MOONEY AIRPLANE COMPANY, INC.
LOUIS SCHREINER FIELD
KERRVILLE, TEXAS 78028

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

MOONEY M20TN

WITH
HARTZELL PROPELLER PHC-J3YF-1RF/F7498(B)
AND SPINNER A-2295-10 INSTALLED

MODEL NO. _______________________________________________________________
REG. NO. ________________________________________________________________
SERIAL NO. ______________________________________________________________

This Supplement must be attached to the FAA Approved Airplane Flight Manual when the Hartzell Propeller PHC-J3YF-1RF/F7498(B) and Spinner A-2295-10 is installed in accordance with Mooney Drawing Number 680038. The information contained herein supplements and / or replaces the information of the basic Airplane Flight Manual. For Limitations, Procedures and Performance information not contained in this Supplement, consult the basic Airplane Flight Manual.

FAA APPROVED: _____________________________________________________________________________
Michele M. Owsley
Manager, Airplane Certification Office
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2601 Meacham Boulevard
Fort Worth, Texas 76137-0150

DATE: ______________________________
Feb. 22, 2008

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Kerrville, Texas 78028
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SECTION I – GENERAL

PROPELLER

**DESCRIPTIVE DATA**

Hartzell

Number ................................................................. 1
Manufacturer ......................................................... Hartzell
Model Number ......................................................... PHC-J3YF-1RF/F7498(B)
Number of Blades ................................................. 3
Diameter (MAX.) ...................................................... 76 in. (193.0 cm)
(MIN.) ................................................................. 74 in. (188.0 cm)
Type ................................................................. Constant Speed
Governor (McCauley) ........................................ Hydraulically controlled by engine oil

Blade Angles @ 30.0 in. Sta.:
Low ................................................................. 17.0 degrees +/- 0.2 degrees
High ................................................................. 38.0 degrees +/- 1.0 degrees
SECTION II - LIMITATIONS

NOISE LIMITS

The certificated noise level per 14 CFR Part 36, Appendix G, Amendment 36-28 of the Federal Aviation Regulations is 78.0 dB(A).

POWER PLANT LIMITATIONS

Propeller Manufacturer .......................................................... Hartzell
Propeller Hub/Blade Model Number ................................. PHC-J3YF-1RF/F7498(B)
Number of Blades ............................................................... 3
Propeller Diameter:
Min ............................................................... 74 In. (188.0 cm.)
Max ............................................................... 76 In. (193.0 cm.)
Propeller Blade Angles @ 30.0 In. sta.:
Low ............................................................... 17.0 Degrees +/- 0.2 Degrees
High ............................................................. 38.0 Degrees +/- 1.0 Degrees
Propeller Operating Limits (HARTZELL) ......................... 2500 RPM
SECTION III – EMERGENCY PROCEDURES

No Changes to Section III.

SECTION IV – NORMAL PROCEDURES

No Changes to Section IV.

SECTION V – PERFORMANCE

PERFORMANCE CONSIDERATIONS

Performance with the Hartzell three-blade PHC-J3YF-1RF/F7498(B) meets or exceeds Take-off, Climb and Cruise performance, use M20TN POH/AFM handbook charts.

SECTION VI – WEIGHT AND BALANCE

The three-blade Hartzell propeller is approximately 5 pounds lighter than the original Hartzell 3-blade propeller.

SECTION VII – AIRPLANE AND SYSTEM DESCRIPTION

The propeller is a three-blade 76-inch diameter constant-speed unit that features aluminum blades in an aluminum hub. The spinner is fabricated from aluminum alloy. A more detailed description is found in Hartzell Manual 115N (Propeller Owner’s Manual).

SECTION VIII – HANDLING AND SERVICING

Routine propeller servicing is described in the latest revision of Hartzell Manual 115N (Propeller Owner’s Manual).

SECTION IX – SUPPLEMENTAL DATA

Add this supplement to this Section

SECTION X – SAFETY TIPS

No changes to Section X.