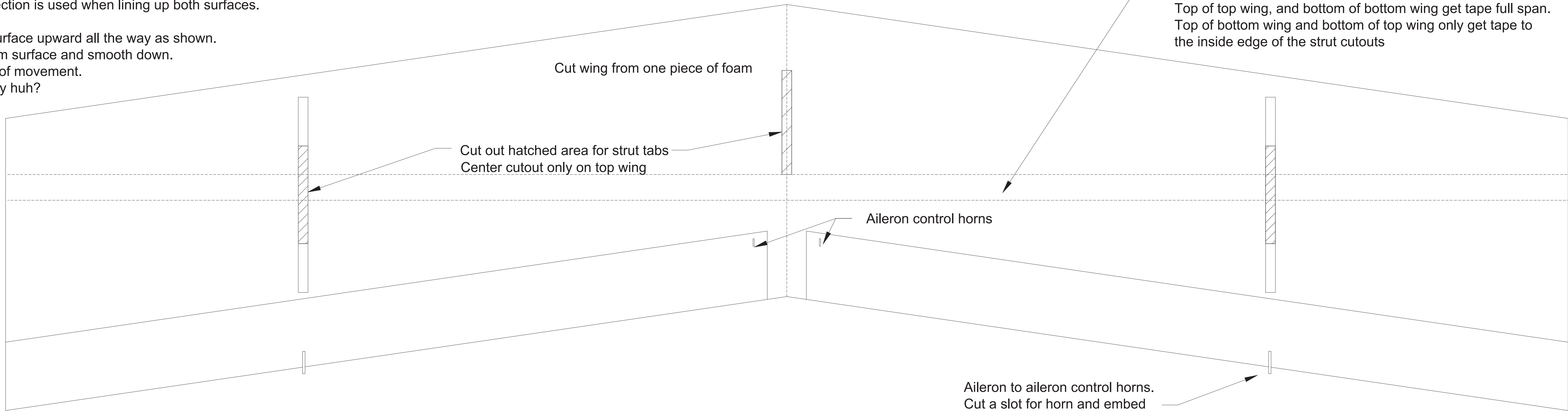
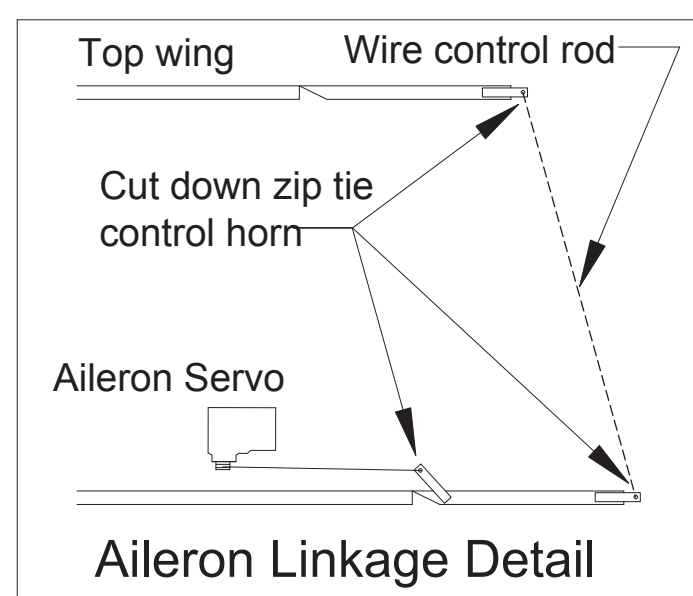


Tape

- 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?

Tape



Cut wing from one piece of foam

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

Aileron control horns

Aileron to aileron control horns.
Cut a slot for horn and embed the horn in the foam aileron.
See aileron connection diagram.

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

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.

Wire elevator joiner

Rudder cut line

Control horn

GWS EPS300C "DS" Gearing

*** Denotes cut-line to clear gearbox and motor mount

3/8" square hardwood block
motor mount for GWS gearbox

Note: Mount speed controller as close as possible to motor.

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

Elevator servo

Rudder servo

Aileron servo

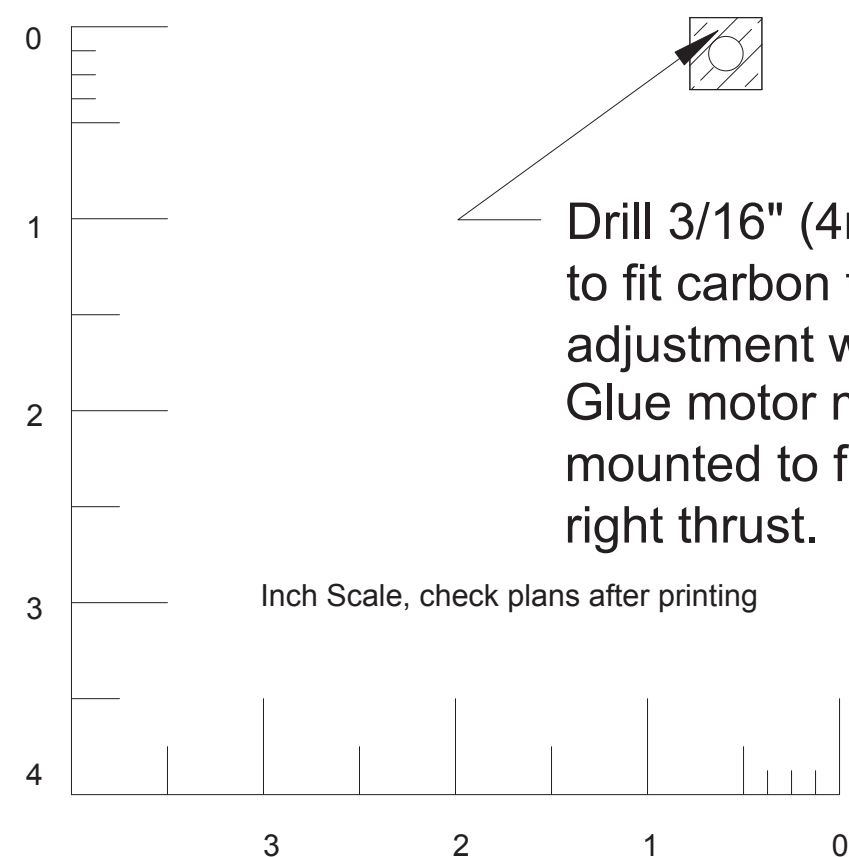
Battery cut-out location. This location is approximate on the plans. Adjust accordingly for the battery you choose to use. Cut this hole after airframe is completed. Hole should be cut so the battery is a snug fit in slot.

Landing gear shown on plans for location
No gear was used on 30" prototype

Note: Placement of Elevator and Rudder servos on plans is approximate. Due to differing weights of components, mount servos so that airplane will balance at CG without battery mounted (temporarily mount the motor and speed controller) This allows for battery movement fore and aft to adjust CG. and the use of different types of batteries. (servo locations are not critical and may also be adjusted for the use of pull-pull cables)

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.

Inch Scale, check plans after printing



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

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