

Assembly Instructions

Your Cruzer kit includes:

- 1 Ea. Fuselage
- 1 Ea. 4 3/4" X 16" Coroplast sheets
- 2 Ea. Green wire 18" inches long.
- 1 Ea. Control Surface Template sheet
- 1 Ea. Front tip/ Canard Holder
- 1 Ea. Tail Holder
- 1 Ea. Canard Adjuster
- 1 Ea. Wing Clip

Tools required:

Pencil

Scissors or Xacto Knife Ruler or Square

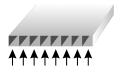
Additional Items purchased separately:

Super glue

Launch Pole (Purchased from a farm supply or hardware store, etc.) scissors xacto style knife or utility knife with hook blade

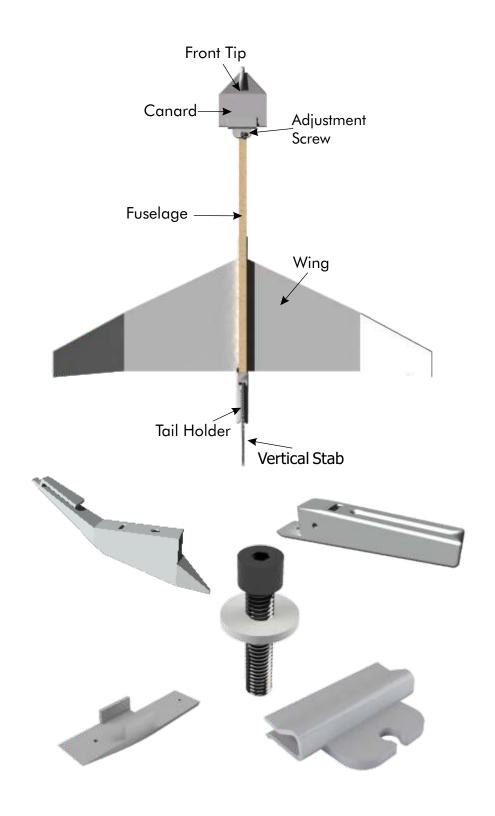
Additional Terms used in this manual.

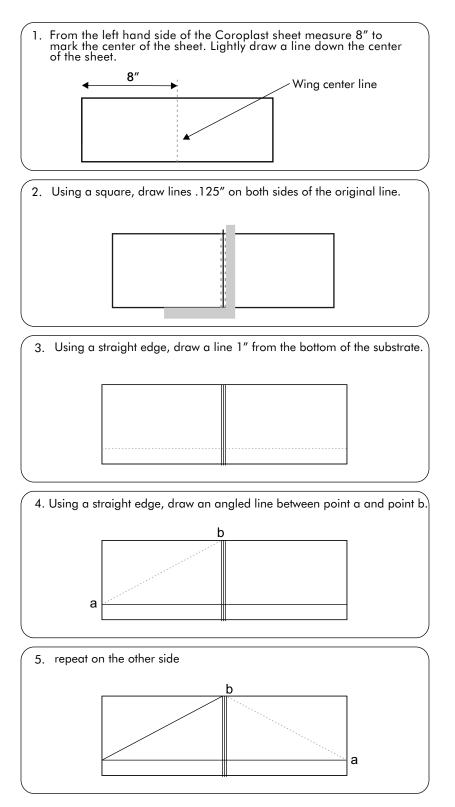
- Fuselage This means the body of the airplane. In this case it's the wood.
- Substrate This is the term in manufacturing used for the material you make things from. We will be using it to make the wing, canard, and vertical stab.
- Canard In aeronautics, a canard is a wing configuration in which a small forewing or foreplane.
- Vertical Stabilizer Sometimes called a tail fin, Provides stability to the flight.

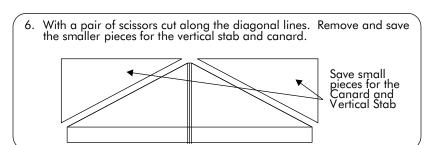


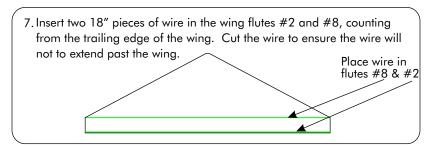
The flutes are the holes that run along the length of wing material.

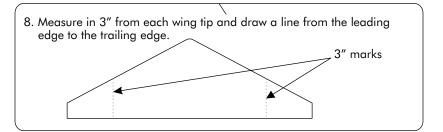
Each 4 3/4" x 16" Coroplast sheet will have enough material to make one complete set of control surfaces for the XC-3 glider. Control surfaces are the tail fin, canard and wing.

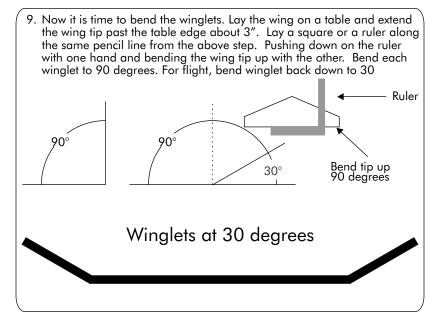


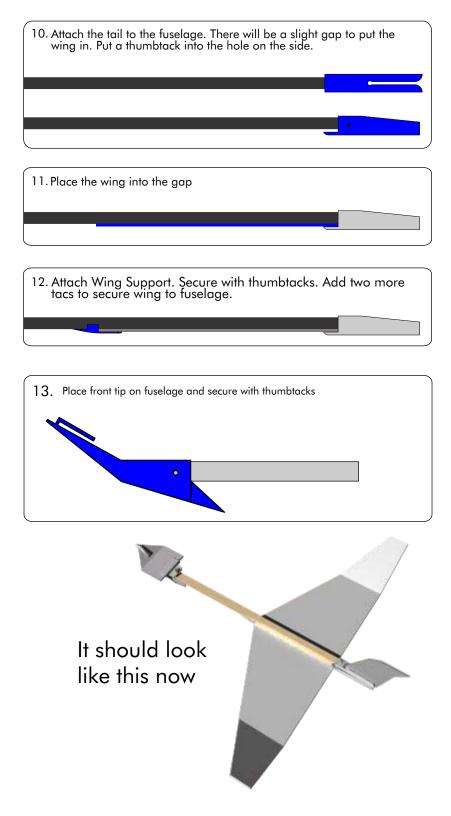




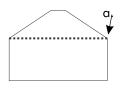




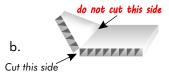




14. From the Template cut out the canard. Position both control surfaces so the flutes run left to right just like the wings.



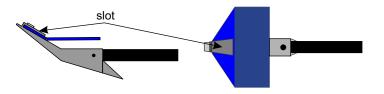
Now we need to make the hinge in the canard. If you look at the canard, find where the angle meets the vertical side. (a)What we are going to do is cut the material on one side of the canard at this point, leaving the other side as a hinge as in b.



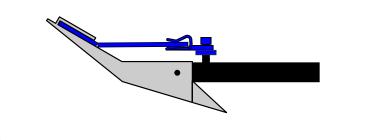
Cut only one side of Canard to make hinge

15. Insert the Canard into the slot on the front tip with the hinge cut facing down, lining it so it's centered. Put the adjustment Clip on the Canard. Screw the canard with the adjustment screw in the fuselage hole just above the base of the nose. Put a thumbtack in the slot to secure the canard.

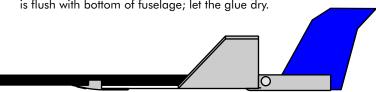
Line up the Canard so the point is in about the center of the nose.



16. Put the canard clip onto the edge of the canard and screw the bolt into its hole in the fuselage



18. Use the template to cut out the vertical stabilizer. 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.



TEMPLATE

