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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR
HARTZELL HC-C3YR-1RF/F7282 PROPELLER
ON MOONEY M20C, M20D, M20E, M20F, M20G, and M20J AIRCRAFT**

STC SA4529NM

LOG OF REVISIONS

Revision	Revised Pages	Description of Revision	Date
New	All	Original Release	1/18/10
A	3	Add 103629() composite spinner information	2/10/15

NOTE: All changes are indicated by a black vertical line along the left margin.

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Section 1-3 General Information – Propeller

The Hartzell HC-C3YR-1RF/F7282 propeller for the Mooney M20(C-G,J) is a constant speed, variable pitch propeller, controlled by a governor that is set by the pilot for constant RPM operation.

Additional propeller information can be found in Hartzell Propeller Owner's Manual 115N.

Section 2 – Ground Handling, Service & Inspection

WARNING: DO NOT use a “yoke jack” under the propeller to jack or raise the aircraft nose.

Airworthiness Limitations

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

There are no life-limited components used in the STC installation.

Section 2-37 – Propeller Inspection

All required maintenance, troubleshooting, inspections, time intervals and procedures are provided in Hartzell Propeller Owner's Manual 115N that is provided with each propeller. Recommended Time-Between-Overhaul (TBO) limits for the STC propeller are also provided in Hartzell Service Letter 61.

The propeller diameter is 74”. 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 Owner's Manual 115N. Propeller overhaul must be accomplished by an approved Propeller Repair Station.

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Section 3-5 – Propeller Installation & Removal

Refer to Hartzell Propeller Owner's Manual 115N for propeller installation and removal procedures. Reference procedures for "K" and "R" flange propellers.

Spinner:

This STC utilizes either an aluminum spinner assembly model 835-47() or a hybrid aluminum-composite spinner, model number 103629().

The hybrid spinner uses an aluminum aft adapter ring that attaches to the engine ring gear and a lightweight, composite spinner dome. The composite spinner dome is supported by a slip-fit, composite forward bulkhead that engages the propeller cylinder.

A single row of screws attaches all of the dome types to the adapter ring, while a row of bolts attaches the adapter ring to the engine ring gear for all of the spinner assemblies.

Refer to Hartzell Manual 127 for the maintenance requirements and procedures of the aluminum spinner assemblies or Manual 148 for maintenance requirements and procedures of the hybrid composite spinner.

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