

SUPPLEMENTAL TYPE CERTIFICATE SA03078CH

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

MODELS

HC-(C, I, F)3YR-1(A)RF/F7693F (B, K) +2

OR

HC-(C, I, F)3YR-1(A)RF/F8068 (B, K)

ON

CESSNA MODEL'S

**R182, T182, TR182, T182T, 182S, 182T & FR182
SERIES AIRCRAFT**

LOG OF REVISIONS

Rev.	Rev. Date	Reviewed	Affected Pages	Description of Revision
IR	02/14/2012	<i>BWM</i>	All	Initial Issue
1	10/26/2012	<i>MCS</i>	All pages re-issued	Added prop de-ice incorporating "B" type boots, pages 1,2,3. Corrected manual title, pages 3, 5.

Note: Changes made on latest revision are denoted by a bar in the left margin.

PROPRIETARY INFORMATION

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1. INTRODUCTION

This document outlines the compliance with 14 CFR 23.1529 "Instructions for Continued Airworthiness for Hartzell Propeller models installed on the Cessna Aircraft models R182, T182, TR182, T182T, 182S, 182T, and FR182 series listed in Hartzell Propeller's Installation Instructions H1010-3.

Modification of the Cessna Aircraft with this Supplemental Type Certificate obligates the aircraft operator to include the maintenance information provided by this document in the Operator's Aircraft Maintenance Manual and the Operator's Aircraft Scheduled Maintenance Program.

Referenced Documents:

Author	Document Number	Document Title
Hartzell Propeller	115N	Propeller Owner's Manual
Hartzell Propeller	Service Letter 61	Service Letter
Hartzell Propeller	See Notes	Service Letters

Note: Owner and operators of Hartzell Propeller should contact the Hartzell Propeller dealer, distributor or authorized Hartzell Propeller Service Shop to obtain the latest information pertaining to Hartzell products.

The list of valid Hartzell Propeller manuals, service bulletins, AD's and their latest revision can be downloaded from the homepage of Hartzell Propeller (http://www.hartzellprop.com/product_support/index_support.htm). hardcopies can also be obtaining from Hartzell Propeller :

Hartzell Propeller Inc.
One Propeller Place
Piqua, Ohio 45356
Telephone
(937) 778-4200
Fax
(937) 778-4365

2. DESCRIPTION

The modification removes the existing McCauley 3 bladed metal constant speed propeller and spinner assembly replacing it with Hartzell Propeller metal propellers HC-(C, I, F)3YR-1(A)RF/F7693(B,K)+2 or HC-(C, I, F)3YR-1(A)RF/F8068(B,K) constant speed propeller.

3. CONTROL, OPERATION INFORMATION / SPECIAL PROCEDURES

The Hartzell propellers are a constant speed, variable pitch propeller, controlled by a governor for constant RPM settings at the pilot's discretion.

4. SERVICING INFORMATION

Hartzell Propeller publications contain the information necessary to operate, maintain, and perform scheduled maintenance. See section 4.1, page 4

4.1 Hartzell Publications

(1) In addition to this manual, the propeller overhaul manual and one or more of the following publications are required for information regarding specific recommendations and procedures to maintain propeller assemblies.

Manual No.	ATA No.	Title
Manual 115N	61-00-15	Propeller Owner's Manual
Manual 126	61-00-26	Set of Active SB, SA, SL, SI
Manual 127	61-16-27	Hartzell Spinner Assembly Maintenance Manual
Manual 133C	61-13-33	Hartzell Aluminum Blade Manual
Manual 165	61-00-65	Hartzell Illustrated Tool and Equipment Manual
Manual 180	30-61-80	Propeller Ice Protection System Manual
Manual 181	30-60-81	Propeller Ice Protection Component Maintenance Manual
Manual 182	61-12-82	Propeller Electrical De-Ice Boot Removal and Installation Manual
Manual 183	61-12-83	Propeller Anti-Icing Boot Removal and Installation Manual
Manual 202A	61-01-02	Hartzell Standard Practices - Volumes 1 through 11

(2) For Hartzell service literature and revisions, contact:

Hartzell Propeller Inc.
One Propeller Place
Piqua, Ohio 45356
Telephone
(937) 778-4200
Fax(937) 778-4365

The list of valid Hartzell Propeller manuals, service bulletins, AD's and their latest revision can be downloaded from the homepage of Hartzell Propeller Telephone: (937) 778-4299 Fax: (937) 778-4391 ([www. manuals@hartzellprop.com](http://www.manuals@hartzellprop.com)) or (Email: manuals@hartzellprop.com).

5. MAINTENANCE INSTRUCTIONS

All required maintenance, inspections, time intervals and procedures are provided in Hartzell Propeller Operation & Installation Manual 115N (metal Prop) or later revisions provided with each propeller.

Field repair of small nicks and scratches may be performed by qualified personnel in accordance with FAA AC 43-13-1() as well as procedures specified in Hartzell Propeller Operation & Installation Manual 115N, page 6-21 "Blade Repair". Hartzell Manual 115N and or later revision provided with each propeller as delivered from the factory.

6. REMOVAL AND REPLACEMENT INFORMATION

The STC propeller should be installed in accordance with STC installation instruction H1010-3 and Hartzell Propeller Operation & Installation Manual 115N, Page 3-1 through 3-53, provided with the propeller.

Flight test aircraft with the new propeller, all engine parameter should coincide with those of H1010-8 Flight Manual Supplement.

7. DIAGRAMS

Refer to Hartzell Propeller Owner's Manual 115N.

8. LIST OF SPECIAL TOOLS

Refer to Hartzell Propeller Owner's Manual 115N, page 3-5

9. ADDITIONAL INFORMATION FOR COMMUTER CATEGORY AIRCRAFT

Not Applicable.

10. RECOMMENDED OVERHAUL PERIODS

Recommended Time Between Overhaul (TBO) limits for the STC propeller are provided in Hartzell Service Letter HC-SL-61-61Y Rev. 3, dated Nov. 13, 2009 or later approved.

11. Airworthiness Limitations

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under Parts 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no mandatory replacement times for any components.

12. REVISIONS

Any revisions to this document will be logged in the Log of Revisions sheet and a copy of the revised document should be distributed as required.

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