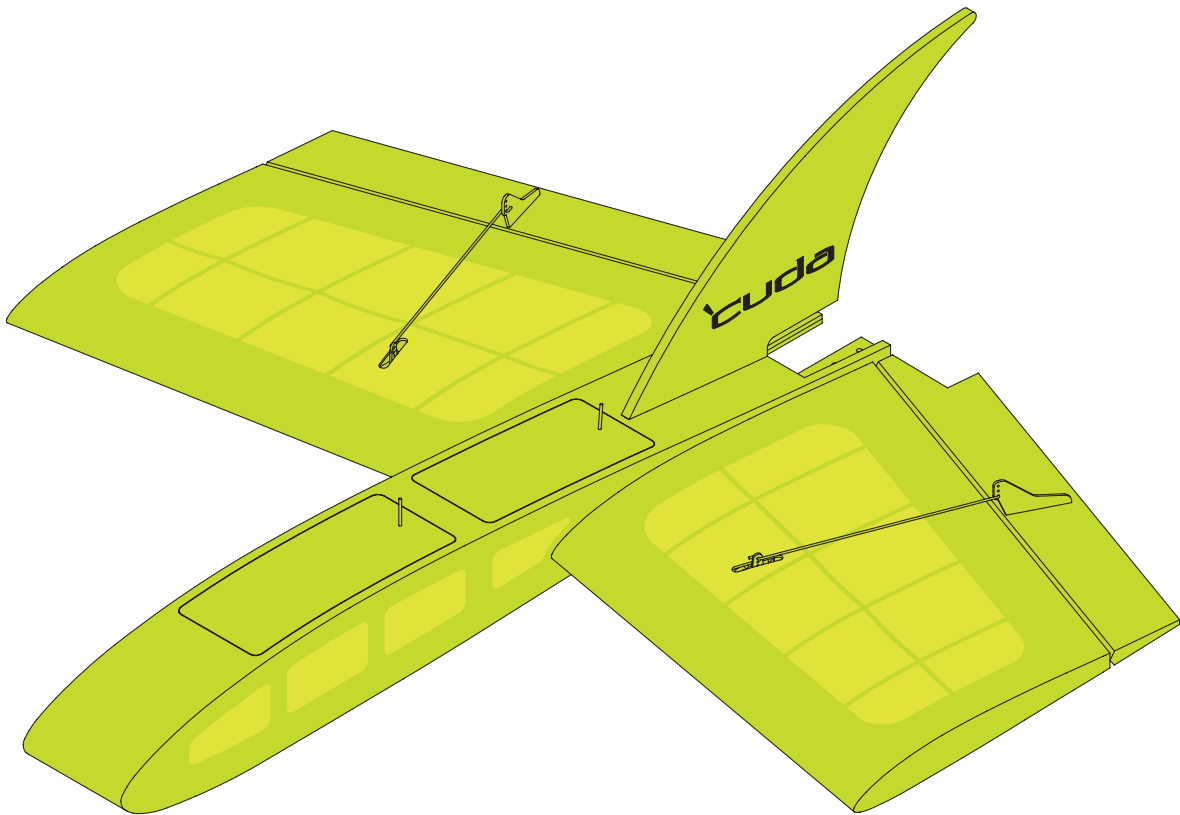


Laine's Planes

'cuda



This is a temporary draft of
the instructions.

It includes several revisions from the
prototype.

The 3D drawings have not yet been
updated to reflect all of the changes.

Revised: Feb. 17, 2015

Time spent waiting for glue to dry can be minimized by creating sub-assemblies.

Below is a suggested list of suggested sub-assemblies in a suggested build order:

Page 2: Fuselage Sides - Parts F1, F8 & F0

Page 2: Motor Mount - Parts M1 (inrunner) or M2, M3 & M4 (outrunner)

Page 3: Parts F7 & Magnets

Page 3A: Fuse Top Skin - Parts T1, T2, T3 & T4

Page 4: Fuse Bottom Skin - Parts B1, B2 & B3

Page 6: Vertical Fin Skins - Parts V2 & V3

Page 7: Wing Root Ribs - Parts R1, D1 & D2

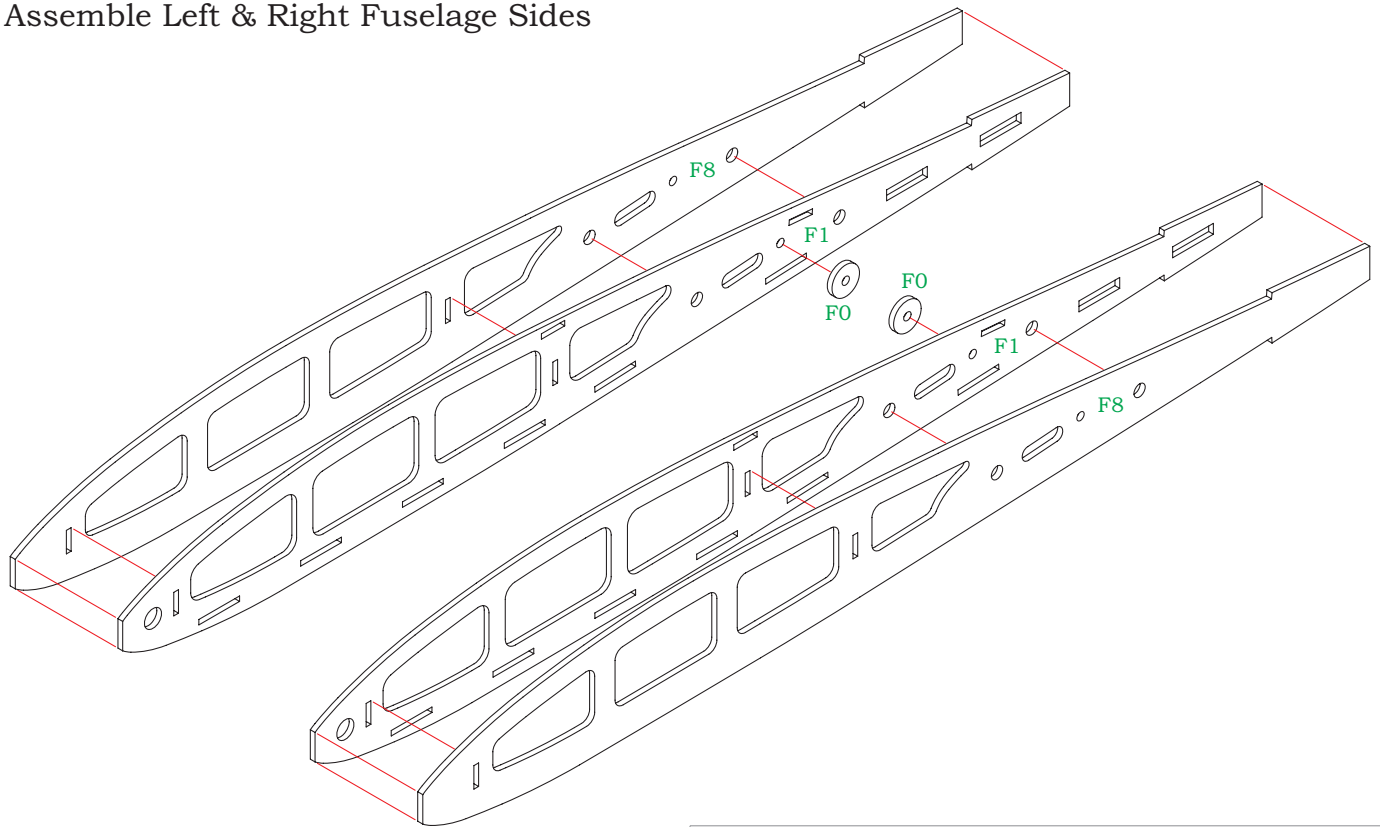
Page 9: Uppers Wing Skins - Parts X1, X2, X3, X4 & X5

Page 9: Lowers Wing Skins - Parts Y1, Y2, Y3, Y4, & Y5

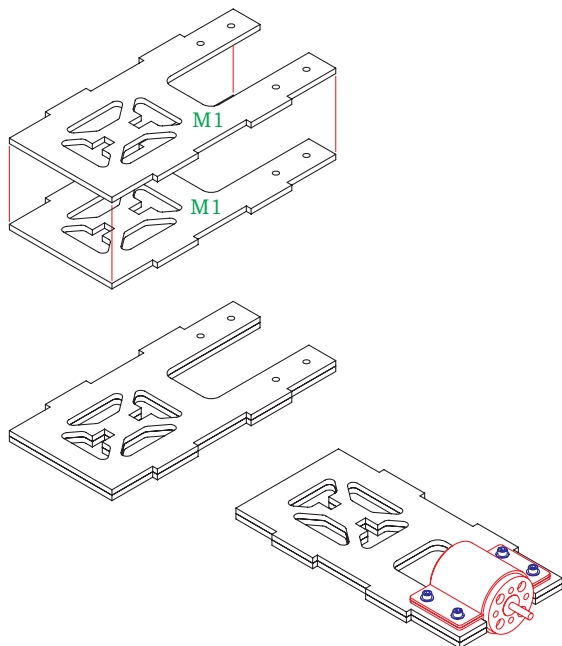
Page 11: Elevons Lower Skin & Ribs - Parts - A1, A2 & A3

Fuselage Assembly

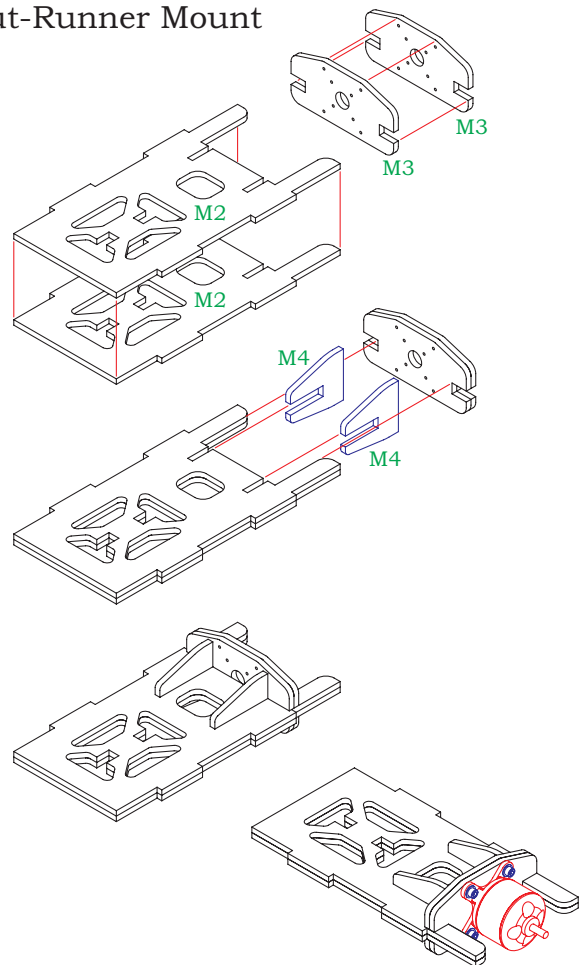
Assemble Left & Right Fuselage Sides

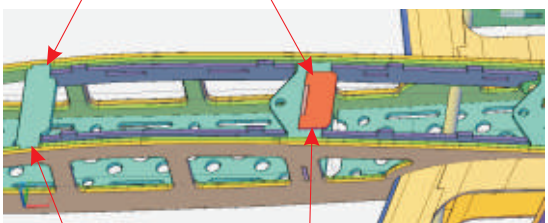
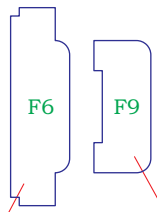
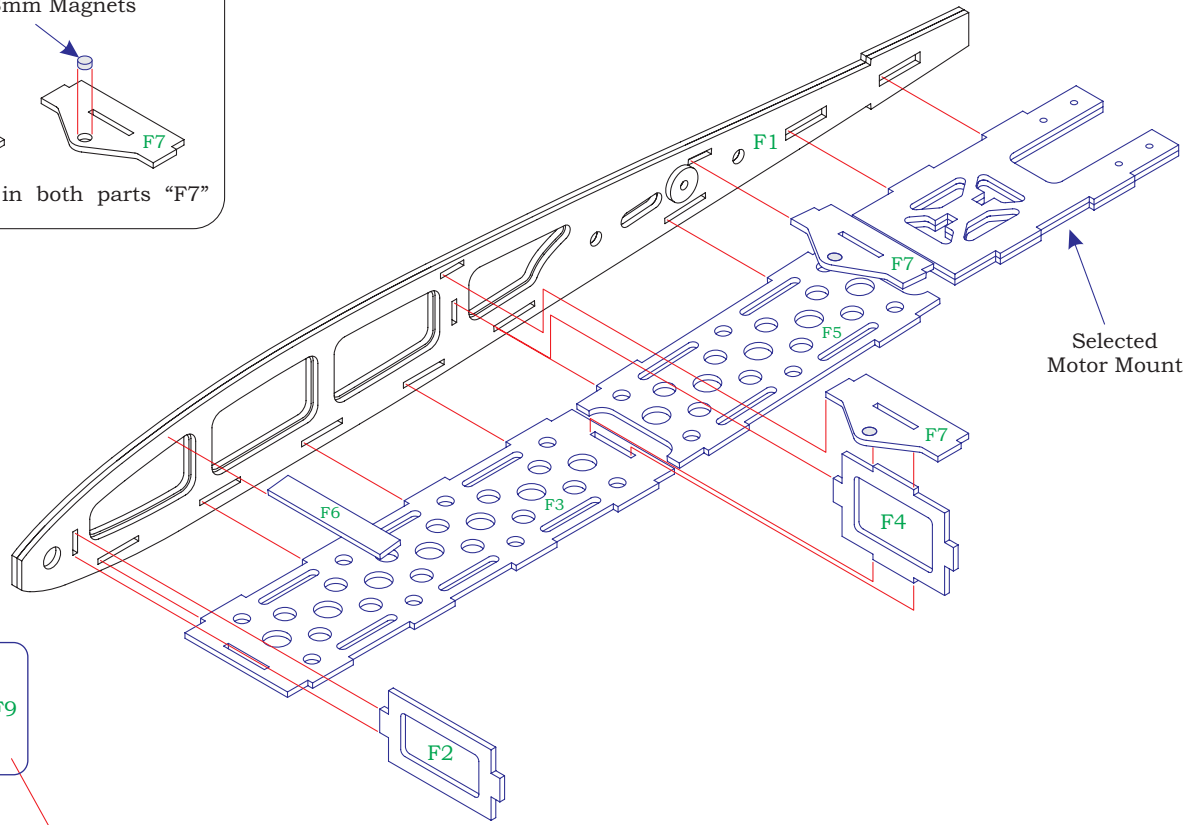
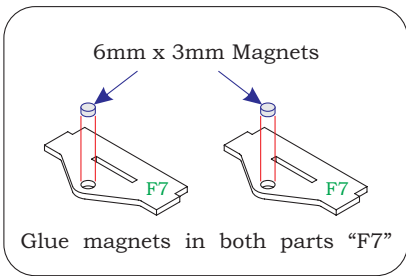


In-Runner Mount

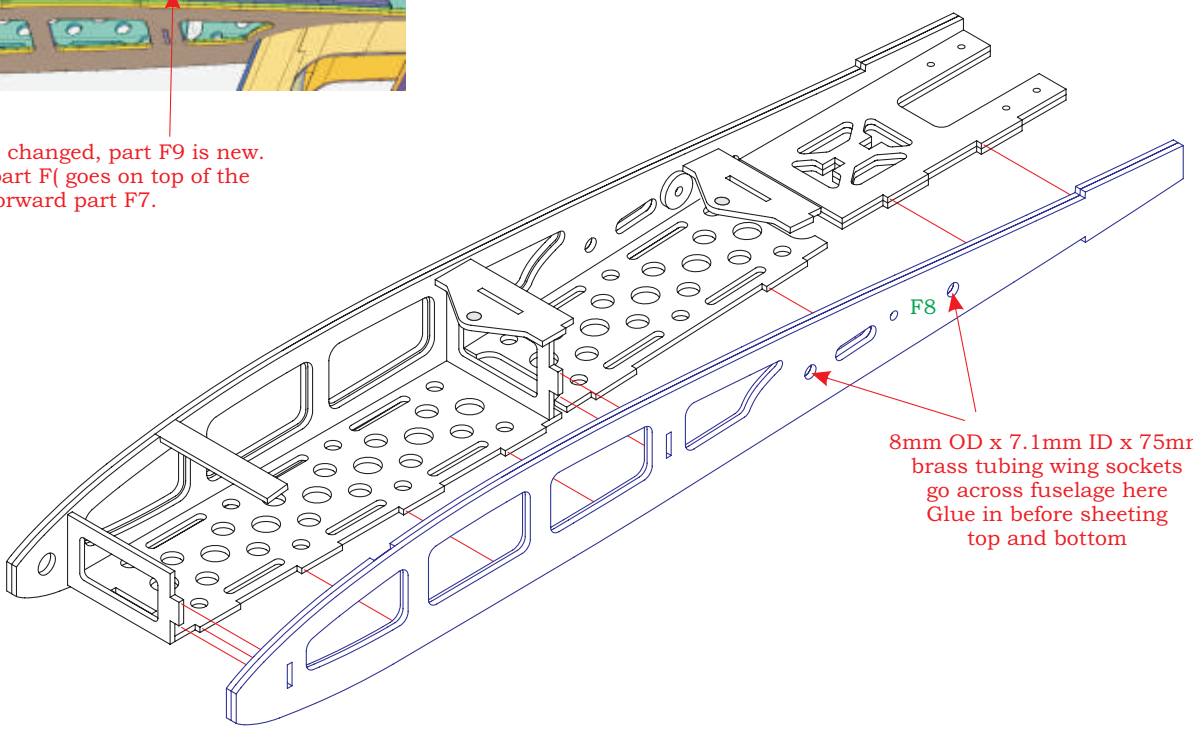


Out-Runner Mount



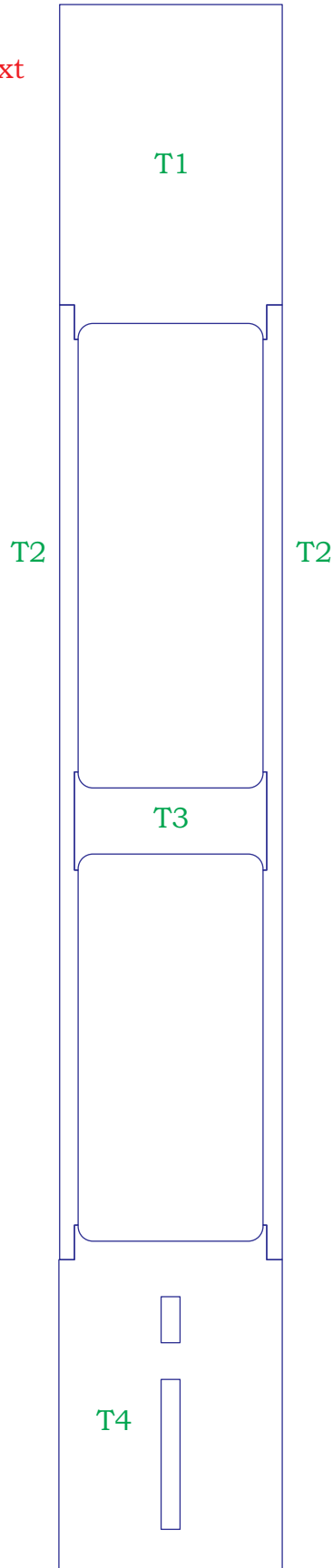


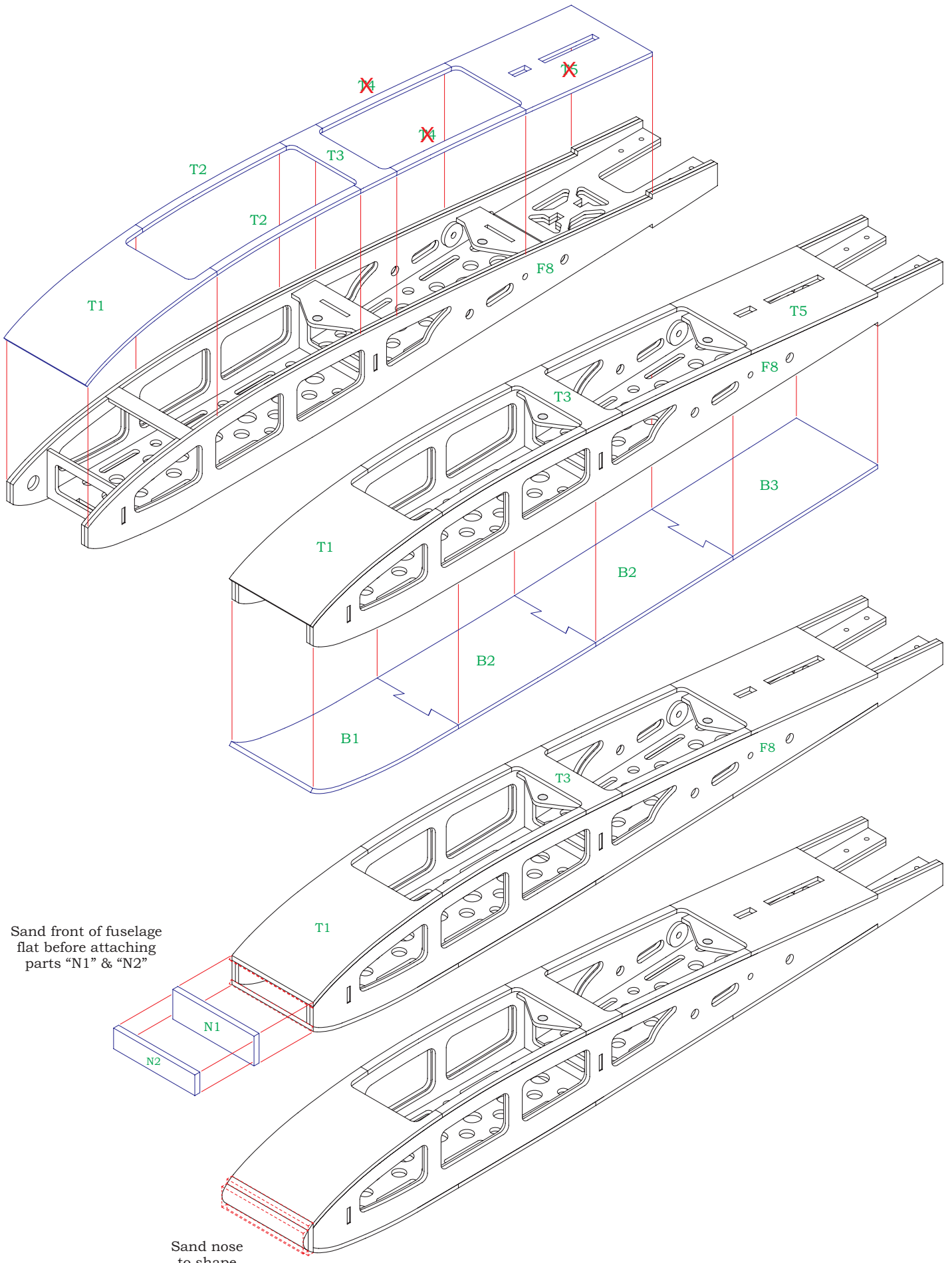
Part F6 has changed, part F9 is new.
The new part F(goes on top of the forward part F7.



8mm OD x 7.1mm ID x 75mm
brass tubing wing sockets
go across fuselage here
Glue in before sheeting
top and bottom

Top Sheeting has changed.
Use this layout instead of the
part numbers shown on the next
page!

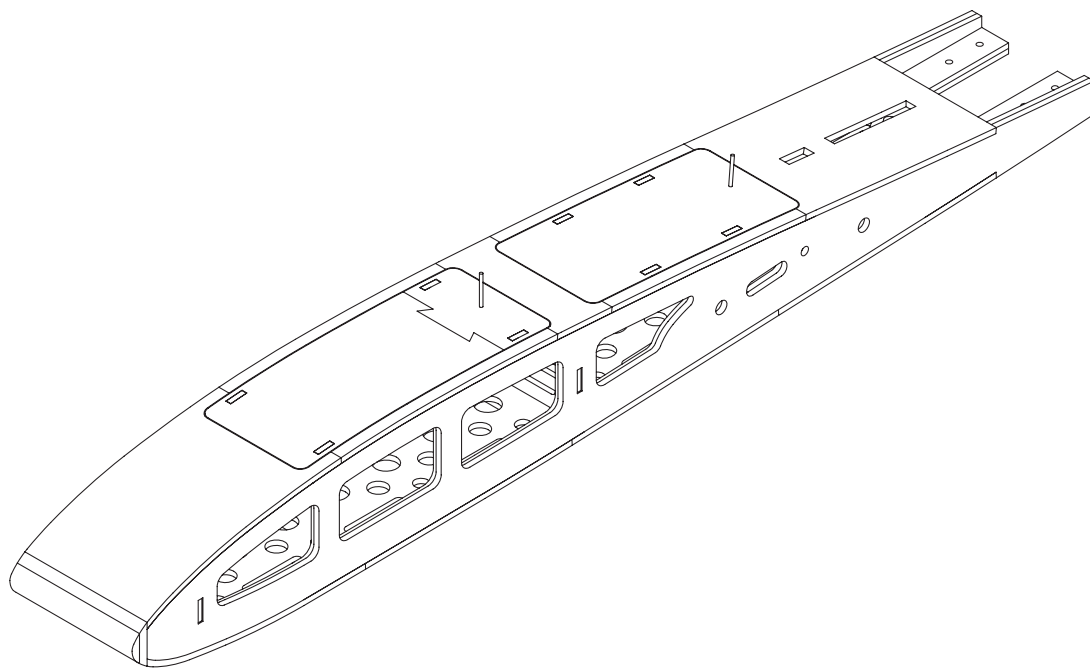
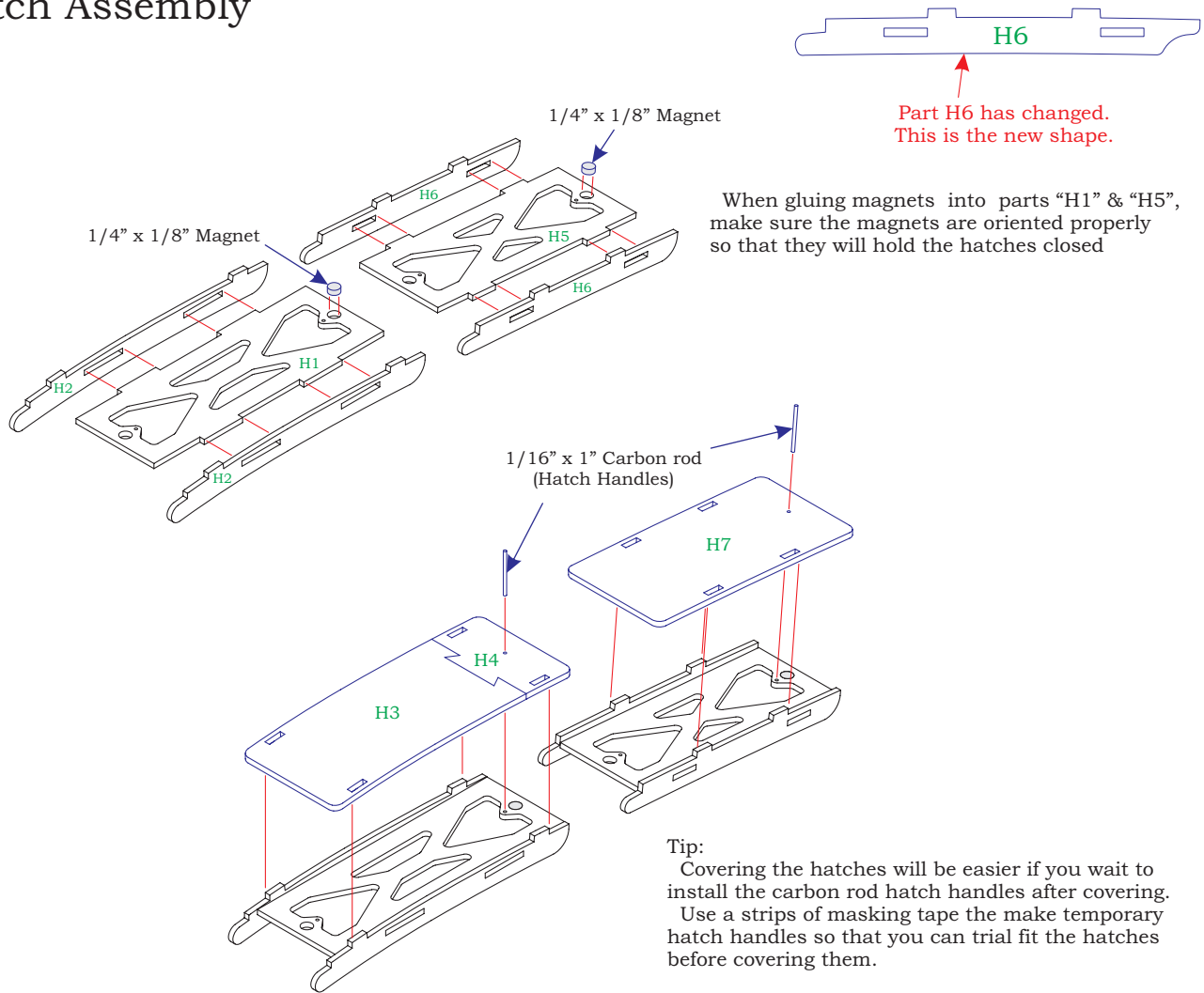




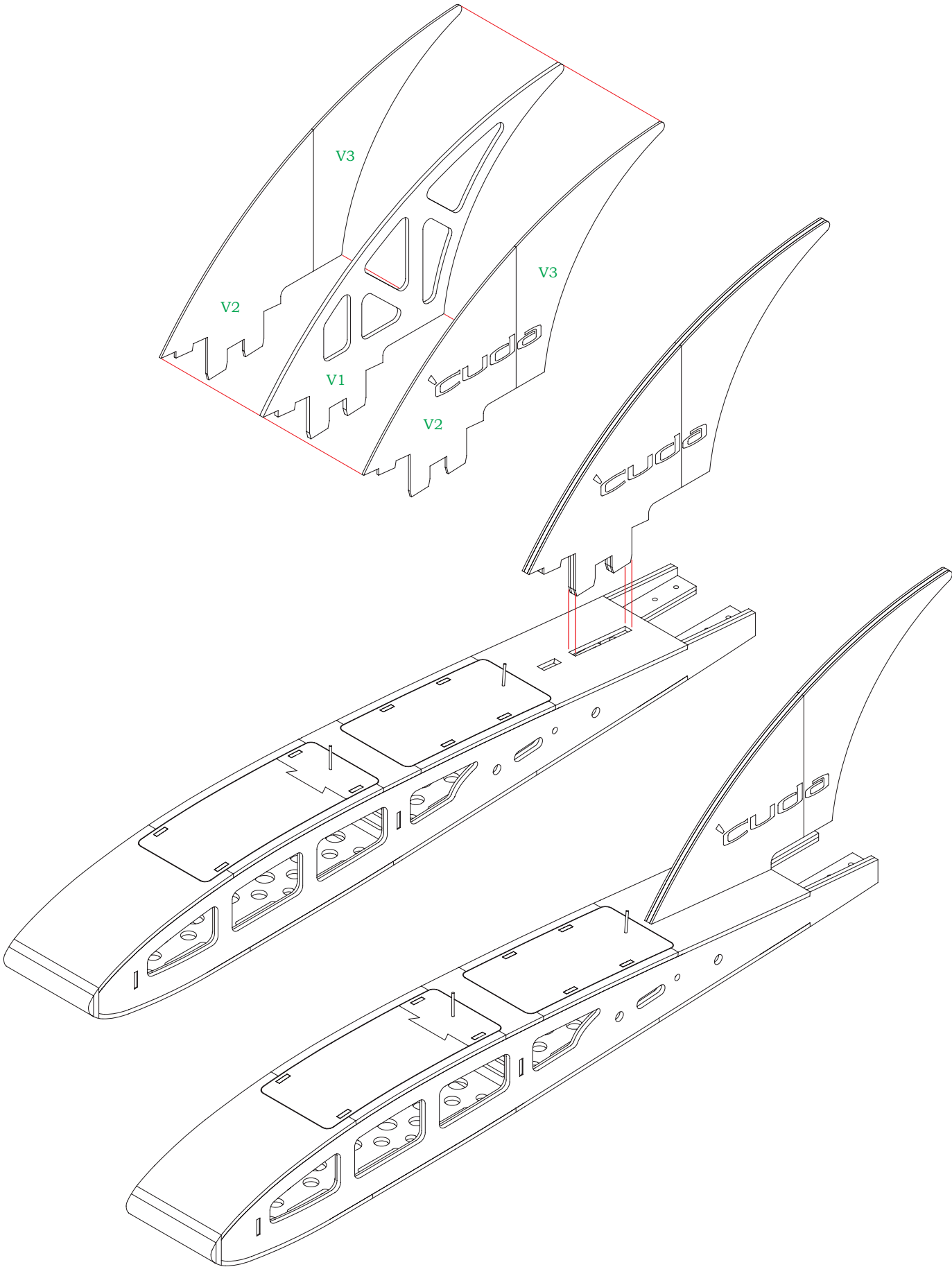
Sand front of fuselage flat before attaching parts "N1" & "N2"

Sand nose to shape

Hatch Assembly

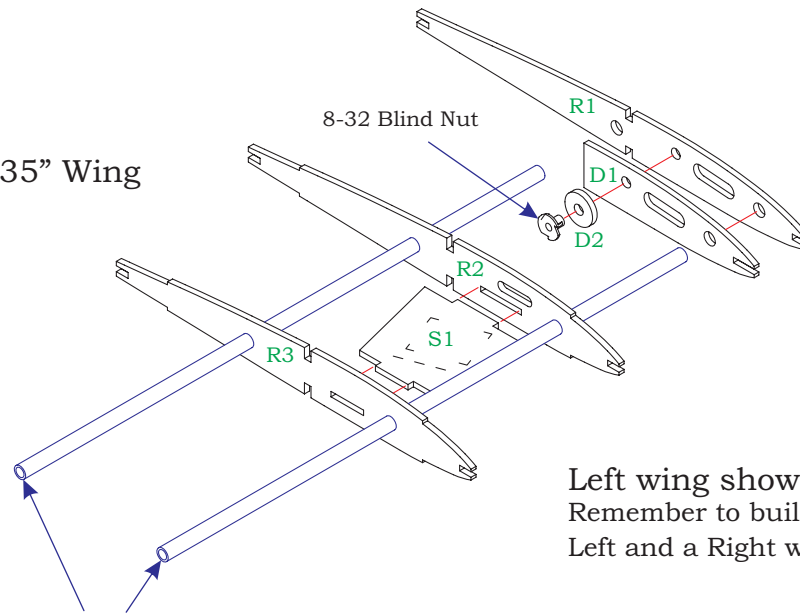


Vertical Fin Assembly



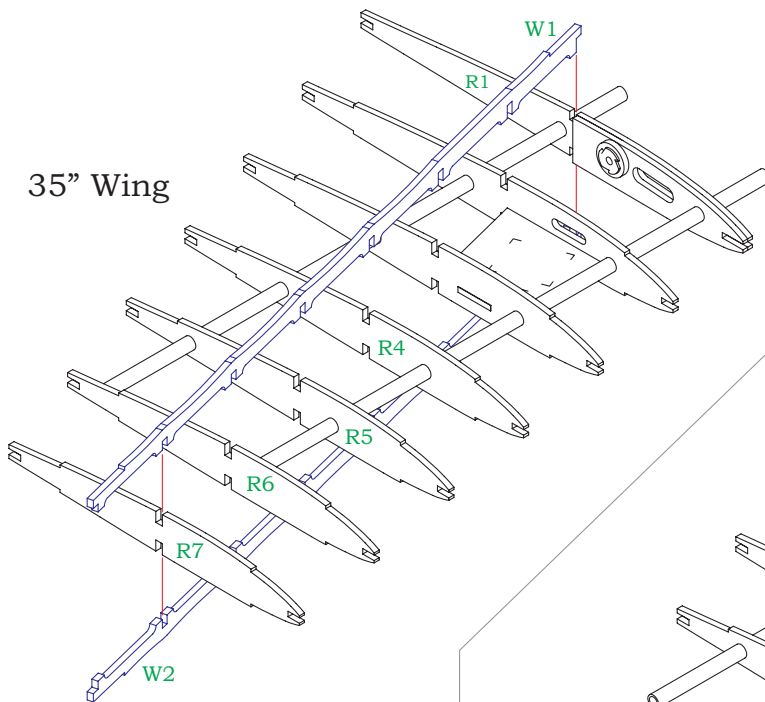
Wing Assembly

26" & 35" Wing

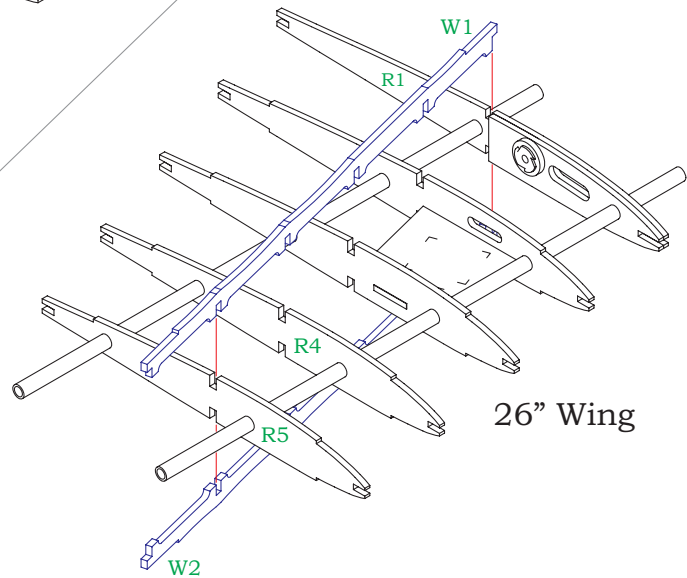


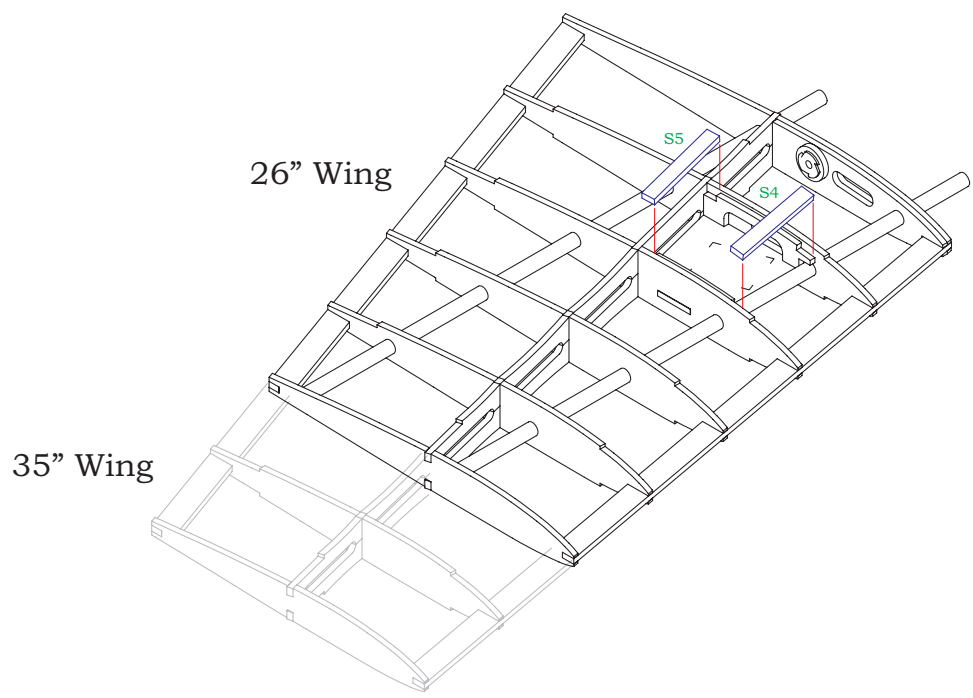
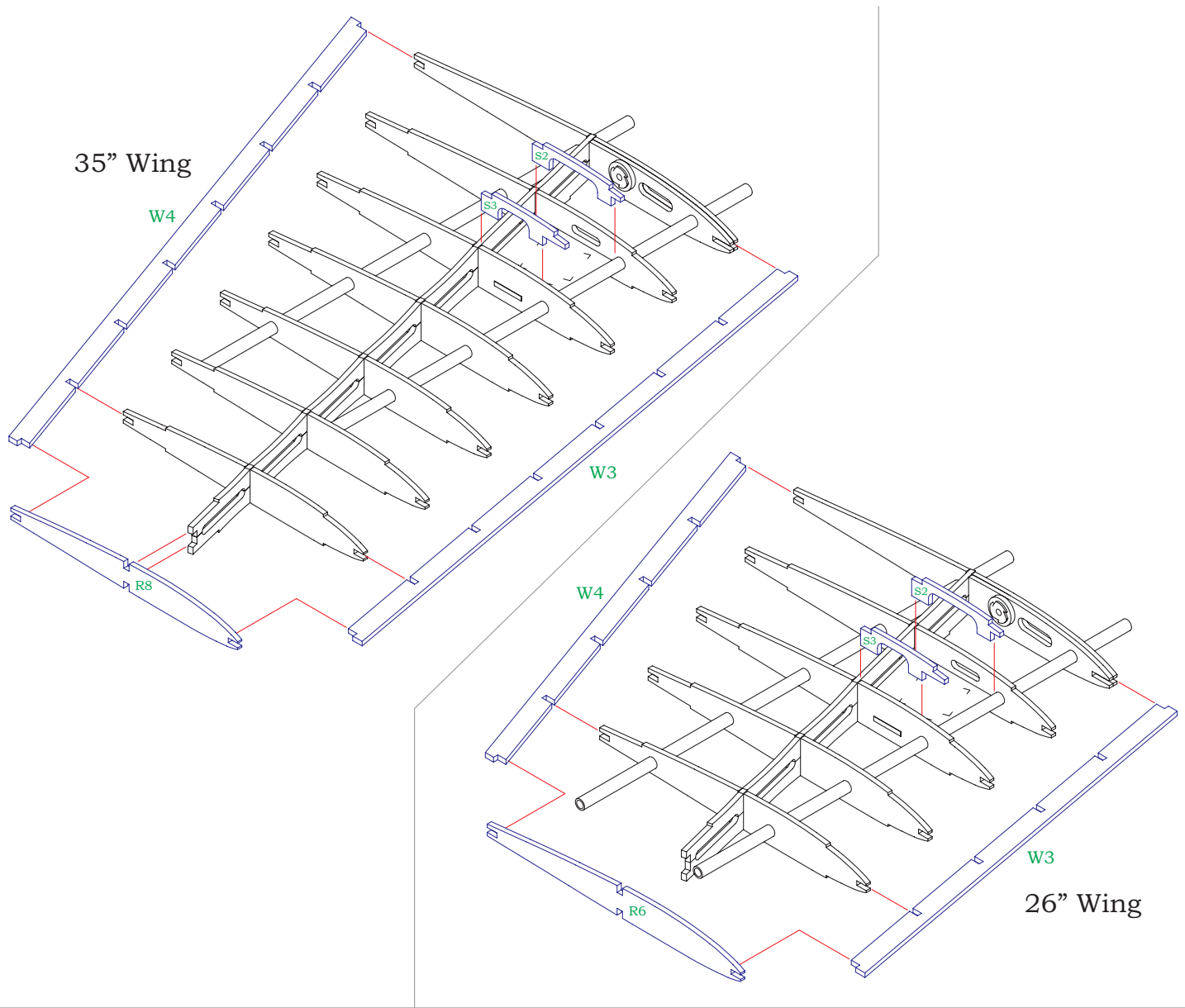
Left wing shown.
Remember to build a
Left and a Right wing.

35" Wing

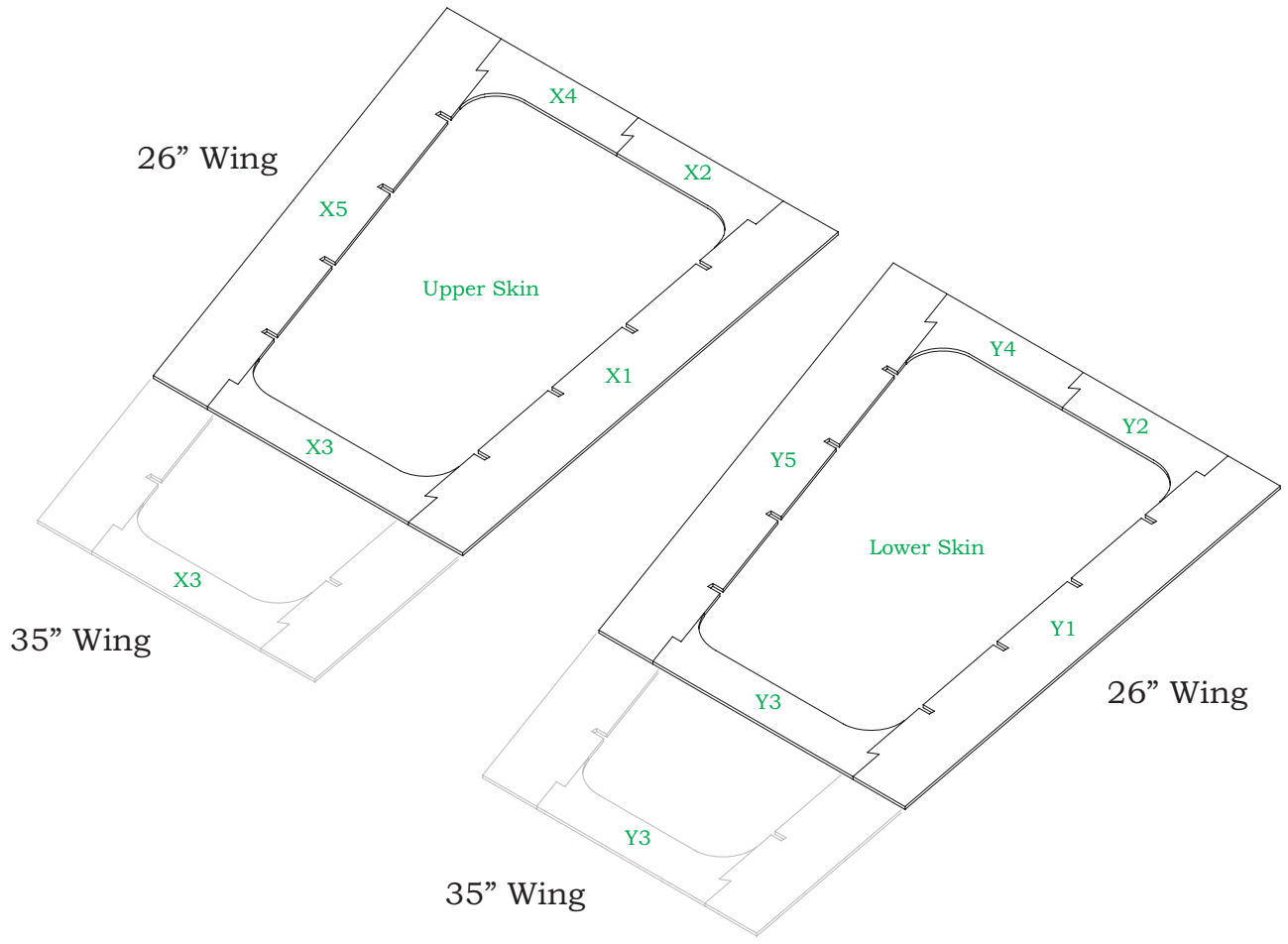
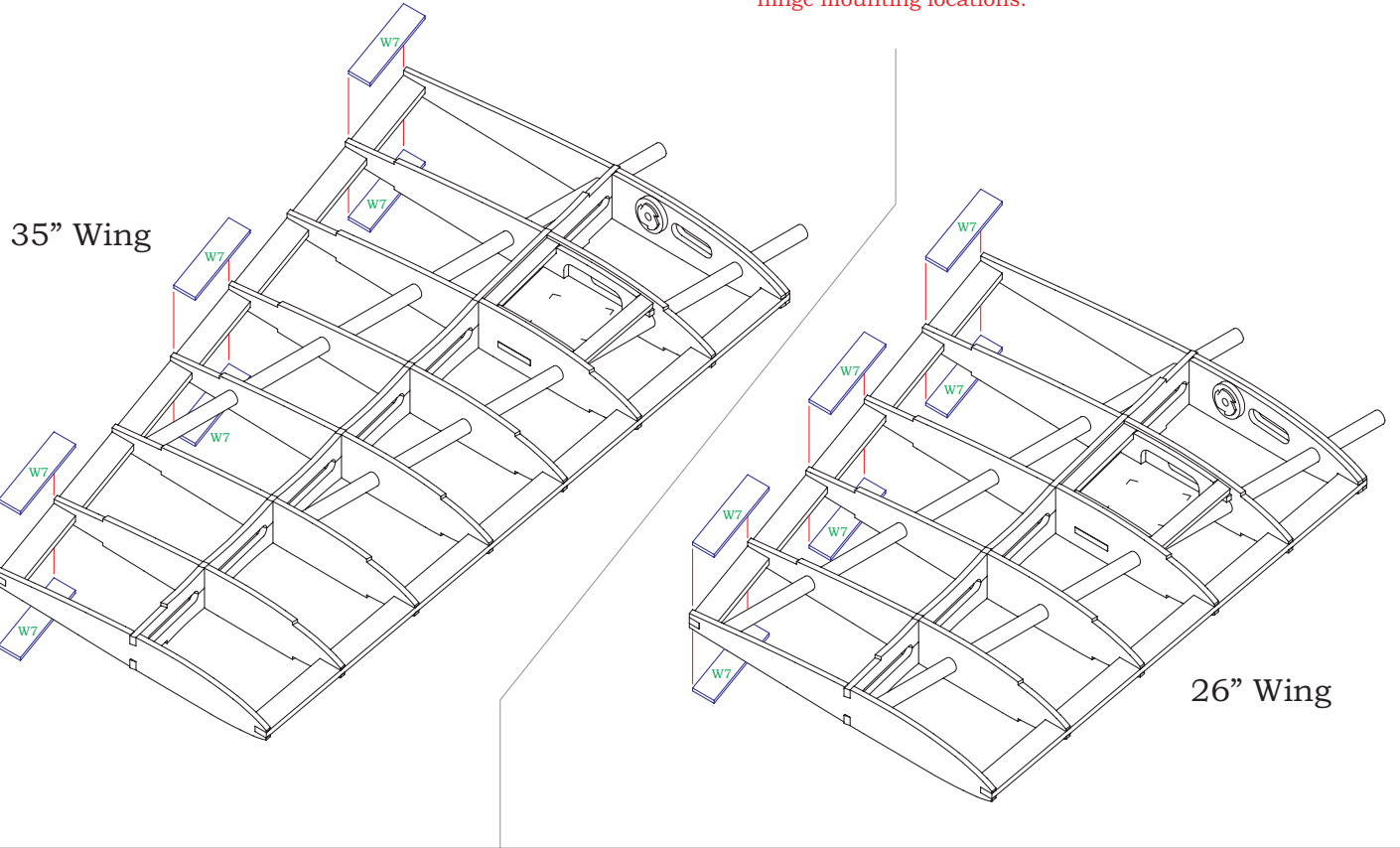


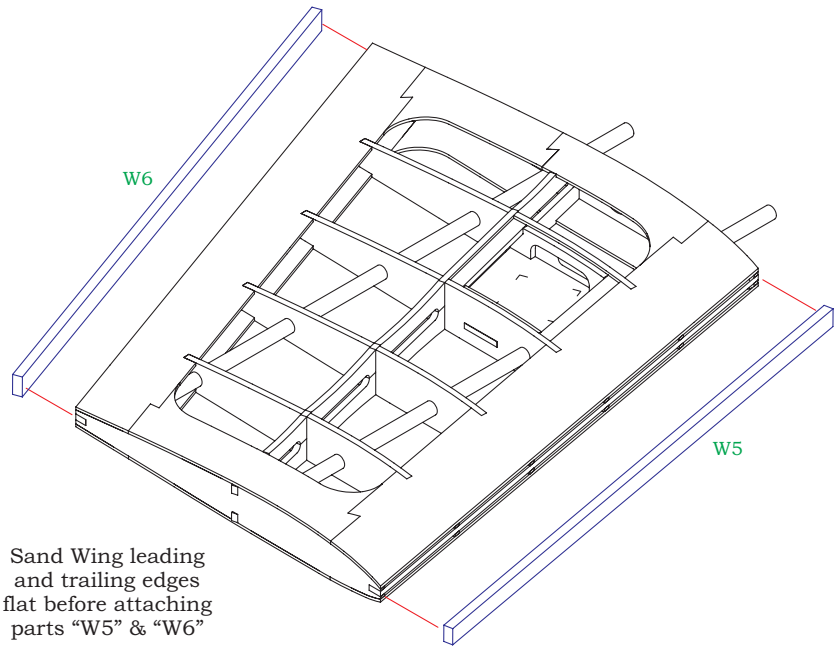
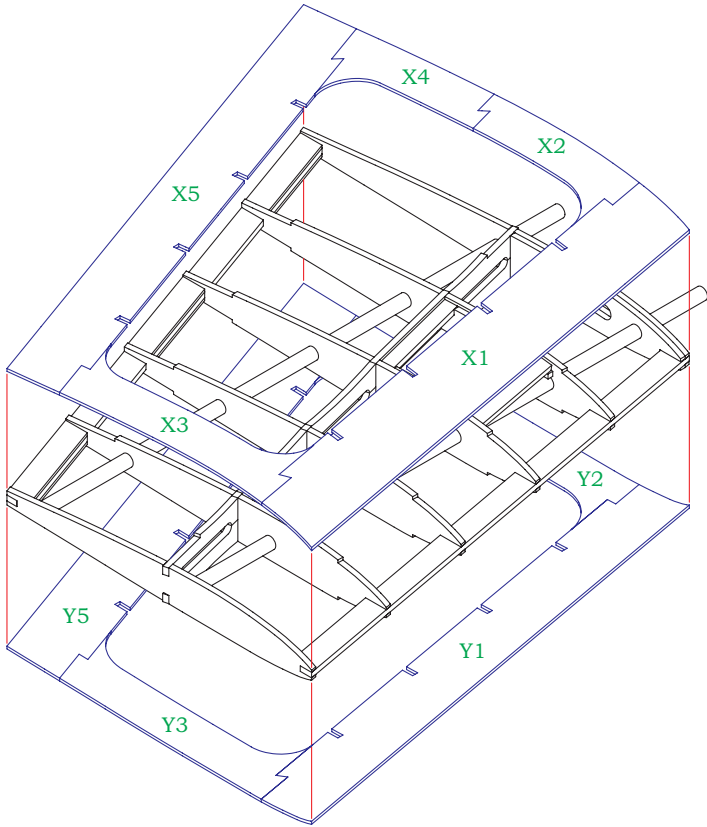
26" Wing





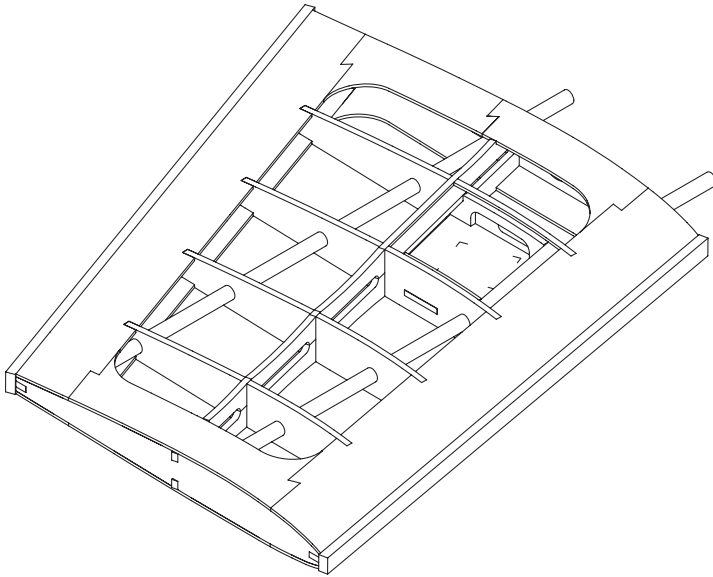
Parts W7 are intended to reinforce the hinge mounting locations.



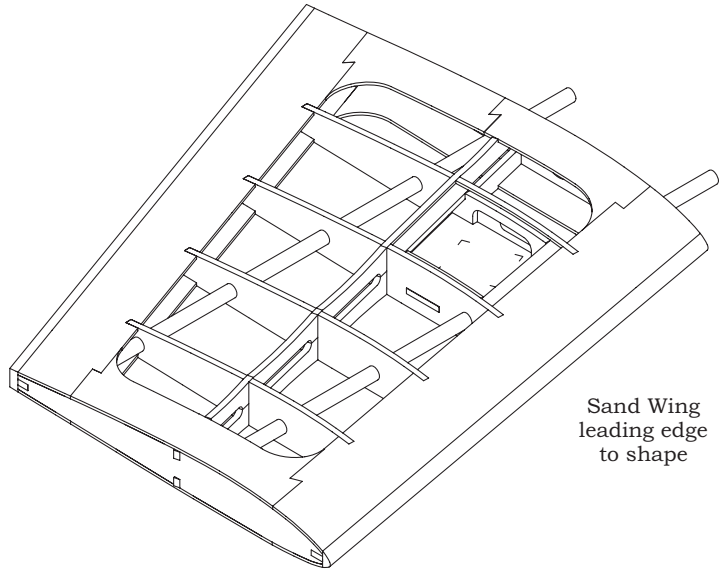


Sand Wing leading
and trailing edges
flat before attaching
parts "W5" & "W6"

Wing tip cap ribs. Glue on after shaping LE & TE then sand to shape.

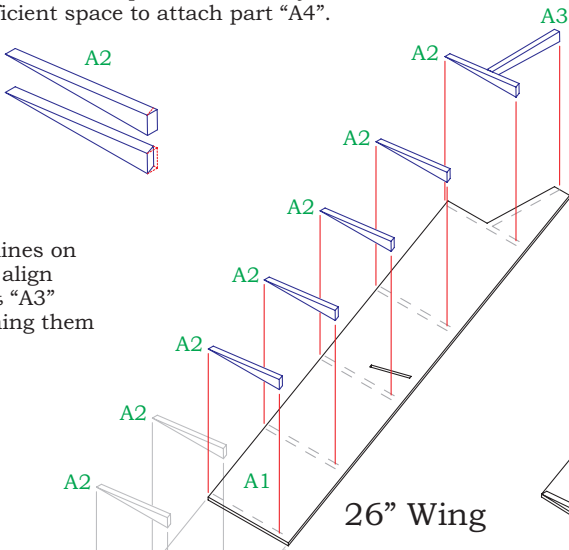


Sand Wing trailing edge to shape

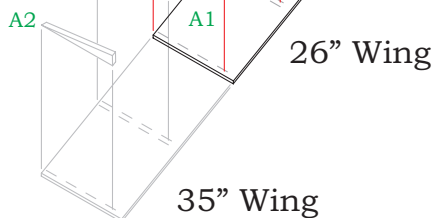


Sand Wing leading edge to shape

Aileron ribs (Parts "A2") should be beveled slightly at the thick end prior to assembly to allow sufficient space to attach part "A4".

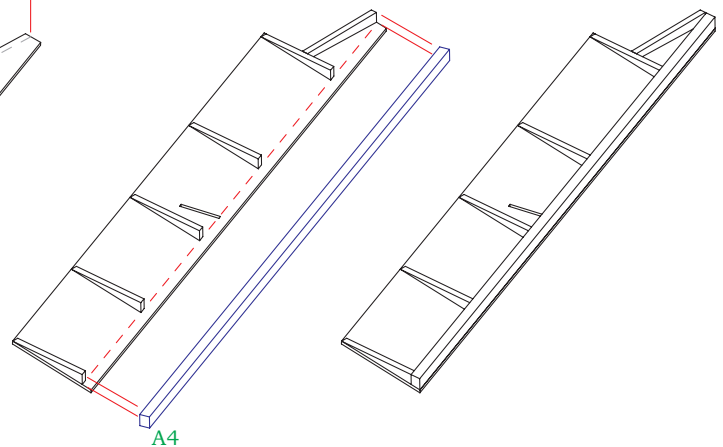


Use etched lines on part "A1" to align parts "A2" & "A3" when attaching them to "A1".

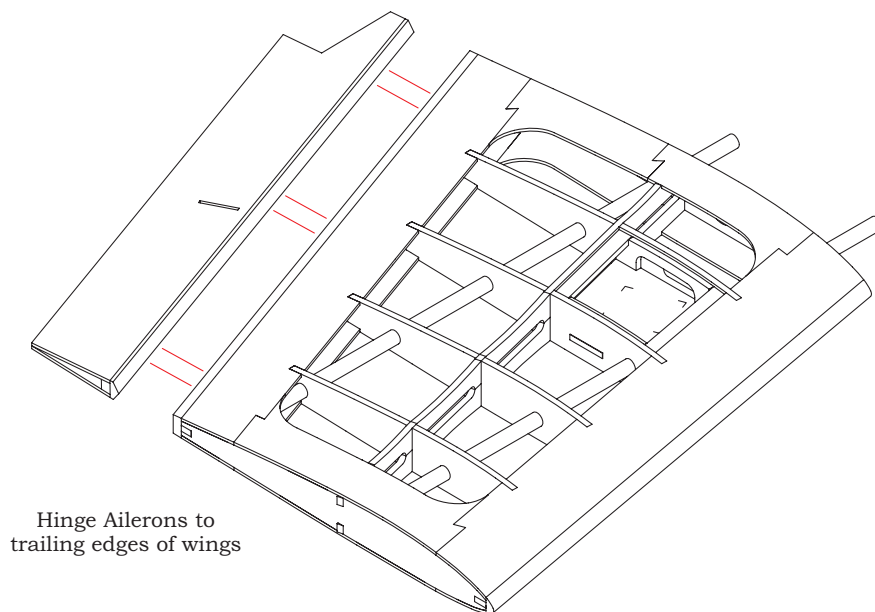
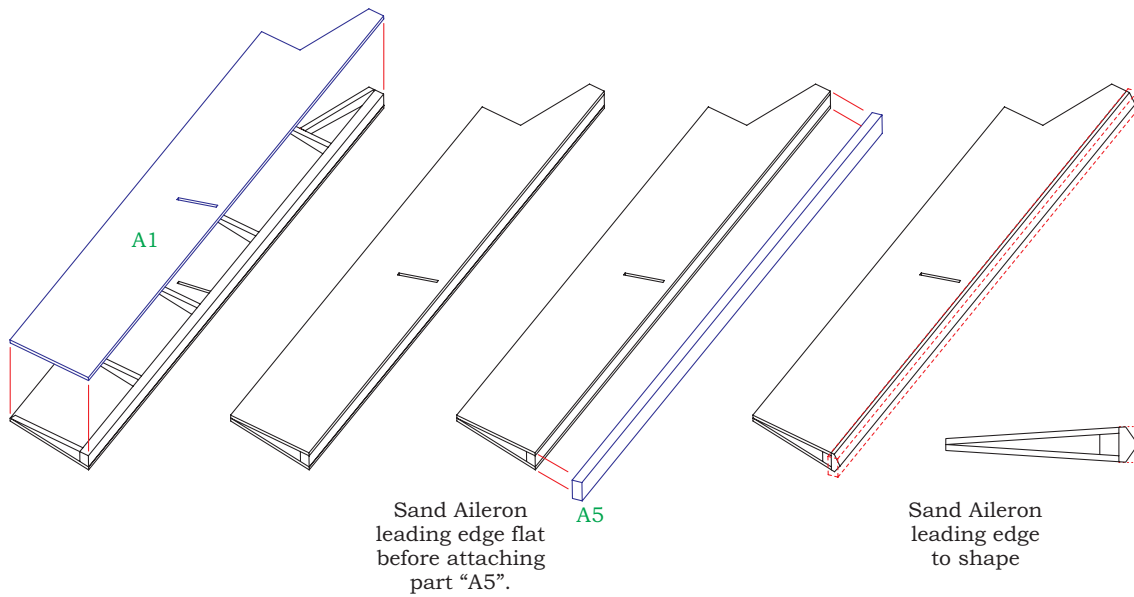


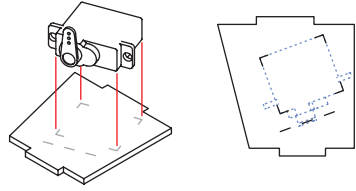
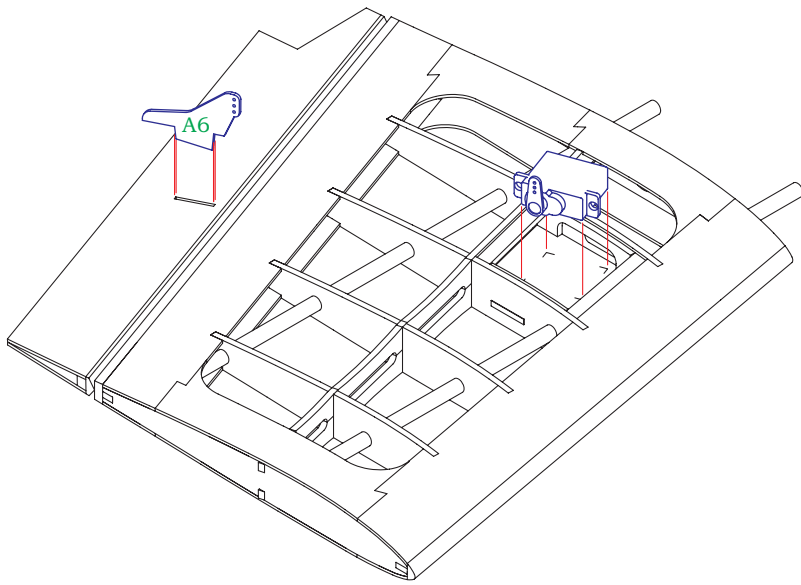
26" Wing

35" Wing

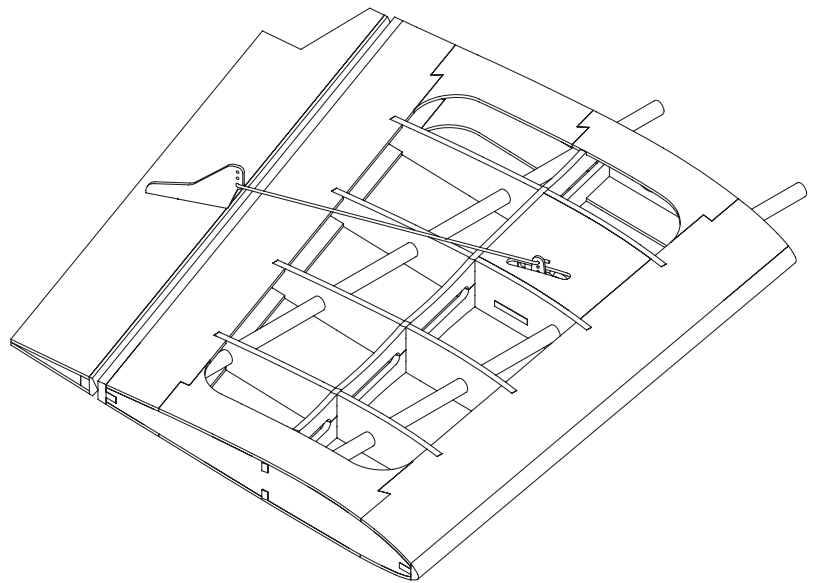
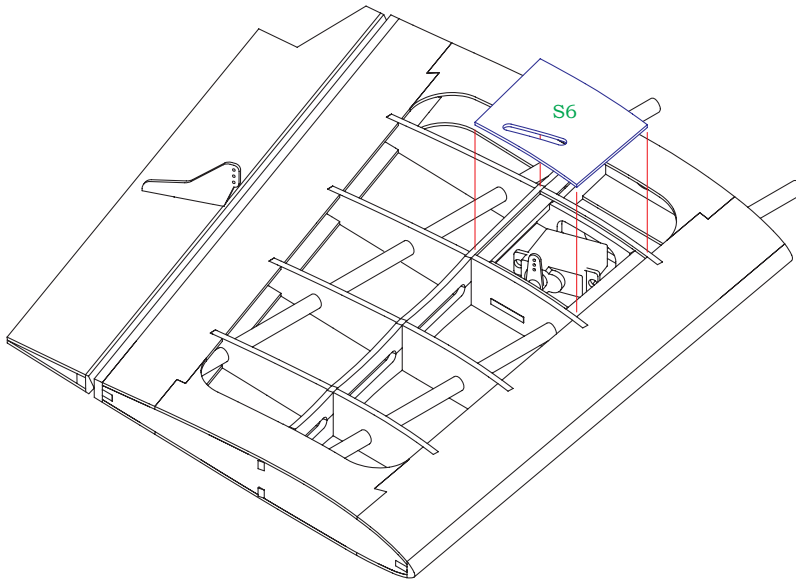


A4

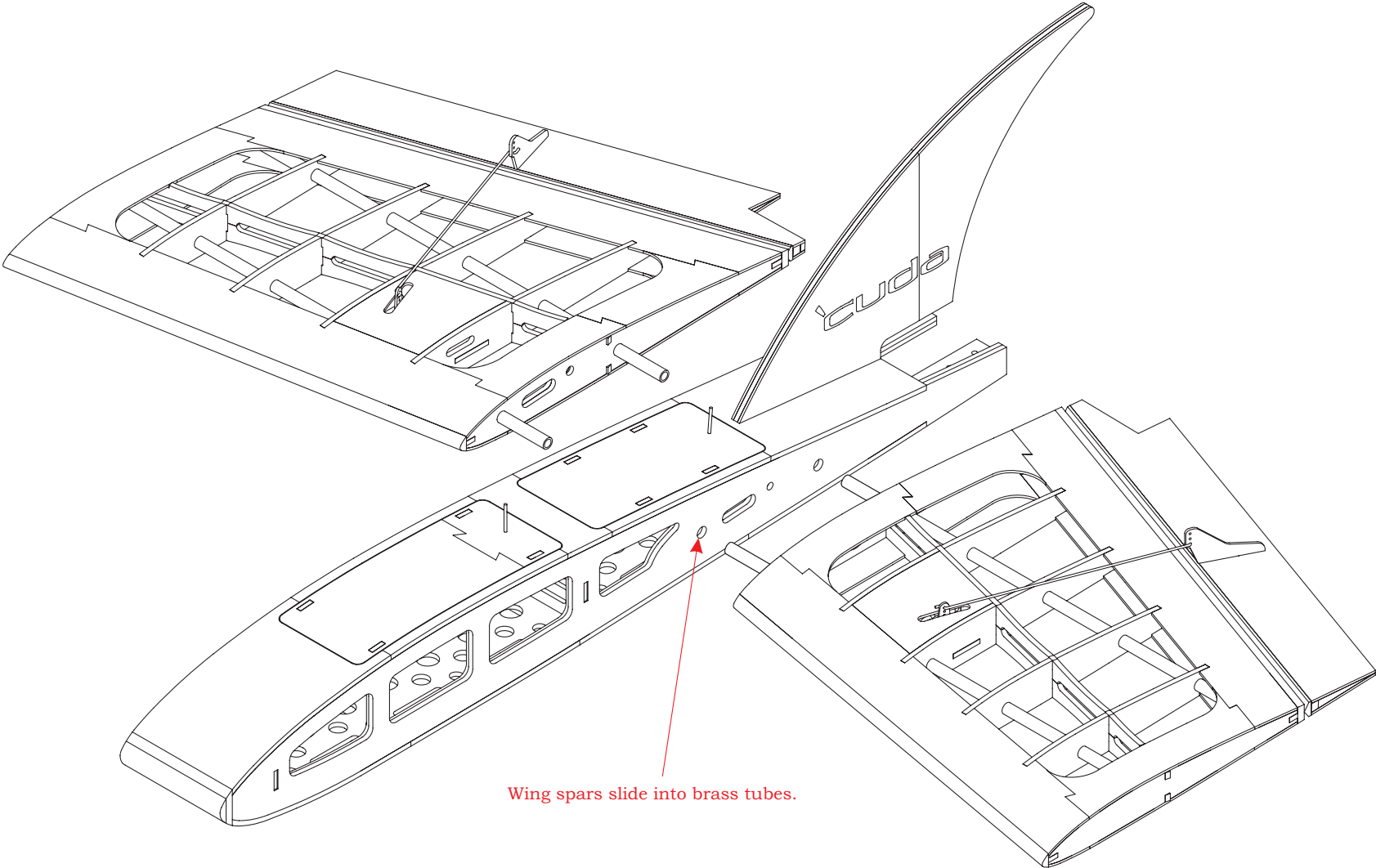




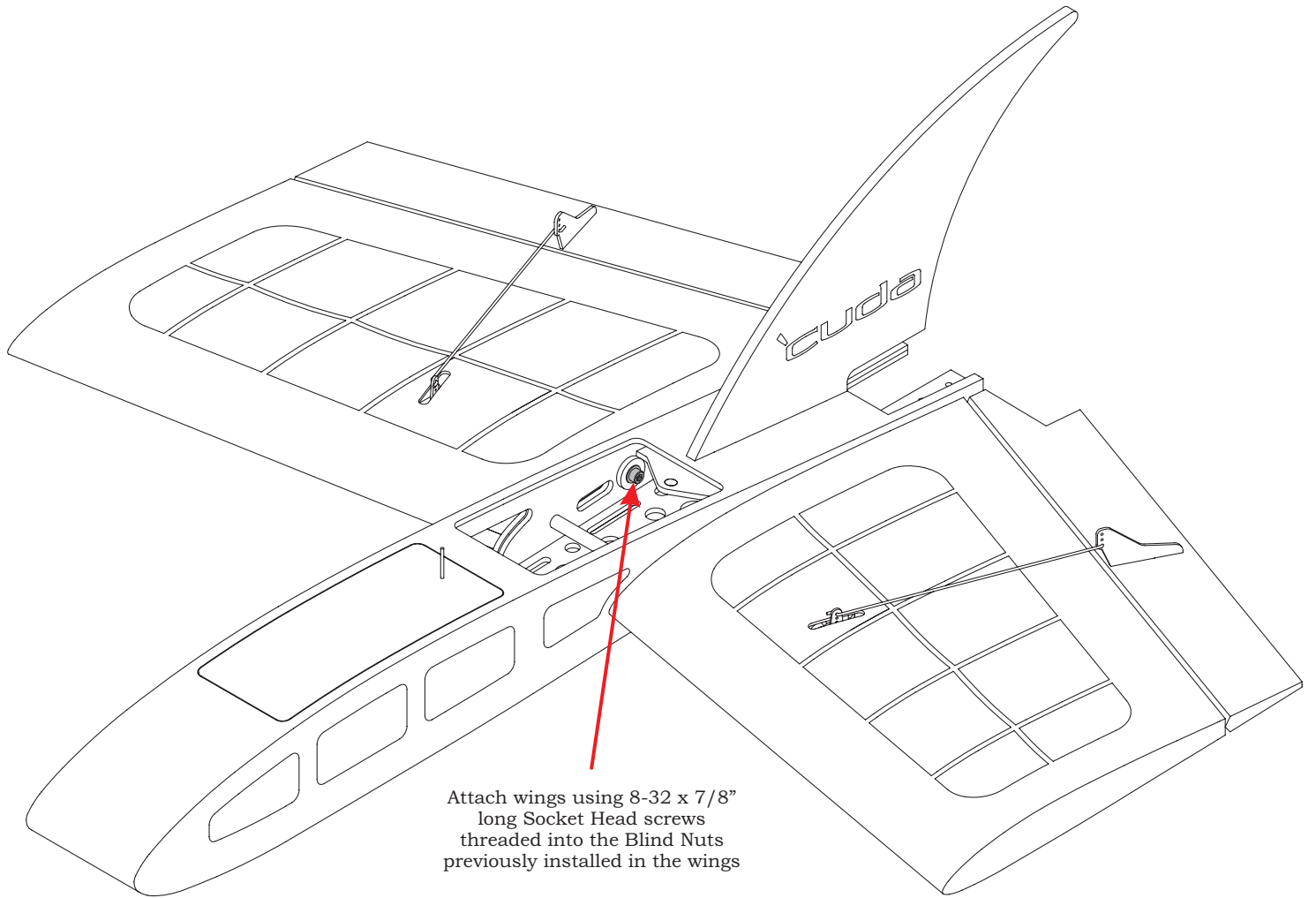
Use etch marks for proper orientation when attaching servos to part "S1"



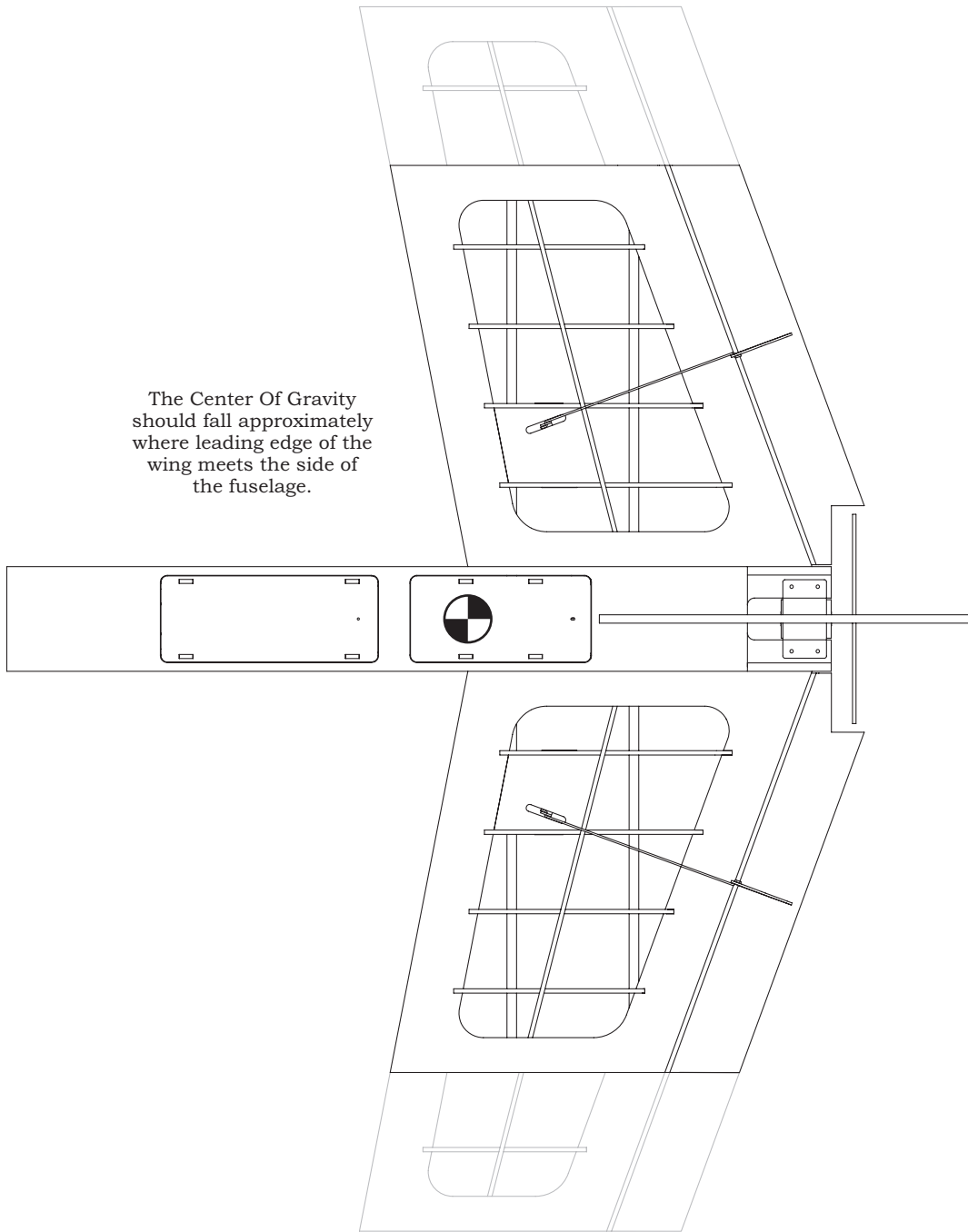
Final Assembly

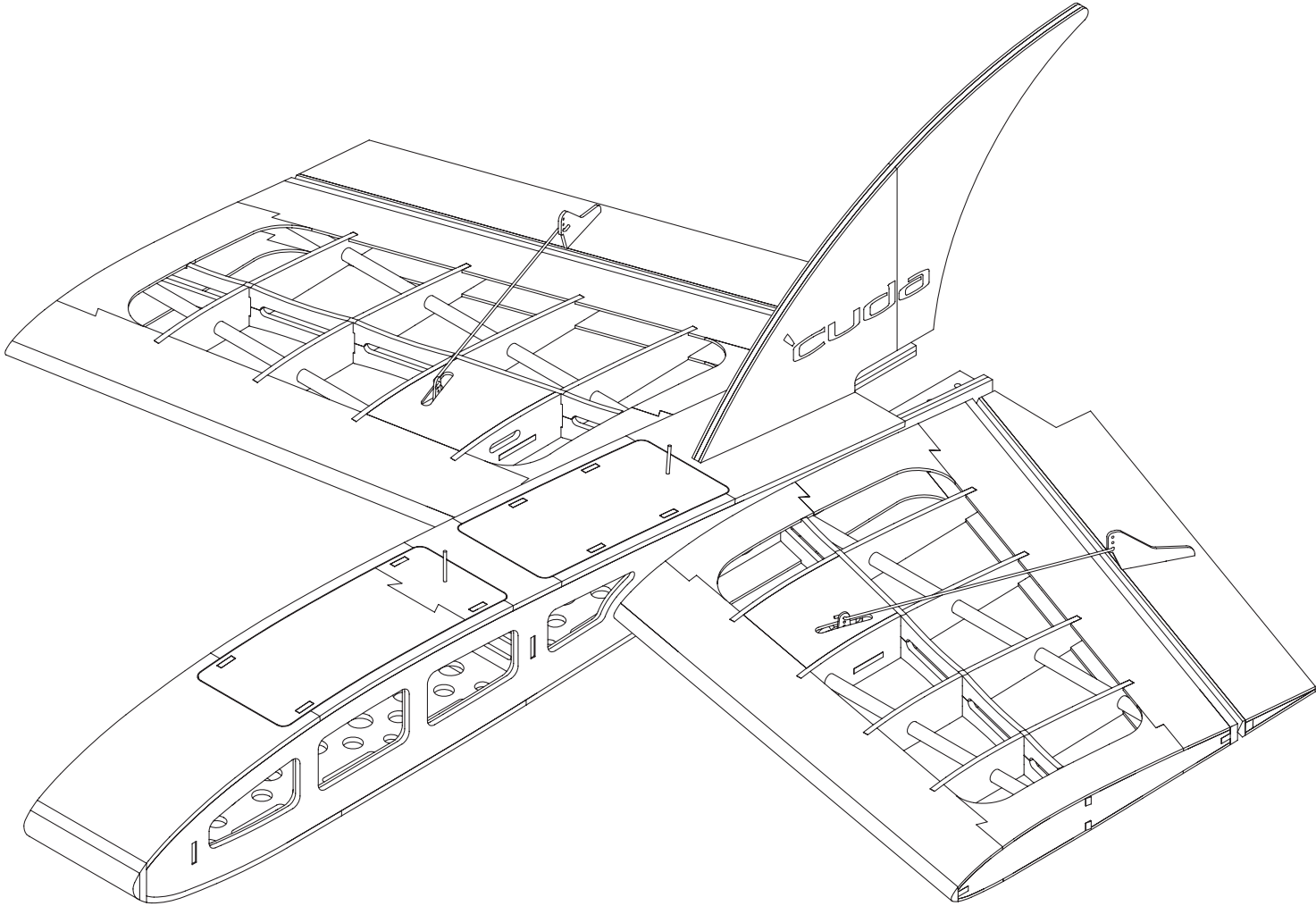


Wing spars slide into brass tubes.



The Center Of Gravity should fall approximately where leading edge of the wing meets the side of the fuselage.





Credits:

“Hey, I gotta’ idea!” : Laine Stahr
“CAD-Fu” : Joel Dirnberger