Bepartment of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA703GL

Date of Reissuance: November 1, 2005

Limitations and Conditions: (Continued)

Installation Specifications: (Continued)

Maximum Weight

172 J, K, L: 2500 LBS. (Normal Category) 172 M, N, P: 2550 LBS. (Normal Category)

C.G. Range

172 I. K. L:

 (± 40.5) to (± 47.3) at 2500 LBS.

(+35.0) to (+47.3) at 1950 LBS.

or less

Straight line variations between points given

172 M. N. P.

(-41.0) to (47.3) at 2550 LBS.

(-35.0) to (47.3) at 1950 LBS.

or less

Straight line variations between points given

2. Utility category maximum weight and C.G. range for all models remains as specified in type certificate data sheet 3A12.

The maximum flap deflection angle for all aircraft is 30 degrees.

4. Penn Yan Flight Manual Supplement, FAA Approved July 11, 1990 is required for aircraft models 1721. K, and L serial numbered 17256513 through 17260758.

5. Penn Yan Flight Manual Supplement, FAA Approved July 11, 1990 is required for aircraft model 172M serial numbered 17260759 through 17267584.

6. Penn Yan Supplemental Airplane Flight Manual. FAA Approved June 11, 1985 is required for the 172N serial numbered 17267585 through 17271034.

7. Penn Yan Airplane Flight Manual Supplement, FAA Approved June 11, 1985 is required for aircraft serial numbered 17271035

8. Placards pertaining to normal and normal/utility category operations are appropriate with this modification and must be properly displayed per the original aircraft data certification.

9. A copy of this STC shall be included in the permanent records of each aircraft modified according to these instructions.

10. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

11. Compatibility of this design change with previously approved modifications must be determined by the installer

.....END.....



Penn Yan Aero 2499 Bath Road Penn Yan, New York 14827 800-727-7280 / \$15-596-2380 Fax: 315-536-2395 www.PannYanAars.com

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FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 2

S/N 17260759 THRU 17257584

FOR

CESSNA 172 M

REG. NO. OH-CT/

SER. NO. 1724pbZ11

This Supplement must be carried in the aircraft when it is modified by the installation of an 180 HP engine and the gross weight is increased in accordance with STC SA703GL. The information contained herein supplements or supersedes the basic placards and markings only in those areas listed.

FAA APPROVED:

Irwin H. Brumer Manager New York

Aircraft Certificatio

Office Date: July H, 1990

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PENN YAN AERO SERVICE INC. FAM ARPHOVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR CESSNA 172 SERIES AIRCRAFT

LOG OF REVISIONS

		TOO THE REVISIONS		
Rev.	Page No.	Description	FAA Approved	Date
A	4	Added performance information to Section 5 for clarification.		
		Added Log of Revisions Page 2	I. Buma	3/8/94
		Renumbered pages	Irwin N. Brumer Manager, NYACO	, , , , , , ,
В	3	Revised Airspeed Limitations from KIAS to mph (KIAS) to agree with type certification data sheet	J. Brumer	4/19/94
			Irwin N. Brumer	

Irwin N. Brumer Manager, NYACO

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Section 1 General

This is a 180 HP engine and propeller conversion. With this conversion the normal category is the only category approved for the gross weight increase. Utility category remains as originally type certified.

Section 2 <u>Limitations</u>

THIS AIRCRAFT HAS BEEN MODIFIED PER STC SA703GL. IT MUST BE OPERATED AS A NORMAL OR UTILITY CATEGORY AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS AS STATED IN THE FORM OF PLACARDS, MARKINGS, AND MANUALS.

B. The following placard must be displayed adjacent to the flap selector switch;

MAXIMUM FLAP TRAVEL IS 30 DEGREES

- C. Placards pertaining to utility category remain unchanged as originally type certified.
- D. Near fuel tank fillers:

100LL/100 MIN GRADE AVIATION GASOLINE

- E. Gross weight 2550 pounds maximum for normal category operations.
- C.G. Range (+41.0) to (-47.3) at 2550 lbs (+35.0) to (+47.3) at 1950 lbs or less Straight line variation between points given.
- F. AIRSPEED LIMITATIONS
- Red line 182 mph (130klas) Yellow Arc 146-182 mph (127-158klas) 58-146 mph (50-127klas)
- 46-98 mph (40-85kias)
- White Arc 40-90 mpm vac crime The caneuvering speed placard should be revised to 121 mph Section 3 Emergency Procedures

NO CHANGE

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FAA APPROVED DATE: July 11, 1990 Revised: April 19, 1994 Section 4

Normal Procedures

NO CHANGE

Section 5

Performance

Performance of the Cessna 172 series aircraft, when it is modified by the installation of a 180 HP engine and the gross weight is increased, in accordance with STC SA703GL, will be equal to or better than the basic airplane

CAUTION:

The fuel consumption and range/endurance information originally presented for this model do not apply to this STC modification; increased fuel consumption and reduced range/endurance can be expected with the 180 hp engine installed.

FAA APPROVED DATE: July 11, 1990 Revised: Mar. 8, 1994

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