

### **95-03-03**

Amendment 39-9140.

Docket 95- ANE-06.

Applicability: Hartzell Propeller Inc. Model HC-B4TN- 3/T10173F(N)(B,K)-12.5 and HC-B4TN-3A/T10173F(N)(B,K)-12.5 propellers installed on Beech A100 and A100A aircraft.

**NOTE:** The parentheses indicate the presence or absence of an additional letter(s) which vary the basic propeller blade model designation. This airworthiness directive (AD) still applies regardless of whether these letters are present or absent on the propeller blade model designation.

Compliance: Required as indicated, unless accomplished previously.

To prevent initiation of fatigue cracks in the propeller hub arm bore and subsequent progression to failure, with departure of the hub arm and blade, that may result in loss of aircraft control, accomplish the following:

- (a) For affected propellers with Time-Since-New (TSN) greater than or equal to 3,000 hours or TSN unknown on the effective date of this AD, within the next 150 hours Time-In-Service (TIS) or the next 12 calendar months after the effective date of this AD, whichever occurs first, accomplish paragraphs (a)(1), (a)(2), and either (a)(3) or (a)(4) of this AD:
  - (1) Remove affected propeller hub and blade assemblies from the aircraft for inspection, and accomplish specified rework or retirement, if necessary, in accordance with Hartzell Propeller Inc. Alert Service Bulletin (ASB) No. A196A, dated December 27, 1994.
  - (2) Replace propeller blade assemblies that have been rejected or retired per paragraph (a)(1) of this AD with propeller blade assemblies inspected and reworked, if necessary, per paragraph (a)(1) of this AD or new blade assemblies. Thereafter, at intervals of 3,000 hours TIS or 60 calendar months, whichever occurs first, inspect, and rework or retire, if necessary, the blade assemblies in accordance with Hartzell Propeller Inc. ASB No. A196A, dated December 27, 1994.
  - (3) Replace propeller hub assemblies that have been rejected or retired per paragraph (a)(1) of this AD with propeller hub assemblies that have had the hub arm bores inspected (and reworked as necessary), pilot tubes replaced, and have a metal impression stamp at the end of the hub serial number with suffix letter "M", followed by a number (1, 2, 3, etc.) to indicate the number of repetitive inspections performed in accordance with Hartzell ASB No. A196A, dated December 27, 1994. Thereafter, at intervals of 600 hours TIS or 60 calendar months, whichever occurs first, inspect, and rework or retire, as necessary, the hub assemblies in accordance with Hartzell Propeller Inc. ASB No. A196A, dated December 27, 1994.
  - (4) Replace propeller hub unit Part Number (P/N) 840-139 or P/N 840-89, unless already accomplished, with a hub that has compressive rolled internal bearing bores, which is identified with the addition of a third letter "A" in the hub serial number prefix (e.g. "CDA1234"). Thereafter, at intervals of 3,000 hours TIS or 60 calendar months, whichever occurs first, inspect, and rework or retire, as necessary, the hub assemblies in accordance with Hartzell Propeller Inc. ASB No. A196A, dated December 27, 1994.
- (b) For affected propellers with less than 3,000 hours TSN on the effective date of this AD, within the next 300 hours TIS, or prior to the accumulation of 3,150 hours TSN, or within the next 12 calendar months after the effective date of this AD, whichever occurs first, accomplish paragraphs (a)(1), (a)(2), and either (a)(3) or (a)(4) of this AD.
- (c) Any blade repairs made after the effective date of this AD shall be accomplished in accordance with the procedures specified in Hartzell ASB No. A196A, dated December 27, 1994.

- (d) For propellers that experience a blade strike, as defined in paragraph (f) of this AD, after the effective date of this AD, prior to further flight, accomplish paragraphs (a)(1), (a)(2), and either (a)(3) or (a)(4) of this AD.
- (e) For propellers that have experienced a blade strike, as defined in paragraph (f) of this AD, prior to the effective date of this AD, within the next 100 hours TIS after the effective date of this AD, accomplish paragraphs (a)(1), (a)(2), and either (a)(3) or (a)(4) of this AD.
- (f) A blade strike is defined as a propeller having any blade(s) bent beyond the repair limits specified in Hartzell Propeller Inc. Standard Practices Manual 61-01-02, Revision 1, Pages 1104-1105, dated June 1994.
- (g) 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. The request should be forwarded through an appropriate FAA Maintenance Inspector, who may add comments and then send it to the Manager, Chicago Aircraft Certification Office.

**NOTE:** 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.

- (h) Except when propellers have experienced a blade strike, 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.
- (i) The inspections and rework shall be accomplished in accordance with the following service documents:

<b>Document No.</b>	<b>Pages</b>	<b>Date</b>
Hartzell Propeller Inc., <b>ASB No. A196A</b> Total pages: 5.	1-5	December 27, 1994
Hartzell Propeller Standard Practices Manual 61-01-02, Revision 1 Total pages: 2.	1104-1105	June 1994

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., One Propeller Place, Piqua, OH 45356-2634; telephone (513) 778-4200, fax (513) 778-4391. Copies may be inspected at the FAA, New England Region, Office of the Assistant Chief 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.

- (j) This amendment becomes effective on March 17, 1995.