

HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

TRANSMITTAL SHEET

HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm

October 27, 2014

This page transmits a revision to Alert Service Bulletin HC-ASB-61-338.

- Original Issue, dated Nov 07/12
- Revision 1, dated Dec 18/12
- Revision 2, dated Apr 23/13
- Revision 3, dated Feb 03/14
- Revision 4, dated Oct 27/14

Propeller assemblies that have complied with the actions required in Revision 2 or earlier of this Alert Service Bulletin are affected by this revision.

Propeller assemblies that have complied with the terminating action in Revision 3 of this Alert Service Bulletin are not affected by this revision.

FAA acceptance 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.

This revision is issued to change the following in the Alert Service Bulletin:

- Remove references to the warranty program and the Warranty/Compliance Form
- Remove the Appendix section and the Warranty/Compliance Form

NOTE: The warranty program officially expired on April 30, 2014, but was extended until October 31, 2014.

This Alert Service Bulletin is reissued in its entirety.

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HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm

1. Planning Information

A. Effectivity

- (1) Hartzell Propeller Inc. steel hub propeller models HC-(1,D)2(X,V,MV)20-7, HC-(1,D)2(X,V,MV)20-8, and HC-(1,D)3(X,V,MV)20-8 with the original design B-119-2 diaphragm that did not include a tab for identification, are affected by this Alert Service Bulletin.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN. INFORMATION CONTAINED IN THIS ALERT SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS ALERT 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 ALERT SERVICE BULLETIN.

B. Concurrent Requirements

- (1) Hartzell Propeller Inc. Service Bulletin HC-SB-61-217, HC-SB-61-331, Service Letter HC-SL-61-48A, and Airworthiness Directive 65-21-04, 85-14-10, 97-18-02, and 2013-15-04 may be applicable.
- (2) 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.

ALERT SERVICE BULLETIN

HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm

C. Reason

- (1) Hartzell Propeller Inc. has received several reports of failure of the B-119-2 diaphragm.
- (2) Failure of the B-119-2 diaphragm can quickly result in complete loss of engine oil and rapid engine shutdown with oil covering the windscreen.
- (3) Revision 1 of this Alert Service Bulletin introduced the new B-119-2 diaphragm. The B-119-2 diaphragm has been redesigned to improve the service life of the diaphragm.
- (4) Revision 2 of this Alert Service Bulletin removed previous inspection criteria.
- (5) FAA Airworthiness Directive 2013-15-04 addresses this issue.

D. Description

- (1) This document provides Instructions for Continued Airworthiness (ICA).
- (2) The original issue of this Alert Service Bulletin required an initial and repetitive inspection of the B-119-2 diaphragm.
- (3) The original design B-119-2 diaphragm did not include a tab for identification.
- (4) Revision 1 to this Alert Service Bulletin required replacement of the original design B-119-2 diaphragm.
 - (a) The redesigned B-119-2 diaphragm was designed with a tab located between two of the mounting tabs on the outside edge of the diaphragm. Refer to Figure 1.

NOTE: This tab will be marked with a batch/lot number.

- (5) Revision 2 to this Alert Service Bulletin removed the inspection portion of this Alert Service Bulletin and required replacement of the old style B-119-2 diaphragm.
- (6) Revision 3 to this Alert Service Bulletin required that original design B-119-2 diaphragms in inventory or stock be removed and returned to Hartzell Propeller Inc.
- (7) Revision 4 to this Alert Service Bulletin removes the Appendix section, the Warranty/Compliance Form, and all references to the warranty program.

NOTE: The warranty program officially expired on April 30, 2014, but was extended until October 31, 2014

ALERT SERVICE BULLETIN

HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm

E. Compliance

- (1) Within 30 days of the date of this Alert Service Bulletin, return any original design B-119-2 diaphragm in inventory or stock to Hartzell Propeller Inc. in accordance with the Accomplishments Instructions in the Alert Service Bulletin. Installation of any original design B-119-2 diaphragm in inventory or stock, is not permitted.
- (2) Replace an original design B-119-2 diaphragm within 10 hours of operation or at next annual inspection, whichever occurs first, after the date of Revision 2 to this Alert Service Bulletin, April 23, 2013.
- (3) Replacement of the original design B-119-2 diaphragm with a redesigned B-119-2 diaphragm is terminating action for steps (1) and (2) in the Compliance section of this Alert Service Bulletin.
- (4) After initial replacement with a redesigned B-119-2 diaphragm, replace the B-119-2 diaphragm in accordance with Hartzell Propeller Inc. Service Letter HC-SL-61-48A.

F. Approval

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

G. Manpower

- (1) Approximately 4 man hours are required for removal and installation of the diaphragm.

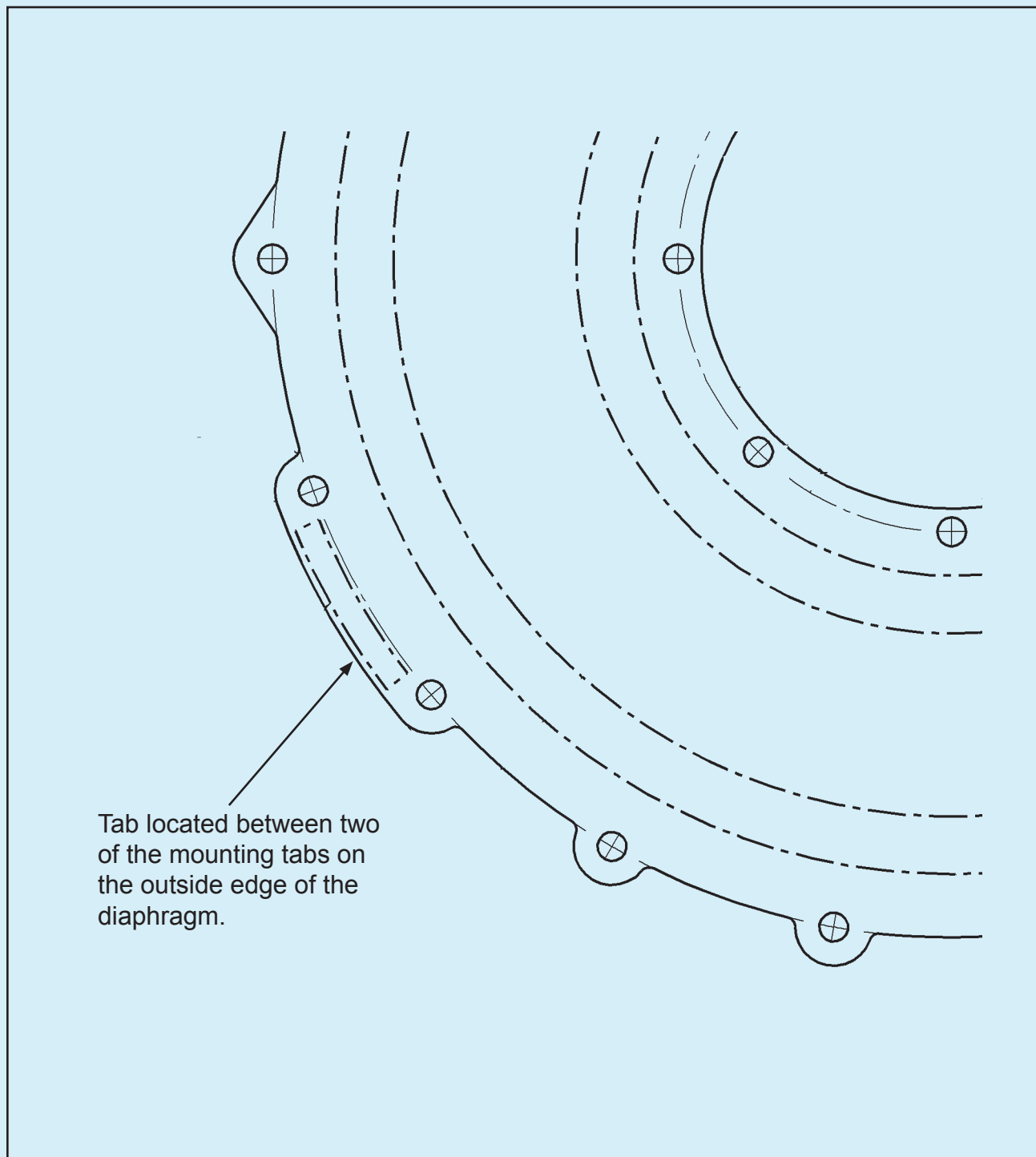
H. Weight and Balance

- (1) Not changed

ALERT SERVICE BULLETIN

HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm



**B-119-2 Redesigned Diaphragm
Figure 1**

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ALERT SERVICE BULLETIN

HC-ASB-61-338

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I. Electrical Load Data

- (1) Not changed

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J. References

- (1) FAA Airworthiness Directive 2013-15-04
- (2) Hartzell Propeller Inc. Service Letter HC-SL-61-48A
- (3) Hartzell Propeller Inc. Owner's Manual 140 (61-00-40), revision 3 or later

K. Other Publications Affected

- (1) None

2. Material Information

A. Material Necessary for Each Propeller/Component and Supplied by Hartzell Propeller Inc.

<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
Redesigned B-119-2	Diaphragm	1

ALERT SERVICE BULLETIN

HC-ASB-61-338

Propeller - Replacement of B-119-2 Diaphragm

3. Accomplishment Instructions

A. Diaphragm Replacement

- (1) Removal of the propeller from the aircraft and replacement of the B-119-2 diaphragm in accordance with these instructions must be performed by a certified aircraft mechanic with the appropriate rating, or a certified propeller repair station with the appropriate rating.
- (2) If applicable, remove the spinner dome in accordance with Hartzell Propeller Inc. Owner's Manual 140 (61-00-40), revision 3 or later.
- (3) Remove and replace the original design B-119-2 diaphragm in the hydraulic unit in accordance with Hartzell Propeller Inc. Owner's Manual 140 (61-00-40), revision 3 or later.
- (4) Discard the original design B-119-2 diaphragm.
- (5) Assemble the hydraulic unit and the propeller in accordance with Hartzell Propeller Inc. Owner's Manual 140 (61-00-40), revision 3 or later.
- (6) Make an entry in the propeller logbook indicating replacement of the original design B-119-2 diaphragm as terminating action for steps (1) and (2) in the Compliance section of this Alert Service Bulletin.

B. Contact Information

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