

FLINT AERO, INC.


1935 North Marshall Avenue
El Cajon, CA 92020

FAA APPROVED PILOT'S OPERATING HANDBOOK AIRPLANE FLIGHT MANUAL SUPPLEMENT NO. 185.14, AND SUPPLEMENTAL AIRPLANE FLIGHT MANUAL

FOR
CESSNA MODELS 185, 185A, 185B, 185C, 185D
185E, A185E, AND A185F PLACARD, POH,
AND FAA APPROVED AIRPLANE FLIGHT MANUAL AIRCRAFT

This document must be carried on board (and attached to the Pilot's Operating Handbook or FAA Approved Airplane Flight Manual as noted below*) when the airplane is modified by the installation of the Flint Aero Wing Tip Fuel Tanks in accordance with STC SA8036NM.
The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures, and performance information not contained in this document, consult the basic placards, Pilot's Operating Handbook, and Airplane Flight Manual.

Model 185:	632, 185-0001 through 185-0237 except 185-0222
Model 185A	185-0238 through 185-0512
Model 185B:	185-0513 through 185-0653
Model 185C:	185-0654 through 185-0776
Model 185D:	185-0777 through 185-0967
Model 185E:	185-0968 through 185-1149
Model A185E:	185-0968 through 18502090
Model A185F:	652, 18502091 through 18502310 except 18502300
	18502311 through 18502838
	18502839 through 18503153 *Cessna P/N D1063-13
	18503154 through 18503458 *Cessna P/N D1088-13
	18503459 through 18503683 *Cessna P/N D1116-13
	18502300 *Cessna P/N D1144-13PH
	18503684 through 18503938 *Cessna P/N D1144-13PH
	18503939 through 18504138 *Cessna P/N D1179-13PH
	18504139 through 18504328 *Cessna P/N D1200-13PH
	18504329 through 18504394 *Cessna P/N D1219-13PH
	18504395 through 18504415 *Cessna P/N D1237-13PH
	18504416 through 18504424 *Cessna P/N D1258-13PH
	18504425 through 18504448
	18504449 and on



Manager, Flight Test Branch, ANM-160L
Federal Aviation Administration

Los Angeles Aircraft Certification Office
Transport Airplane Directorate

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REVISIONS AND ADDITIONS

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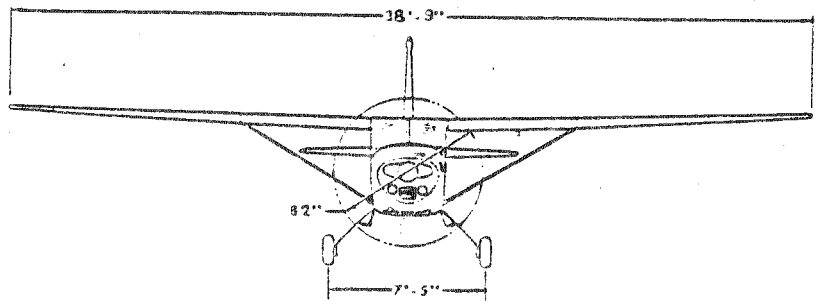
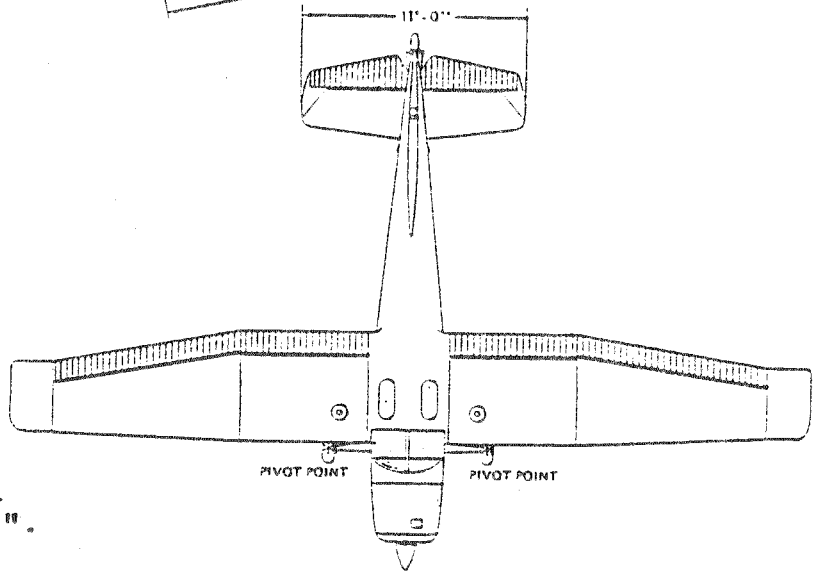
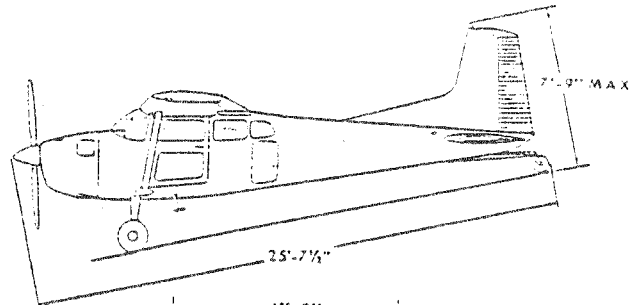
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NOTES:

1. Dimensions shown are based on standard empty weight and proper tire inflation.
2. Wheel base length is 20'6".
3. Propeller ground clearance is 13".
4. Wing area is 185 square feet.
5. Minimum turning radius (*pivot point to outboard wing tip) is 23'0".



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SECTION 1

GENERAL INTRODUCTION

This supplement addresses the operation of the Cessna 185 airplane when modified by installation of Flint Aero Wing Tip Fuel Tanks in accordance with STC SA8036NM. A maximum gross weight increase to 3600 pounds is also authorized for specific configurations when these Tip Fuel Tanks are installed. At gross weights above the Cessna original, new performance data are included herein.

SECTION 2

LIMITATIONS

1. Airspeed Limitations
Never exceed speed (Vne) and maximum structural cruising speed (Vno) remains unchanged for all models.
2. Airspeed Indicator Markings
Airspeed indicator color code significance remain unchanged for all models. The lower limit of the white arc of the indicator is increased for each model by 3 knots or 3 MPH as appropriate.
3. Power Plant Instrument Markings
Power plant markings and their color code significance.

Instrument	Red Line	Green Arc	Red Line
	Minimum Limit	Normal Operating	Maximum Limit
Wing Tip Fuel Tank Quantity Indicators	E (0.2 U.S. Gal. Unusable Each Tank)

Figure 2-3 Power Plant Instrument Markings

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SECTION 2

LIMITATIONS

4. Weight Limitations

For Cessna 185, 185A, 185B, 185C, 185D, 185E, A185E and A185F airplanes incorporation STC SA8036NM, the maximum gross weight, in pounds, is limited as follows:

CONFIGURATION	MTOGW	MLGW
Basic Airplane with wheels	3600	3600
Ag Carryall	3600	3600
Amphibian, Edo 597-2790 floats, land	3625	3100
Amphibian, Edo 597-2790 floats, water	3100	3100
Cargo Pack	3600	3600
Floatplane, Edo 628-2960 Floats	3320	3320
Skiplane	3350	3350

For installation of other modifications by STC, the maximum gross weight is limited to that which is authorized by each particular STC. The pilot is advised to determine this gross weight limit from each appropriate STC.

5. Center of Gravity Limits

-Center of gravity range, inches aft of datum		
Forward Limit	Aft Limit	Weight, lbs.
43.3	46.5	3600
34.5	46.5	2100
34.5	46.5	1700

Straight line variation between points.

6. Fuel Limitations

A. Wing Tip Fuel Tank Capacities (U.S. Gallons)
In addition to standard tanks and long range tanks (if installed).

<u>Wing Tip Fuel Tank</u>	<u>185-A185E</u>	<u>A185F</u>
Total Capacity	= 28.0	30.0
Total Capacity Each Tank	= 14.0	15.0
Total Usable	= 27.6	29.6
Total Usable Each Tank	= 13.8	14.6

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SECTION 2

LIMITATIONS

B. Wing Tip Fuel Tank Transfer Limits

-When feeding from either or both main tanks, do not transfer wing tip tank fuel into a main fuel tank until it is at least 14.0 gallons below full (15.0 U.S. gallons for the A185F).

-When feeding from either main tank, begin tip tank transfer into that tank before its level drops below five gallons remaining. When feeding from both main tanks, begin tip tank transfer before either main tank drops below five gallons remaining.

-Do not transfer wing tip fuel unless in level flight.

-Do not transfer wing tip fuel during take off, landing, refueling, and when empty.

Note: Main fuel tank quantity below the full level can be determined by reference to fuel quantity gauges and by calculating fuel used by:

- 1) Estimating engine fuel flow rates versus time.
- 2) If installed, using engine fuel flow rate indicator versus time.

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