

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

Number SA1758WE

This Certificate issued to Flint Aero, Inc.
1942 Joe Crosson Drive
El Cajon, California 92020-1236

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. See applicable Type Certificate Data Sheet.

Original Product Type Certificate Number: See Page 3 of this STC

Make: CESSNA

Model: See page 3 of this STC

Description of Type Design Change: Installation of one twelve gallon auxiliary fuel tank in each wing, inboard of tip in accordance with FAA sealed Flint Aero Master Drawing List No. No. 15171821, Revision "IR", dated May 18, 2006, or later FAA approved revision. Airplane Flight Manual Supplement FTC453.002, Revision Original, dated April 3, 2006, or later FAA approved revision or Airplane Flight Manual Supplement FTC798-001 (for Cessna T182T & 182T NAV III airplanes), Revision IR, dated February 12, 2008, or later FAA approved revision is also required as part of this modification.

Limitations and Conditions: The limitations and conditions of Data Sheet 3A13 or A42EU apply, except as outlined on this STC. A copy of this STC must be included in the permanent records of each airplane modified in accordance with this STC. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

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: July 09, 1968

Date reissued: Mar. 8, 1976; Feb. 6, 1987;
June 15, 1990; Feb. 25, 2000; September 27, 2012

Date of issuance: August 2, 1968

Date amended: See Page 7 of this STC



By direction of the Administrator

(Signature)

Manager, Airframe Branch
Los Angeles Aircraft Certification Office

(Title)

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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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 the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transfer) _____

(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)*: _____

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Supplemental Type Certificate

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Number SA1758WE

Application: 07/09/68 Issue: 08/02/68 Amendments: See page 7 of this STC
Reissue: 03/08/76, 02/06/87, 06/15/90, 02/25/2000, September 27, 2012

LIMITATIONS AND CONDITIONS:

Type Certificate No.

Models

3A13 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H,
182J, 182K, 182L, 182M, 182N, 182P, 182Q, R182, TR182, 182R,
T182, 182S, 182T, T182T

A42EU F182P, F182Q, FR182

Fuel Capacity

Model 182 – 84 gal. (78 gal. useable); two 30 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

Models 182A through 182D - 89 gal. (78 gal. useable); two 32.5 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

Models 182E through 182N and 182P (S/N165, 18260826 through 18262250) - 89 gal. (78 gal. useable); two 32.5 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

Models 182E through 182N and 182P (S/N165, 18260826 through 18262250 with optional Cessna Long Range main tanks – 108 gal. (102 gal. useable); two 42 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

Models F182P, 182P, (S/N 18262251 and up) and models 182Q and F182Q - 85 gal. (79 gal. useable); two 30.5 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

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LIMITATIONS AND CONDITIONS:

Fuel Capacity
(continued)

Models F182P, 182P, (S/N 18262251 and up), F182Q and model 182Q with optional Cessna Long Range main tanks – 104 gal. (98 gal. useable); two 40 gal. main tanks in wings at (+48) and two 12 gal. aux. tanks in wings at (+50).

Models R182, FR182, TR182, 182R, and T182 (S/N R18200001), (R182200584 and up) – 116 gal. (111 gal. useable); two integral 46 gal. main tanks (44 gal. useable) in wings at (+48) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

Models R182, FR182, TR182 (S/N R18200002 through R18200583) – 85 gal. (79 gal. useable); two bladder cell type 30.5 gal. standard main tanks (28 gal. useable) in wings at (+48) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

Models R182, FR182, TR182 (S/N R18200001, R18200584 and up) – 104 gal. (98 gal. useable); two bladder cell type 40 gal. long range main tanks (37.5 gal. useable) in wings at (+48) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

Model 182S (S/N 18280001 through 18280944) – 116 gal. (111 gal. useable); two integral 46 gal. main tanks (44 gal. useable) in wings at (+46.5) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

Model 182T (S/N 18280945 and up) – 116 gal.(110 gal. useable); two integral 46 gal. main tanks (44 gal. useable) in wings at (+46.5) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

Model T182T (S/N 18208001 and up) – 116 gal.(110 gal. useable); two integral 46 gal. main tanks (44 gal. useable) in wings at (+46.5) and two 12 gal. (11.5 gal. useable) aux. tanks in wings at (+50).

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Reissue: 03/08/76, 02/06/87, 06/15/90, 02/25/2000, September 27, 2012

LIMITATIONS AND CONDITIONS:

Airspeed Limits

Same as shown on Data Sheet 3A13 except for the following:
Model 182N:

- Maneuvering 128 MPH (111 knots) TIA
- Never Exceed 193 MPH (168 knots) TIA

Model 182P (S/N 675, 18260826 through 18264295):

- Never Exceed 193 MPH (168 knots) TIA

Model 182P (S/N 18264296 and up), F182P, 182Q, F182Q, 182R, T182,
182S, 182T, and T182T:

- Never Exceed 172 knots IAS

The airspeed indicator of Models 182N, 182P, F182P, F182Q, and 182Q
must be remarked accordingly.

C.G. Range

Same as shown on Data Sheet 3A13 or A42EU except aft C.G. limit
is 45 in. for Models 182E through 182R and T182 with fuel in aux.
tanks.

Same as shown on Data Sheet 3A13 or A42EU except aft C.G. limit is 44 in.
for Models R182, FR182, TR182, 182S, 182T, and T182T with fuel in aux.
tanks.

Placards

The following placards are required in the locations noted:

Adjacent to each auxiliary tank shut-off switch: "Total Aux. Fuel 24
U.S. gal. (23 gal. useable). Transfer aux. fuel only in level flight when main
is half empty and when main tank is not supplying engine. Aux. fuel switch
must be off during takeoff, landing, filling, and when empty".

Adjacent to each auxiliary tank filler:

For Models 182 through 182D: "12 U.S. gal. 80 min. grade Av. Gasoline.
Aux. fuel switch must be off before filling".

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LIMITATIONS AND CONDITIONS:

For Models 182E through 182P and F182P, 182R, T182: “12 U.S. gal.
80/87 min. grade Av. Gasoline aux. fuel switch must be off before filling”.

For Models 182Q and F182Q: “12 U.S. gal. 100/130 min. grade Av. Gasoline. Aux.
fuel switch must be off before filling”.

For Models R182, FR182, TR182, T182, 182S, 182T and T182T: “12 U.S. gal.
(11.5 gal. useable) 100/100LL Aviation grade gasoline. Aux. fuel switch
must be off before filling”.

For Models 182E through 182P and F182P, T182, 182R – in full view of the
pilot: “Aft C.G. limit 45 in. with fuel aux. tanks”.

For Models R182, TR182, 182S, 182T and T182T - in full view of the pilot:
“Aft C.G. limit 44 in. with fuel in aux. tanks.”

For Models TR182, T182 and T182T: “Reduce Vne 5 MPH per 1000 ft.
Above 18000 ft”.

For Models T182T and 182T NAV III – on the instrument panel above the
Standby airspeed: “NEVER EXCEED SPEED: 172KIAS”.

Limitation of
Applicability

The approval of this change in type design applies to the basic Cessna 182 airplane series of the models shown on page 3 of this STC. This approval should not be extended to other aircraft of these models on which other modifications are incorporated unless it is determined that the interrelationship between this change and any previously approved modifications will introduce no adverse effect on the airworthiness of these aircraft.

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Amendment Dates

1. December 31, 1969
2. October 26, 1971
3. May 23, 1972
4. August 7, 1973
5. December 13, 1974
6. March 8, 1976
7. April 30, 1976
8. August 10, 1977
9. February 15, 1979
10. September 19, 1980
11. January 7, 1982
12. November 15, 1984
13. November 23, 2005
14. May 1, 2006
15. December 22, 2006 add MDL 15171821 Rev "IR"
16. February 26, 2008, correct TCDS No. for F182P
17. February 18, 2009, added FTC798.001 Airplane Flight Manual Supplement
18. September 27, 2012, added Models F182Q and FR182

- END -

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