

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 or shoogoo for the main parts...5 min and foam CA are not strong enough, and will crack under the torque.

3/8"x3/8" Hardwood motor block
Groove block to fit carbon rod.
If using GWS 350 Drive, mount block on Carbon rod so that the prop/drive shaft is in the same location as shown on plans.

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.

Push/Pull Pull Pull

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.

Connect upper and lower ailerons with 1/16 carbon or steel pushrod

Elevator Servo (HS-56HB Shown)

4mm Carbon Spar

6mm Depron Fuse Rails

1° positive incidence on top wing only

1/8" Lite ply center strut

3/16" zipties

LiPo Battery
2100(3s2p)

6mm Depron Wing Saddle

Rudder Servo (HS-56HB Shown)

10-12# fish line pull-pull rudder cables

Carbon Tail wheel bracket

1/64 ply gear mount plates

Use Cotterpin to adjust tension on pull-pull system. Mount using Dubro EZ Connectors

Hacker B20-15L shown

Aileron Servo (HS-56HB Shown)
1 each wing half

6mm Depron Struts (Make 2)

1/16" wire wheel axel/steering arm (Bend 90 deg. at the top to form a control arm. Use clamp on ball link to attach to rudder control horn)

Molded Carbon Fiber Gear

Vacuum Formed Wheel Pants

1/8" Carbon Spar

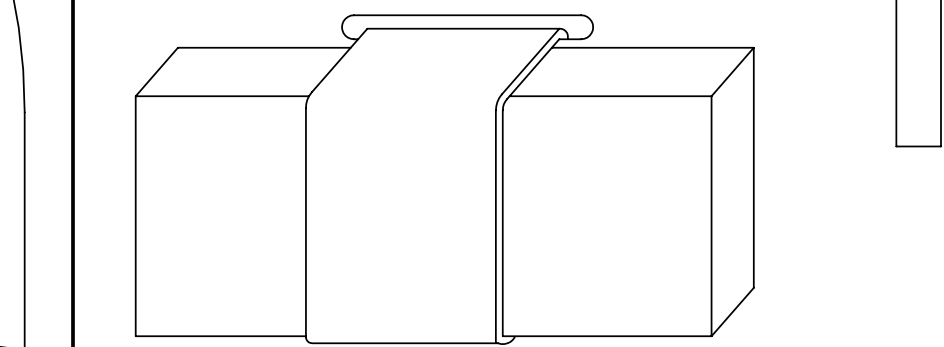
Motor/Battery Info

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	7.7	18.6	oz.
Hacker B20-31S 4:1 Planetary APC 11x4.7 3s1p LiPo	7.7	18.6	oz.
Hacker B20-15L 4:1 Planetary APC 11x4.7 3s2p LiPo	19.5	38.5	oz.
Hacker B20-15L 4:1 Planetary APC 11x4.7 2s1p LiPo	10.8	20.6	oz.
Hacker B20-18L 4:1 Planetary APC 11x4.7 3s1p LiPo	11.7	27.7	oz.
Hacker B20-18L 4:1 Planetary APC 12x6 3s2p LiPo	19	36.7	oz.
Razor RZ300 GWS/5.3:1 GWS 11x4.7 2s1p LiPo	8.8	15.7	oz.
Razor RZ300 GWS/5.3:1 GWS 12x6 2s1p LiPo	9.9	18.5	oz.
Razor RZ300 GWS/6.6:1 GWS 11x4.7 3s1p LiPo	12	26	oz.
Razor RZ350 GWS/6.6:1 GWS 12x6 3s1p LiPo	12.4	27	oz.
Razor RZ350 GWS/6.6:1 GWS 11x4.7 3s1p LiPo	8.7	21.2	oz.
Razor MicroHeli v2 GWS/6.6:1 GWS 12x6 3s1p LiPo	8.9	22.8	oz.
PJS 3D 500 Direct APC 10x4.7 3s2p LiPo	16.4	21.9	oz.
PJS 3D 550 Direct APC 10x4.7 3s2p LiPo	13.8	20.7	oz.
HIMax HA2015-3600 GWS/5.3:1 GWS 12x6 3s1p LiPo	8.7	20.5	oz.
HIMax HA2015-3600 GWS/6.6:1 GWS 12x6 3s1p LiPo	6.5	18.5	oz.
HIMax HA2015-4100 GWS/6.6:1 GWS 12x6 3s1p LiPo	11.2	26.4	oz.
HIMax HA2015-4100 GWS/5.3:1 GWS 11x4.7 3s1p LiPo	11.6	25.2	oz.
HIMax HA2015-5400 GWS/6.6:1 GWS 12x6 2s1p LiPo	10.2	17.8	oz.
HIMax HA2025-3236 3.6:1 Planetary APC 11x4.7 3s2p LiPo	14	29.3	oz.
HIMax HA2025-3236 3.6:1 Planetary APC 12x6 3s2p LiPo	17	32.2	oz.
HIMax HA2025-4236 4.3:1 Planetary APC 11x4.7 3s2p LiPo	20.2	38.1	oz.

Motor stick installation.
You will need to adjust the position of the Carbon rod and motor mount for your motor/gearbox combination. The carbon rod may be in a different location, that is OK.

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



Weight	10.5-15.5 oz.
Thrust	24-39 oz.
Radio	4-5 Chanel
Area	380.2 in2
Loading	4.0-6.1oz/ft2

Specs: Pitts S2C 3D

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