

**Flight / Operating Manual
Supplement**

Cessna 182 Series aircraft
Fitted with ART “*WingExtensions* ”
Models R1582, R1582-1, R1582-SS, R1582-1-CS
in Accordance with STA # SA 93-136 or
STC # SA00276 NY

The information contained in this supplement supersedes that contained in the basic flight / operating manual for the airplane, otherwise the basic flight manual and other applicable supplements are applicable to the modified airplane. Compliance with Section 2 is mandatory.

This supplement is to be attached to the approved Flight / Operating manual for the airplane.

DOT Approved

_____ Date

(stamp)

K.J. Mansfield
Chief, Flight Test
for director, Airworthiness
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_____ K.J. Mansfield
Chief, Flight Test
Date

DOT Approved

Log of Amendments to
Flight Manual supplement for Cessna 182
with
ART “*WingExtensions* ” installed
Models R 1582, R 1582-1, R 1582-SS, R 1582-1-CS

Number	Date inserted	Signature	Effected pages	Approved by

Section 1

GENERAL

The ART R 1582 "*WingExtensions* " increase the wingspan of the aircraft by 37.75 inches, to 39 ft. 1.75 inches, thereby adding 12.4 Sq. ft to the total wing area.

The all aluminium wing extension kit, including paint and spar reinforcement, increases the basic weight of the aircraft by 17 lbs. at an average ARM of 52" in. aft of datum.

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Section 2

LIMITATIONS

Airspeed Limits

-With the Wing extensions installed Vne is reduced to 180 MPH IAS or as otherwise limited by the float installation.

Placards

Near the airspeed indicator in full view of the pilot “ with wing extensions installed, Vne = 180 MPH IAS ”

Weight Limits

Maximum take-off Weight for aircraft fitted with the O-470 type engine - 2,950 lbs. except for those Cessna 180 models incorporating other approved modifications permitting operations beyond 2,950 lbs. or as limited by the buoyancy of the installed floats. (whichever is lower).

To determine the maximum allowable take off weight for specific floats, divide the float size by .9

eg. Float size = 2870
Maximum Weight = $2,870 / .9 = 3188.88$ Lbs.

Section 2

LIMITATIONS (continued)

Center of Gravity Limits

Models 182,182A thru D Landplane and Seaplane:

Forward: (+39.94) aft of datum at all weights above 2550 lbs. or as otherwise limited by the float installation.

Aft Landplane : (No change).

Aft Seaplane : (+43.32) aft of datum at all weights above 2550 lbs. or as otherwise limited by the float installation.

Models 182E thru M Landplane and Seaplane:

Forward: (+39.94) aft of datum at all weights above 2800 lbs. or as otherwise limited by the float installation.

Aft Landplane: (No change).

Aft Seaplane: (+43.32) aft of datum or as otherwise limited by the float installation.

Section 3

EMERGENCY PROCEDURES

-No change

Section 4

NORMAL PROCEDURES

-No change

Section 5

PERFORMANCE

Stall Speeds

With the wing extensions installed, the Stalling speeds at 2950 lbs. are approximately the same as the basic aircraft.

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