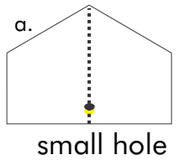
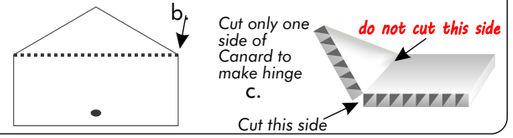
WARNING: Super glue will be used in the next two steps! Seek adult supervision!

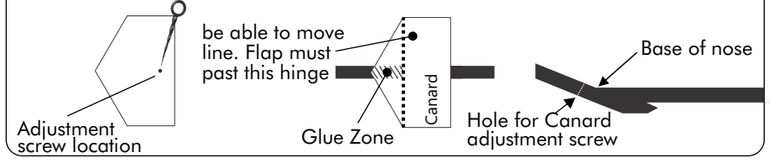
12. From the Template cut out the vertical stabilizer and the canard. Position both control surfaces so the flutes run left to right just like the wings. Use a thumbtack to poke a small hole in the canard, as in a.



Now we need to make the hinge in the canard. If you look at the canard, find where the angle meets the vertical side. (b)What we are going to do is cut the material on one side of the canard at this point, leaving the other side as a hinge as in c.



13. Insert the Canard adjustment screw in the hole made in the Canard in step 9, with the hinge cut facing down. Screw the canard with the adjustment screw in the fuselage hole just above the base of the nose. Remove the backing from the glue tape on the fuselage nose. Line up the Canard so the point is in about the center of the nose.



WARNING: Super glue will be used in the next two steps! Seek adult supervision!

14. Set the fuselage on a table with the nose pointing up. Insert the tail fin in the slot provided at the end of the fuselage. Inspect the tail fin for a good fit. Remove the tail fin and place a small amount of super glue on each side of fin that is covered by the fuselage. Insert tail fin until it is flush with bottom of fuselage; let the glue dry.

Film your flights and post them to catapultcruzers.com!

XC-3 CATAPULT CRUZER

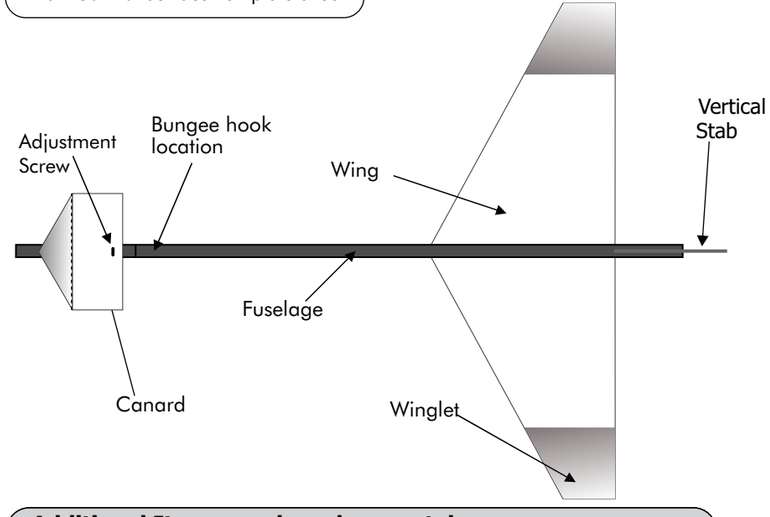
Assembly Instructions

Your XC-3 plane kit includes:

1 Ea. Fuselage
1 Ea. 4 3/4" X 16" Coroplast sheets
2 Ea. Green wire 18" inches long.
1 Ea. Canard adjustment screw
1 Ea. Foam for propping up canard
1 Ea. Control Surface Template sheet

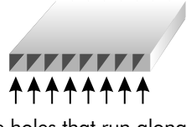
Tools required:

Pencil
Scissors or Xacto Knife
Ruler or Square



Additional Items purchased separately:

Super glue
Launch Pole (Purchased from Lowe's, Tractor Supply Company, etc.)
scissors
xacto style knife or utility knife with hook blade

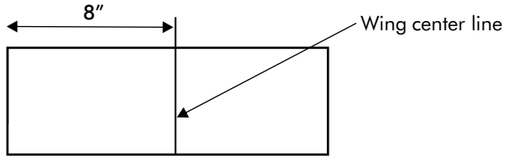


The flutes are the holes that run along the length of wing material.

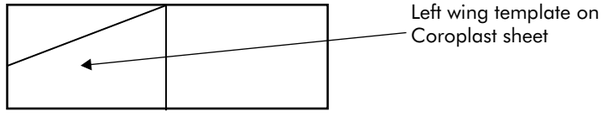
Each 4 3/4" x 16" Coroplast sheet will have enough material to make one complete set of control surfaces for the XC-3 glider. Control surfaces are the tail fin, canard and wing.

1. Remove the Control Surface Template from the kit and cut out the wing portion from the paper.

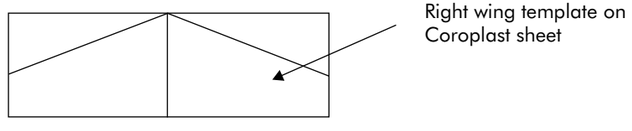
2. From the left hand side of the Coroplast sheet measure 8" to mark the center of the sheet. Lightly draw a line down the center of the sheet.



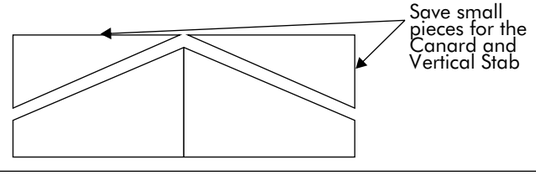
3. Next lay the left wing template over the left side of the Coroplast. Making sure that the template centerline and the Coroplast centerlines are lined up. Use a pencil to mark the left wing.



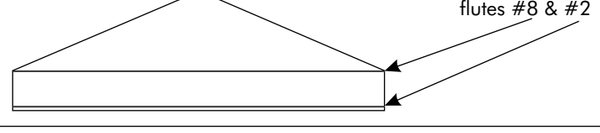
4. Turn over the wing template for the right wing and line up the centerline. When aligned, mark the right wing just like the left side.



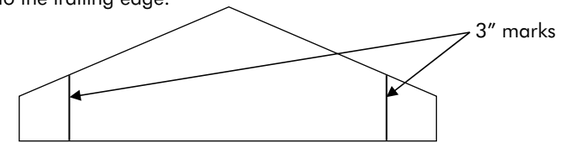
5. With a pair of scissors cut along the diagonal lines. Remove and save the smaller pieces for the vertical stab and canard.



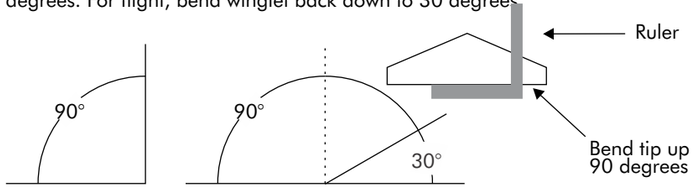
6. Insert two 18" pieces of wire in the wing flutes #2 and #8, counting from the trailing edge of the wing. Cut the wire and ensuring the wire will not to extend past the wing.



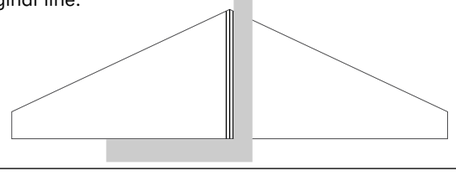
7. Measure in 3" from each wing tip and draw a line from the leading edge to the trailing edge.



8. Now it is time to bend the winglets. Lay the wing on a table and extend the wing tip past the table edge about 3". Lay a square or a ruler along the same pencil line from the above step. Pushing down on the ruler with one hand and bending the wing tip up with the other. Bend each winglet to 90 degrees. For flight, bend winglet back down to 30 degrees.

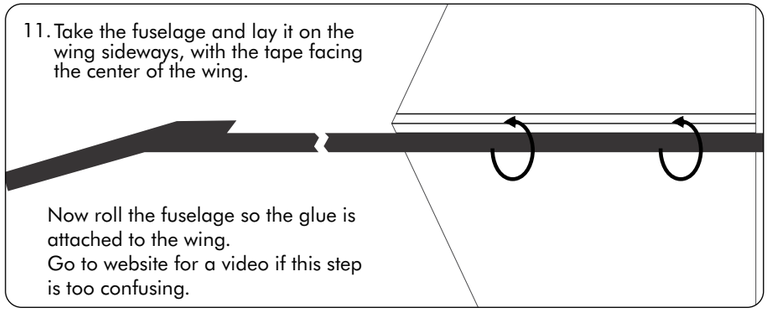


9. Find the line you drew earlier. Using a square, draw lines .125" on both sides of the original line.



10. Now peel the paper off the fuselage tape.

11. Take the fuselage and lay it on the wing sideways, with the tape facing the center of the wing.



Now roll the fuselage so the glue is attached to the wing.
Go to website for a video if this step is too confusing.