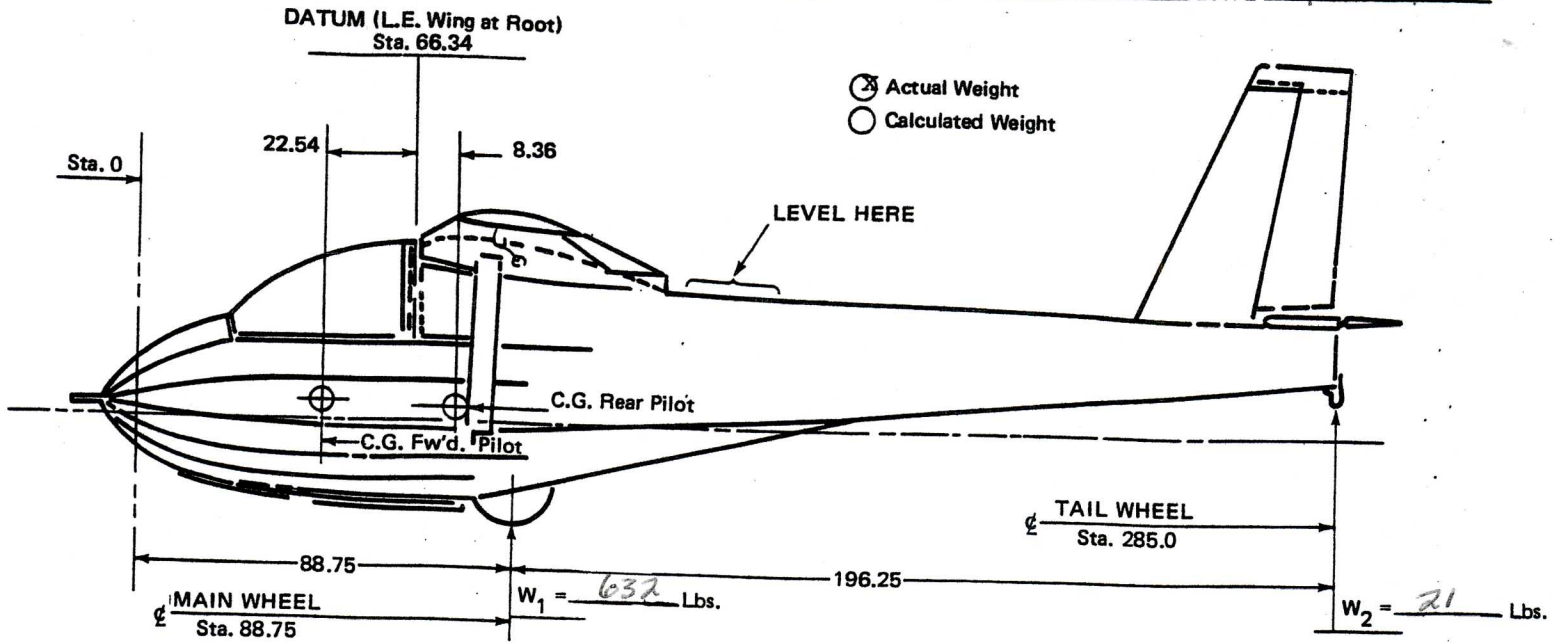


WEIGHT & BALANCE, MODEL NO. SGS 2-33A SER. NO. 435 REG. NO. N2613H DATE April 9 2010



Empty Wt. =  $W_1 + W_2 = 632 + 21 = 653$  Lbs.

Empty C.G. (Sta.) =  $\frac{W_2 \times 196.25 + 88.75}{W_1 + W_2} = \frac{21 \times 196.25 + 88.75}{653} = \text{Sta. } 95.06$

SHIP AS WEIGHED INCLUDES EQUIPMENT LISTED ON I-4427-3

NOTES: See Glider 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 Hart* 1644269 A+P

WEIGHT & BALANCE MODEL SGS 2-33A

Ser. No.: 435 Reg. No.: N 2615H

C. G. CONDITIONS - AFT LIMIT

MIN. WEIGHT PILOT SOLO (FRONT SEAT):

Min. Pilot Weight =  $\frac{\text{Empty Wt. (C. G. Empty - 86.10)}}{42.30} = \frac{653 (95.06 - 86.10)}{42.30} = 138$  lbs.

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

Min. Pilot Weight =  $\frac{\text{Empty Weight (C. G. Empty - 86.10)} - 372}{11.40} = \frac{653 (95.06 - 86.10) - 372}{11.40} = 141$  lbs.

C. G. CONDITIONS - FORWARD LIMIT

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

STEP #1: Max. Pilot Weight =  $\frac{\text{Empty Weight (C. G. Empty - 78.20)} - 2162}{3.50} = \frac{653 (95.06 - 78.20) - 2162}{3.50} = 983$  lbs.

STEP #2: Max. Pilot Weight =  $*1040 - (\text{Empty Weight} + 220) = 1040 - (653 + 220) = 167$  lbs.

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

\* Maximum Gross Weight is 1040 LBS.

Prepared by: *[Signature]* 1644269 ATP checked by: \_\_\_\_\_  
Date: April 9, 2010 Date: \_\_\_\_\_

