

United States of America

Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA507NW

This certificate, issued to RENTON AVIATION, INC.

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, Effective May 15, 1956, as Amended by 3-1 through 3-5.

Original Product — Type Certificate Number: 3A24

Make: Cessna

Model: A185E and A185F (Floatplane)

Description of Type Design Change: Installation of Cessna Cargo Pac Kit No. AK-185-23J (Cessna Drawing 0700067), Pee Kay Ventral Fin (Drawing 35-8076), rudder non-linear centering spring with Edo seaplane floats in accordance with Renton Aviation Drawing Number 2.

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. This approval is intended for installation in the above models with Edo 628-2960 floats
(See Continuation Sheet, Page 3)

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 22, 1977

Date reissued:

Date of issuance: August 31, 1977

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.

Signature of grantor (*In ink*): _____

Date of Transfer: _____

Extent of Authority (if licensing agreement): _____

(City, State, and ZIP code)

(Number and street) *(Address of grantor)*

(Print or type) *(Name of grantor)* *From*

(City, State, and ZIP code)

(Number and street) *(Address of transferee)*

(Name of transferee) *to*

Transfer the ownership of Supplemental Type Certificate Number

TRANSFER ENDORSEMENT

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.
The FAA will reissue the certificate in the name of the transferee and forward it to him.

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Limitations and Conditions (continued): and both 2 and 3 bladed McCauley propellers in accordance with STC SA985EA. A copy of this Certificate and Addendum SA507NW shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA507NW

The conditions and limitations of the original specifications apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA507NW, prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Civil Air Regulations Part 3. A copy of this Addendum shall be maintained as part of the modified aircraft permanent records.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Renton Aviation, Inc.

I. CESSNA A185E & A185F, 6PCL (SEAPLANE NORMAL CATEGORY) AS MODIFIED BY STC SA507NW

Engine: Continental IO-420-D (same as Data Sheet 3A24)

Fuel: Same as Data Sheet 3A24

Engine Limits: Takeoff (5 min) @ 2850 rpm (300 HP)
Maximum Continuous Power - 2700 rpm (285 HP)
Same as Data Sheet 3A24

Propeller and
Propeller Limits: McCauley Constant Speed Installation

a. Two Bladed Installation (Same as Data Sheet 3A24)

McCauley D2A34C58 hub with 90AT blades 52 lb (-40)

Diameter: Max - 86"; Min - 84.5"

Pitch Settings at 36" Station:
Low - 8°; High - 25°

Garwin Hydraulic Governor 34-828-01 3 lb (-32)

Cessna Spinner 0752004 or 0752040 4 lb (-40)

Woodward Hydraulic Governor A210462 4 lb (-32)

McCauley Hydraulic Governor C290D2/T9 or
C290D3/T9

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Propeller and
Propeller Limits (cont.) b. Three Bladed Installation (Per STC SA985EA)
McCauley D3A32C90 hub with 82NC-2 blades

Airspeed Limits: Same as shown on T.C. Data Sheet 3A24 for Edo
628-2960 floatplane.

C. G. Range: Same as T.C. Data Sheet 3A24, such as:

Floatplane with Edo 628-2960 floats
(+41.7) to (+46.5) at 3320 lbs.
(+34.8) to (+46.5) at 2150 lbs. or less
Straight Line Variation Between Points Given

Maximum Weight: 3320 lbs. (Floatplane)

Required Equipment: In addition to the required equipment specified by
T.C. Data Sheet 3A24, the following items are required:

1. Cessna Cargo Pac Kit AK-185-23J
2. Pee Kay Ventral Fin - Drawing No. 35-8076
3. Rudder - non-linear centering spring - Cessna
Drawing 0742018-1 and -2 (A185F only)
4. Placard - Cessna Part No. 0705049-1

Placards: The following placards must be displayed as indicate

Flight Operation With Floats:

LATERAL STABILITY CONTROL

WARNING
IN FLOATPLANE AND AMPHIBIAN -
RETRACT FLAPS TO 20° IMMEDIATELY
AFTER APPLYING POWER FOR BALKED
LANDING GO AROUND. (CESSNA
PART NO. 0705049-1)

Flight Operation With a Cargo Pack:

THE CLIMB PERFORMANCE OF THE AIRCRAFT
EQUIPPED WITH A CARGO PACK IS APPROX-
IMATELY 140 FT/MIN LESS THAN THAT SHOWN
IN THE MAXIMUM RATE-OF-CLIMB DATA TABLE
FOR THE A185F FLOATPLANE.

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SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO SA507NW (continued)

Performance:

To obtain speed performance for the airplane equipped with the cargo pac, the speed differentials shown in the table below should be subtracted from the KTAS figures shown in the Cruise Performance charts for the standard floatplane.

SPEED DIFFERENTIAL TABLE

<u>% BHP</u>	<u>SPEED DIFFERENTIAL (KTS)</u>
75	-6
65	-7
55	-8
45	-8

- END -

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