



Wing cut from one pie



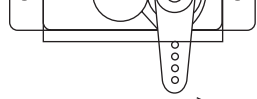
4mm carbon fiber tube. Cut
wing only and CA or RC-56 i

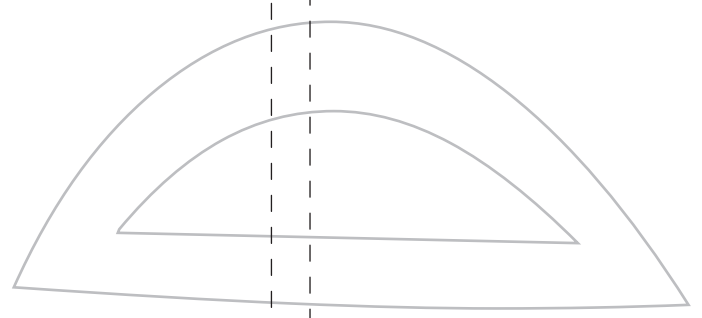
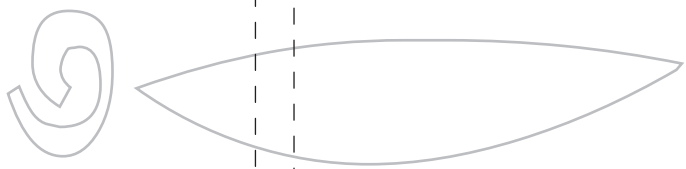
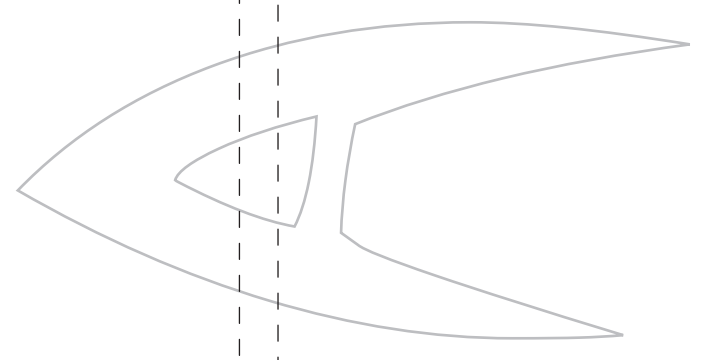
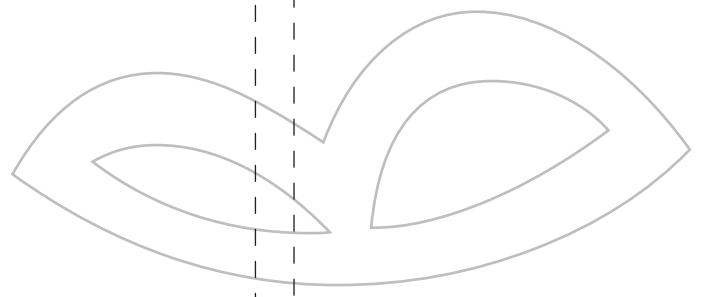


Diablo-3D Park Flyer

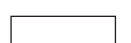
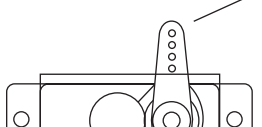
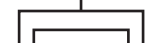
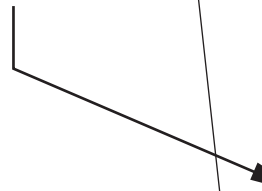
piece of 6mm Depron foam

cut a channel (per plan) on the bottom of the
in place.

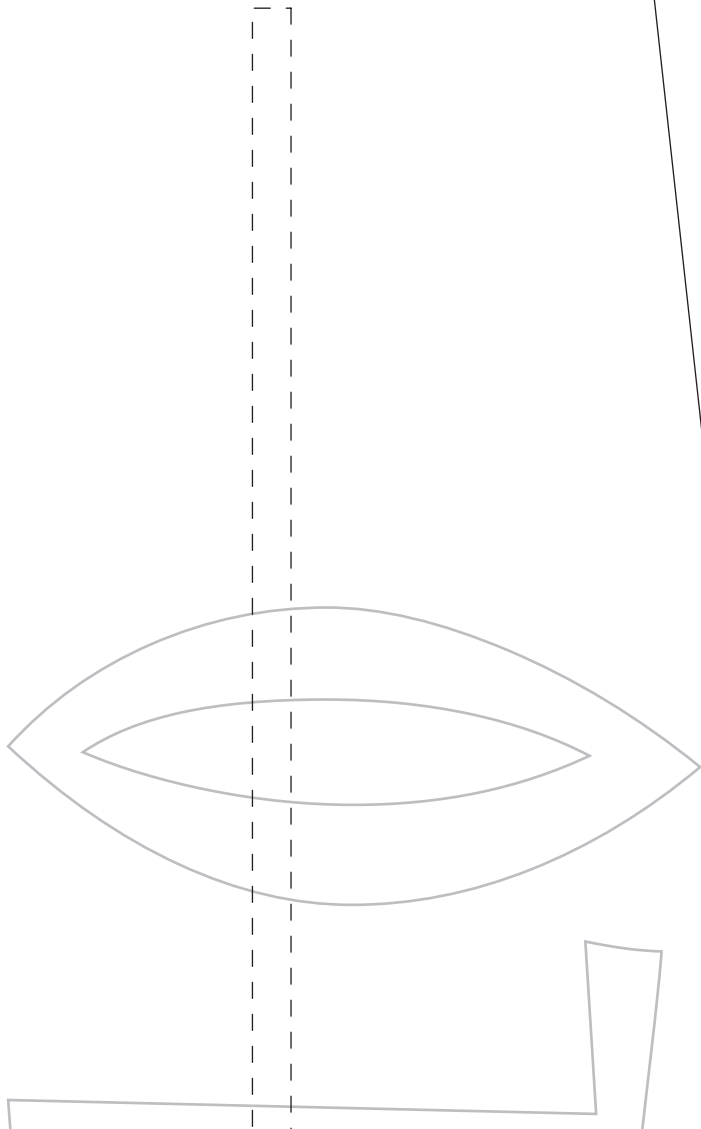




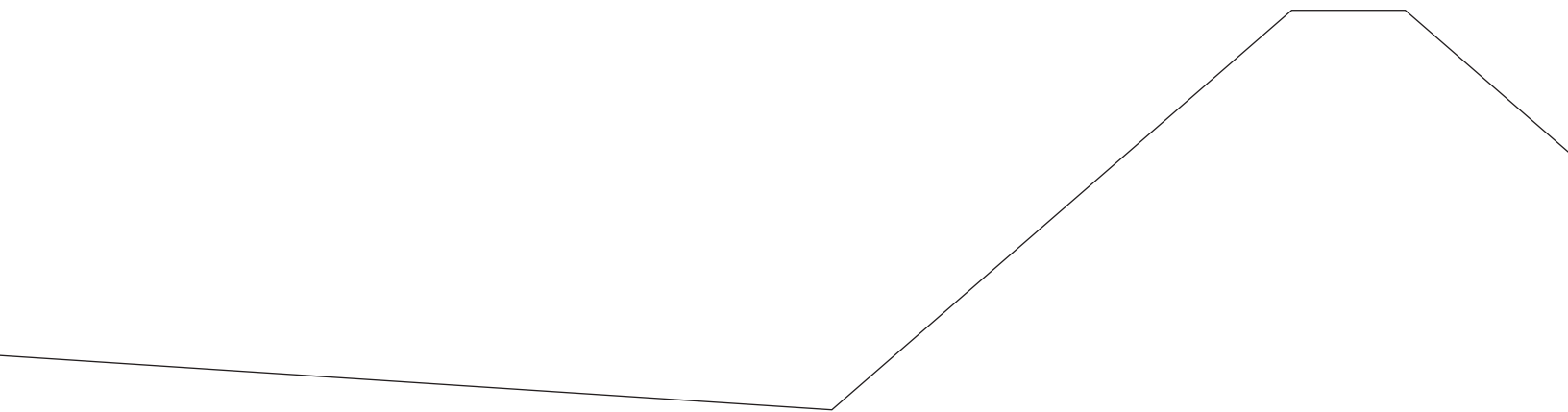
Aileron control horns



CG



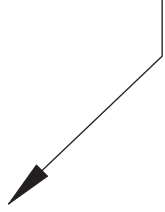
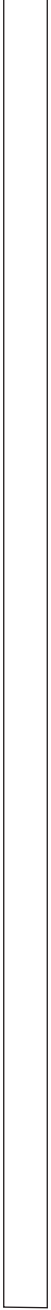
Aileron cut line



FULL

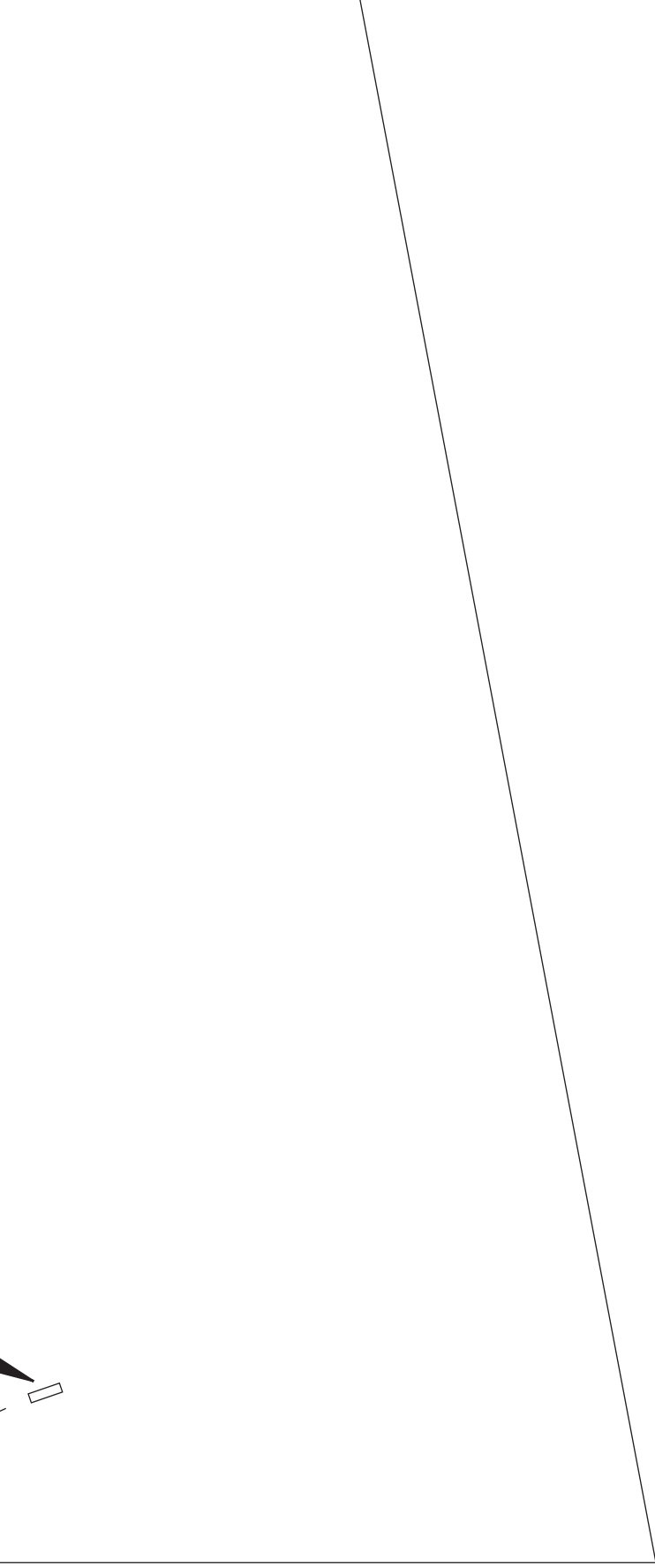
Landing Gear

.030 - .040 solid carbon rod (or 3mm flat carbon rod) glued to the trailing edge of the stab right in front of the hinge line for spanwise stiffness

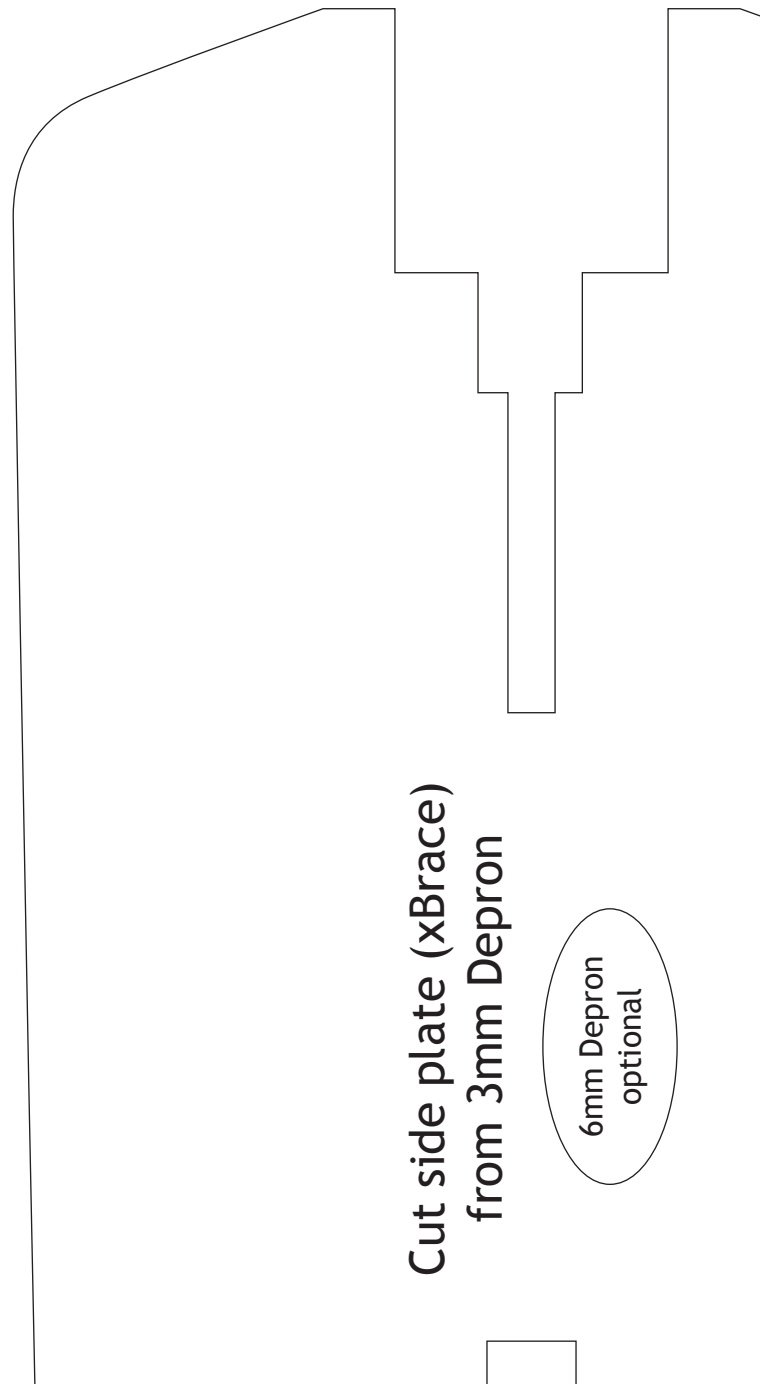




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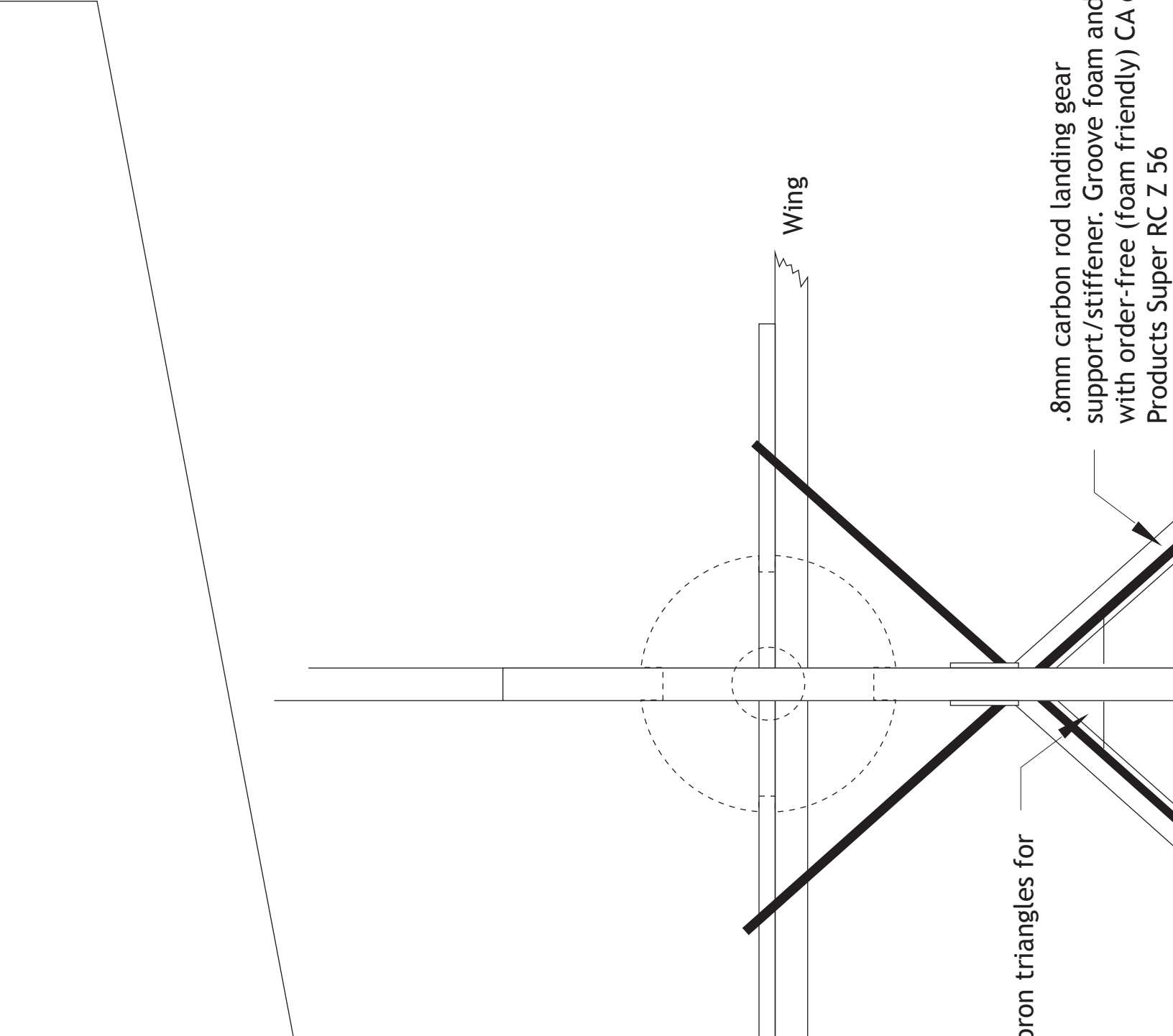
Glue scrape Dep
extra strength



Cut side plate (xBrace)
from 3mm Depron

6mm Depron
optional

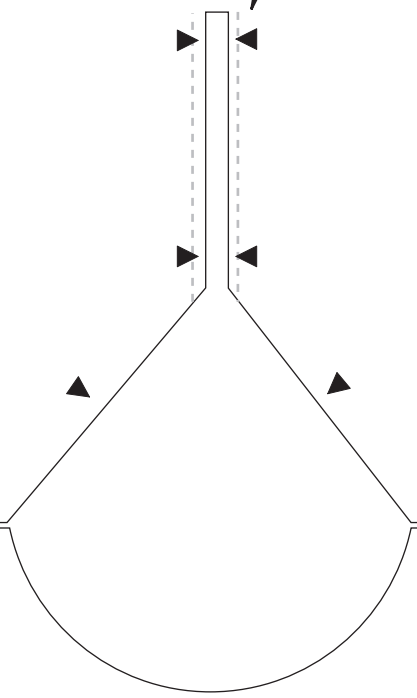




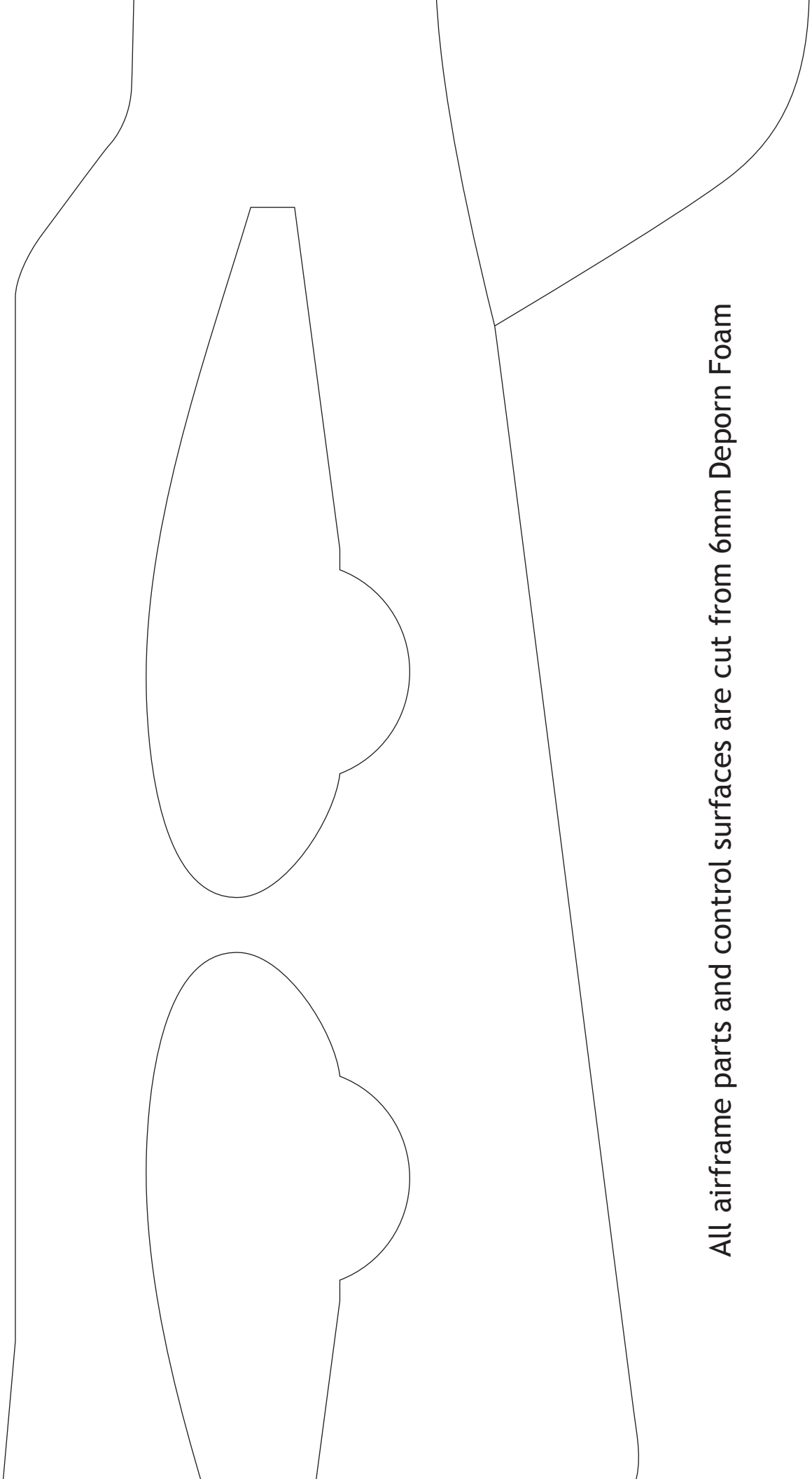
3mm Depron



Dashed
sents alt
line if 6m
xBrac

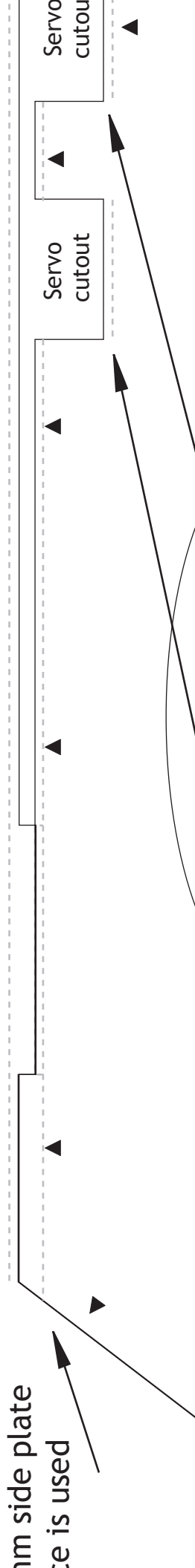


Futaba

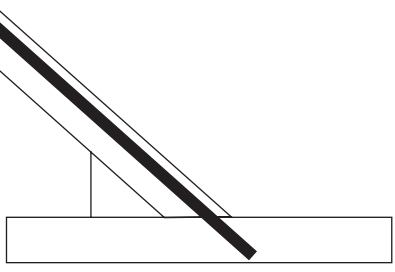


All airframe parts and control surfaces are cut from 6mm Deporn Foam

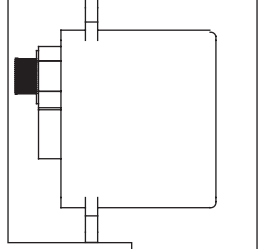
line repre-
sentative cut
6mm side plate
is used



All parts are cut from 6mm Depron unless stated otherwise



Aileron Servo



3 Cell



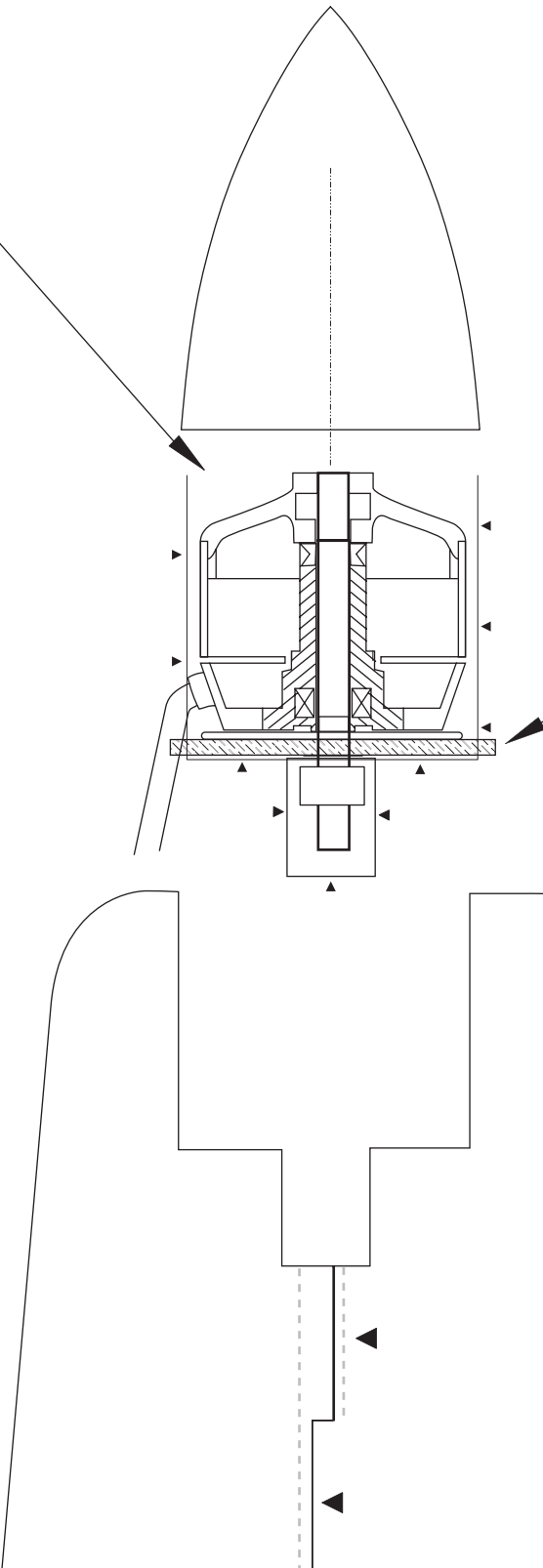
Initial CC 2 3 E"



NOTE: landing gear shown is not functional but is recommended for improved flight performance

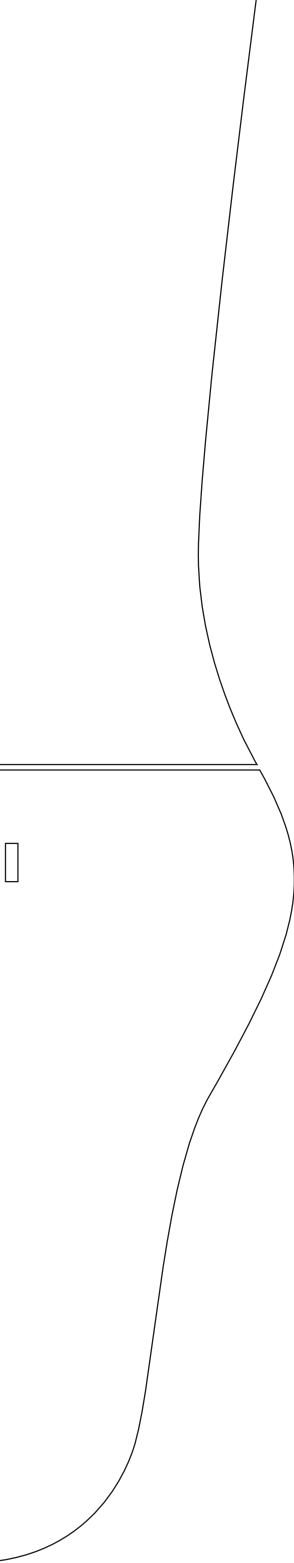
AXI Brushless Motor Shown

AXI 2212/34 External Rotor Brushless





Inch Scale reference,
check after printing.



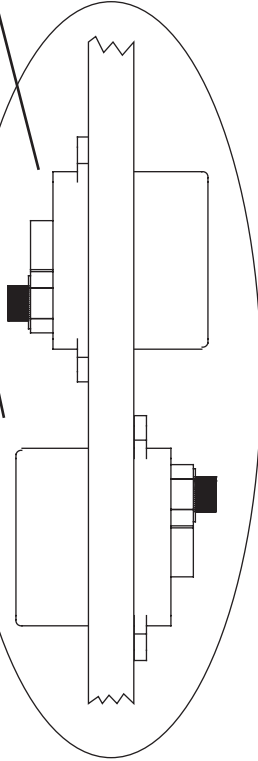
DIABLO-3 D PARK FLYER SPECS

Wing Span..... 37"
Length..... 33.75"
Weight..... 12-13oz
Power..... AXI 2212/34
Prop..... GWS 12x4
Ch..... 4
Battery..... 3 Cell-700 to 1350mAh-Li-Poly

FLIGHT SYSTEM RECOMMENDATIONS

Rx and Servos
* GWS R-4PH 4ch receiver or equivalent
* 4 Waypoint W-084 Micro Servos
or Hitec HS 55
Brushless Motor
* AXI 2212/34 outrunner (Max 3D performance)
Speed Controller
* Phoenix 25amp speed controller
Battery
* 3 Cell 700-1350mAh-11.1v Li-Poly Battery
Prop(s)
* GWS 12x6 Slow Flyer
* APC 12x3.8 electric slow flyer





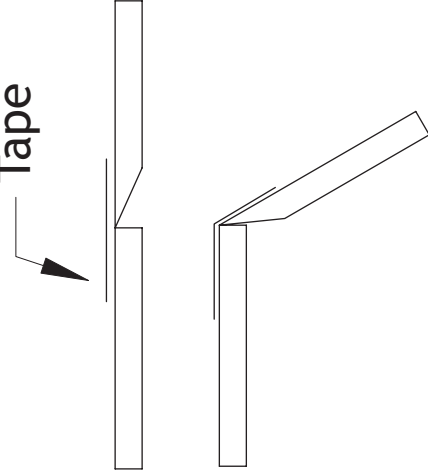
MATERIALS LIST

- * Depron 6mm/3mm White (www.depronusa.com)
- * 30" 4mm & 2mm wrapped carbon fiber tube
- * .040 Solid Carbon Rod (push rods + stab support) or...optional 3mm flat carbon rod tab support
- * .080 Solid Carbon Rod (landing gear support)
- * Medium or Thick foam friendly CA
- * Foam friendly CA accelerator
- * JZ Products Super RC "Z" 56 glue
- * 1" Self-sticking Hook & Loop (Velcro-Industrial Strength) tape
- * Clear packing tape
- * 4-E-flite Micro Control Horns No. EFLA200 OR...4 Du-Bro Micro Control Horns No. 848
- * 4 Du-Bro Micro E/Z Links No. 849
- * .032 wire control arms
- * 1/2" Nylon Filament Strapping (3M brand)
- * Zagi tape for trim scheme (optional)
- * Straight edge razor-blades
- * No. 11 Xacto knife
- * Metal yardstick

HINGE DETAIL

Use 1" wide clear packing tape for hinges. Clean all parts with rubbing alcohol before taping

Tape



PUSHROD

Use on control servo arms. CA 3" of wire to 2mm carbon fiber rod, secure with 1" of heat shrinking tubing. Carbon rod fits opposite side of control arms, wire connects and holds rod in place

.032 wire control arms



.040 Solid Carbon Rod push rods



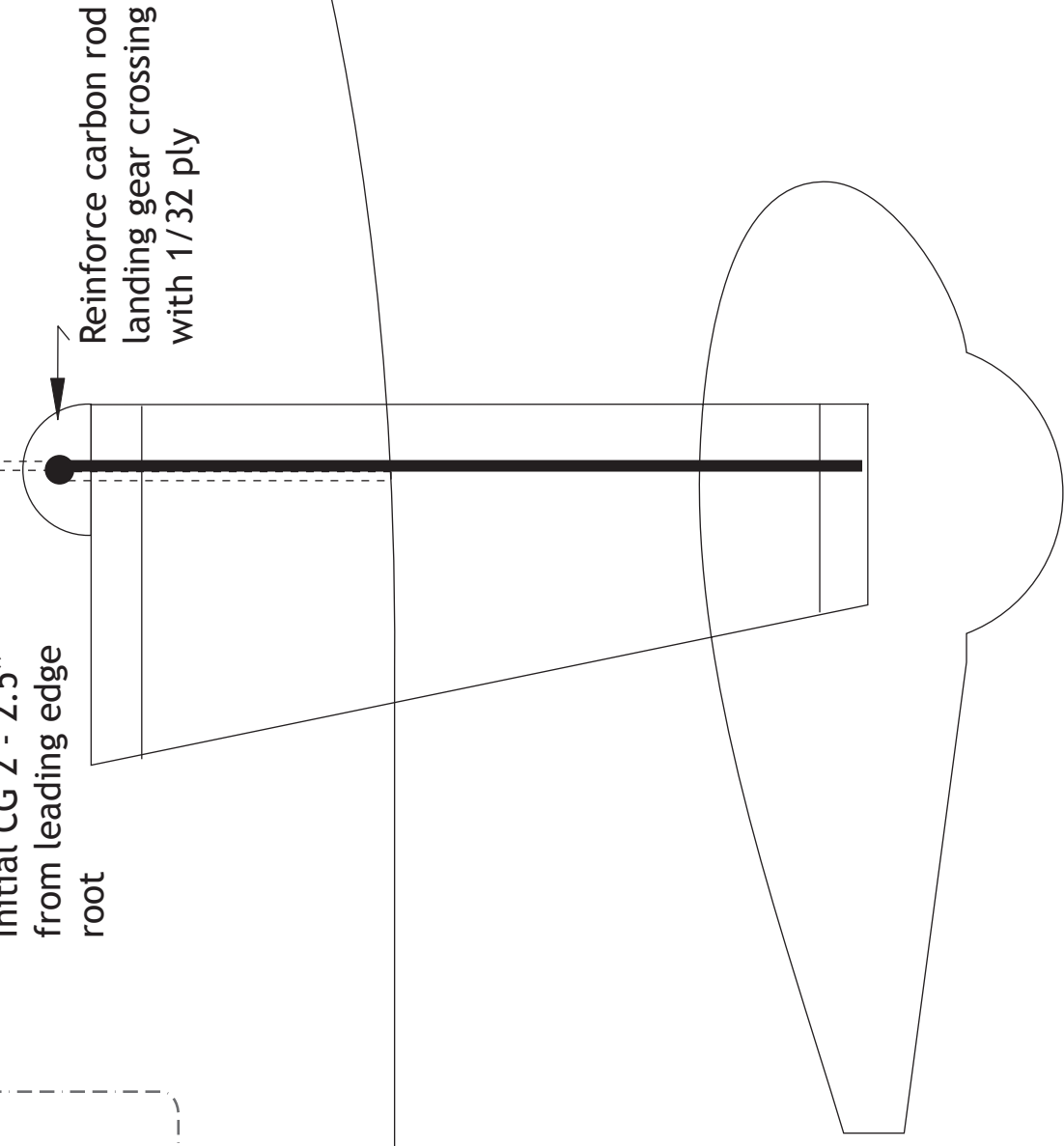
Heat shrink tubing

notes cut-lines

700-1350 mAh
Li-Poly Battery

Initial CG Z - Z.3
from leading edge
root

Reinforce carbon rod
landing gear crossing
with 1/32 ply

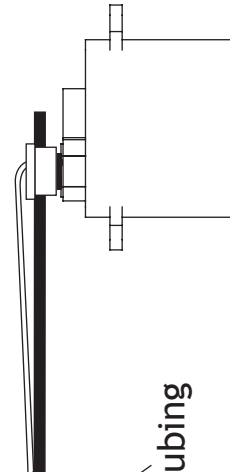
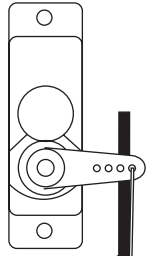


ROD DETAIL



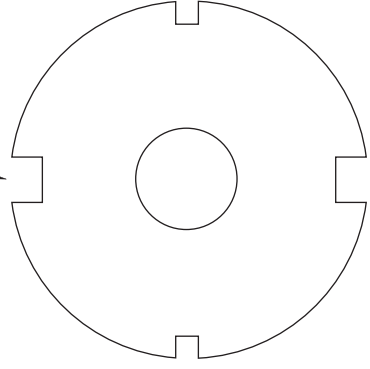
ce

control rods

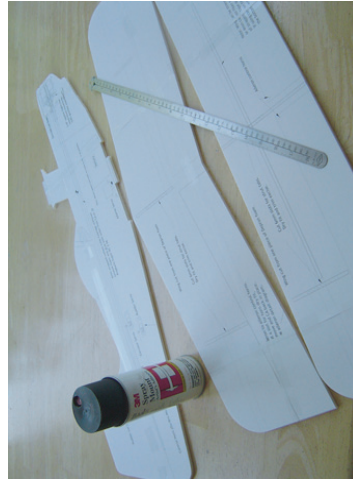


tubing

1/8" light plywood radial mount,
reinforced with Depron triangle stock
on all 4 sides



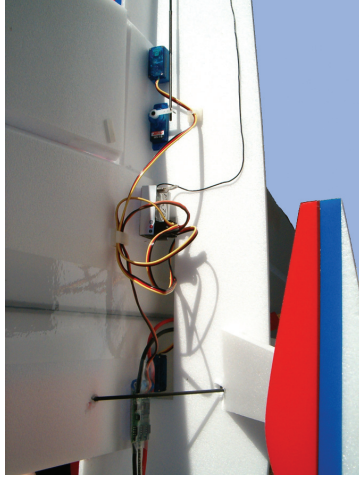
BUILD & FINISHING DETAILS



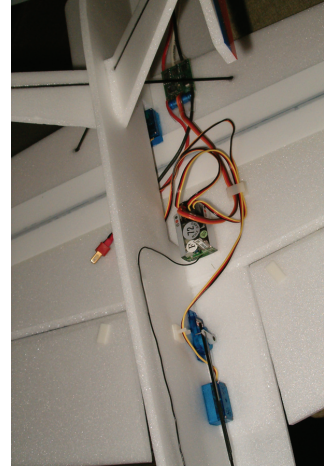
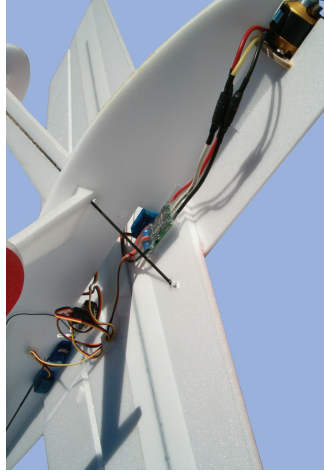
Lightly coat back of plan parts with Spray Adhesive, apply each part to Depron. Carefully cut each part out using a straightedge and #11 Xacto.

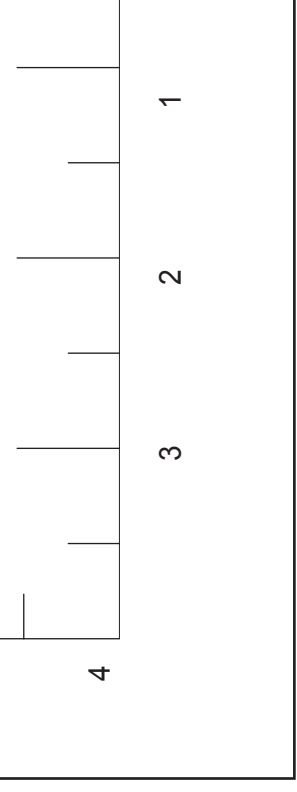


A Rotary Tool Cutting Adapter is perfect for clean easy to make grooves for Fiber Carbon rod stiffeners.

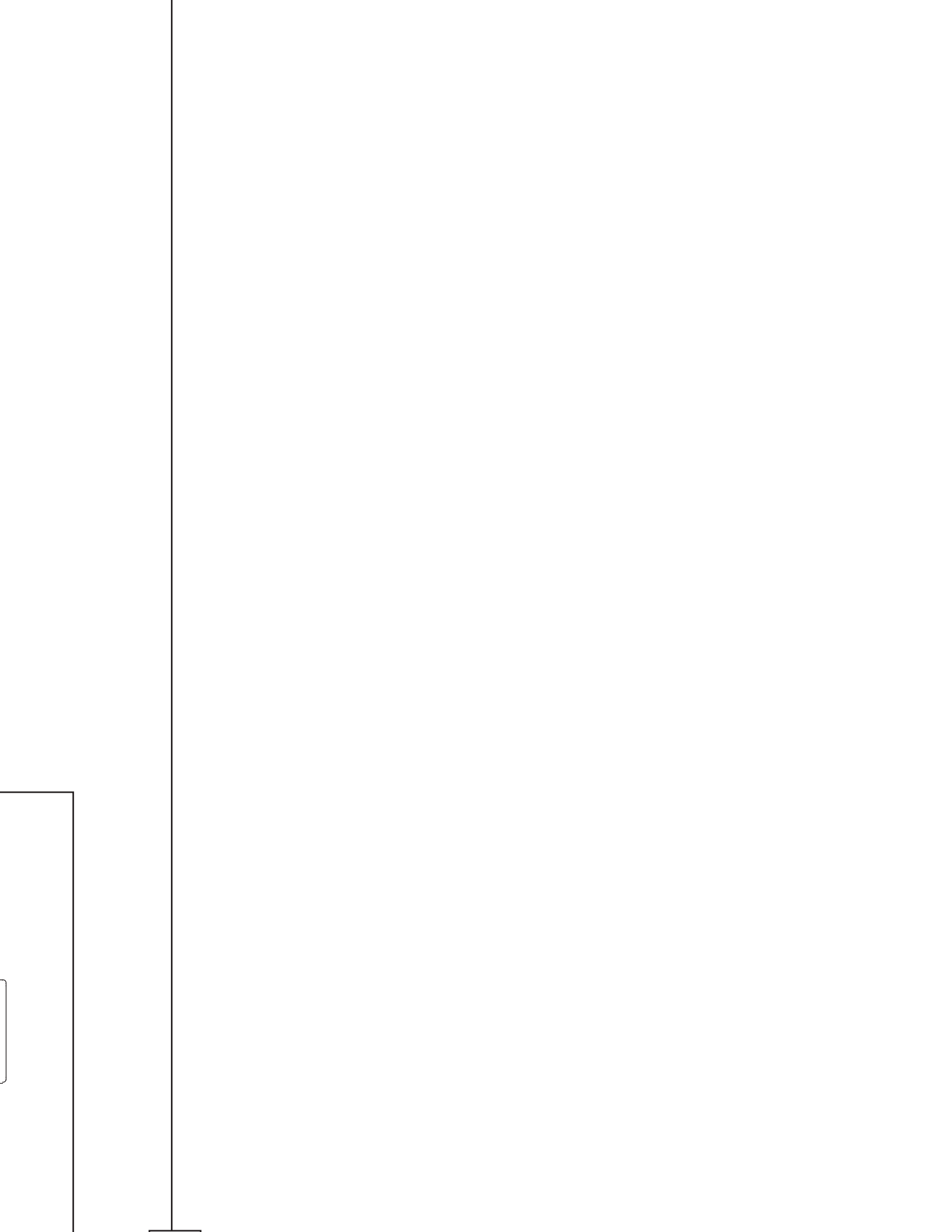


Speed control, Rx and rudder/elevator servos.
Note landing gear set-up





Design by Mickey Crawley - Plans by Steven Gibson





Thick CA works fine for mounting the light ply motor mount.



Not speed control and Rx locations. Battery is on the opposite side.



Colored Zagi tape works great for trim. It's best to trim each part before assembly.