

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

Number SA186NW

This Certificate issued to AAR Aircraft Services, Inc.
DEA: AAR Aircraft Services-Oklahoma
6611 South Meridian
Oklahoma City, OK 73159-1104

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..

Original Product Type Certificate Number: 3A25
Make: Cessna
Model: 340

Description of Type Design Change:

Installation of a Continental TSIO-520-J engine with associated equipment in accordance with Wester Skyways, Inc. Cessna 340 Modification Drawings 1 through 6 and Continental No. 340J Installation Instructions. (See STC Addendum No. SA186NW).

Limitations and Conditions:

(See continuation sheet 3 of 4)

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: April 16, 1975

Date reissued: 7/22/88; 3/5/99

Date of issuance: May 30, 1975

Date amended: September 9, 1975



By direction of the Administrator

S. Frances Cox
(Signature)
S. Frances Cox, Manager
Special Certification Office,
Southwest Region

(Title)

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

Number SA186NW

Date of Issuance: May 30, 1975
Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship 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. SA186NW, and FAA Approved Flight Manual Supplement shall be maintained as part of the permanent records for the modified aircraft.

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA186NW

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

This Addendum, which is part of Supplemental Type Certificate No. SA186NW, 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: AAR Aircraft Services, Inc.
DBA: AAR Aircraft Services-Oklahoma

I. CESSNA 340 (LANDPLANE - NORMAL CATEGORY) AS MODIFIED BY STC SA186NW

Engine: Continental TSIO-520-J

Fuel: 100-130 minimum grade aviation gasoline

Engine Limits: 310 HP @ 2700 RPM (36" Mp) for five minutes;
then reduce Mp to 33" to critical altitude of
23,000 feet. Above 23,000 feet, the following
maximum Mp applies:

Altitude (ft)	Max. Allowable Mp (in. Hg)
24,000	31.2
26,000	28.8
28,000	26.4
30,000	24.0

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

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Supplemental Type Certificate

(Continuation Sheet)

Number SA186NW

Date of Issuance: May 30, 1975
Reissuance Date: March 5, 1999

Limitations and Conditions (Continued):

Propeller and

Propeller Limits:

Two McCauley full-feathering 3-bladed propeller installations

(a) McCauley hub 3AF32C87 with 82NC-4 blades
Diameter: not over 78 in., not under 74 in. (no further reduction permitted)

Pitch settings at 30 in. station:

low 14.9 Deg., ± 0.2 Deg., feathering 81.2 Deg., ± 0.3 Deg.

(b) Hydraulic Governor Woodward B210444, C210439, B210446F or A210529H or McCauley DCF290D1/T3, DCFU290D1/T3, DCFS290D1/T3 or DCFUS290D1/T3

(c) Propeller spinner and bulkhead assembly
McCauley D-3534/D-3537

Serial Nos. Eligible: No. 340-0001 and up

Airspeed Limits: Same as specified

C.G. Limits: Same as specified

Maximum Weight: Same as specified

Powerplant Instrument Markings: Same as specified

Placards: (1) The following placard is to be in front of and in full view of the pilot:

POWER LIMITS @ 2700 RPM	
Takeoff: 5 min - 36"	
METO POWER:	
S.L. to 23,000 - 33"	
24,000	- 31.2"
26,000	- 28.8"
28,000	- 26.4"
30,000	- 24.0"

(2) The following placard is to be in full view of the pilot and near the throttle control:

AVOID CONTINUOUS OPERATION ABOVE 33 INCHES Hg. MANIFOLD PRESSURE BELOW 2600 RPM.
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-END-

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.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____

(Number and street)

(City, State, and ZIP code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____

(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____