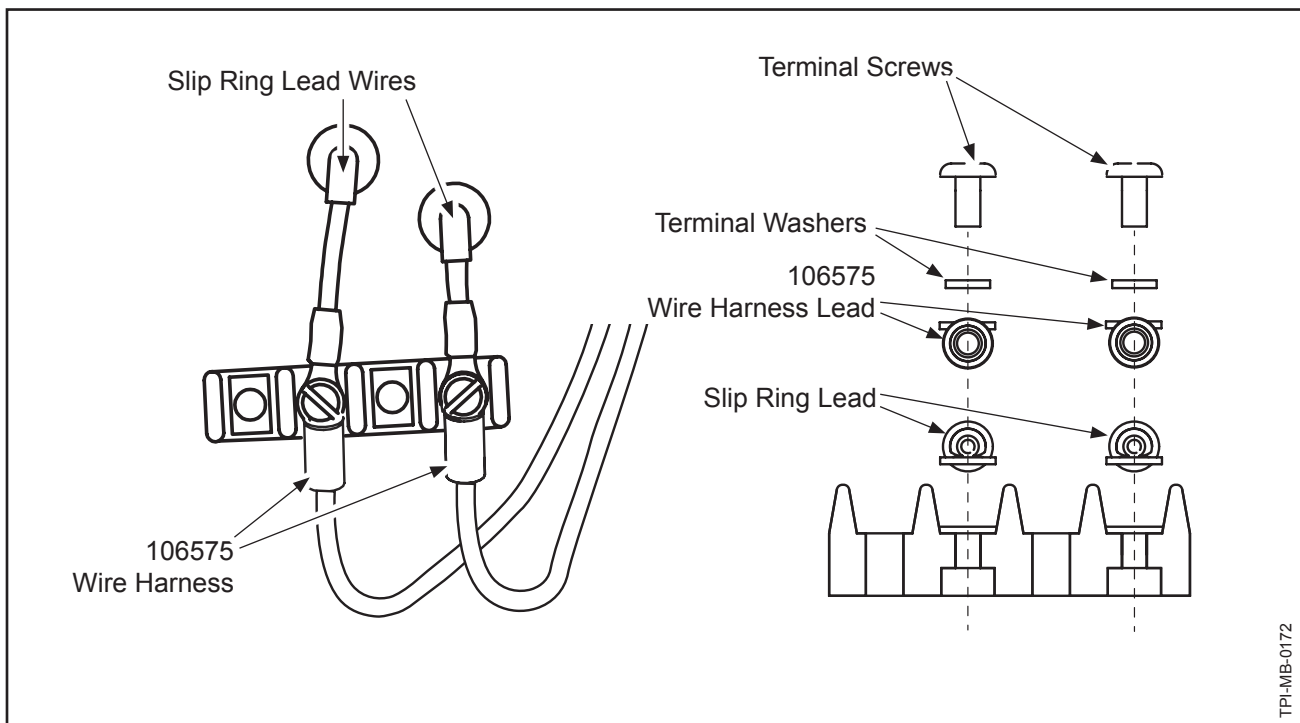
- (19) Attach the 106575 wire harness to the B-6265 wire harness bracket.
- (a) Put the O-ring/shrink tubing on the terminal end of the 106575 wire harness so that the O-ring is at the bottom of the B-6265 wire harness bracket as shown in Figure 6.
- 1 Make sure the lead wires are not twisted or bent sharply.
- (b) Install and tighten two B-3852-2-0 tie straps around the bracket and the shrink tubing on the wire harness as shown in Figure 6.
- 1 Put the tie straps in the grooves on the wire harness bracket.
- 2 Put the heads of the tie straps as shown in Figure 6.



Securing the 106575 Wire Harness to the B-6265 Wire Harness Bracket
Figure 6

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- (20) Install the slip ring lead wires and the 106575 wire harness leads to the terminal strip in accordance with Figure 7.
 - (a) Install the ring terminals as shown in Figure 7.
 - (b) Install the terminal screws and washers as shown in Figure 7.
 - (c) Tighten the terminal screws until snug.
- (21) Repeat steps 3.A.(13) thru 3.A.(20) for each blade.
- (22) If applicable, move the propeller to feather position and remove the unfeathering tool TE316 or equivalent.
- (23) Install the spinner dome in accordance with Hartzell Propeller Inc. Propeller Owner's and Logbook Manual 149 (61-00-49).
- (24) Perform the "Propeller De-ice Operational Check" in accordance with the Check chapter of Hartzell Propeller Inc. Propeller Ice Protection System Component Maintenance Manual 181 (30-60-81).
- (25) Make an entry in the propeller logbook indicating installation of four 106575 wire harnesses as terminating action for this Service Bulletin.



Terminal Strip Connections
Figure 7

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B. Reconfiguring the Propeller De-ice System - Performed at Propeller Overhaul

- (1) Install the components listed in the Material Information section of this Service Bulletin in accordance with the installation instructions for the 106576 de-ice kit in Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80).
 - (a) For instructions about removal and installation of the de-ice boot, refer to Hartzell Propeller Inc. Electrical De-ice Boot Removal and Installation Manual 182 (61-12-82).
- (2) Make an entry in the propeller logbook indicating reconfiguration of the propeller de-ice system as terminating action for this Service Bulletin.

C. 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.

D. 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

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HARTZELL PROPELLER INC.
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1. Eligibility

A. Hartzell Propeller Inc. HC-E4A-2A lightweight turbine propellers that meet all of the criteria specified in section 1.A.(1) and 1.A.(2) of this Appendix are eligible for this warranty program.

(1) Wire harness replacement is required because of failure of an affected de-ice wire harness.

(a) Affected de-ice wire harnesses:

3H2360-5 7931-3E2360-5 3E2360-5

(b) Warranty will not be granted for de-ice wire harnesses replaced at propeller overhaul or for functional/unbroken wire harnesses replaced before propeller overhaul.

(c) Under this warranty program, Hartzell Propeller Inc. will provide the parts required to replace all four wire harnesses on-wing.

1 Refer to the section, "Material Information" in this Service Bulletin for a complete list of parts that will be provided.

(2) The affected propeller or failed wire harness is within the Hartzell Propeller Inc. warranty period for new propellers or replacement parts.

(a) To validate the replacement part warranty period for a failed wire harness, a copy of the sales invoice/purchase order for the failed wire harness must be provided to Hartzell Propeller Inc.

2. Warranty Expiration

A. The expiration of this warranty program will coincide with the expiration date of the Hartzell Propeller Inc. warranty for the affected propeller or replacement de-ice wire harness.

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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, or contact Hartzell Propeller Inc. Product Support Department.

4. Warranty Program

A. Wire Harness Replacement (Terminating Action)

(1) Parts

- (a) Hartzell Propeller Inc. will provide the parts required to replace all four wire harnesses on-wing free of charge for affected propellers/de-ice harnesses that meet the eligibility requirements for the warranty program as specified in section 1, Eligibility of this Appendix.
 - 1 Refer to the section, "Material Information" in this Service Bulletin for a complete list of parts that will be provided.
- (b) Complete and sign the Parts Order/Compliance Form in this Service Bulletin Appendix and send it to Hartzell Propeller Inc. for processing.
 - 1 To validate the replacement part warranty period for a failed wire harness, a copy of the sales invoice/purchase order for the failed wire harness must be provided to Hartzell Propeller Inc.
 - 2 Hartzell Propeller Inc. will review the completed form and assign a warranty claim number to approved applicants.
 - 3 Refer to the Material Information section of this Service Bulletin for a list of the parts that will be supplied by Hartzell Propeller Inc.

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(2) Labor

- (a) Hartzell Propeller Inc. will authorize payment for the allowable labor charges associated with wire harness replacement for affected propellers/de-ice harnesses that meet the eligibility requirements for the warranty program as specified in section 1, Eligibility of this Appendix.
- (b) Send the invoice for labor charges associated with the wire harness replacement to Hartzell Propeller Inc. for processing.
 - 1 Reference the same warranty claim number issued by Hartzell Propeller Inc. for the replacement parts order when submitting the associated labor invoice for payment.
 - 2 Refer to the Manpower section of this Service Bulletin for warranted procedures and allowable man-hours.
 - a Labor charges will be reimbursed at the service facility's CURRENT POSTED SHOP LABOR RATE, pending Hartzell Propeller Inc. approval.

B. Contact Information

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

Hartzell Propeller Inc.
Attn: Service Bulletin 371 Coordinator
One Propeller Place
Piqua, OH 45356 USA
Phone: 937.778.4379
Fax: 937.778.4215 (Intl. 001.937.778.4215)
E-mail: techsupport@hartzellprop.com

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Parts Order/Compliance Form

Warranty Claim Number:		
Propeller Information:		
Propeller Model:	Propeller S/N:	
Aircraft Model:	Aircraft Registration #:	
Warranty Eligibility Verification:		
Number of broken harnesses on the affected propeller:		
Refer to section 1.A. in this Service Bulletin Appendix for additional warranty eligibility requirements.		
Owner Information:		
Name:		
City:	State:	
Zip/Postal Code:	Country:	
E-mail:	Phone:	
Repair Facility/Shipping Information:		
Company:	Contact Name:	
Address:		
City:	State:	
Zip/Postal Code:	Country:	
E-mail:	Phone:	Fax:
Replacement Parts:		
Refer to the Material Information section in this Service Bulletin for a list of parts that will be provided.		
Signature:		
Repair Technician's Signature:	Date:	
Send this completed and signed 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:

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