

MODEL ROCKETS.US Boost'oh

Assembly Instructions



Parts Included:

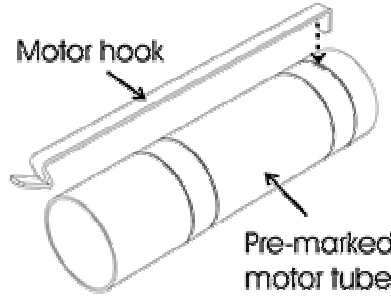
- 1 Stage Tube
- 6 Fin Tubes
- 1 Coupler
- 1 Thrust Ring
- 1 Motor Tube
- 1 Launch Lug
- 1 Motor Hook
- 2 Centering Rings
- 1 Decal Sheet

Materials Needed for Assembly:

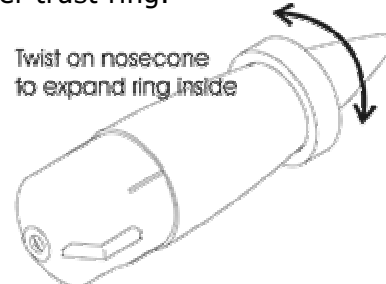
- Yellow Wood or White Glue
- Sanding Sealer
- Paint Brush
- Sandpaper (#240 grit)
- Gloss Spray Paint
- Primer Spray Paint
- Masking Tape

Motor Mount Assembly

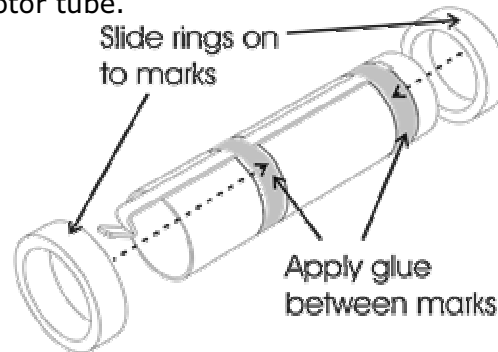
Step 1 – Insert the flat end of the metal motor hook into the pre-cut slot $\frac{1}{4}$ " from the end of the motor tube.



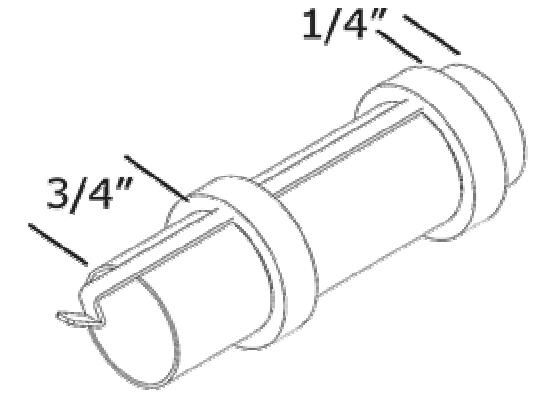
Step 2 – Slightly expand the inside of the 2 larger centering rings by twisting on the end of the nose cone. **Important:** Don't expand the smaller trust ring.



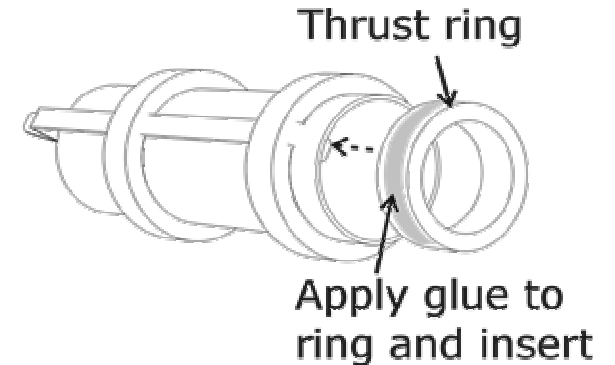
Step 3 – While holding the motor hook in the slot, apply glue around the motor tube between the marks. Push the expanded end of the centering rings over the motor hook until the rings are between the marks on the motor tube.



The rings should be positioned as shown

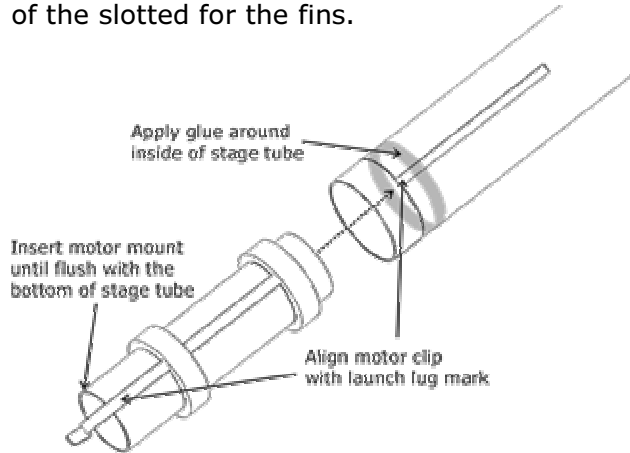


Step 5 – Apply glue around the outside of the thrust ring and insert into the motor tube at the end where the motor hook is inserted. Push in until against the motor hook and flush with the end of the motor tube.

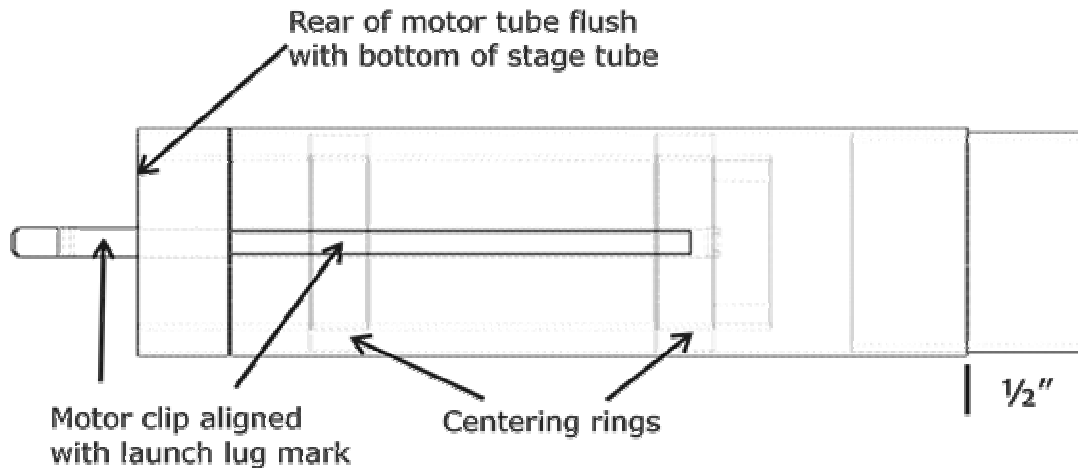


Inserting and Attaching the Motor Mount

Step 1 – Refer to the drawing below to locate the bottom of the stage tube by the 1 1/8" fin slot distance. Using a Q-tip or your little finger apply glue liberally around the inside end of the stage tube 1/2" in at the end of the slotted for the fins.



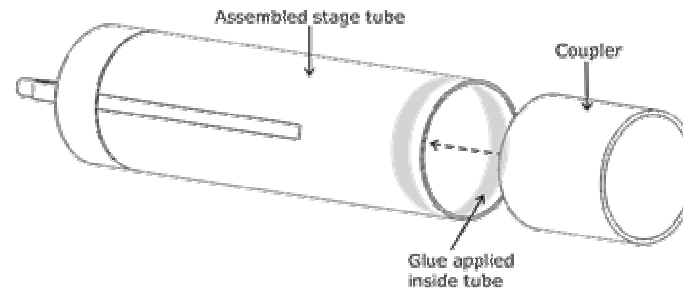
Important: Do the following motor mount insertion in one move. Do not stop until the motor mount is in the correct position.



Step 2 – Insert the motor mount and push in until the bottom of the motor tube is flush with the bottom on the stage tube. Both rings should be clear of the fin slots. Set aside to dry.

Attaching the Staging Coupler

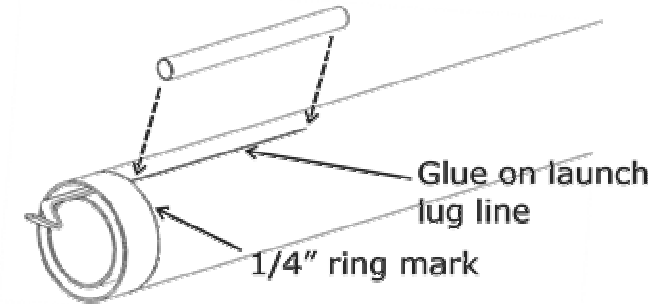
Step 1 – Using a Q-tip or your little finger apply glue liberally around the inside end of the stage tube at the end opposite the motor hook.



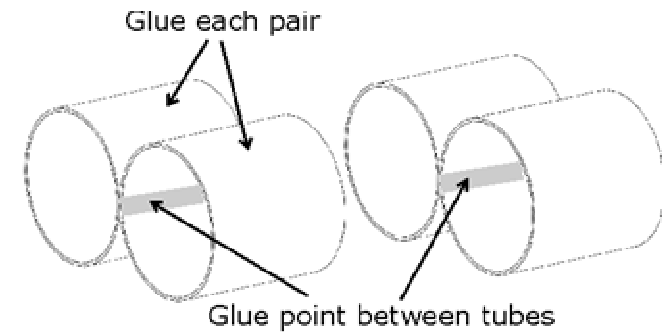
Step 2 – Insert the coupler and push in until the end of the coupler is 1/2" from the end of the stage tube. Wipe off any glue on the coupler with a dry paper towel.

Attaching the Launch Lug and Fins

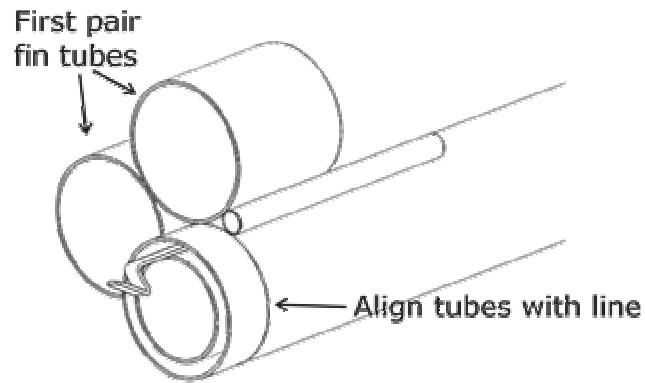
Step 1 – Apply a thin line of glue to the launch lug and attach where marked on the stage tube and set aside to dry for a few minutes.



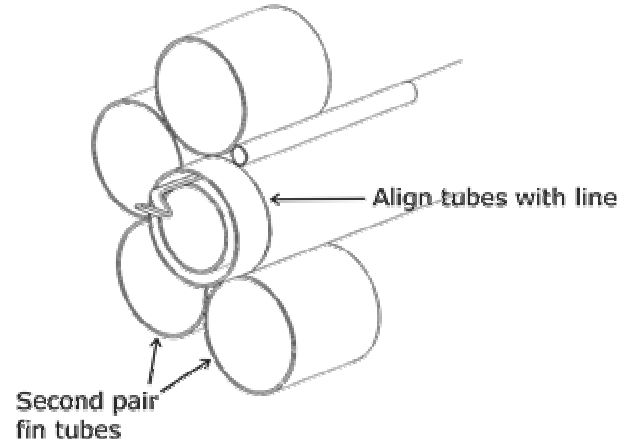
Step 2 – Apply a thin line of glue to the outside of one of the fin tubes along the length. Attach 2 fin tubes together and set aside to dry for a few minutes on a flat surface to keep them aligned parallel to each other. Do this for 3 pairs of fin tubes.



Step 3 – Apply glue in a thin line along the length of the first fin tube pair in 2 places and the launch lug. Refer to the fin tube layout guide on this page for glue locations between the stage tube, fin tubes, and the launch lug. Attach the first fin tube pair to stage tube and launch lug while aligning with the line around the tube as shown.

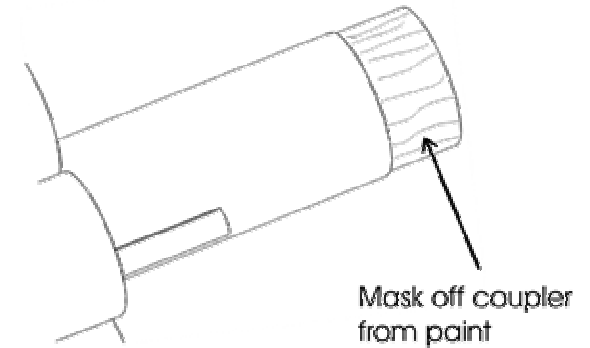


Step 4 – Apply glue in a thin line along the length of the second fin tube pair in 3 places. Refer to the fin tube layout guide on this page for glue locations between the stage tube and the fin tubes. Attach second fin tube pair to the stage tube and first fin tube pair while aligning with the line around the tube as shown.

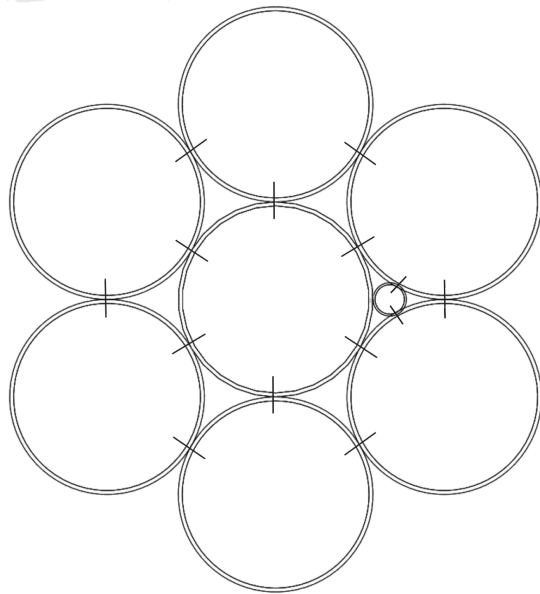


Finishing Your Rocket (Optional)

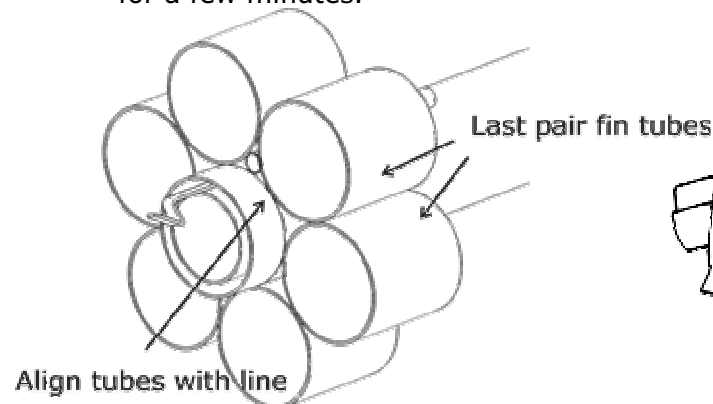
Step 1 – Using masking tape, mask off the coupler so that spray paint is not applied during priming and finish coat.



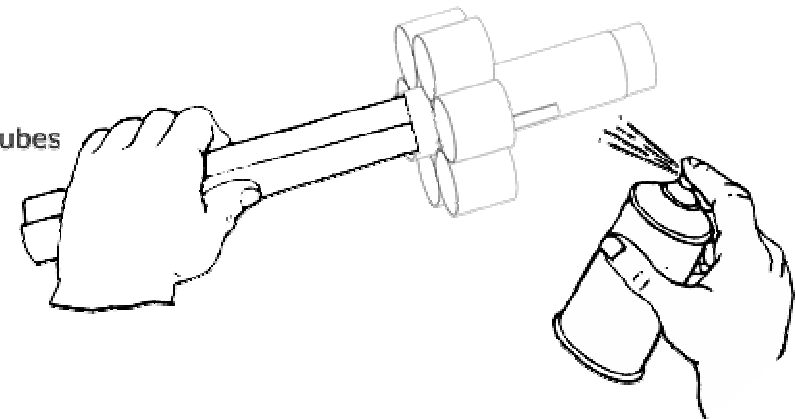
Fin Tube Layout Guide



Step 5 – Apply glue in a thin line along the length of the last fin tube pair in 2 places and the launch lug. Refer to the fin tube layout guide on this page for glue locations between the stage tube, fin tubes, and the launch lug. Attach the last fin tube pair to the stage tube, second tube pair, and launch lug while aligning with the line around the tube as shown. Set aside the whole assembly to dry for a few minutes.



Step 2 – Roll up a sheet of paper and insert into the bottom of the stage tube to hold your rocket booster, apply a thin coat of flat white or gray primer spray enamel to the whole rocket booster, using even back and forth movements. Let the primer dry and sand using #240 grit sandpaper. Re-coat and sand as necessary.



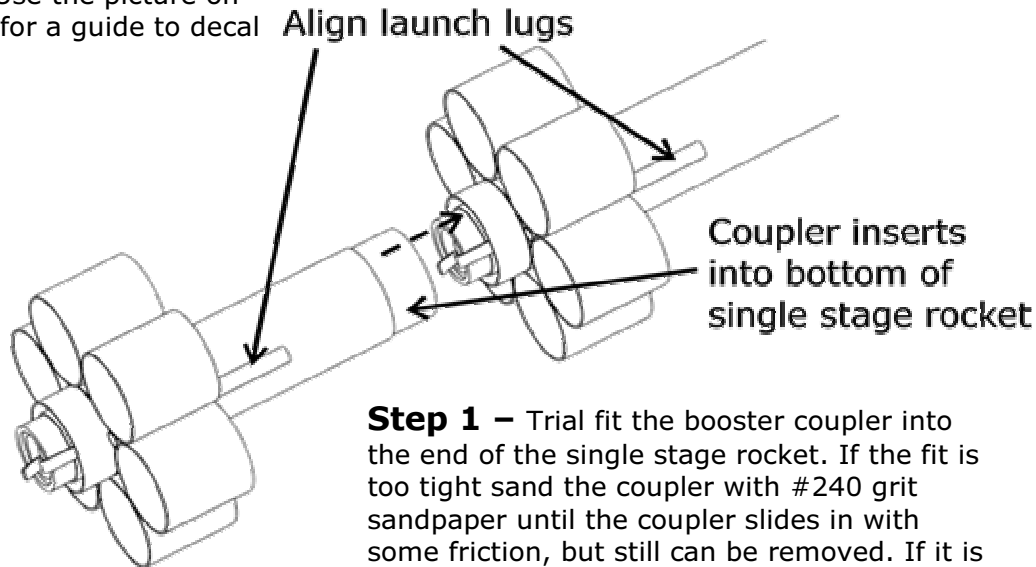
Finishing your rocket cont...

Step 3 – Apply a first thin color coat of gloss spray enamel to the whole rocket booster 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. Let the final coat dry for 24 hours.

Step 4 – Remove the masking tape from the coupler.

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



Flying Your Rocket Booster

The Boost'oh is designed to be a booster stage for any of the ModelRockets.us single stage rockets that use a .99" diameter body tube

Flight checklist:

- Boost'oh Rocket Booster
- Single Stage Model Rocket
- Launch Pad & Controller w/Batteries
- Recovery Wadding
- Model Rocket Motors and Igniters

Recommended Motors:
Boost'oh B6-0 & C6-0.
Centauri A6-4, A8-5, B6-4, B6-6, C6-5, C6-7.
Sword A6-4, A8-3, B6-4, C6-5.

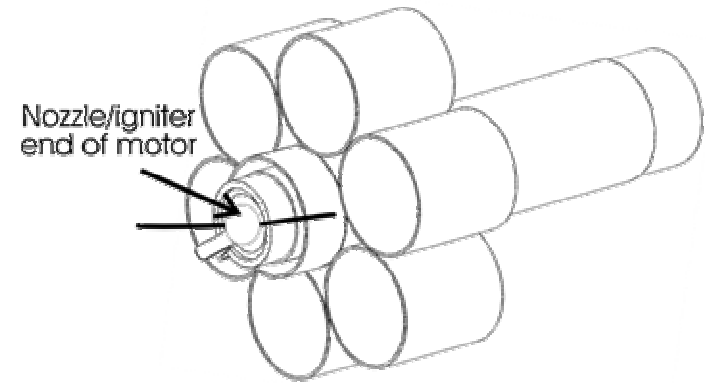
Step 1 – Trial fit the booster coupler into the end of the single stage rocket. If the fit is too tight sand the coupler with #240 grit sandpaper until the coupler slides in with some friction, but still can be removed. If it is too loose, add some masking tape to create a friction fit.

Step 2 – Prepare your single stage rocket according to the instructions supplied with your single stage rocket kit.

Important: Insert the single stage motor without the igniter. The igniter will be installed in the booster stage instead.

Step 3 – Insert the booster stage rocket motor with the nozzle/igniter end facing the rear of the rocket. The motor should clip into place with the motor hook retaining the motor.

Step 4 – Install model rocket motor igniter into the booster rocket motor according to manufacturers recommended procedure.



Step 5 – Insert the Boost'oh rocket booster all the way into the single stage rocket. Align the launch lugs of the booster stage and the single stage rocket by twisting the booster stage in the single stage rocket.

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