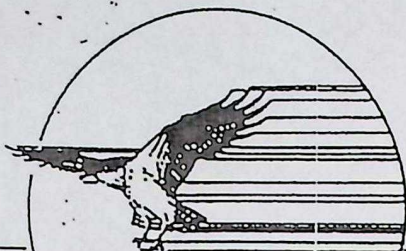


PENN YAN AERO SERVICE, INC.

2499 BATH ROAD

AIRPORT

PENN YAN, N.Y. 14527-9599



180 H.P. SUPERHAWK

(315) 536-2333

The Engine People

FAA APPROVED SUPPLEMENT

TO THE

PILOT'S OPERATING HANDBOOK AND

FAA APPROVED AIRPLANE FLIGHT MANUAL

FOR

CESSNA MODELS 172N or P

REG. NO. N5264K

SER. NO. 172740316

This Supplement must be attached to the "Pilot's Operating Handbook and FAA Approved Airplane Flight Manual when the aircraft 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 manual only in those areas listed. For limitations, procedures and performance information not contained in this Supplement, consult the basic "Pilot's Operating Handbook and FAA Approved Airplane Flight Manual."

FAA APPROVED:

W. F. Horn
FOR W. F. Horn, Manager
Chicago Aircraft
Certification Office
FAA Central Region

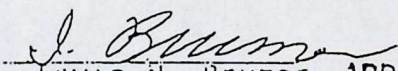
DATE: June 11, 1985

PENN VAN AERO SERVICE INC.

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT
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.		
		Added Log of Revisions Page 2		
		Renumbered pages	 Edwin H. Bruzer Manager, NYACO	APR 13 1994

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

POH and AFM Supplement
for Cessna 172N and P

SECTION I - General

DESCRIPTIVE DATA

A. Engine

Number of engines: 1
Engine Manufacturer: Avco Lycoming
Engine Model: O-360-A4A, -A4M, -A4N
Horsepower Rating and Speed: 180 rated BHP at 2700 RPM

B. Propeller

Propeller Manufacturer: Sensenich
Propeller Model Number: 76EM8S5 or 76EM8SPY
Number of Blades: 2
Propeller Diameter: 76 inches
Propeller Type: Fixed Pitch

SECTION II - 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.

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

FUEL FLOW vs. PERCENT RATED POWER
AVCO LYCOMING O-360, 180 HP SERIES
COMPRESSION RATIO 8.50:1
SPARK ADVANCE 25° BTC

FUEL FLOW - U.S. GAL./HR.

MINIMUM ALLOWABLE FUEL FLOW

