

HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

TRANSMITTAL SHEET

HC-ASB-61-313

Propeller - Counterweight Slug Bolt Inspection

March 27, 2009

This page transmits a revision to Alert Service Bulletin HC-ASB-61-313.

- Original Issue, dated Nov 17/08
- Revision 1, dated Dec 12/08
- Revision 2, dated Mar 27/09

Propeller assemblies and inventories that have previously complied with the inspections required in a previous revision of this Alert Service Bulletin are not affected by this revision.

FAA approval 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:

- Consolidate Table 1 information listing affected models.
- Remove redundant illustration from Figure 1.

This Alert Service Bulletin is reissued in its entirety.

HARTZELL PROPELLER INC.

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Propeller - Counterweight Slug Bolt Inspection

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Propeller - Counterweight Slug Bolt Inspection

1. Planning Information

A. Effectivity

- (1) Hartzell steel hub turbine propeller models listed in Table 1 are affected by this Alert Service Bulletin; installed on, but not limited to, the aircraft listed in Table 1.
- (2) All B-3386-14H bolts, LFC manufacturing lot 224, in inventory / stock are affected by this Alert Service Bulletin.
- (3) Propeller and component orders including the B-3386-14H bolt that shipped from Hartzell Propeller Inc. on October 23, 2008 or later were from a different lot number and are not affected by this Alert Service Bulletin.
 - (a) LFC manufacturing lot 224 bolts were first received at Hartzell Propeller Inc. on March 31, 2007 and were not in use for manufacturing or service before that time.
- (4) Any B-3386-14H bolt installed as part of an unaffected propeller model, where it is used for something other than a counterweight slug attachment bolt, is not affected by this Alert Service Bulletin.

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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 BY A REVISION. USE OF OBSOLETE INFORMATION 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) None

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C. Reason

WARNING: BOLT FAILURE MAY RESULT IN COUNTERWEIGHT SLUG SEPARATION FROM THE PROPELLER. FAILURE MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. UNUSUAL OR ABNORMAL VIBRATION DEMANDS IMMEDIATE INSPECTION FOR POSSIBLE BOLT FAILURE.

- (1) Instances of bolt failure have been reported on the B-3386-14H counterweight slug attachment bolt from the LFC manufacturing lot 224, causing the counterweight slug to separate from the propeller.
- (2) The failure of the bolt caused the bolt head to separate from the bolt grip.
- (3) The failure of the bolt was because of a manufacturing defect in the bolt.
- (4) Regulatory action (Airworthiness Directive) is expected on this subject.

D. Description

- (1) This Alert Service Bulletin requires a one time on-wing inspection of each counterweight slug attachment bolt for the affected installations and replacement of the affected bolts.
- (2) This Alert Service Bulletin requires inspection of all B-3386-14H bolts in inventory, including overhaul kits, for the affected lot with quarantine and replacement of all affected bolts.
- (3) This Alert Service Bulletin provides instructions for replacement of the affected counterweight slug attachment bolts as terminating action for this Alert Service Bulletin.

NOTE: Hartzell Product Support may request the return of affected bolts on a case-by-case basis. Affected bolts should **NOT** be returned unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.

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E. Compliance

- (1) Perform the on-wing visual inspection and replace the affected counterweight slug attachment bolts within 50 flight hours from the date of receipt of the original issue of this Alert Service Bulletin, released on November 17, 2008.
- (2) Before use or within 30 days from the issue date of of the original issue of this Alert Service Bulletin, released on November 17, 2008, whichever occurs first, perform the visual inspection for all bolts in stock, including bolts packaged as a component in overhaul kits for the affected propeller models.
 - (a) Immediately quarantine all affected bolts for subsequent replacement.

F. Approval

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

G. Manpower

- (1) Approximately 1.0 man-hour for each propeller is required to perform the on-wing visual inspection.
- (2) Additionally, a maximum of 1.0 man-hour is required to perform replacement of all counterweight slug attachment bolts for a five-blade propeller.

H. Weight and Balance

- (1) Propeller static balance should not be affected when accomplished in accordance with the Accomplishment Instructions in this Alert Service Bulletin.
- (2) Propeller dynamic balance should not be affected when accomplished in accordance with the Accomplishment Instructions in this Alert Service Bulletin.

I. Electrical Load Data

- (1) No change

J. References

- (1) Hartzell Propeller Owner's Manual 139 (Steel Hub/Aluminum Blades)
- (2) Hartzell Propeller Owner's Manual 146 (Steel Hub/Composite Blades)

K. Other Publications Affected

- (1) None

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2. Material Information

A. Material Supplied by Hartzell Propeller (if replacement is necessary)

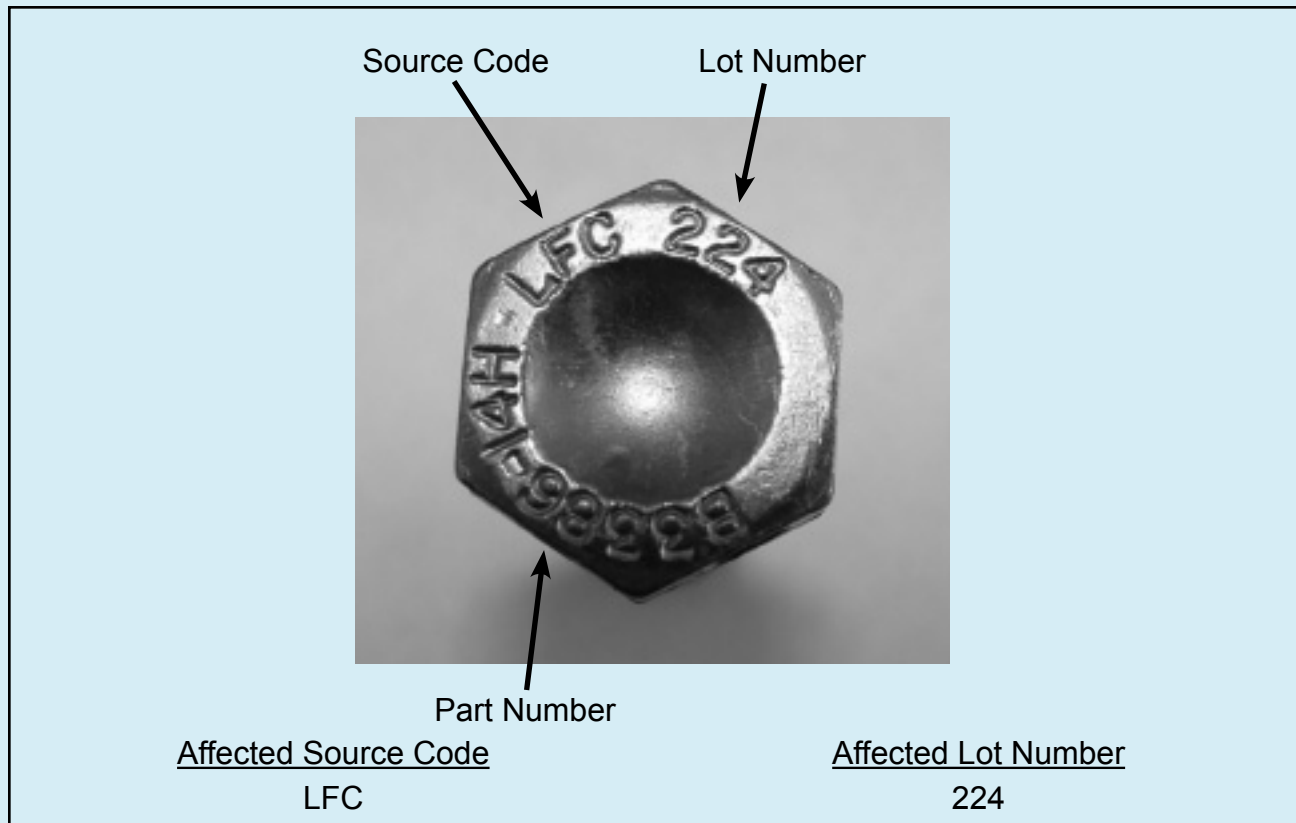
<u>Part Number</u>	<u>Keyword</u>	<u>Qty</u>
B-3386-14H	Hex Head Bolt	As Required

B. Expendables

0.032 inch (0.81 mm) Stainless Steel Safety Wire

C. Special Tooling

None



Counterweight Slug Attachment Bolt Identification
Figure 1

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Propeller - Counterweight Slug Bolt Inspection

3. Accomplishment Instructions

A. On-Wing Procedure

- (1) The following procedures may be performed on-wing without removal of the propeller and must be performed by a certified aircraft mechanic, or qualified personnel from a propeller repair station, or qualified personnel from an original equipment manufacturer (product approval holder).
- (2) Remove the spinner dome in accordance with the applicable Hartzell Propeller Owner's Manual.

NOTE: Hartzell Owner's Manuals can be viewed or downloaded from the left margin Product Support link on the Hartzell website at www.hartzellprop.com then selecting HPI Owner's Manuals.

(3) Visual Inspection

- (a) Inspect each B-3386-14H counterweight slug attachment bolt on the propeller for the affected LFC manufacturing lot. See Figure 1.
 - 1 Bolts marked from another source code or lot number other than 224 are not affected by this Alert Service Bulletin.
 - 2 If only one counterweight slug attachment bolt on a counterweight slug is from the affected LFC manufacturing lot 224, both bolts may require replacement.
 - 3 Visually inspect all LFC manufacturing lot 224 counterweight slug attachment bolts for the following obvious signs of failure:

NOTE: Additional visual inspection will be accomplished upon removal of affected bolts as some signs may not be visible until the bolt is removed.

- a An obviously bent shaft.
- b Any obvious cracking.
- c The head of the bolt is separated from the shaft.

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- 4 If the affected LFC manufacturing lot 224 counterweight slug attachment bolt does not show any of the above signs of failure:
 - a Only the affected LFC manufacturing lot 224 counterweight slug attachment bolt must be replaced in accordance with the Bolt Replacement section in these Accomplishment Instructions. The other counterweight slug attachment bolt from other than LFC manufacturing lot 224 in the same slug, is acceptable for continued service and does not need to be replaced in accordance with this Alert Service Bulletin.
 - b If the above signs of failure are not evident at visual inspection, but become evident during Bolt Replacement, refer to step 3.A.(3)(a)5.
- 5 If the affected bolt does show any of the signs of failure listed in item 3.A.(3)(a)3:
 - a Both counterweight slug attachment bolts on the slug must be replaced as affected bolts in accordance with the Bolt Replacement section in these Accomplishment Instructions.
- 6 Affected bolts must be replaced within 50 flight hours from the receipt date of the original issue of this Alert Service Bulletin, released on November 17, 2008, in accordance with these Accomplishment Instructions.
- 7 Contact Hartzell Product Support to report bolts with any of the above signs of failure before further flight.

Hartzell Propeller
Product Support
Phone: (001) 937.778.4379 option 3
Fax: (001) 937.778.4391
E-mail: techsupport@hartzellprop.com

NOTE: Hartzell Product Support MAY request the return of any counterweight slug attachment bolts affected by or replaced in accordance with this Alert Service Bulletin. Do **NOT** return affected bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.

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- (b) If affected bolts are identified for replacement, complete the compliance form in the Appendix of this Alert Service Bulletin and send it to Hartzell Propeller.

Hartzell Propeller Inc
Attn: Alert Service Bulletin 313 Coordinator
One Propeller Place
Piqua, Ohio 45356

E-mail: techsupport@hartzellprop.com or warranty@hartzellprop.com
Fax: (001) 937.778.4391

NOTE: Replacement parts will be sent upon receipt of the Alert Service Bulletin Compliance Form.

- (c) If further flight is permitted in accordance with the Compliance section of this Alert Service Bulletin, re-install the spinner dome in accordance with the applicable Hartzell Propeller Owner's Manual.
- (4) Bolt Replacement

WARNING: COUNTERWEIGHT SLUG ATTACHMENT BOLTS REPLACED IN ACCORDANCE WITH THIS ALERT SERVICE BULLETIN MUST NOT BE USED IN ANY PROPELLER APPLICATION.

- (a) If the spinner dome is installed, remove the spinner dome in accordance with the applicable Hartzell Propeller Owner's Manual.
- (b) For each counterweight slug attachment bolt to be replaced, use the following method to avoid any change in propeller balance. If only one counterweight slug attachment bolt on a counterweight slug is from the affected lot 224, both bolts may require replacement. Refer to step 3.A.(3)(a) in this Alert Service Bulletin.

CAUTION: REPLACE ONLY ONE BOLT AT A TIME FROM A COUNTERWEIGHT SLUG TO MAKE SURE THE COUNTERWEIGHT SLUG DOES NOT MOVE.

- 1 Cut and remove the safety wire between the two B-3386-14H counterweight slug attachment bolts that attach the counterweight slug to the counterweight.
- 2 If only one of the counterweight slug attachment bolts on a slug must be replaced in accordance with step 3.A.(3)(a) of this Alert Service Bulletin:
 - a Remove the affected counterweight slug attachment bolt from the counterweight slug unit.

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- b Visually confirm the initial inspection of the removed, affected bolt for the signs of failure listed in step 3.A.(3)(a)3. If any of these obvious signs of failure are present, both bolts in the counterweight slug unit must be replaced in accordance with step 3.A.(3)(a). Proceed to step 3.A.(4)(b)3.
 - c Install one new B-3386-14H bolt that is not from LFC manufacturing lot 224 in the hole where the original bolt has been removed.
 - d Using a calibrated torque wrench, torque the bolt to 36 ft-lb (48.8 N•m) dry torque.
 - e Proceed to step 3.A.(4)(b)4.
- 3 If both of the counterweight slug attachment bolts on a slug must be replaced in accordance with step 3.A.(3)(a) of this Alert Service Bulletin:
 - a Remove only one of the counterweight slug attachment bolts from the counterweight slug.
 - b Install one new B-3386-14H bolt that is not from LFC manufacturing lot 224 in the hole where the original bolt has been removed.
 - c Using a calibrated torque wrench, torque the bolt to an initial torque value of 30 ft-lb (40.7 N•m) dry torque.
 - d Remove the remaining original counterweight slug attachment bolt from the counterweight slug.
 - e Install one new B-3386-14H bolt that is not from LFC manufacturing lot 224 in the hole where the second bolt has been removed.
 - f Using a calibrated torque wrench, torque the second bolt to 36 ft-lb (48.8 N•m) dry torque.
 - g Return to the first bolt in this counterweight slug (torqued to initial 30 ft-lb in step 3.A.(4)(b)3c). Using a calibrated torque wrench, torque the bolt to 36 ft-lb (48.8 N•m) dry torque.

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- 4 Using 0.032 inch (0.81 mm) stainless steel safety wire, safety the two B-3386-14H counterweight slug attachment bolts to each other.
- 5 Repeat steps 3.A.(4)(b) through 3.A.(4)(b)4 above for all remaining blades on the propeller.

NOTE: Do **NOT** return affected or removed bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.

- (5) Re-install the spinner dome in accordance with the applicable Hartzell Propeller Owner's Manual.
- (6) Make an entry in the propeller logbook indicating compliance with this Alert Service Bulletin.
- (7) Counterweight slug attachment bolts exhibiting signs of failure as listed in step 3.A.(3)(a)3 may be returned to Hartzell only when specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.
- (8) Replaced bolts not requested for return must be discarded and can not be used for any propeller application.

B. Inventory/Stock Inspection

WARNING: COUNTERWEIGHT SLUG ATTACHMENT BOLTS REPLACED IN ACCORDANCE WITH THIS ALERT SERVICE BULLETIN MUST NOT BE USED IN ANY PROPELLER APPLICATION.

CAUTION: DO NOT USE EXISTING INVENTORY OF B-3386-14H COUNTERWEIGHT SLUG ATTACHMENT BOLTS FROM THE LFC MANUFACTURING LOT 224.

- (1) Inspect each B-3386-14H counterweight slug attachment bolt for the affected LFC manufacturing lot number. See Figure 1.
 - (a) Bolts marked from another source code or lot number other than 224 are not affected by this Alert Service Bulletin.
- (2) Immediately quarantine all affected bolts.

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- (3) Inspect the affected counterweight slug attachment bolts for the following signs of failure:
 - (a) An obviously bent shaft.
 - (b) Any obvious cracking.
 - (c) The head of the bolt is separated from the shaft.
- (4) Contact Hartzell Product Support to report bolts which show any of the following signs of failure; an obviously bent shaft, any obvious cracking, or the head is separated from the shaft.

Hartzell Propeller

Product Support

Phone: (001) 937.778.4379 option 3

Fax: (001) 937.778.4391

E-mail: techsupport@hartzellprop.com

NOTE: Do **NOT** return affected bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.

- (5) If affected bolts are identified in existing stock, complete the compliance form in the Appendix of this Alert Service Bulletin and send it to Hartzell Propeller.

Hartzell Propeller Inc

Attn: Alert Service Bulletin 313 Coordinator

One Propeller Place

Piqua, Ohio 45356

E-mail: techsupport@hartzellprop.com or warranty@hartzellprop.com

Fax: (001) 937.778.4391

- (a) Replacement parts will be shipped upon receipt of the Alert Service Bulletin Compliance Form.

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- (6) Counterweight slug attachment bolts exhibiting signs of failure as listed in step 3.A.(3)(a)3 may be returned to Hartzell only when specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin. Replaced bolts not requested for return must be discarded and can not be used for any propeller application.

NOTE: Hartzell Product Support MAY request the return of any counterweight slug attachment bolts affected by or replaced in accordance with this Alert Service Bulletin. Do **NOT** return affected bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) in accordance with the Appendix to this Alert Service Bulletin.

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NOTE: Affected propeller models are installed on, but are not limited to, the following aircraft:

Propeller Model	Aircraft Manufacturer	Aircraft Model
HC-B3TN-5K	AERO COMMANDER	680T, 680V, 681
HC-B3TN-5DL, -5FL, -5NL	AERO COMMANDER	690(A,B,C), 695(A)
HC-A3MVF-7B	AEROSPACE TECHNOLOGIES	N22B, N24A, N22S, N22C
HC-A3VF-7, -7B	AEROSPACE TECHNOLOGIES	N22B, N24A, N22S, N22C
HC-B5MP-3A, -3C	AIR TRACTOR	AT-502A
HC-B5MP-3C	AIR TRACTOR	AT-503, -602
HC-B5MA-3D(T)	AIR TRACTOR	AT-802
HC-B5MP-3F	AIR TRACTOR	AT-802
HC-B5MA-5A	ANTONOV	AN-38
HC-B3TN-5V	AYRES	S-2R
HC-B4TN-5NL, -5PL	AYRES	S-2R(-1340), -G(5,6,10), -R3S, -R1820, -T(6,11,15,34,45,65)
HC-B5MP-3C	AYRES	S-2R(HG)-T65
HC-B3TN-3AE	AYRES	S-2R-T()
HC-B3TN-5K	BAE (JETSTREAM)	137
HC-B4MP-3A	BEECH	1900C
HC-B4MP-3B	BEECH	300, 300LW
HC-B3TF-7A	BEECH	A36, A36TC
HC-B4MP-3C	BEECH	B300, B300C
HC-B4MN-5AL	CASA	C-212-CC, -CF
HC-B3TF-7A	CESSNA	206
HC-B3TF-7	CESSNA	402
HC-B3MN-3	CESSNA	208, 208A, 208B
HC-B3TN-3AEY, -3AF	CESSNA	208, 208A, 208B
HC-B3TF-7A	CESSNA	P210N
HC-B3TN-3AEY	DE HAVILLAND CANADA	DHC-3
HC-B4TN-5NL	DE HAVILLAND CANADA	DHC-3
HC-B5MA-3M	DE HAVILLAND CANADA	DHC-4
HC-B4TN-5ML	DORNIER	DO228-100,-101,-200,-201,-202,-212

**Affected Propeller Models
Table 1**

HARTZELL PROPELLER INC.

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Propeller - Counterweight Slug Bolt Inspection

Propeller Model	Aircraft Manufacturer	Aircraft Model
HC-B4TN-5L	DORNIER	DO228-200,-201,-202,-212
HC-B5MA-3(J,M,C)	DOUGLAS	DC-3C
HC-B5MA-2	EMBRAER	EMB-314
HC-B4TN-5EL, -5HL, -5KL	FAIRCHILD AIRCRAFT	SA226-T(B)
HC-B3TF-7, -7A	FLUG & FAHRZEUGWERKE AG	AS202/32TP
HC-B3TF-7A	FUJI	KM-2D (T-5)
HC-B5MP-5	GRUMMAN	S-2
HC-B5MA-5H	GRUMMAN	S-2F3AT
HC-B3TF-7A	MAULE	M-7-420, MX(T)-7-420
HC-B4TN-5DL, -5GL, -5JL	mitsubishi	MU-2B-25A,-26A,-30,-35A,-36A,-40 (MU-2P),-60 (MU-2N)
HC-B5MP-3(A)	NORD	262 FRAKES
HC-B5MP-3C	NORMAN AEROPLANE	NAC 6-65
HC-B5MP-3D	POLISH AVIATION (MIELEC)	M-28,-28B
HC-B5MP-3G	POLISH AVIATION (MIELEC)	M-28B
HC-B3TN-5U	PZL MIELEC	M18
HC-B4TN-5NL	PZL MIELEC	M18
HC-B5MP-5BL	PZL MIELEC	M18
HC-B5MP-3C	PZL MIELEC	M18, M18A, M18B
HC-B4MN-5B	ROCKWELL	OV-10 (left side)
HC-B4MN-5BL	ROCKWELL	OV-10 (right side)
HC-B5MP-3A	SHORT BROTHERS	SD3-30
HC-B5MP-3C	SHORT BROTHERS	SD3-60-200, SD3-SHERPA-200
HC-B3TF-7A	SIAI MARCHETTI (AerMacchi)	F.260C, D
HC-B3TF-7A	SIAI MARCHETTI (AerMacchi))	SM-1019
HC-B3TF-7A	SIAI MARCHETTI (VulcanAir)	SF600 CANGURO
HC-B5MP-3(F)	THRUSH AIRCRAFT	S-2R-T660
HC-B3TN-5FL, -5NL	TWIN COMMANDER	690A, 690B, 690C
HC-B3TF-7A	VALMET	L-90TP
HC-B3TF-7A	VULCANAIR (PARTENAVIA)	AP68TP-300, -600

Affected Propeller Models

Table 1 (continued)

HARTZELL PROPELLER INC.
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Propeller - Counterweight Slug Bolt Inspection

1. Eligibility

- A. B-3386-14H counterweight slug attachment bolts in Hartzell steel hub turbine propellers marked from LFC manufacturing lot 224.
- B. B-3386-14H counterweight slug attachment bolts in stock at propeller repair and part distribution facilities marked from LFC manufacturing lot 224.

2. Warranty Administration

A. Replacement Bolt Order Administration

- (1) After completion of the visual inspection and if bolts must be replaced in accordance with the Accomplishment Instructions of this Alert Service Bulletin, complete the Alert Service Bulletin Compliance Form in this Appendix and send to Hartzell Propeller.

Hartzell Propeller Inc
Attn: Alert Service Bulletin 313 Coordinator
One Propeller Place
Piqua, Ohio 45356

E-mail: techsupport@hartzellprop.com or warranty@hartzellprop.com
Fax: (001) 937.778.4391

- (2) Upon receipt of the Alert Service Bulletin Compliance Form for affected bolts, the Warranty Administrator will process the order to replace the affected bolts, at no charge, with new bolts from an unaffected lot.
- (3) Affected bolts replaced in accordance with the on-wing inspection in the Accomplishment Instructions of this Alert Service Bulletin and exhibiting signs of failure as listed in step 3.A.(3)(a)3, may be returned to Hartzell only when specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) provided under this Appendix. Replaced bolts not requested for return must be discarded and can not be used for any propeller application.

NOTE: Do **NOT** return affected or removed bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) provided under this Appendix to the Alert Service Bulletin. Additional components may be requested and replaced if failed bolts are present.

Propeller Model: Various Document No. HC-ASB-61-313 Revision: 2

Component Part Number: B-3386-14H Date of Issue: Nov 17/08 Rev. Date: Mar 27/09

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- (4) Affected bolts quarantined from inventory in accordance with the Accomplishment Instructions of this Alert Service Bulletin and exhibiting signs of failure as listed in step 3.A.(3)(a)3, may be returned to Hartzell only when specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) provided under this Appendix. Replaced bolts not requested for return must be discarded and can not be used for any propeller application.

NOTE: Do **NOT** return affected or removed bolts unless specifically requested by Hartzell Product Support through a Return Material Authorization (RMA) provided under this Appendix to the Alert Service Bulletin.

- (5) A copy of the completed Alert Service Bulletin Compliance Form, or the required information, will be faxed or emailed back to the submitting person or facility, as necessary, to provide RMA and Warranty details for further actions.

B. Labor Invoice Administration

- (1) Labor will be allowed under warranty in accordance with the Manpower section of the Alert Service Bulletin for bolts replaced in accordance with the On-Wing Inspection in the Accomplishment Instructions of the Alert Service Bulletin.
- (2) Labor will be allowed at a rate not to exceed \$75.00 USD per man-hour. A maximum of \$150.00 USD may be allowed in accordance with the Manpower section of the Alert Service Bulletin.
- (3) Complete an invoice for labor referencing the same warranty claim number identified on the completed Alert Service Bulletin Compliance Form. Contact Hartzell Product Support for assistance identifying the correct warranty number if needed.

Hartzell Propeller Inc.
Attn: Alert Service Bulletin 313 Coordinator
One Propeller Place
Piqua, Ohio 45356-2634 USA

Phone: (001) 937.778.4379
Fax: (001) 937.778.4391
E-mail: techsupport@hartzellprop.com or warranty@hartzellprop.com

Propeller Model: Various Document No. HC-ASB-61-313 Revision: 2

Component Part Number: B-3386-14H Date of Issue: Nov 17/08 Rev. Date: Mar 27/09

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Compliance Form

Date: _____		Inventory Replacement <input type="checkbox"/>	Assembly/On-Wing <input type="checkbox"/>
Total Number of Affected Bolts (B-3386-14H) to be Replaced: _____			
Number of Failed Bolts By Type: Bent _____ Cracked _____ Separated _____			
<u>For Assembly/On-Wing Replacements Only</u>			
Propeller Model Number: _____			
Propeller or Hub Serial Number: _____		Aircraft Model: _____	
TSN: _____	TSO: _____	Date of Last Overhaul: _____	
<u>OWNER INFORMATION</u>			
Name: _____		Phone: _____	
Address: _____		E-mail: _____	
City: _____		Fax: _____	
State / Zip: _____		Country: _____	
<u>A&P MECHANIC or PROPELLER REPAIR FACILITY INFORMATION</u>			
Company: _____		Contact: _____	
Address 1: _____		Phone: _____	
Address 2: _____		E-mail: _____	
City: _____		Fax: _____	
State / Zip: _____		Country: _____	
DO NOT WRITE BELOW THIS LINE - FOR HARTZELL PROPELLER INC. USE ONLY			
Warranty Claim Number: _____		Authorized By: _____	
RMA Number: _____		Return Via: _____	
RMA Quantity: _____		Account: _____	
Upon Request From Hartzell Product Support, Return Failed Bolts to:			
Hartzell Service Center 5465 West State Route 185 Piqua, Ohio 45356 USA RMA# (use number provided above)			

Propeller Model: Various Document No. HC-ASB-61-313 Revision: 2

Component Part Number: B-3386-14H Date of Issue: Nov 17/08 Rev. Date: Mar 27/09

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Propeller Model: Various Document No. HC-ASB-61-313 Revision: 2

Component Part Number: B-3386-14H Date of Issue: Nov 17/08 Rev. Date: Mar 27/09
