

**Minnis Aviation LLC**  
9291 Airport Road  
Lakeview, MI 38850

M0601-9  
Revision: A  
Date: 04/28/2013

**STC**  
**SA02482CH**

**INSTRUCTIONS**  
**FOR CONTINUED AIRWORTHINESS**

**MOONEY AIRCRAFT M20R, M20S &**  
**M20TN**  
**INSTALLATION OF HARTZELL**  
**PROPELLER**  
**PHC-J3YF-1N/N7605(B)-2**

FAA ACCEPTED: June 7, 2013

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

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## LOG OF REVISIONS

Revision Number	Revision Date	Reviewed	Affected Pages	Description of Revision	FAA Accepted
IR	10/19/07	<i>BWM</i>	6	Initial Issue	
A	04/28/13	<i>BWM</i>	All	Name and Address change	

### PROPRIETARY INFORMATION

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## 1. INTRODUCTION

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This document outlines the compliance with FAR 23.1529 "Instructions for Continued Airworthiness" for Minnis Aviation LLC Hartzell Propeller model PHC-J3YF-1N/N7605(B)-2 installed on the Mooney Aircraft M20R, S & TN.

Modification of the Mooney Aircraft Model M20R, S & TN 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
Minnis Aviation LLC	M0601-8	FAA approved Airplane Flight Manual Supplement
Minnis Aviation LLC	M0601-3	Master drawing Installation Instruction
Minnis Aviation LLC	M0601-9	Instruction For Continued Airworthiness
Hartzell Propeller	145	Operation And Installation Manual
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 or contact Midwest M20 Sales & Service for latest service information

## 2. DESCRIPTION

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The modification removes the existing McCauley or Hartzell 2 & 3 bladed metal constant speed propeller and spinner assembly replacing it with Hartzell propeller PHC-J3YF-1RF/F7693DF (B)-2 composite constant speed propeller and spinner A-2295-10 (P). The governor will be retained and adjusted and or reworked as required per the Installation Instruction M0601-3.

### **3. CONTROL, OPERATION INFORMATION / SPECIAL PROCEDURES**

The Hartzell PHC-J3YF-1RF/F7693(B)-2 propeller is a constant speed, variable pitch propeller, controlled by a governor for constant RPM settings at the pilot's discretion. The propeller diameter is 76 ". Repairs may be made to the propeller as described in Hartzell Propeller Operation & Installation Manual 145.

### **4. SERVICING INFORMATION**

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

Hartzell Propeller Inc.  
One Propeller Place  
Piqua, Ohio 45356

Or

Minnis Aviation LLC  
9291 Airport Road  
Lakeview , MI 38850

**Telephone**

(937) 778-4200

**Telephone**

(678) 398-9781

**Fax**(937) 778-4365

E-Mail [Minnisaviation@comcast.net](mailto:Minnisaviation@comcast.net)

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 145, rev. 10 dated Nov. 2003 (or later rev.) 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 145, rev. 4 dated Dec. 2006 (or later rev.) provided with each propeller.

### **6. REMOVAL AND REPLACEMENT INFORMATION**

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The STC propeller should be installed in accordance with STC installation instruction M0601-3 and Hartzell Propeller Operation & Installation Manual 145, rev. 4 dated Dec. 2006 (or later rev.) provided with the STC and propeller.

Engine set-up in accordance with CMI Service Instruction SID97-3C  
Flight test aircraft with the new propeller, all engine parameter should coincide with those of M0601-8 Flight Manual Supplement.

## **7. DIAGRAMS**

Refer to Hartzell Propeller Operation & Installation Manual 145, rev. 4 dated Dec. 2006 (or later rev.)

## **8. LIST OF SPECIAL TOOLS**

Refer to Hartzell Propeller Operation & Installation Manual 145, rev. 4 dated Dec. 2006 (or later rev.)

## **9. ADDITIONAL INFORMATION FOR COMMUTER CATEGORY AIRCRAFT**

Not Applicable.

## **10. RECOMMENDED OVERHAUL PERIODS**

Recommended Time Between Overhaul (TBO) limits for the STC propeller are also 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**