

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

Number SA824NW

This certificate, issued to Tim Heneghan

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 3 of the Civil Air Regulations:

Original Product—Type Certificate Number: 5A6
Make: Cessna
Model: 180

Description of Type Design Change: Installation of a Continental O-470-R engine, Hartzell HC-82XF-1B/8433-0 propeller and Cessna 60 amp alternator (P/N C611501-0102) in accordance with Tim Heneghan photographs 1 through 5.

Limitations and Conditions: Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Cessna 180, Serial Number 30309 only. A copy of this Certificate and Addendum No. SA824NW 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 15, 1979

Date reissued:

Date of issuance: August 16, 1979

Date amended:



By direction of the Administrator
Charles C. Schroeder
(Signature)

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.

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

August 16, 1979 *Number* SA824NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA824NW

The conditions and limitations of Type Certificate Data Sheet Number 5A6 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA824NW, 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: Tim Heneghan

I. CESSNA MODEL 180, 4PCL-SM, (NORMAL CATEGORY) AS MODIFIED BY STC SA824NW

Engine: Continental O-470-R
Fuel: 80/87 octane minimum grade aviation gasoline
Engine Limits: For all operations, 2600 rpm (230 Hp)
Propeller and
Propeller Limits: Hartzell HC-82XF-1B/8433-0
Diameter: 84" maximum; 82" minimum
Pitch Setting: 12.0° Low; 28.0° High
Propeller Governor: See Data Sheet 5A6
Powerplant Instrument
Markings: Oil Temperature and Pressure:
Green Arc 120° to 225° F - normal operating range
Yellow Arc 30 to 60 psi - normal operating range
Red Line 10 psi minimum, 100 psi maximum
Tachometer:
Green Arc 500 to 2600 rpm - normal operating range
Red Line 2600 rpm - maximum
Fuel Flow:
Green Arc 0 to 25 gph - normal operating range
Red Line 18.5 psi maximum at sea level
Cylinder Head Temperature:
Green Arc 200° to 460° F - normal operating range
Red Line 460° F - maximum
C. G. Range: See Data Sheet 5A6
Maximum Weight: 2550 pounds
Serial Number Eligible: 30309 only

- END -

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