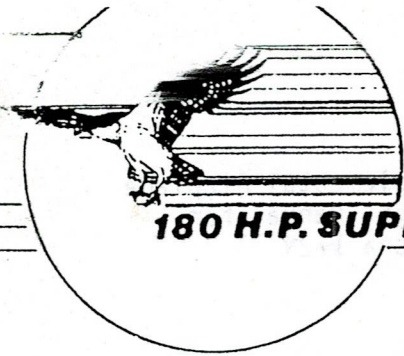




PENN YAN AERO SERVICE, INC.

2499 BATH ROAD
AIRPORT
PENN YAN, N.Y. 14527 9599

180 H.P. SUPERHAWK

(315) 536-2333

The Engine People

FAA APPROVED

SUPPLEMENTAL AIRPLANE FLIGHT MANUAL

FOR

CESSNA 172N

REG. NO. C-GXRL

SER. NO. 172-69296

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:

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

DATE: June 11, 1985

Page 1 of 3

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.

SECTION II - Emergency Procedures - No change.

SECTION III - Normal Procedures - No change.

SECTION IV - Performance - No change.

SECTION V - Weight and Balance - See Page 3.

FAA APPROVED
DATED:

JUN 11 1985

Page 2 of 3



PENN YAN AERO SERVICE, INC.

2499 BATH ROAD

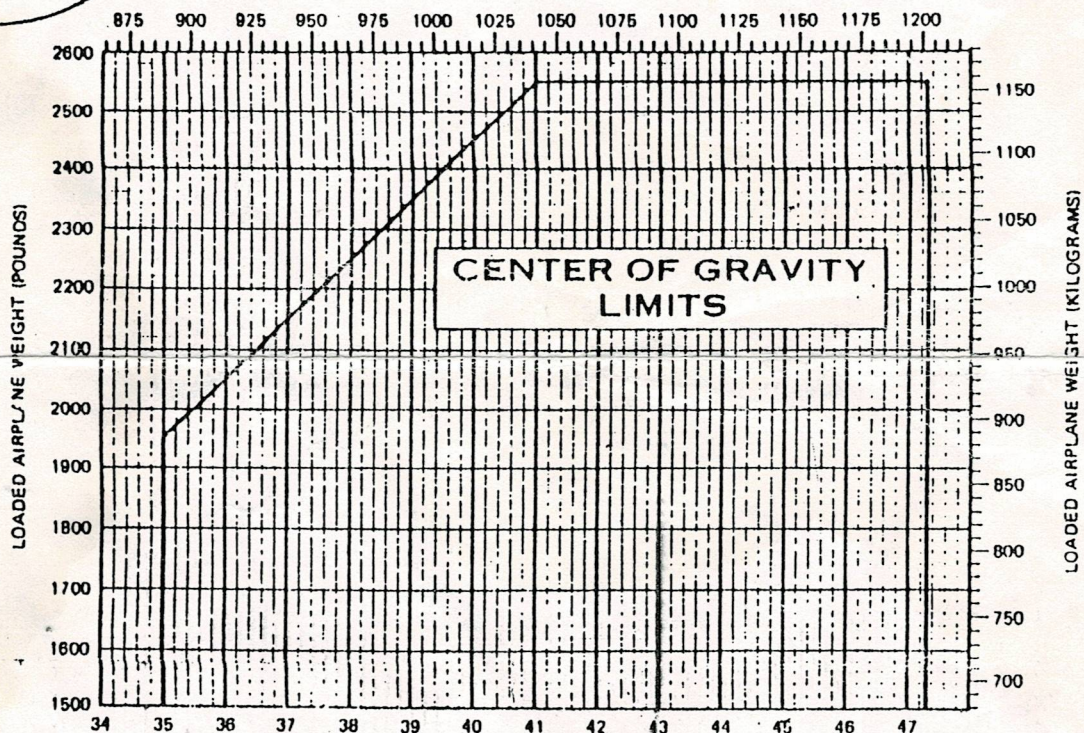
AIRPORT

PENN YAN, N.Y. 14527-9599

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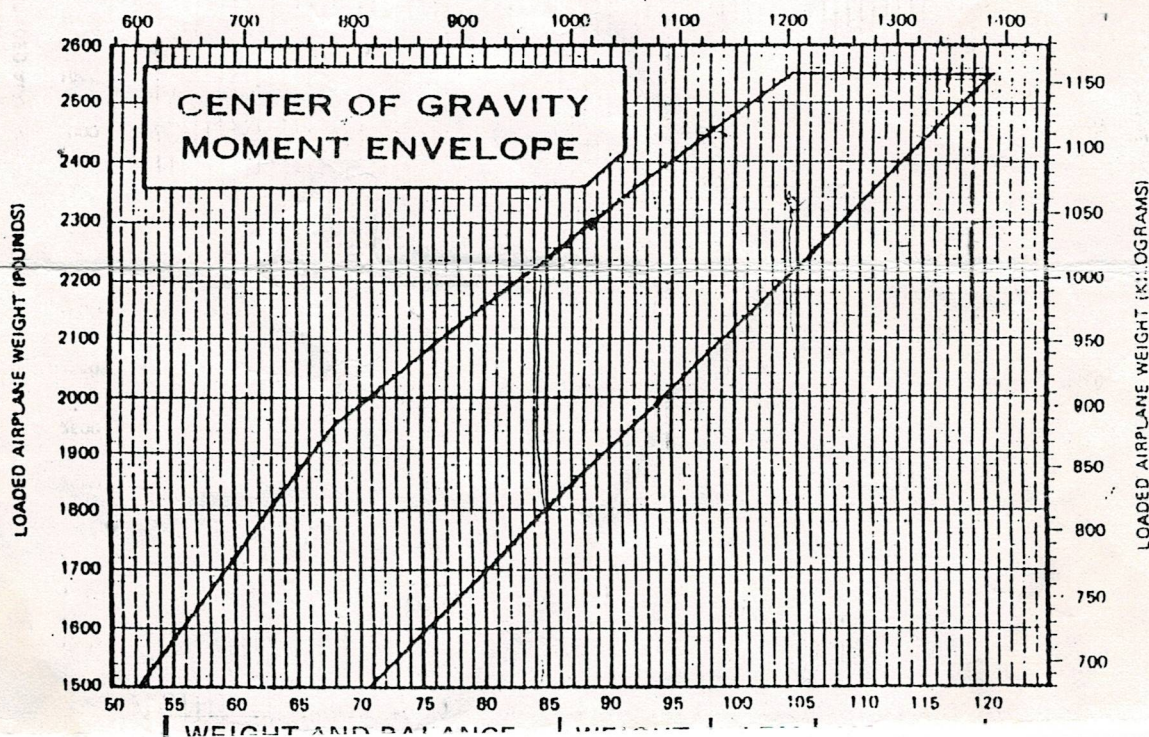
AIRPLANE C.G. LOCATION - MILLIMETERS AFT OF DATUM (STA. 0.0)



WEIGHT & BALANCE
EQUIPMENT LIST

MODEL 172 N

MODEL 172 N & P



WEIGHT & BALANCE
EQUIPMENT

FAA APPROVED

CURVE NO. 13357

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

16

14

12

10

8

6

50

60

70

80

90

100

PERCENT RATED POWER

