



Calculated Weight and Balance
(33033 Dual Removable Ballast)

Select Gross Weight*

1040# Gross Weight

1080# Gross Weight

Model No. :	SGS 2-33	Serial No. :	Registration No. :
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	Weight [lb.] (W1)	Station [in.]	Moment [in·lb] (M1)
Empty Weight (from Wt. & Bal. dated _____)			

Note: Weight × Station = Moment

Optional Equipment Added:	Weight [lb.] (W2)	Station [in.]	Moment [in·lb] (M2)
a. 26058-005 Removable Ballast Weight 1	19.50	10.88	212.16
b. 26058-005 Removable Ballast Weight 2	19.50	10.88	212.16

Empty C.G. Station [in.] (S1)	
$\frac{(M1 + M2)}{(W1 + W2)} = S1$	
(1) Weight Installed	(2) Weights Installed
$\frac{(\quad + 212.16)}{(\quad + 19.50)} = \quad \text{in.}$	$\frac{(\quad + 424.32)}{(\quad + 39.00)} = \quad \text{in.}$

Max. Weight Aft Pilot With 220 lb. Forward Pilot	
$\text{Max. Gross Wt.}^* - ((W1 + W2) + 220)$	
(1) Weight Installed	(2) Weights Installed
$-(\quad + \quad) + 220 = \quad \text{lbs.}$	$-(\quad + \quad) + 220 = \quad \text{lbs.}$
*1040# or 1080# Maximum Gross Weight (Select Above)	

Min. Weight Forward Pilot – Solo	
$\frac{(W1 + W2) \times (S1 - 86.10)}{42.30}$	
(1) Weight Installed	(2) Weights Installed
$\frac{(\quad + \quad) \times (\quad - 86.10)}{42.30} = \quad \text{lbs.}$	$\frac{(\quad + \quad) \times (\quad - 86.10)}{42.30} = \quad \text{lbs.}$

Note: The above minimum and maximum pilot weights are valid ONLY when the removable ballast weight is in place.

Calculated by: _____ Date: _____

Checked by: _____ Date: _____