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FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 2

S/N 17260759 THRU 17267584

FOR

CESSNA 172 M

REG. NO. _____

SER. NO. _____

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: *J. Brumer*

Irwin R. Brumer
Manager New York
Aircraft Certification
Office

Date: July 11, 1990

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PENN YAN AERO SERVICE INC.

FAA APPROVED
 AIRPLANE FLIGHT MANUAL SUPPLEMENT
 FOR CESSNA 172 SERIES AIRCRAFT

LOG OF REVISIONS

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

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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 Limitations

A. The following placard must be displayed in full view of the pilot:

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

1. Red Line 182 mph (158kias)
2. Yellow Arc 146-182 mph (127-158kias)
3. Green Arc 58-146 mph (50-127kias)
4. White Arc 46-98 mph (40-85kias)
5. The maneuvering speed placard should be revised to 121 mph (105kias)

Section 3 Emergency Procedures

NO CHANGE

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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.

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