

# **SUPPLEMENTAL TYPE CERTIFICATE**

## **SA11888CH**

### **INSTRUCTIONS**

### **FOR CONTINUED AIRWORTHINESS**

#### **INSTALLATION OF THE**

#### **HARTZELL PROPELLERS**

#### **MODEL**

#### **2C1-R419A1/75C(S)08**

#### **ON**

#### **MOONEY INTERNATIONAL CORPORATION**

#### **MODELS M20A,B,C,D,E,F,G & J**

#### **AIRCRAFT**

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

**Hartzell Propeller LLC**

One Propeller Place  
Piqua, OH 45356

Report: M2023-05  
Revision: A  
Date: 25 Jan. 2025

**LOG OF REVISIONS**

Rev.	Rev. Date	Reviewed	Affected Pages	Description of Revision
IR	29 Nov. 2023	<i>BWM</i>	All	Initial FAA submittal
A	9 Sept. 2024	<i>BWM</i>	3 4 4 5	Revised Introduction Deleted Engine set-up 6.1 Renumbered paragraph 6.2 to 6.1, added "for this STC" Section 12 complete rewrite to agree with Referenced Documents and Notes on page 3.

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**1. INTRODUCTION**

This document outlines the compliance with FAR 23.1529 “Instructions for Continued Airworthiness” for Hartzell Propeller model installed on the Mooney Aircraft model M20A-G & J.

Modification of the Mooney 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:**

<b>Author</b>	<b>Document Number</b>	<b>Document Title</b>
Hartzell Propeller LLC	M2023-03	Installation Instruction
Hartzell Propeller LLC	M2023-05	Instruction for Continued Airworthiness
Hartzell Propeller LLC	M2023-06	FAA approved Airplane Flight Manual Supplement
Hartzell Propeller LLC	480 Propeller Owner's Manual	Operation and Installation Manual
Hartzell Propeller LLC	Service Letter 61	Propeller TBO
Hartzell Propeller LLC	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>) 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

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### **2. DESCRIPTION**

The modification removes the existing McCauley or current installed constant speed propeller and spinner assembly replacing it with Hartzell Propeller composite propellers 2C1-R419A1/75C(S)08 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 480 rev. 8 or later approved revision.

### **4. SERVICING INFORMATION**

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

#### **4.1 For Hartzell service literature and revisions, contact:**

Hartzell Propeller Inc.  
One Propeller Place  
Piqua, Ohio 45356

**Telephone**

(937) 778-4200

**Fax** (937) 778-4365

4.2 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

### **5. MAINTENANCE INSTRUCTIONS**

All required maintenance, inspections, time intervals and procedures are provided in Hartzell Propeller Owner's Manual, 480 rev. 8 or later approved revision. Owner manual is provided with each new propeller or may be downloaded from Hartzell web site, <http://www.hartzellprop.com>

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

The STC propeller should be installed in accordance with STC installation instruction M2023-03 and Hartzell Propeller Owner's Manual provided with the propeller.

6.1 Flight test aircraft with the new propeller, all engine parameter should coincide with those of stated in the aircraft approved flight manual and or approved flight manual supplements for this STC.

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**7. DIAGRAMS**

Refer to Hartzell Propeller Operation & Installation 480.

**8. LIST OF SPECIAL TOOLS**

Refer to Hartzell Illustrated Tool and Equipment Manual 165.

**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. 14 dated 07/07/21 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**

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.

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**END**