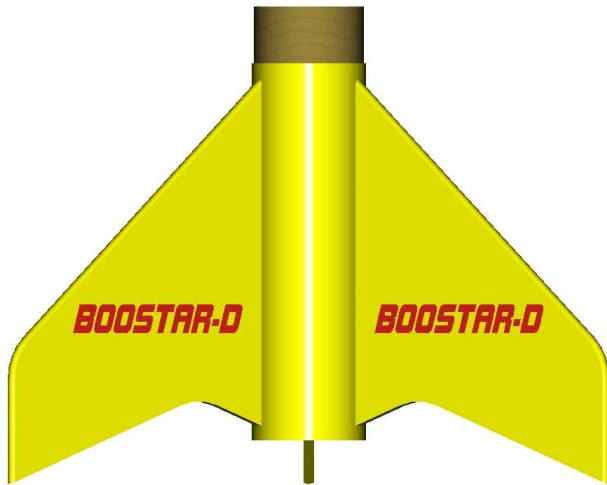


MODEL ROCKETS.US BOOSTAR-D

Assembly Instructions



Parts Included:

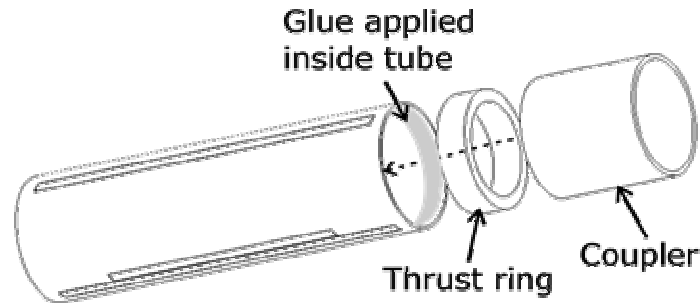
- 1 Stage Tube
- 3 Laser Cut Balsa Fins
- 1 Thrust Ring
- 1 Launch Lug
- 1 Decal Sheet

Materials (not Included):

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

Inserting Thrust Ring and Staging Coupler

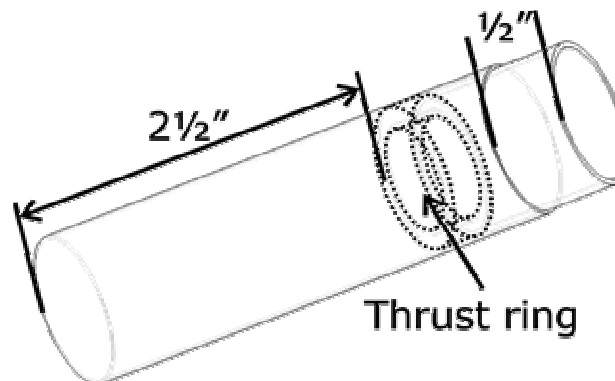
Step 1 – Using a Q-tip or your little finger apply glue liberally around the inside end of the stage tube at the end of the tube.



Step 2 – Insert the thrust ring first, then using the coupler, push the coupler in until the end of the coupler is $\frac{1}{2}$ " from the top of stage tube and the thrust ring is $2\frac{1}{2}$ " from the bottom of the stage tube.

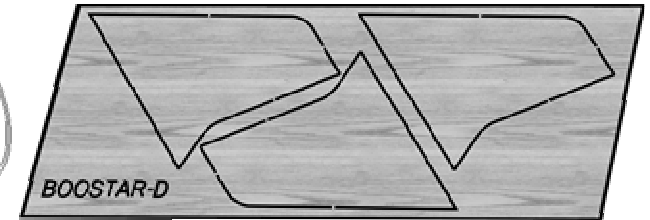
The coupler will be glued in as well. If the coupler is loose, remove the coupler and leave the thrust ring in place. Then re-apply a little more glue and push the coupler in until it touches the top of the thrust ring. Wipe off any excess glue on the outside of the coupler with a dry paper towel.

Set aside to dry with the coupler facing down.

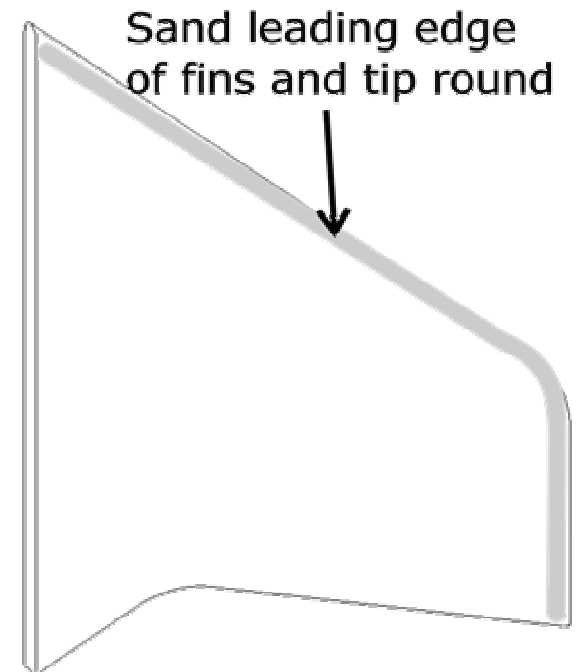


Preparing and Attaching the Fins

Step 1 – Press or break out the balsa fins from the laser cut sheet.

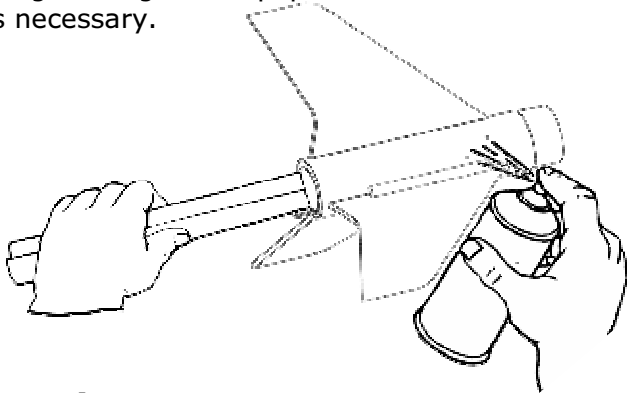


Step 2 – Sand the leading edge and the tip of each fin round. Leave the root of the fin where it inserts and attaches to the body tube square.



Finishing your rocket cont...

Step 3 – 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.



Step 4 – 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 5 – Remove the masking tape from the coupler.

Step 6 – 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 Booster

The Booster-D is designed to be a booster stage for any of the ModelRockets.us single or two stage rockets that use a .99" diameter body tube. This includes the following rockets:

Centauri Rocket Sword Payload Rocket

Flight checklist:

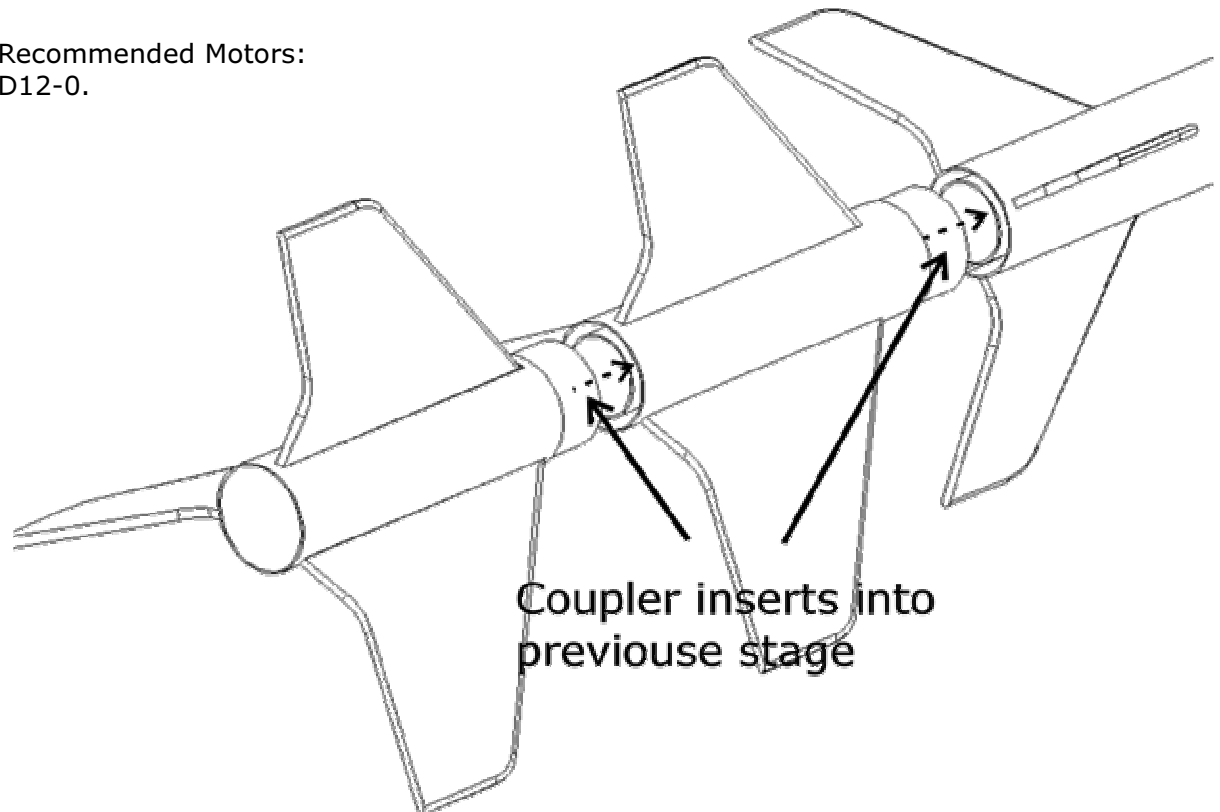
- Booster-D Rocket Booster
- Single or Two Stage Model Rocket
- Launch Pad & Controller w/Batteries
- Recovery Wadding
- Model Rocket Motors and Igniters

Recommended Motors:
D12-0.

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.

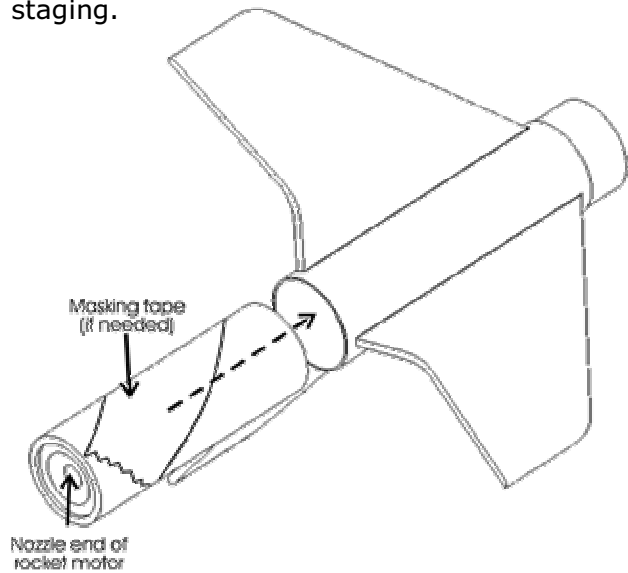
Step 2 – Prepare your single or two stage rocket according to the instructions supplied with your single or two stage rocket kit.

Important: Insert the single or two stage motors without the igniters. The igniter will be installed in the final booster stage instead.

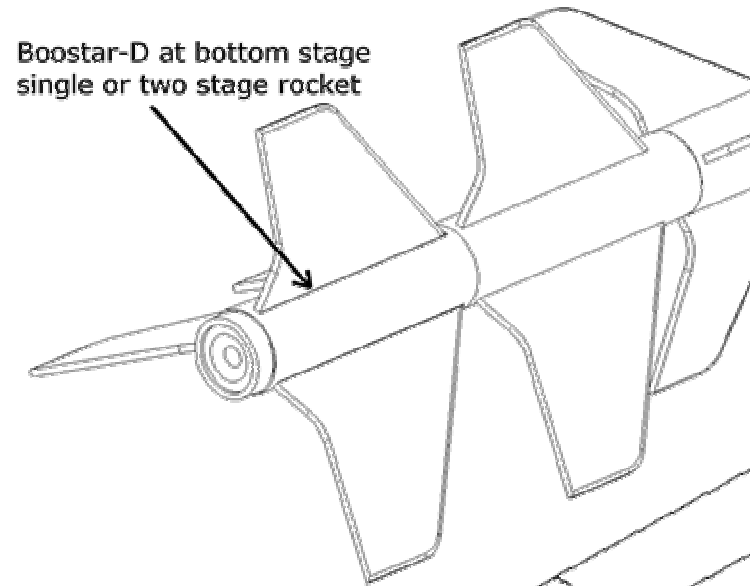


Flying your rocket booster cont...

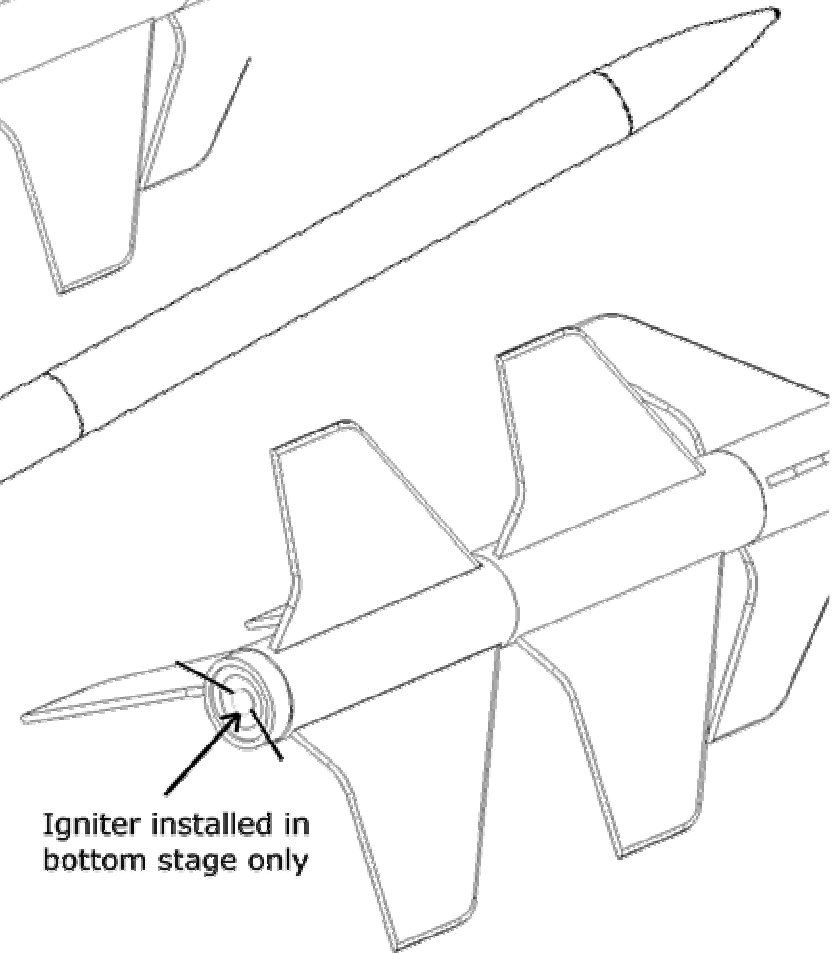
Step 3 – Insert the rocket motor into the Boostar-D rocket booster until it is against the thrust ring. If necessary use masking tape on the outside of the rocket motor to create a friction fit. If the motor is too loose it will eject the motor but not the stage during staging.



Step 4 – Insert the Boostar-D into the bottom of a single or two stage rocket. Line up the launch lug of the bottom stage with the launch lug of the upper stage.



Step 5 – Install model rocket motor igniter into the booster rocket motor according to manufacturers recommended procedure.



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