

Specs: VTO (Ver

3D FOAMY

Weight	6.5-15.5 oz.
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Thrust	24-39 oz.
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Radio	4-5 Chanel
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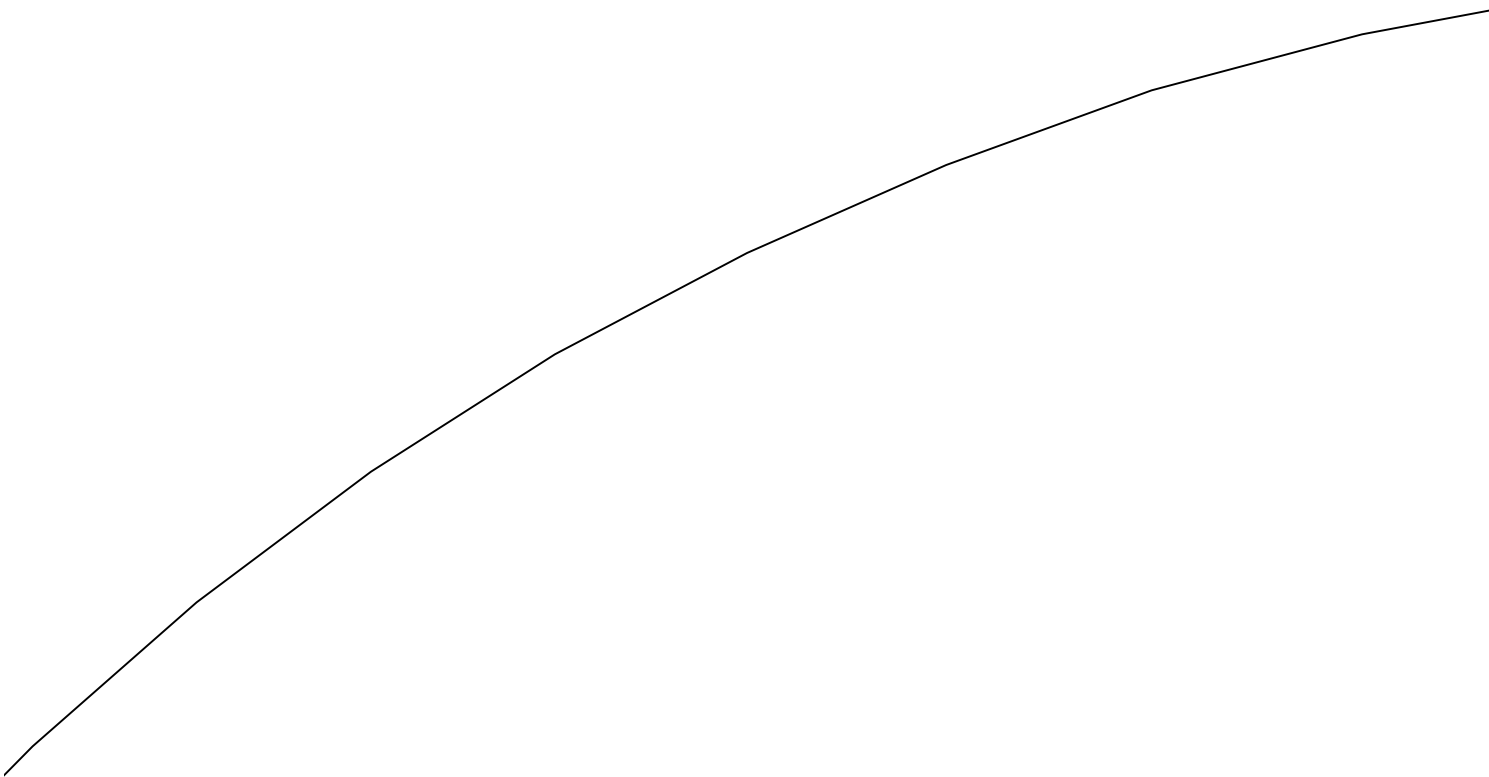
Area	596.5 in2
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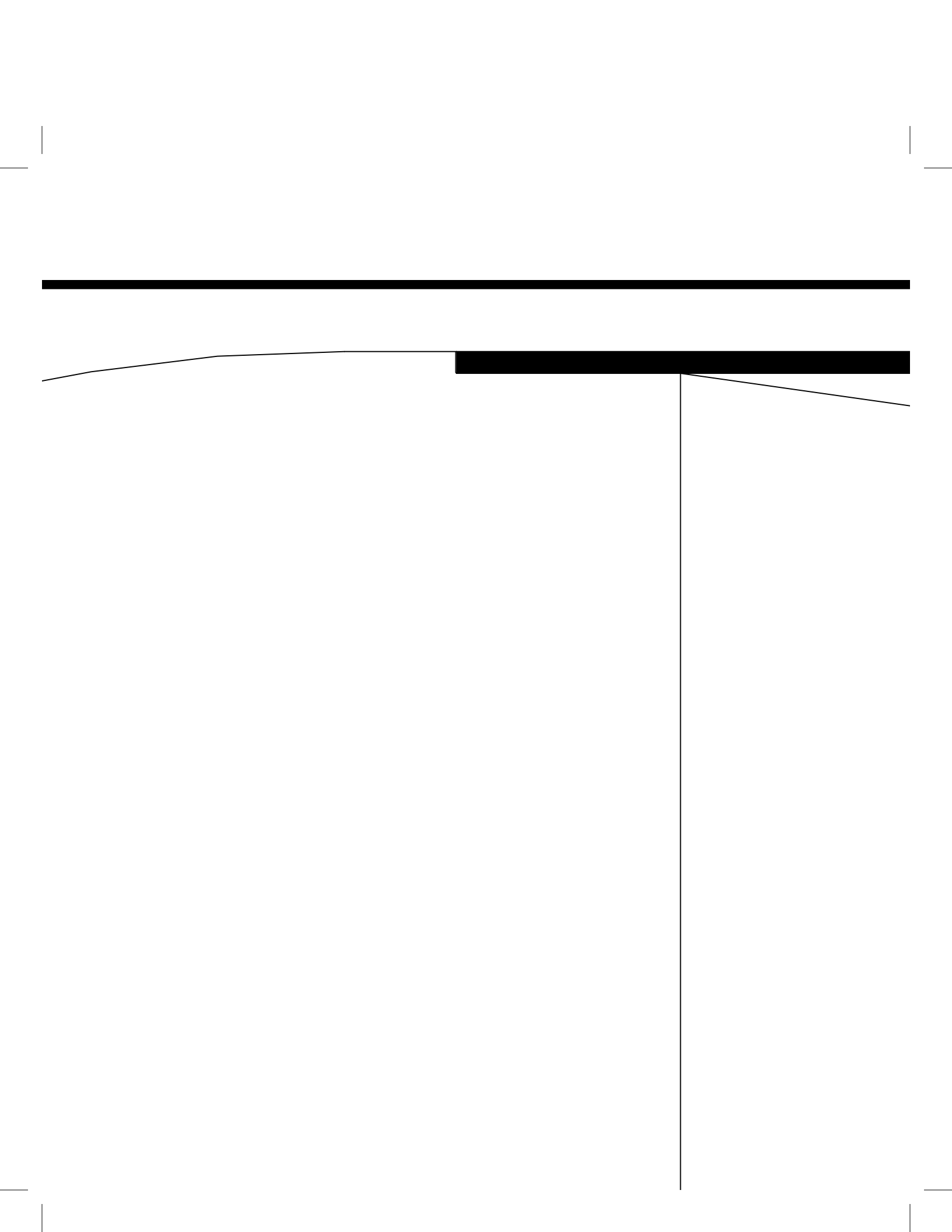
Loading	3.5-6.1 oz/ft2
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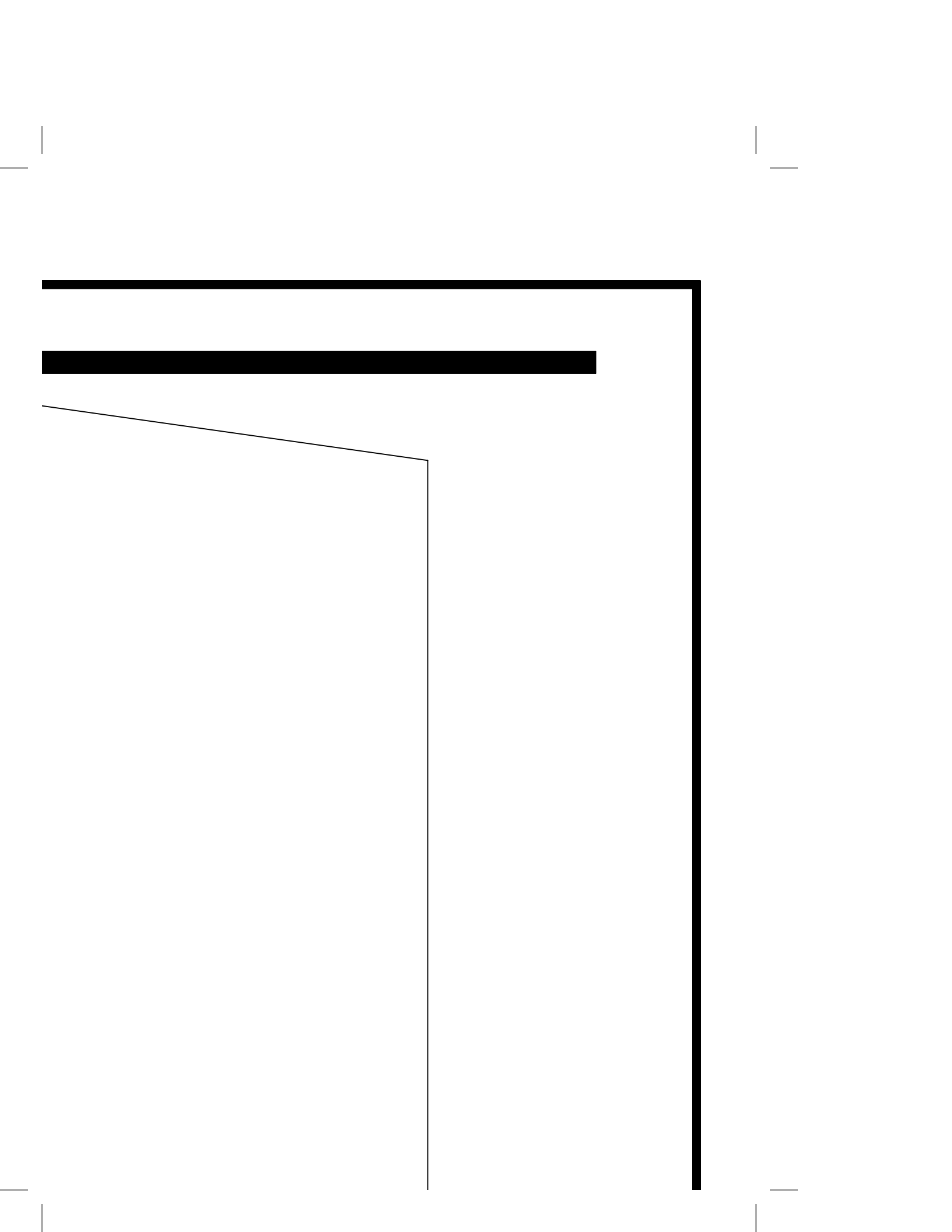
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tical Take Off)

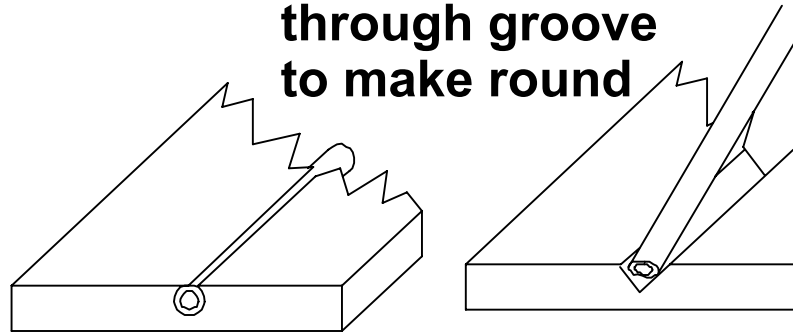
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Designed and Drawn by:
Steve Shumate & Levi Jordan
Updated: 07/11/2004



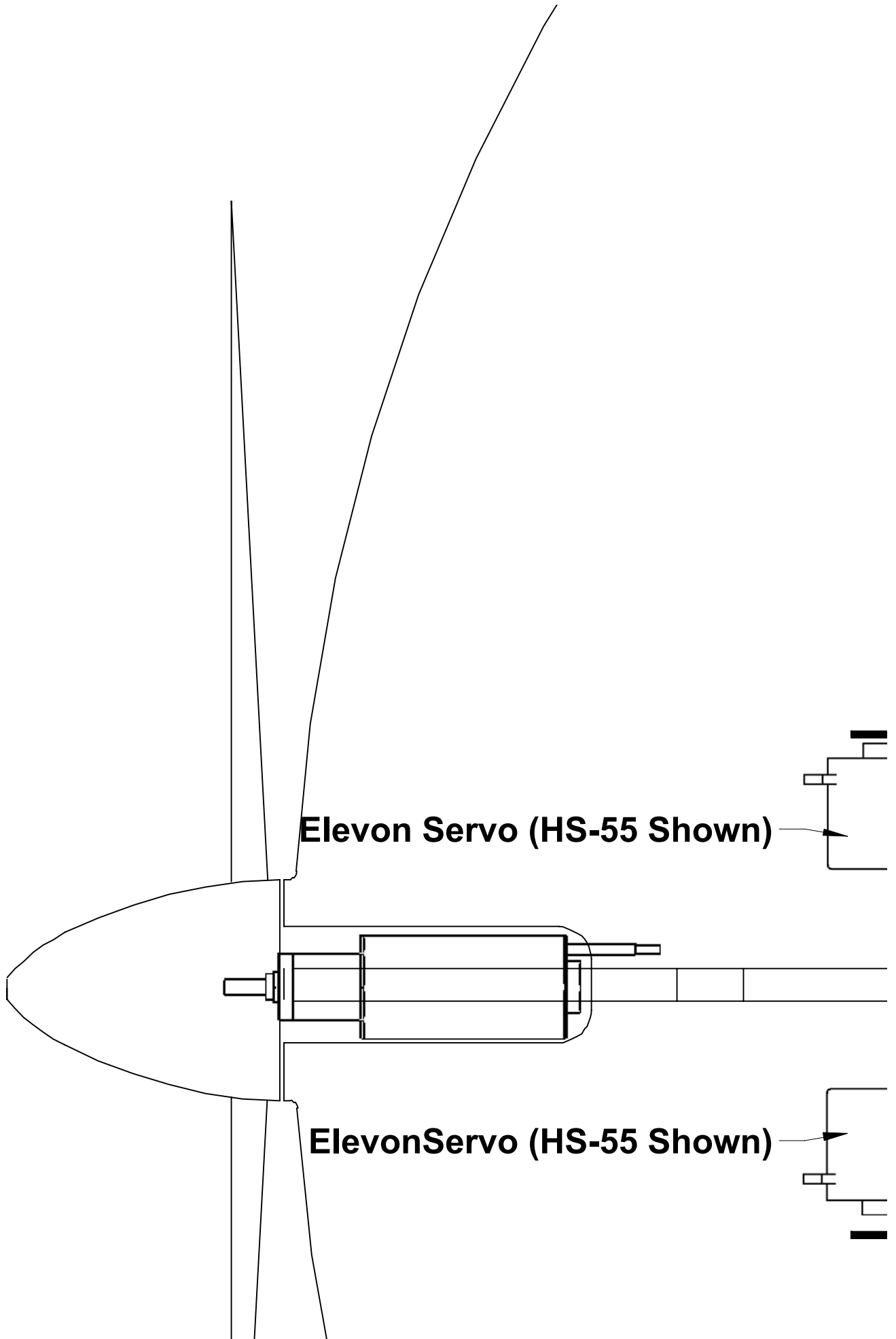


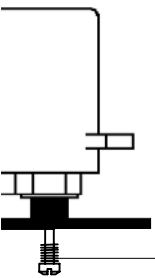
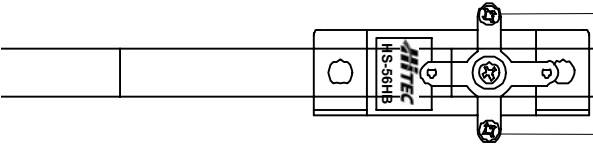
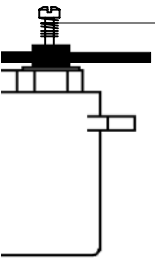


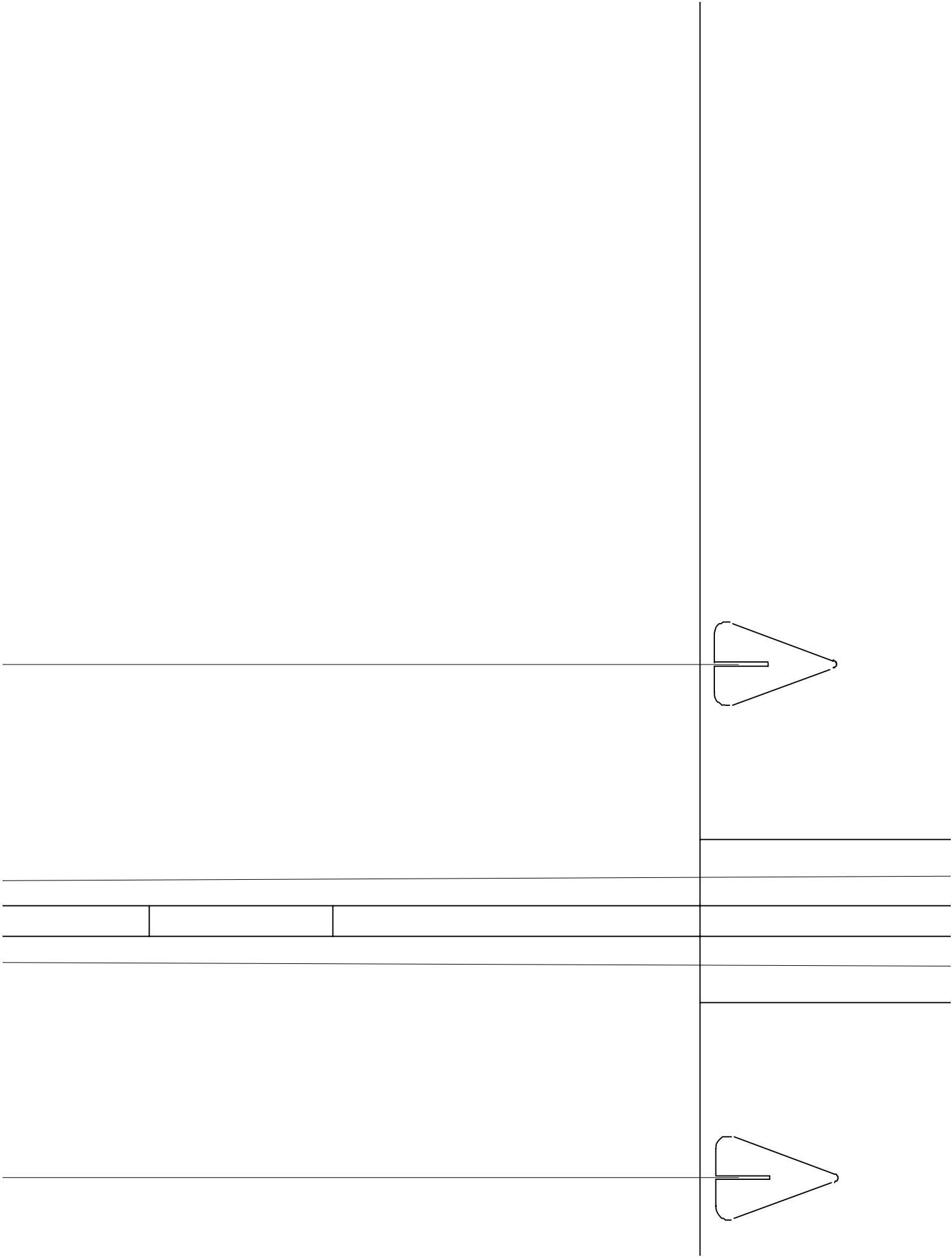
**Cut a "V" groove
in foam for
spars. Pull spar
through groove
to make round**

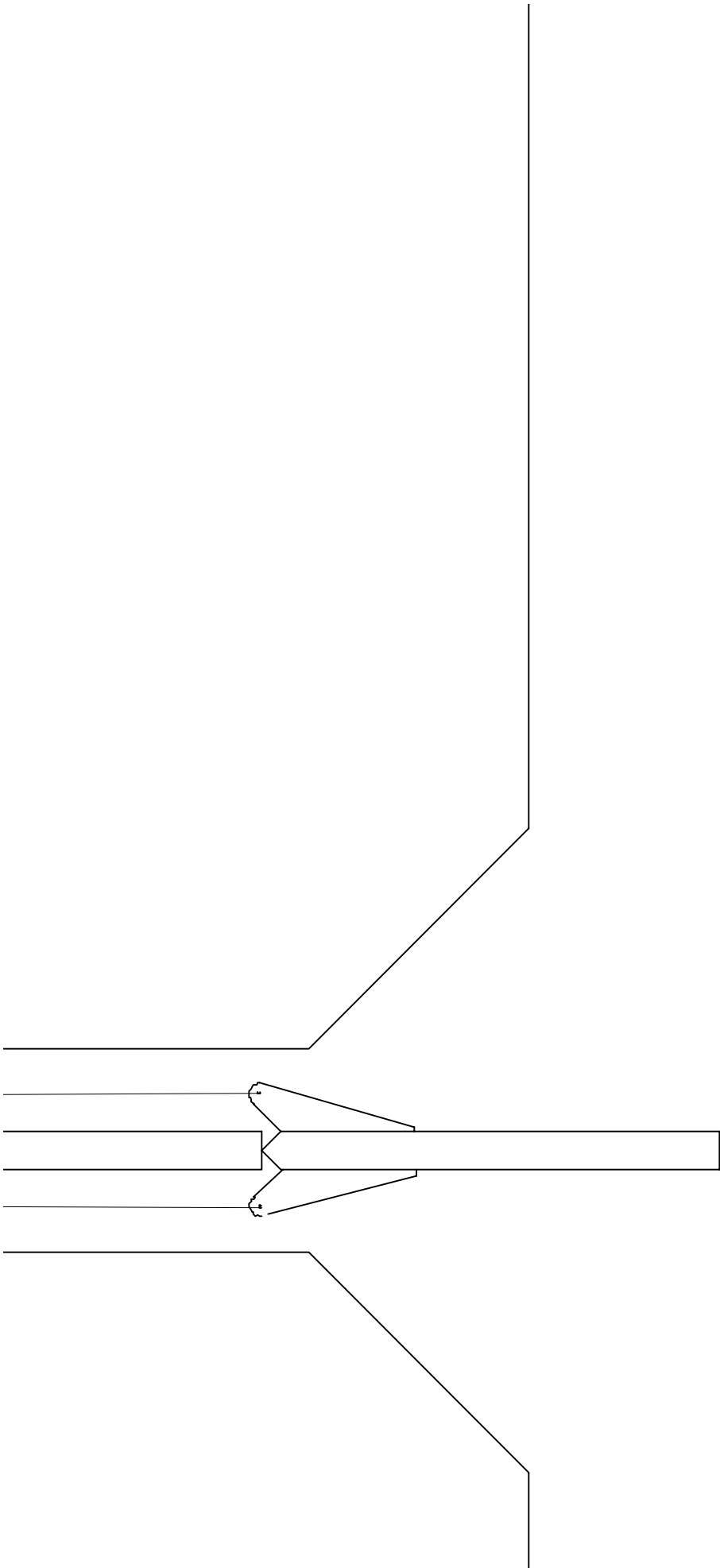


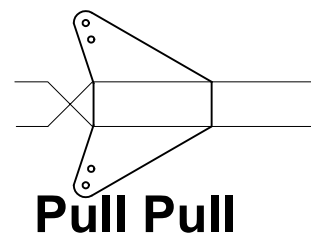
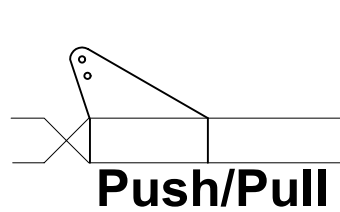
**Cut Control horns from 1/32"
ply or a plastic coffee can lid.**











Motor/Batter

Motor	Gearing	Prop	Battery	Amp	Draw
GWS EPS350C DS	(6.6:1)	GWS 12x6			
GWS EPS350C DS	(6.6:1)	GWS 11x4			
Hacker B20-26S	4:1 Planetary	APC 1			
Hacker B20-31S	4:1 Planetary	APC 1			
Hacker B20-15L	4:1 Planetary	APC 1			
Hacker B20-15L	4:1 Planetary	APC 1			
Hacker B20-18L	4:1 Planetary	APC 1			
Hacker B20-18L	4:1 Planetary	APC 1			
Razor RZ300	GWS/5.3:1	GWS 11x4			
Razor RZ300	GWS/5.3:1	GWS 12x6			
Razor RZ300	GWS/6.6:1	GWS 11x4			
Razor RZ350	GWS/6.6:1	GWS 12x6			
Razor RZ350	GWS/6.6:1	GWS 11x4			
Razor MicroHeli v2	GWS/6.6:1	GWS			

ry Info

w Thrust

6 2s1p Lipo 9.5 17.1 oz.

4.7 3s1p Lipo 11.5 24.3 oz.

1x4.7 3s1p LiPo 11 amps 22.1 oz.

1x4.7 3s1p LiPo 7.7 amps 18.6 oz.

1x4.7 3s2p LiPo 19.5 amps 38.5 oz.

1x4.7 2s1p LiPo 10.8 amps 20.6 oz.

1x4.7 3s1p LiPo 11.7 amps 27.7 oz.

2x6 3s2p LiPo 19 amps 36.7 oz.

7 2s1p LiPo 8.8 amps 15.7 oz.

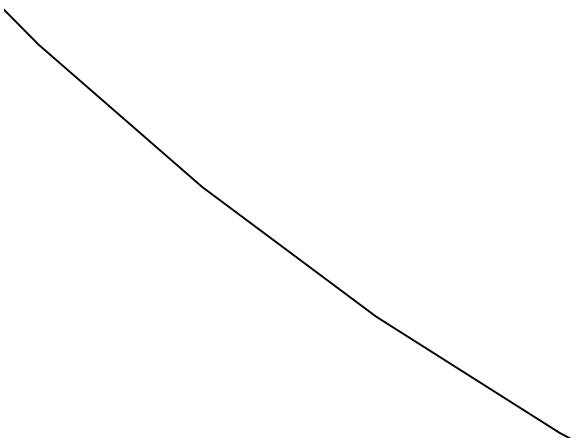
2s1p LiPo 9.9 amps 18.5 oz.

7 3s1p LiPo 12 amps 26 oz.

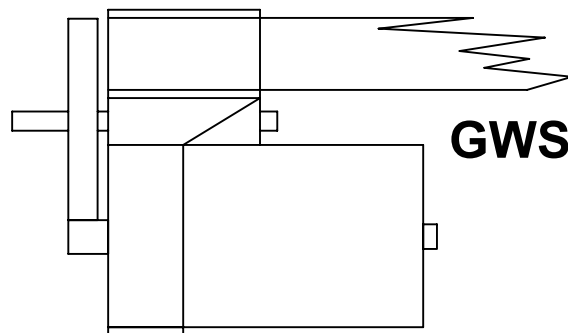
3s1p LiPo 12.4 amps 27 oz.

7 3s1p LiPo 8.7 amps 21.2 oz.

12x6 3s1p LiPo 8.9 amps 22.8 oz.



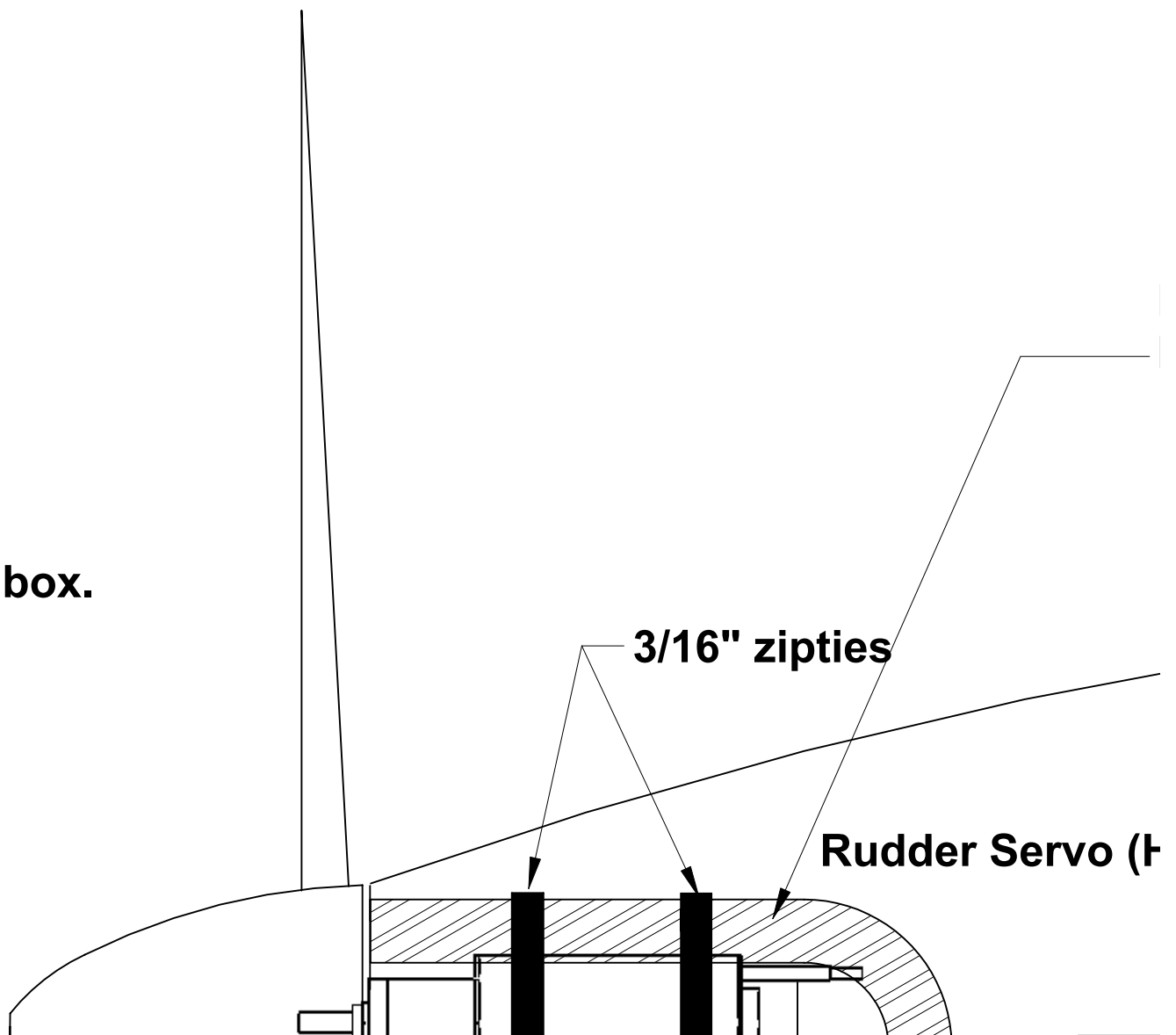
HA201 Micro-Hi V2 GWS/3.3:1 GWS
PJS 3D 500 Direct APC 10x4.7 3s2p
PJS 3D 550 Direct APC 10x4.7 3s2p
HiMax HA2015-3600 GWS/5.3:1 GWS
HiMax HA2015-3600 GWS/6.6:1 GWS
HiMax HA2015-4100 GWS/6.6:1 GWS
HiMax HA2015-4100 GWS/5.3:1 GWS
HiMax HA2015-5400 GWS/6.6:1 GWS
HiMax HA2025-3236 3.6:1 Planetary
HiMax HA2025-3236 3.6:1 Planetary
HiMax HA2025-4236 4.3:1 Planetary



GWS 350 D moto

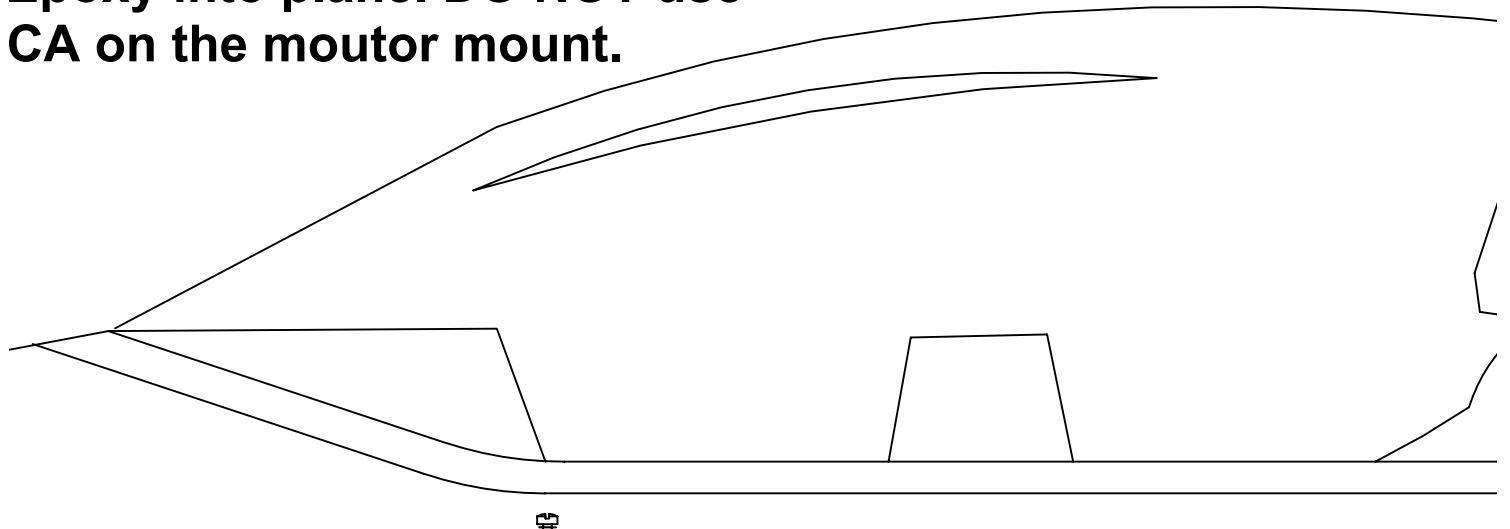
12x6 3s1p LiPo 8.7 amps 20.5 oz.
LiPo 16.4 amps 21.9 oz.
LiPo 13.8 amps 20.7 oz.
S 12x6 3s1p LiPo 8.7 amps 20.5 oz.
S 12x6 3s1p LiPo 6.5 amps 18.5 oz.
S 12x6 3s1p LiPo 11.2 amps 26.4 oz.
S 11x4.7 3s1p LiPo 11.6 amps 25.2 oz.
S 12x6 2s1p LiPo 10.2 amps 17.8 oz.
APC 11x4.7 3s2p LiPo 14 amps 29.3 oz.
APC 12x6 3s2p LiPo 17 amps 32.2 oz.
APC 11x4.7 3s2p Lipo 20.2 amps 38.1 oz.

or Gear box.

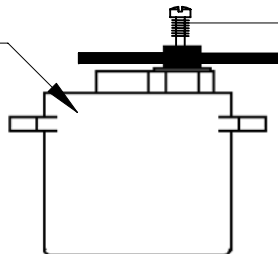



**All hinging for control
tape or actual hinge
points epoxied in place
and covered**

**Laser cut 1/4" birch motor block.
Epoxy into plane. DO NOT use
CA on the motor mount.**



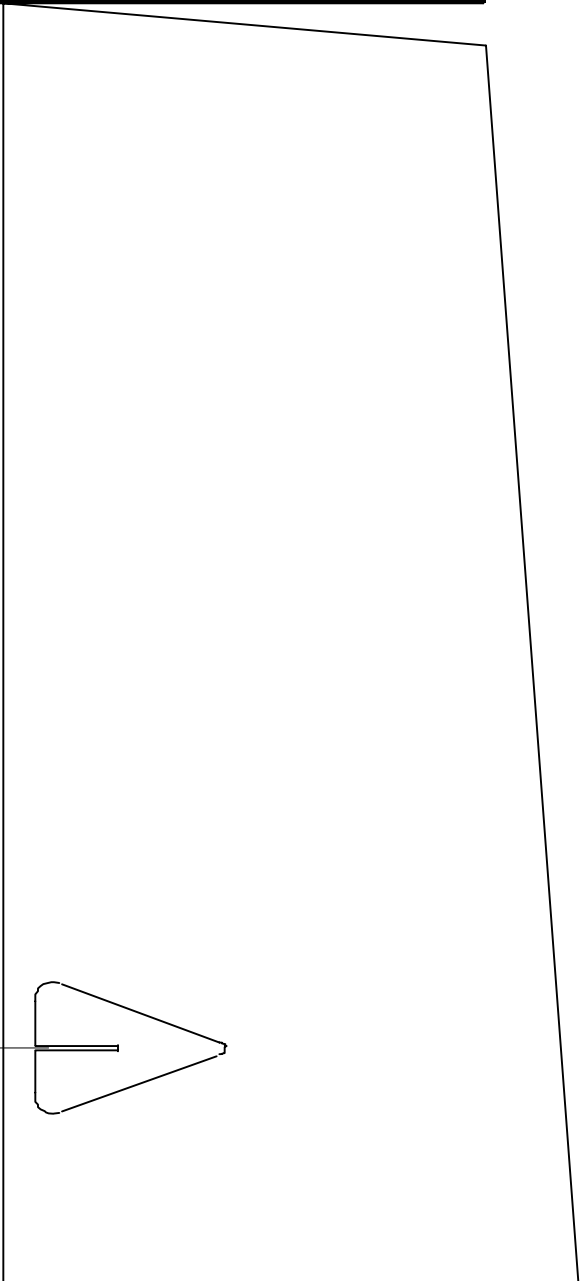
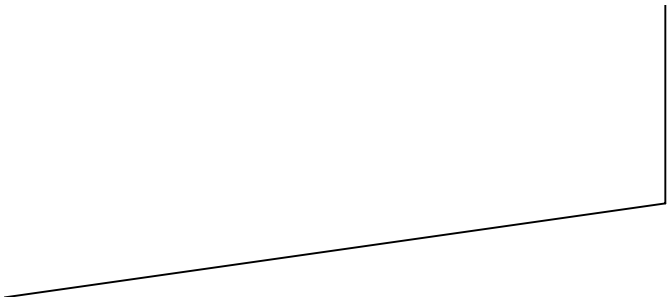
IS-55 Shown)



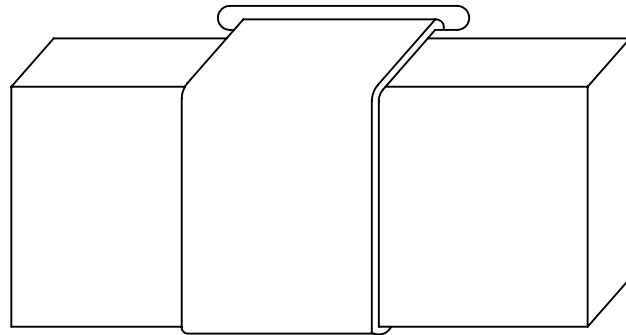
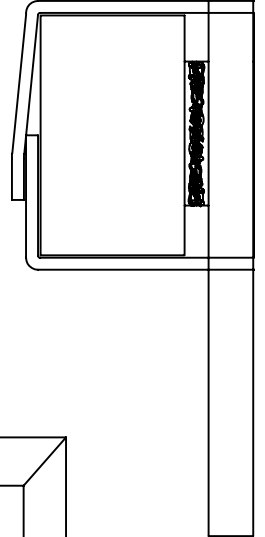


Control surfaces can be packing
ages. I prefer robust hinge
place for the added longevity
control freeness.

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



6

5

4

3

2

1

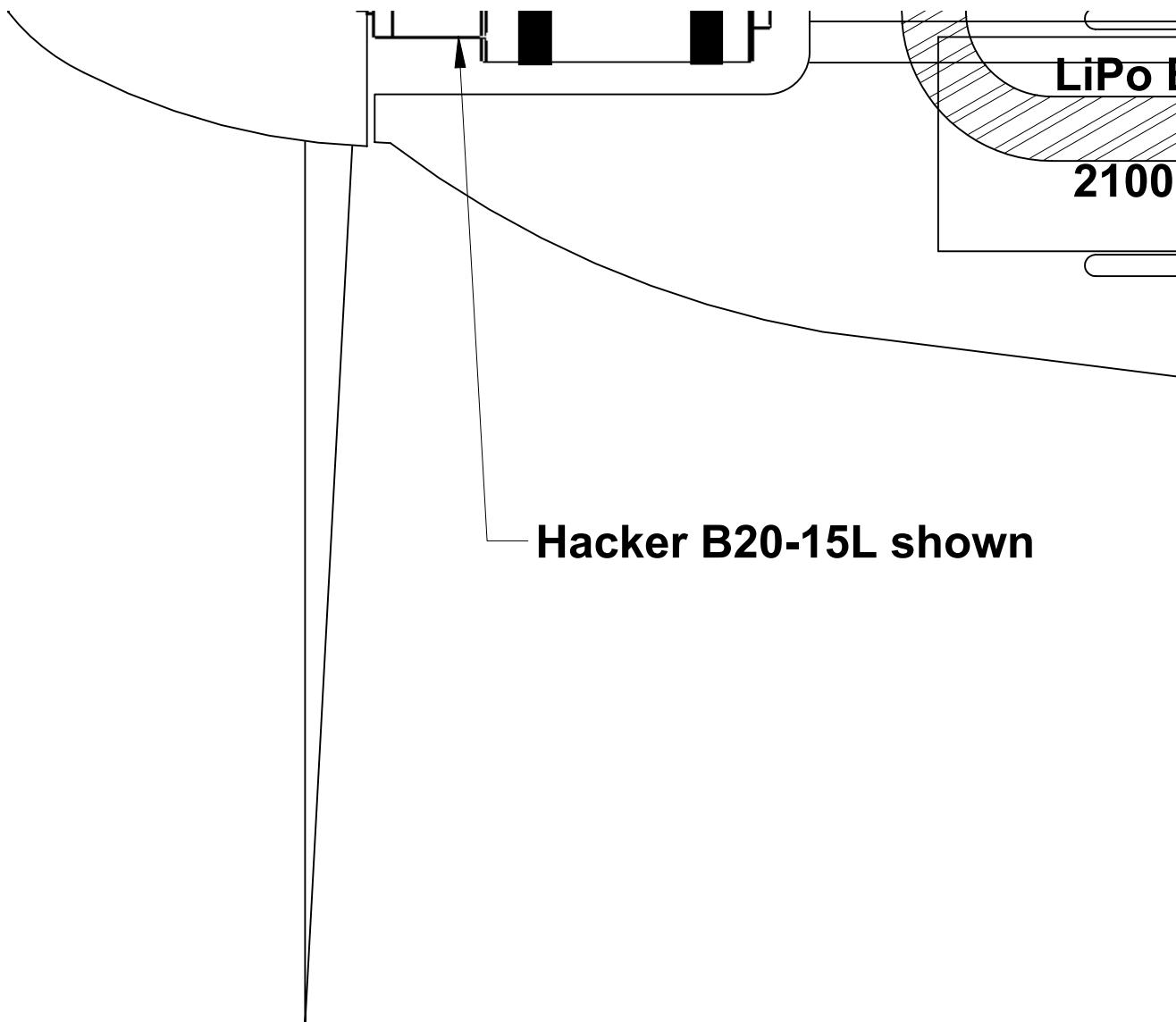
1

2

3

4

5



LiPo B

2100

Hacker B20-15L shown

6



Battery

(3s2p)

Notes on the fuse:

Make sure to use 5-15 minute epoxy for the main parts...foam CA are not strong enough, and will fail under the torque.

