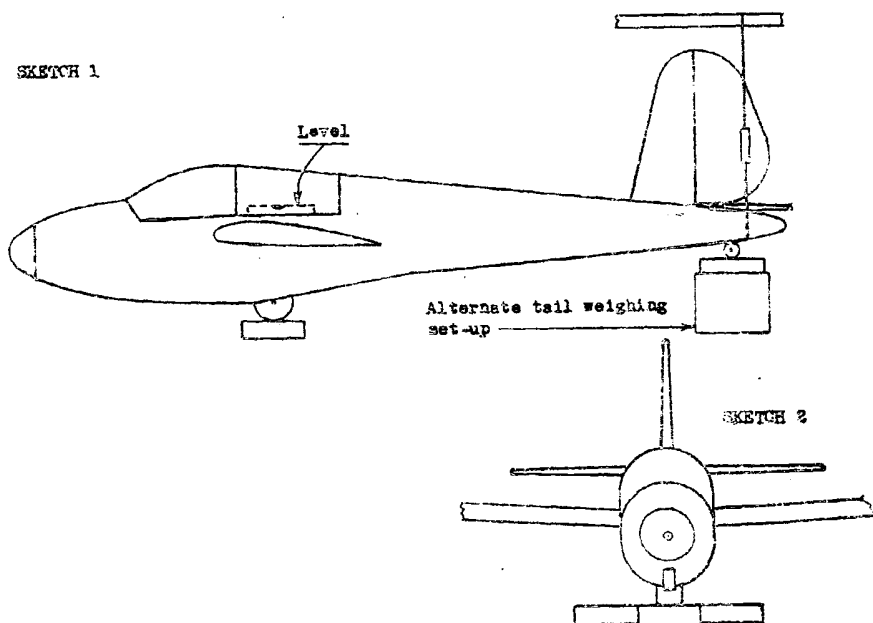


SGS 1-26 WEIGHT AND BALANCE PROCEDURE

Upon completion and final assembly of the 1-26, the ship must be weighed to determine the weight and center of gravity location. Normal variations in material and finishing noticeably affect the component weights, thereby, changing the C.G. and making necessary a check on each ship, however, similar to another.

The following procedure may be followed to weigh the ship, the results being used with SAC Form I-4032.

The ship is set up in a level position with a scale (preferably a good platform scale) under the main wheel and a wire or cable wrapped around the center elevator hinge and hooked to another scale sluing from an overhead support. The main top longerons aft of the main carry-thru are top be level with the ship's center line, and a level placed on one of these will indicate the level of the ship.



If a good platform scale is not available, two bath-room type scales may be used under the main wheel by placing a board over the two scales and placing the ship on the board (see Sketch 2). Care should be taken to check the wheel to prevent the ship from rolling and damaging the structure. Any good tension-type scale may be used on the tail. Be sure this scale rises vertically from the centerline to obtain an accurate reading.

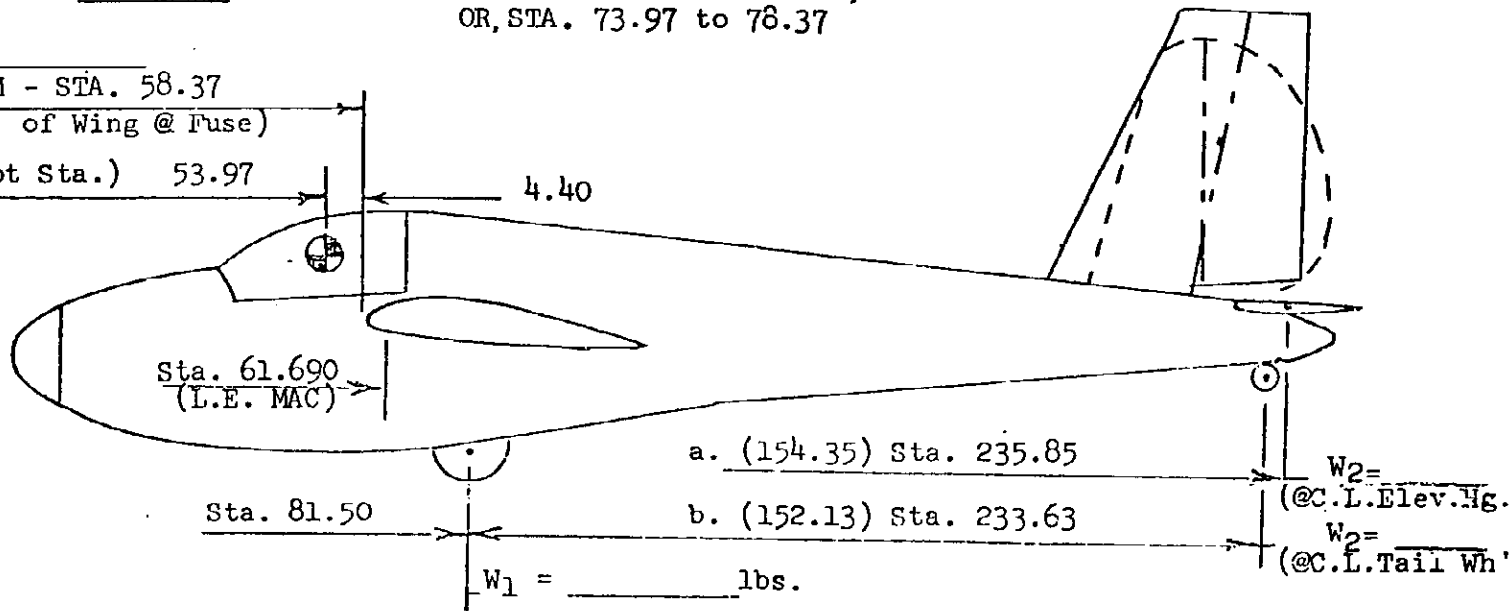
WEIGHT & BALANCE, SGS 1-26

SERIAL NO. _____

C.G. LIMITS:
15.6" to 20.0 AFT DATUM,
OR, STA. 73.97 to 78.37

N- _____
DATUM - STA. 58.37
(L.E. of Wing @ Fuse)

(Pilot Sta.) 53.97



$W_1 + W_2$ _____ # + _____ # = _____ # Weight Empty

Step 1: C.G. Empty $\frac{W_2 \times (a. \text{ or } b.)}{(W_1 + W_2)} + 81.50 =$ _____ # x (_____) = _____

_____ + 81.50 = C.G. Empty, Sta. _____

Step 2: Min. Wt. Pilot = $\frac{(C.G. \text{ Empty} - 78.37) \times (Empty \text{ Wt.})}{24.37} =$
 $\frac{(_____ - 78.37) \times (_____)}{24.37} = \frac{(_____)}{24.37} \times (_____)$ = _____ lbs.

Step 3A: Max. Wt. Pilot = _____ - Empty Wt. = _____ - _____ = _____ lbs.

Max. Gross Wt. (1-26 & 1-26A 575#) (1-26D 700#)
 (1-26B & 1-26C 600#) (1-26E 700#)

Step 3B: Max. Wt. Pilot = $\frac{(C.G. \text{ Empty} - 73.97) \times (Empty \text{ Wt.})}{19.97} =$
 $\frac{(_____ - 73.97) \times (_____)}{19.97} =$
 $\frac{19.97}{19.97} \times _____ =$ _____ lbs.

Placard Limits:

Min. Wt. Pilot From Step 2 _____

Max. Wt. Pilot (Use lower Wt. from Step 3A or Step 3B) _____

Wt. & Bal. Calc. by: _____ Date _____

Wt. & Bal. Checked by: _____ Date _____

SCHWEIZER AIRCRAFT CORP.
Elmira, New York

SGS 1-26 _____

Serial No. _____

Reg. No. N- _____

The Empty Weight as Listed on Sheet 1 includes the following Equipment:

Item No.		Weight	Arm	Moment
	<u>REQUIRED EQUIPMENT</u>			
1.	Wheel, Schweizer Model 26B-201	7.0	81.50	570
2.	Airspeed Indicator	Nil	34.00	---
()	(Ref: Aircraft Specification 1G10) Fixed Ballast on Nose Bulkhead		(D&E) 3.00 (thru C) 6.00	
	OPTIONAL & SPECIAL EQUIPMENT (Ref: Form I-4032-2)			

The following items are required equipment or available and approved as special or optional equipment on listed models.

<u>REQUIRED EQUIPMENT</u>	<u>WEIGHT</u>	<u>ARM</u>	<u>MOMENT</u>
1. Wheel, Schweizer Model 26B-201	7.0	81.50	570
2. Airspeed Indicator	Neglect	34.00	- -
<u>OPTIONAL OR SPECIAL EQUIPMENT</u>			
1. Robinson Rate of Climb (Variometer)	Neglect	34.00	- -
2. Cosim Variometer	1.50	25.00	37
3. Sensitive Altimeter	1.25	34.00	42
4. Ball Bank Indicator	Neglect	34.00	- -
5. Turn & Bank Indicator with 4.5 Battery	1.50	34.00	51
6. Rate of Climb with Tank	1.00	34.00	34
7. B-21 Compass	1.00	34.00	34
8. Cook Compass	Neglect	- - -	- -
9. Clock	Neglect	34.00	- -
10. Air Vent P/N 1D-304-1A	1.25	22.00	27
11. a. Skycrafter Radio, TRV-122 w/Battery	11.00	31.00	341
b. Battery & Battery Box, Fw'd	9.00	12.00	279
12. BEI 990 Radio with Batteries	13.50	31.00	419
13. Special Release Hook (CG) per drwg. 26G-143	4.00	42.50	170
14. Wheel Cover: (a) Aluminum (26H-207)	Neglect	81.50	- -
(b) Fiberglass (26G-212)	Neglect	81.50	- -
15. Total Energy Head (Drwg. 26B-949)	.40	94.00	38
16. Safety Cushion (Drwg. 26D-327)	5.00	54.00	270
17. Oxygen Install. (Drwg. 26H-932) (a) AN6029 Indicator	.50	23.00	12
(b) Regulator & Hose	4.00	48.00	192
(c) Oxygen Cyl. ZEP #C-250-22)	13.00	92.00	1196
18. 12V. Bank & Turn Installation (Drwg. 26D-938):			
a. Batteries (2) and Bracket	3.5	12.00	42
b. Indicator (Allen #12F65-A1A)	1.5	34.00	51
19. Crossfell Variometer: (a) Indicator	1.25	34.00	43
(b) Sensing Unit & Flask	1.50	30.00	45
(c) 4.5V Battery	1.00	30.00	30
(d) Audio Unit	2.00	30.00	60
20. Wing Tip Wheels, (2) @ 2.0#	4.00	82.50	330