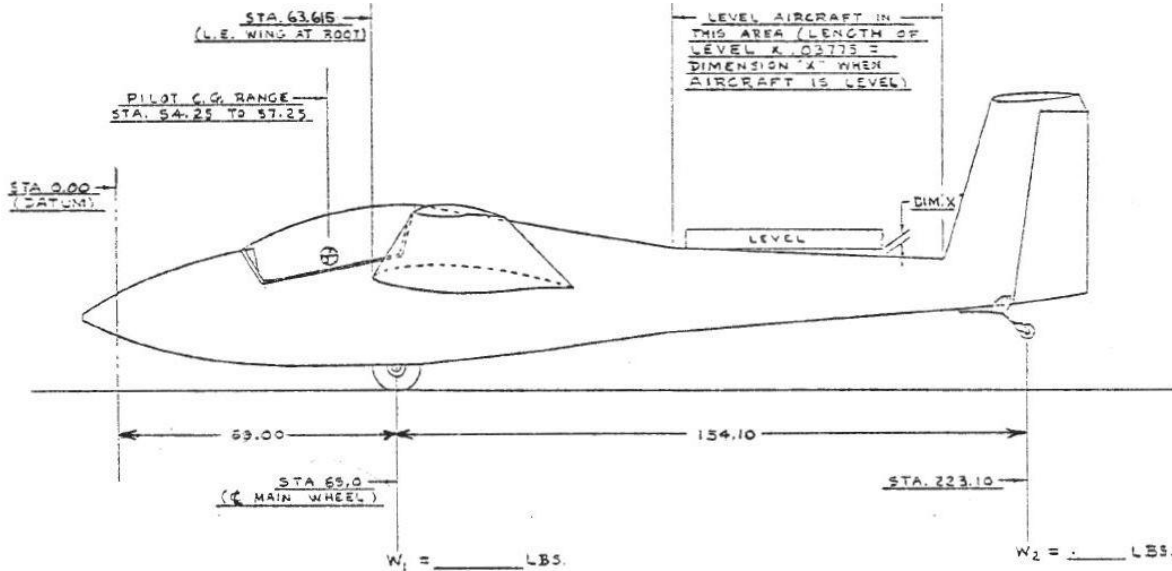




## Forward Wheel Position Weight & Balance

Model: 1-36 Serial No.: \_\_\_\_\_ Registration No.: \_\_\_\_\_ Date: \_\_\_\_\_



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:  $CG_E = \frac{(W_2 \times 154.10)}{W_E} + 69.00 = \frac{(\underline{\hspace{2cm}} \times 154.10)}{(\underline{\hspace{2cm}})} + 69.00 = \text{Sta. } \underline{\hspace{2cm}}$

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>			