

**Flight / Operating Manual  
Supplement**

Cessna 182 Series aircraft  
Fitted with ART "Wing Extensions"  
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 24 Jul 97  
Date

(stamp)

K.J. Mansfield  
Chief, Flight Test  
for director, Airworthiness  
Transport Canada

  
Chief, Flight Test  
for Director, Aircraft Certification  
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K.J. Mansfield  
Chief, Flight Test  
Date \_\_\_\_\_

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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.

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## 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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