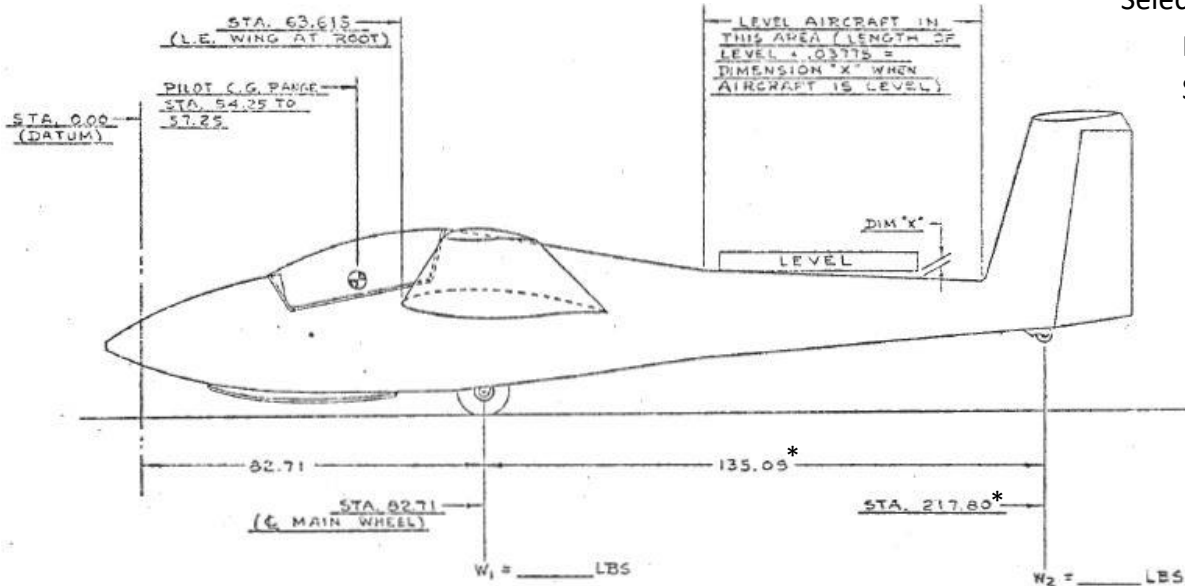




Aft Wheel Position Weight & Balance

Model: 1-36 Serial No.: _____ Registration No.: _____ Date: _____



Select Tail Wheel Type
Fixed Tail Wheel
Spring Tail Wheel

Allowable center of gravity (C.G.) range (Aircraft Loaded) is between Stations 76.96 and 82.71 or 25% to 40% mean aerodynamic chord (M.A.C.)

L.E. MAC is STA 67.382 (MAC 38.32 in)

Max Gross Weight = 710 lbs

1.) Empty Weight: $W_E = W_1 + W_2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ lbs

2.) C.G. Empty: $CG_E = \frac{(W_2 \times 135.09 \text{ or } 140.39^*)}{W_E} + 82.71 = \frac{(\underline{\hspace{2cm}} \times \underline{\hspace{2cm}})}{(\underline{\hspace{2cm}})} + 82.71 = \text{Sta. } \underline{\hspace{2cm}}$

* If aircraft is equipped with optional spring tail wheel the 135.09" dimension changes to 140.39" and tail wheel Sta. 217.80 becomes 223.10

3.) Minimum Weight Pilot (Seat Fwd): $= \frac{(CG_E - 82.71) \times W_E}{82.71 - 54.25} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{28.46} = \underline{\hspace{2cm}}$ lbs

4.) Minimum Weight Pilot (Seat Aft): $= \frac{(CG_E - 82.71) \times W_E}{82.71 - 57.25} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{25.46} = \underline{\hspace{2cm}}$ lbs

5.) Maximum Weight Pilot: = Max. Gross Weight – Empty Weight = 710 - $\underline{\hspace{2cm}}$ = $\underline{\hspace{2cm}}$ lbs

6.) Maximum Weight Pilot (Seat Fwd): $= \frac{(CG_E - 76.96) \times W_E}{76.96 - 54.25} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{22.71} = \underline{\hspace{2cm}}$ lbs

7.) Maximum Weight Pilot (Seat Aft): $= \frac{(CG_E - 76.96) \times W_E}{76.96 - 57.25} = \frac{\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}}{19.71} = \underline{\hspace{2cm}}$ lbs

Placard Limits: Min Weight Pilot (Use Lower Weight From Step 3 or 4) = $\underline{\hspace{2cm}}$ lbs

Max Weight Pilot (Use Lower Weight From Step 5, 6, or 7) = $\underline{\hspace{2cm}}$ lbs

Calculated By: _____

Date: _____

Checked By: _____

Date: _____

Item No.	Item Description	Weight	Arm	Moment
1.	Fixed Nose Ballast		4.00	
2.	Airspeed Indicator	1.00	34.00	34
3.	Sensitive Altimeter	1.25	34.00	42
4.	Magnetic Compass	1.5	34.00	34
	<u>Optional And Special Equipment</u>			