

AIRWORTHINESS DIRECTIVE

REGULATORY SUPPORT DIVISION
P.O. BOX 26460

OKLAHOMA CITY, OKLAHOMA 73125-0460

U.S. Department
of Transportation
**Federal Aviation
Administration**

The following Airworthiness Directive issued by the Federal Aviation Administration in accordance with the provisions of Title 14 of the Code of Federal Regulations (14 CFR) part 39, applies to an aircraft model of which our records indicate you may be the registered owner. Airworthiness Directives affect aviation safety and are regulations which require immediate attention. You are cautioned that no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of the Airworthiness Directive (reference 14 CFR part 39, subpart 39.3).

99-25-05 Hartzell Propeller, Inc.: Amendment 39-11448; Docket 99-ANE-18-AD. Issued November 24, 1999.

Applicability: Hartzell Propeller, Inc., Model HD-E6C-3() series propellers with propeller hub part number D-5108-1, installed on but not limited to Fairchild Dornier 328-110 and 328-120 series airplanes.

Note 1: This airworthiness directive (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 (e) 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.

Compliance: Required as indicated, unless accomplished previously.

To prevent propeller blade loss due to cracks in the propeller hub that could result in loss of control and possible damage to the airplane, accomplish the following:

Initial and Repetitive Inspection Requirements

(a) Perform initial and repetitive visual inspections of the Hartzell propeller hub part number (P/N) D-5108-1 for cracks and grease leaks in accordance with paragraph 3.A. of the Accomplishment Instructions of Hartzell Propeller, Inc. ASB No. HD-ASB-61-021 Revision 1, dated March 18, 1999, as follows:

- (1) Within 12 hours time-in-service (TIS) after the effective date of this AD, perform an initial visual inspection.
- (2) Thereafter, perform a daily visual inspection. However, for airplanes that are not operated on a daily basis, inspect affected propeller hubs every operational day.

Confirmation of Crack

(b) If a crack is confirmed, before further flight, remove cracked hub from service and replace with a serviceable part in accordance with paragraph 3.B. of the Accomplishment Instructions of ASB No. HD-ASB-61-021, revision 1, dated March 18, 1999.

Terminating Action

(c) Replace propeller hub P/N D-5108-1 with propeller hub P/N D-5108-5 within 600 hours TIS or three months after the effective date of this AD, whichever occurs first.

(d) Installation of propeller hub, P/N D-5108-5, constitutes terminating action for the inspection requirements of this AD.

Alternative Methods of Compliance

(e) 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 (ACO). Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, ACO.

Note 2: Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Chicago ACO.

Special Flight Permits

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

Incorporation by Reference

(g) The actions required by this AD shall be done in accordance with Hartzell Propeller, Inc. ASB No. HD-ASB-61-021, Revision 1, dated March 18, 1999. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Hartzell Propeller, Inc. , Technical Publications Department, One Propeller Place, Piqua, OH 45356; telephone (937) 778-4200, FAX (937) 778-4365. Copies may be inspected at the FAA, New England Region, Office of the Regional Counsel, 12 New England Executive Park, Burlington, MA; or at the Office of the Federal Register, 800 North Capitol Street NW, Suite 700, Washington, DC.

(h) This amendment becomes effective December 20, 1999.

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.