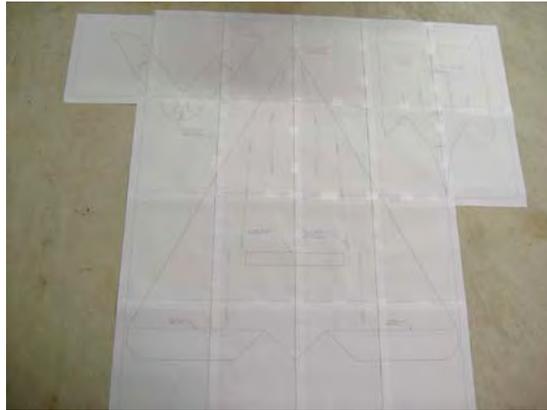
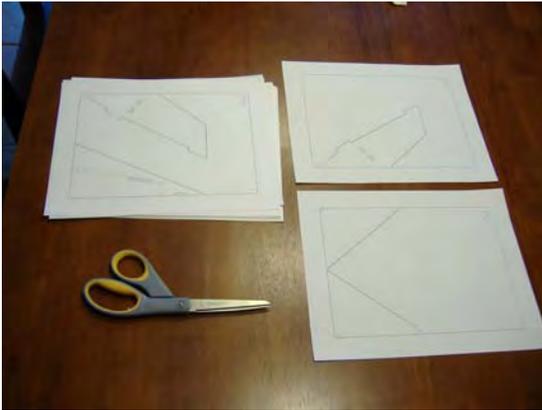
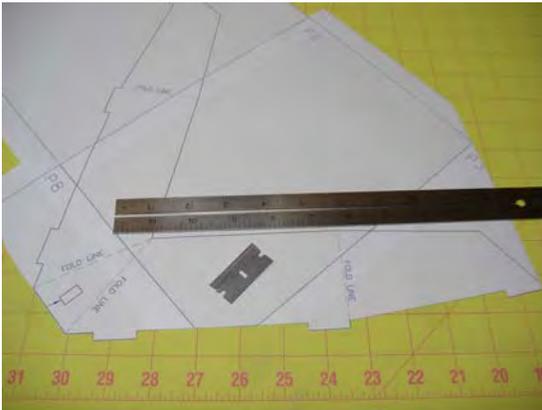


Print template tiles and put together with clear tape to complete template.



Cut each pattern out with scissors or use a razor and strait edge ruler. Use the ruler as a guide for the razor to get nice strait cuts.

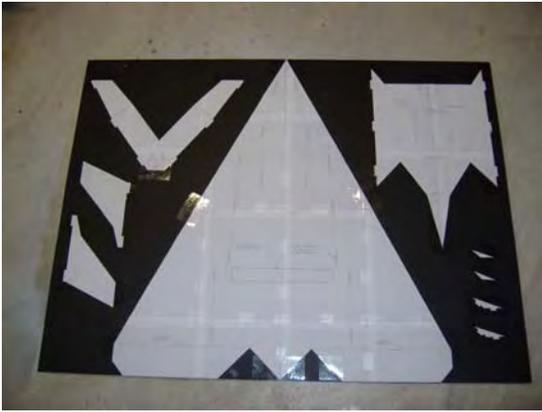


Glue two pieces of foam board together. Clear tape one side to hold pieces together then bend open and apply foam safe CA glue. Lay flat and tape other side while glue dries.

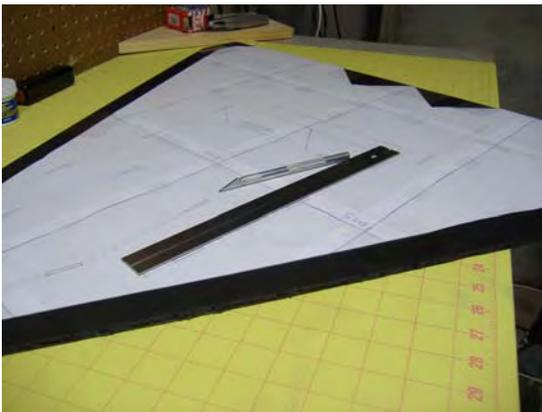




Clear tape the wing, fuselage, tail and nose brace templates to foam board. Use seam on foam board as centerline for wing template.



Mark all notches, slots and locations on wing. Mark all fold lines on forward and rear fuselage pieces along with hatch cut lines on rear fuselage. Sit straight edge ruler on patterns and use as a guide to cut out all parts with box cutter.



Clear tape all pieces before assembling. This makes the taping process much easier because everything is flat. you only need to tape the outside on the two fuselage pieces. all other pieces should be completely sealed.



Cut all notches laid out from template on top of main wing. Only cut into top layer of paper and into foam. Remove foam from notches with small screwdriver. Do not cut all the way through other side.



Cut out and assemble the motor stick mount and base plate. Trial fitting everything, then glue mount together with CA glue. **Do not** glue to wing yet. Remove the tape under where the mount will sit by cutting with an Exacto knife or razor. Peel off tape being careful not to tear paper. To minimize this go around the edge of the tape lightly with the razor before removing. Poke small holes into the foam under the mount and scuff the bottom of the wood to provide a more secure bond.

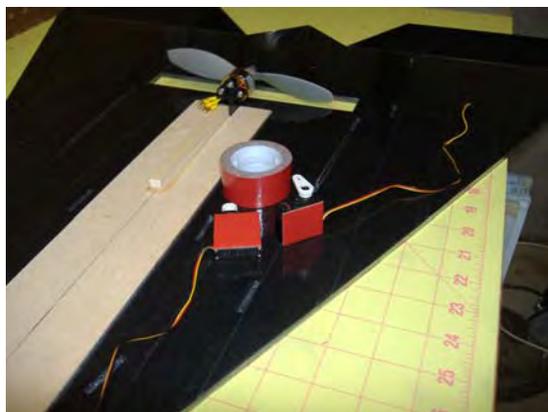


Now test fit wooden motor stick mount with the motor and prop attached. It is very important that the motor is centered on the seam which is also the centerline of the wing. The propeller should be centered front to back and side to side over slot. Next use 5 minute epoxy to fix the mount to the wing. Mount should be centered on seam and the prop square with slot.

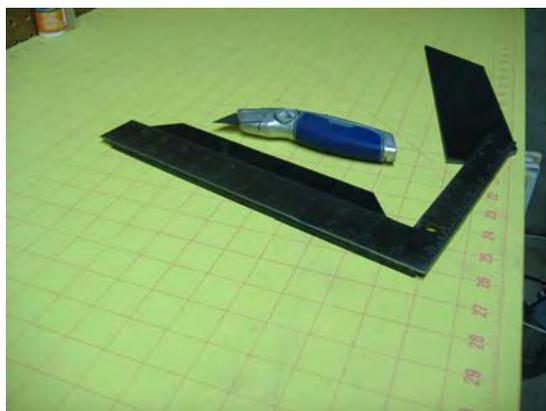


Fit fuselage pieces using bevel and fold technique. Place straight edge ruler parallel with fold line about a ¼ inch away from line. Slide box cutter along ruler angling tip towards fold line. Rotate part 180 degrees and cut the same amount from other side. **Do not** cut all the way through foam board. Remove beveled foam from groove then fold at fold lines. **Do not** glue to wing yet.

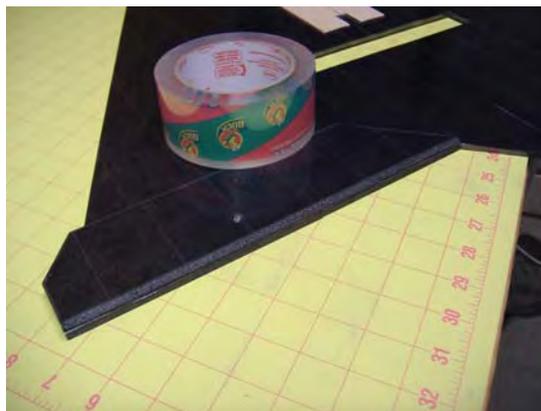
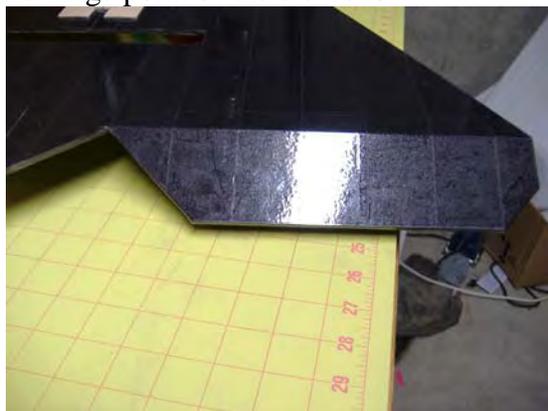




Install servos with double sided tape or hot glue use locations transferred from template. They should be mounted parallel to rear fuselage notch line.



Cut elevator/ailerons (elevons) off the back of wing and bevel bottom of hinge side at 45 degrees or more. Use the straight edge ruler and line it up on top of the edge to be beveled. Holding ruler down firmly, slide box cutter along ruler with tip angled in at 45 degrees or more. Make multiple passes if necessary. Beveled edge must be straight because it will be the hinge point of the elevons.



Attach elevons to wing with beveled edge facing down. Tape the top first with the edge firmly against the back of wing and flap in the farthest down position. Then flip up till it is sitting flat on top of wing. Now tape the bottom of the elevon and wrap tape down around to the bottom side of wing.

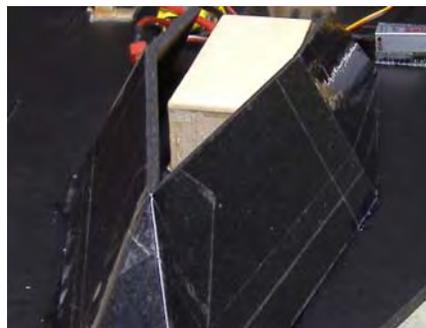
Next install servo horns and control rods. Make sure control rods are outside the line where fuselage mounts or there will be interference problems. they should run parallel to fuselage notch line.



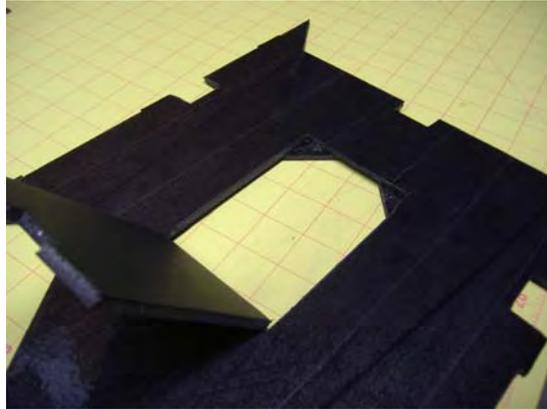
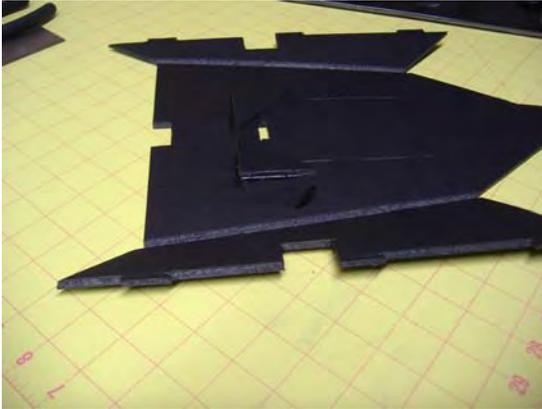
Install all radio equipment and speed controller. Velcro works great for this. Hot glue forward fuselage into notches in wing. Only glue down do one side first then the other side otherwise glue may cool to fast to get fuselage piece into all slots.



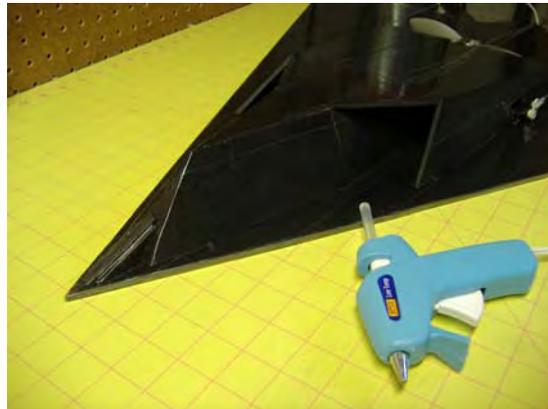
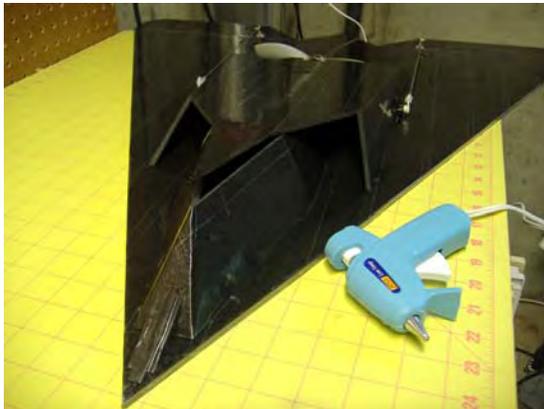
(REVISION) - Build battery box. The battery box makes inserting and removing batteries from plane much easier. Custom fit the box to the batteries you use. Box should be slightly undersize so batteries fit snugly. Glue battery box as far forward as possible or mount with Velcro to help with dialing in CG. Recommend 2200mah Lipos 20c or more.



Glue two triangle pieces of foam board on bottom side of rear fuselage at rear corners of hatch. This is where the magnets will go to lock down the hatch.



Fit rear fuselage section. The rear fuselage piece will need to be beveled on the bottom side of each edge at the front to fit down into the forward fuselage piece. Cut fold line at the bottom of piece to be folded down.



Hot glue rear tail stabilizes in place. (REVISION) Glue in a wooden brace on top of sick mount to the point in between the two triangle foam board pieces under hatch. This keeps the airframe and wing from flexing. See pictures of original plane at bottom



Test the center of gravity with everything on the plane. Slide the battery forward or to the rear till the center of gravity is correct. (Windy) CG is 15.5 measured from front tip of plane back (no wind) 16 inches back.

Add some detail stickers and you are almost ready to go flying.

