

# **SUPPLEMENTAL TYPE CERTIFICATE SA02821CH**

## **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

### ***INSTALLION OF THE HARTZELL PROPELLERS MODELS***

**(P)HC-()3YF-1RF/F8068(B,K)  
(P)HC-()3YF-1RF/F7693DF(B,K)(+2)**

**ON**

***Cessna Aircraft Models  
180, 182, 185, 206, 207 & 210  
SERIES AIRCRAFT***

FAA Approved: \_\_\_\_\_

Date: \_\_\_\_\_

**LOG OF REVISIONS**

Rev	Rev. Date	Reviewed	Affected Pages	Description of Revision	FAA Approved
IR	10/28/08	<i>BWM</i>	All	Initial Issue (Draft).	
<b>A</b>	7/6/09	<i>BWM</i>	All	Added STC number, updated for final release	

**PROPRIETARY INFORMATION**

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**1. INTRODUCTION**

This document outlines the compliance with FAR 23.1529 "Instructions for Continued Airworthiness for Hartzell Propeller models installed on the Cessna Aircraft models 180, 182, 185, 206, 207 & 210 series listed in Hartzell Propeller Installation Instructions H0801-3.

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	H0801-8	FAA approved Airplane Flight Manual Supplement
Hartzell Propeller	H0801-3	Master drawing Installation Instruction
Hartzell Propeller	H0801-9	Instruction For Continued Airworthiness
Hartzell Propeller	115N (Metal Prop's)	Operation And Installation Manual
Hartzell Propeller	103576	Ice Protection Installation Drawing
Hartzell Propeller	103307 & 103308	Airframe De-ice Kit
Hartzell Propeller	Service Letter 61	Service Letter
Hartzell Propeller	See Note	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](http://www.hartzellprop.com/product_support/index_support.htm)) Hardcopies can also be obtaining from Hartzell Propeller for latest service information.

Hartzell Propeller Inc.  
One Propeller Place  
Piqua, Ohio 45356  
**Telephone**  
(937) 778-4200  
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**2. DESCRIPTION**

The modification removes the existing McCauley or Hartzell 2 & 3 bladed metal constant speed propeller and spinner assembly replacing it with Hartzell Propeller metal propellers (P)HC-()3YF-1RF/F8068(B,K)(-2), or (P)HC-()3YF-1RF/F7693DF(B,K)+2 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.

Repairs may be made to the propeller as described in Hartzell Propeller Operation & Installation Manual 115N or later approved revision.

**4. SERVICING INFORMATION**

Hartzell Propeller publications contain the information necessary to operate, maintain, and perform scheduled maintenance.

**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 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 135F	61-13-35	Hartzell Composite Blade Maintenance Manual
Manual 148	61-16-48	Hartzell Composite Spinner Assembly Maintenance 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](mailto: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 provided with each propeller.

**6. REMOVAL AND REPLACEMENT INFORMATION**

The STC propeller should be installed in accordance with STC installation instruction H0801-3 and Hartzell Propeller Operation & Installation Manual 115N provided with the propeller.

Engine set-up in accordance with TCM Service Instruction SID97-3C or later approved revision.

Flight test aircraft with the new propeller, all engine parameter should coincide with those of H0801-8 Flight Manual Supplement.

**7. DIAGRAMS**

Refer to Hartzell Propeller Operation & Installation 115N.

**8. LIST OF SPECIAL TOOLS**

Refer to Hartzell Propeller Operation & Installation Manual.

**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 61.

## **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.

**END**