United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA369NW

This certificate, issued to JAY R. COOK

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 4a *of the* Civil Air *Regulations.*

Original Product — Type Certificate Number: A-707

Make: Fairchild

Model: 24W-46

Description of Type Design Change: Installation of a Continental R-670-11 (W670-16) engine, Sensenich 98AA-66 propeller, and associated systems in accordance with Jay R. Cook photographs 1, 2, and 3.

Limitations and Conditions: Data pertaining to this modification are considered inadequate for duplication on other aircraft. This approval is limited to the installation in Fairchild 24W-46, Serial Number W46-274 only. A copy of this Certificate and Addendum No. SA369NW shall be maintained as part of the permanent records for the modified aircraft.

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 Federal Aviation Administration.

Date of application: August 24, 1976

Date of issuance: October 20, 1976

Date reissued:

Date amended:

By direction of the Administrator

D. L. Riggin

(Signature)

Acting Chief, Engineering and Manufacturing Branch

(Title)

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

This certificate may be transferred in accordance with FAR 21.47

FAA Form 8110-2 (10-68)

Supplemental Type Certificate

(Continuation Sheet)

Number SA369NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA369NW

The condition and limitation of Type Certificate Data Sheet Number A-707 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA369NW prescribes the conditions and limitations under which the product for which the STC was issued meets the airworthiness requirements of the Federal Aviation Regulations:

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Jay R. Cook

I. FAIRCHILD 24W-46 (LAND PLANE - NORMAL CATEGORY) AS MODIFIED BY STC SA369NW.

Engine:	Continental R-670-11 (W670-16)
Engine Limits:	For all operations: 2075 rpm (220 HP)
Fuel:	Minimum grade: 80/87 Octane
Propeller and Propeller Limits:	Sensenich 98AA-66 (type fixed pitch wood) Diameter: 98 inches Static Limits: Maximum - 2000 rpm Minimum - 1900 rpm
Airspeed Limits:	Same as specified in Data Sheet A-707
Maximum Weight:	2562 pounds (same as specified in data sheet A-707)
Oil Capacity:	4.75 gallons
Powerplant Instrument Markings:	Tachometer: 2075 rpm (red line) Oil Temperature: 210°F (red line) Oil Pressure: Minimum - 15 psi (red line) Maximum - 90 psi (red line) Green Arc - Between 60 and 90 psi Yellow Arc - Between 15 and 60 psi
Serial Number Eligible:	W46-274 only

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

Required Equipment: In addition to the "equipment" as applicable by the original Type Certificate, the items as specified below apply to this STC.

Continental Engine R-670-11 engine
Sensenich Model 98AA-66 propeller
Spinner
Dual Landing Lights
Navigation Lights
8" venturi
Rotating Beacon
300 Nav/Comm Radio
Turn and Bank Indicator
Gyro Compass
"G" meter
Starter - Eclipse
Generator - Eclipse
Battery - 12V - 35AH
Shielded Ignition System
Wheel Pants
Cabin air heater

NOISE CERTIFICATION PROCEDURE:

Compliance with FAR 36, Appendix F, was shown with the following procedures: Level flyover at 1000 feet AGL at 2075 engine rpm and full throttle manifold pressure. The certificated noise level is 69.0 dB(A). This noise level reflects correction of as-measured data to a standard 70°F, 77% R.H. acoustic day as well as a -2.8 dB(A) credit resulting from aircraft takeoff and climb characteristics.

NOTE 1: Current weight and balance report including list of equipment included in the certificate empty weight, must be in the aircraft.

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