FOAMe IIx 3D Park Flyer Designed by Steven Gibson

Groove and glue in 2mm wrapped carbon tube using medium CA.

Remove Material

Rear

Front

Denotes cut-lines

Bottom wing cut from one piece of 6mm Depron foam

Cut 6mm slots for strut tabs. Dry fit and trim excise.

Strengthened with 4mm carbon fiber tube (bottom wing only). Cut a channel (per plan) on the bottom of the bottom wing only and CA or use RC Z 56.

Aileron servos.
Use Dubro Mini E/Z Connetors for easy ajustments. Mount using 3M Double Coated Industrial Foam Tape

Bottom Wing

TOP wing cut from one piece of 6mm Depron foam

Cut 6mm slots for strut tabs. Dry fit and trim excise.

FOAMeIIx3D

Aileron to aileron control horns. Cut a slot for horn dry fit, remove and CA back in place. See aileron detail diagram.

Top Wing

Tip: Fabricate Aileron to Aileron control horns out of Dubro Micro 90 Bellcranks. Use medium CA to secure.

Top/bottom tabs are extended to allow for flush trimming during dry fitting of wing.

Wing

Glue scrape Depron triangles for extra strength

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

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

Rudder cut line

Xbrace fuselage stiffener. Glue with order-free (foam freindly) CA or JZ Products Super RC Z 56

Remove Material

Rudder Servo

Elevator Servo

Pushrods - .070 Carbon Fiber Rod with .032 Wire Ends

Denotes cut-lines

AXI 2208/34 External Rotor Brushless

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

2-3 Cell 700-1300 mAh Li-Poly Battery

Bottom Wing

Bottom Tab

Note: Battery location is approximate. Adjust accordingly based on battery weight, dimensions and desired flight characteristics. Mount using self-sticking hook and loop (Velcro) tape.

Dubro Micro Tail Skid

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

Notch 1/8 lite plywood AXI motor mount 6mm at top/bottom.

Reinforce carbon rod landing gear crossing with 1/32 ply

Front

Rear

Inch Scale reference, check after printing.

0 1 2 3 4

3 2 1 0

FOAMe IIx 3 D PARK FLYER SPECS

Wing Span..... 30.5"
Length.....33"
Weight.....14-15oz
Power..... AXI 2212/34
Prop..... GWS 12x6 Slow flyer
Ch..... 5 (4 servos + speed controller)
Battery..... 3 Cell-700 to 1320mAh-Li-Poly

FLIGHT SYSTEM RECOMMENDATIONS

Rx and Servos
* GWS R-6Nll 5ch receiver or equivalent
* 4 Waypoint W-084 Micro Servos or Hitec HS 55
Brushless Motor
* AXI 2212/34 outrunner (Max 30 performance)
Speed Controller
* Phoenix 25amp speed controller
Battery
* 3 Cell 700-1350mAh-11.1v Li-Poly
Prop(s)
* GWS 12x6 Slow Flyer
* APC 12x3.8 electric slow flyer

MATERIALS LIST

* Depron 6mm (www.depronusa.com)
* 30" 4mm & 2mm wrapped carbon fiber tube
* .070 Solid Carbon Rod (push rods + stab 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-Elite 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
* Du-Bro RC Electric Flyer Hinge Tape (3M Blenderm)
* Zagi tape for trim scheme (optional)
* Straight edge razor-blades
* No. 11 Xacto knife
* Metal yardstick
* 3M Photomount Spray Adhesive (for plan transfer to Depron)

HINGE DETAIL

Best results are achieved by using 1" wide Du-Bro RC Electric Flyer Hinge Tape (3M Blenderm) for all hinges. Clean all parts with rubbing alcohol before applying.

Tape

Bevel leading edge of all control sufaces 45°

PUSHROD DETAIL

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 rods

.040 Solid Carbon Rod push rods

Heat shrink tubing

Look for more bulid tips online at: 3Dbatix.com


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


Carefully cut each out using a straightedge and #11 Xacto.


Dry fit assembly--check alignment.


A Rotary Tool Cutting Adapter is perfect for clean, easy to make, grooves for Fiber Carbon rod wing spar. Glue spar in with RC Z 56 or medium/thick CA.


Apply trim scheme before final assembly.Zagi tape works great! It's best to trim each part before assembly.


Assemble using RC Z 56 or medium or thick CA. great for trim.

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