United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA881NW

This certificate, issued to AC&E Aviation

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: 3A24

Make: Cessna

Model: A185F

Description of Type Design Change: Installation of Hartzell model HC-C3YF-1RF/F8468A-6R propeller, Hartzell C-3535-1 spinner, governor and associated systems on a Continental IO-520-D engine in accordance with propeller installation instructions in Hartzell FAA Approved Propeller Owner's Manual 115J.

Limitations and Conditions: Approval of this change in type design applies basically to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Addendum No. SA881NW, and Hartzell Owner's Manual 115J 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: October 7, 1979

Date of issuance: January 7, 1980

Date reissued:

Date amended:

By direction of the Administrator

D. L. Riggin

(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 year

This certificate may be transferred in accordance wi

FAA Form 8110-2 (10-68)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

January 7, 1980 *Number* SA881NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA881NW

The conditions and limitations of Type Certificate Data Sheet Number 3A24 apply except where superseded by the following:

This Supplemental Type Certificate Data Sheet, which is part of STC SA881NW, 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: AC&E Aviation

I. CESSNA MODEL A185F (NORMAL CATEGORY) AS MODIFIED BY STC SA881NW

Engine:	Continental IO-520-D (Same)
Fuel:	100/130 octane minimum grade aviation gasoline
Engine Limits:	Maximum continuous power: 2700 rpm 285 Hp
Propeller and Propeller Limits:	Hartzell HC-C3YF-1RF/F8468A-6R Diameter: Maximum 78"; Minimum 77" Pitch Setting: High $32.6^{\circ} \pm 1.0^{\circ}$; Low $10.0^{\circ} \pm 0.1^{\circ}$
Propeller Governor:	See Data Sheet 3A24
Powerplant Instrument Markings:	Oil Temperature: Green Arc 120° to 240°F - normal operating range Oil Pressure: Green Arc 30 to 60 psi - normal operating range Red Line 20 psi minimum; 100 psi maximum Tachometer: Green Arc 2300 to 2550 rpm - normal operating range Yellow Arc 500 to 2300 rpm - caution Red Line 2700 rpm - maximum Fuel Flow: Green Arc 7 to 17 gph - normal operating range Red Line 25 gph - maximum at sea level Cylinder Head Temperature: Green Arc 200° to 460°F - normal operating range Red Line 460°F - maximum
G. G. Range:	See Data Sheet 3A24

- END -

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

FAA FORM 8110-2-1 (10-69) *This certificate may be transferred in accordance with FAR 21.47.*