
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Propellers - Variable Pitch - Hartzell**AD/PHZL/92****Propeller Blade Counterweight
Slug Attach Bolts****8/2009**

Applicability: Hartzell Propeller Inc. steel hub turbine propellers listed in Table 1 of this AD, with any counterweight slug attachment bolts, part number (P/N) B-3386-14H, LFC manufacturing lot 224, installed.

Note 1: These propellers are installed on, but not limited to, the aeroplanes listed in Table 1 of this AD.

Table 1

Propeller Model	Aeroplane Manufacturer	Aeroplane Model
HC-B3TN-5K	AERO COMMANDER	680T, 680V, 681
HC-B3TN-5DL, -5FL, -5NL	AERO COMMANDER	690(A, B, C), 695A
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

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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 (JETSTEAM)	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
HC-B4TN-5L	DORNIER	DO228-200, -201, -202, -212

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AD/PHZL/92 (continued)

HC-B5MA-3(J, M, C)	DOUGLAS	DC-3C
HC-B5MA-2	EMBRAER	EMB-314
HC-B4TN-5EL, -5HL, -5KL	FAIRCHILD AIRCRAFT	SA-226T(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-3BTF-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 FRANKS
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)

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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	VUCANAIR (PARTENAVIA)	AP68TP-300, -600

Requirement: Identify and remove all propeller blade counterweight slug bolts, P/N B-3386-14H, LFC manufacturing lot 224, from service, and install serviceable bolts.

Use paragraphs 3.A.(1) through 3.A.(4)(b)5 of the Accomplishment Instructions of Hartzell Propeller Inc. ASB No. HC- ASB-61-313, Revision 2, dated 27 March 2009, to do the identification, removals from service, and installations.

For the purpose of this AD, a serviceable propeller blade counterweight slug bolt is a P/N B-3386-14H bolt with an LFC manufacturing lot other than lot 224.

Note 2: FAA AD 2009-10-14 Amdt 39-15910 dated 8 May 2009 refers.

Compliance: Within 50 flight hours after the effective date of this AD, unless the actions have already been done.

This Airworthiness Directive becomes effective on 30 July 2009.

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AD/PHZL/92 (continued)

Background: This AD results from two reports of failure of the bolts that attach the propeller blade counterweight slug, and separation of the counterweight slug which led to propeller vibration and damage to the propeller spinner. Investigation by Hartzell Propeller Inc. revealed that the bolts failed due to a bolt manufacturing defect. The issuing of this AD is intended to prevent separation of the propeller blade counterweight slug, which could lead to injury and damage to the aeroplane.

A handwritten signature in black ink, appearing to read 'James Coyne', with a stylized flourish at the end.

James Coyne
Delegate of the Civil Aviation Safety Authority

16 June 2009