Transferred to ANM-100S, Seattle, Washington, on 1/11/85.

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number SA403SW

Project DT85-1SW
WAS-190

This certificate, issued to Jeffrey Todd Peterson
Box 960
Tillamook, Oregon 97141

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: 3A13
Make: Cessna
Model: 182G, 182F

Description of Type Design Change:

(1) Full span double slotted flaps; (2) Drooped wing leading edge; (3) Aileron actuated drag plates; (4) Robertson U.L.S. nose control system; (5) Increased elevator aerodynamic balance; (6) Relocated pitot head in accordance with Report No. MR-460-1 "Wren 460 Master Drawing List" dated June 11, 1964, or later FAA approved revisions, and MASA Drawing No. 9000 dated April 16, 1973.

Limitations and Conditions:

1. Also eligible on Wren 460.
2. Cessna 182G Serial Numbers 18255059 and up eligible. Wren 3-460182G.
3. Cessna 182F Serial Number 18254622 only eligible.

See Continuation Sheets 2 through 3 of this STC.

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: March 12, 1963

Date reissued: December 20, 1984

Date of issuance: June 25, 1964

Date amended: 9/16/64; 12/5/67; 3/20/70; 5/11/72; 5/14/73; 3/1/74; 1/10/75; 2/28/75; 9/16/77 Rev. 9

By direction of the Administrator

[signature]
(Signature)

for Don P. Watson
Manager, Aircraft Certification Division
Southwest Region
(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)

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA403SW

STC DATA SHEET NO. SA403SW - WREN MODEL 460 (MODIFIED CESSNA 182G)

STC Holder: Jeffrey Todd Peterson
Box 960
Tillamook, Oregon 97141

This data sheet is a part of STC No. SA403SW and prescribes supplemental conditions and limitations under which the Wren 460 modification meets the airworthiness requirements of the Civil Air Regulations. All other conditions and limitations for the Wren 460 are identical to those for the Cessna 182G as specified on Data Sheet No. 3A13.

Airspeed Limits

*Maneuvering	119 m.p.h. (103 knots) true ind.
*Maximum structural cruising	160 m.p.h. (139 knots) true ind.
*Never exceed	193 m.p.h. (168 knots) true ind.
*Flaps extended	95 m.p.h. (82 knots) true ind.

C.G. Range

*(+41.0) to (+46.0) at 2800 lbs.
*(+34.5) to (+46.0) at 2250 lbs. or less
Straight line variation between points given

Control Surface Movements

Wing flaps	30°	
Ailerons	Up 18°	Down 14°
Elevator (relative to stabilizer)	Up 26°	Down 17°
Elevator Tab	Up 17°	Down 18°
Rudder	Right 24°	Down 24°
Canard flap (relative to canard)	Up 2°	Down 7°
Canard tab (relative to canard flap)	Up 2°	Down 7°

Serial Nos. eligible

Cessna 18255059 and up
Wren 3-460182G

Data pertinent to the Wren 460

Certification basis

(a) CAR 3, effective November 1, 1949, through Amendment 3-12, effective May 8, 1954, with the exception of Subpart B - Flight Requirements.

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

United States of America
Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)

Number SA403SW

STC DATA SHEET NO. SA403SW (continued)

(b) Subpart B - Flight Requirements of CAR 3, effective May 15, 1956, through Amendment 3-5, effective October 1, 1959.

(c) Special conditions outlined in FAA letter to Wren Aircraft dated January 23, 1964.

Equipment

Refer to Wren 460 Equipment List for eligible equipment.

Production Basis

None

NOTE 1. Current Wren 460 weight and balance report, list of equipment (included in certificated empty weight) and loading instructions must be in each aircraft at the time of original airworthiness certificate.

NOTE 2. The following placard must be displayed in full view of the pilot in lieu of the corresponding Cessna 182G placard:

Flight Maneuver Load Factors

Flaps Up	+3.8	-1.52
Flaps Down	+2.0	

*The operating limits marked by an asterisk must be displayed by permanent markings, placards, or manuals.

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