
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 39.1 (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/78

Anti-Ice Boots

7/2003

Applicability: Hartzell Propeller Inc. model HC-C2Y(K,R)-1BF/F8477-4 propellers with TKS (Aircraft De-icing) Ltd. anti-ice boots that were installed by SOCATA-Groupe AEROSPATIALE, the aircraft manufacturer, using TKS Ltd. Procedure P232, Specification for the Attachment of Propeller Overshoes.

Note 1: These propellers are installed on, but not limited to American Champion 8GCBC, Cessna 170 series, 172 series, 175 series, Piper PA-18 series, Sky International Inc. (Husky) A-1 (previous owners were Christen Industries; Aviat, Inc.; White International, LTD.), and SOCATA-Groupe AEROSPATIALE TB-20 and TB-21 aeroplanes.

Requirement: For propellers that have been overhauled after the installation of TKS (Aircraft De-icing) Ltd. Anti-ice boots, and have had the anti-ice boots re-installed using Hartzell Manual 133C (ATA 61-13-33) "Aluminum Blade Overhaul", AS&T Procedure 4700INS, or other approved procedures (excluding TKS Procedure P232) no further action is required. For propellers that have had the anti-ice boots installed using the TKS Procedure P232, but have not had anti-ice boots re-installed using Hartzell Manual 133C (ATA 61-13-33) "Aluminum Blade Overhaul", AS&T Procedure 4700INS, or other approved procedures (excluding TKS Procedure P232), remove anti-ice boots, inspect and rework anti-ice boot areas of propeller blades, and install new anti-ice boots in accordance with paragraph 3 of the Accomplishment Instructions of Hartzell Propeller Inc. Alert Service Bulletin (ASB) HC-ASB-61-251.

Note 2: FAA AD 2003-06-02 Amdt 39-13089 refers.

Compliance: **For propellers with less than 500 hours time-in-service (TIS) and less than 3 years time since new (TSN);** within 200 hours TIS from the effective date of this Directive, not exceeding 600 hours TSN, or prior to 4 years TSN whichever occurs first.

For propellers with 500 hours or more hours TIS, or 3 years or more TSN but less than 6 years TSN; within 100 hours TIS, or 1 year from the effective date of this Directive.

For propellers with 6 years or more TSN; within 50 hours TIS, or within 6 months from the effective date of this Directive, whichever comes first.

This Airworthiness Directive becomes effective on 10 July 2003.

Propellers - Variable Pitch - Hartzell

AD/PHZL/78 (continued)

Background: TKS Procedure P232 details a procedure for fitment of anti-ice boots. This process could lead to corrosion and failure of the propeller blade and subsequent loss of control of the aeroplane.



Jim Coyne
Delegate of the Civil Aviation Safety Authority

28 May 2003