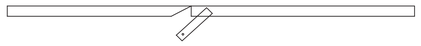
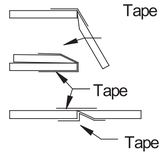
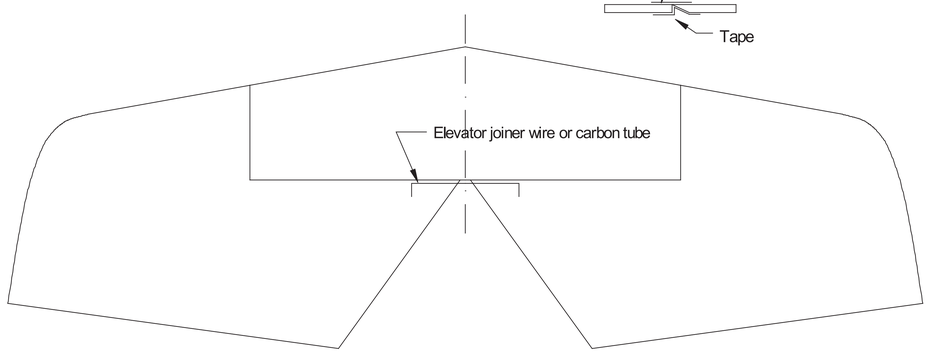
Alternate Power:
Razor RZ350 with the GWS EPS300C DS Gearbox
3S 1200mh E-Tec LiPoly cells
Power with this set-up is incredible!

Note: For the elevator hinge, bevel the horizontal stabilizer, not the elevator. This allows easy hinging to clear the joiner wire.



Tape hinges are used to save weight. Use clear packing tape for hinges
1. Apply a piece of tape to the top of the control surface first.
2. Make sure full deflection is used when lining up both surfaces.
3. Smooth down tape.
4. Now, fold control surface upward all the way as shown.
5. Apply tape to bottom surface and smooth down.
6. Check for freedom of movement.
7. You are done. Easy huh?



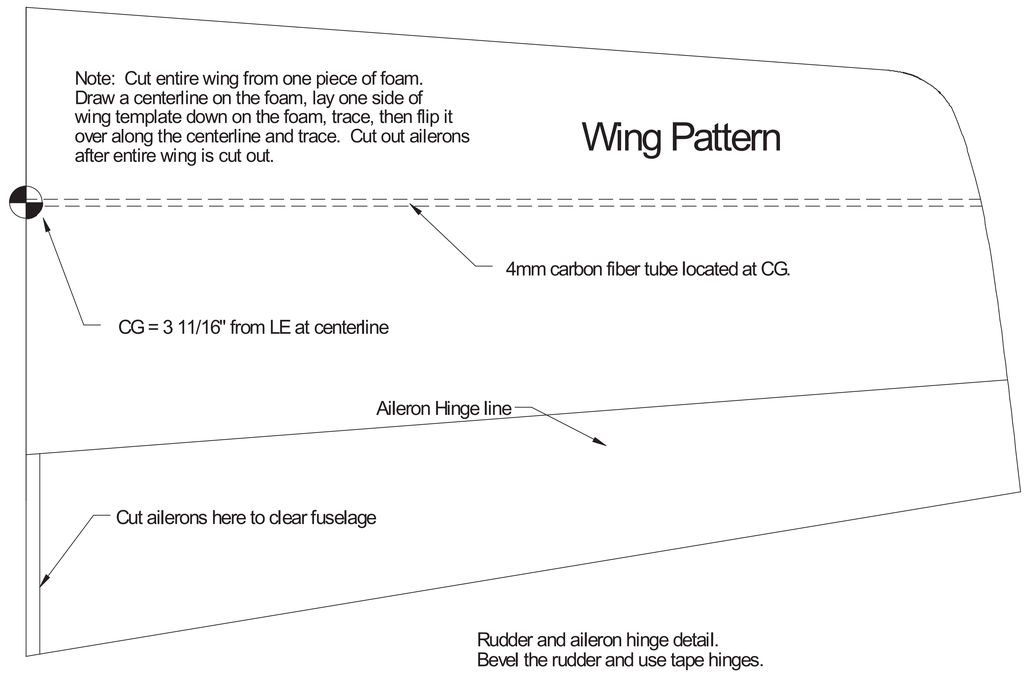


6mm Depron is available at www.depronusa.com

Note: Construction material used is Dow Bluecore, AKA fan fold foam.
6mm Depron can be substituted.

Note: Cut entire wing from one piece of foam. Draw a centerline on the foam, lay one side of wing template down on the foam, trace, then flip it over along the centerline and trace. Cut out ailerons after entire wing is cut out.

Wing Pattern

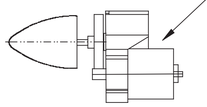


Rudder and aileron hinge detail.
Bevel the rudder and use tape hinges.

Control horn is made from a cut down zip tie.

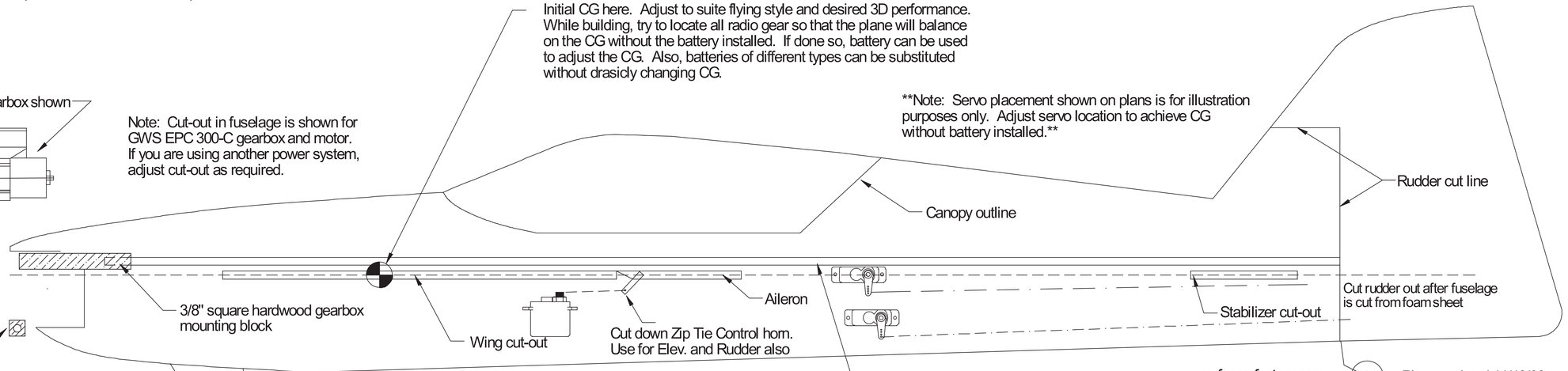
Initial CG here. Adjust to suite flying style and desired 3D performance. While building, try to locate all radio gear so that the plane will balance on the CG without the battery installed. If done so, battery can be used to adjust the CG. Also, batteries of different types can be substituted without drasicly changing CG.

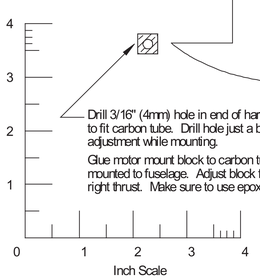
GWS 350C Gearbox shown



Note: Cut-out in fuselage is shown for GWS EPC 300-C gearbox and motor. If you are using another power system, adjust cut-out as required.

Note: Servo placement shown on plans is for illustration purposes only. Adjust servo location to achieve CG without battery installed.





Drill 3/16" (4mm) hole in end of hardwood block to fit carbon tube. Drill hole just a bit big to allow for adjustment while mounting.

Glue motor mount block to carbon tube after tube is mounted to fuselage. Adjust block for 2-3 degrees right thrust. Make sure to use epoxy for this step.

Landing gear shown for optional placement only. Prototype did not have gear.

Airframe is constructed from Dow Bluecore. Also known as Fan Fold Foam. Leave the plastic film on the foam unless otherwise noted. The film on the foam adds tremendous strength with little weight gain.

4mm carbon fiber tube 30" long
Make cut-out in fuse. then use epoxy sparingly to glue into place

www.foamyfactory.com

Plans updated 11/18/03

3DX for GWS EPS 300-C

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Designed and drawn by Timothy Hart

Wing Span: 37"
Wing Area: 360sq."
Weight: 11-13oz

Power System Used on Prototype:
GWS EPS300-C "D" Gearing
GWS 12x6 Prop
8 cell Sanyo 4/5AAA 720Nimh