

INSTALLATION INSTRUCTIONS INST\_011810


STC SA4529NM

INSTALLATION OF A HARTZELL HC-C3YR-1RF/F7282 PROPELLER  
ON MOONEY M20C, M20D, M20E, M20F, M20G, AND M20J AIRCRAFT

LOG OF REVISIONS

Revision	Revised Pages	Description of Revision	Date
IR	---	Original Release	1/18/10
A	2	Add 103629( ) composite spinner option Added statements, "Follow instructions for..." for either spinner mounting scheme.	2/10/15

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

FAA -Approved:   
Brian E. Meyer  
Hartzell STC ODA administrator  
STC ODA-100082-CE

DATE: 9/21/15

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**NOTES:**      1) M20D models: Limited to aircraft with retractable landing gear and constant speed propellers

2) This STC is compatible with the following Power Flow Systems, Inc STCs for tuned exhaust systems:

Mooney M20C, M20D, M20G:      STC SA02549AT

Mooney M20E, M20F, and M20J:      STC SA02871AT

1. Remove original propeller and spinner.
2. Install new propeller and spinner in accordance with Hartzell Owner's Manual number 115( ).
  - A. M20C, D, E, F, and G model - Spinner Assembly 835-47(P) or 103629( ) spinner assembly. Follow instructions for "spinner adaptor to starter ring gear installation"
  - B. M20J model - spinner assembly 2295-1(P) and 2476-7 mounting kit, or, spinner assembly 2295-4(P) and 2476-7 mounting kit; Follow instructions for "metal spinner bulkhead on the propeller hub"
3. Install the following placard near the tachometer and the manifold pressure gauge:

**"AVOID CONTINUOUS OPERATION BELOW 15 INCHES HG BETWEEN 1950 AND 2350 RPM."**

OR, if a Power Flow exhaust STC is installed, install the following placard near the tachometer and the manifold pressure gauge:

**"AVOID CONTINUOUS OPERATION BELOW 22 INCHES HG BETWEEN 1950 AND 2350 RPM."**
4. Remark the tachometer as follows:

Green Arc	500 to 2700 RPM
Red Radial	2700 RPM
5. Attach Airplane Flight Manual Supplement AFMS\_011810 to existing Mooney Airplane Flight Manual.

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6. Revise weight and balance records to show the increased propeller weight of 14.0 pounds at the same moment arm as the propeller being removed. Spinner weight is unchanged.
7. Return aircraft to service with FAA Form 337 referencing STC.

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