

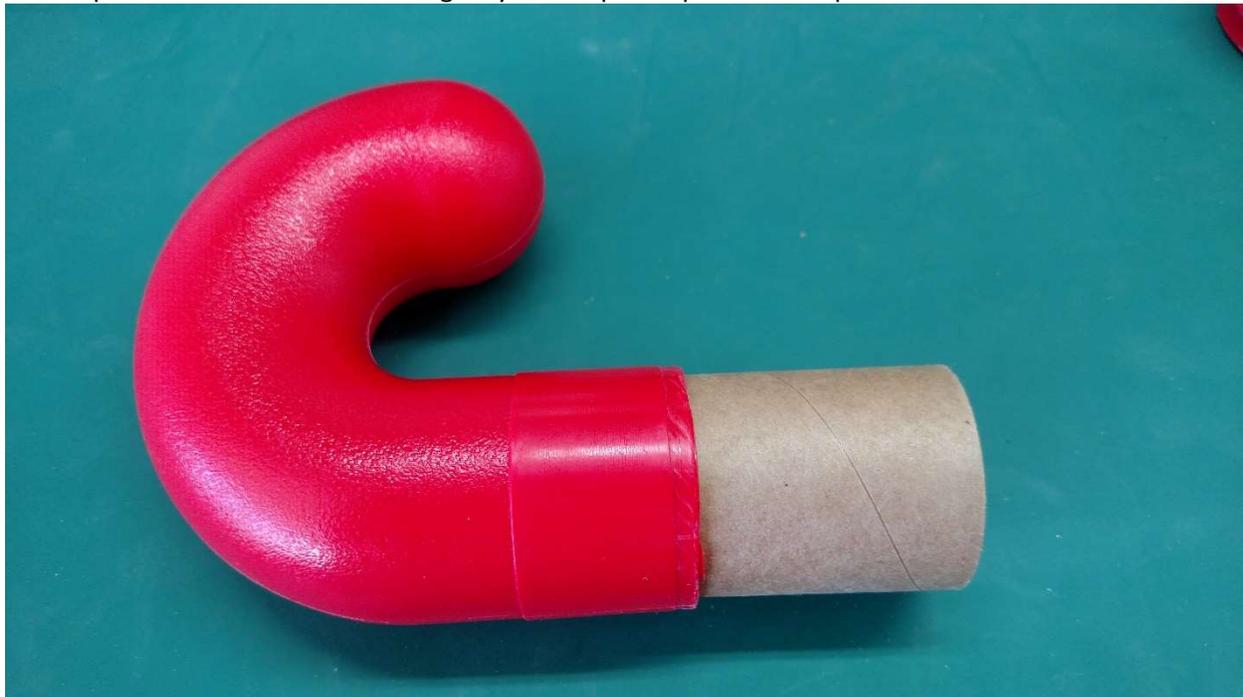
Candy Cane nosecone modification

*Color instructions are available on the web site

Take your cane cone and cut the base off as illustrated below.



Clean up as needed then test fit and glue your coupler in place to complete.



Now cut 6in of yellow shock cord and glue it into the nosecone coupler to form a loop.

Finishing your candy cane

Paint the body white and the fins green.

With a pencil place a mark at the top of the airframe and place marks down the body from that point every $1\frac{3}{4}$ in.

Take your red tape and place the bottom edge against the top mark and wind it at an angle so the bottom edge of the tape meets the next $1\frac{3}{4}$ in mark. Continue wrapping keeping a one inch spacing between each wrap so that you meet the alignment marks on each revolution.

CANDY CANE ASSEMBLY INSTRUCTIONS

- ◇ Due to the high thrust motors that can be flown in this kit, it is strongly recommended that epoxy be used throughout its entire construction.
- ◇ Before beginning construction, read over assembly instructions to become familiar with the proper construction sequence. Check rear and side exposed views (shown at bottom of instructions) carefully for fin positions and motor mount/centering ring placement inside the main airframe.
- ◇ **TEST FIT PARTS BEFORE BONDING TOGETHER WITH EPOXY!!!!**
It may be necessary to lightly sand some parts to obtain a proper fit.
- ◇ The following items will be needed for the construction & finishing of this kit:
12" ruler, Modeling knife, Pen or pencil, Masking tape, Sanding sealer, Paint brushes (assorted sizes), Sandpaper (medium & fine), Primer and paint, Epoxy (5 or 15 minute).

Main Airframe Assembly Instructions

1. Using fine sandpaper, sand the outside of the main airframe, motor mount tube for better epoxy adhesion.
2. Plywood rings are included to mount the motor tube into the airframe. One of the rings (this will be referred to as the forward ring), has a pilot hole in it. With a drill open up the hole to accept the eye bolt. Mount this ring at the top of the motor tube. Some light sanding may be required to achieve a proper fit. The forward ring will be epoxied into place 1/4in from the end. The aft centering ring will be epoxied to be flat against the end of the fin tab. Position the end of the motor tube to accommodate your motor retention. Once you are satisfied with the fit you can epoxy the rings onto the motor tube. Tie the yellow shock cord to the eye bolt and secure it with a double knot and put a SMALL drop of epoxy on the knot. Apply a bead of epoxy to secure the centering rings to the motor tube. Set aside to dry.
3. Before gluing motor section into place, test fit the parts. Insert motor tube in the airframe and test fit the fins in the slots. Ensure they align properly between the centering rings. Once satisfied with the fit, remove all test fit parts. Drape the shock cord down the motor mount to keep epoxy off it. Apply a continuous bead of epoxy around the inside of the pre-slotted airframe up from its slotted end. Take the assembled motor mount and push it straight up into the epoxied end of the airframe until the bottom end of the motor mount tube is in position. Set in upright position to dry. When dry, turn assembly upside down and give exposed bottom centering ring a light layer of epoxy for additional strength. Set aside to dry.
4. Sand all fins smooth and round off the leading and trailing edges of them using medium, then fine sandpaper.
5. Test fit the fin tabs (which protrude out from the fin's root edge) into the airframe's fin slots. Sand the tab edge that will mate to the motor mount tube if necessary to obtain a good flush fit.
6. Once all parts fit to your liking, apply a liberal amount of epoxy to the fin tab area and along the edge mating with the airframe and position fin perpendicular to the airframe – set aside to cure. Keep the airframe in a horizontal position while the epoxy sets up. Make sure that the fin is straight up from the airframe tube and against the slot's bottom edge. Repeat with each of the remaining fins.
7. Mount the rail buttons. One at the aft of the airframe and one 6in up from it.
8. Give all fin joints ADDED epoxy fillets for MAXIMUM strength.

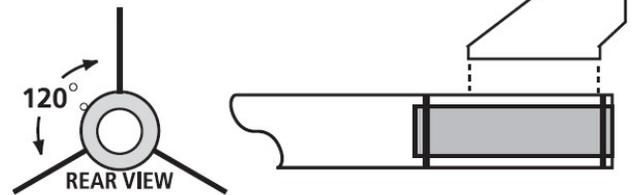
Main Airframe Assembly Instructions, Continued

9. Seal fins with sanding sealer using a brush. Sand lightly between coats to fill pores and obtain a smooth finish.
10. When you are satisfied with the smooth sanded finish of your model, it is ready to prime and then paint in the color or colors of your choice.
11. Put end of yellow shock cord through slit cut in the Nomex Chute Protector and slide through. Then take one end of the shock cord and tie it to the yellow shock cord. Secure it with a double knot. Take the other end of the shock cord and pass it through the loop of the nosecone and also secure it with a double knot. Place a SMALL drop of epoxy on both knots to keep them permanently secured.
12. Select a motor for first flight. Because of all the different motor combinations available (with varying motor lengths), this kit uses no motor blocks. Instead, wrap 1/2" wide masking tape around the nozzle end of each motor to a diameter equal to that of the motor mount tube. This will keep the motor from pushing forward upon ignition. Friction fit the motor in place by wrapping masking tape around the motor in two places for a snug fit in the motor mount tube. This will prevent the motor from ejecting rearward upon activation of the ejection charge.
13. Always follow motor manufacturer guidelines and rules!

Recovery

1. The Nomex Chute Protector will be the first item packed into the booster and will protect recovery items from ejection gasses and flames.
2. Attach parachute to the shock cord approximately 1/3 from the nose cone. To do this, take the chute shroud line loops in one hand and, with the other hand, take the chute and go around the shock cord, passing the chute through the shroud line loops. When the chute is pulled through tightly it will form a knot.

CROSS SECTION OF CENTERING RINGS/ MOTOR MOUNT TUBE ASSEMBLY IN MAIN AIRFRAME.



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