

Diablo 3D 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.rcfoam.com)

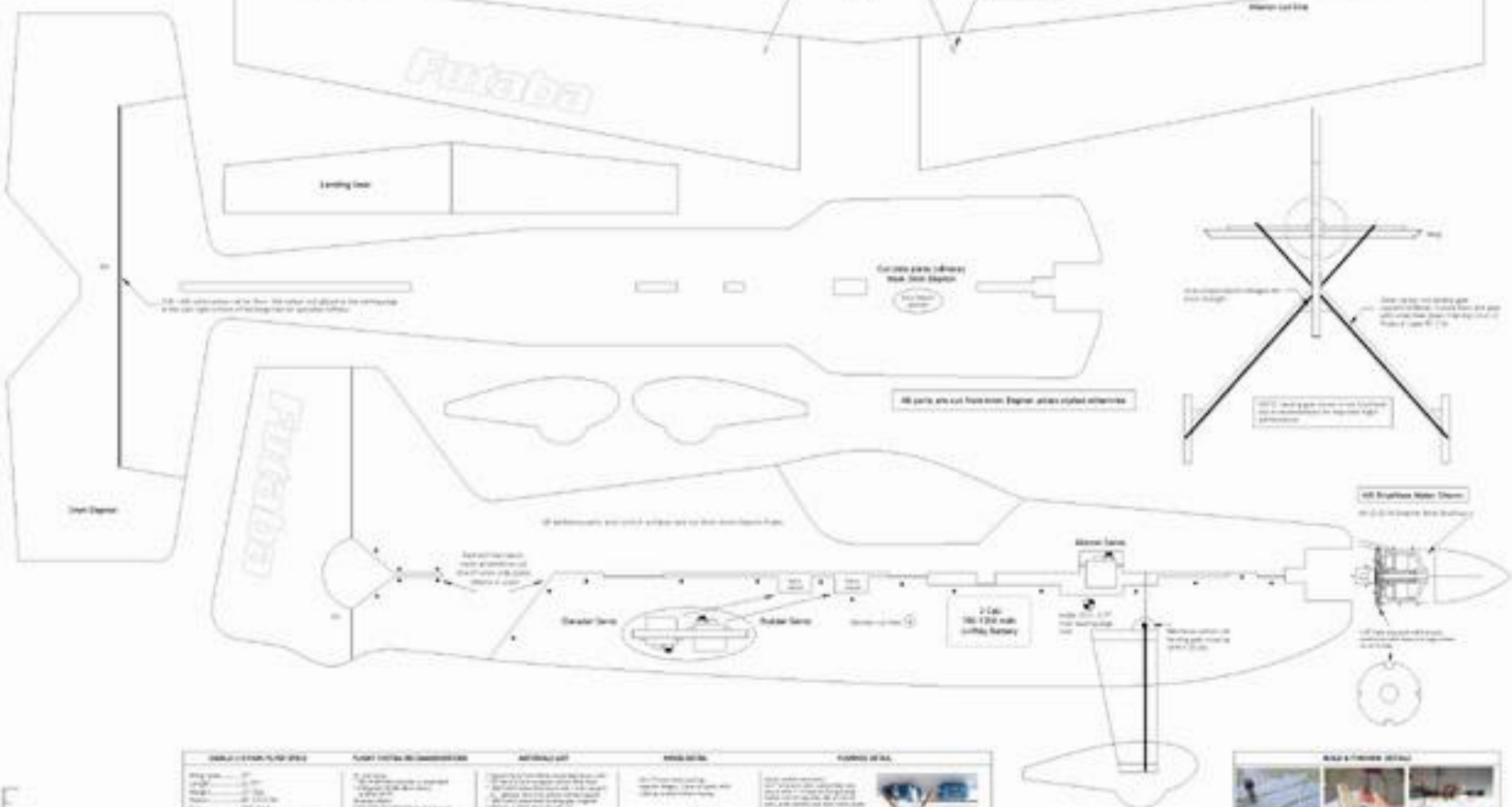
- * 30" 4mm & 2mm wrapped carbon fiber tube
 - * .040 Solid Carbon Rod (push rods + stab support)
- or...optional 3mm flat carbon rod tab support
- * .080 Solid Carbon Rod (landing gear support)
 - * Medium or Thick foam friendly CA
 - * Foam friendly CA accelerator
 - * JZ Products Super RC "Z" 56 glue
 - * 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
- * 3M Photomount Spray Adhesive

Hinge Detail

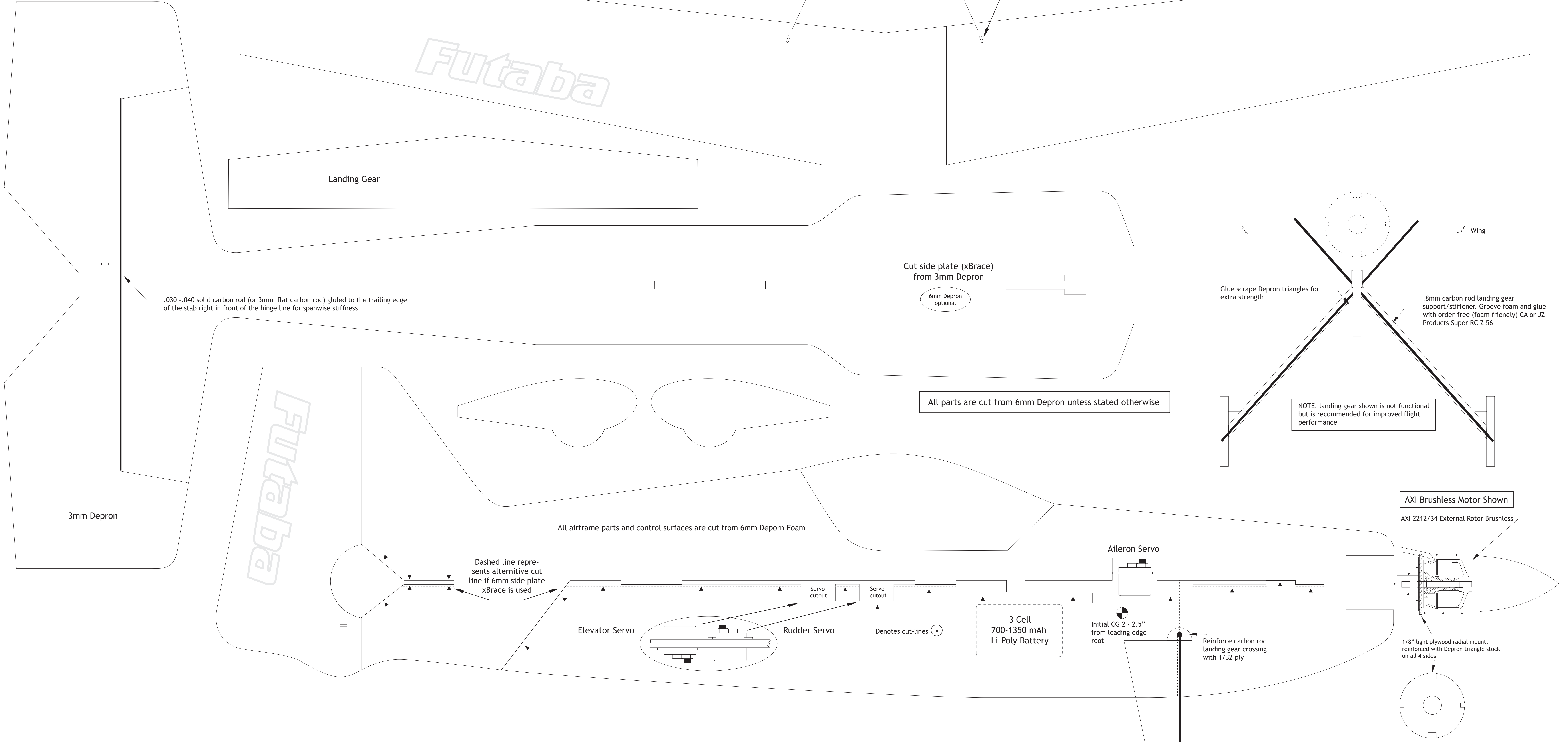
Use 1" wide clear packing
tape for hinges. Clean all parts with
rubbing alcohol before taping

Diablo-3D Park Flyer

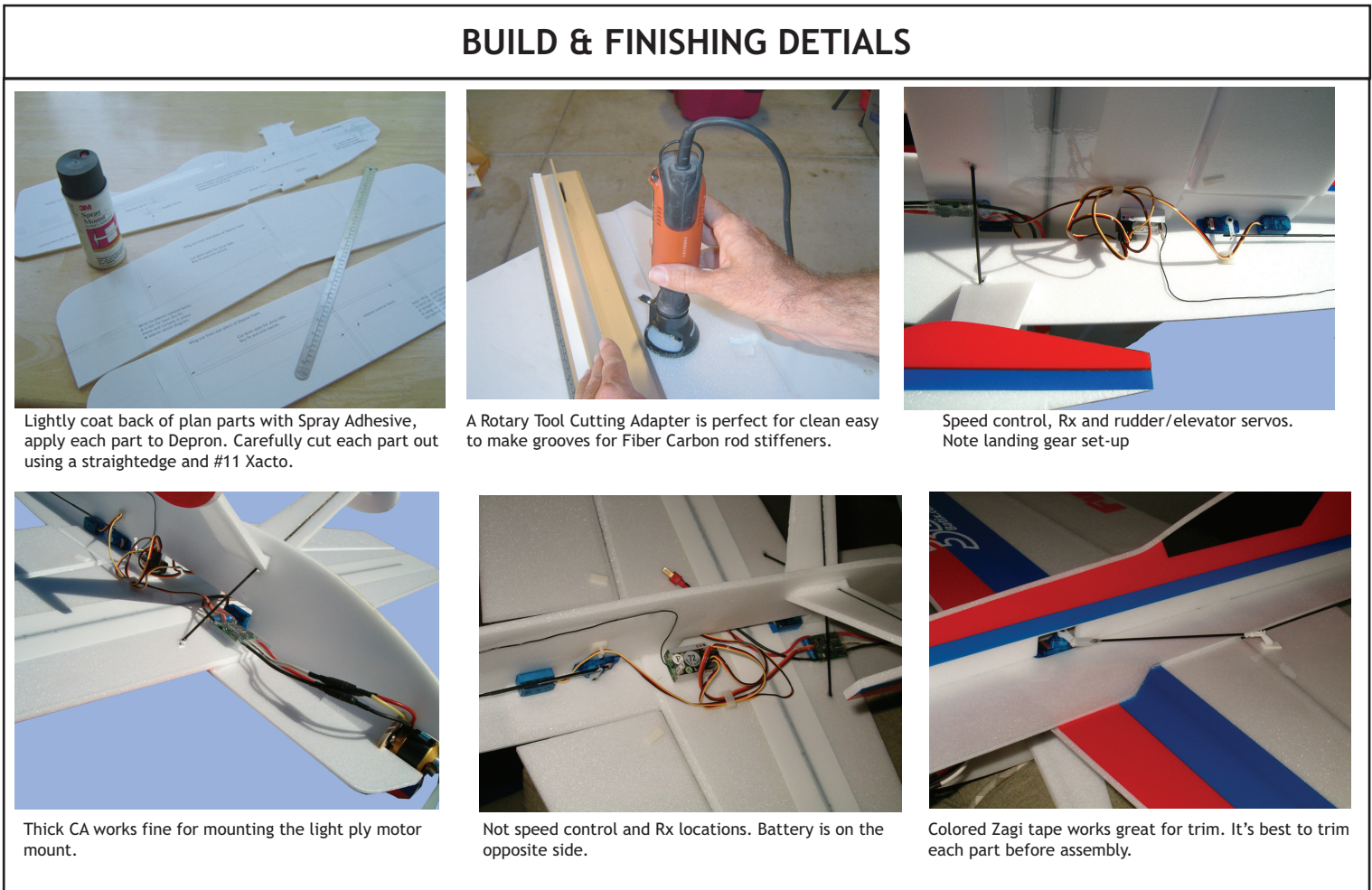


Diablo-3D Park Flyer

CG



DIABLO-3 D PARK FLYER SPECS	FLIGHT SYSTEM RECOMMENDATIONS	MATERIALS LIST	HINGE DETAIL	PUSHROD DETAIL
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	Rx and Servos * GWS R-4PH 4ch receiver or equivalent * 4 Waypoint W-384 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 (props) * GWS 12x6 Slow Flyer * APC 12x3.8 electric slow flyer	* 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-rite Micro Control Horns No. EFLA200 OR... 4 Du-Bro Micro E/Z Links 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 * 3M Photomount Spray Adhesive (see plan transfer to fuselage)	Use 1" wide clear packing tape for hinges. Clean all parts with rubbing alcohol before taping. 	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.







Wing cut from one pie

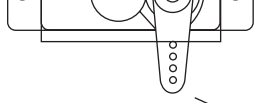


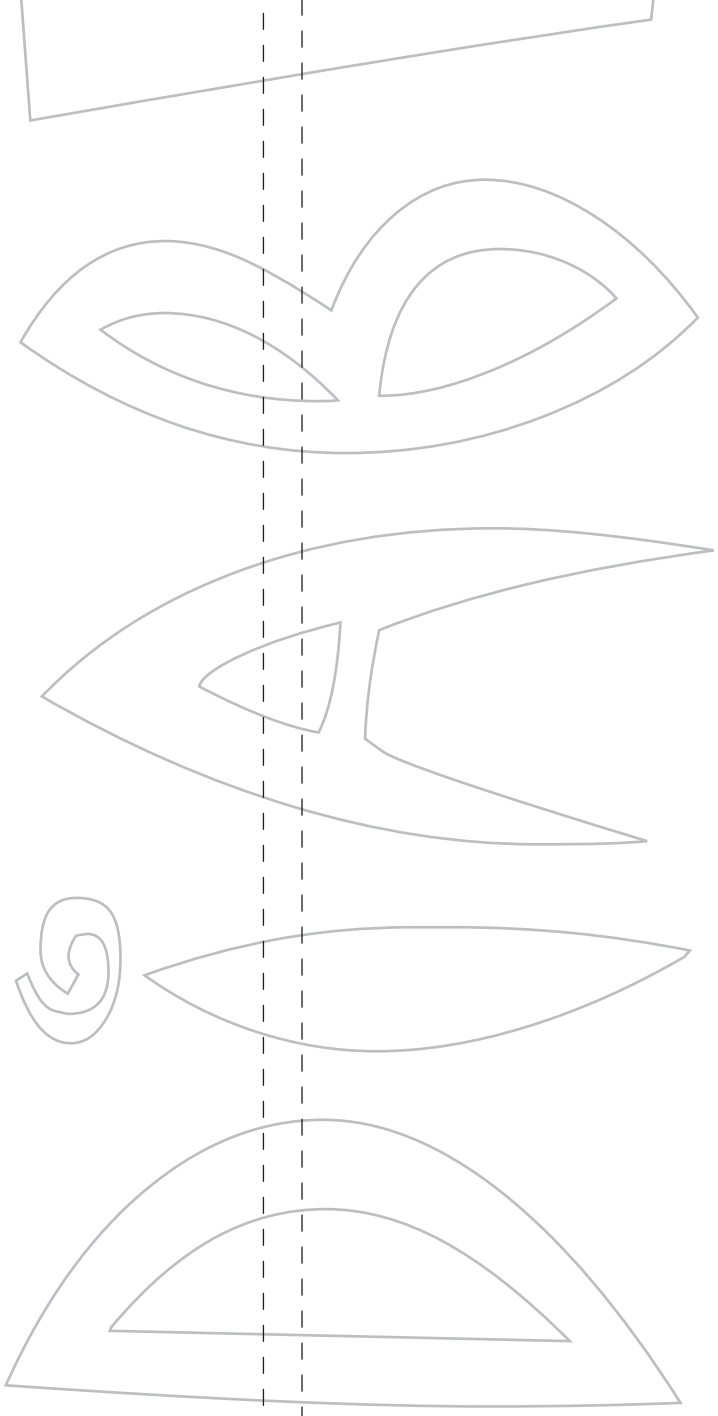
4mm carbon fiber tube. Cut
wing only and CA or RC-56 i

Diablo-3D Park Flyer

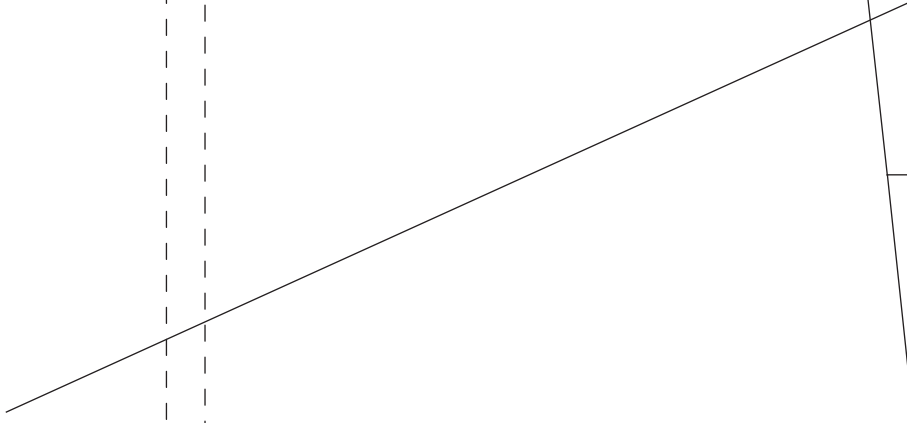
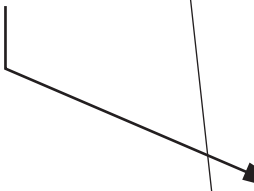
ce of 6mm Depron foam

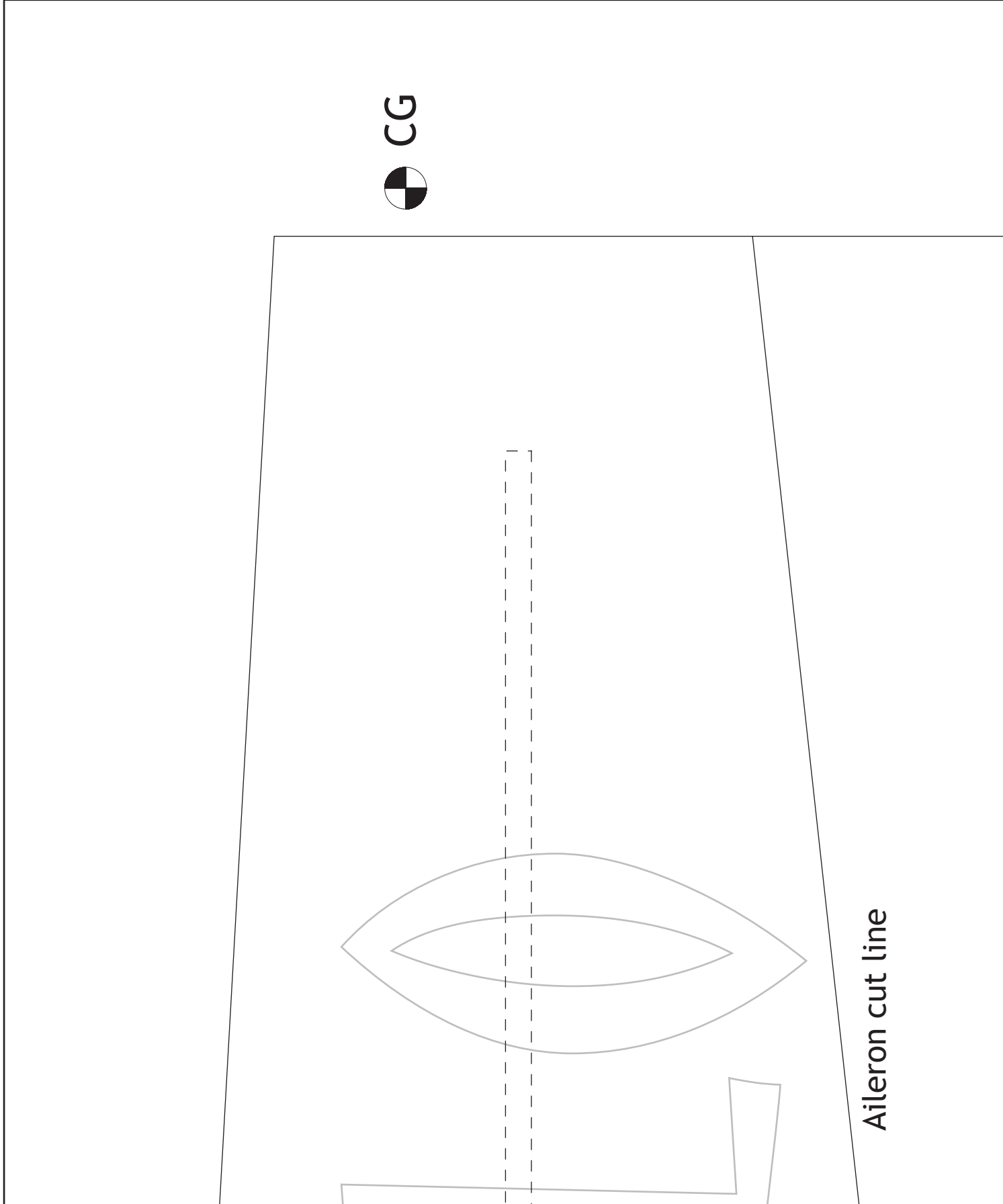
t a channel (per plan) on the bottom of the
n place.





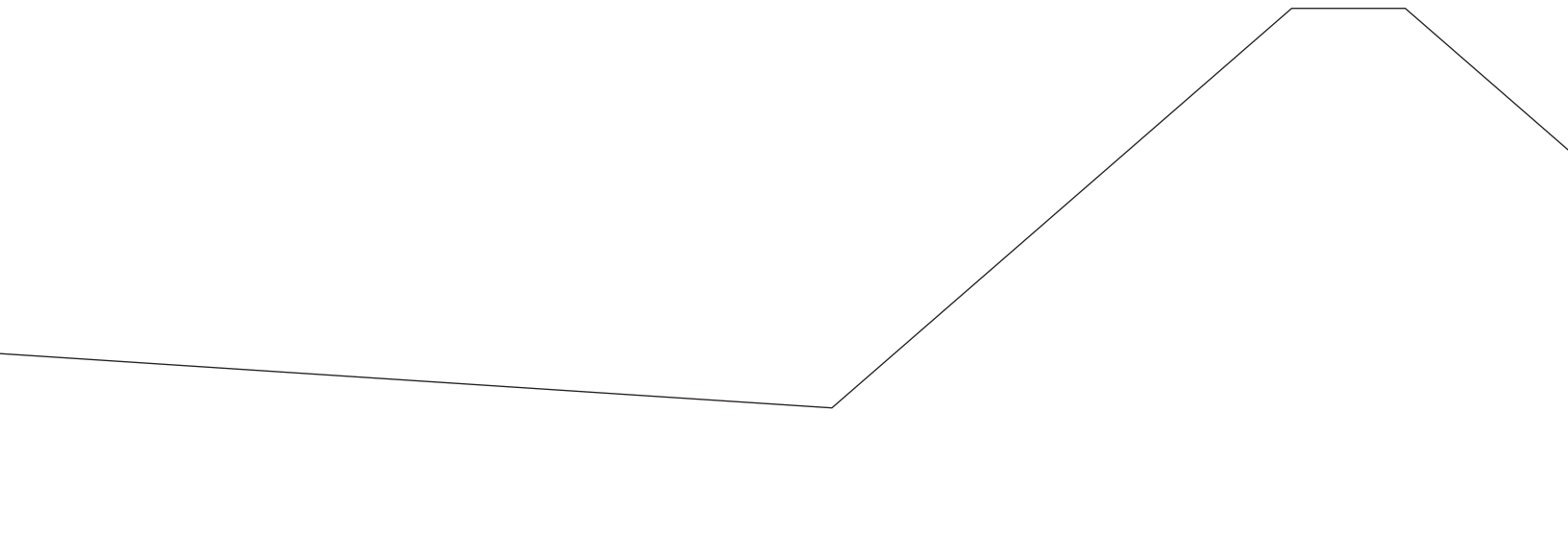
Aileron control horns





CG

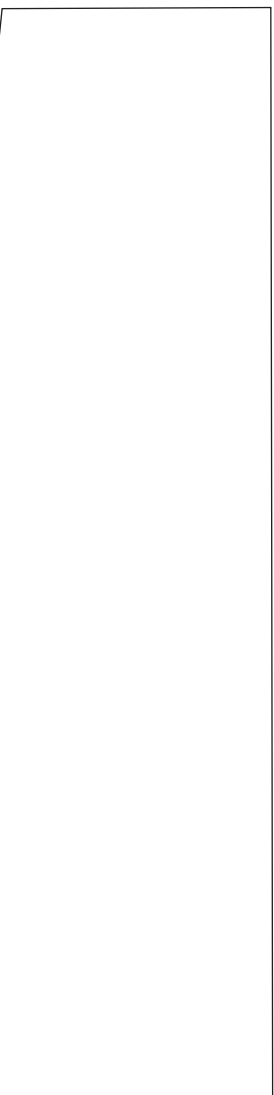
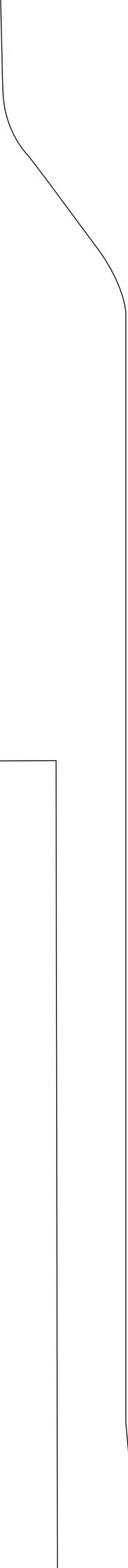
Aileron cut line



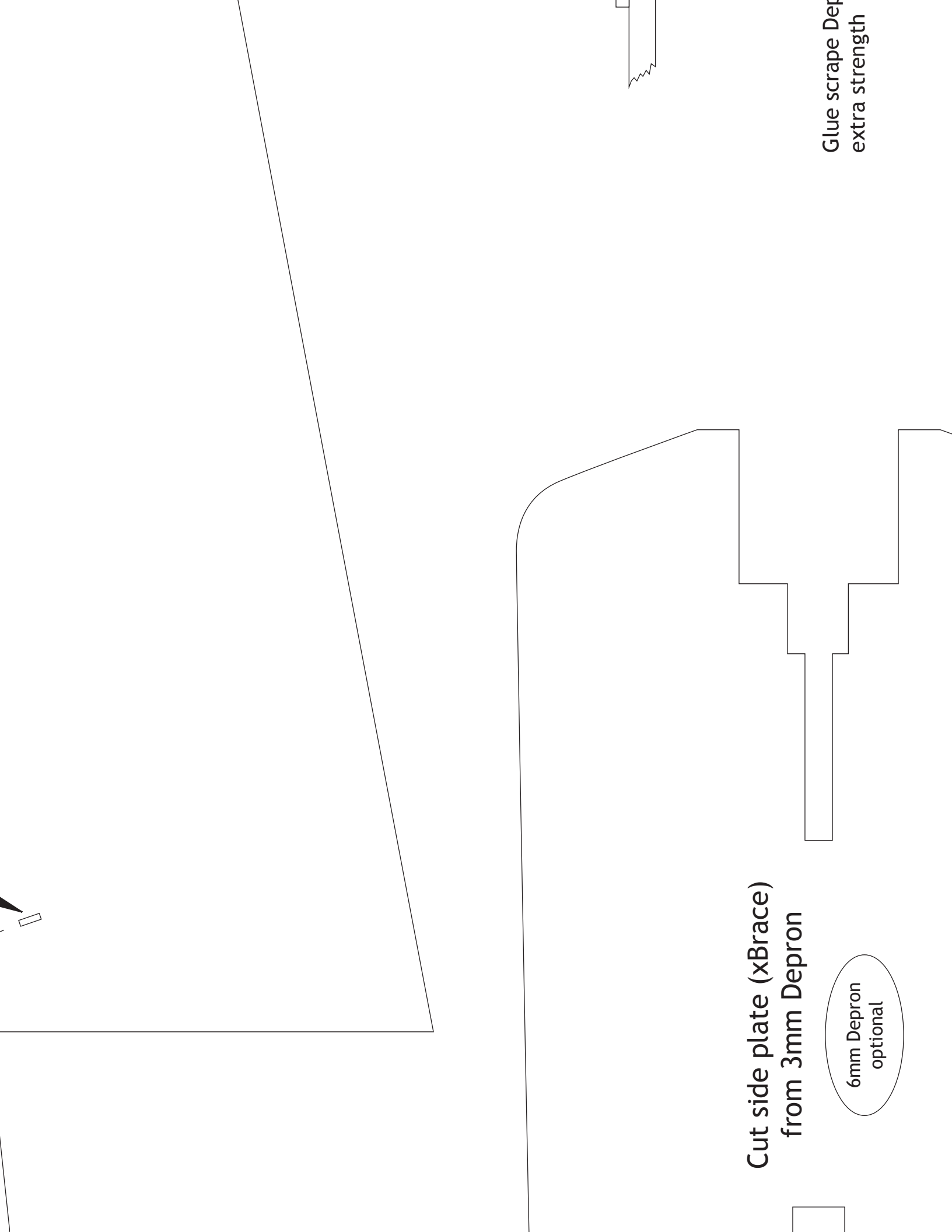
FULL

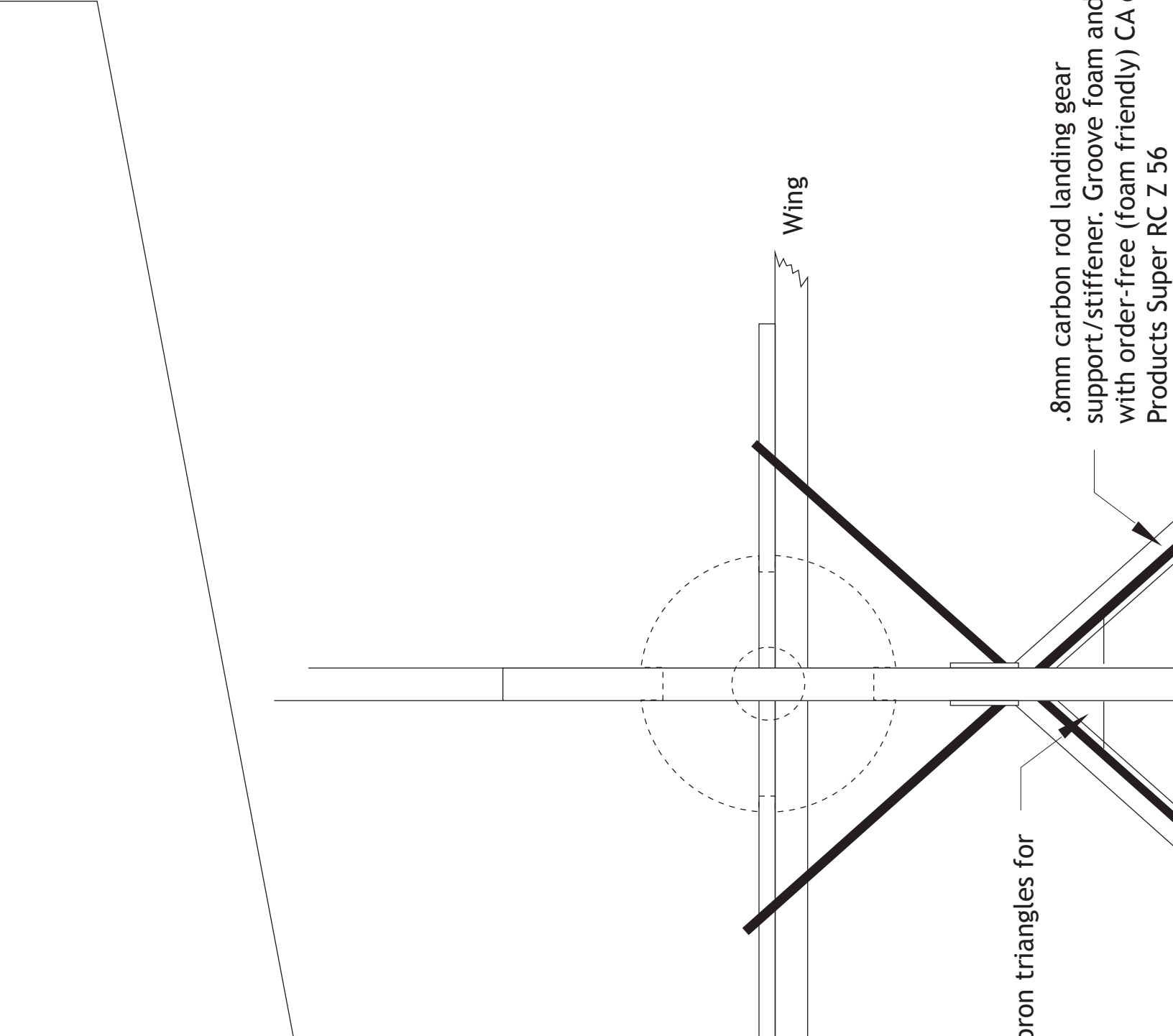
Landing Gear

.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



2024





Wing

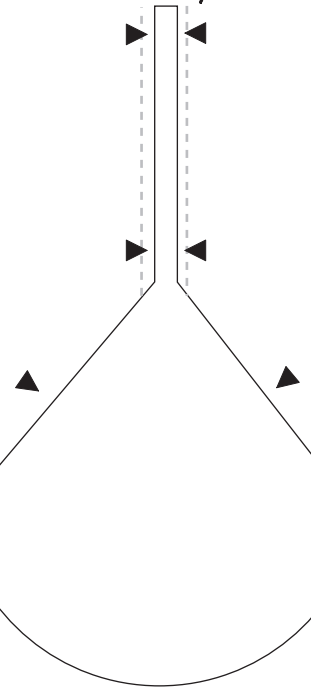
carbon triangles for

.8mm carbon rod landing gear support/stiffener. Groove foam and glue with order-free (foam friendly) CA or JZ Products Super RC Z 56

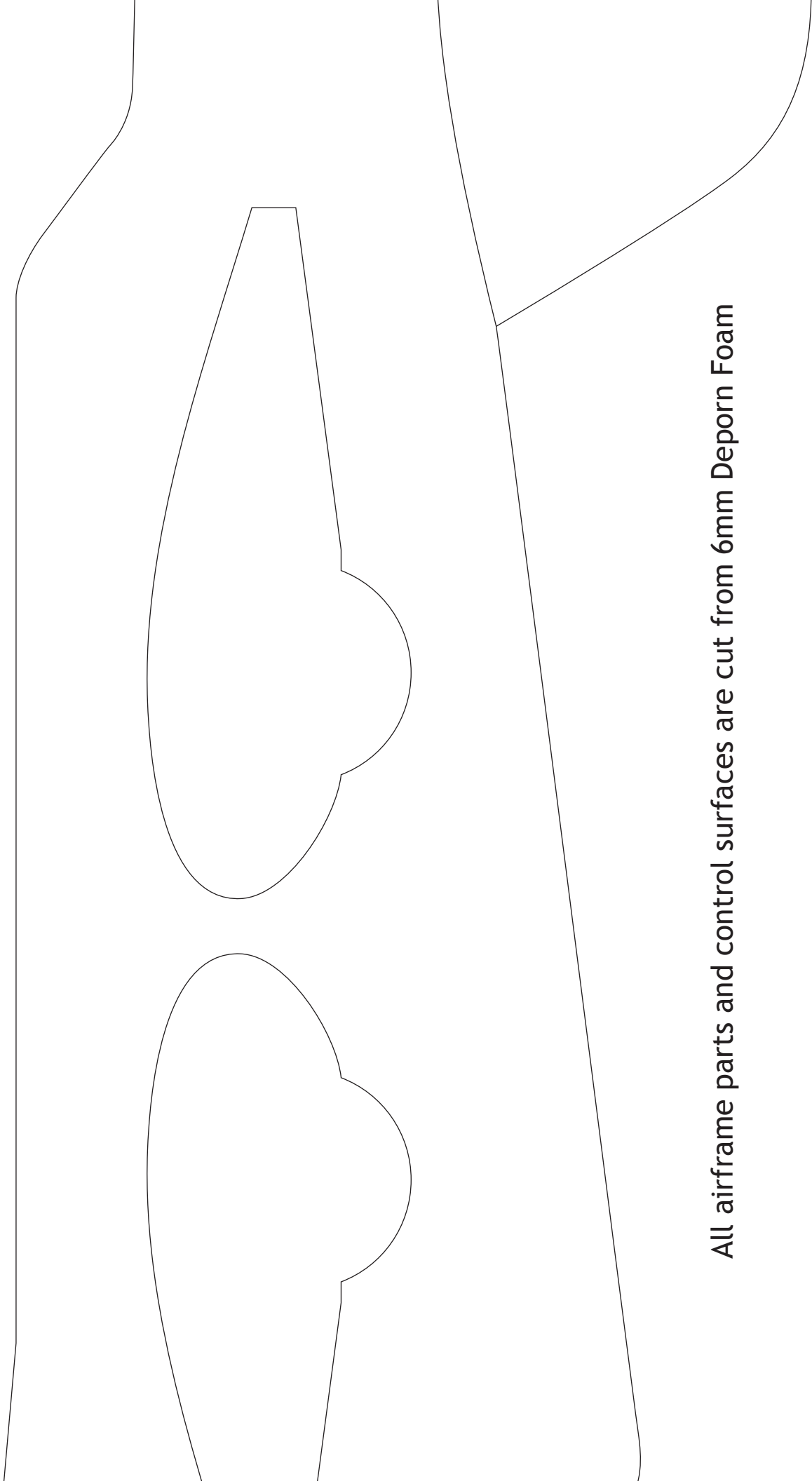
3mm Depron



Dashed
sents alt
line if 6m
xBrac

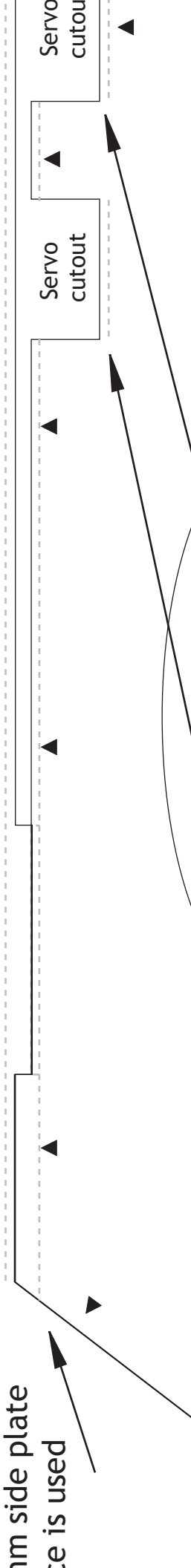


Futaba

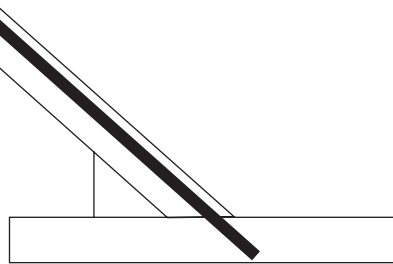


All airframe parts and control surfaces are cut from 6mm Deporn Foam

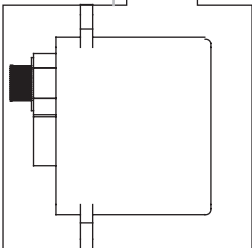
line repre-
cognitive cut
mm side plate
ce is used



All parts are cut from 6mm Depron unless stated otherwise



Aileron Servo



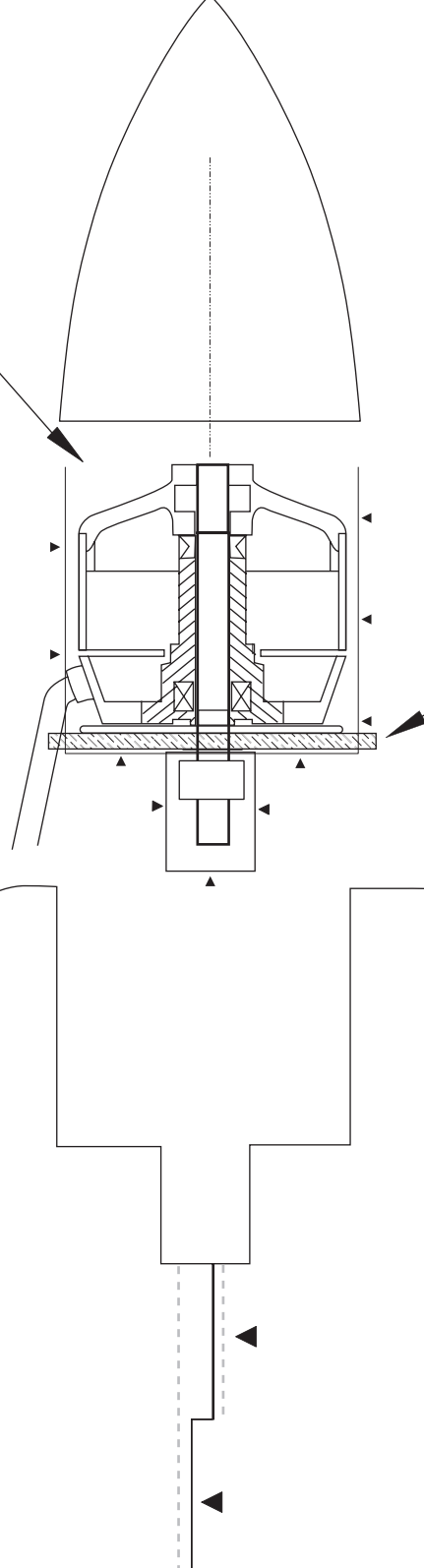
Initial CC 2 3 E

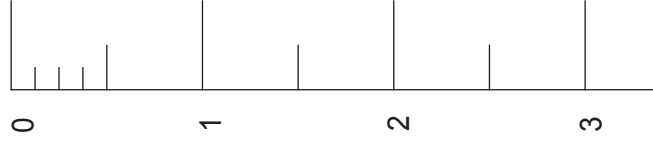
3 Cell

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

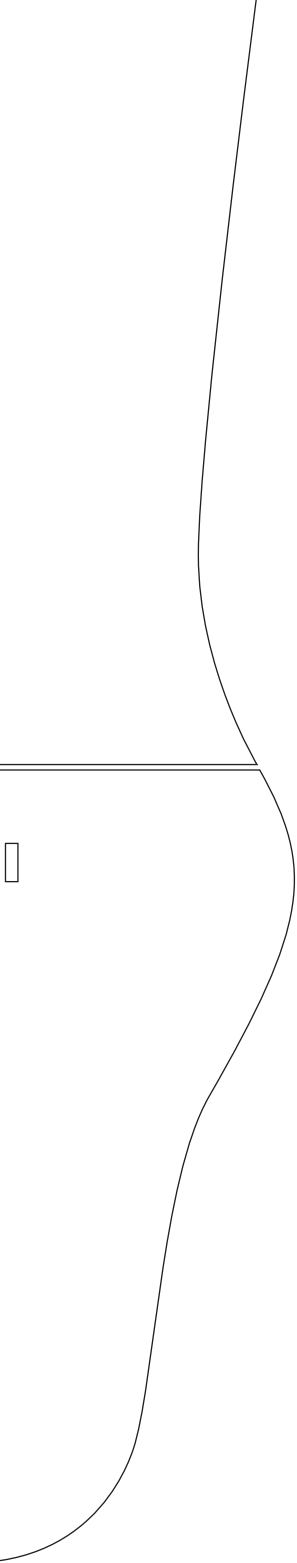
AXI Brushless Motor Shown

AXI 2212/34 External Rotor Brushless





Inch Scale reference,
check after printing.



DIABLO-3 D PARK FLYER SPECS	FLIGHT SYSTEM RECOMMENDATIONS
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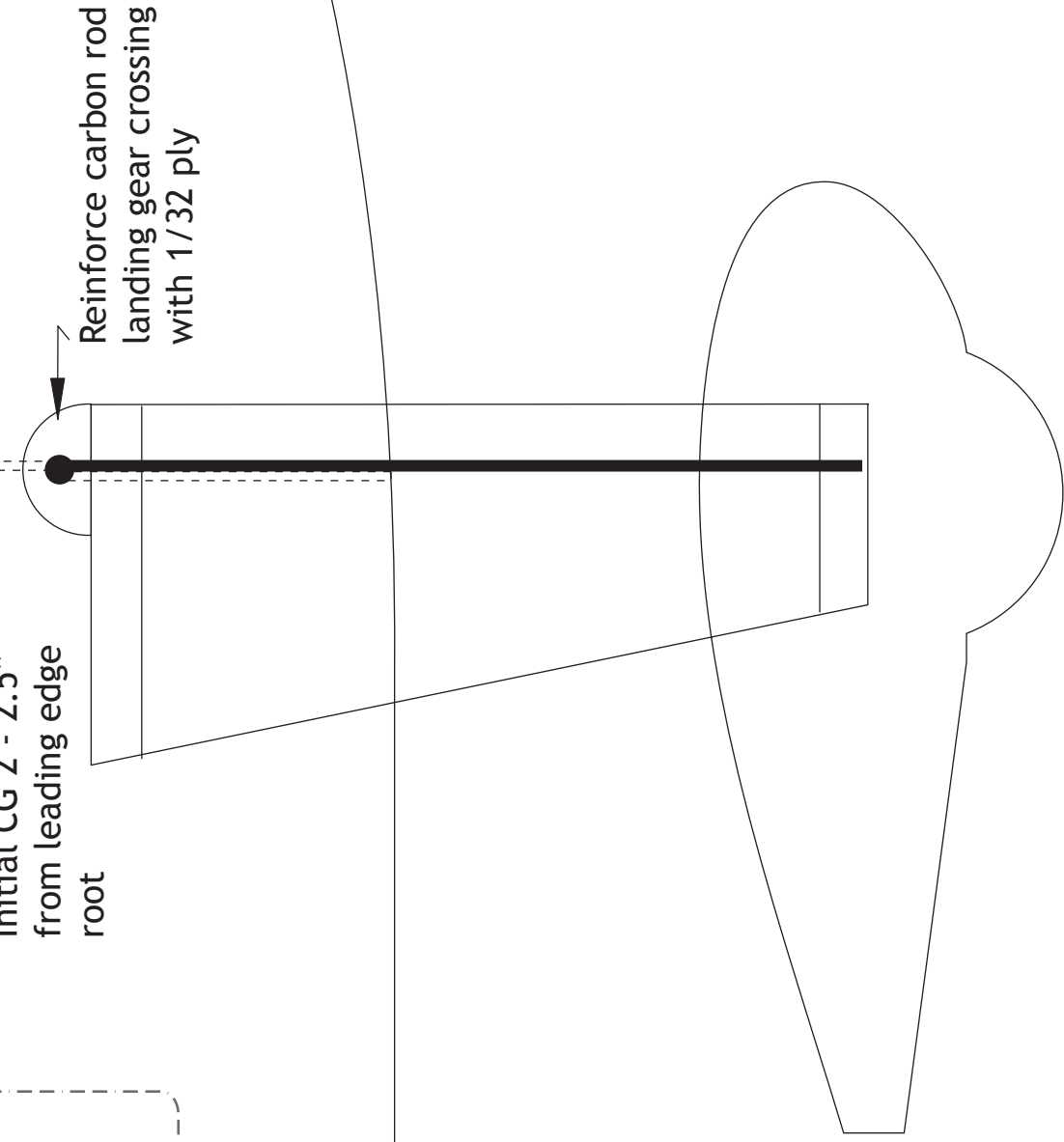


notes cut-lines

700-1350 mAh
Li-Poly Battery

Initial CG Z - Z.3
from leading edge
root

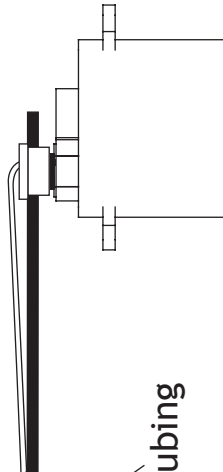
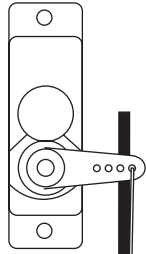
Reinforce carbon rod
landing gear crossing
with 1/32 ply



ROD DETAIL

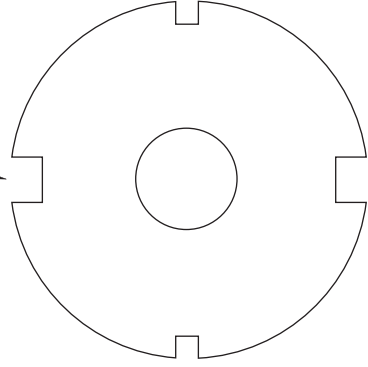


control rods

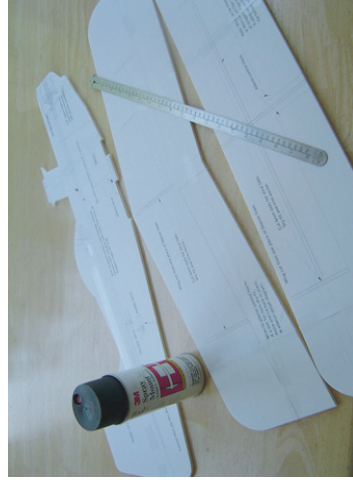


tubing

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



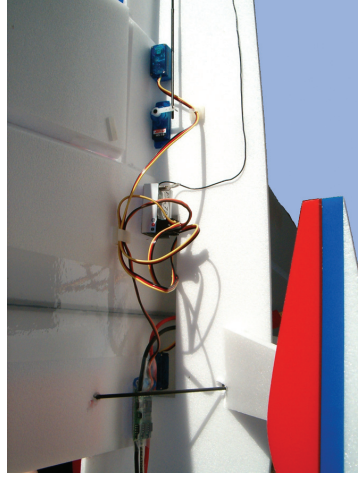
BUILD & FINISHING DETAILS



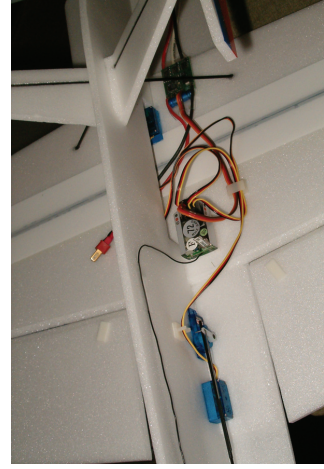
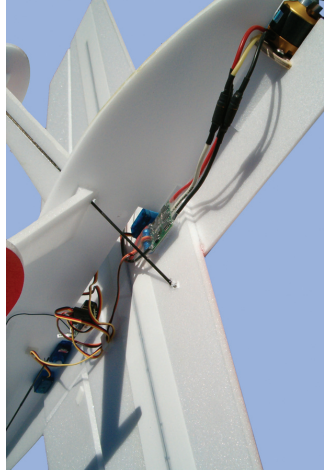
Lightly coat back of plan parts with Spray Adhesive, apply each part to Depron. Carefully cut each part out using a straightedge and #11 Xacto.

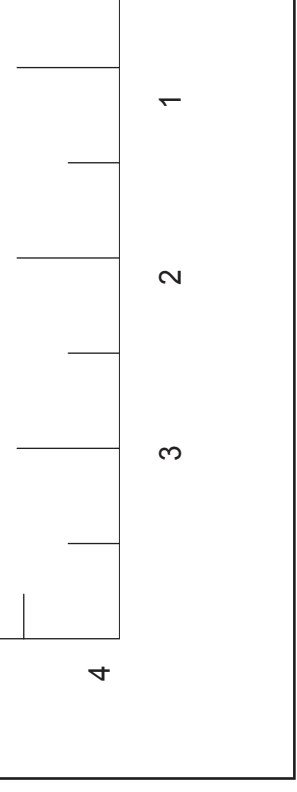


A Rotary Tool Cutting Adapter is perfect for clean easy to make grooves for Fiber Carbon rod stiffeners.



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.

To whom it may concern:

My name is Zak West, owner of the website www.3dbatix.com. I am located in the bay area of California and specialize in promoting aerobatics with radio controlled model airplanes. At 3DBatix, we offer several plans free of charge in PDF format for our viewers to construct at their own will. It has come to our attention that some of your stores have been denying some of our website members from printing off the plans in your stores due to lack of documentation verifying the proper usage, and distribution of the plans. This letter serves the purpose of declaring permission for any of our users to print the plans for our aircraft without ramifications or legal action taken by 3DBatix.com against your stores. The purpose for providing the plans online is to allow members of our community to construct these airplanes as cheaply and as quickly as possible. Our airplanes are meant to be accessible to anyone wishing to construct them and we freely welcome any individuals willing to construct our designs.

Thank you,

Zak West
3DBatix Team members