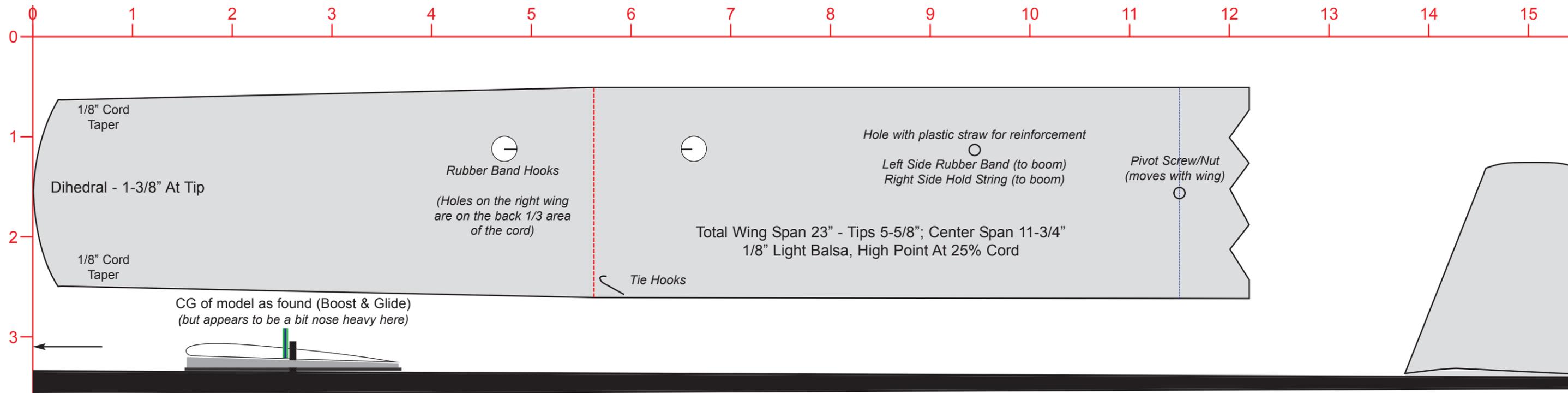


UZBEKISTAN S4 SWING-FLOP DESIGN (2012 WSMC - 17.2 g + Spent Motor/Zenit A2-3)

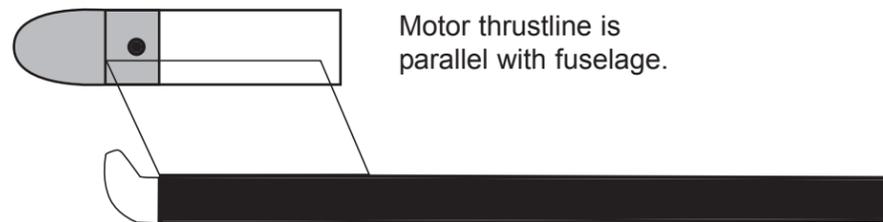


Wing Pivot Screw
(12-7/8" From Back of Fuselage)

Total Boom Legth - 18.75"

Wing mount "wedge" is made of 1/4" wide stock of balsa and G-10 type material which are glued to the center line of the wing bottom. An additional layer of G-10 is glued to the boom - with the two G-10 layers acting as the pivot area, this creates a solid/stable angle of attack for the wing once it is deployed - the angle is about 1.8 degrees. Note the boom also has a very slight taper; adding just a touch more incidence.

Rudder and Stab are 3/32" Balsa Flat bottom Stab with top airfoiled, symmetrical airfoil on the Rudder; Note: the Rudder is mounted straight in line with the boom. Turn seems to be induced by the wing being mounted with the left side being lower than the right.



Pylon is 3 piece balsa, a V shape on each side - mounting up to the lower side of the motor tube then the 3 piece covers the front of the pylon with a curved shape. This creates more of a cradle for the motor tube.

NOTE: This drawing is of the model as found, it and the first model I built from these plans is nose heavy - roughly 0.5 grams of weight on the tail is needed for trimming.