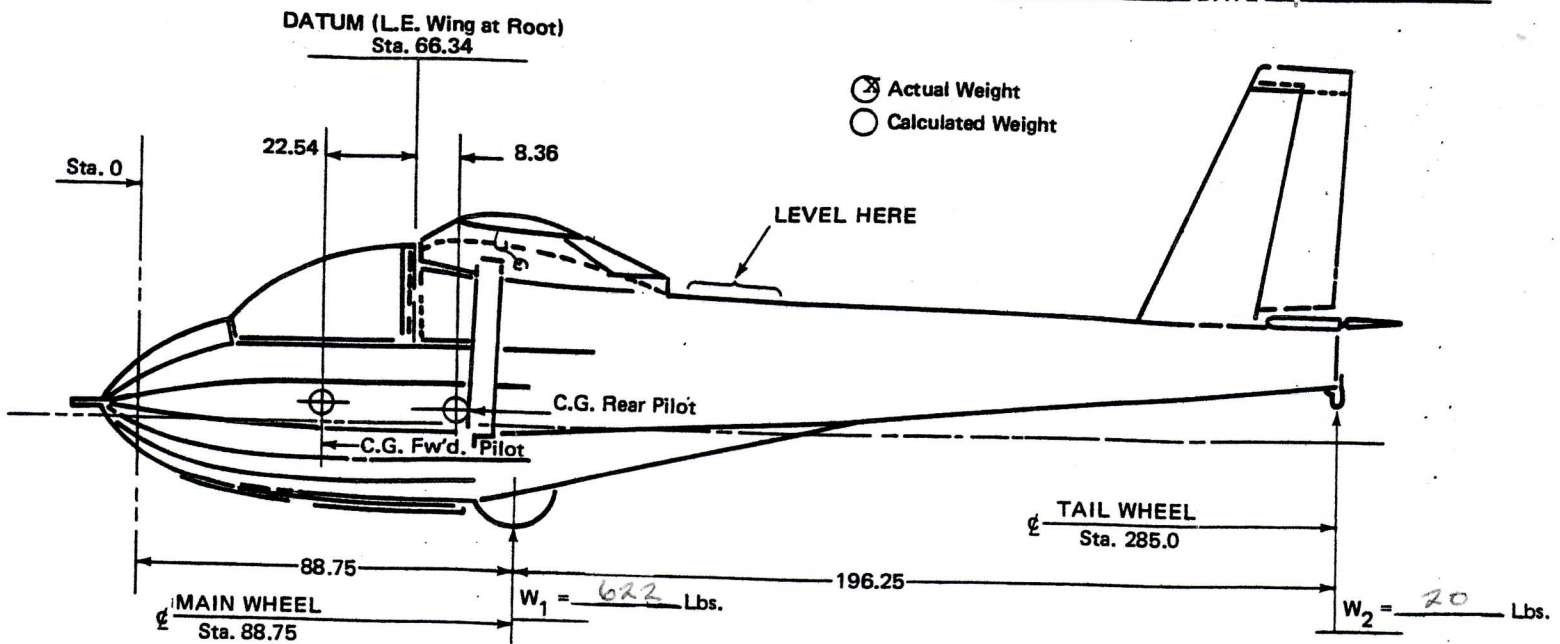


WEIGHT & BALANCE, MODEL NO. SGS 2-33A SER. NO. 564 REG. NO. N36135 DATE April 16, 2010



Empty Wt. =  $W_1 + W_2 = 622 + 20 = 642$  Lbs.

Empty C.G. (Sta.) =  $\frac{W_2 \times 196.25 + 88.75}{W_1 + W_2} = \frac{20 \times 196.25 + 88.75}{642} = \text{Sta. } 94.86$

SHIP AS WEIGHED INCLUDES EQUIPMENT LISTED ON I-4427-3  
 NOTES: See Glide Data Sheet No. G2EA - Fw'd Pilot C.G. at Sta. 43.80 - Rear Pilot C.G. at Sta. 74.70  
 CLASS II, UTILITY: C.G. Limits - Sta. 78.20 to Sta. 86.10, or, 11.86" to 19.76" Aft Datum.

*Emm Shup* 1644265 A+P

4-16-2010

WEIGHT & BALANCE MODEL SGS 2-33A

Ser. No.: 564 Reg. No.: N361365

C. G. CONDITIONS - AFT LIMIT

MIN. WEIGHT PILOT SOLO (FRONT SEAT):

$$\text{Min. Pilot Weight} = \frac{\text{Empty Wt. (C. G. Empty - 86.10)}}{42.30} = \frac{642 (94.86 - 86.10)}{42.30} = \underline{132.95} \text{ lbs.}$$

MIN. WEIGHT REAR PILOT (ASSUMING 100# FWD PILOT):

$$\text{Min. Pilot Weight} = \frac{\text{Empty Weight (C. G. Empty - 86.10)} - 372}{11.40} = \frac{642 (94.86 - 86.10) - 372}{11.40} = \underline{121.3} \text{ lbs.}$$

C. G. CONDITIONS - FORWARD LIMIT

MAX. WEIGHT REAR PILOT (ASSUMING 220# FWD. PILOT):

STEP #1:  $\text{Max. Pilot Weight} = \frac{\text{Empty Weight (C. G. Empty - 78.20)} - 2162}{3.50} = \frac{642 (94.86 - 78.20) - 2162}{3.50} = \underline{893.9} \text{ lbs.}$

STEP #2:  $\text{Max. Pilot Weight} = *1040 - (\text{Empty Weight} + 220) = 1040 - (642 + 220) = \underline{178} \text{ lbs.}$

Use lower Weight from Step 1 or 2 for Max. Rear Pilot Weight.

\* Maximum Gross Weight is 1040 LBS.

Prepared by: *Emm Alt* checked by: \_\_\_\_\_  
Date: April 16, 2010 Date: \_\_\_\_\_

