

MODEL ROCKETS.US

CEE-YAH

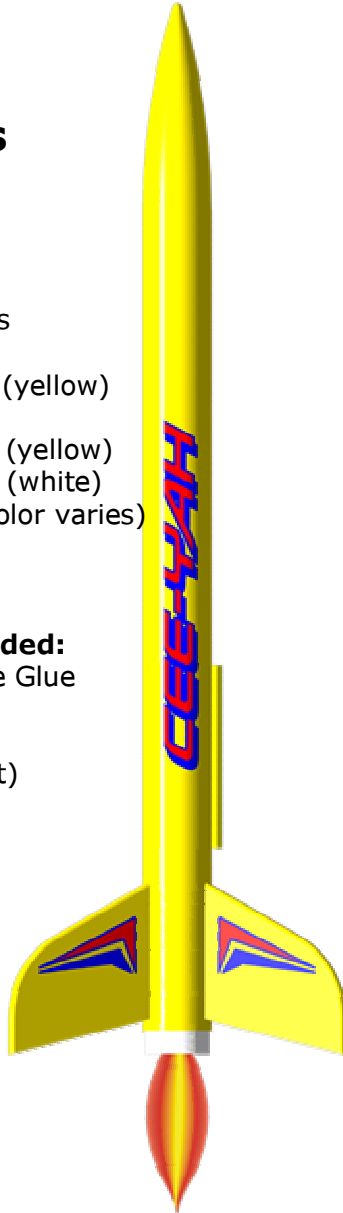
Assembly Instructions

Parts Included:

- 1 Nose Cone
- 1 Body Tube
- 3 Laser Cut Balsa Fins
- 1 Thrust Ring
- 1 Motor Spacer Tube (yellow)
- 1 Launch Lug
- 1 Kevlar Shock Cord (yellow)
- 1 Elastic Shock Cord (white)
- 1 Plastic Streamer (color varies)
- 2 Tape Discs
- 1 Decal Sheet

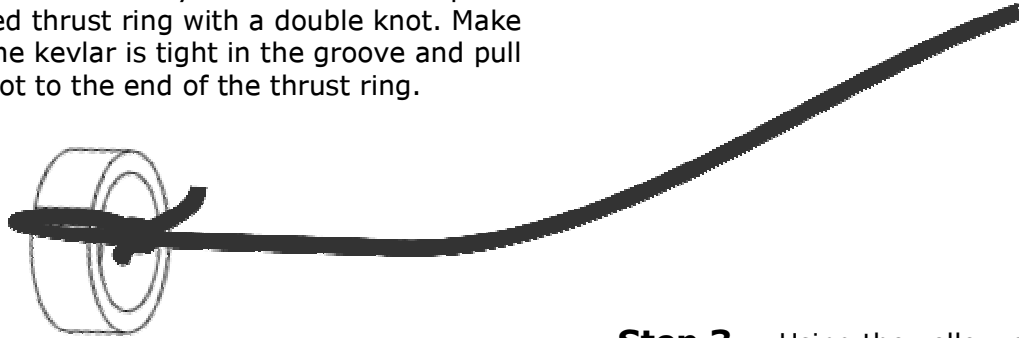
Materials Not Included:

- Yellow Wood or White Glue
- Sanding Sealer
- Paint Brush
- Sandpaper (#240 grit)
- Gloss Spray Enamel
- Primer Spray Enamel
- Masking Tape



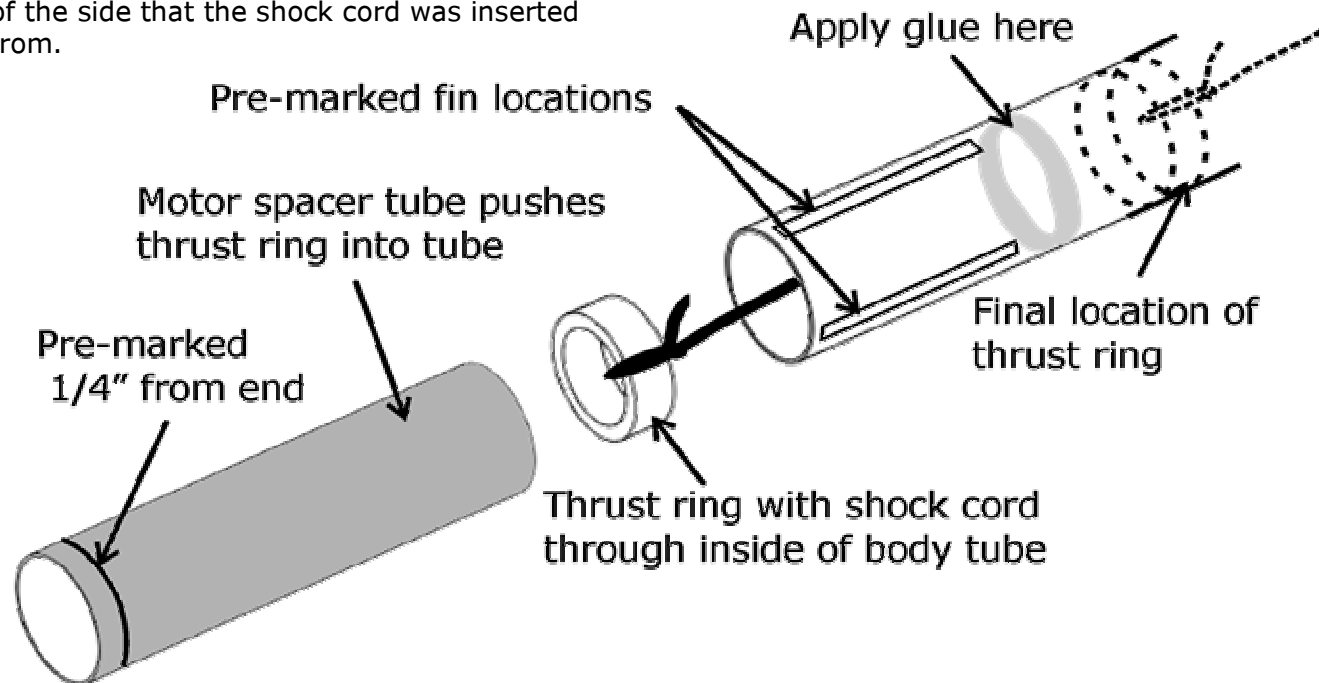
Motor Mount and Shock Cord Assembly

Step 1 – Tie the yellow kevlar to the pre-grooved thrust ring with a double knot. Make sure the kevlar is tight in the groove and pull the knot to the end of the thrust ring.



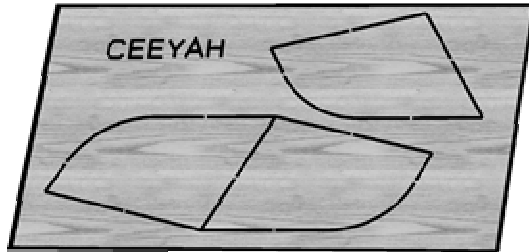
Step 2 – Thread the end of the yellow kevlar shock cord through the pre-marked fin end of the body tube. Using a Q-tip or the tip of your small finger, spread glue around the inside of the body tube about 2" from the end of the side that the shock cord was inserted from.

Step 3 – Using the yellow motor spacer tube with the marked end outside, push the thrust ring and yellow kevlar thread into the tube until the motor spacer tube sticks out at the 1/4" mark from the end of the body tube. Remove the motor spacer tube immediately and set the body tube aside to dry for a few minutes.

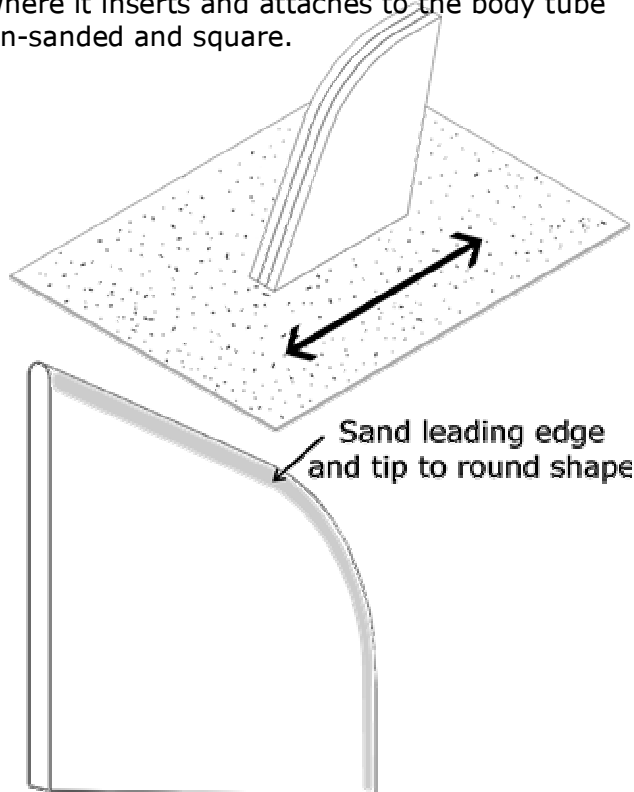


Preparing and Attaching the Fins

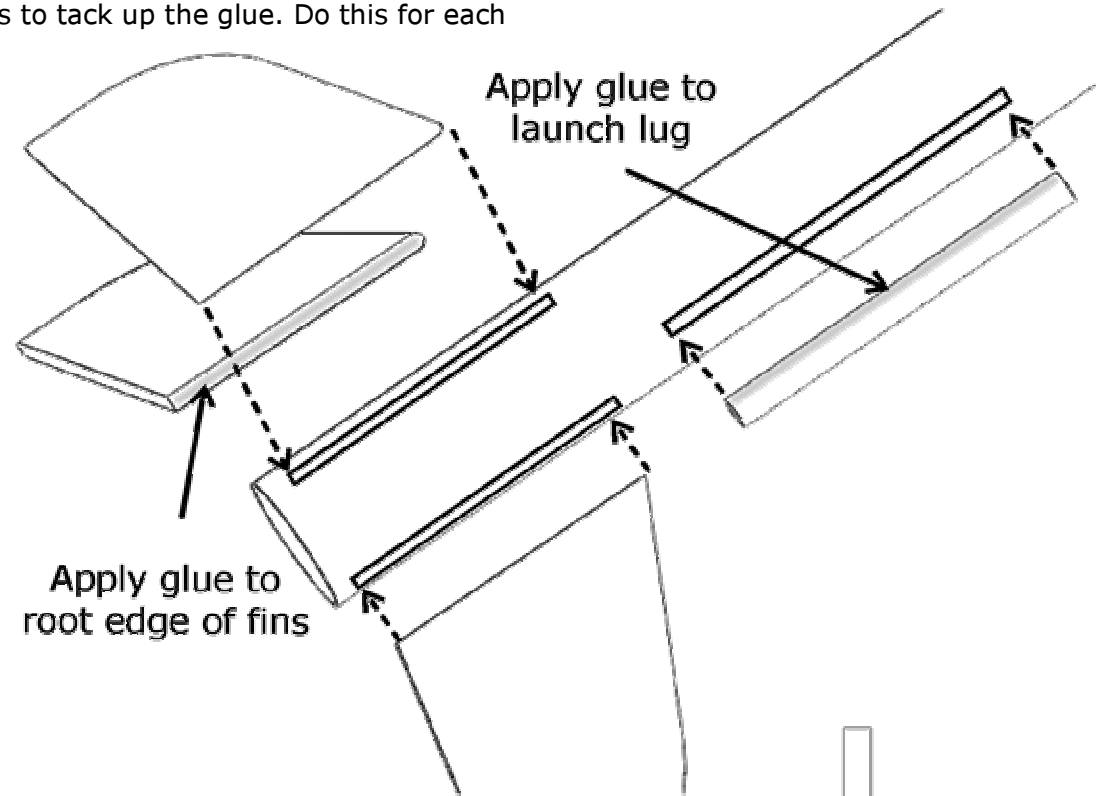
Step 1 – Press out the balsa fins from the laser cut sheet. Stack together and sand lightly on a piece of sandpaper laid flat on a table surface to square the root edges where the fins will attach to the body tube.



Step 2 – Sand the leading edge and the tip of each fin round. Leave the root of the fin where it inserts and attaches to the body tube un-sanded and square.

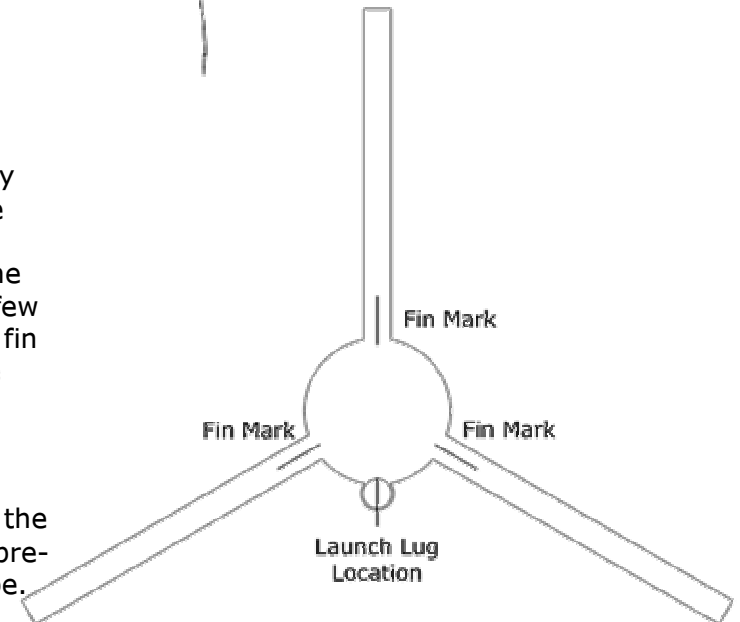


Step 3 – Apply glue to the root edge on each fin and place on the pre-marked locations on the body tube. Immediately remove each fin and set aside a couple of minutes to tack up the glue. Do this for each fin.

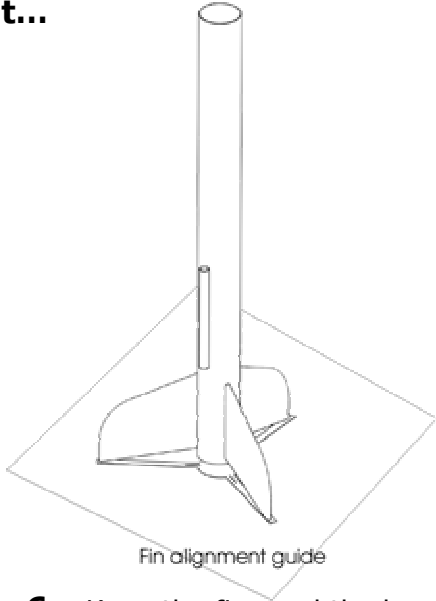


Step 4 – After the glue has tacked, apply another thin bead of glue to the root of the each fin, then re-attach and hold the fin in place on the pre-marked fin locations on the body tube. Do the same for all fins with a few minutes drying time between fins. Use the fin alignment guide on this page to make sure the fins are aligned while drying.

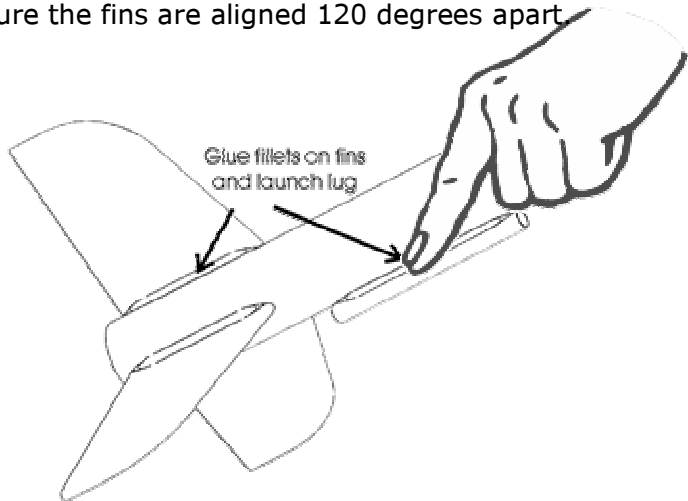
Step 5 - Apply a thin bead of glue along the length of the launch lug and attach to the pre-marked launch lug location of the body tube.



Preparing and Attaching the Fins Cont...



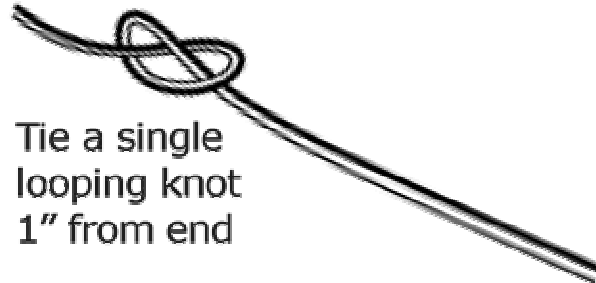
Step 6 - Keep the fins and the launch lug aligned on the lines while drying. Use the fin marking guide on the previous page to make sure the fins are aligned 120 degrees apart



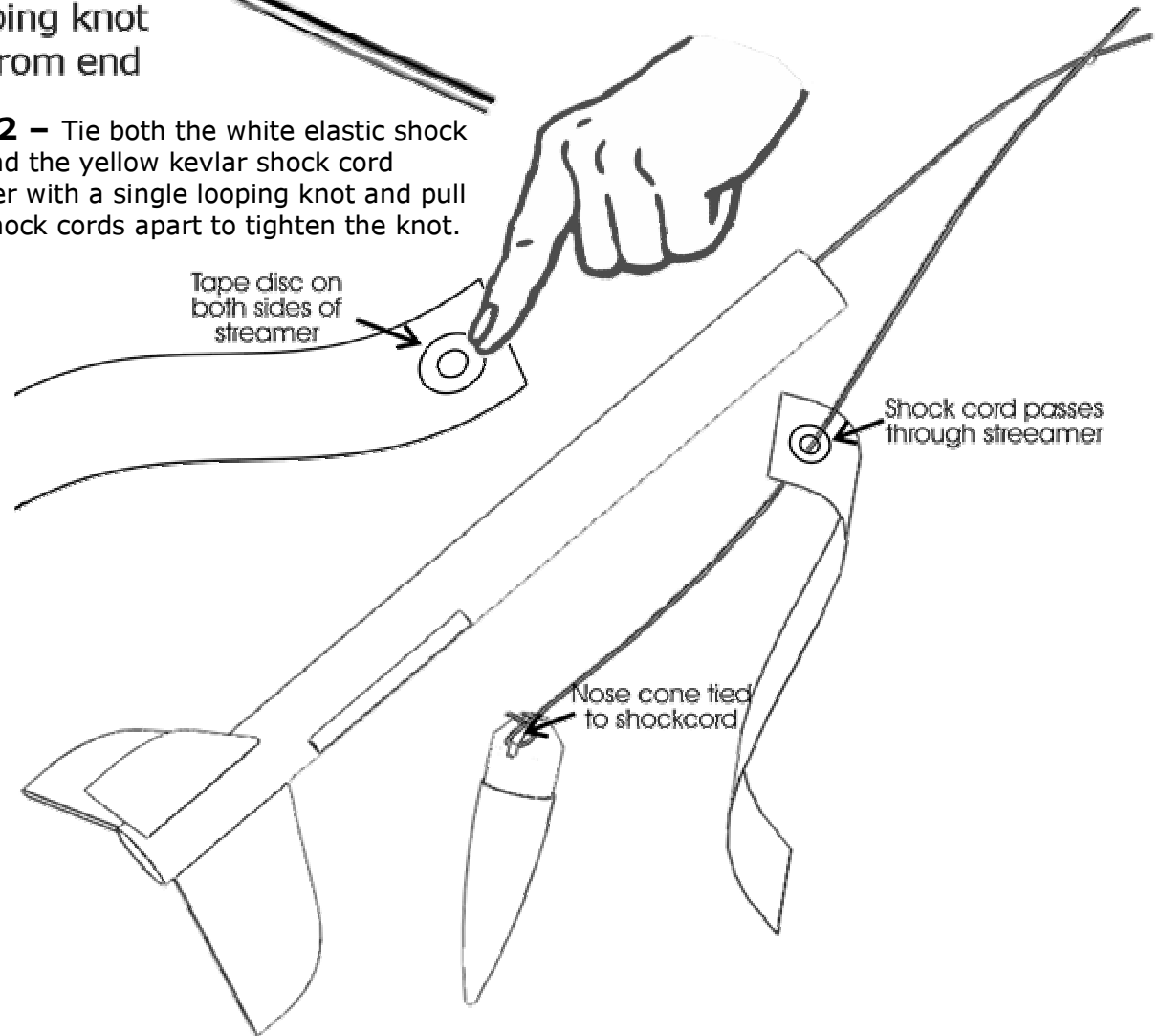
Step 7 - After the fins and launch lug have dried, apply a thin layer of glue between the body tube and the fins, and the body tube and launch lug with your finger to create a fillet that will strengthen the fins and launch lugs. Set aside to dry. Check the fin alignment to make sure they are 120 degrees apart while drying. Use the fin marking guide to check alignment.

Attaching the Streamer and Nose Cone

Step 1 - If it is not already, feed the yellow kevlar shock cord through the bottom of the body tube and pull out through the top.



Step 2 - Tie both the white elastic shock cord and the yellow kevlar shock cord together with a single looping knot and pull both shock cords apart to tighten the knot.

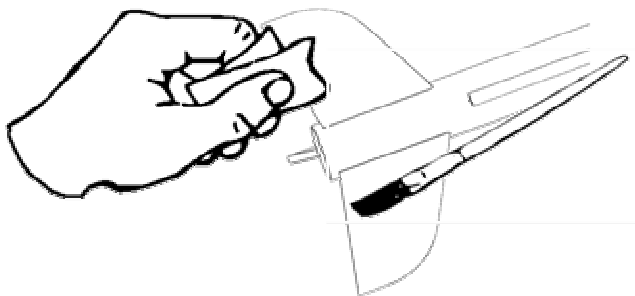


Step 3 - Remove the 2 tape discs from the backing sheet and press firmly onto the streamer on both sides over the hole that is already punched in the end of the streamer.

Step 4 - Pass the white elastic shock cord through the hole and tape discs on the streamer and then tie the nose cone to the end of the white elastic shock cord with a double knot.

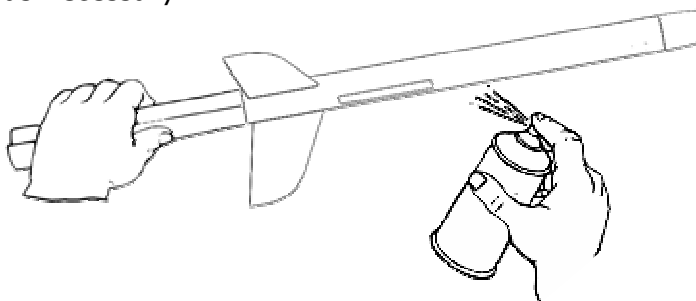
Finishing Your Rocket (optional)

Step 1 – Using 240 grit sandpaper, sand the fins of the rocket lightly to remove loose grain and sand the nose cone so that the paint will stick.



Step 2 – Apply sanding sealer to the fins and let dry. Sand the fins with 240 grit sandpaper between coats of sanding sealer. Re-do this process until the fins are smooth and the balsa grain is filled.

Step 3 – Roll up a sheet of paper and insert into the bottom of the rocket body tube to hold your rocket, apply a thin coat of flat white or gray primer spray enamel to the whole rocket using even back and forth movements. Let the primer dry and sand using 240 grit sandpaper. Re-coat and sand as necessary.



Step 4 – Apply a first thin color coat of gloss yellow spray enamel to the whole rocket using even back and forth movements. Let the first coat tack up for a few minutes. Then follow up with a heavier coat. Do not coat too heavily or the paint will sag. The best results

are obtained when the color coat is just thick enough to gloss. If additional coats are needed to cover the primer with full color, re-apply after the color coat has tacked up within the first hour or wait 24 hours until the color coat is completely dry.

Step 5 – Remove the pressure sensitive decals from the backing paper and apply to the fins and body tube. Use the picture on the cover of this manual for a guide to decal placement.

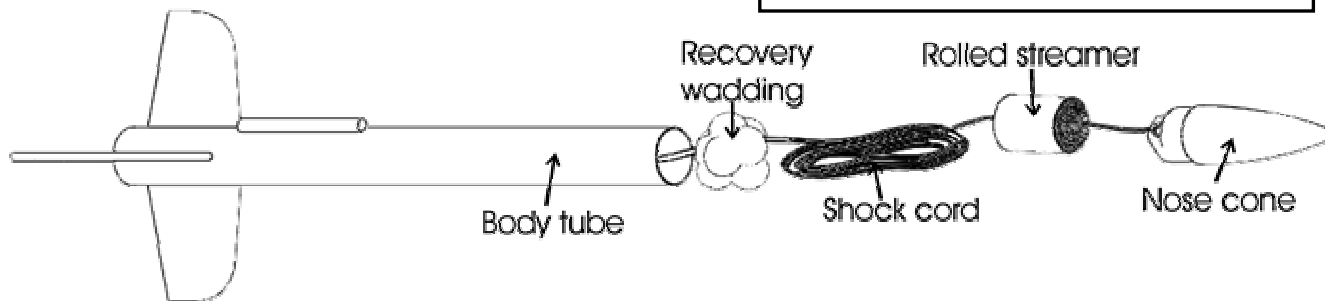
Flying Your Rocket

Flight checklist:

- Model Rocket
- Launch Pad & Controller w/Batteries
- Recovery Wadding
- Model Rocket Motors and Igniters

Recommended Motors for the CEE-YAH rocket are 1/2A6-2, A8-3, A6-4, B4-4, B6-4, C6-5 & C6-7

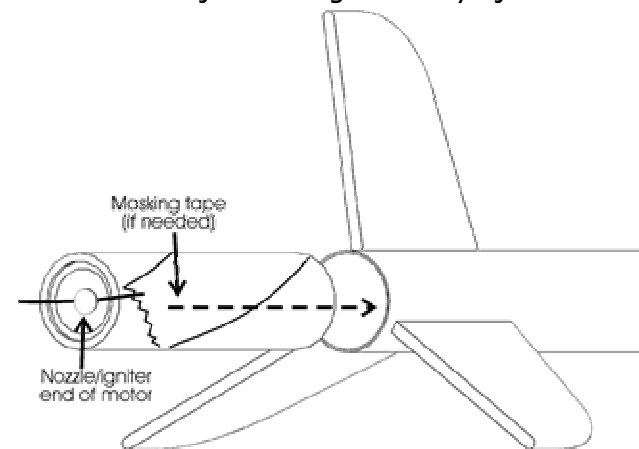
Step 1 – Insert 2 crumpled recovery wadding sheets into the body tube and the folded shock cord after the recovery wadding.



Step 2 – Fold the streamer 3 times and roll up small enough to fit into the rocket body tube and insert into the rocket body tube, then insert the nose cone to complete the recovery assembly.

Step 3 – Install model rocket motor igniter according manufacturers recommended procedure.

Step 4 – Insert the rocket motor with the nozzle/igniter end facing the rear of the rocket. If the rocket motor is loose, add masking tape to the outside of the rocket motor until the motor inserts with enough friction to retain the motor during flight. It should not eject during recovery ejection.



IMPORTANT: FOLLOW THE N.A.R. SAFETY CODE REGARDING LAUNCHING AND THE USE OF MODEL ROCKET MOTORS