

HARTZELL PROPELLER INC.
SERVICE LETTER

HC-SL-61-362

Propeller - A-1851-T Blade Retention Bearings

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. steel hub propeller models HC-B(3,4,5)() ()-() are affected by this Service Letter.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

C. Reason

- (1) Hartzell Propeller Inc. is introducing a design change to the A-1851-T() blade retention bearings used on the affected propellers.

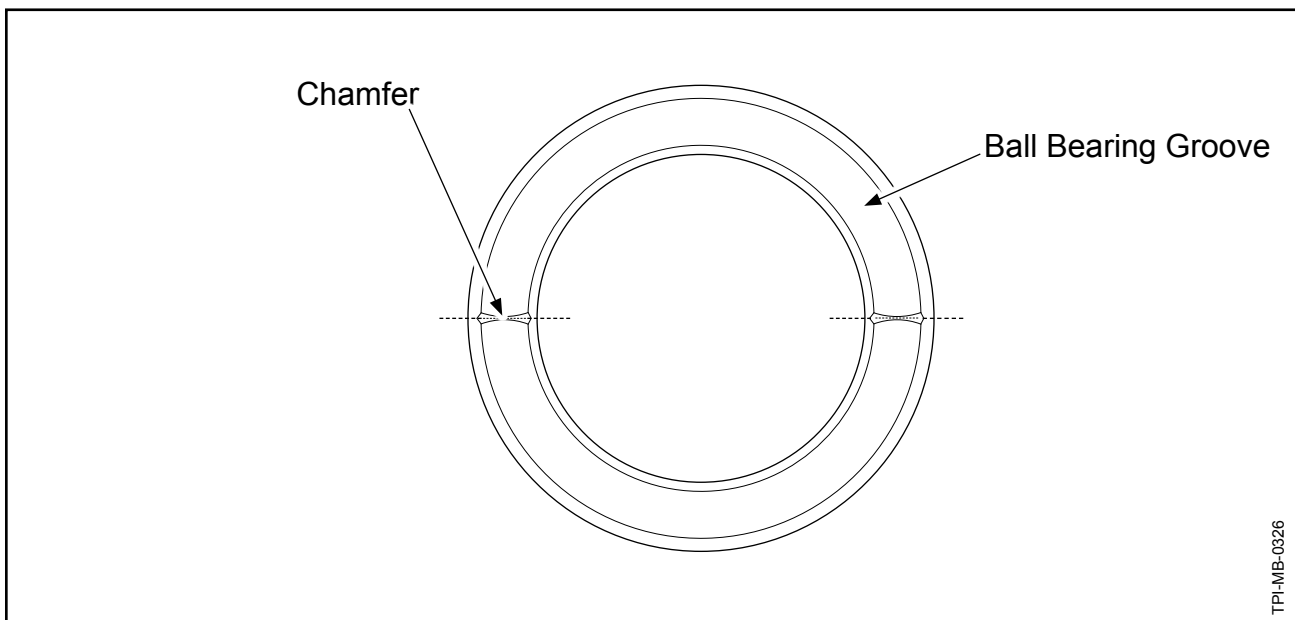
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D. Description

- (1) This Service Letter provides Additional Maintenance Information (AMI).
- (2) This Service Letter introduces a redesigned A-1851-T () blade retention bearing that has a chamfer in the ball bearing groove at the mating surfaces of the race halves. Refer to Figure 1.
 - (a) All A-1851-T () blade retention bearings manufactured by Hartzell Propeller Inc. after the release date of this Service Letter will be the new design.
- (3) Existing inventory of A-1851-T blade retention bearings and A-1851-T(A,B) bearing races without the chamfer at the mating surfaces of the race halves can be used.
- (4) When installing A-1851-T(A,B) bearing races, both mating halves must be of the same design (with ball bearing groove chamfer or without ball bearing groove chamfer).
 - (a) Mixing old design/new design A-1851-T(A,B) bearing race sets on the same propeller blade is not permitted.
 - (b) Mixing old design/new design A-1851-T(A,B) bearing race sets in the same propeller is permitted.



**Redesigned A-1851-T Blade Retention Bearing
Figure 1**

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E. Approval

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

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F. References

- (1) Hartzell Propeller Inc. Steel Hub Turbine Propeller Maintenance Manual 118F (61-10-18)
- (2) Hartzell Propeller Inc. Five-Blade Steel Hub Turbine Engine Propeller Overhaul and Maintenance Manual 132A (61-10-32)
- (3) Hartzell Propeller Inc. Steel Hub Reciprocating Propeller Overhaul and Maintenance Manual 177 (61-10-77)

G. Other Publications Affected

- (1) None

2. Material Information

A. A-1851-T Blade Retention Bearing

Part Number	Description
A-1851-T	Bearing, Retention, Blade - includes:
	• A-1851-TA (Race, Hub-side - qty. 1)
	• A-1851-TB (Race, Blade-side - qty. 1)
	• B-6144-2 (Ball, Bearing, 9/16" dia. - qty. 19)
	• A-1877 (Retainer, Bearing, Wire - qty. 1)

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3. Contact Information

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