K & L Soaring, LLC
Cayuta NY 14824

Form: I-4606A
Rev: 12/11/15

Calculated Weight and Balance

(33011 Removable Ballast)

Model No. : SGS 2-33	Serial No. :	Registration No. :

	Weight [lb.] (W1)	Station [in.]	Moment [in·lb] (M1)
Empty Weight (from Wt. & Bal. dated _____)			0.00

Note: Weight × Station = Moment

Optional Equipment Added:	Weight [lb.] (W2)	Station [in.]	Moment [in·lb] (M2)
a. P/N 33011, Removable Ballast Installation	19.50	13.05	254.48

Note: 33011, Removable Ballast Installation, shown in figure 1.

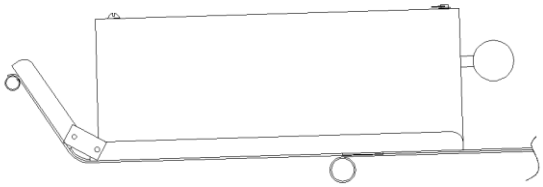

Figure 1: 33011, Removable Ballast Installation

Select Gross Weight*

- ○ 1040# Gross Weight
- ○ 1080# Gross Weight

Station [in.] (S1)	
$\frac{(M1+M2)}{(W1+W2)} = S1$	$\frac{(\ 0.00\ +\ 254.48\ )}{(\ +\ 19.50\ )} =$ 13.05 in.

Max. Weight Aft Pilot With 220 lb. Forward Pilot	
$Max.\,Gross\ Wt.^{*} - ((W1+W2)\ +\ 220)$	$-((\ +\ 19.50\ )\ +\ 220) =$ -240 lbs.
***1040# or 1080# Maximum Gross Weight (Select Above)**	

Min. Weight Aft Pilot With 100 lb. Forward Pilot	
$\frac{(W1+W2)\ \times\ (S1\ -\ 86.10)}{11.40} - 372$	$\frac{(\ +\ 19.50\ )\ \times\ (\ 13.05\ -86.10)}{11.40} - 372$ $= -519$ lbs.

Min. Weight Forward Pilot – Solo	
$\frac{(W1+W2)\ \times\ (S1\ -\ 86.10)}{42.30}$	$\frac{(\ +\ 19.50\ )\ \times\ (\ 13.05\ -86.10)}{42.30} =$ -40 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: _____