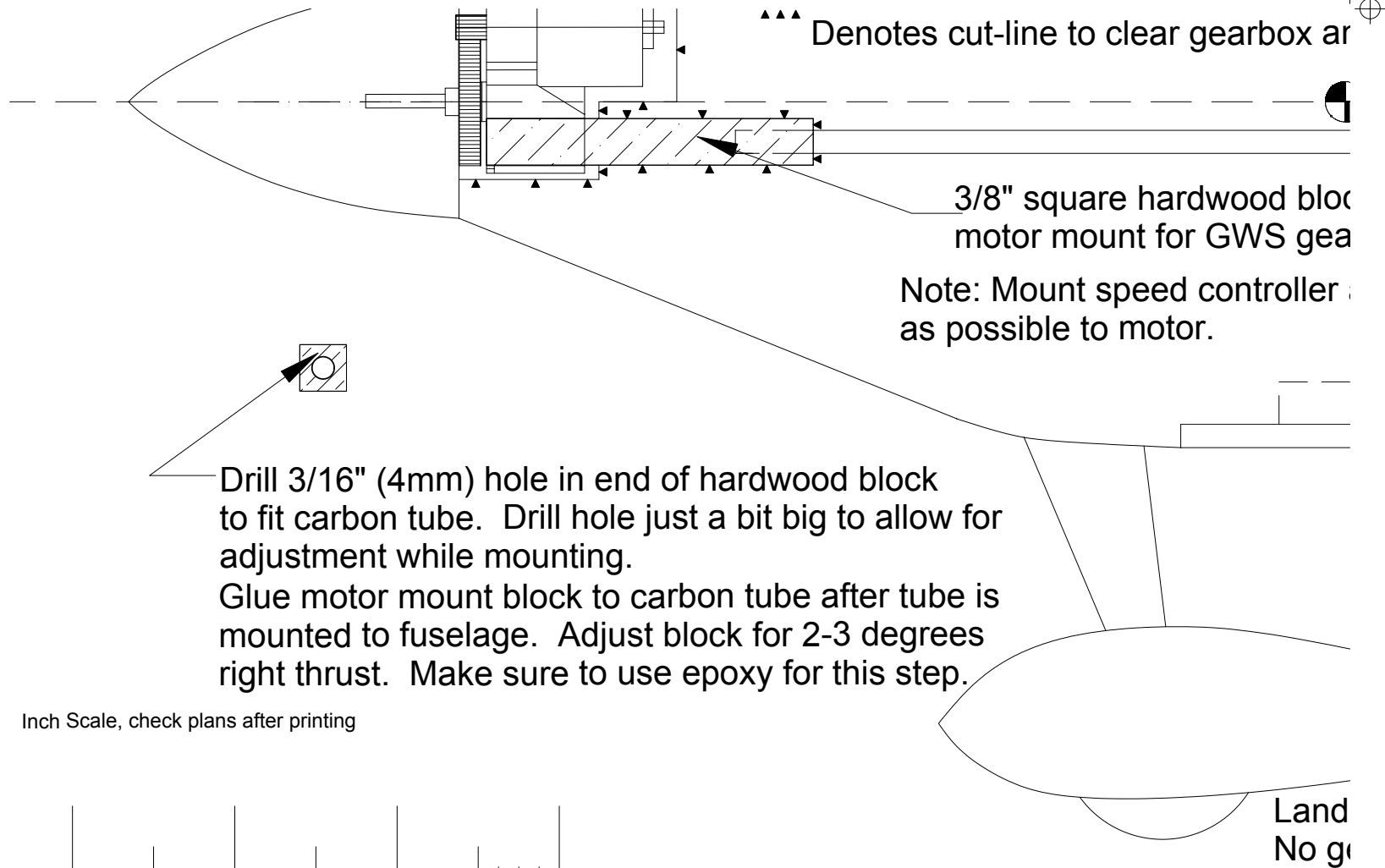
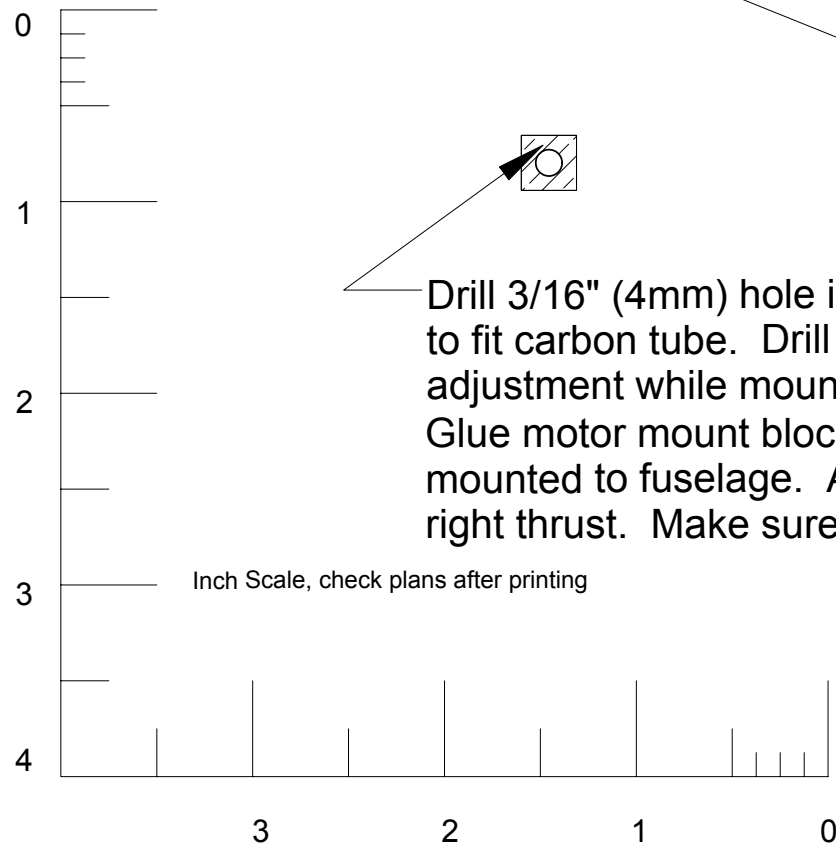


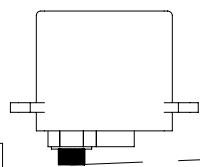




rd motor mount

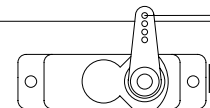


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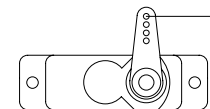


Aileron servo

4mm carbon tube fuselage stiffener
Use a "wrapped" carbon tube for extra strength. Groove foam for spar, then epoxy into place.



Elev



Rudder

Battery cut-out location. This location is approximate on the plans. Adjust accordingly for the battery you choose to use. Cut this hole after airframe is completed. Hole should be cut so the battery is a snug fit in slot.

ing gear shown on plans for location
ear was used on 30" prototype

Note: Placement of Elevator and Rudder s on plans is approximate. Due to differing of components, mount servos so that airpl balance about 1" behind CG shown on pl without battery mounted (temporarily mou motor and speed controller) This allows fo movement fore and aft to adjust CG. and t of different types of batteries.
(servo locations are not critical and may a be adjusted for the use of pull-pull cables)



levator servo

adder servo

Control horn

servos
weights
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Ultimate 10-300 3D Aerobatic Park Flyer

Wing Span: 30"

Weight: 11-13oz.

Power: GWS EPS300C "DS" Gearing (6.6:1)

Propeller: GWS 12x6 Slow Flyer

Battery: 8 Cell Sanyo AAA 720ma NiMh

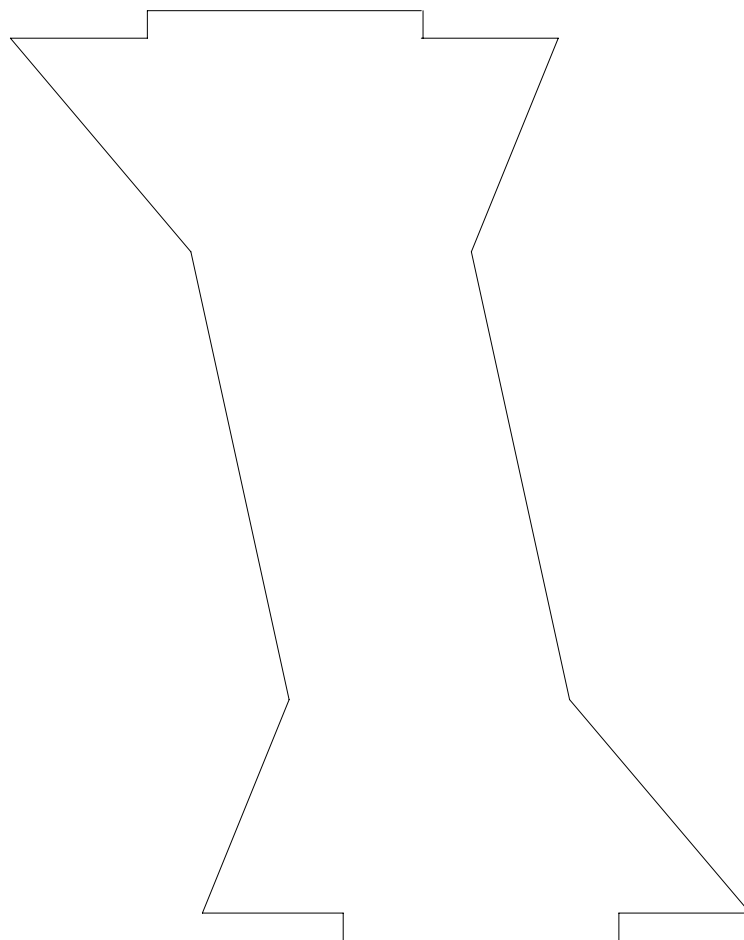
Designed and Drawn By:

Tim Hart

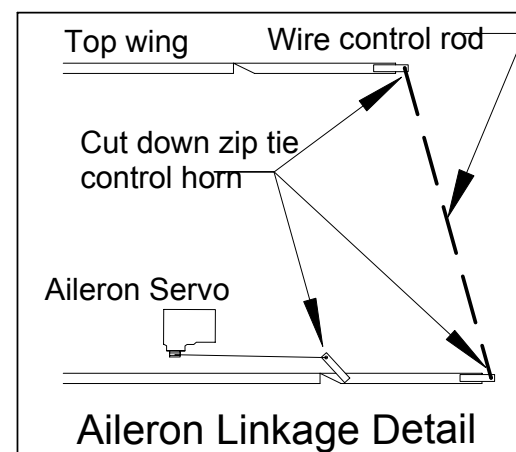
www.jetworksmodels.com

tim@jetworksmodels.com

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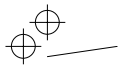


Aileron push rod setup: Make 4 zip-tie cc and locate them as shown on plans. Cut for the horns. Glue zip-tie control horns to the control rod. Fit the control rod into the top horns. Next, fit the bottom ailerons, but do not glue in place. Temporarily hold them in the neutral position. Apply a bit of glue and fit into slots in bottom ailerons. Adjust as necessary so all 4 ailerons are neutral. Do not disturb the alignment.



GWS EPS300C "DS" Gearing

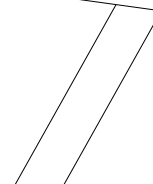
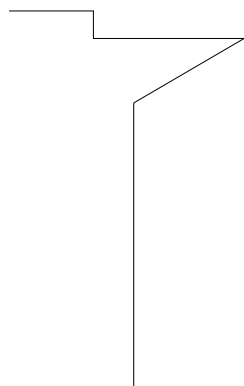




ontrol horns
a slot in the foam
o top ailerons only.
ct, fit the bottom horns
horns into the bottom
rarily tape all 4 ailerons
to the bottom horns
st bottom horns as
et the glue dry without

Aileron
Cut a sl
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Wire elevator joiner



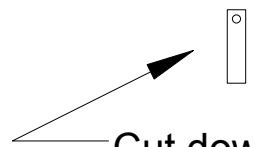
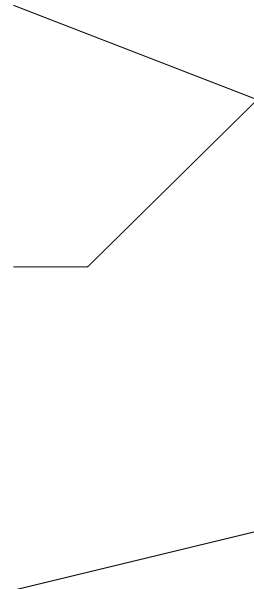
R2 C2



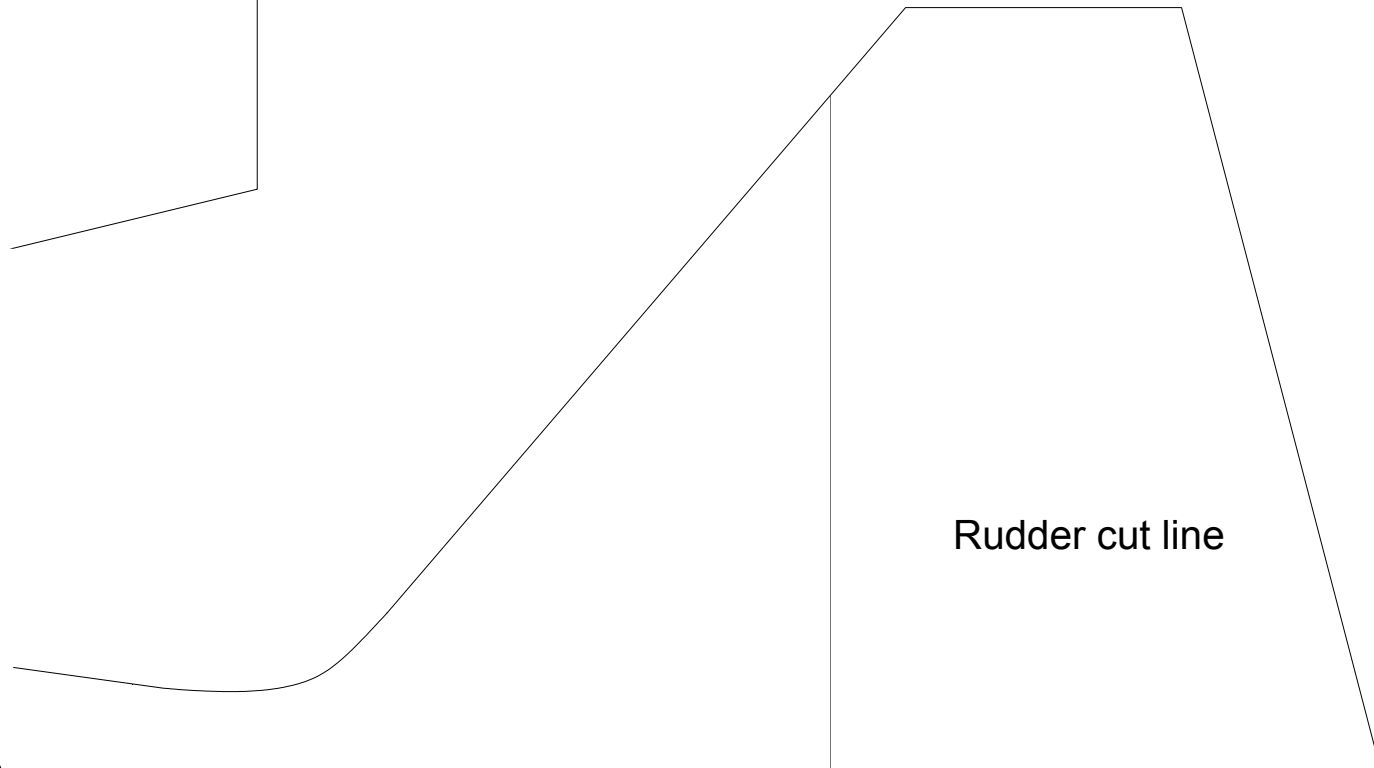


to aileron control horns.
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eron connection diagram.

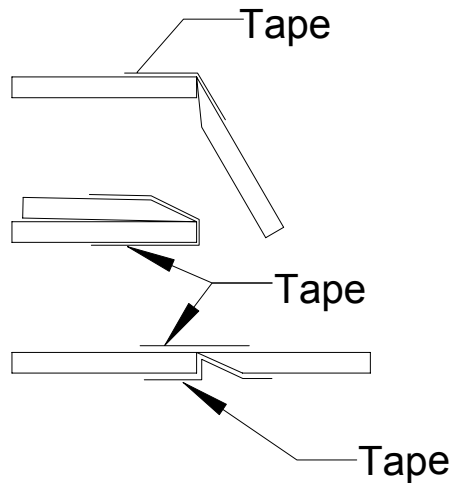
Note: All airframe parts shown are cut from
Fan Fold Foam, also known as Dow Bluecore.
6mm Depron may be used and is actually lighter.



Cut down Zip-Ties are used for control horns,
or use your favorite method. The Zip-Tie can
also be used for push rod standoffs to support
the small dia. wire push rods.

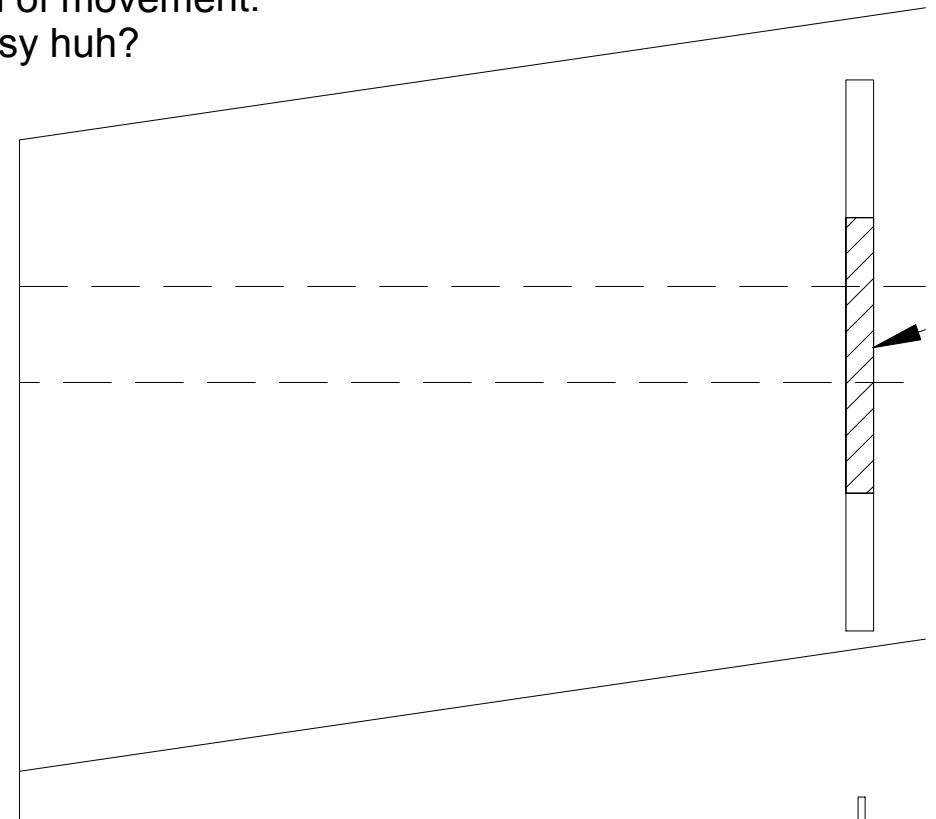


Rudder cut line



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?

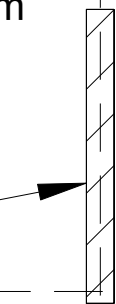




Cut wing from one piece of foam

Cut out hatched area for strut tabs
Center cutout only on top wing

Aileron control horns



Note: 30" WS prototype did not use a carbon tube wing spar.
Wing can be strengthened with 3M strapping tape (optional)
Top of top wing, and bottom of bottom wing get tape full span.
Top of bottom wing and bottom of top wing only get tape to
the inside edge of the strut cutouts

