United States of America

Department of [redacted]ransportation—Federal Aviation Administration [redacted]

Supplemental Type Certificate

Number SA1809WE

This certificate, issued to Flint Aero

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.* (See applicable Type Certificate Data Sheet.)

Original Product—Type Certificate Number: See page 3 of this STC
Make: Cessna
Model: 150 Series - See page 3 of this STC

Description of Type Design Change:
Installation of one twelve-gallon auxiliary fuel tank in each outboard wing panel in accordance with FAA sealed Flint Aero Drawing List No. FA-150, "NEW" or FAA later approved revisions. For Cessna Models 152 and A152 requiring FAA approved AFM and POH, Flint Aero FAA approved AFM and POH Supplement, dated May 18, 1984 or later FAA approved revisions is required with this installation.

Limitations and Conditions:
The limitations and conditions of Data Sheet 3A19 or A13EU apply except as outlined on page 3 of this STC. A copy of this STC must be included in the permanent records of each airplane modified in accordance with 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: September 19, 1968 *Date reissued:* March 8, 1976

Date of issuance: October 15, 1968 *Date amended:* May 18, 1984 - See page 4 of this STC for previous amendment dates.

By direction of the Administrator

(Signature)

Manager, Western 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.

This certificate may be transferred in accordance with FAR 21.47.

Supplemental Type Certificate

(Continuation Sheet)

Number SA1809WE
May 18, 1984

Original Product - continued

Type Certificate No.	Models
3A19	150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152
A13EU	*F150G, F150H, F150J, F150K, F150L, F150M, F150K, FA150L, FA150M, FRA150L, F152, FA152

*Reims Aviation S.A. Cessna Models

Limitations and Conditions - continued

Fuel Capacity

Add "24 gallons total and (23 gallon usable); two 12-gallon auxiliary tanks in wings at (+44)" to quantities shown in Data Sheet 3A19 or A13EU.

Placards

The following placards are required in the locations noted:

Adjacent to each auxiliary tank shutoff valve or switch:

1. For all aircraft - "Auxiliary fuel 12 US Gal. Aux. (11.5 gallon usable) fuel must be off during takeoff, landing filling, and when Aux. is empty.

2. For aircraft with gravity transfer only - "Do not use Aux. until main tank is approximately one-half (1/2) empty."

3. For aircraft with pump transfer only - "Monitor main fuel tank gage while transferring Aux. fuel to prevent overfilling."

4. For all aircraft - "Intentional spins prohibited with fuel in auxiliary tanks."

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

Supplemental Type Certificate

(Continuation Sheet)

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Limitations and Conditions (Continued)

5. For Acrobatic Category Models (A150, A152, FA150, and FRA150 series, and FA152) only - "Fuel must be off and auxiliary tanks empty for acrobatic maneuevers."

   Adjacent to airspeed indicator: For Acrobatic Category Models (A150, A152, FA150, and FRA150 series, FA152) only - "Airspeed limits when auxiliary fuel tanks contain any amount of fuel:

V_{ne} (never exceed)	162 MPH (141 Kts)
V_{no} (max. structural cruise)	120 MPH (104 Kts)
V_a (maneuvering)	109 MPH (95 Kts)

   Adjacent to each auxiliary fuel tank filler:

   For all aircraft - "12 US Gal. **Min. Grade AV. gasoline, auxiliary fuel valve must be off before filling."

   **Insert grade number shown on placards for main tanks.

Limitation of Applicability

The approval of this change in type design applies to the basic Cessna 150 and 152 series noted above. 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 modification will introduce no adverse effect on the airworthiness of these aircraft.

Previous Amendment Dates

1. May 27, 1969
2. October 2, 1970
3. October 13, 1970
4. June 14, 1971
5. February 22, 1974
6. March 8, 1976
7. April 20, 1977
8. January 21, 1982

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