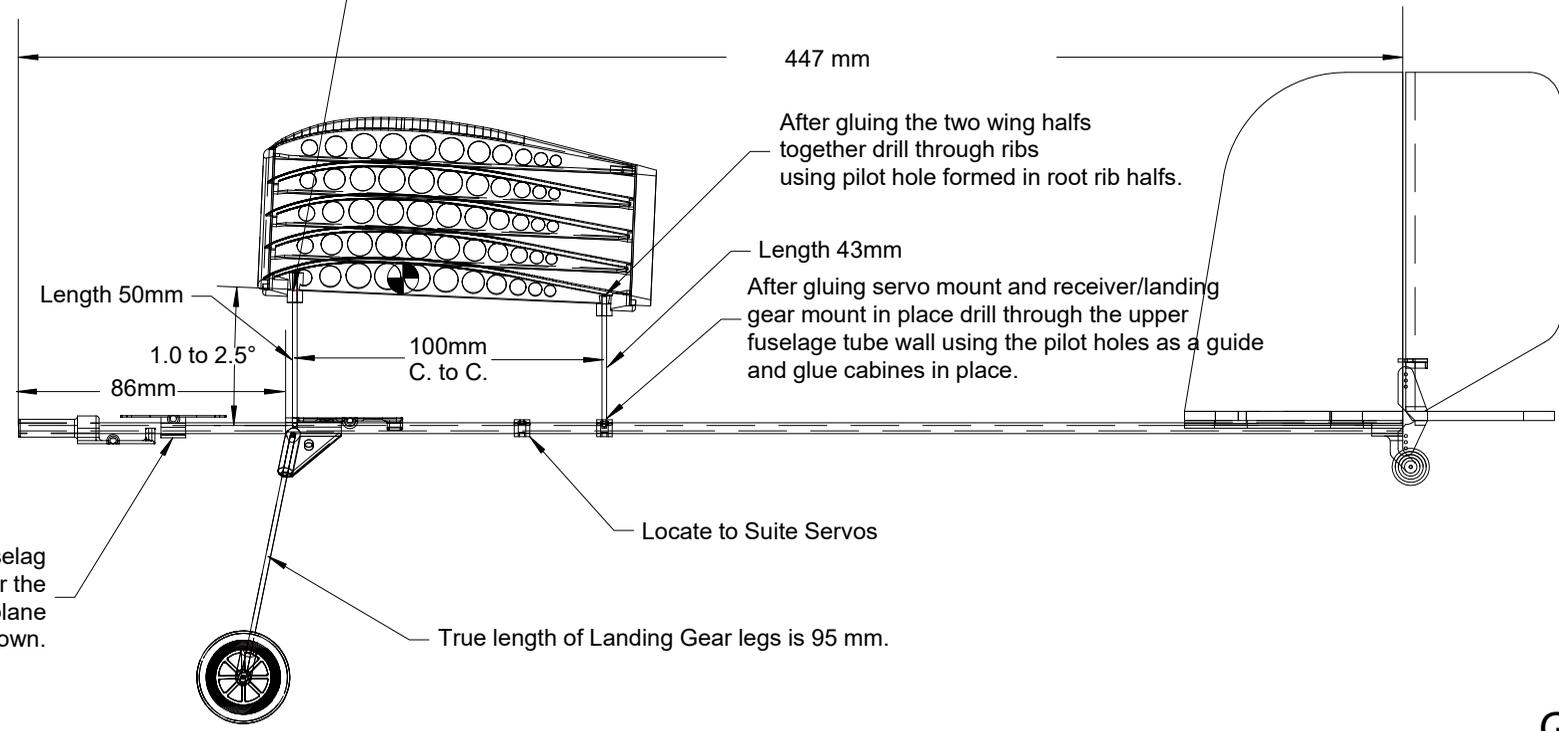
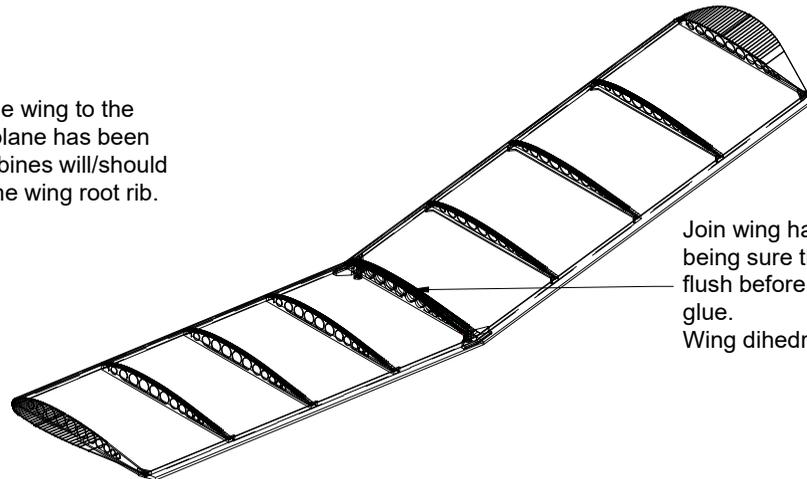


**Gymster V**  
 Designed By Carl Hock  
 26" Wing Span  
 02Feb2017

DO NOT GLUE the wing to the cabins until the plane has been test flown. The cabins will/should be a tight fit into the wing root rib.

Join wing halves by carefully aligning and being sure the two root rib surfces are flush before using Cyanoacrylte thick foam safe glue.  
Wing dihedral is 8 deg. and is built into the root rib.

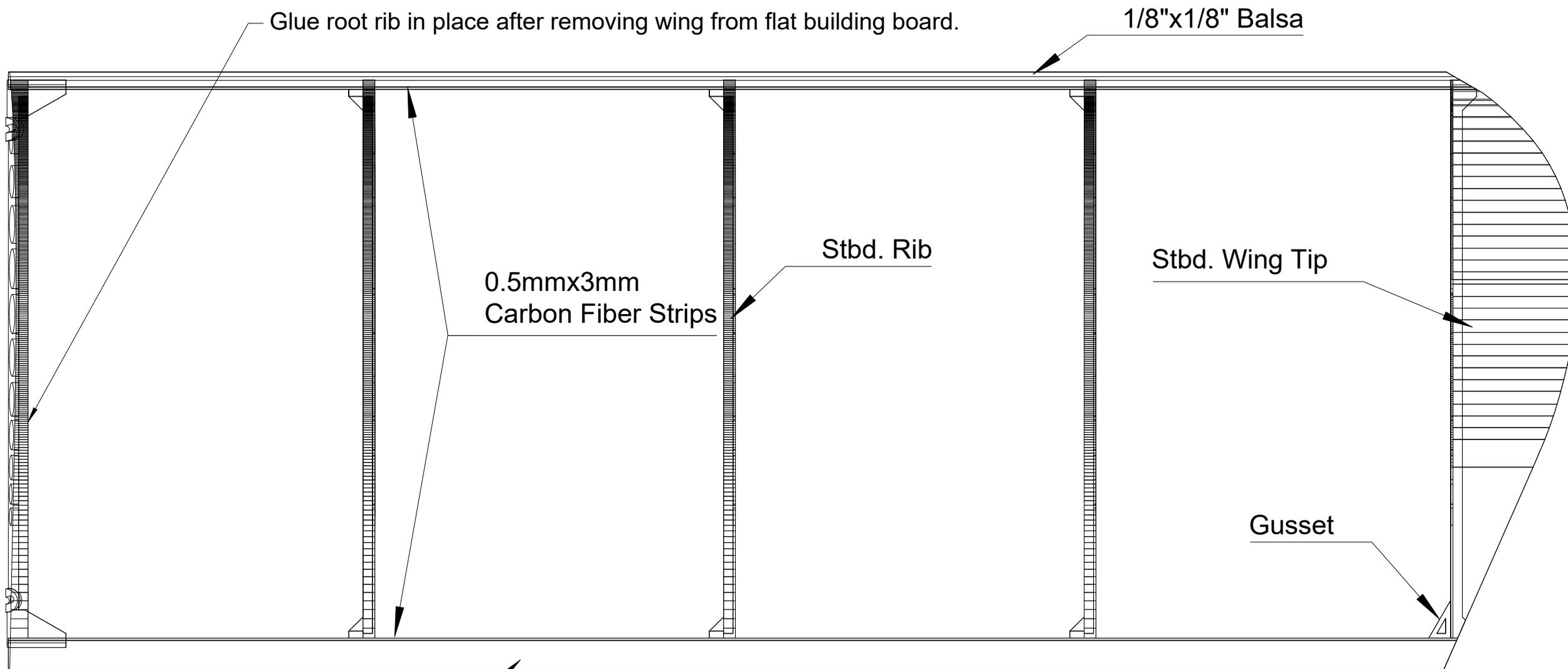


Battery Mount snaps on to fuselag  
It can be glued in place after the  
CG is determined and the plane  
is test flown.

Locate to Suite Servos

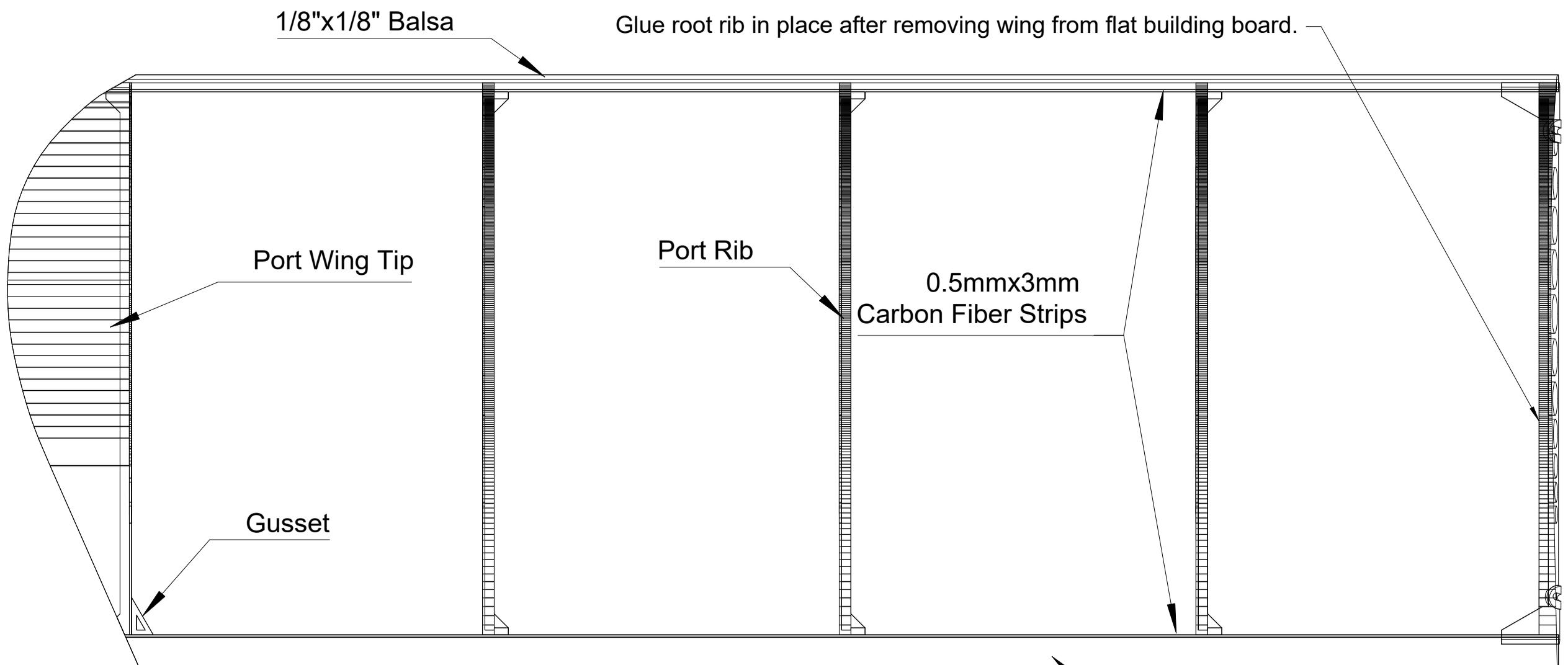
True length of Landing Gear legs is 95 mm.

Gymster V Assembly Notes  
Designed By Carl Hock  
26" Wing Span  
03Feb2017



1/8"x1/4" Balsa

Stbd. Wing Layout  
 Gymster V  
 Designed by Carl Hock  
 02Feb2017



1/8"x1/8" Balsa

Glue root rib in place after removing wing from flat building board.

Port Wing Tip

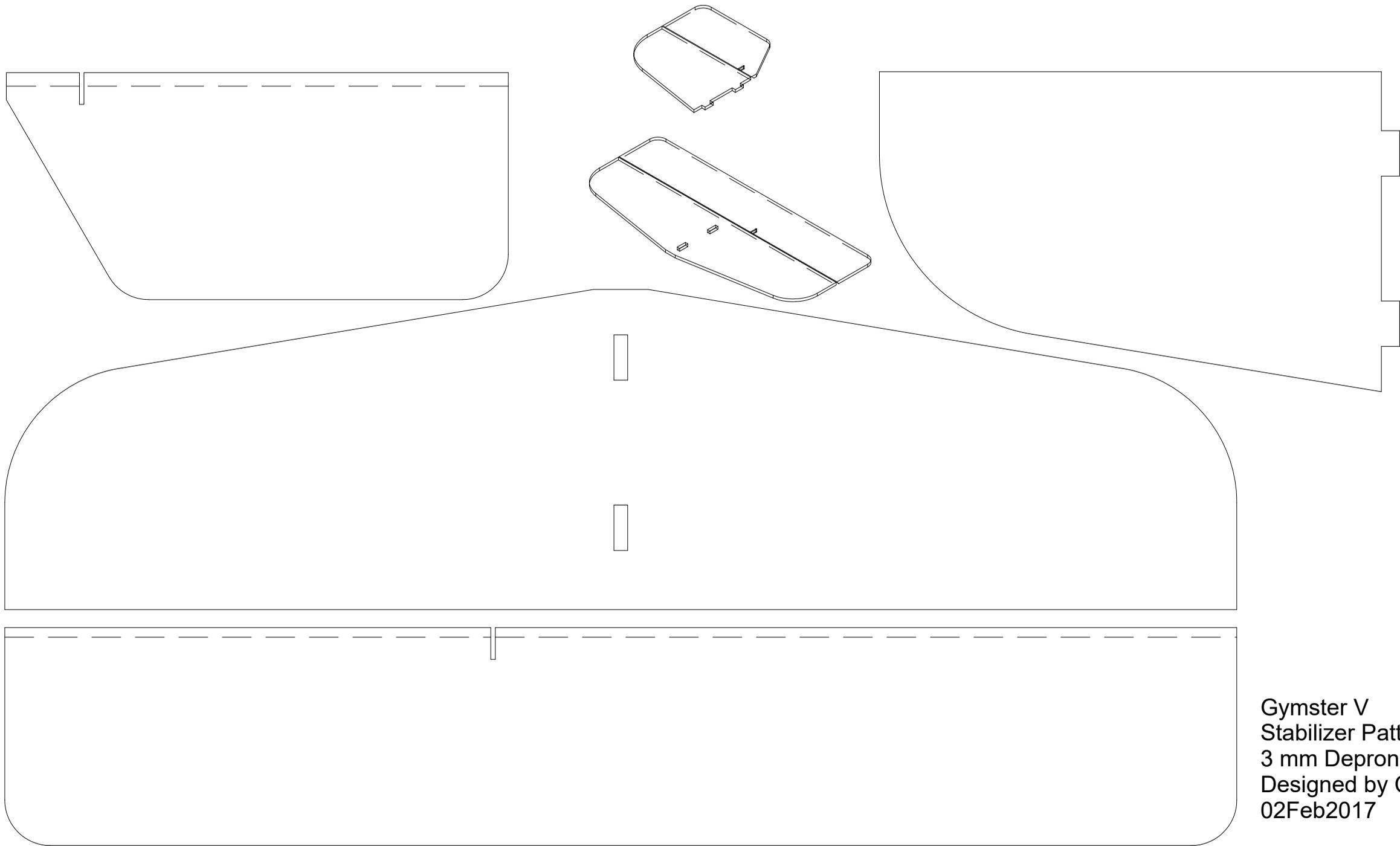
Port Rib

0.5mmx3mm  
Carbon Fiber Strips

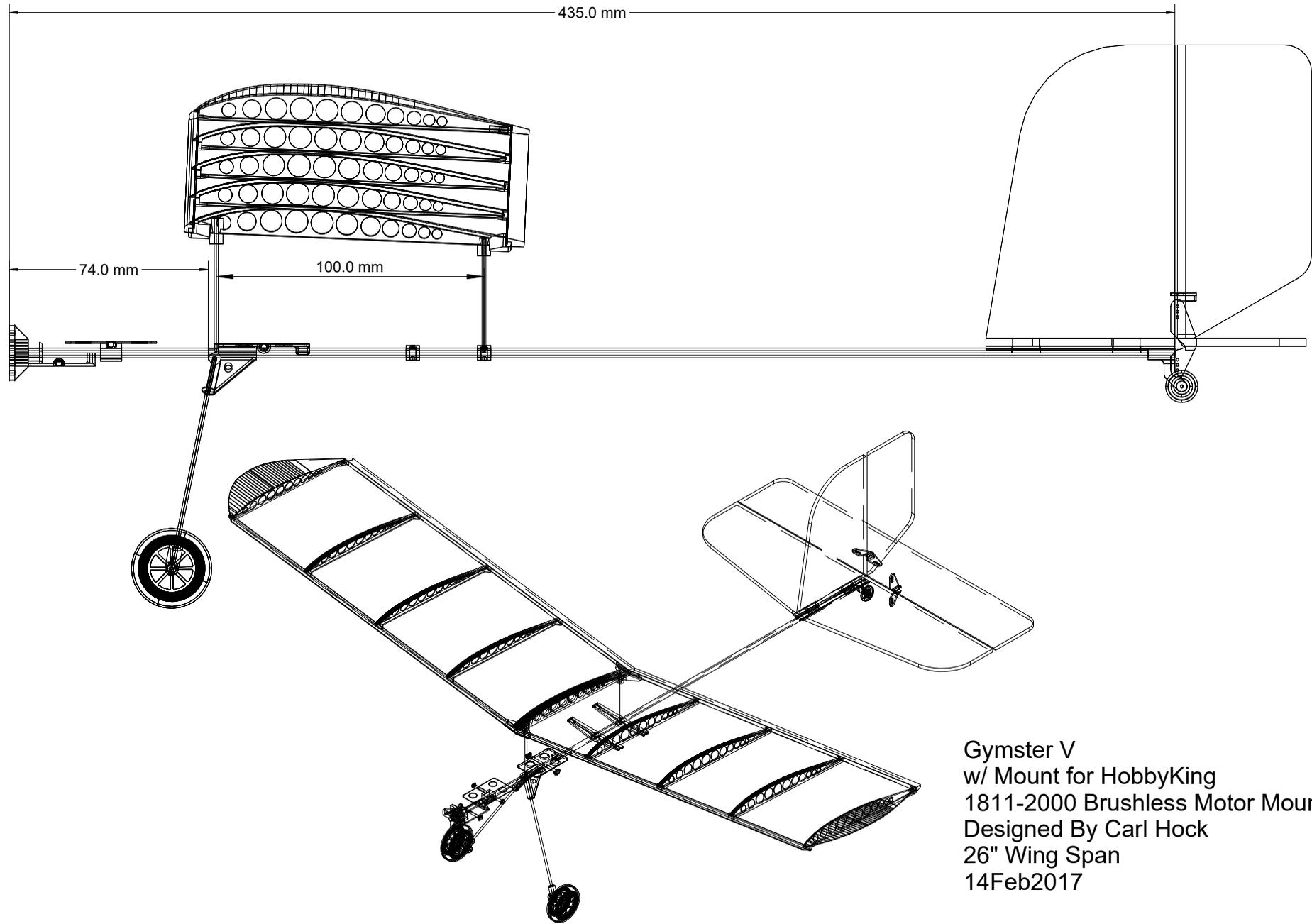
Gusset

1/8"x1/4" Balsa

Port Wing Layout  
Gymster V  
Designed by Carl Hock  
02Feb2017



Gymster V  
Stabilizer Patterns  
3 mm Depron  
Designed by Carl Hock  
02Feb2017



Gymster V  
w/ Mount for HobbyKing  
1811-2000 Brushless Motor Mount  
Designed By Carl Hock  
26" Wing Span  
14Feb2017

# Gymster V

## General Notes:

1. CA foam safe glues is used except as noted on drawings.
2. 6g Servos were used on prototype.
3. A pull pull control system utilizing spider wire fishing line is recommended
4. An electrical power system of 15 to 20 watts plus is recommended as the ready to fly weight of the prototype is 100g (3.6 oz)
5. A 160 mah 2S 30C LiPoly battery was used on the prototype.
6. The wing is covered on the top surface only, i.e. single surface.
7. Polyester synthetic tissue was used for covering on the prototype.
8. Stereo Lithography (.stl) files are provided in the accompanying Zip file for all the 3D printed components.
9. PLA 3D Filament was used to print the plastic components.
10. All 3D printed parts designed to be printed on a flat build surface.
11. Supports are drawn into the component where necessary.
12. All assembly holes printed in the 3D plastic components 3D will need to be reamed or drilled to the correct size.
13. The main wheels are printed in half's and need to be glued to together. The prototype wheels were aligned during gluing using the drill bit used to previously to ream the wheel half's center hole to size.
14. Small rubber bands are used to secure the receiver, motor controller and battery to the model.
15. Consider adding a LED light system to the model as the still night air is very conducive to the enjoyable flying of this model.