

**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**

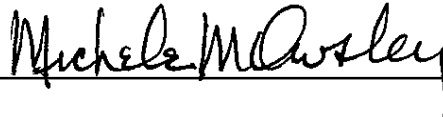
MODEL NO. _____

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
FEDERAL AVIATION ADMINISTRATION
2601 Meacham Boulevard
Fort Worth, Texas 76137-0150

DATE: Feb. 22, 2008

Copyright© 2008 All Rights Reserved Mooney Airplane Company - Louis Schreiner Field
Kerrville, Texas 78028
SUPP0019



LOG OF REVISIONS

REV.	PAGES REVISED	DESCRIPTION	FAA APPROVED	DATE
-	ALL	Original Issue	MM Quiley	2-22-08

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



TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
I GENERAL	4
II LIMITATIONS	5
III EMERGENCY PROCEDURES	6
IV NORMAL PROCEDURES	6
V PERFORMANCE	6
VI WEIGHT AND BALANCE	6
VII AIRPLANE AND SYSTEMS DESCRIPTIONS	6
VIII SERVICING AND HANDLING	6
IX SUPPLEMENTAL DATA	6
X SAFETY TIPS	6



SECTION I – GENERAL
DESCRIPTIVE DATA

PROPELLER

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.

