

Parts List

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|-----|-----------------------|--------------|
| 1 x | Maxtermind Decal | 1038-22 |
| 1 x | 15" Plastic Parachute | 91115 |
| 1 x | Red Vinyl Band | 1038-51 |
| 4 x | 1/8" large balsa fins | 1038-31 |
| 4 x | 1/8" small balsa fins | 1038-32 |
| 1 x | BT60 White Tube 18" | 24060 |
| 1 x | BT60 White Tube 6" | 24060-060 |
| 1 x | BT60 Coupler | 23601 |
| 1 x | BT60 Nose Cone | 28161 |
| 1 x | Wood Stick | 9233231636-4 |

Small Parts Bag

| | | |
|-----|------------------------|----------|
| 1 x | 1/4" Rubber Shock Cord | 45004-28 |
| 2 x | 3/16" Launch Lugs | 70119 |

24 mm Motor Parts Bag (76024)

| | | |
|-----|---------------------------------|--------|
| 1 x | BT50 Motor Tube (L) | 25501 |
| 1 x | BT50 Yellow Spacer | 25207 |
| 1 x | Centering Ring with Large Notch | 236051 |
| 1 x | Centering Ring with Small Notch | 236052 |
| 1 x | Green Motor Block | 22502 |
| 1 x | Standard Clip (L) | 70219 |
| 1 x | 24mm Clip Locking Ring | 29224 |



Please read all instructions before assembling any parts of this rocket kit. For each step, dry-fit pieces before gluing them together, to fully understand the assembly process.

Use wood glue to assembly this rocket.

If any parts are damaged or missing, or you need help understanding the assembly process please email us at: support@rocketarium.com

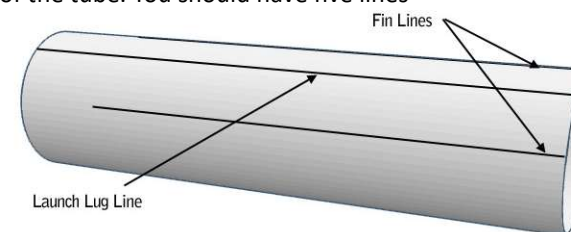
1. Motor Mount Assembly

Find the bag containing the Motor Mount Parts (76024) and follow instructions inside to assemble the motor mount.

2. Marking the Airframe

Cut out the fin marking guide located on page 3. Wrap the guide around the aft end of the longest white tube and place a mark at the arrow heads above and below the guide. Mark this end of the tube as "aft".

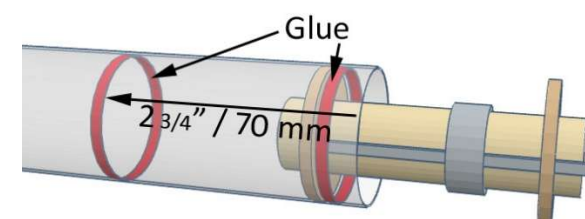
Remove the guide and use the straight edge (such as aluminum angle or door frame) to draw lines along the length of the tube on the marks for fin locations. All lines should run up the full length of the tube. You should have five lines



3. Motor Mount Installation

Dry fit the motor assembly into the aft end of tube you have just marked. If the motor assembly does not fit, sand the outside edges of the centering rings.

Remove the motor assembly. Using included wood stick, place a line of glue 2 3/4" (70mm) into the tube. Insert the motor assembly partway into the aft end. Place another line of glue 1/8" (3mm) into the aft of the tube. Finish inserting the motor mount until the aft end of the motor tube is flush with the aft end of the tube.

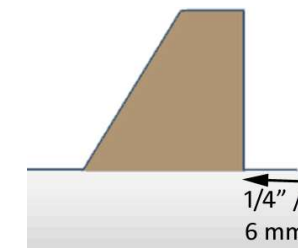


4. Fin Attachment

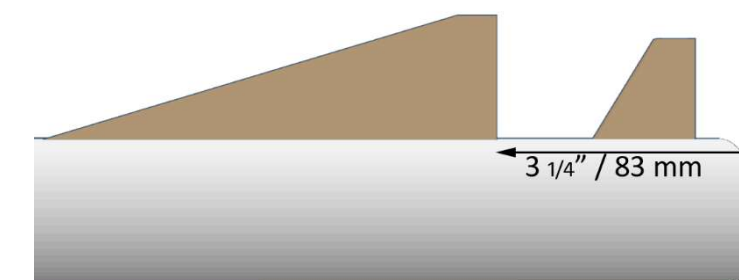
Stack fins together and sand edges lightly to remove any remaining imperfections. The leading edge of each fin should be rounded. Using sandpaper round the leading edge of each fin.

Mark the fin lines 1/4" (6mm) and 3 1/4" (83mm) from the aft end of the longest white tube.

Place the small and large fins on these lines, respectively. Mark the position of the fin on the tube with the pencil. Repeat for the remaining fins. Lightly sand the surface under each fin to remove the glassine layer.



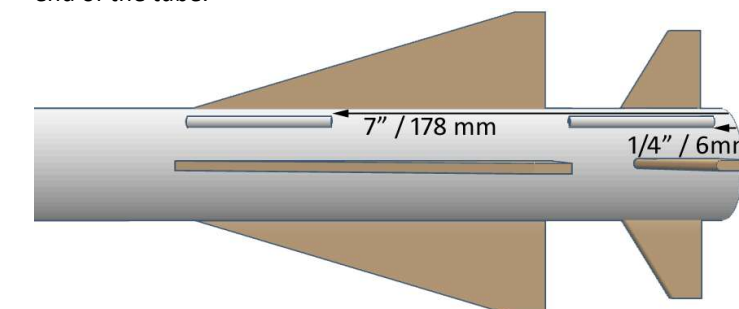
Glue the small and large fins on the marks. Once a fin is attached, smooth out the glue with your finger and allow the glue to dry fully before attaching the next fin. Glue remaining fins in place.



Another bead of glue can be added to create larger glue fillets

5. Launch Lugs

Mark the launch lug line 1/4" (6mm) and 7" (178mm) from the aft end of the tube.



Position the launch lugs at these marks. Mark the position of the lugs on the tube with the pencil. Remove the lugs and lightly sand the tube surface under both lugs to remove the glassine layer.

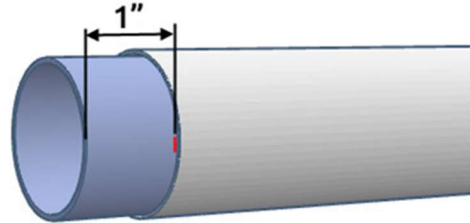
Glue the launch lugs in place. Make sure that they are aligned. Allow the glue to dry.



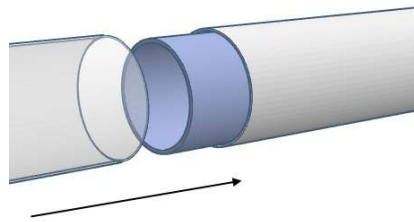
6. Joining Tubes

Find the blue coupler. Mark the middle of the coupler at 1" (25mm) from any end.

Place a ring of glue on the inside of the forward end of the 18" (457mm) tube and fins assembly. With a twisting motion insert the coupler, until the mark meets the tube. Let glue dry.



Place a ring of glue on the inside of the any end of the 6" (152mm) tube.



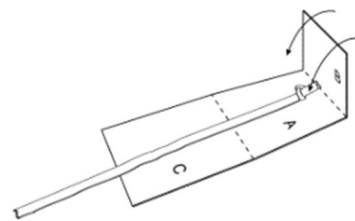
With a twisting motion slide this tube onto the sticking end of the coupler to glue the tubes together. Make sure tubes are straight. Let glue dry.

7. Shock Cord Attachment

Cut out the shock cord mount located on page 3 with a sharp hobby knife or a pair of scissors. Cut only on the solid black lines. Do not cut the dashed lines.

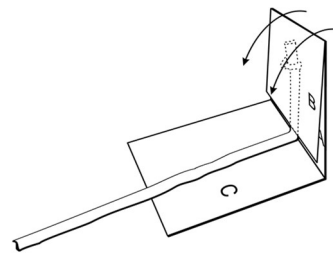
Tie a knot in the end of the shock cord.

Apply a generous amount of glue to panel A of the shock cord mount and lay the knot on top of it.



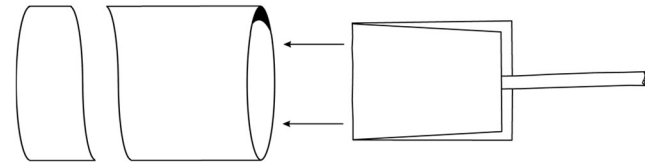
Fold panel B on the dashed line, onto the knot and the panel marked 'A'. Hold closed until the glue grabs.

Spread more glue to panel C. Fold panel B on the dashed line and down on the panel with the glue on it.



Hold this assembly between your fingers and gently apply pressure while the glue begins to set.

Apply glue to the outside of the shock cord assembly and glue it into the forward end of the rocket.



Glue it as far back into the tube as possible, with the shock cord sticking out of the tube.

If the shock cord assembly is not glued in far enough, the nose cone will no longer fit correctly.

Allow glue to dry.

8. Painting

If you do not wish to paint your rocket skip this step. The following paint scheme is optional. You can use any paint/colors you see fit.

Wash the nose cone with warm water and soap. Do not let water inside the nose cone. Let dry.

If you would like to paint the nose cone, then thoroughly sand it with 200 grit sandpaper. Do not sand the shoulder. Sanding will allow paint to adhere to the surface of the cone.

Ensure that the model is completely dry. Wipe off any dust. Follow the manufacturer's instructions for spray painting and always spray in a well-ventilated area.

Insert the nose cone into the rocket. (Do not insert the nose cone, if you do not want to paint it). Spray a uniform base coat of primer. Sand fins lightly with a fine sandpaper and repeat the primer coat. Make sure the primer and paint do not get inside the launch lugs.

After the model is dry apply a coat of yellow or similar color to the entire rocket. Allow to dry overnight.

Mask off everything except for the forward, large fins. Paint the exposed area red or similar color. Let dry.

Mask off everything except for the smaller fins. Paint these fins orange. Let dry.

9. Decals

Applying self-adhesive Decals. You can apply both decals on a dry surface, or if you prefer, you can moisten the surface of the model under the decals using water with a drop of a liquid soap or dish washing detergent. To apply – lift the decal off the backing paper using a sharp knife and attach onto the rocket.

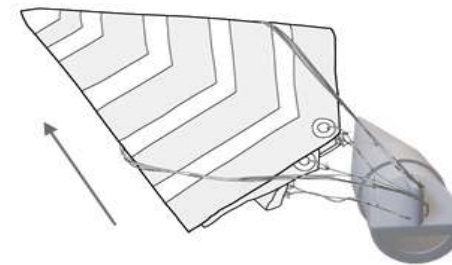
The "Maxtermind" decal is self-adhesive. Use a sharp knife or scissors to cut out the "Maxtermind" decal as close as possible to the image, leaving extra 1/4" (5mm) on one of the narrow sides.

Bend the extra 1/4" until the backing paper separates from the decal. Remove the backing paper. Cut off the extra 1/4" from the decal and attach to the rocket 2" (52mm) from the top of the tube.

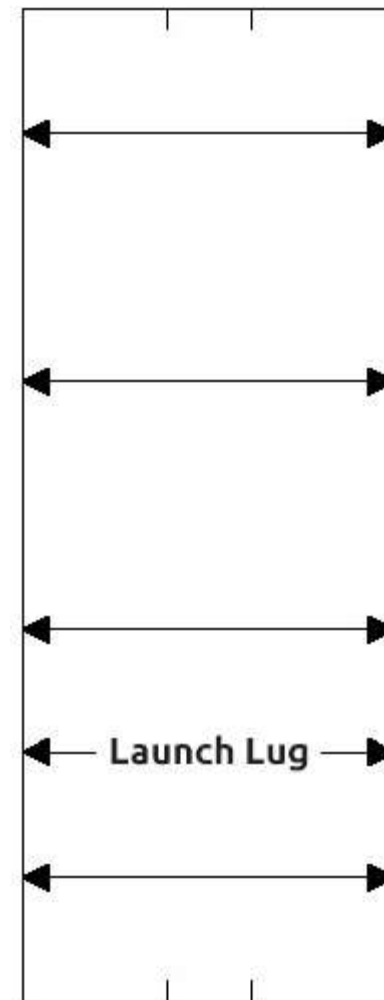
Find the piece containing self-adhesive red strip. Using a knife remove the strip from the backing paper and apply around the forward edge of the tube.

10. Parachute assembly

Feed the parachute shroud lines through the nose cone loop and then insert the parachute through the string loop, then pull the parachute to tie it to the nose cone.



Securely, tie the open end of the shock cord to the nose cone loop.



Recommended Motors & Launch Preparation

This rocket must be launched from 3/16" launch rod.

The following motors are recommended for this rocket:

Estes® C11-3, D12-5
Aerotech® RMS D15-5*

* Remove 2 seconds off the 7 second version of this reload.

Insert the recovery wadding in the tube first. Make sure it covers the tube's entire area/diameter and placed below the shock cord assembly.

Pack the parachute and feed the shock cord into the airframe. Insert the folded parachute. Parachute should not be packed too tightly, or it may not eject.

Insert the nose cone into the airframe.

Insert rocket motor into the motor mount, making sure it is locked securely in place. Your rocket is now ready for launch.

The smallest motor (C11-3) is recommended to verify correct operation of the rocket.

Model Rocket Safety

Model rocketry is a hobby that is not without risk.

By using this rocketry product, you agree not to hold Rocketarium.com and/or Denau Hobby Supplies and its employees or affiliates liable for any damages, or injuries, caused by (directly or indirectly) use of this product.

Always follow the National Rocketry Association (NAR, www.nar.org) or Tripoli Rocketry Association (TRA, www.tripoli.org) safety rules.

Shock Cord Mount

