

HARTZELL PROPELLER INC.
SERVICE BULLETIN
HC-SB-61-327

Propeller - Inspection of D-4511(L)(P) Spinner

1. Planning Information

A. Effectivity

- (1) Hartzell aluminum hub propellers HC-()4Y()-() installed that have the D-4511-(L)(P) spinner assembly installed are affected by this Service Bulletin.
 - (a) These propellers may be installed on, but are not limited to, Hawker Beechcraft 95-() (55,58) Baron aircraft with Colemill Enterprises STC conversion and Piper PA-31 Navajo aircraft with Colemill Enterprises STC conversion.

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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. 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 website at www.hartzellprop.com for a cross-reference of service documents.

C. Reason

- (1) The D-4512-2(L)(P) spinner dome in the D-4511-(L)(P) spinner assembly has had in-service cracking events, causing a high replacement rate.
- (2) A large area washer, part number 104018, and longer screw, part number B-3845-9, have been introduced to provide support to the stressed area and reduce cracking issues.
- (3) This Service Bulletin is a temporary measure until a new spinner dome or assembly can be designed to eliminate cracking issues on the affected applications.
- (4) Regulatory action is not expected.

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D. Description

- (1) This Service Bulletin requires a preflight inspection of affected spinner assemblies.
- (2) This Service Bulletin permits installation of the new 104018 washer and the B-3845-9 screw as additional components of the affected spinner assemblies.
 - (a) Installation is required for Hawker Beechcraft 95-() (55,58) Baron aircraft with Colemill Enterprises STC conversion and Piper PA-31 Navajo aircraft with Colemill Enterprises STC conversion.

E. Compliance

- (1) For all installations, perform propeller pre-flight inspections in accordance with Hartzell Owner's Manual 115N (61-00-15).

WARNING: DO NOT OPERATE THE AIRCRAFT WITH A CRACKED SPINNER DOME OR SPINNER ASSEMBLY. FAILURE TO COMPLY MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE.

- (a) If a crack is found during inspection, replacement of the damaged spinner component(s), in accordance with this Service Bulletin, is required before further flight.
 - 1 Contact Hartzell Product Support for replacement information.
- (b) If a crack is not found during inspection:
 - 1 Complete the Terminating Action for this Service Bulletin within 13 calendar months or 50 flight hours, whichever occurs first, from January 14, 2011, the original publication date of this Service Bulletin.
 - 2 At the discretion of the owner/operator, any spinner assembly approved in accordance with the applicable Supplemental Type Certificate and the Terminating Action for this Service Bulletin may be installed in place of the D-4511-(L)(P) spinner assembly at any time.
- (2) Terminating Action:
 - (a) Compliance with the Terminating Action is required for Hawker Beechcraft 95-() (55,58) Baron aircraft with Colemill Enterprises STC conversion and Piper PA-31 Navajo aircraft with Colemill Enterprises STC conversion.
 - (b) Installation of the washers, part number 104018, and longer screws, part number B-3845-9, in accordance with the Accomplishment Instructions in this Service Bulletin is terminating action for this Service Bulletin.

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F. Approval

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

G. Manpower

- (1) Approximately 0.5 man hours are required for removal of the existing screws and installation of the 104018 washers and B-3845-9 screws.

H. Weight and Balance

- (1) Completion of the Terminating Action will increase the weight of the spinner by:
 - (a) 0.082 lb (37.19 g) for installation in 8 locations (required) only.
 - (b) 0.165 lb (74.84 g) for installation in 16 locations (optional).

I. References

- (1) Hartzell Propeller Owner's Manual 115N (61-00-15)

J. Other Publications Affected

- (1) Hartzell Metal Spinner Maintenance Manual 127 (61-16-27)

2. Material Information

A. Material Necessary for Each Propeller

<u>Part Number</u>	<u>Description</u>	<u>Qty Required</u>	<u>Additional Qty (Optional)</u>
104018	washer	8	8
B-3845-9	screw, 10-32, truss head	8	8

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3. Accomplishment Instructions

A. Spinner Pre-flight Inspection

- (1) Perform propeller pre-flight inspections in accordance with Hartzell Owner's Manual 115N (61-00-15).

WARNING: DO NOT OPERATE THE AIRCRAFT WITH A CRACKED SPINNER DOME OR ASSEMBLY. FAILURE TO COMPLY MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE.

- (a) If a crack is found, the cracked spinner component(s) must be replaced before further flight.

- 1 Remove the spinner component(s), and propeller as required, in accordance with Hartzell Owner's Manual 115N (61-00-15).
- 2 Retire the cracked metal spinner component(s) from service in accordance with the Part Retirement Procedures chapter of Hartzell Standard Practices Manual 202A (61-01-02).

NOTE: The Parts Retirement Form is available on the Hartzell Propeller website at www.hartzellprop.com.

- 3 Contact Hartzell Product Support for spinner component replacement information.

- (b) If a spinner crack is not found, proceed to section 3.B. for Hardware Installation.

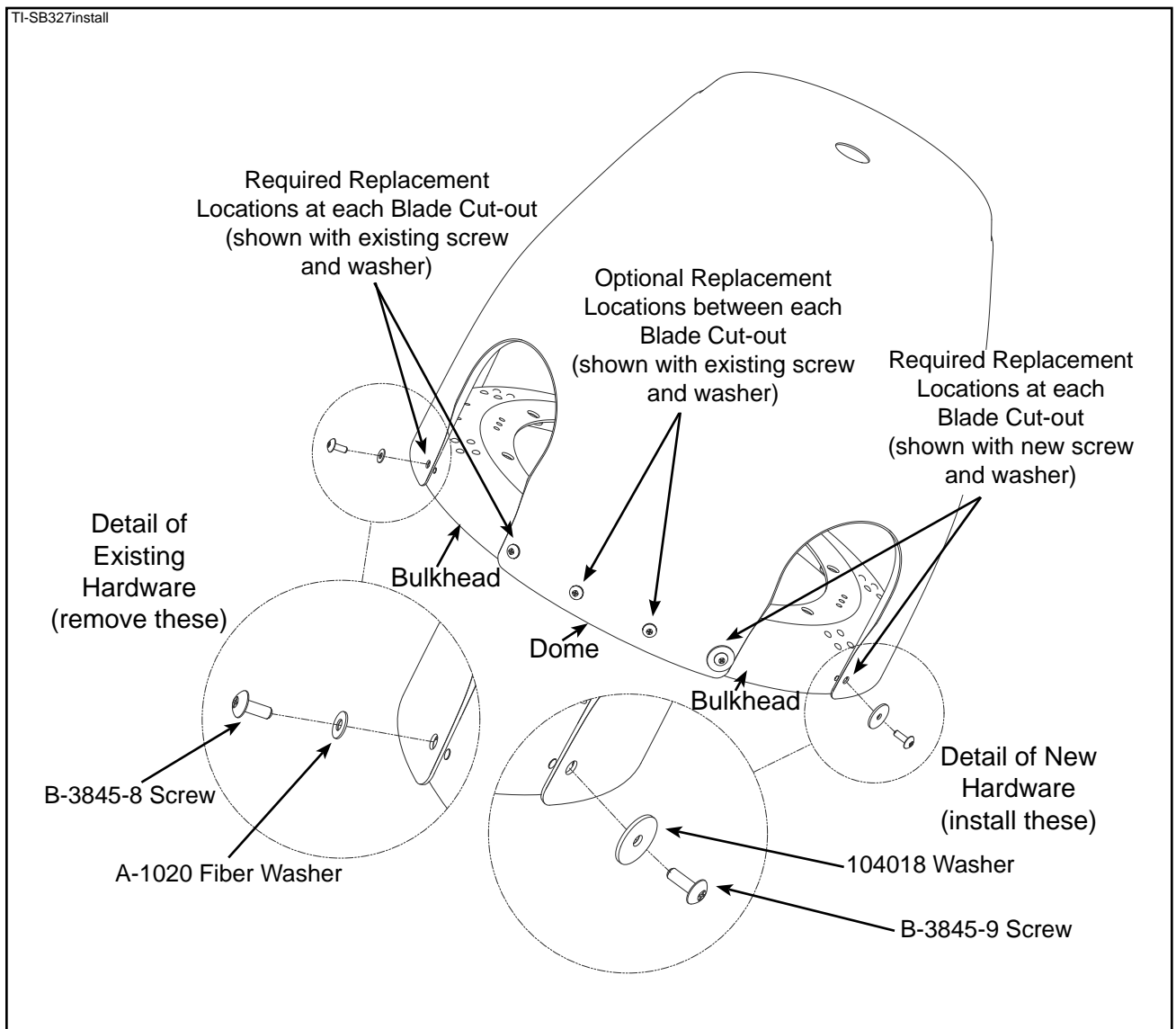
B. Hardware Installation - Terminating Action

- (1) Within the flight time and calendar limits stated in the Compliance section of this Service Bulletin:
- (a) Perform a visual inspection of the spinner assembly in accordance with Hartzell Owner's Manual 115N (61-00-15).
 - (b) Remove the spinner cap and spinner dome in accordance with Hartzell Owner's Manual 115N (61-00-15).
 - 1 Retain the assembly hardware for re-installation.
 - (c) Remove the propeller in accordance with Hartzell Propeller Owner's Manual 115N (61-00-15).

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- (d) Visually inspect the D-4513-(P) bulkhead for cracks.
- 1 If a crack is found, return to section 3.A.(1)(a).
 - 2 If a crack is not found, install the propeller in accordance with Hartzell Owner's Manual 115N (61-00-15).



Location of Required and Optional 104018 Washers and B-3845-9 Screws

Figure 1

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- (e) Using eight (8) of the 104018 washers and eight (8) of the B-3845-9 screws in the locations identified in Figure 1, as an alternative to eight (8) of the removed fiber washers and screws, install the spinner dome in accordance with Hartzell Owner's Manual 115N (61-00-15).
 - 1 Replacement of the washers and screws in only the eight (8) locations identified in Figure 1 are required for Terminating Action of this Service Bulletin.
 - 2 At the discretion of the owner/operator, all 16 removed fiber washers and screws may be replaced with the 104018 washer and the B-3845-9 screw.
 - 3 After installation is complete, discard all remaining washers and screws.

C. Make an entry in the propeller logbook indicating compliance with the Terminating Action of this Service Bulletin.

D. Instructions for Continuing Airworthiness

- (1) The 104018 washer and the B-3845-9 screw must be replaced at propeller overhaul.

E. Contact Information

Hartzell Propeller Inc.
Attn.: Hartzell 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

HARTZELL PROPELLER INC.
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1. Eligibility

- A. Hartzell aluminum hub propellers HC-()4Y()-() installed that have the D-4511-(L)(P) spinner assembly installed are affected by this Service Bulletin.
- (1) These propellers may be installed on, but are not limited to, Hawker Beechcraft 95-() (55,58) Baron aircraft with Colemill Enterprises STC conversion and Piper PA-31 Navajo aircraft with Colemill Enterprises STC conversion.
 - (2) The only applications eligible for this warranty program are the Hawker Beechcraft 95-() (55,58) Baron aircraft with Colemill Enterprises STC conversion and Piper PA-31 Navajo aircraft with Colemill Enterprises STC conversion.
- B. This warranty program will expire on February 29, 2012.

2. Warranty Program

- A. Hartzell will provide the following required components for eligible installations at no charge when requested in accordance with this Appendix:

<u>Part Number</u>	<u>Description</u>	<u>Qty Required</u>
104018	washer	8
B-3845-9	screw, 10-32 truss head	8

B. Order Administration

- (1) The Order Form in this Appendix must be completed and sent to Hartzell Product Support as a request for the components.
 - (a) The completed Order Form may be sent by fax or e-mail to Hartzell Product Support.
- (2) Hartzell Product Support will review the Order Form to verify applicability for the requested components and warranty program eligibility.
 - (a) Upon verification, an order will be processed for the requested components. Items will be shipped as soon as possible.
 - (b) If the request cannot be verified, Hartzell Product Support will contact the facility and/or owner to discuss further options.
- (3) At the discretion of the owner/operator, optional components may be ordered in addition to the required components provided under this warranty program.
 - (a) These additional components are not part of this warranty program and are NOT provided free of charge.

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- (b) If shipping to the owner/operator, credit card information must be provided for these additional components.
- (c) If shipping to a separate location (Service Facility), a purchase order number must be provided for these additional components.

C. Contact Information

Hartzell Propeller Inc.
Attn: Hartzell Product Support - SB327
One Propeller Place
Piqua, Ohio 45356-2634 USA
Phone: (001) 937.778.4379
Fax: (001) 937.778.4391
Email: techsupport@hartzellprop.com

WARRANTY PROGRAM HAS EXPIRED

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Order Form

Owner Information: If ordering optional items, credit card information must be provided, refer to 2.B.(3).

Name: _____ Phone: _____
Address: _____ Fax: _____
_____ E-Mail: _____
City: _____ Zip/Postal Code: _____
State: _____ Country: _____
Credit Card Number: _____ Expiration: _____ Code: _____

Service/Shipping Location: (Complete below or check box if same as Owner Information)

Company: _____ Phone: _____
Contact Name: _____ Fax: _____
Address: _____ E-Mail: _____
_____ PO # (refer to 2.B.(3)): _____
City: _____ Zip/Postal Code: _____
State: _____ Country: _____

Propeller Model: _____ Aircraft Model: _____
Blade Model: _____ Aircraft Registration #: _____
STC #: _____ Propeller TSN: _____
Propeller S/N: _____ Spinner Dome P/N: _____
Spinner Dome S/N: _____ Spinner Dome TSN: _____
Are any current spinner components cracked? (Y/N) dome: _____ bulkhead: _____

Required Components are eligible for this warranty program and are required for compliance with HC-SB-61-327. Optional Components are in addition to the required components, are not eligible for this warranty program, and require the inclusion of credit card or purchase order information above.

Select Requested Components:

<input type="checkbox"/> Required Components (free of charge)	<input type="checkbox"/> Optional Components (CC or PO required)
104018 washer, qty 8	104018 washer, qty 8
B-3845-9 screw, 10-32 truss head, qty 8	B-3845-9 screw, 10-32 truss head, qty 8

Send this Order Form to:

Hartzell Product Support
Fax: (001) 937.778.4391
E-Mail: techsupport@hartzellprop.com OR warranty@hartzellprop.com

Hartzell use only - do not write below this line

Warranty #: _____ Authorized by: _____

Jan 14/11

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WARRANTY PROGRAM HAS EXPIRED