Diablo 3D Specs

Wing Span..... 37”
Length.....33.75”
Weight.....12-13oz
Power..... AXI 2212/34
Prop..... GWS 12x4
Ch..... 4
Battery..... 3 Cell-700 to 1350mAh-Li-Poly

Flight System Recommendations

Rx and Servos
* GWS R-4PH 4ch receiver or equivalent
* 4 Waypoint W-084 Micro Servos
or Hitec HS 55
Brushless Motor
* AXI 2212/34 outrunner (Max 3D performance)
Speed Controller
* Phoenix 25amp speed controller
Battery
* 3 Cell 700-1350mAh-11.1v Li-Poly Battery
Prop(s)
* GWS 12x6 Slow Flyer
* APC 12x3.8 electric slow flyer

Materials List

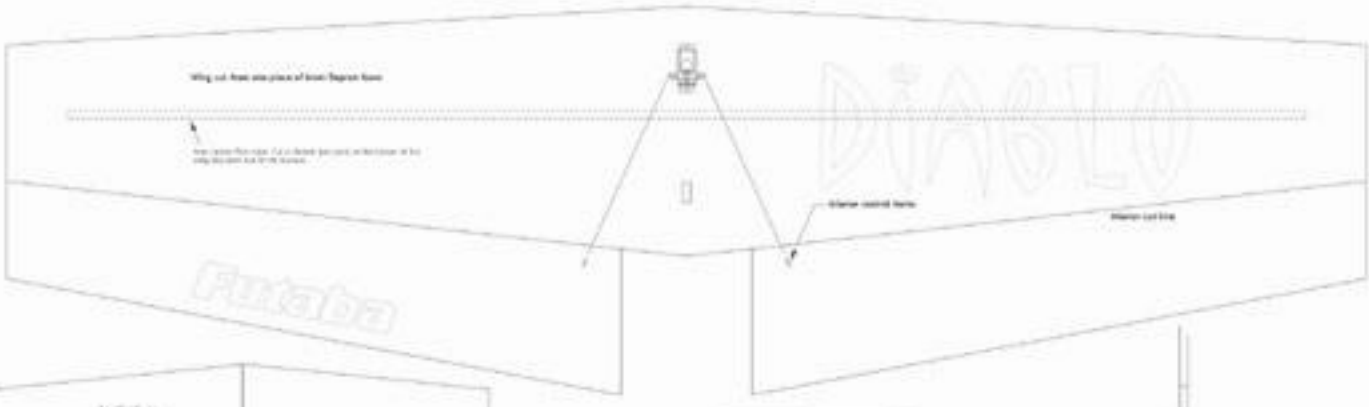
Depron 6mm/3mm White (www.rcfoam.com)
* 30” 4mm & 2mm wrapped carbon fiber tube
* .040 Solid Carbon Rod (push rods + stab support)
or...optional 3mm flat carbon rod tab support
* .080 Solid Carbon Rod (landing gear support)
* Medium or Thick foam friendly CA
* Foam friendly CA accelerator
* JZ Products Super RC “Z’ 56 glue
* 1” Self-sticking Hook & Loop
(Velcro-Industrial Strength) tape
* Clear packing tape
* 4-E-flite Micro Control Horns No. EFLA200
OR...4 Du-Bro Micro Control Horns No. 848
* 4 Du-Bro Micro E/Z Links No. 849
* .032 wire control arms
* 1/2” Nylon Filament Strapping (3M brand)

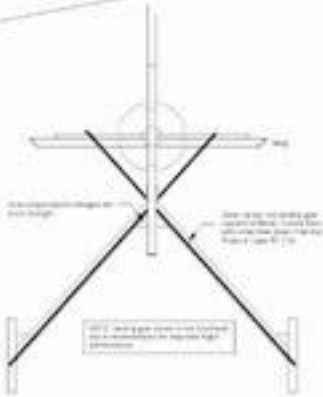
* Zagi tape for trim scheme (optional)
* Straight edge razor-blades
* No. 11 Xacto knife
* Metal yardstick
* 3M Photomount Spray Adhesive

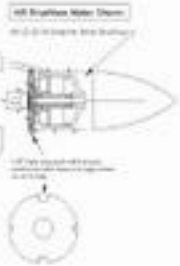
Hinge Detail

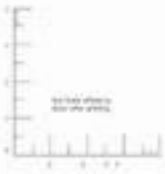
Use 1” wide clear packing tape for hinges. Clean all parts with rubbing alcohol before taping

Diablo-3D Park Flyer





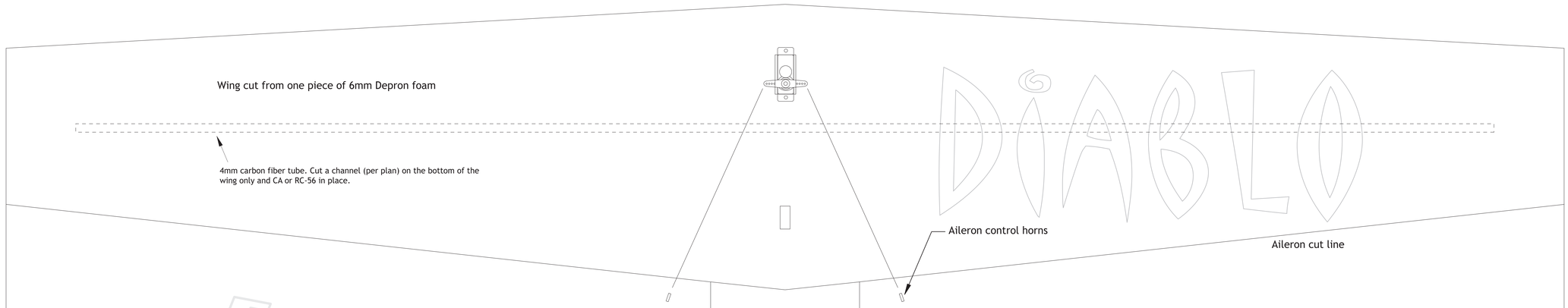




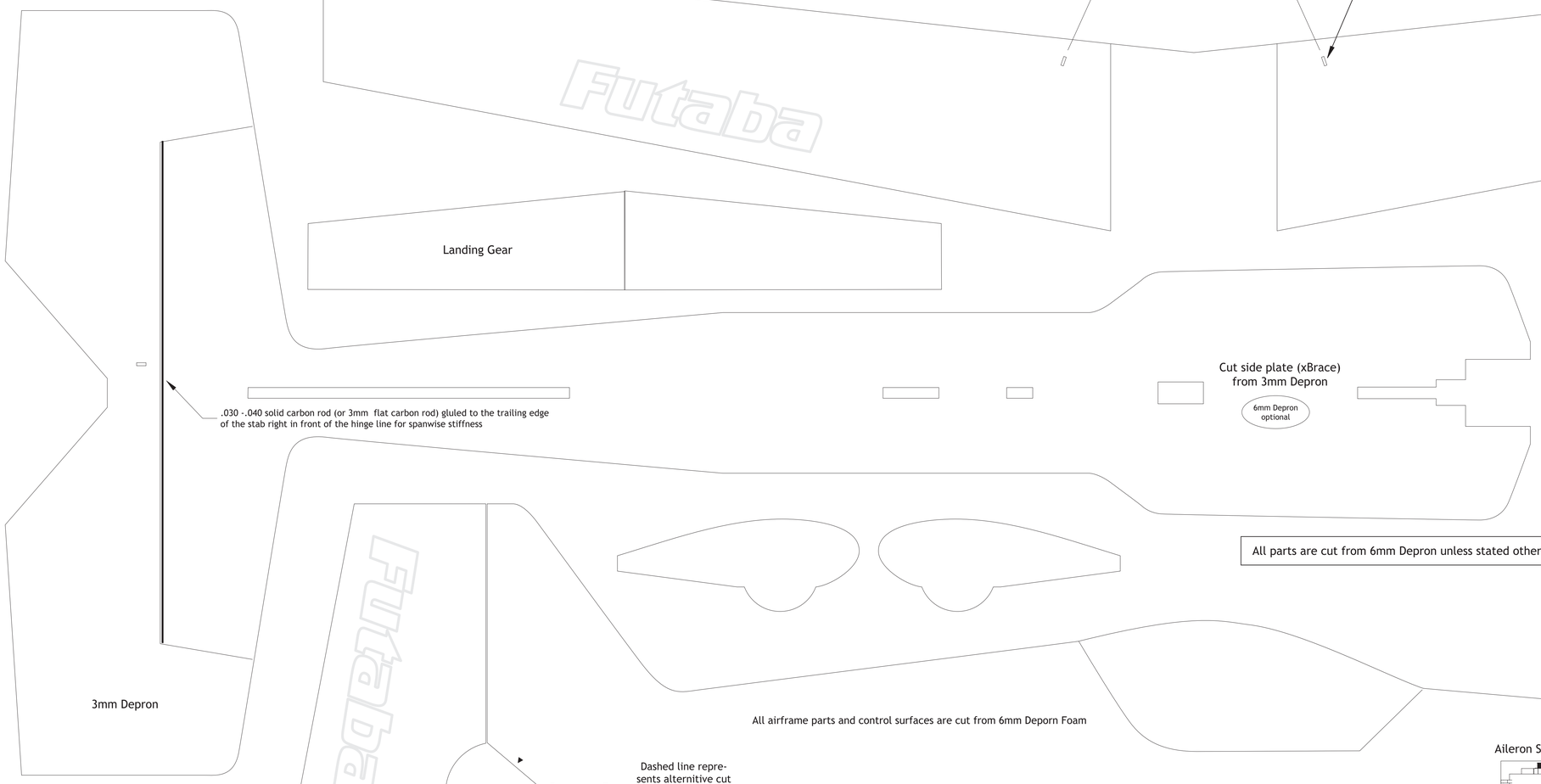
Diablo-3D Park Flyer

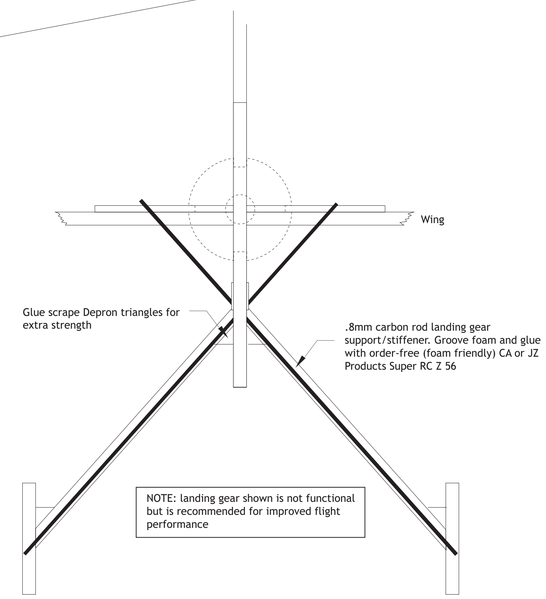
Wing cut from one piece of 6mm Depron foam

4mm carbon fiber tube. Cut a channel (per plan) on the bottom of the wing only and CA or RC-56 in place.



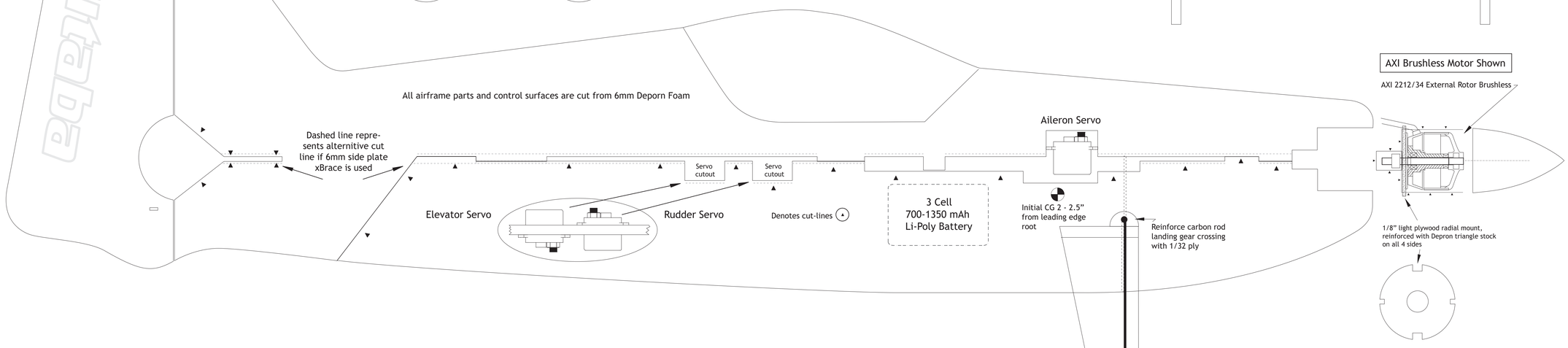
CG



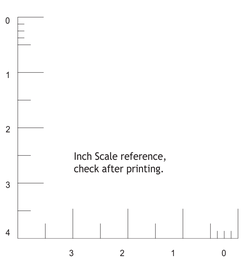


All parts are cut from 6mm Depron unless stated otherwise

All airframe parts and control surfaces are cut from 6mm Deporn Foam



AXI Brushless Motor Shown



Inch Scale reference, check after printing.

DIABLO-3 D PARK FLYER SPECS

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3D Batix.com

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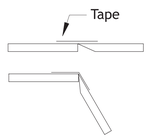
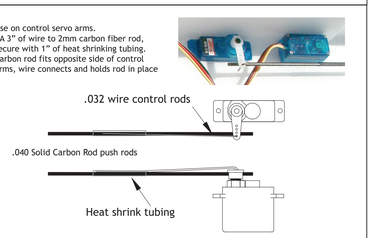
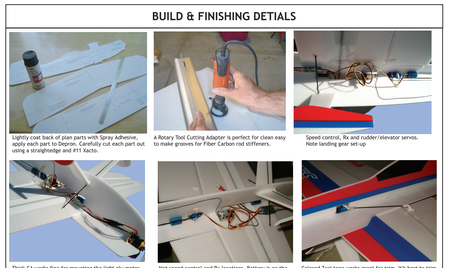


PUSHROD DETAIL

Use on control servo arms. CA 3" of wire to 2mm carbon fiber rod, secure with 1" of heat shrinking tubing. Carbon rod fits opposite side of control arms, wire connects and holds rod in place



BUILD & FINISHING DETIALS



Lightly coat back of plan parts with Spray Adhesive, apply each part to Depron. Carefully cut each part out using a straightedge and #11 Xacto.

A Rotary Tool Cutting Adapter is perfect for clean easy to make grooves for Fiber Carbon rod stiffeners.

Speed control, Rx and rudder/elevator servos. Note landing gear set-up

Thick CA works fine for mounting the light ply motor mount.

Not speed control and Rx locations. Battery is on the opposite side.

Colored Zagi tape works great for trim. It's best to trim each part before assembly.

Design by Mickey Crawley - Plans by Steven Gibson


Futaba
3D
Extix.com

Wing cut from one pie

4mm carbon fiber tube. Cut
wing only and CA or RC-56 i

Diablo-3D Park Flyer

ece of 6mm Depron foam

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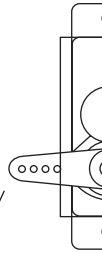
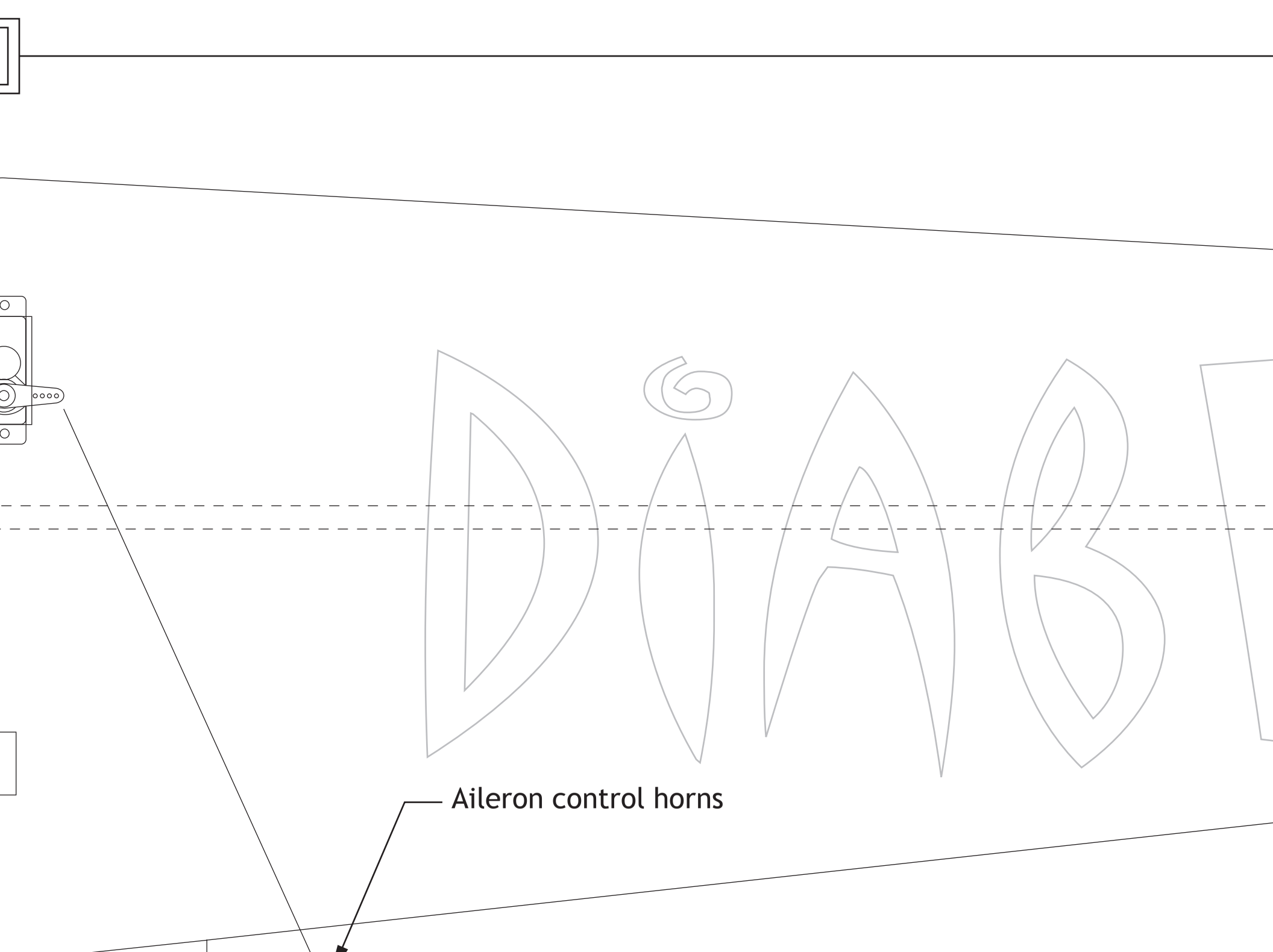
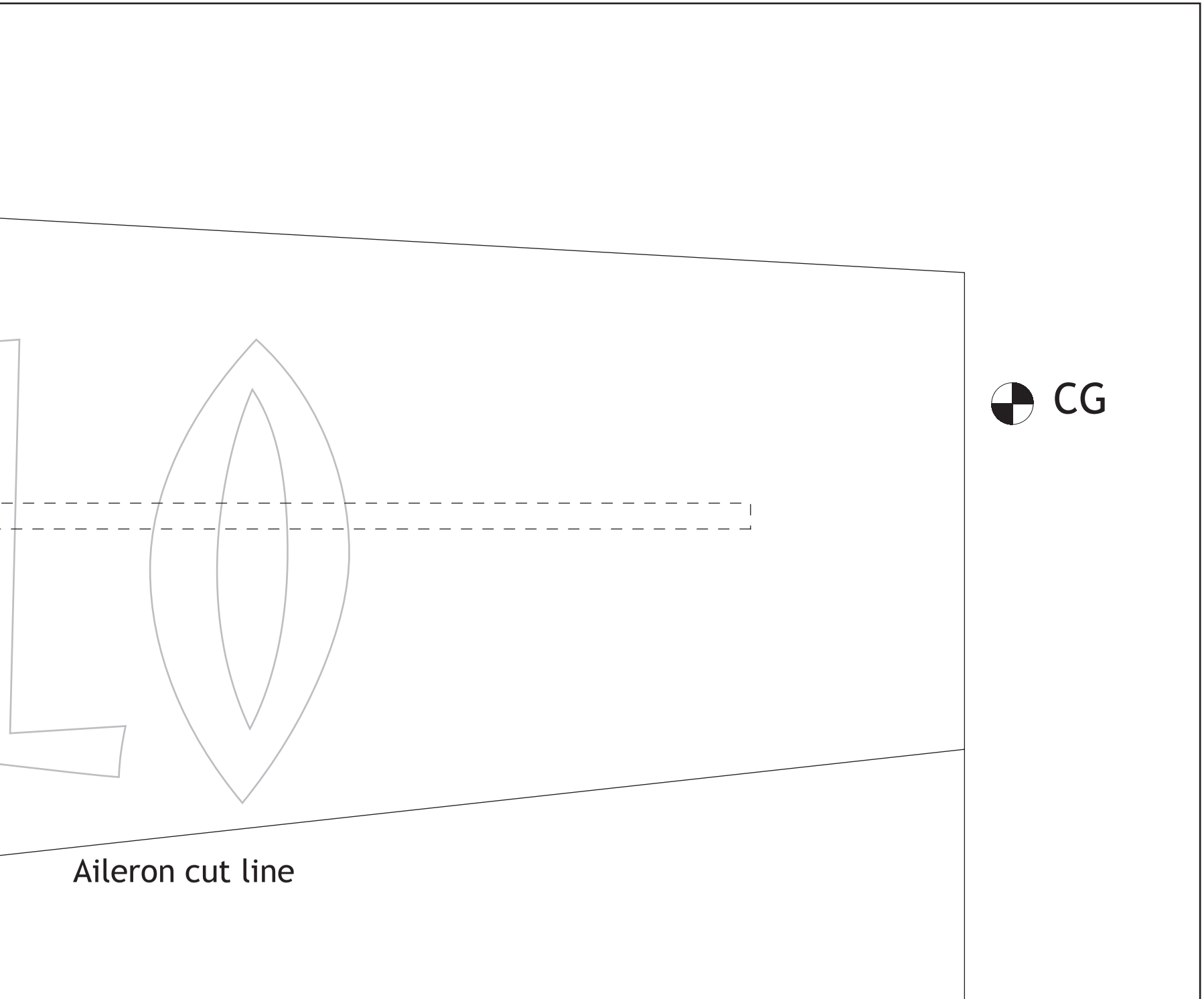
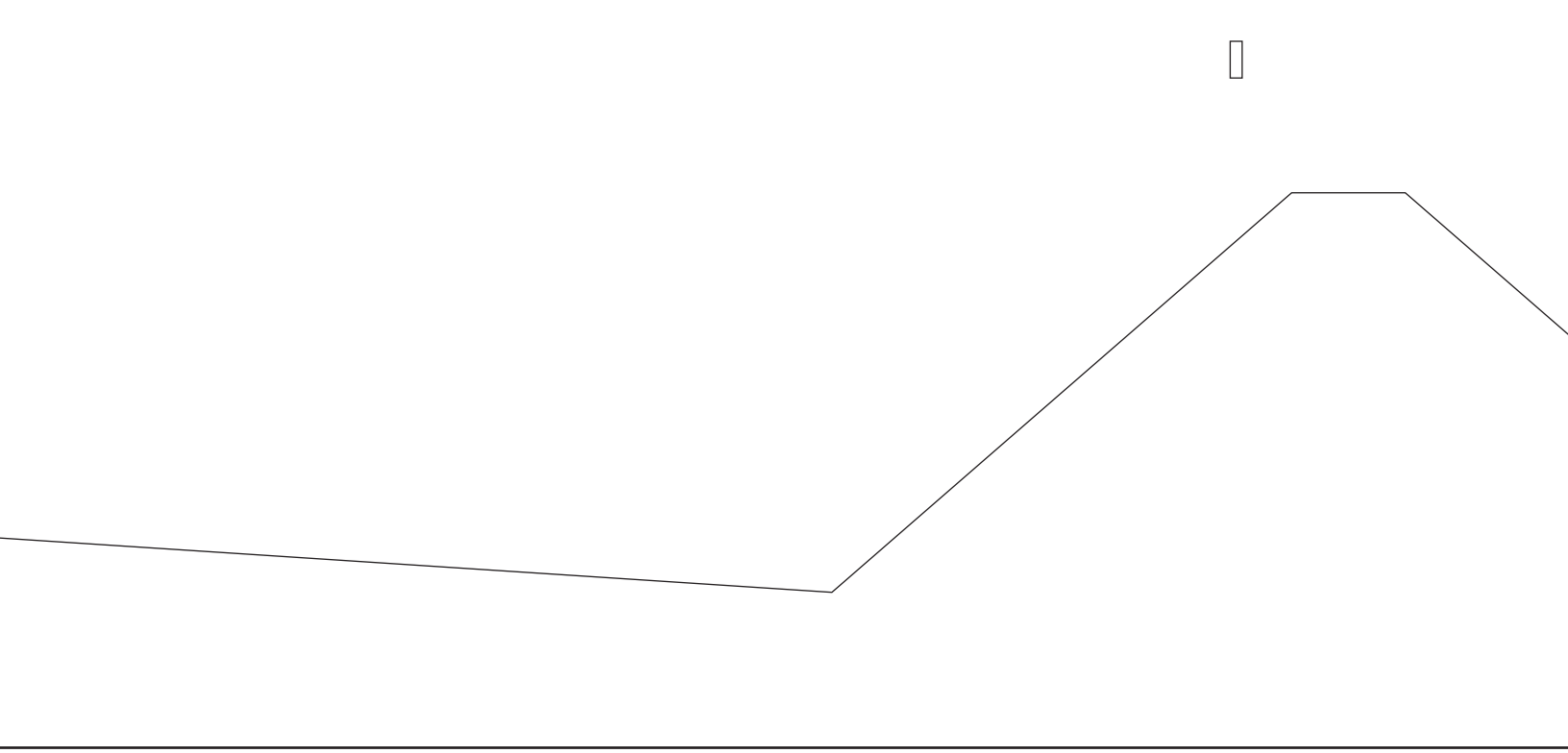
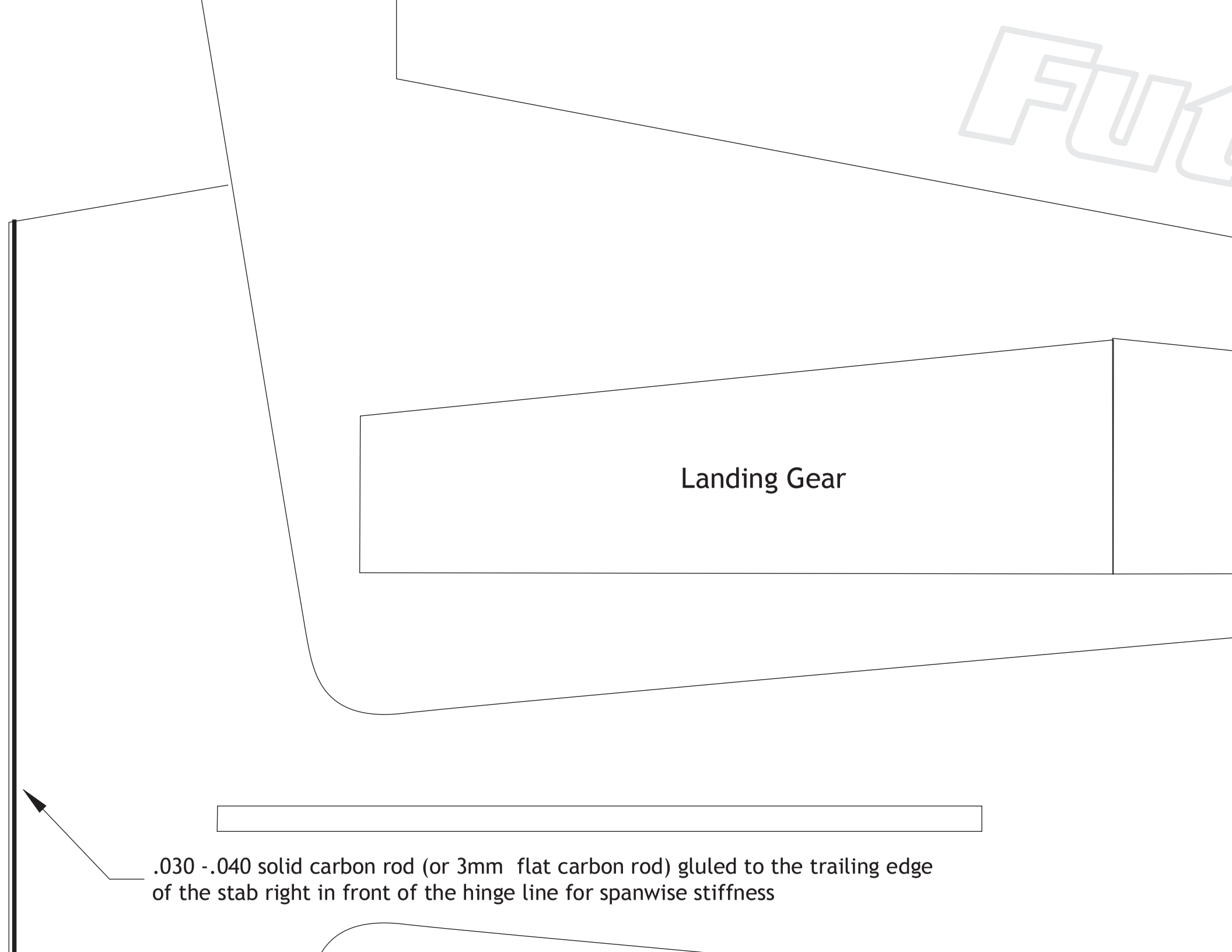
n place.

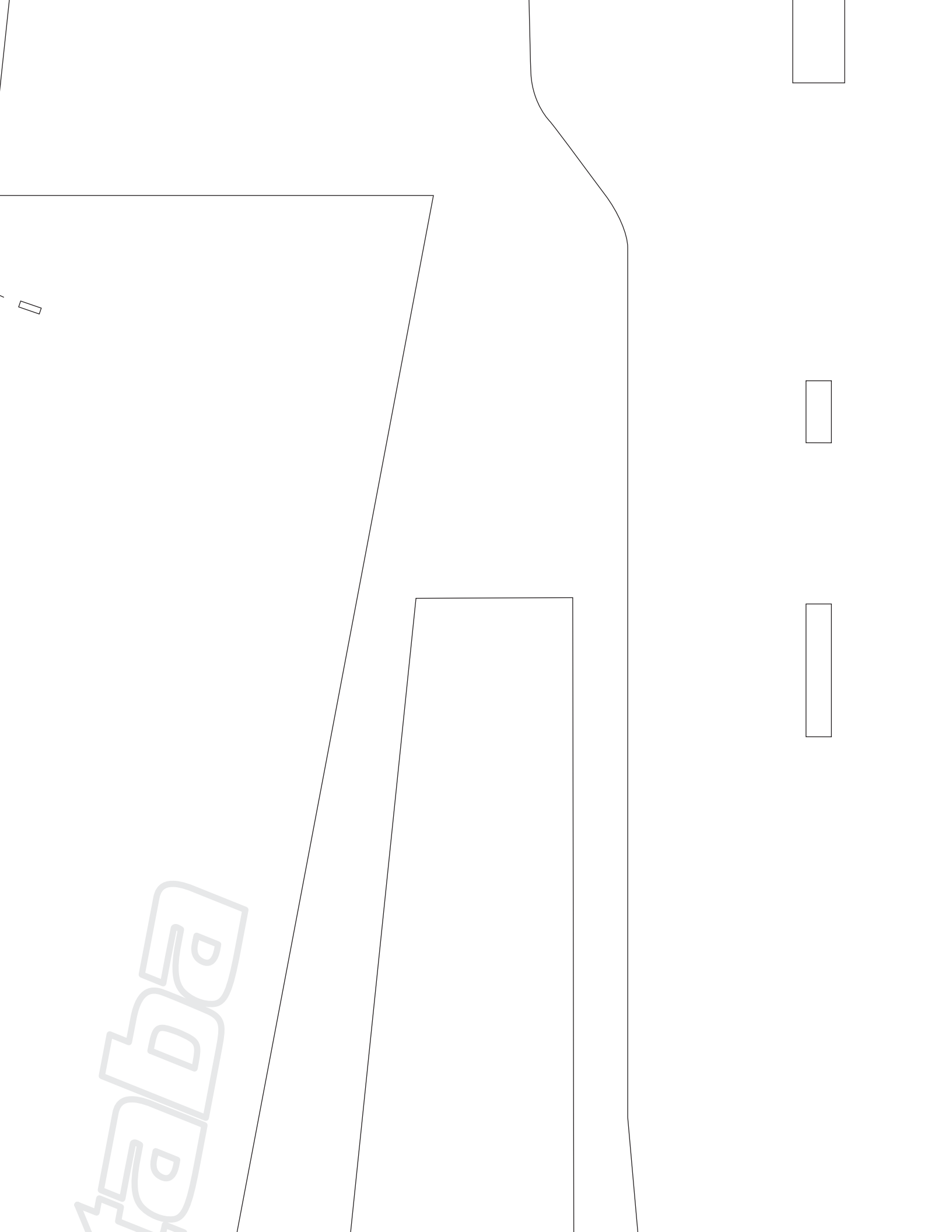



Aileron control horns

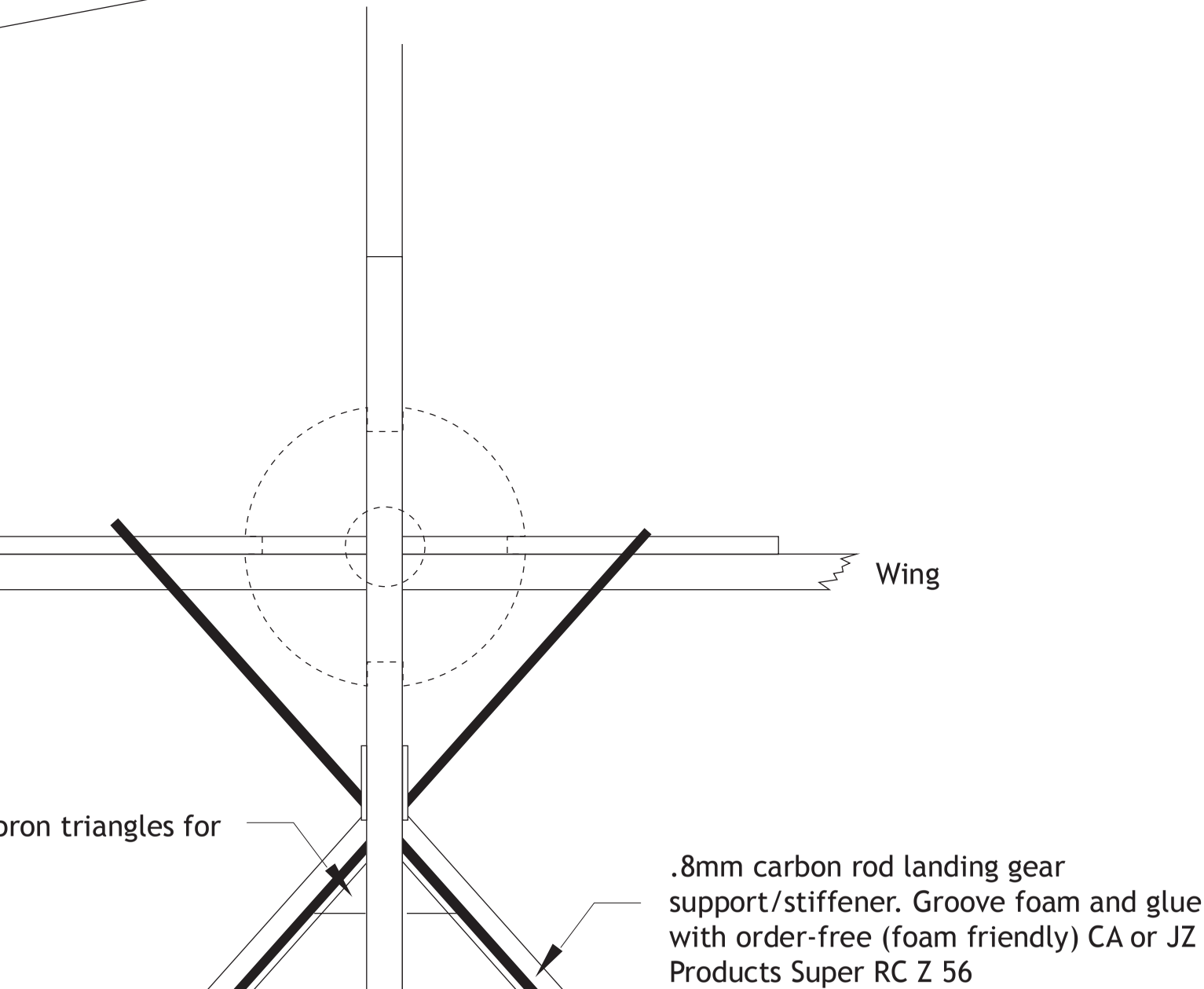

CG
Aileron cut line




Landing Gear
.030 -.040 solid carbon rod (or 3mm flat carbon rod) gluled to the trailing edge
of the stab right in front of the hinge line for spanwise stiffness




Cut side plate (xBrace)
from 3mm Depron
6mm Depron
optional
Glue scrape Dep
extra strength


Wing
bron triangles for
.8mm carbon rod landing gear
support/stiffener. Groove foam and glue
with order-free (foam friendly) CA or JZ
Products Super RC Z 56


3mm Depror

Dashed
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xBrac

All airframe parts and control surfaces are cut from 6mm Deporn Foam

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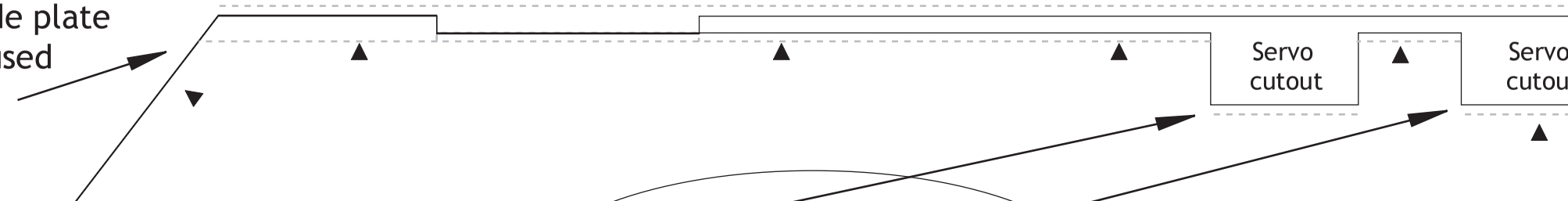

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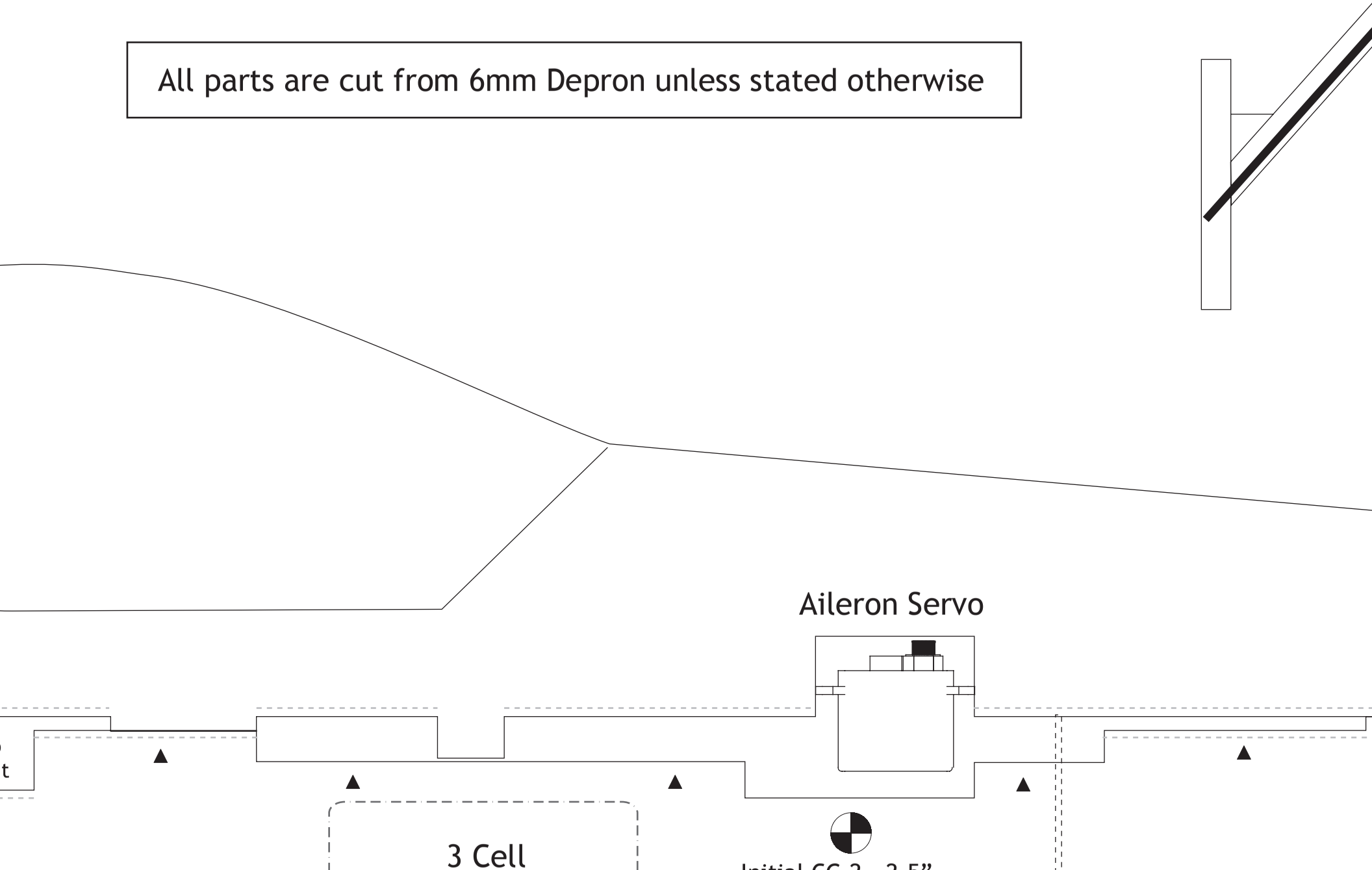
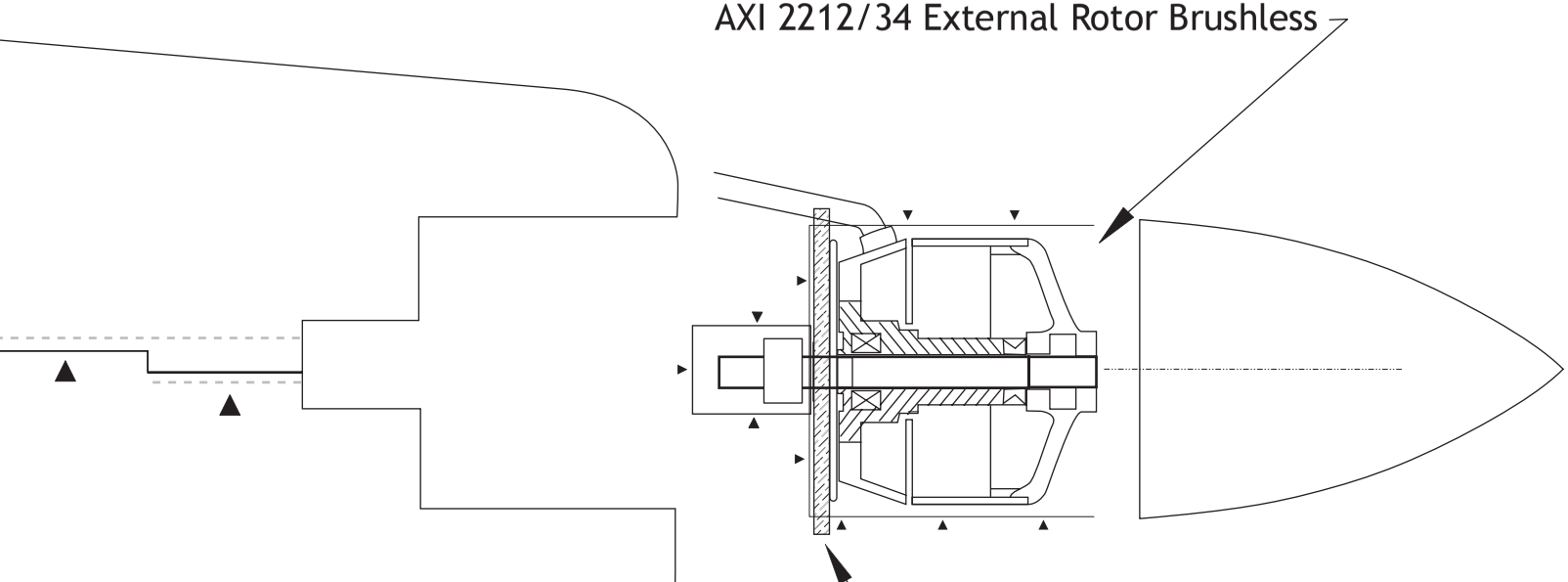
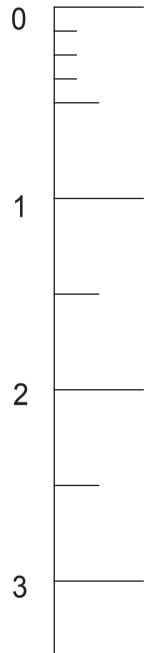


NOTE: landing gear shown is not functional but is recommended for improved flight performance

AXI Brushless Motor Shown





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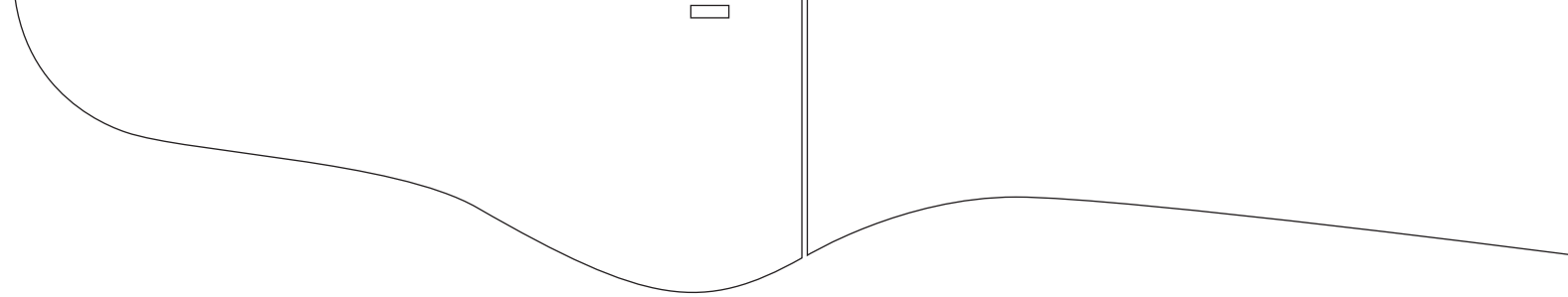

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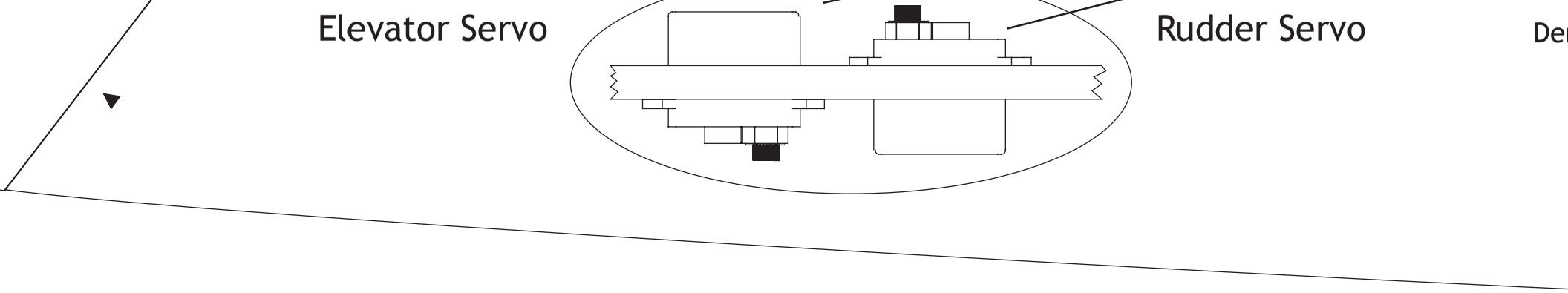

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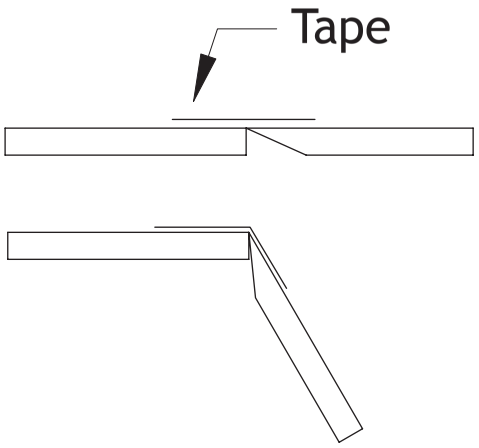

PUSHR

Use on control servo arms.
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Carbon rod fits opposite side of control
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.032 wire con

.040 Solid Carbon Rod push rods

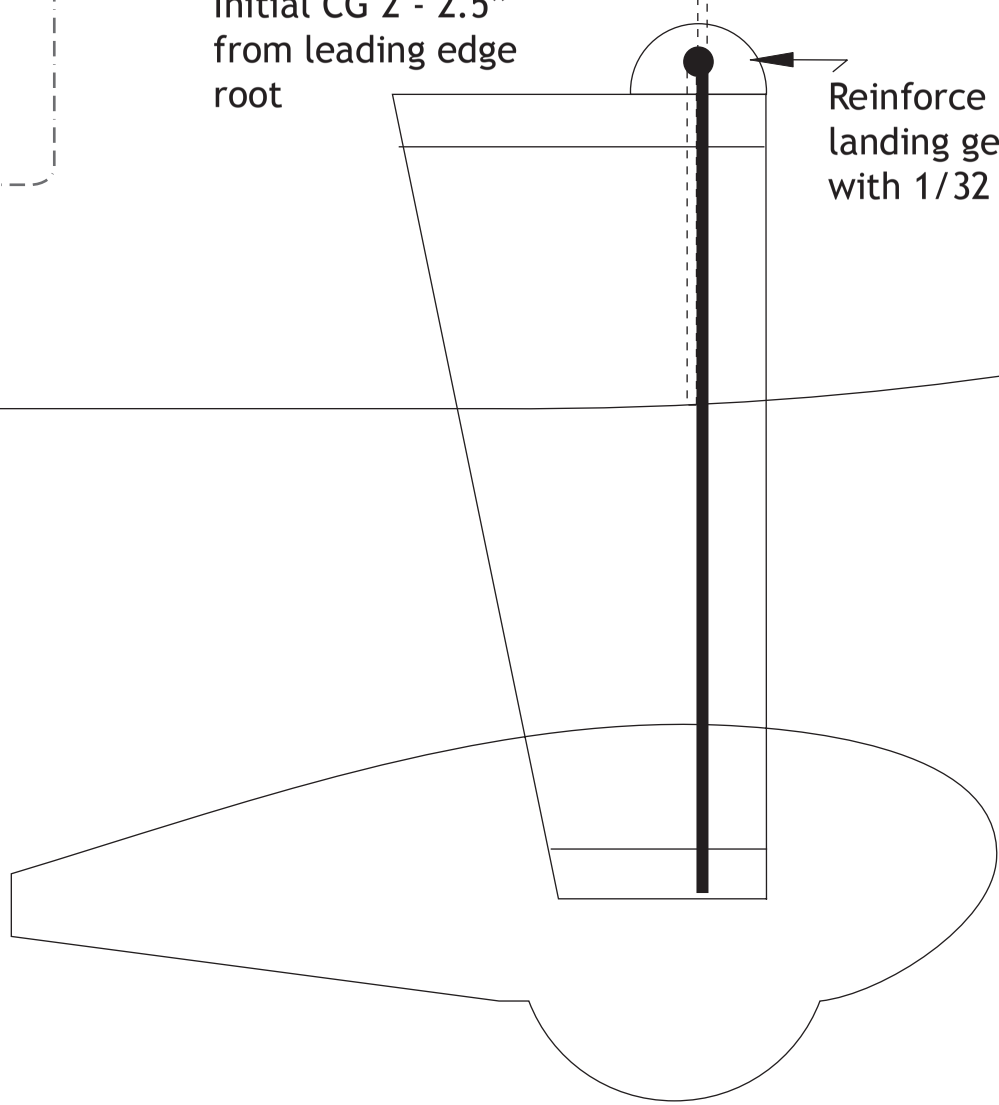
Heat shrink t

notes cut-lines

700-1350 mAh
Li-Poly Battery

Initial CG 2 - 2.5"
from leading edge
root

Reinforce carbon rod
landing gear crossing
with 1/32 ply



OD DETAIL

ce

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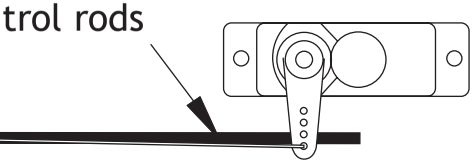
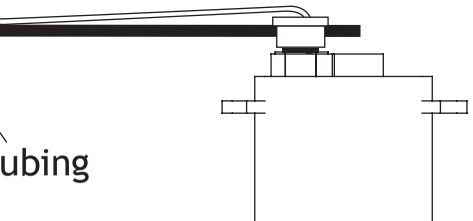
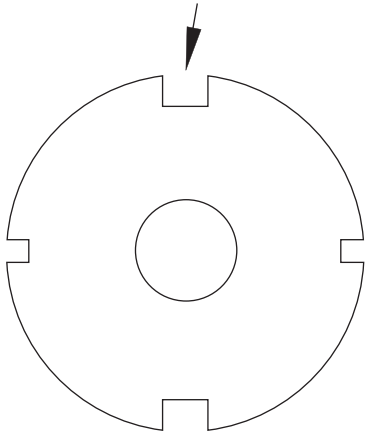




ubing

1/8” light plywood radial mount, reinforced with Depron triangle stock on all 4 sides



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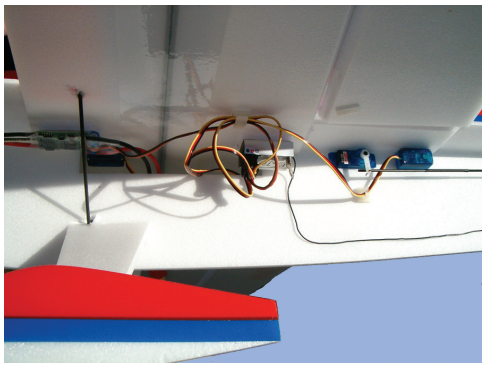

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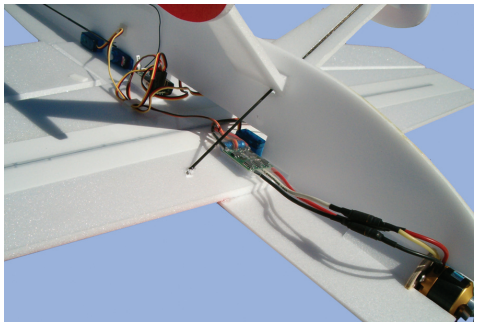

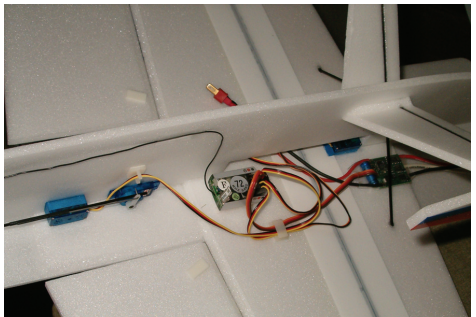

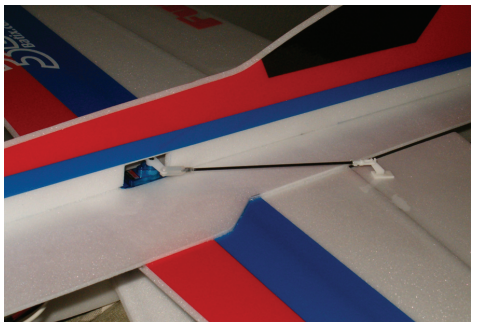

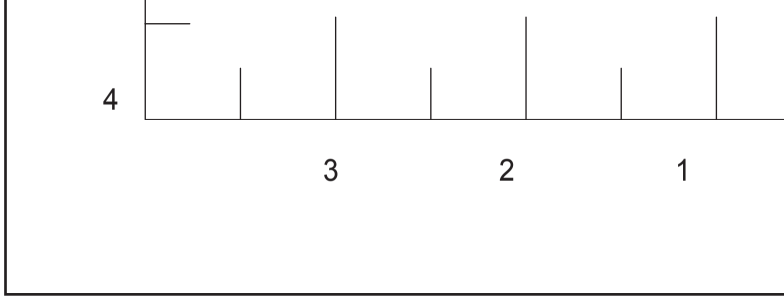
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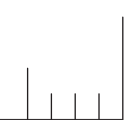

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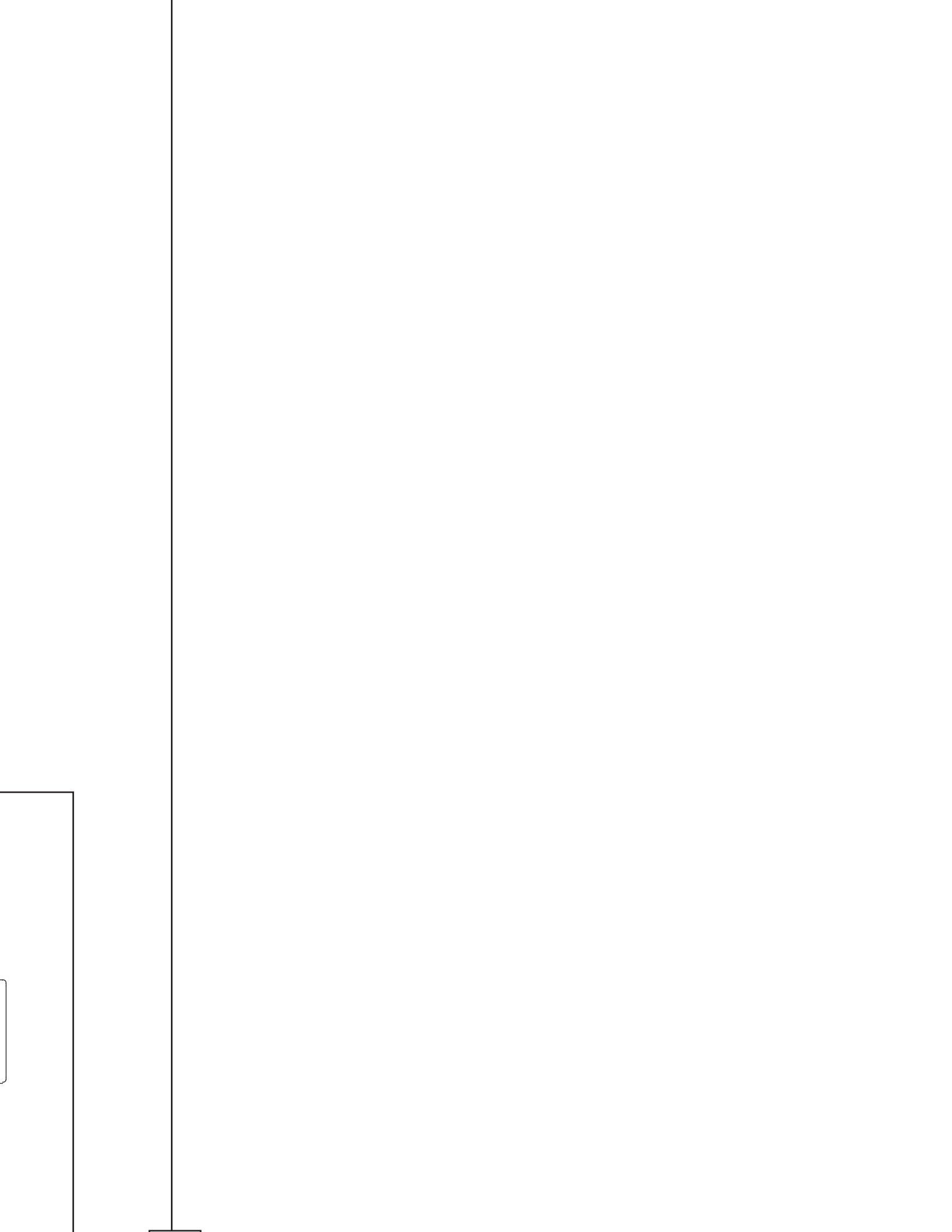
Design by Mickey Crawley - Plans by Steven Gibson



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To whom it may concern:

My name is Zak West, owner of the website www.3dbatix.com. I am located in the bay area of California and specialize in promoting aerobatics with radio controlled model airplanes. At 3Dbatix, we offer several plans free of charge in PDF format for our viewers to construct at their own will. It has come to our attention that some of your stores have been denying some of our website members from printing off the plans in your stores due to lack of documentation verifying the proper usage, and distribution of the plans. This letter serves the purpose of declaring permission for any of our users to print the plans for our aircraft without ramifications or legal action taken by 3DBatix.com against your stores. The purpose for providing the plans online is to allow members of our community to construct these airplanes as cheaply and as quickly as possible. Our airplanes are meant to be accessible to anyone wishing to construct them and we freely welcome any individuals willing to construct our designs.

Thank you,

Zak West
3DBatix Team members