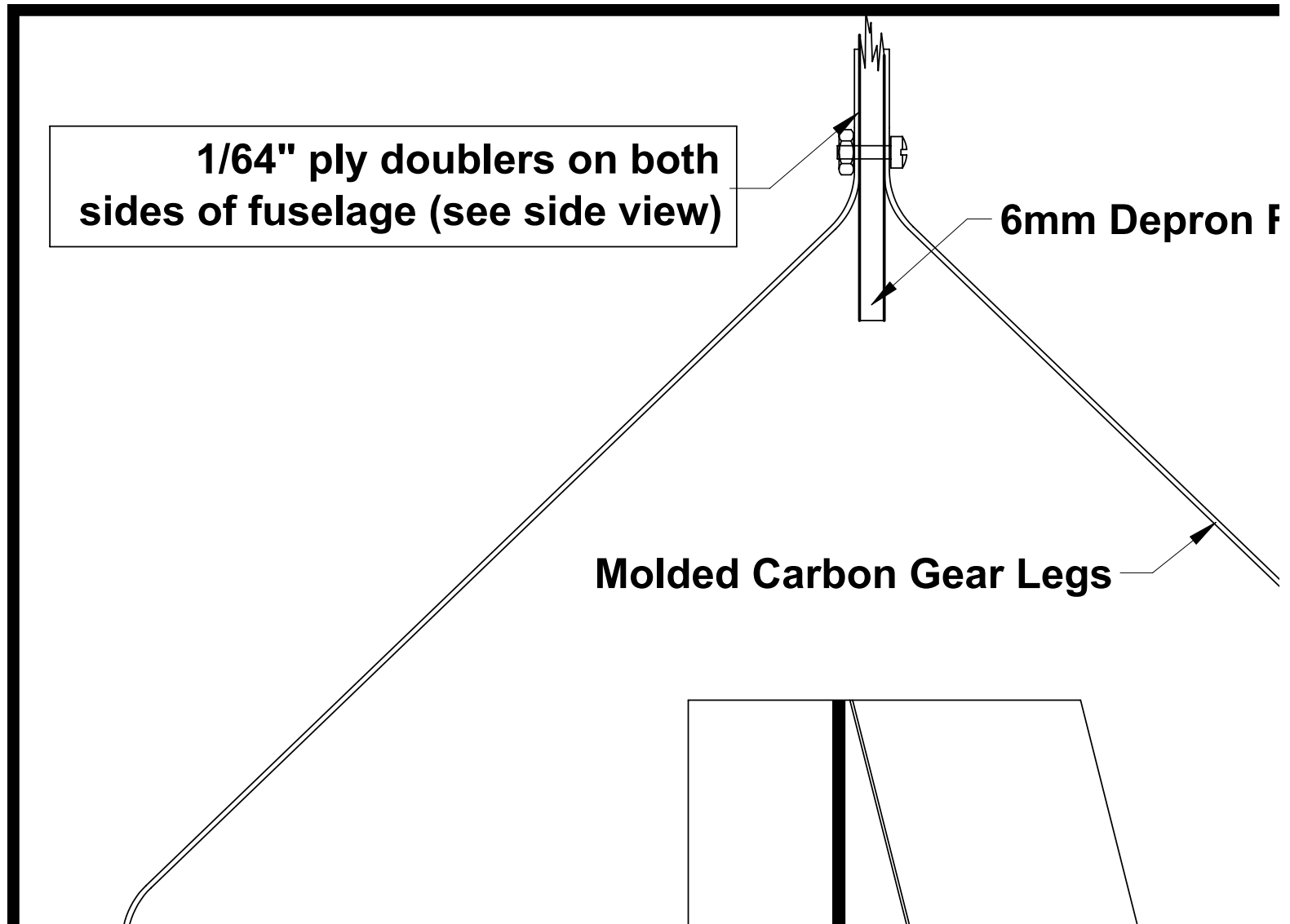


**1/64" ply doublers on both
sides of fuselage (see side view)**

6mm Depron F

Molded Carbon Gear Legs

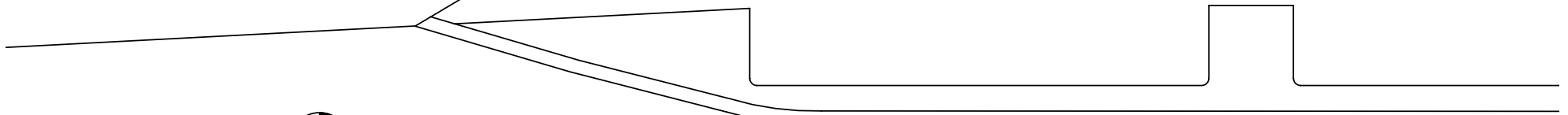


use

**3/8"x3/8" Hardv
Groove block to
If using GWS 3!
block on Carbo
prop/drive shaf
location as sho**

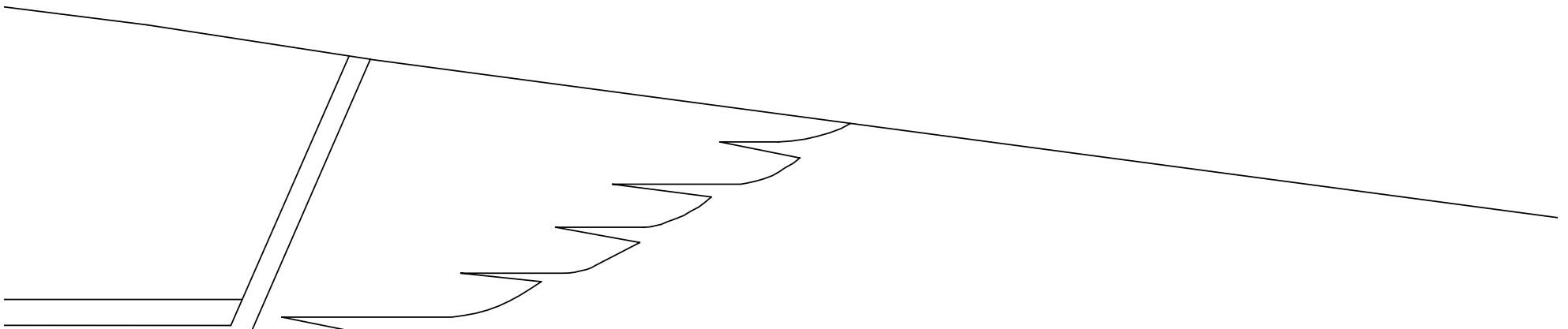
3/16" zipties

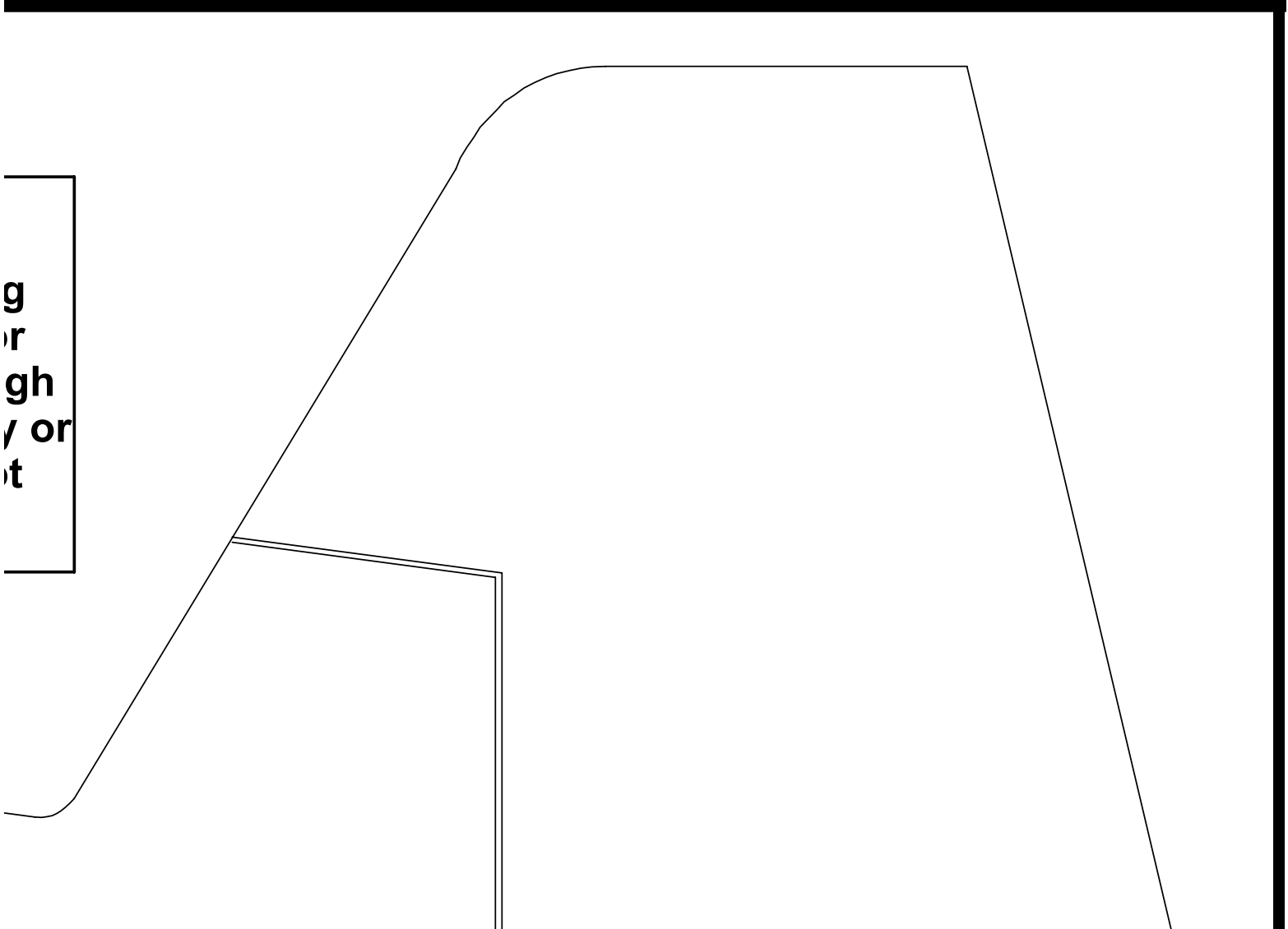
**wood motor block
to fit carbon rod.
50 Drive, mount
on rod so that the
it is in the same
own on plans.**



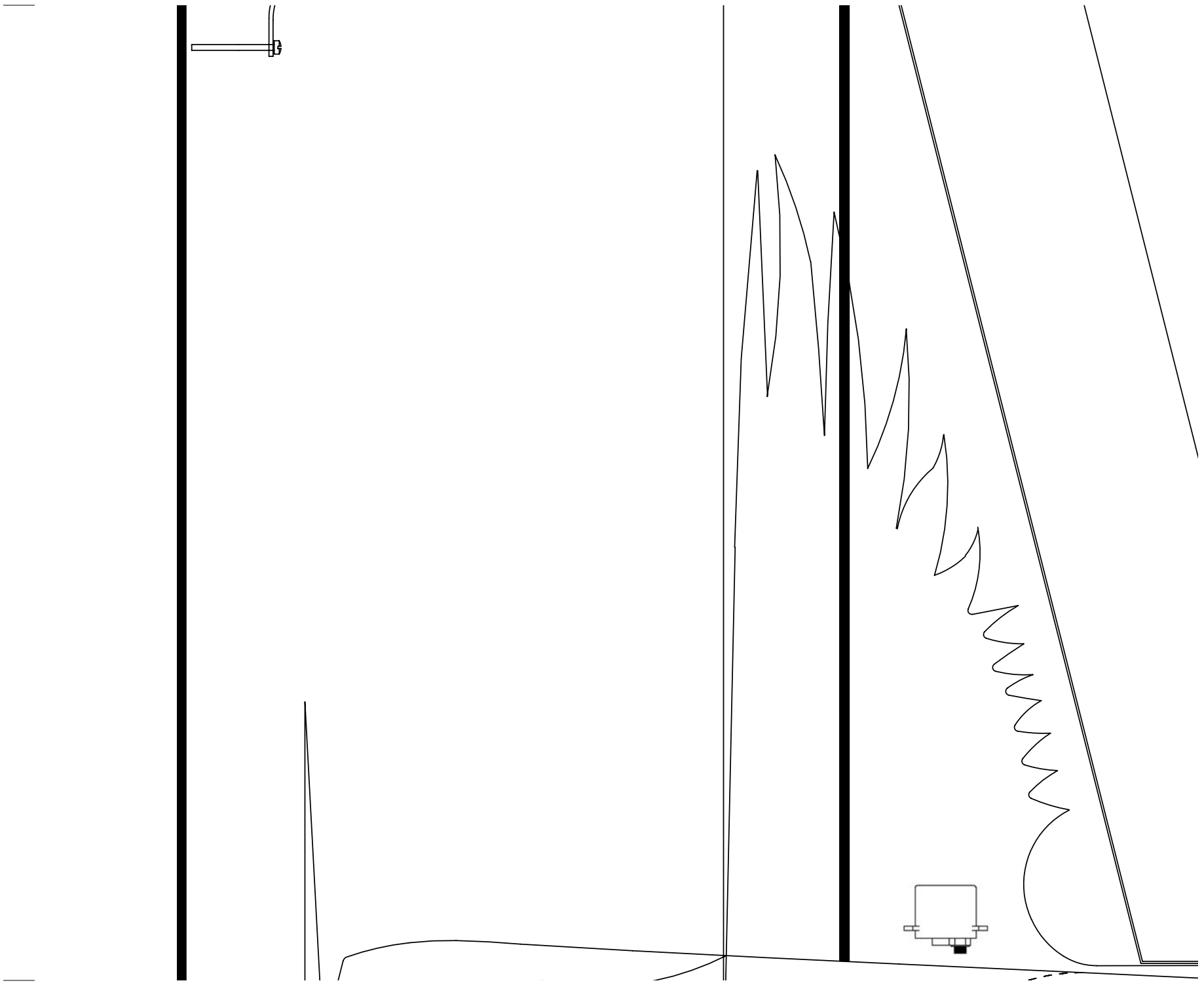
Notes on the fuse:

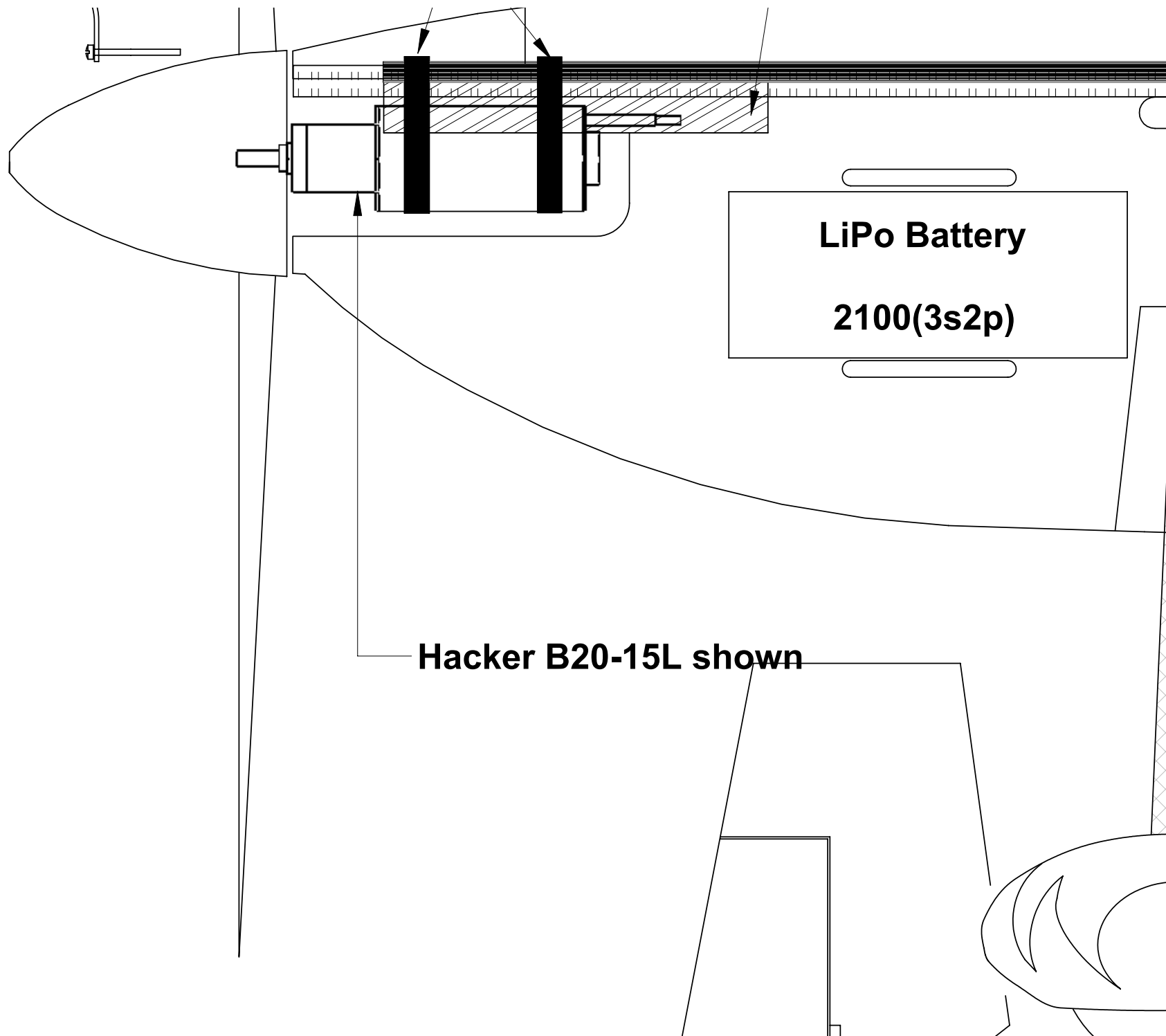
If you are going for all out light weight, consider leaving out the fuse spar. The side plates are strong enough for anything in flight, but will not be quite as tough for rough landings/crashes. Make sure to use 15-30 minute epoxy shoogoo for the main parts...5 min and foam CA are not strong enough, and will crack under the torque.

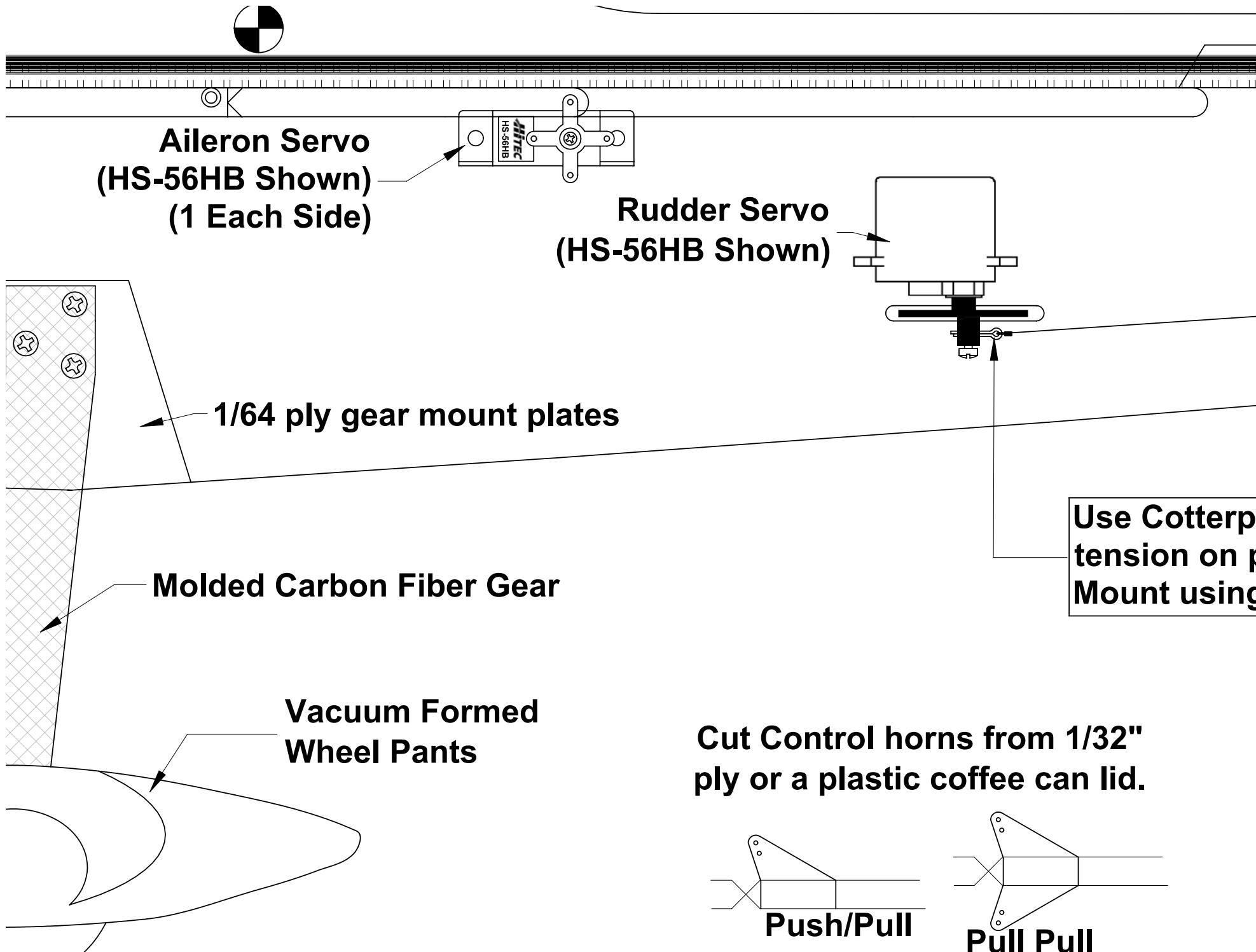




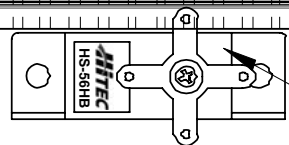
g
r
gh
y or
t







4mm Carbon Spar



Elevator Servo
(HS-56HB Shown)

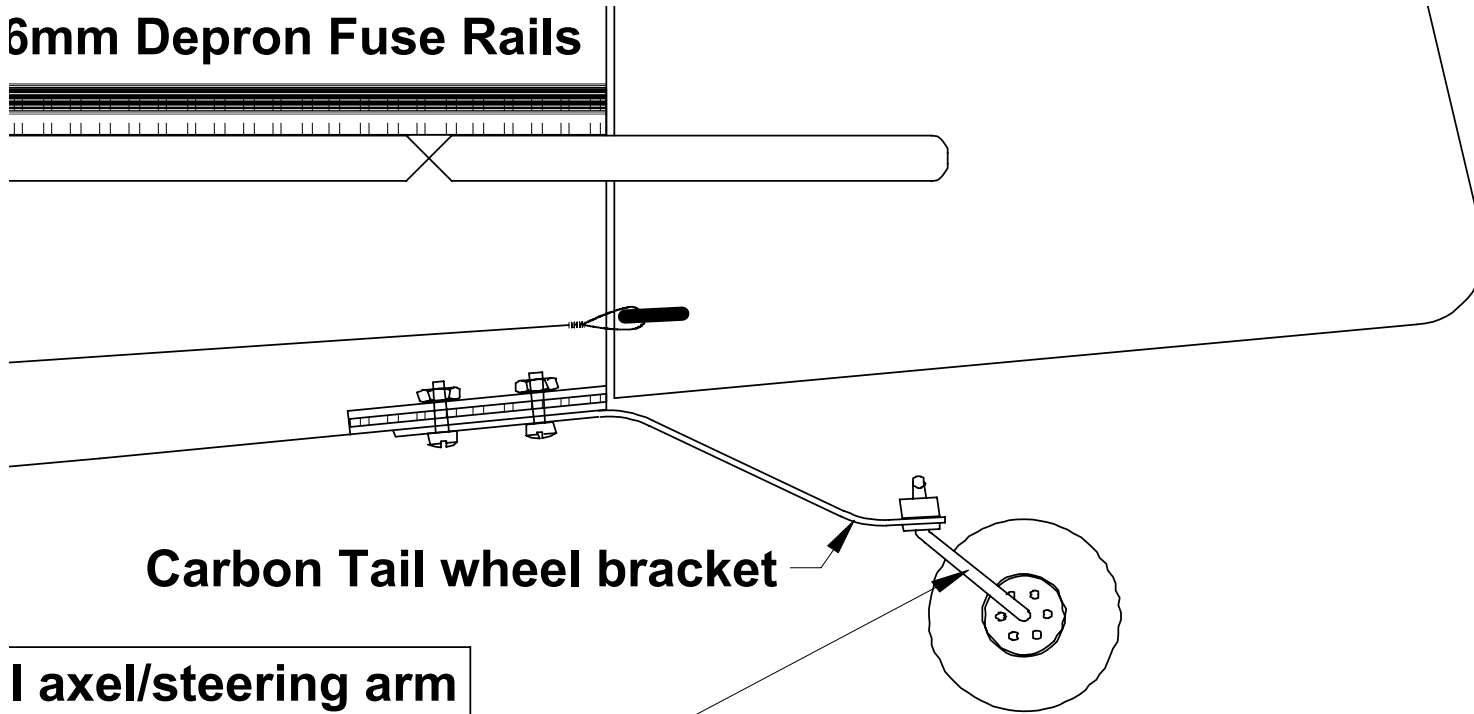
in to adjust
pull-pull system.
g Dubro EZ Conectors

1/16" wire wheel
(Bend 90 deg
a control arm.
link to attach to ru

All hinging for control surfaces can be packing
tape or actual hinges. I prefer robart hinge
points provided in place for the added longevity.

Motor Gearing Pr
GWS EPS350C I
GWS EPS350C I
Hacker B20-26S
Hacker B20-21S

6mm Depron Fuse Rails



Carbon Tail wheel bracket

Use clamp on ball
(adder control horn)

Motor/Battery Info

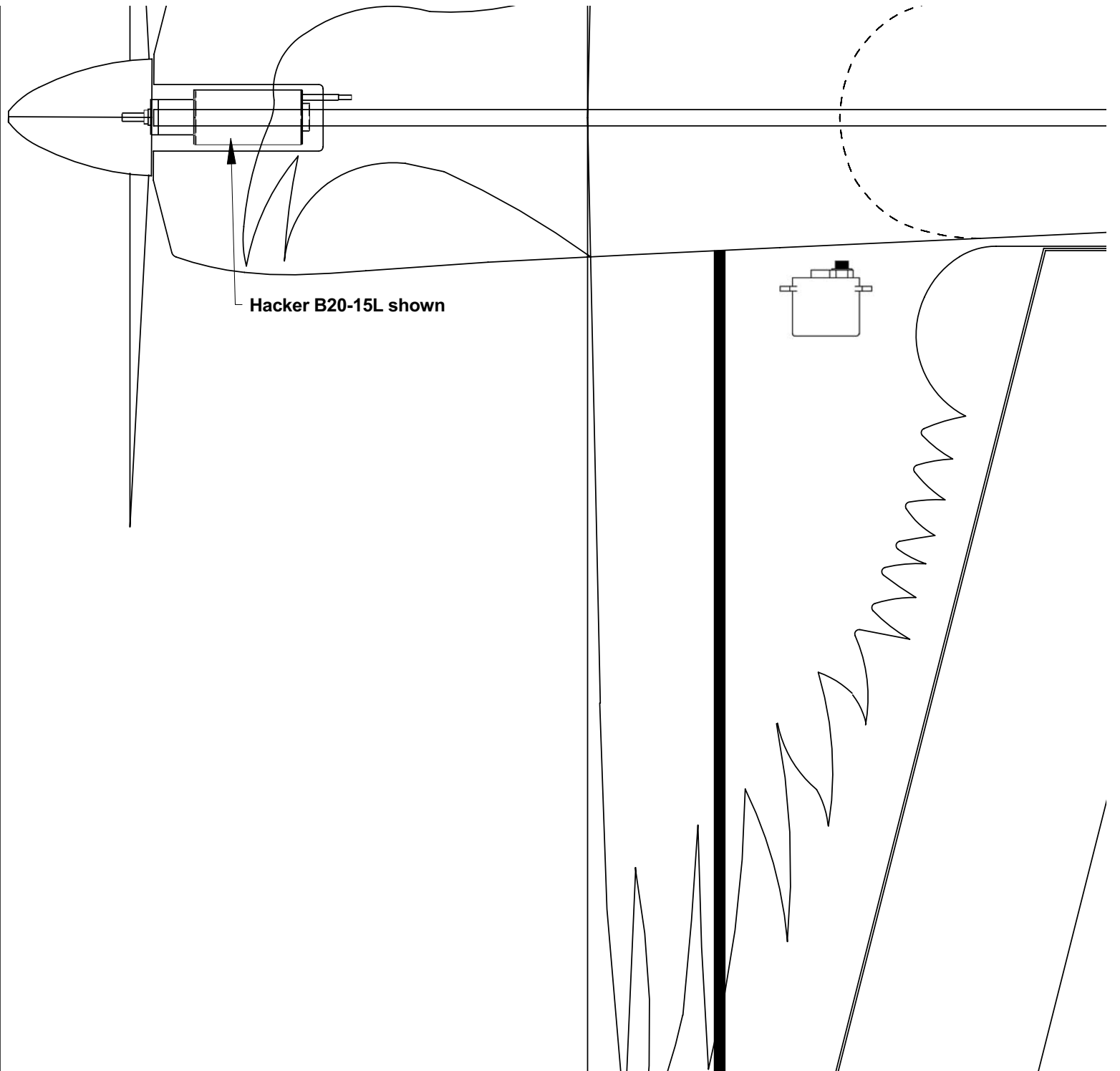
Top Battery Amp Draw Thrust

DS (6.6:1) GWS 12x6 2s1p Lipo 9.5 17.1 oz.

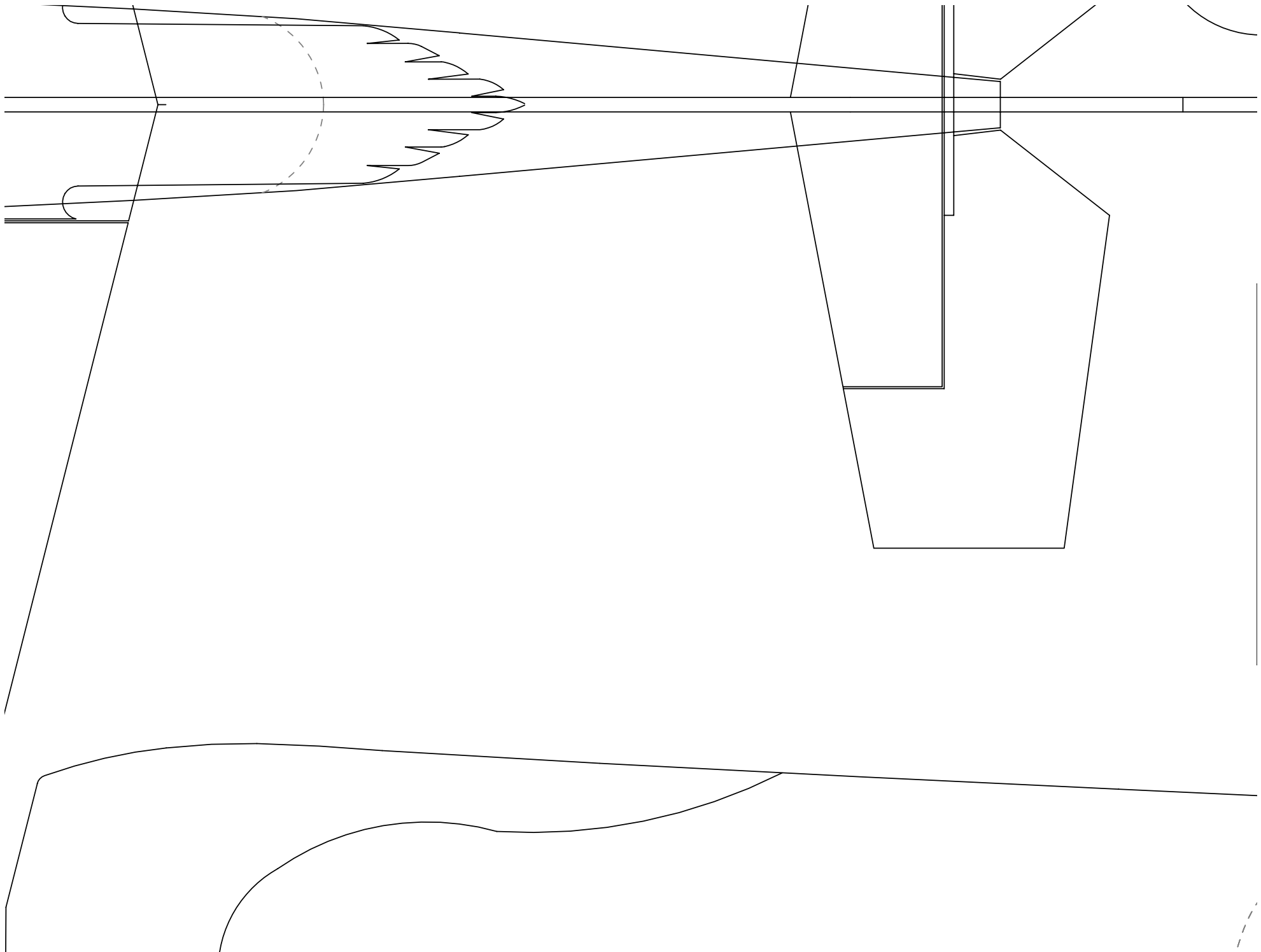
DS (6.6:1) GWS 11x4.7 3s1p Lipo 11.5 24.3 oz.

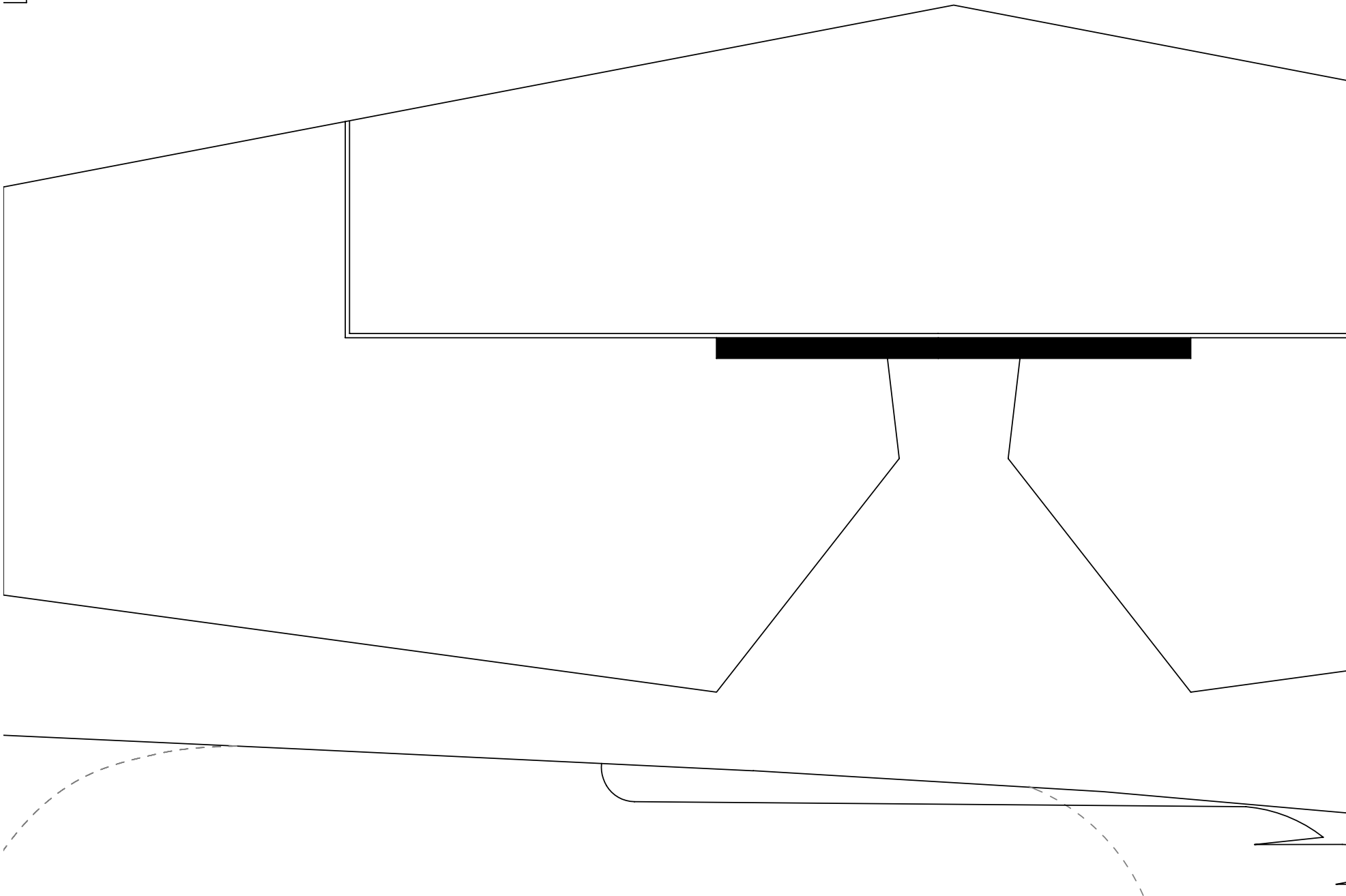
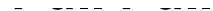
4:1 Planetary APC 11x4.7 3s1p LiPo 11 amps 22.1 oz.

4:1 Planetary APC 11x4.7 3s1p LiPo 7.7 amps 18.6 oz.

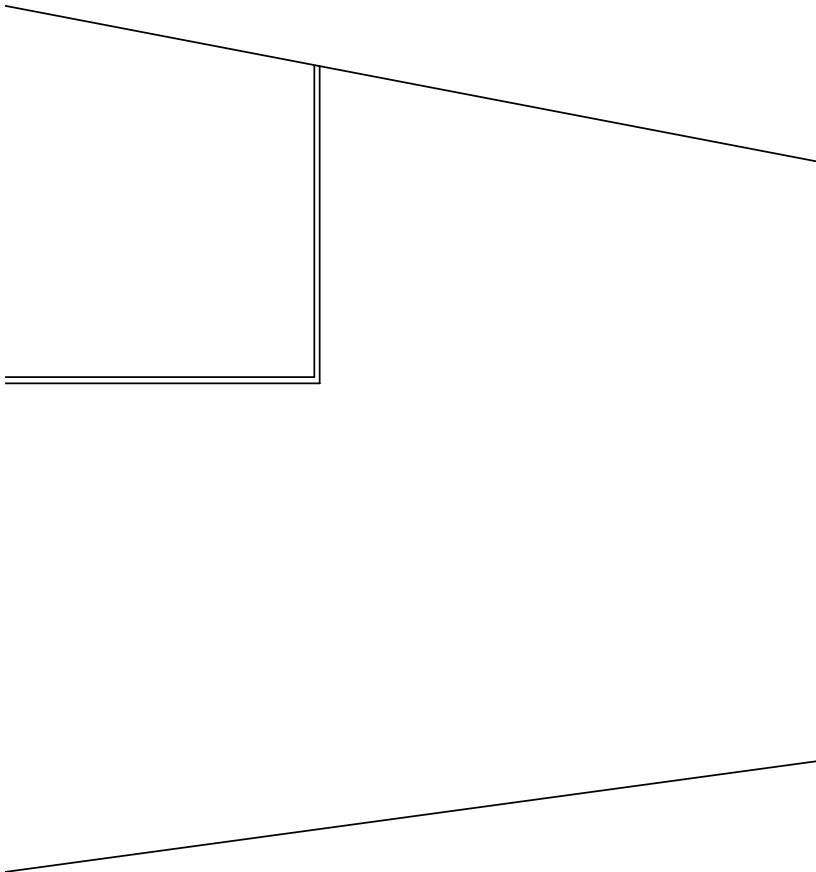


Hacker B20-15L shown



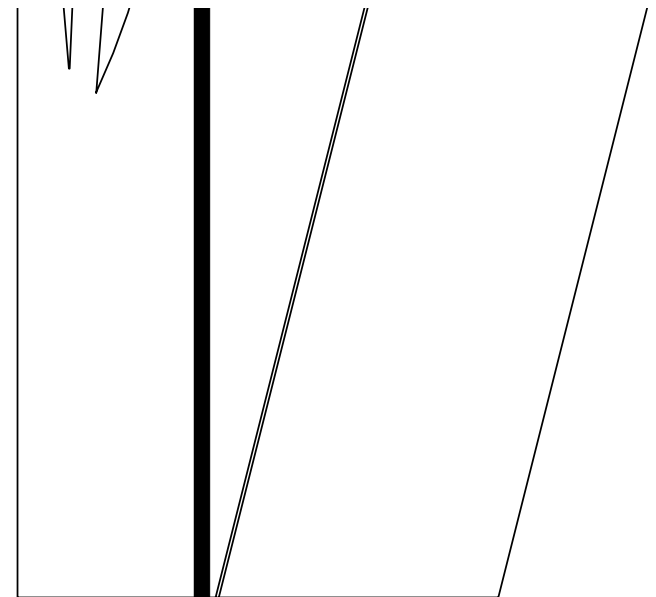
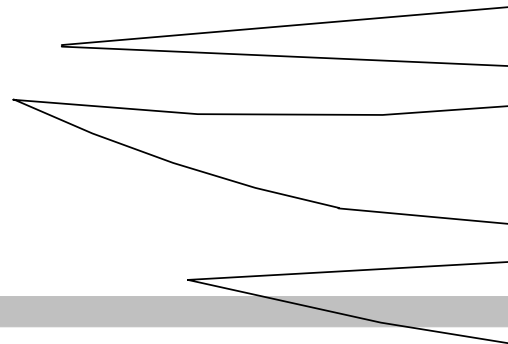
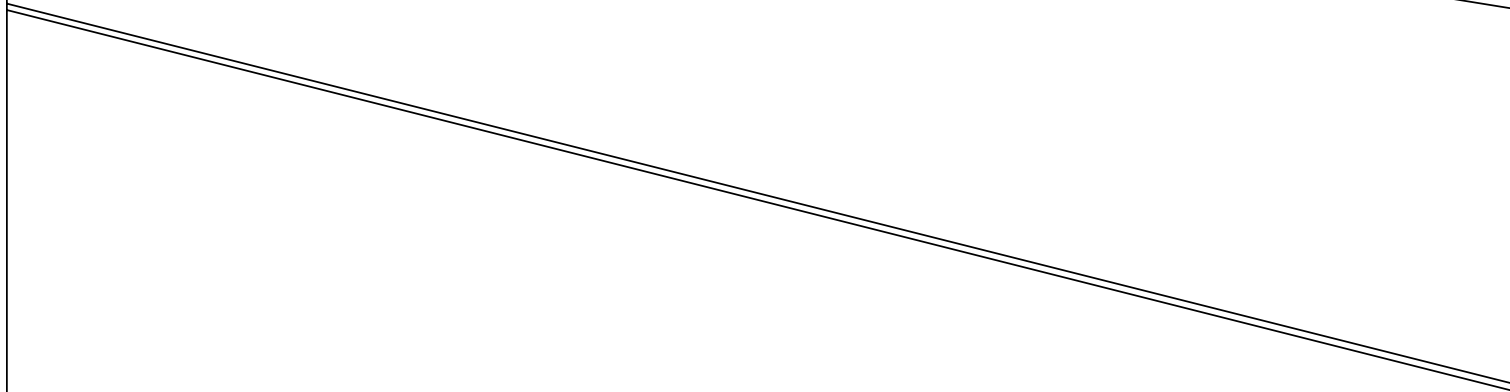


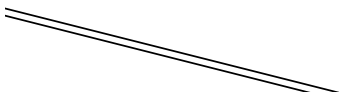
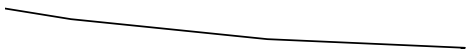
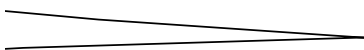
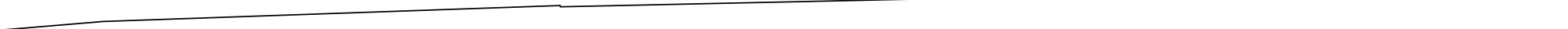
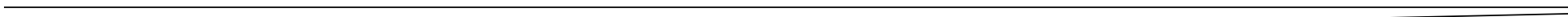
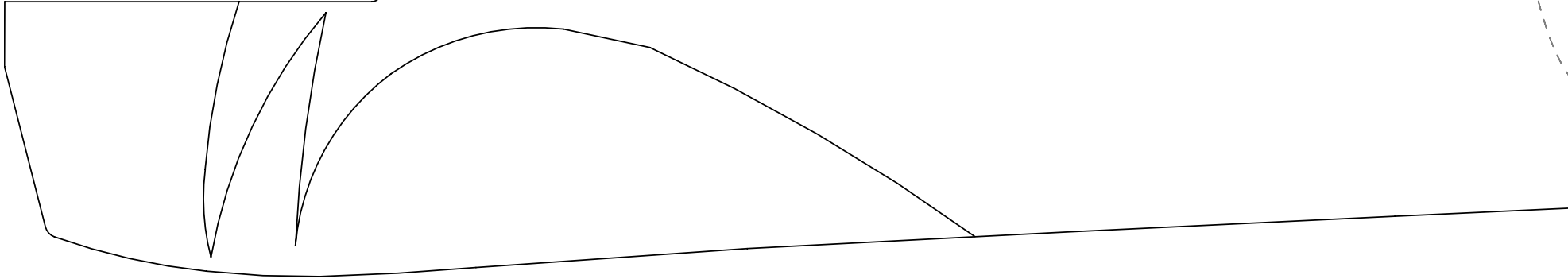
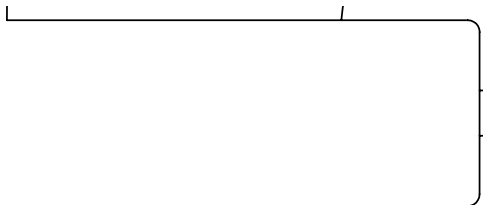
**points epoxied in place for the added longevity
and control freeness.**

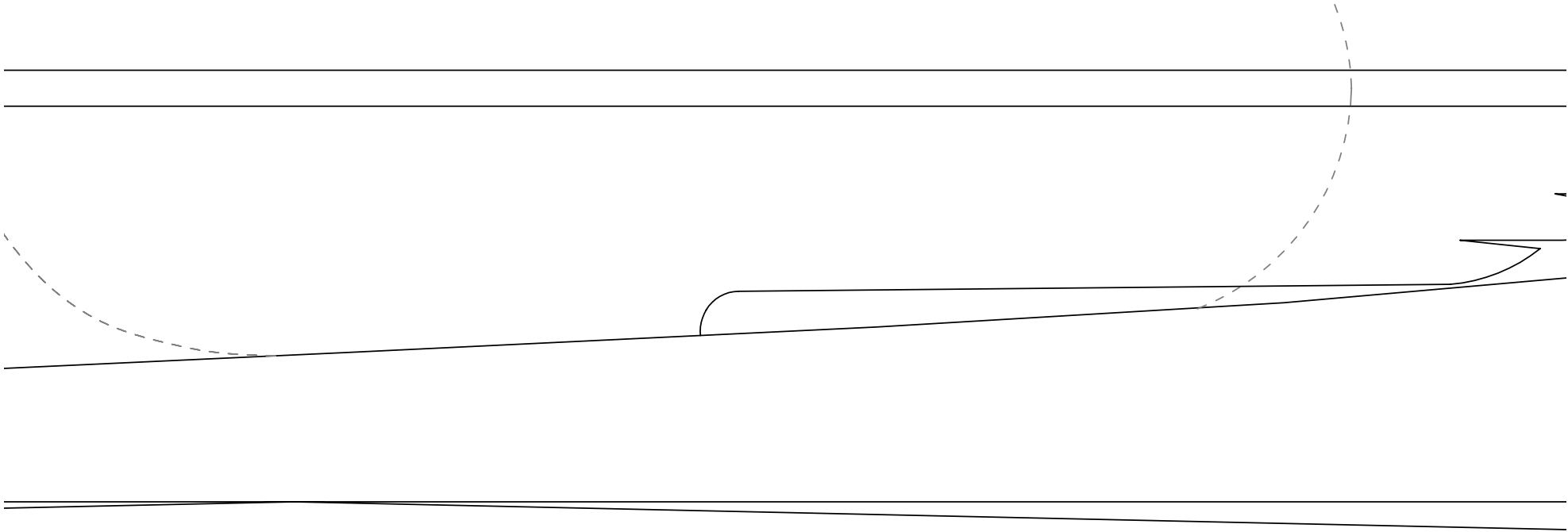


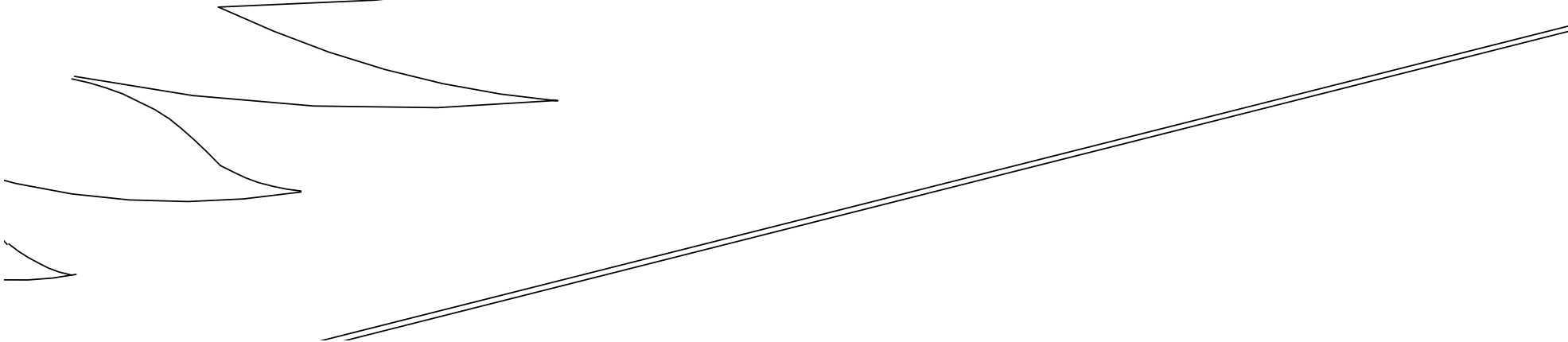
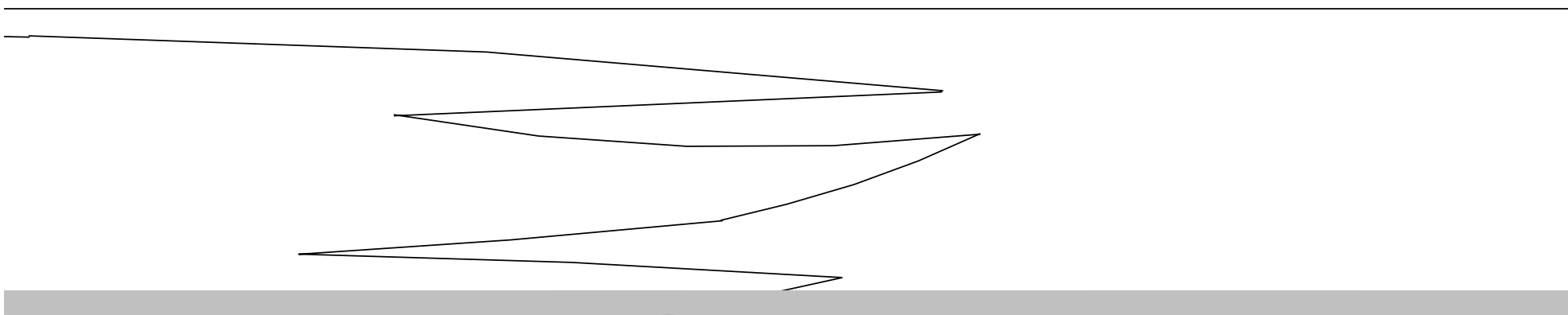
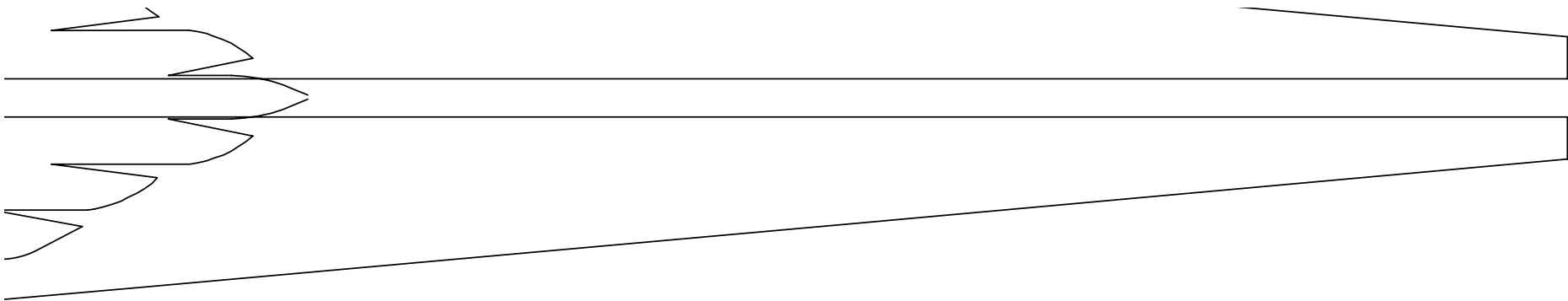
Hacker B20-313
Hacker B20-15L
Hacker B20-15L
Hacker B20-18L
Hacker B20-18L
Razor RZ300 GV
Razor RZ300 GV
Razor RZ300 GV
Razor RZ350 GV
Razor RZ350 GV
Razor MicroHeli
PJS 3D 500 Direc
PJS 3D 550 Direc
HiMax HA2015-3
HiMax HA2015-3
HiMax HA2015-4
HiMax HA2015-4
HiMax HA2015-5
HiMax HA2025-3
HiMax HA2025-3
HiMax HA2025-4

4:1 Planetary APC 11x4.7 3s1p LiPo 7.7 amps 16.6 oz.
4:1 Planetary APC 11x4.7 3s2p LiPo 19.5 amps 38.5 oz.
4:1 Planetary APC 11x4.7 2s1p LiPo 10.8 amps 20.6 oz.
4:1 Planetary APC 11x4.7 3s1p LiPo 11.7 amps 27.7 oz.
4:1 Planetary APC 12x6 3s2p LiPo 19 amps 36.7 oz.
VS/5.3:1 GWS 11x4.7 2s1p LiPo 8.8 amps 15.7 oz.
VS/5.3:1 GWS 12x6 2s1p LiPo 9.9 amps 18.5 oz.
VS/6.6:1 GWS 11x4.7 3s1p LiPo 12 amps 26 oz.
VS/6.6:1 GWS 12x6 3s1p LiPo 12.4 amps 27 oz.
VS/6.6:1 GWS 11x4.7 3s1p LiPo 8.7 amps 21.2 oz.
√2 GWS/6.6:1 GWS 12x6 3s1p LiPo 8.9 amps 22.8 oz.
ct APC 10x4.7 3s2p LiPo 16.4 amps 21.9 oz.
ct APC 10x4.7 3s2p LiPo 13.8 amps 20.7 oz.
600 GWS/5.3:1 GWS 12x6 3s1p LiPo 8.7 amps 20.5 oz.
600 GWS/6.6:1 GWS 12x6 3s1p LiPo 6.5 amps 18.5 oz.
100 GWS/6.6:1 GWS 12x6 3s1p LiPo 11.2 amps 26.4 oz.
100 GWS/5.3:1 GWS 11x4.7 3s1p LiPo 11.6 amps 25.2 oz.
400 GWS/6.6:1 GWS 12x6 2s1p LiPo 10.2 amps 17.8 oz.
236 3.6:1 Planetary APC 11x4.7 3s2p LiPo 14 amps 29.3 oz.
236 3.6:1 Planetary APC 12x6 3s2p LiPo 17 amps 32.2 oz.
236 4.3:1 Planetary APC 11x4.7 3s2p Lipo 20.2 amps 38.1 oz.

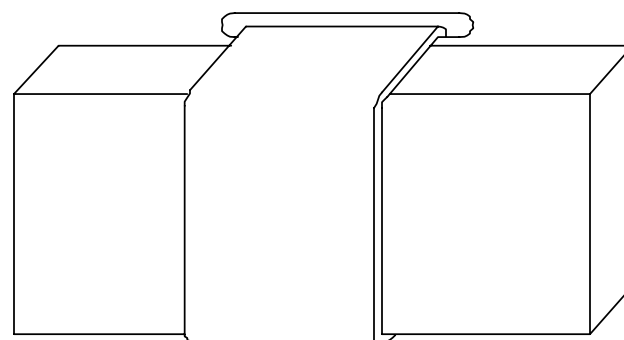
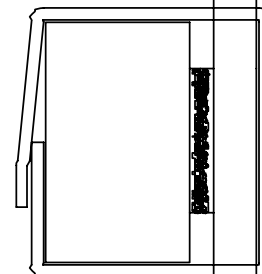




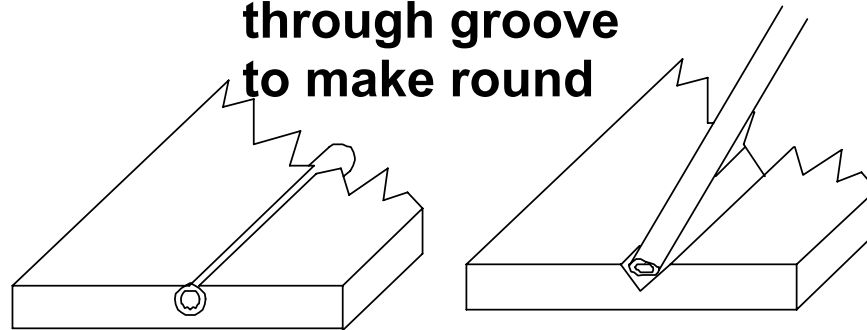


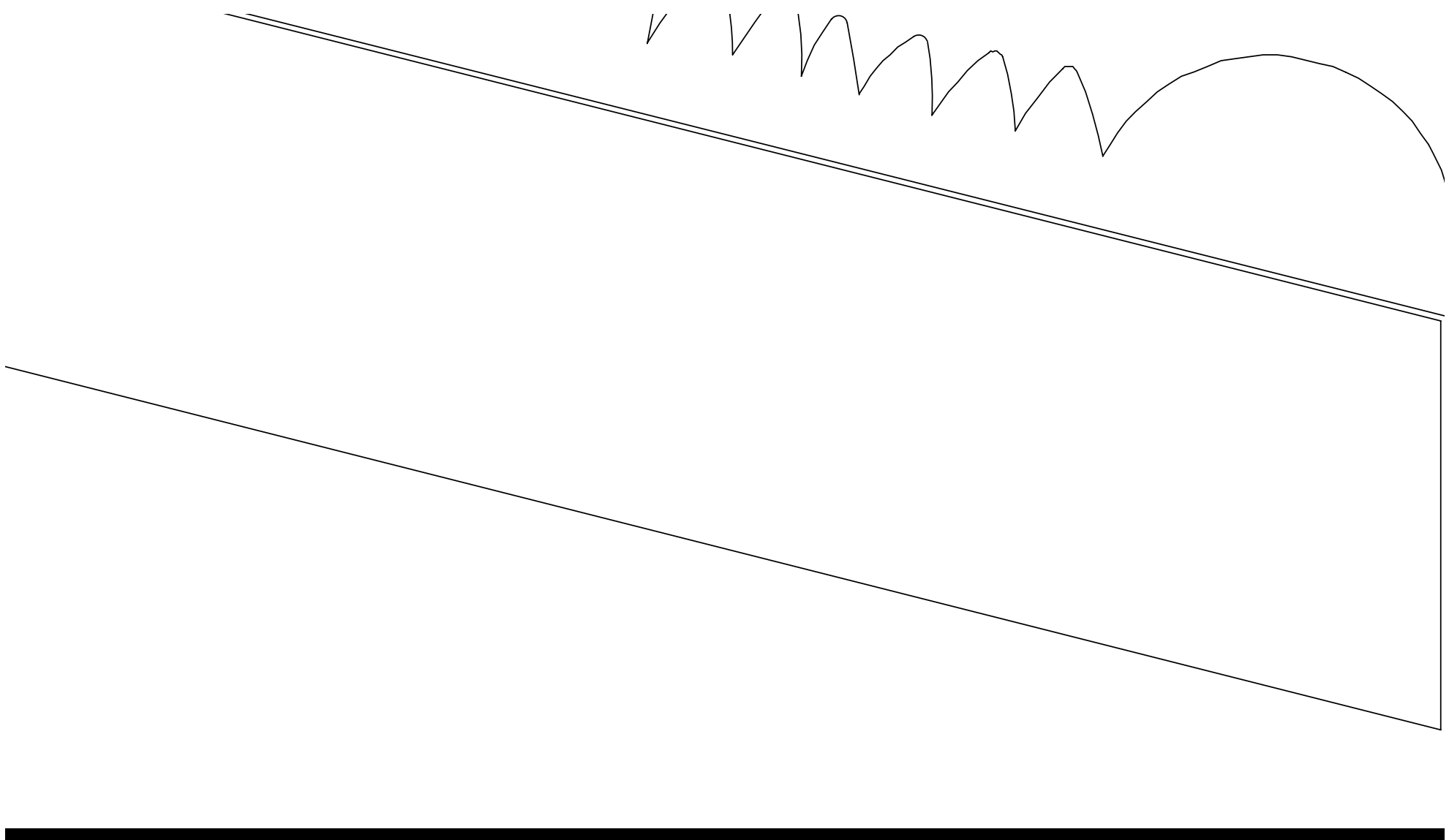


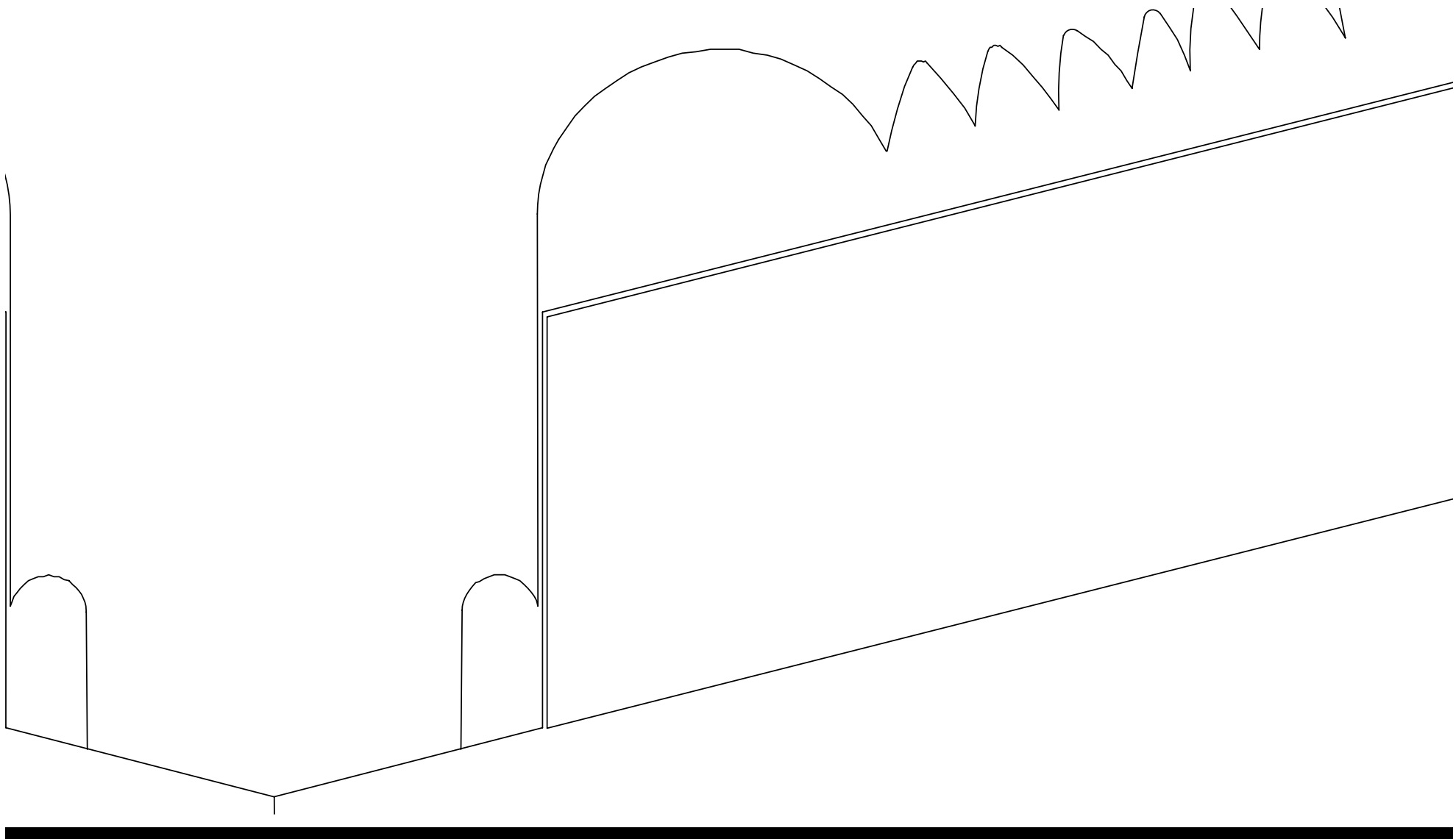
**Mount Battery Pack
with 1" Velcro strap.
Also use adhesive
Velcro on the side of
fuselage and back of
pack to secure in
place.**

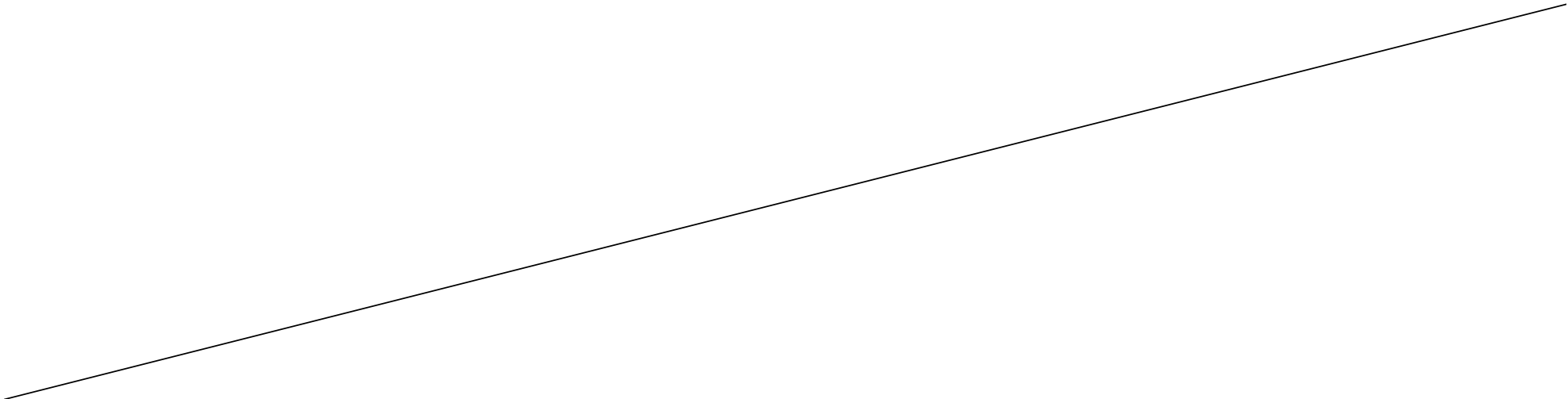
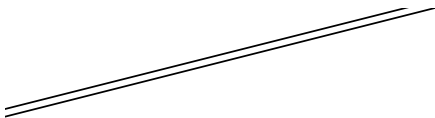


**Cut a "V" groove
in foam for
spars. Pull spar
through groove
to make round**









Specs:

3D FC

Weight	10.5-15.5 oz.
Thrust	24-39 oz.
Radio	4-5 Chanel
Area	301.4 in²
Loading	4.2-7.2 oz/ft²
WWW.3DFOAMY.COM	

The Raven 3D

3DFOAMY

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Designed and Drawn by Levi Jordan
Updated: 03/3/04.