

VH-KMH

Particular Amendment Record Sheet

Amendment Number	Paragraph(s) Affected	Signature	Date of Incorporation
P5	Supplement: Operation with Lycoming O-360-A4M (180hp) engine. FAA STC SA703GL. EO. HSJ 1874 issue one.	<i>DR Benson</i>	15/6/96

Incorporation of a Particular Amendment must be certified by inserting the date of incorporation and signature in the appropriate columns. All amendments must embodied consecutively. This page will be reissued with each Particular Amendment, and previous copies should be retained in the Flight Manual to serve as a record of the amendments issued. Superseded Flight Manual pages should be removed and destroyed.

6.6.96
Date

Quark
For the Authority 

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number

SA703GL

Date Amended: April 20, 1994

Limitations and Conditions: (Continued)

Engine	Lycoming O-360-A4A, -A4M, -A4N
Fuel	100LL/100 minimum grade aviation gasoline
Engine Limits	For all operations, 2700 R.P.M. (180 HP)
Propeller and Propeller Limits	Sensenich 76EM8SPY Static r.p.m. at maximum permissible throttle setting: Not over 2450, not under 2275 No additional tolerance permitted. Diameter: Not over or under 76"
Maximum Weight	172 I,K,L: 2500 Lbs. (normal category) 172 M,N,P: 2550 Lbs. (normal category)
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

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.

An FAA approved Airplane Flight Manual Supplement is required for aircraft models 172 I, and L serial numbered 17256513 thru 17260758.

An FAA approved Airplane Flight Manual Supplement is required for aircraft model 172 M serial numbered 17260759 thru 17267584.

An FAA approved Supplemental Airplane Flight Manual is required for the 172 N serial numbered 17267585 thru 17271034.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number

SA703GL

Date Amended: April 20, 1994

An FAA approved Airplane flight Manual Supplement is required for aircraft serial number 17271035 and up.

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.

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

...END...

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21

PAGE 3 OF 3 PAGES

C

FAA AC 820.



PENN YAN AERO SERVICE, INC.

2400 RAILROAD
AIRPORT
PENN YAN, N.Y. 13827-0500

(315) 536-2333

180 H.P. SUPERHAWK

The Engine People

FAA APPROVED

SUPPLEMENTAL AIRPLANE FLIGHT MANUAL

FOR

CESSNA 172H

REG. NO. VH-KMH

SER. NO. 17270390

This Supplement must be carried in the aircraft when it is modified by the installation of a 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:

[Signature]
for W. F. Horn, Manager
Chicago Aircraft
Certification Office
FAA Central Region

DATE: June 11, 1985

PENN YAN AERO SERVICE INC.
FAA APPROVED
SUPPLEMENTAL AIRPLANE FLIGHT MANUAL
FOR
CESSNA 172 SERIES AIRCRAFT

LOG OF REVISIONS

<u>Rev.</u> <u>No.</u>	<u>Page</u> <u>No.</u>	<u>Description</u>	<u>FAA Approved</u>	<u>Date</u>
A	4	Added performance information to section 5 for clarification		
		Renumbered pages	 Irwin N Brumer Manager, NYACO	APR 13 1994

Penn Yan Aero Service, Inc.
2499 Bath Road, Airport
Penn Yan, NY 14527-9599

Supplemental Airplane
Flight Manual for
Cessna 172N

SECTION I - Limitations

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

THIS AIRCRAFT HAS BEEN MODIFIED BY THE INSTALLATION OF A 180 HP
ENGINE PER STC SA703GL. IT MUST BE OPERATED AS A NORMAL CATEGORY
AIRPLANE IN COMPLIANCE WITH THE OPERATING LIMITATIONS AS STATED
IN THE FORM OF PLACARDS, MARKINGS AND MANUALS.

- B. For the N model aircraft the following placard must be displayed
adjacent to the flap position selector switch:

MAXIMUM FLAP TRAVEL IS 30°

- C. The following limits apply to the normal category only.

Maximum Gross Weight - 2550 lbs.

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.

FAA APPROVED
DATED: JUN 11 1985

Page 3 of 4

Section 3 Emergency Procedures

NO CHANGE

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:

Revised: APR 13 1994 ,

Page 4 Of 4