

## AIRWORTHINESS DIRECTIVE

Aircraft Certification Service

Washington, DC  
U.S. Department  
of Transportation

**Federal Aviation  
Administration**

## CORRECTION

**2001-07-03 Hartzell Propeller Inc.:** Amendment 39-12168. Docket No. 99-NE-21-AD:

### Applicability

This AD is applicable to all Hartzell Propeller Inc. Y-shank series propellers identified by hub serial numbers (SN's) in Table 1 of this airworthiness directive (AD). The Y-shank series propellers has the letter Y in the model number which can be denoted in general as ( )HC-( )( )Y( )-( ).

**Table 1 Hub Serial Numbers**

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121, 251, 715, 1111, 1387, 1661, 2383, 2479, 2883, 3059, 3343, 3479, 3717, 3890, 3990, 4690, and 5523

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AM911

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AN1309, AN2773, AN2826, AN2828, and AN3883

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AU42, AU696, AU814, AU992, AU1226, AU1290, AU1416, AU2641, AU2643, AU2658, AU2699, AU2847, AU7186E, AU8364A, AU8418A and AU12997

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BP344, BP715, BP1276, BP1772, BP2121, BP3811, BP3763, BP3978, BP5674, BP6126, BP6194, BP7141, BP7297, BP7513, BP8199, BP8708, and BP9586

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CH6190 & CH19251

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CJ52, CJ54, CJ419, and CJ649

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DA1404 and DA1418

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DG101

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DJ4431, DJ4449, DJ9521A, DJ10407A, DJ11249A, DJ11880A, and DJ11881A

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DN3775

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DV11 and DV12

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FH307

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P560

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**Note 1:** This AD applies to each propeller identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For propellers that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

**Note 2:** This AD is limited to propellers returned to service from November 1996 to October 1998 by Brothers Aero Service Company, Inc. (BASCO), Air Agency Certificate Number B4TR903J, revoked

by Amended Order of Revocation, dated May 12, 1999.

### **Compliance**

Compliance with this AD is required as indicated, unless accomplished previously. To prevent propeller failure of the propellers returned to service by BASCO, and possible loss of airplane control, accomplish the following:

### **Required Actions**

- (a) Within 10 hours time-in-service after the effective date of this AD, accomplish the following:
  - (1) Disassemble,
  - (2) Clean,
  - (3) Inspect for the following:
    - (i) Nicks,
    - (ii) Scratches,
    - (iii) Failure of blades to meet minimum dimensions,
    - (iv) Alodine or paint or both applied over corrosion,
    - (v) Lack of chemical conversion coating applied beneath the de-ice boots,
    - (vi) Bolts incorrectly torqued,
    - (vii) Incorrect parts,
    - (viii) Incorrect installation of parts, and
    - (ix) Reinstallation of parts intended for one-time use.
  - (4) Repair and replace with serviceable parts, as necessary,
  - (5) Perform a cold roll operation on the blade shanks,
  - (6) Reassemble and test.

**Note 3:** Information on performing an overhaul of the affected propellers may be found in the applicable Hartzell Propeller Inc. Overhaul Manual.

**Note 4:** For a current list of propeller overhaul facilities approved to perform the blade shank cold rolling procedure contact Hartzell Product Support, telephone: (937) 778-4379. Not all propeller repair facilities have the equipment to properly perform a cold roll of the blade shanks.

### **Alternative Methods of Compliance**

(c) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Chicago Aircraft Certification Office. Operators shall submit their request through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Chicago Aircraft Certification Office.

**Note 5:** Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Chicago Aircraft Certification Office.

### **Special Flight Permits**

(d) Special flight permits may be issued in accordance with §§ 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be accomplished.

### **Effective Date of this AD**

(e) This amendment becomes effective on June 4, 2001.

**FOR FURTHER INFORMATION CONTACT:** Tomaso DiPaolo, Aerospace Engineer, Chicago Aircraft Certification Office, FAA, Small Airplane Directorate, 2300 East Devon Avenue, Des Plaines, IL 60018; telephone (847) 294-7031, fax (847) 294-7834.  
Issued in Burlington, Massachusetts, on March 27, 2001.  
Diane S. Romanosky, Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.