

United States of America
 Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA703G:

This certificate issued to Penn Yan Aero
 2499 Bath Road
 Penn Yan, NY 14527

THIS IS A ONE TIME APPROVAL
MODEL FOR AIRCRAFT
 (This certificate is issued to the applicant under the limitations and conditions specified in the certificate and the applicable provisions of Title 14 of the Federal Aviation Regulations.)
DO NOT DUPLICATE
THIS DOCUMENT ARE ILLEGAL
SIGNATURE AND VOID
COPIES OF

Original Product -- Type Certificate No. 172P
 Make: Cessna Aircraft Company

Model: 172L, 172K, 172L, 172M, 172N, 172P

Description of Type Design Change:
 Installation of Lycoming O-360-A4A, A4M, or A4N series engine and Sensenich 76EMRSPY propeller in accordance with Penn Yan Aero Service, Inc. Installation Instructions Revision 1, dated June 1, 1999 or later, FAA approved instructions. Increase the gross weight of Cessna models 172 I, K, and L to 2550 pounds. Increase the gross weight of Cessna 172 M, N, or P to 2550 pounds.

Limitations/Conditions:

- Installation Specifications:
 - 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 76EMRSPY
 - Throttle setting: 2700 R.P.M. at maximum permissible Throttle setting
 - Altitude: Not over 7000 feet MSL
 - Temperature: Not over 2275
 - No aerobically induced stalls permitted
 - Diameter: Not over 70"

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the FAA.

Date of application: February 11, 1983

Date received: September 29, 1983, April 6, 1990
 November 1, 2005

Date of issuance: August 24, 1983

Date amended: May 25, 1984, June 4, 1985, June 27, 1985, September 11, 1989, October 10, 1990, April 20, 1994, June 1, 1999

Federal Aviation Administration

By direction of the Administrator



(Signature)

Anthony Socias
 Manager
 New York Aircraft Certification Office

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

Number SA703GL

Date of Reissuance: November 1, 2005

Limitations and Conditions: (Continued)

Installation Specifications: (Continued)

Maximum Weight	172 I, 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.
3. 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 172L, 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 and up.
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.

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