



- BUILD NOTES**
1. This design is to be built using Dollar Tree Foam Board (DTFB) or other similar materials, Avery #18665 Clear Mailing Labels, 1.2mm carbon fiber rods, White Gorilla Glue, and a disk of 1/8" plywood for the motor mount.
 2. Cutting all of the "swiss-cheese" holes can be tedious, so you may want to make two tools to simplify the process. Get a length of 1/4" dia, and 1/8" dia. brass tubing to use as a punch. File and sand the outer wall to sharpen it into a tubular cutter.
 3. Make an extra copy of the plans, then cut it into these parts: Fuselage/Fin/Rudder, Wing, Stab/Elevator, and Fuselage sides. Use rubber cement to glue the patterns to the DTFB and cut along the outer edges of those major pieces. DO NOT cut the ailerons, elevator, or rudder apart yet.
 4. Remove the DTFB's paper from the bottom side of the parts. Dampen with water if it sticks.
 5. Use the Brass punches to cut holes where each fillet occurs. Then use a new X-Acto blade and a metal straight edge to cut the lines between the holes. The excess foam should drop out.
 6. Groove the foam for the Carbon fiber rods and glue them in place with the White Gorilla Glue and cover with a piece of Micropore paper bandage tape. Use a very small amount of the glue as it expands. The tape will control the foaming.
 7. Cut the Ailerons, rudder and elevators loose. Bevel the undersides of all hinge edges, and the right sides of the rudder hinge. Cut slots in the fuselage for the wing, elevator, and aileron servo.
 8. Remove the top piece of DTFB paper with the plans. The foam will be bare on both sides.
 9. Use tape on the bottom surface of the ailerons, rudder, and elevators to hold them in place while the covering is applied. Apply the Avery #18665 Mailing Label material to the top side of the wings and stab/elevator and the left side of the fuselage. This covering will be the hinge for all movable surfaces.
 10. Install the aileron servo into the wing, then slide the wing into the fuselage.
 11. Make and install the elevator tie-wire, then slide the elevator into the fuselage, along with the fuselage plug behind the elevator. Tack the wing and elevator to the fuselage with a few dots of hot glue on the underside of the wing and top side of the elevator.
 12. Install the plywood motor mount to the fuselage.
 13. Test-fit the Fuselage Sides and notch as necessary to fit around the Aileron Servo. Use a thin bead of hot glue along the Fuselage Side and set it in place starting with the Motor Mount, over the wing, and under the elevator. Put a few dots of hot glue between the outer edge of the Fuselage Sides and the Wing and Stabilizer for stability. Hot glue is heavy, so use it sparingly.
 14. Cut the holes for the aileron servos through the Fuselage Sides and the Wing, then install the servos.
 15. Install the Control horns on the Ailerons, Elevator, and Rudder. Make pushrods and install them.
 16. Landing Gear is optional. Uver the lightest gage wire that will support the plane, or use two pieces of left over carbon fiber rod "X"ed through the fuselage.
 17. Install the Motor and propeller, then lay the ESC, battery, and receiver in various positions until the plane balances properly. Then secure those parts.

DMORRIS DESIGN

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Micro Funtana UL
Original Design by Doug Morris
Foam Board Construction
21" Wingspan 105 sq.in. Wing Area
19" Length 3 oz. (85 gram) Weight
Kinexsis 2211(1700kv) 10 Amp ESC
2S 7.4v 250 mAh LiPo Battery

Scale in Inches

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