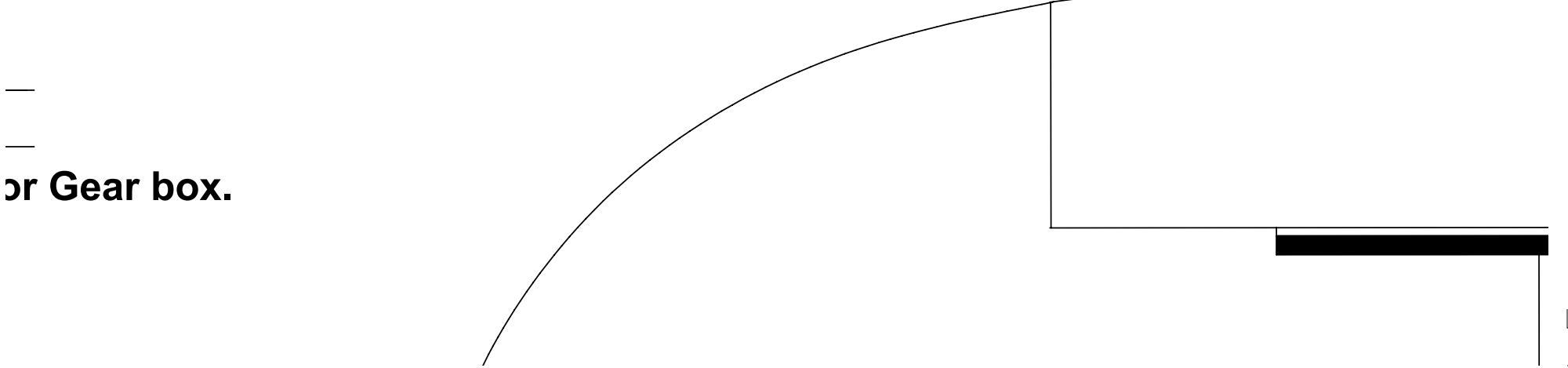
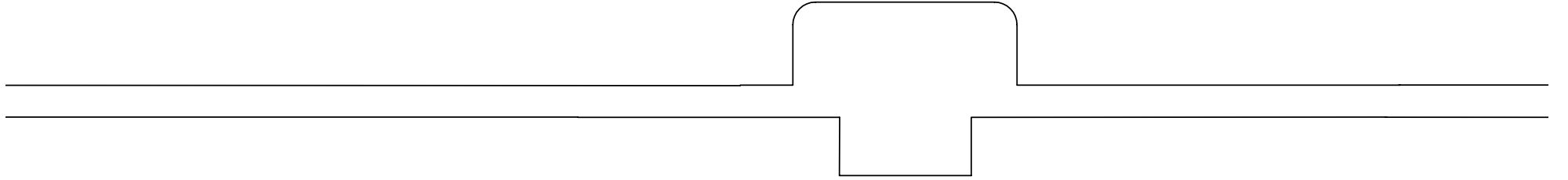
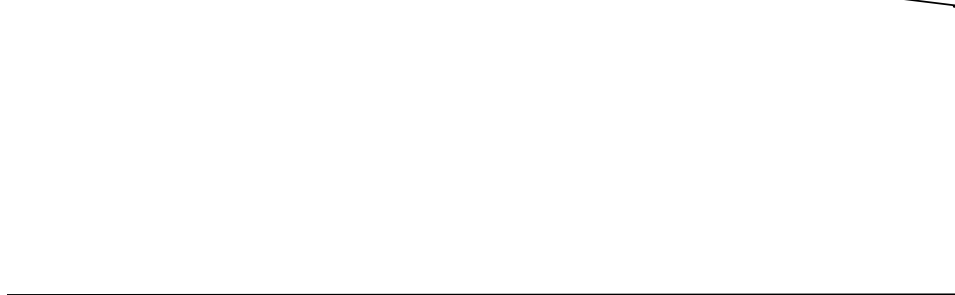
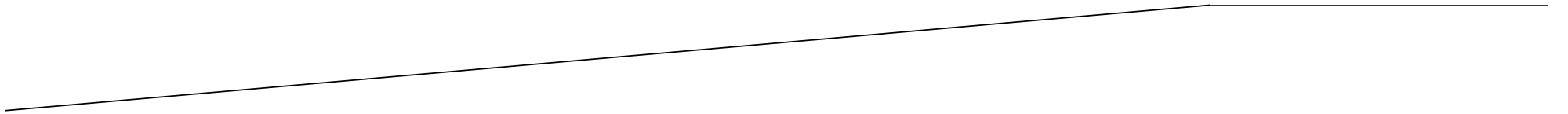
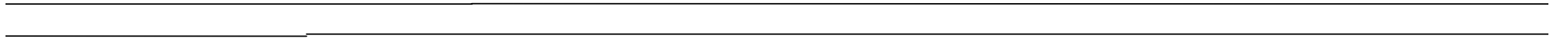
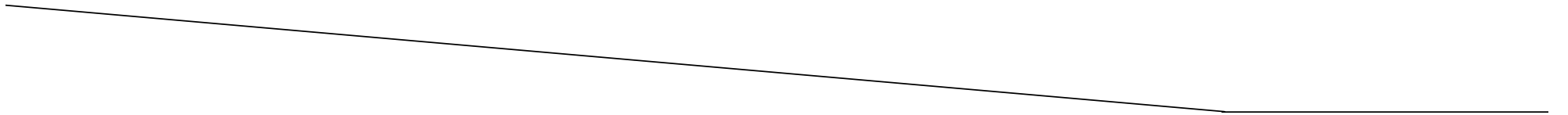


**GWS 350 D motor**



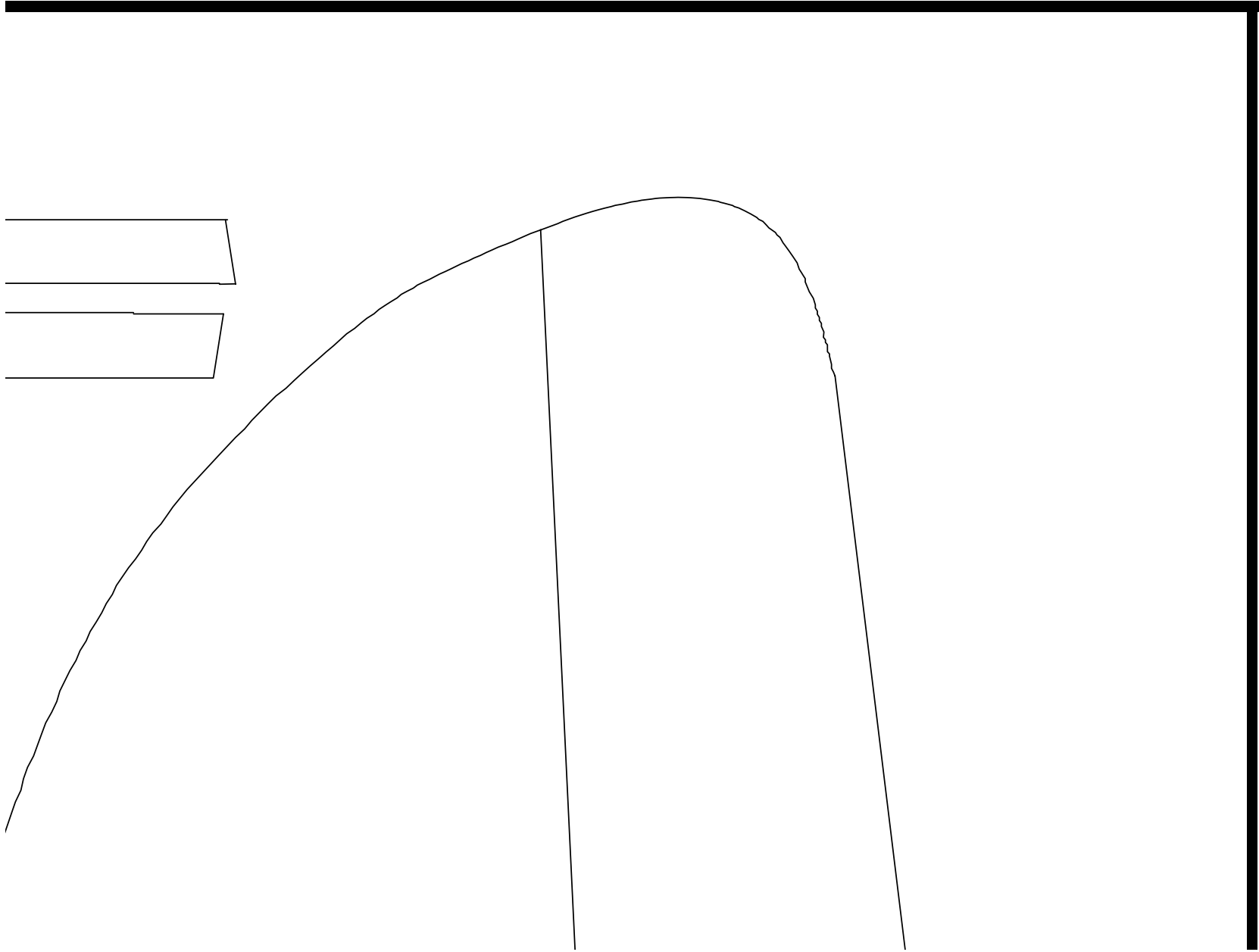
or Gear box.





IL

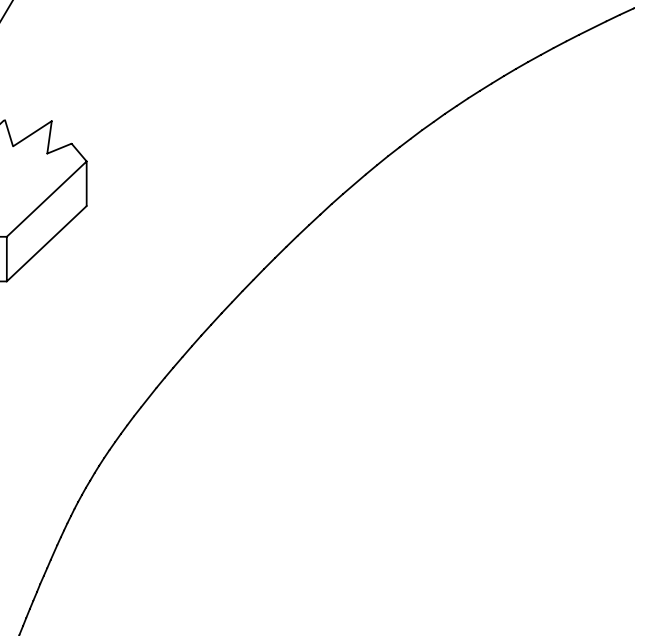
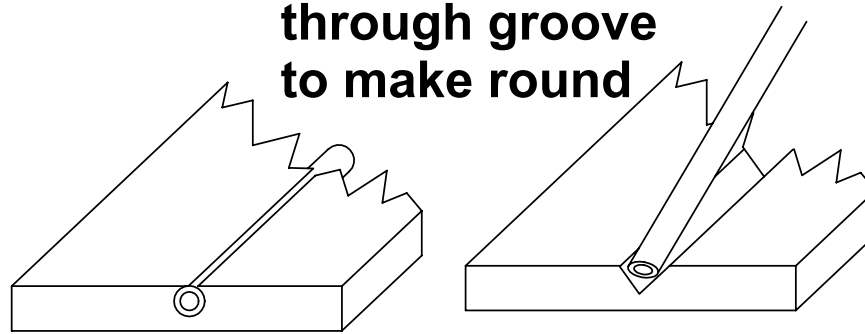
IL

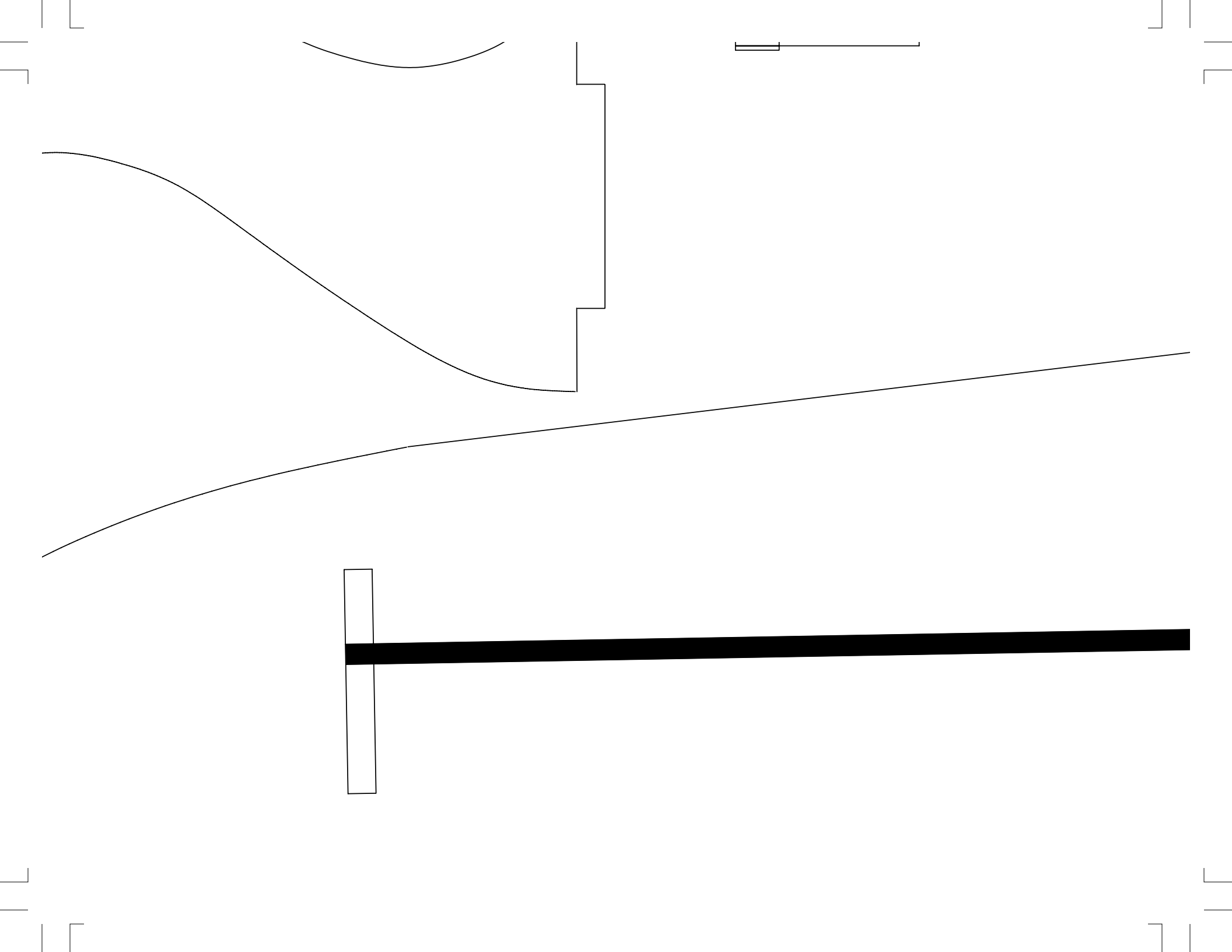


IL

IL

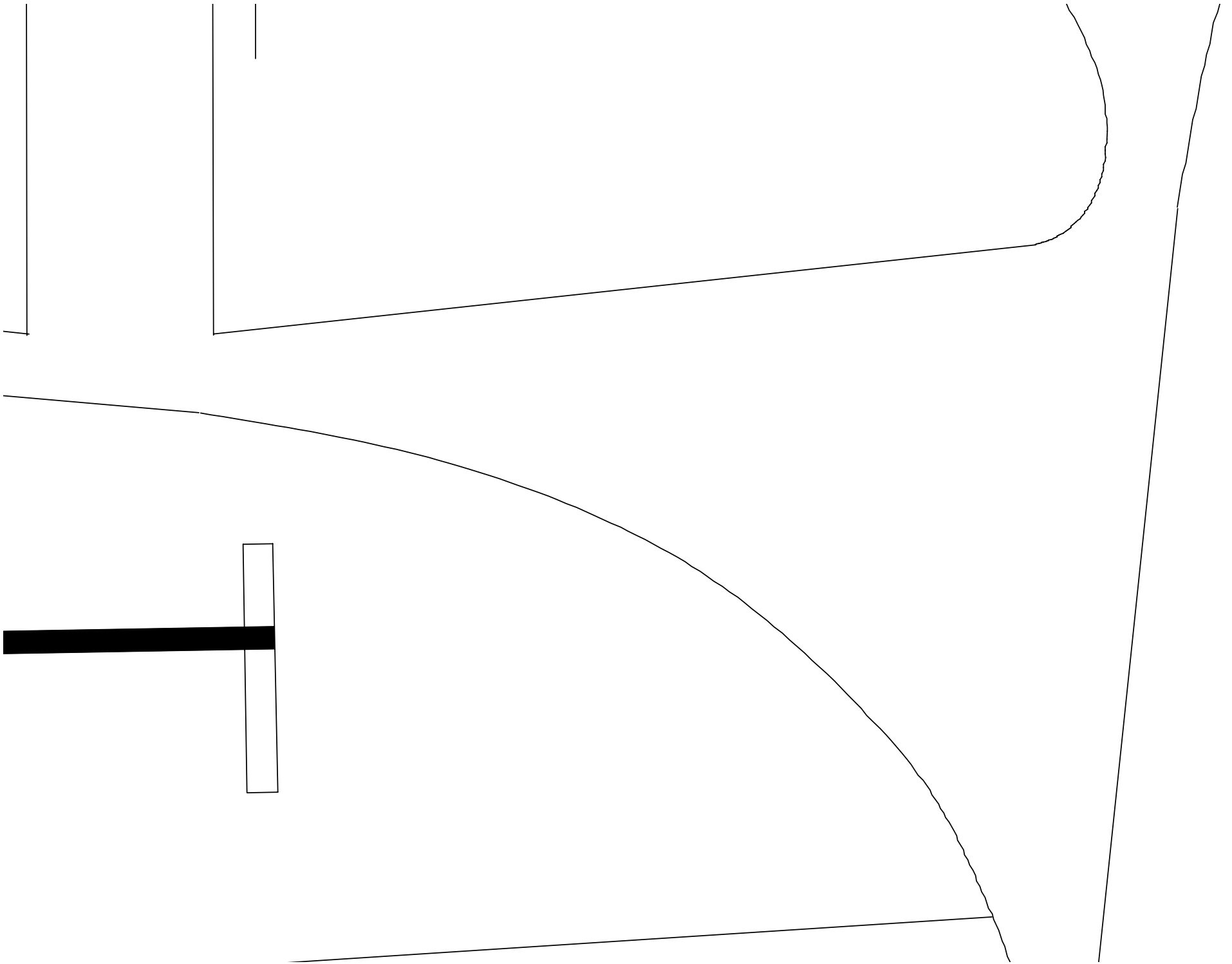
**Cut a "V" groove  
in foam for  
spars. Pull spar  
through groove  
to make round**

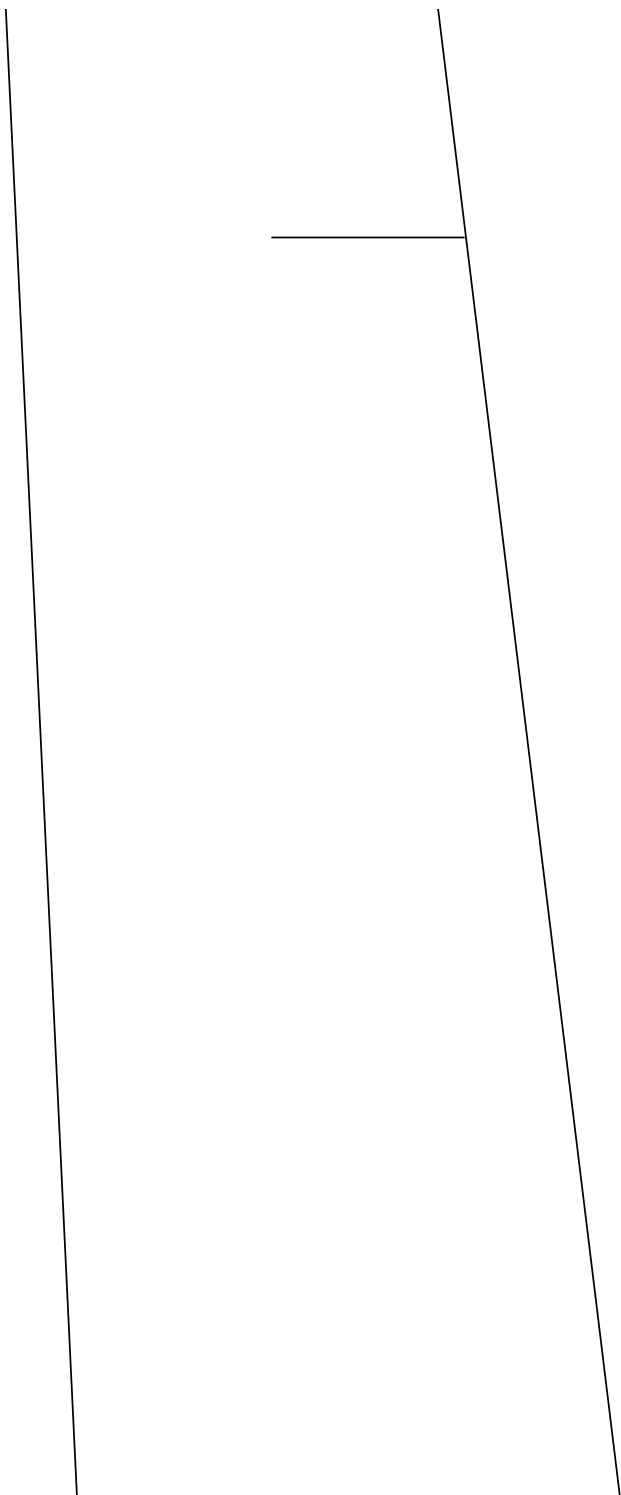
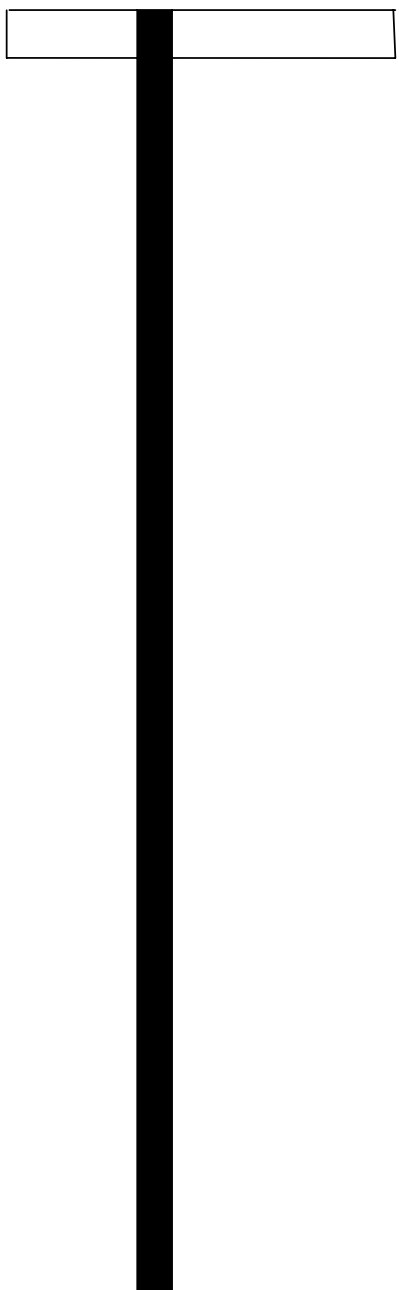








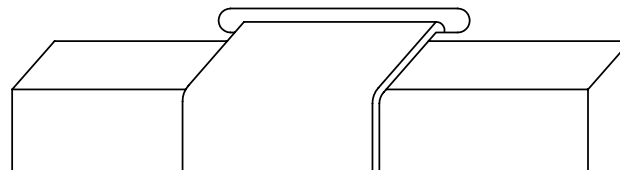
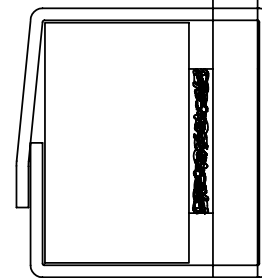


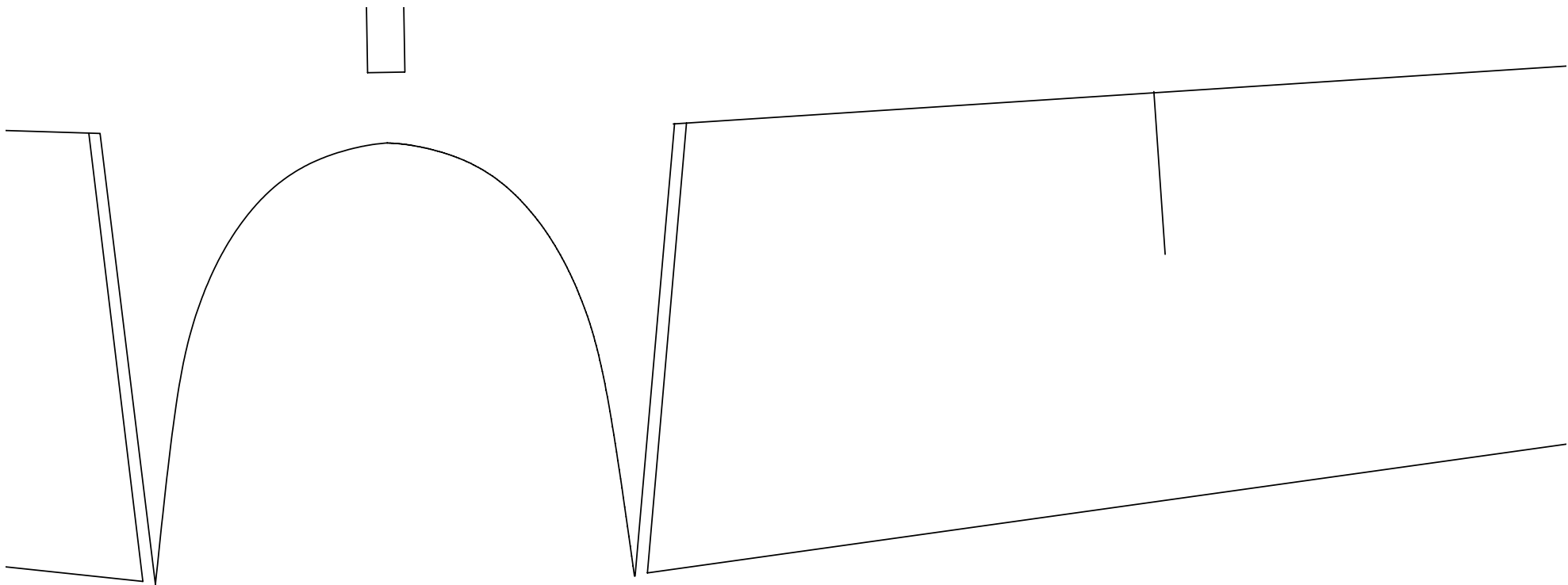


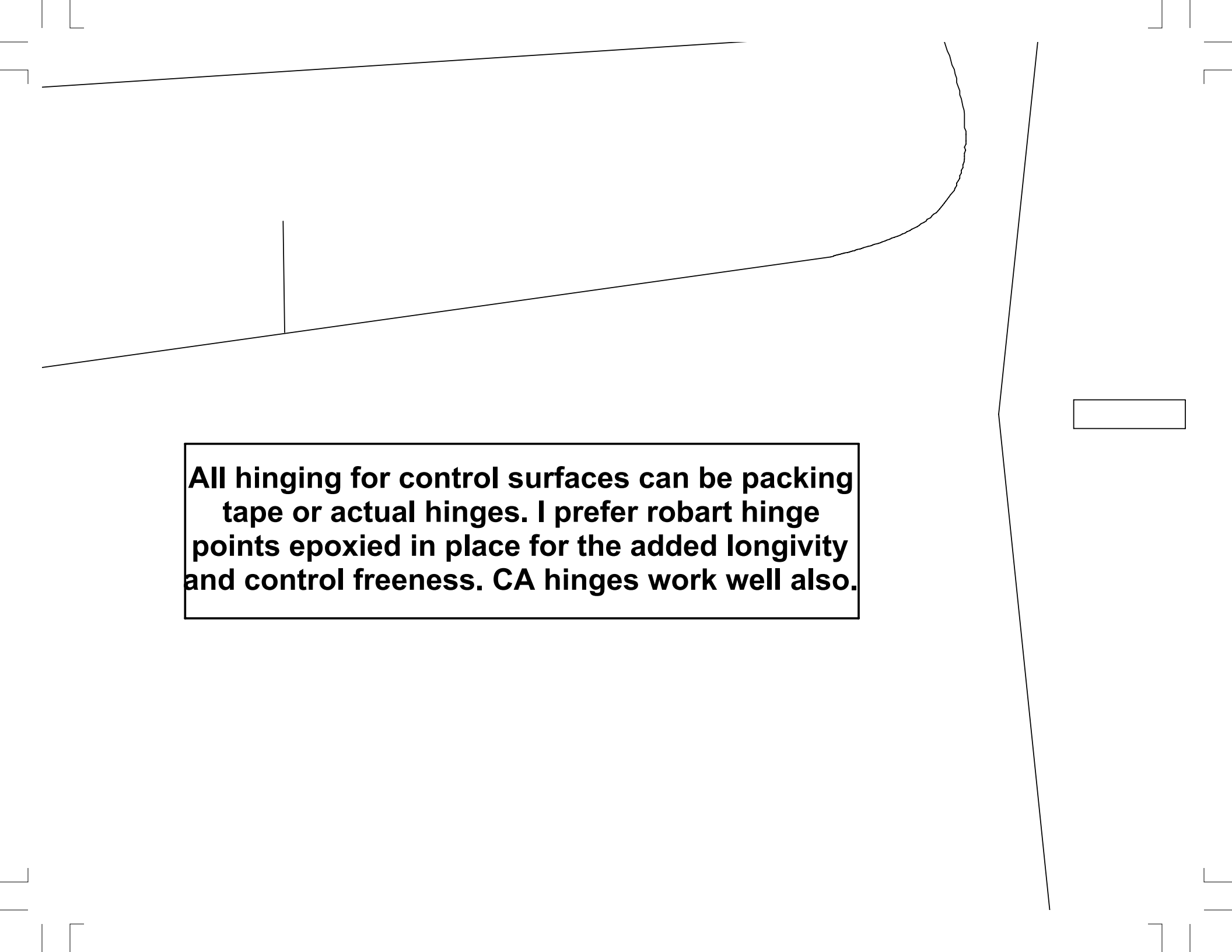
Motor	Gearing	Prop	Battery	Amp Draw	Thrust
GWS EPS350C DS	(6.6:1)	GWS 12x6	2s1p Lipo	9.5	17.1 oz.
GWS EPS350C DS	(6.6:1)	GWS 11x4.7	3s1p Lipo	11.5	24.3 oz.
Hacker B20-26S	4:1 Planetary	APC 11x4.7	3s1p LiPo	11 amp	
Hacker B20-31S	4:1 Planetary	APC 11x4.7	3s1p LiPo	7.7 amp	
Hacker B20-15L	4:1 Planetary	APC 11x4.7	3s2p LiPo	19.5 am	
Hacker B20-15L	4:1 Planetary	APC 11x4.7	2s1p LiPo	10.8 am	
Hacker B20-18L	4:1 Planetary	APC 11x4.7	3s1p LiPo	11.7 am	
Hacker B20-18L	4:1 Planetary	APC 12x6	3s2p LiPo	19 amps	
Razor RZ300	GWS/5.3:1	GWS 11x4.7	2s1p LiPo	8.8 amps	15 oz.
Razor RZ300	GWS/5.3:1	GWS 12x6	2s1p LiPo	9.9 amps	18.5 oz.
Razor RZ300	GWS/6.6:1	GWS 11x4.7	3s1p LiPo	12 amps	26 oz.
Razor RZ350	GWS/6.6:1	GWS 12x6	3s1p LiPo	12.4 amps	27 oz.
Razor RZ350	GWS/6.6:1	GWS 11x4.7	3s1p LiPo	8.7 amps	21 oz.
Razor MicroHeli v2	GWS/6.6:1	GWS 12x6	3s1p LiPo	8.9 amps	
PJS 3D 500	Direct	APC 10x4.7	3s2p LiPo	16.4 amps	21.9 oz.
PJS 3D 550	Direct	APC 10x4.7	3s2p LiPo	13.8 amps	20.7 oz.
HiMax HA2015-3600	GWS/5.3:1	GWS 12x6	3s1p LiPo	8.7 am	
HiMax HA2015-3600	GWS/6.6:1	GWS 12x6	3s1p LiPo	8.5 am	

oz.  
3 oz.  
nps 22.1 oz.  
mps 18.6 oz.  
amps 38.5 oz.  
amps 20.6 oz.  
amps 27.7 oz.  
s 36.7 oz.  
15.7 oz.  
8.5 oz.  
26 oz.  
27 oz.  
21.2 oz.  
nps 22.8 oz.  
oz.  
oz.  
amps 20.5 oz.  
amps 18.5 oz.

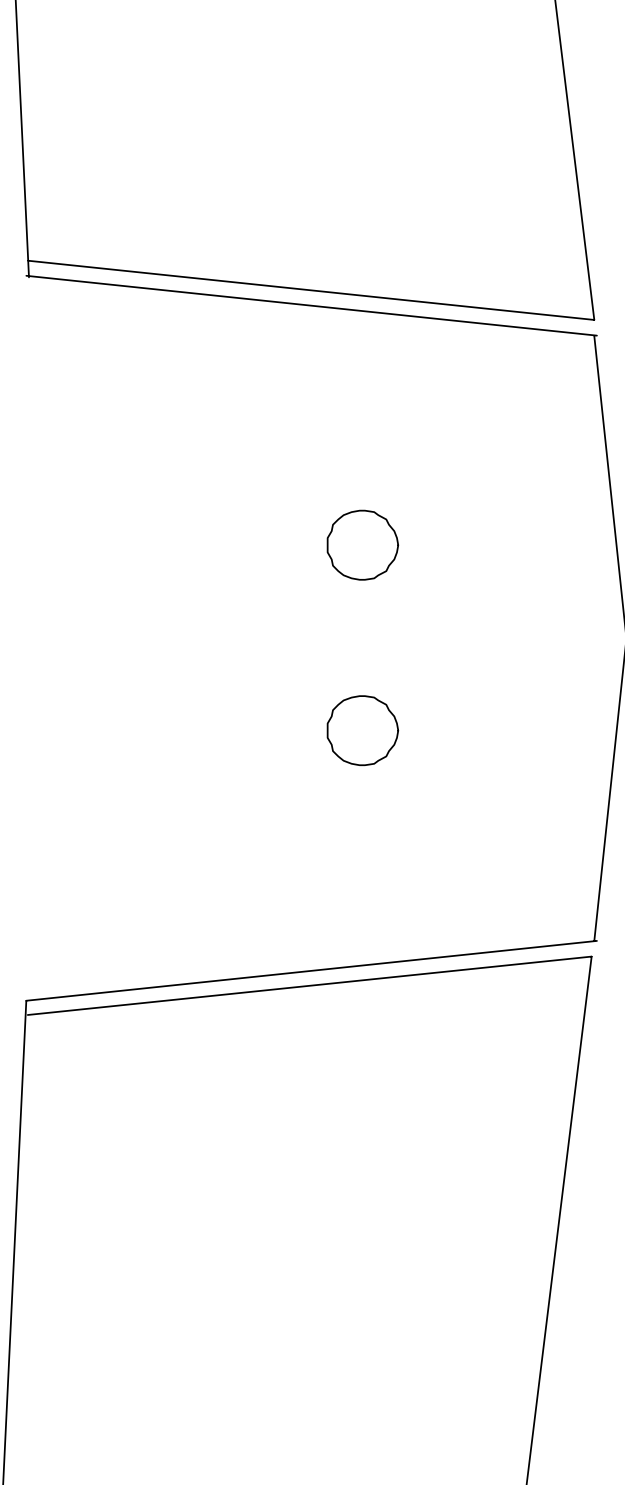
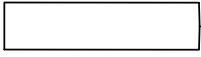
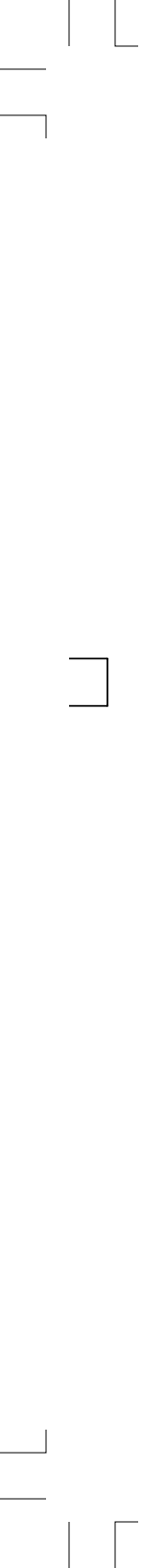
**Mount Battery Pack  
with 1" Velcro strap.  
Also use adhesive  
Velcro on the side of  
fuselage and back of  
pack to secure in  
place.**





A technical drawing of a curved control surface, possibly an aileron or flap. The drawing shows a long, thin, curved shape with a vertical line extending downwards from its upper surface. To the right of the main shape is a vertical line that is slightly curved at the top and bottom. A small rectangular box is located to the right of the main shape, below the vertical line. The text is enclosed in a rectangular box in the lower-left quadrant of the image.

**All hinging for control surfaces can be packing tape or actual hinges. I prefer robart hinge points epoxied in place for the added longevity and control freeness. CA hinges work well also.**

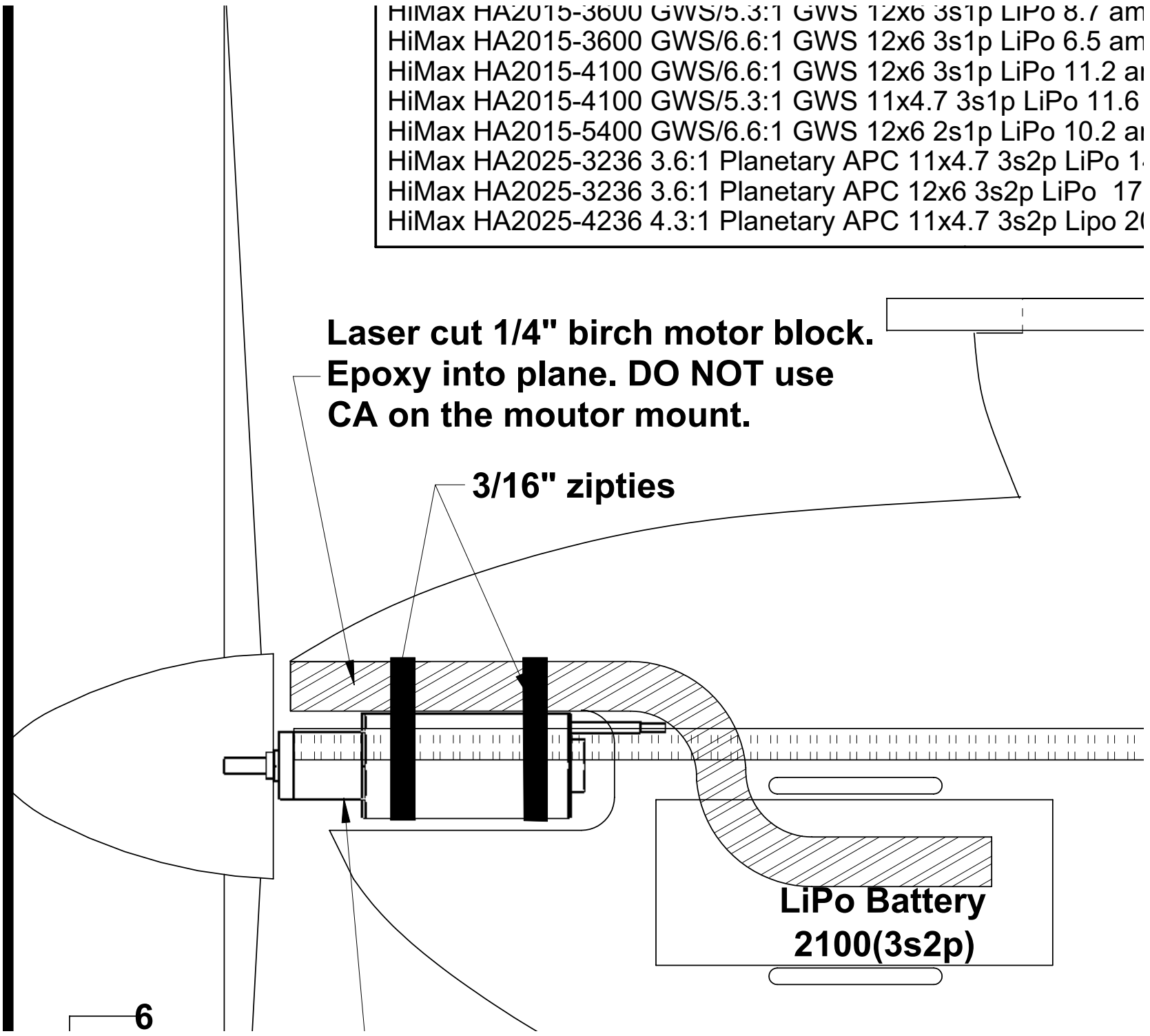


HiMax HA2015-3600	GWS/5.3:1	GWS	12x6	3s1p	LiPo	8.7	am
HiMax HA2015-3600	GWS/6.6:1	GWS	12x6	3s1p	LiPo	6.5	am
HiMax HA2015-4100	GWS/6.6:1	GWS	12x6	3s1p	LiPo	11.2	am
HiMax HA2015-4100	GWS/5.3:1	GWS	11x4.7	3s1p	LiPo	11.6	am
HiMax HA2015-5400	GWS/6.6:1	GWS	12x6	2s1p	LiPo	10.2	am
HiMax HA2025-3236	3.6:1	Planetary APC	11x4.7	3s2p	LiPo	17	am
HiMax HA2025-3236	3.6:1	Planetary APC	12x6	3s2p	LiPo	17	am
HiMax HA2025-4236	4.3:1	Planetary APC	11x4.7	3s2p	Lipo	20	am

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

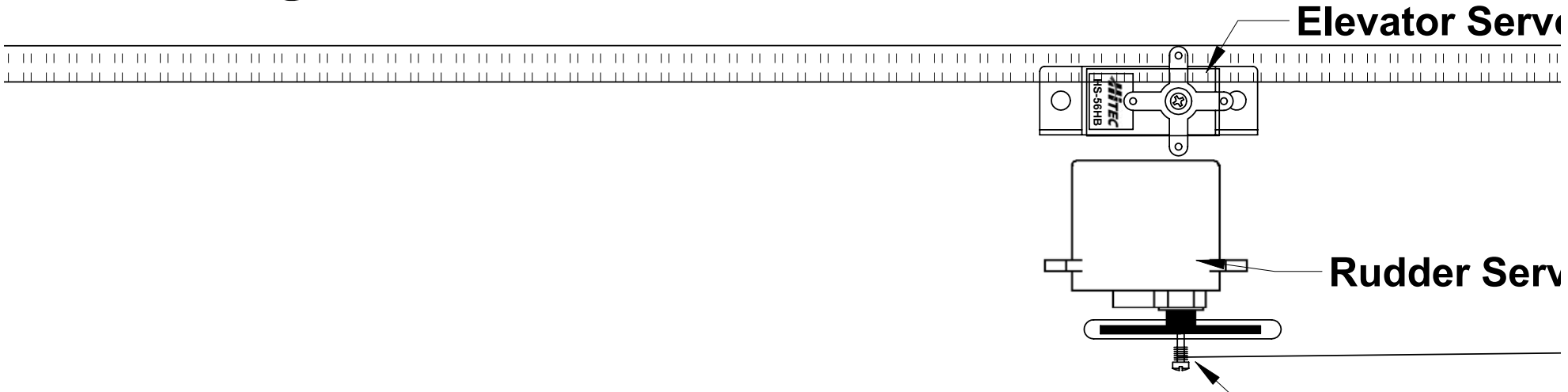
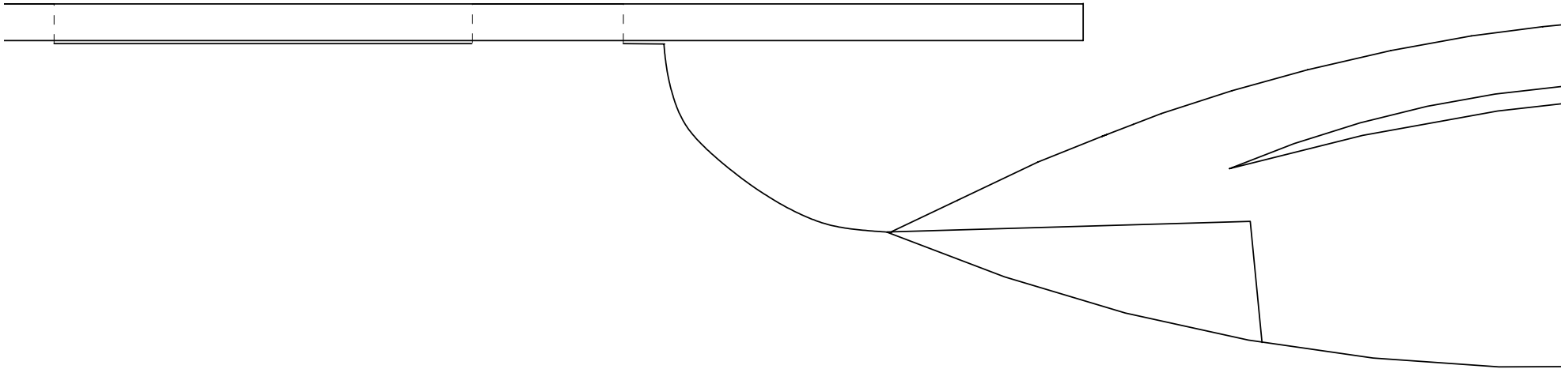
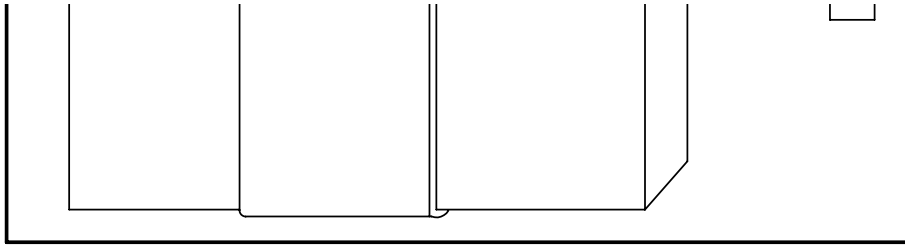
**3/16" zipties**

**LiPo Battery  
2100(3s2p)**



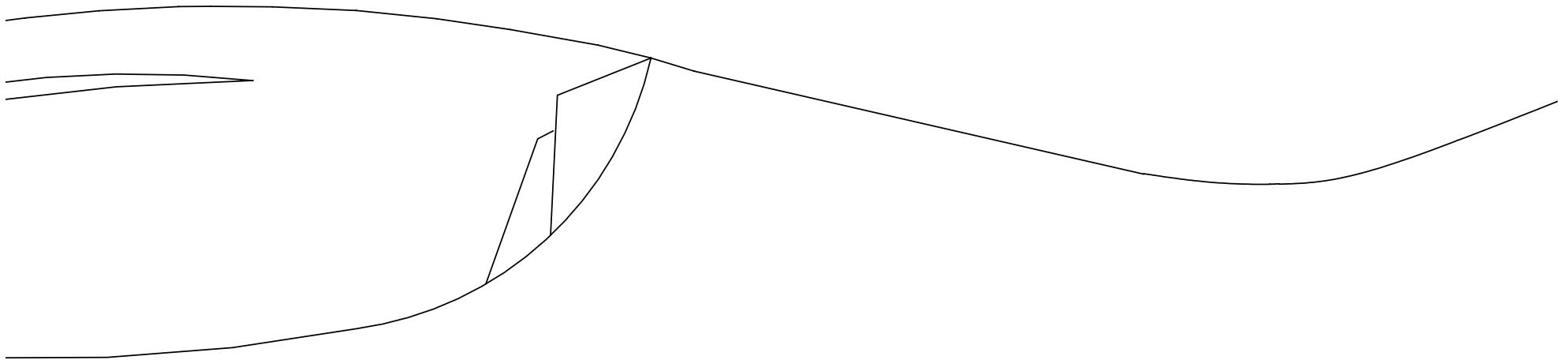


amps 20.5 oz.  
amps 18.5 oz.  
? amps 26.4 oz.  
1.6 amps 25.2 oz.  
? amps 17.8 oz.  
o 14 amps 29.3 oz.  
17 amps 32.2 oz.  
o 20.2 amps 38.1 oz.

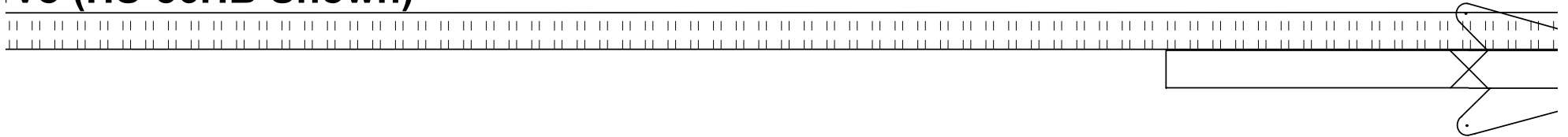


## Notes on the fuse:

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



ervo (HS-56HB Shown)

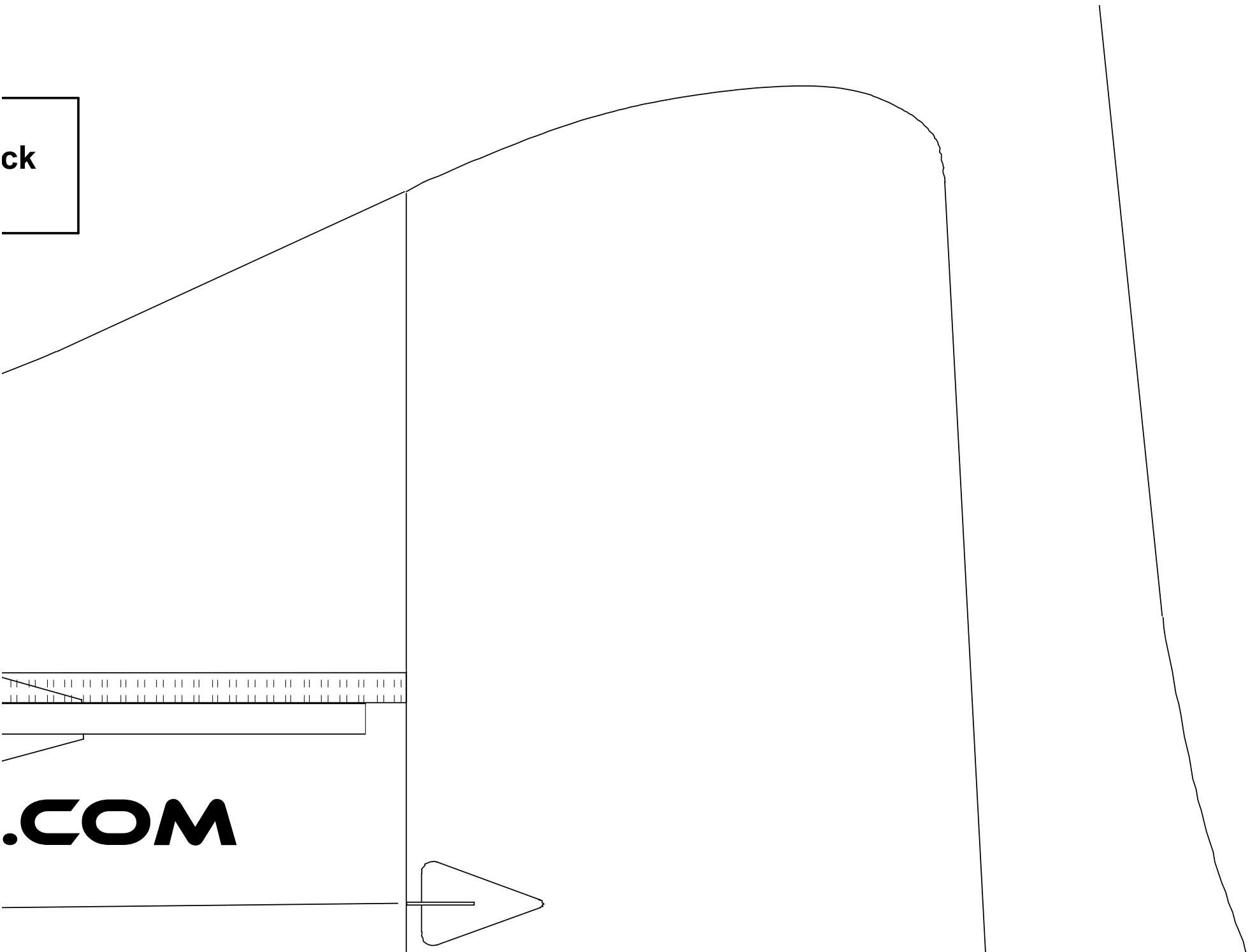
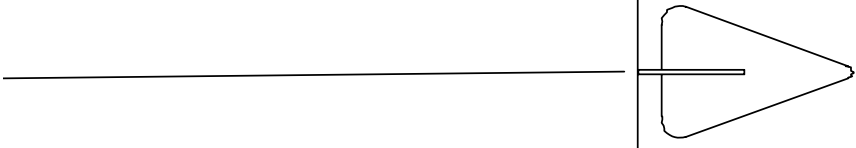
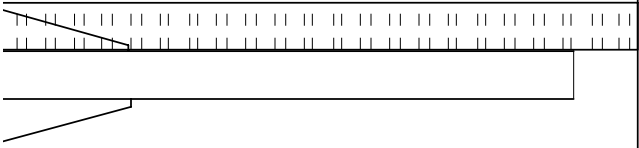


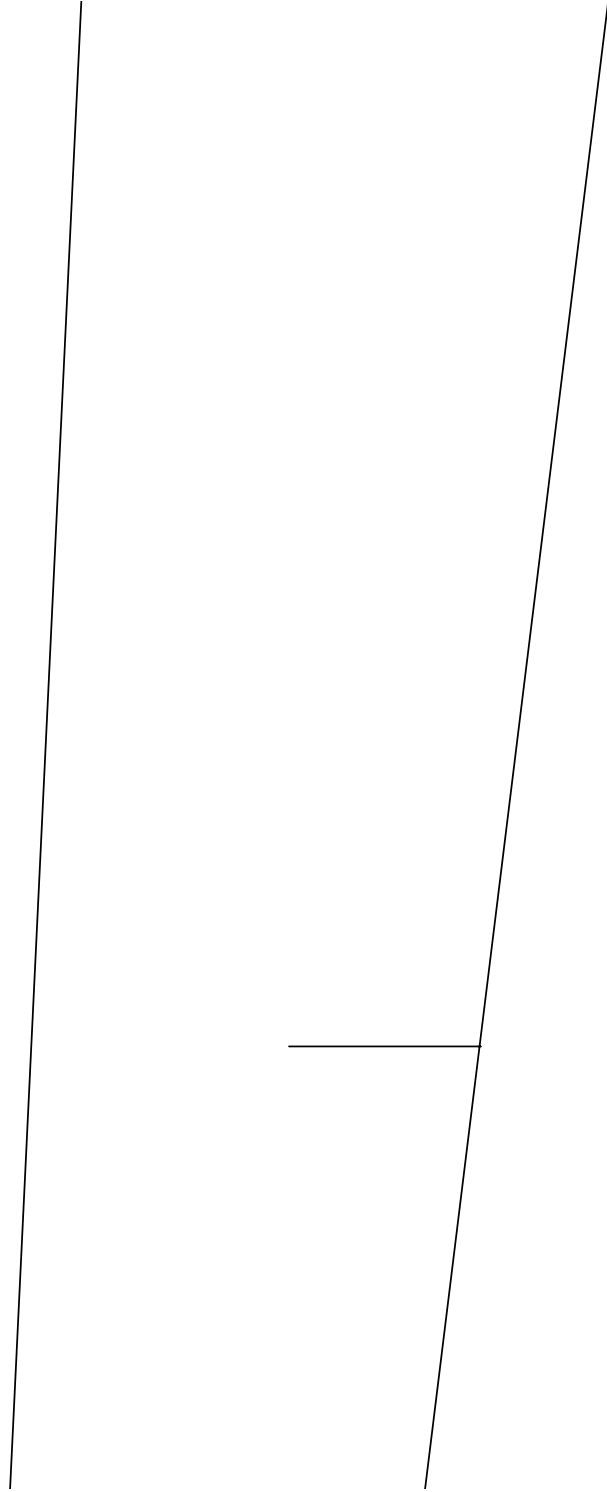
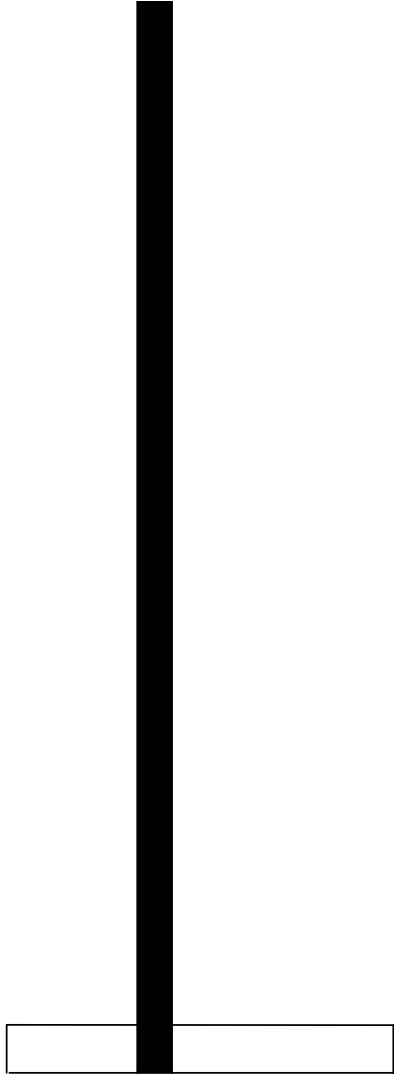
ervo (HS-56HB Shown)

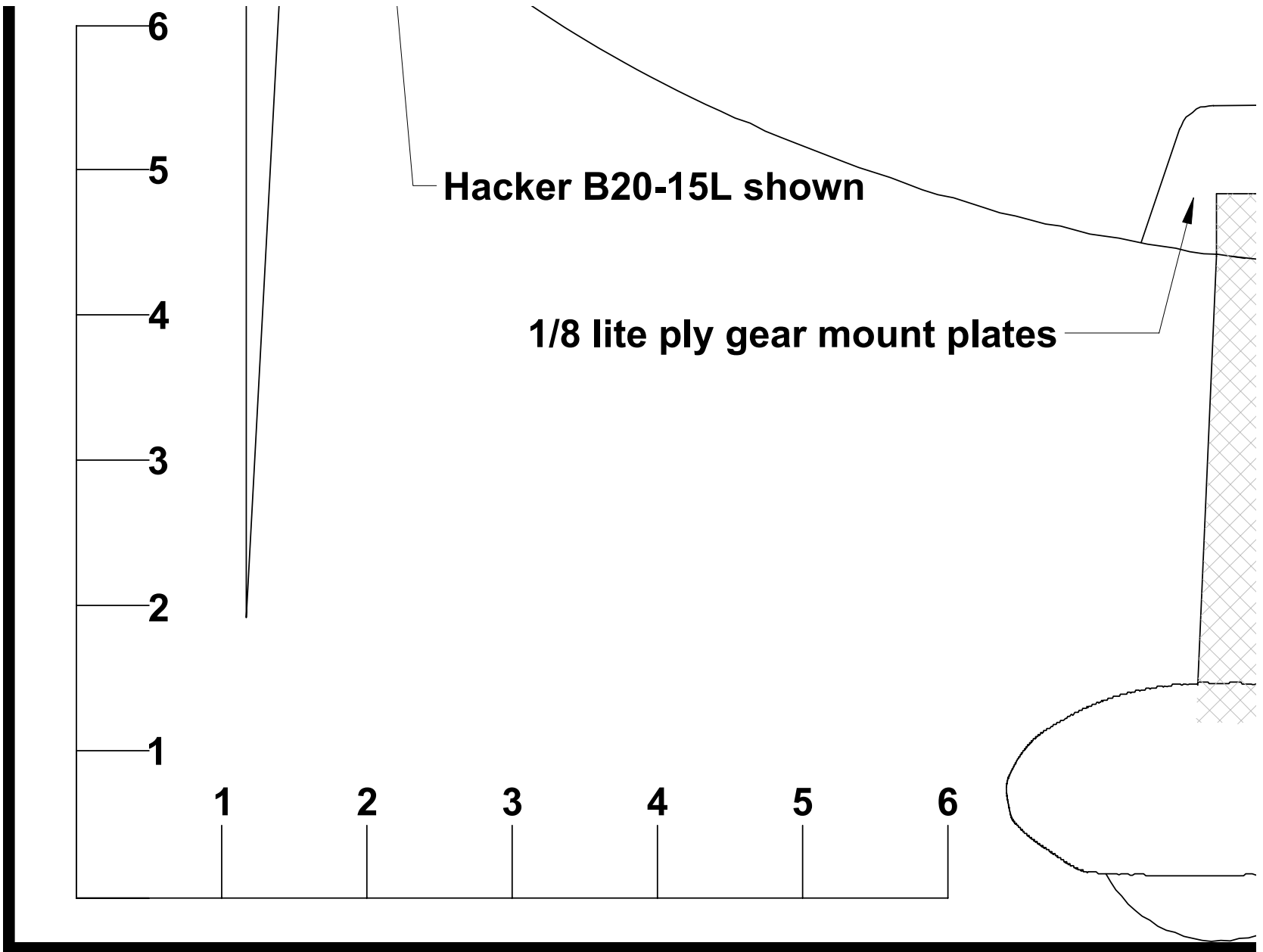
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6

5

4

3

2

1

1

2

3

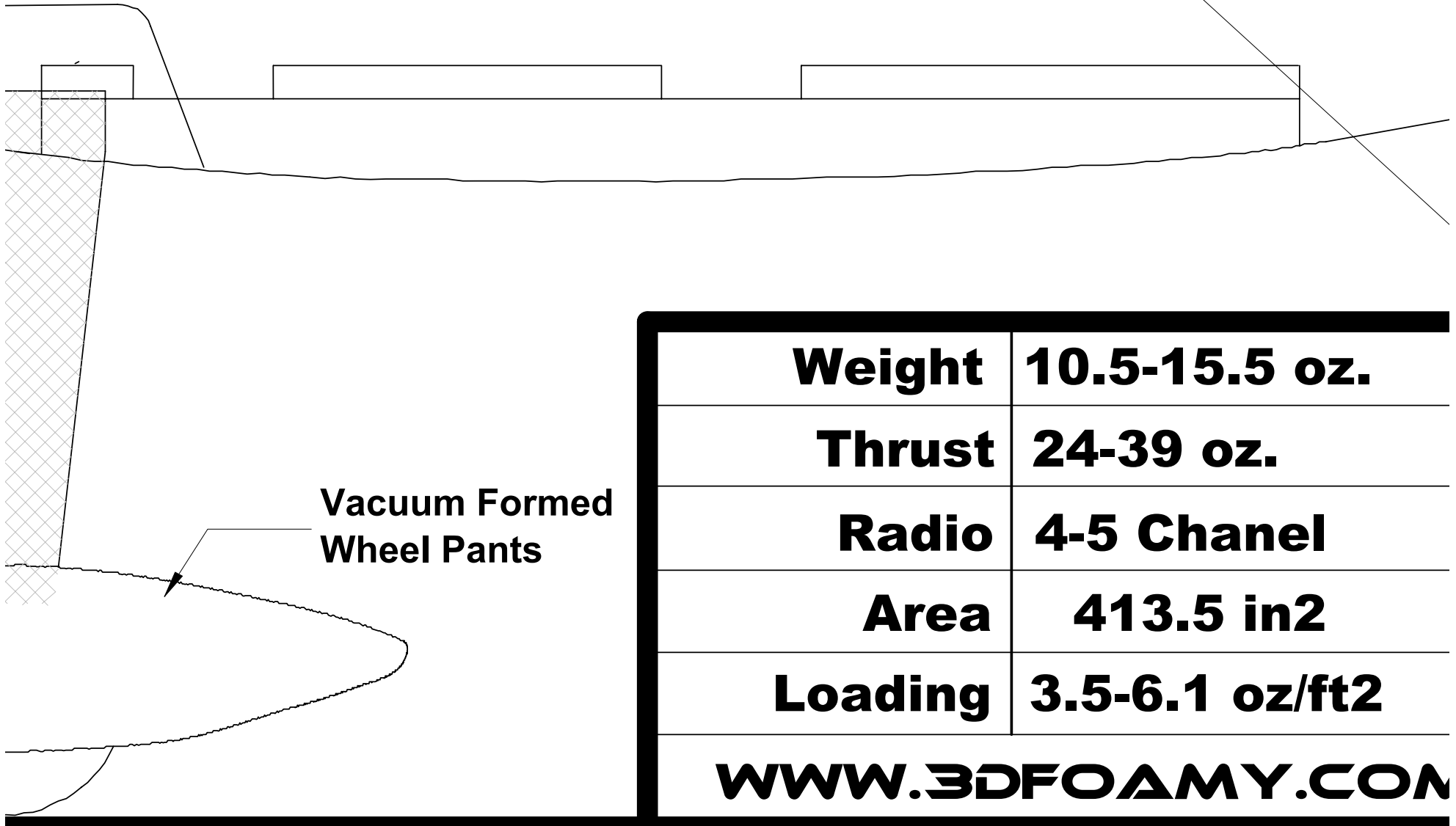
4

5

6

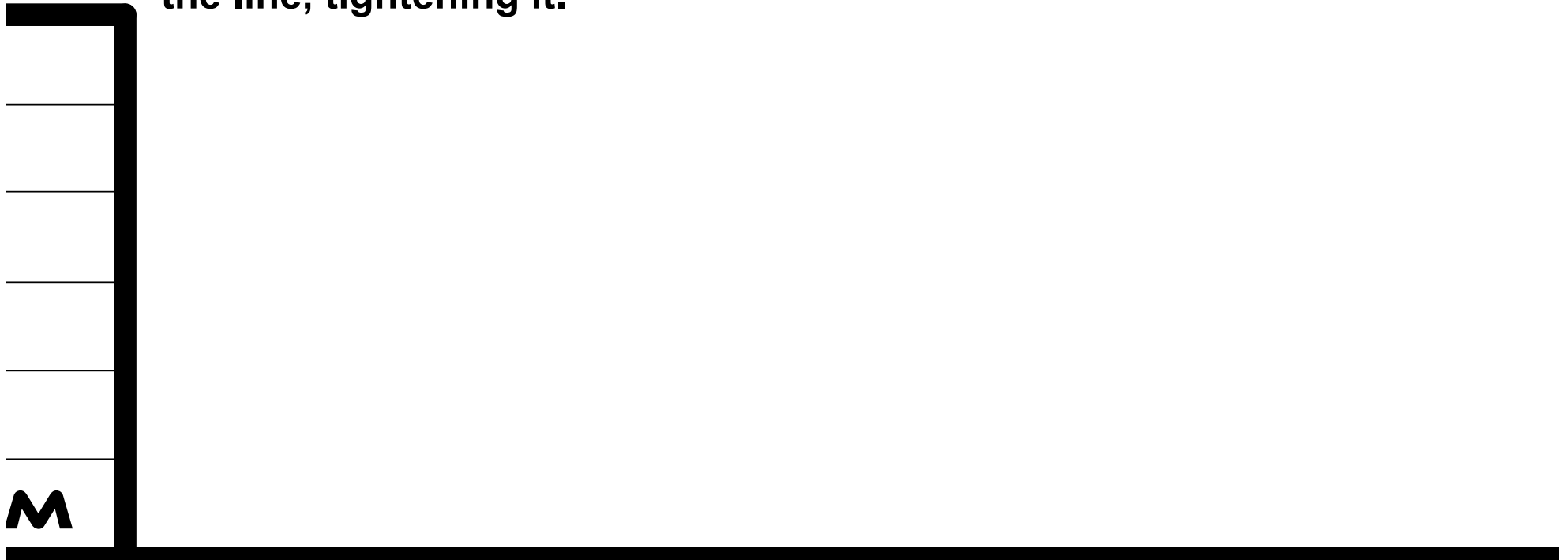
Hacker B20-15L shown

1/8 lite ply gear mount plates

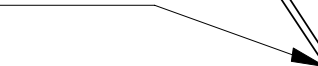


**Use 2-56 screw threaded into servo arm to tension pull-pull lines. As you tighten the screw down, it wraps up the line, tightening it.**

**Carbon Tail w**



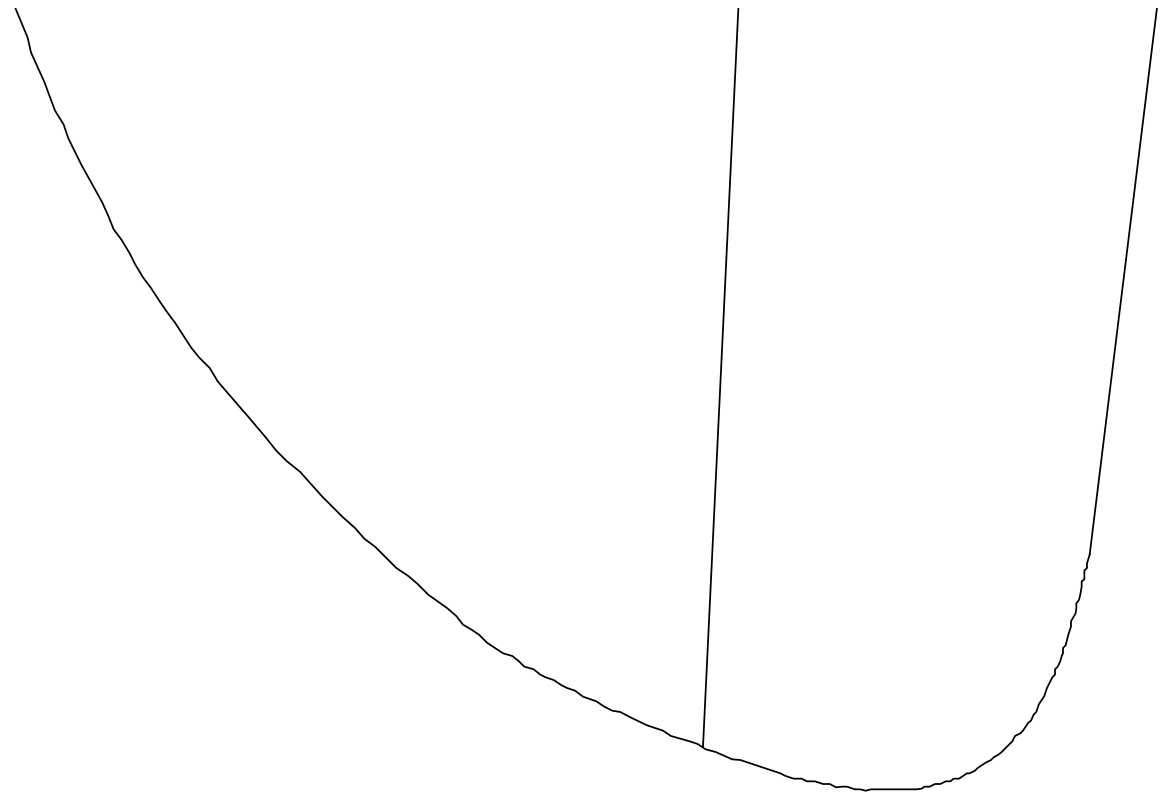
**wheel bracket**



**Specs:**

**3D FC**





# Tibur on 3D Bipe

**OAMY**

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Designed and Drawn by  
Matt Putnam and Levi Jordan  
Updated: 09/15/2004