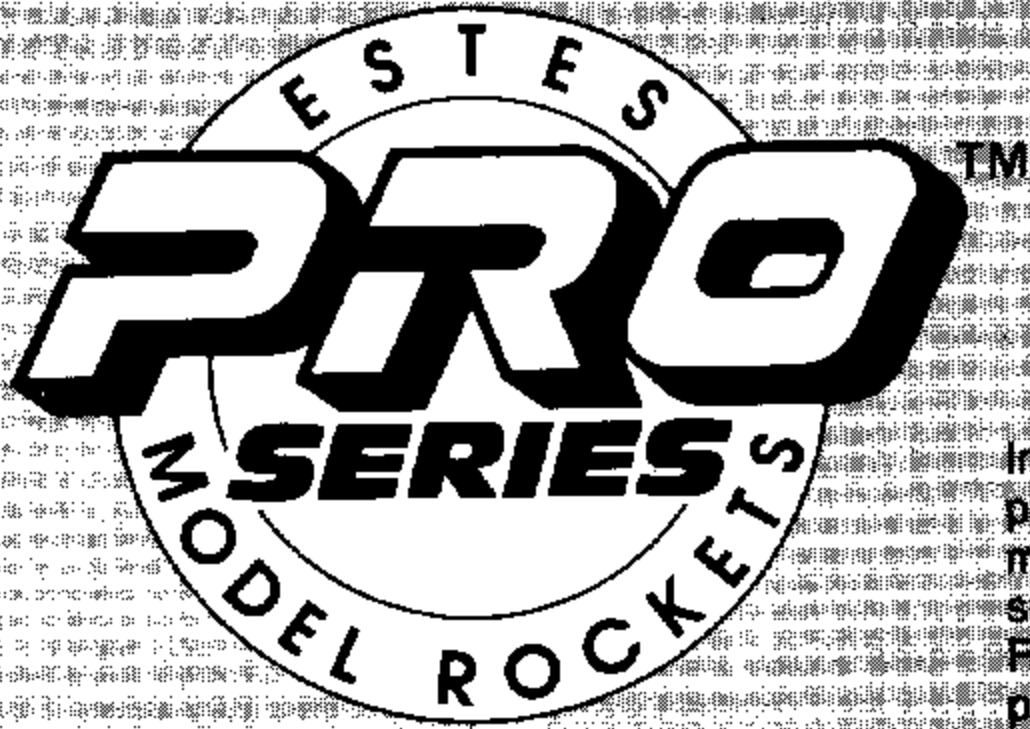


Finished 2/22/93



Maxi-Force

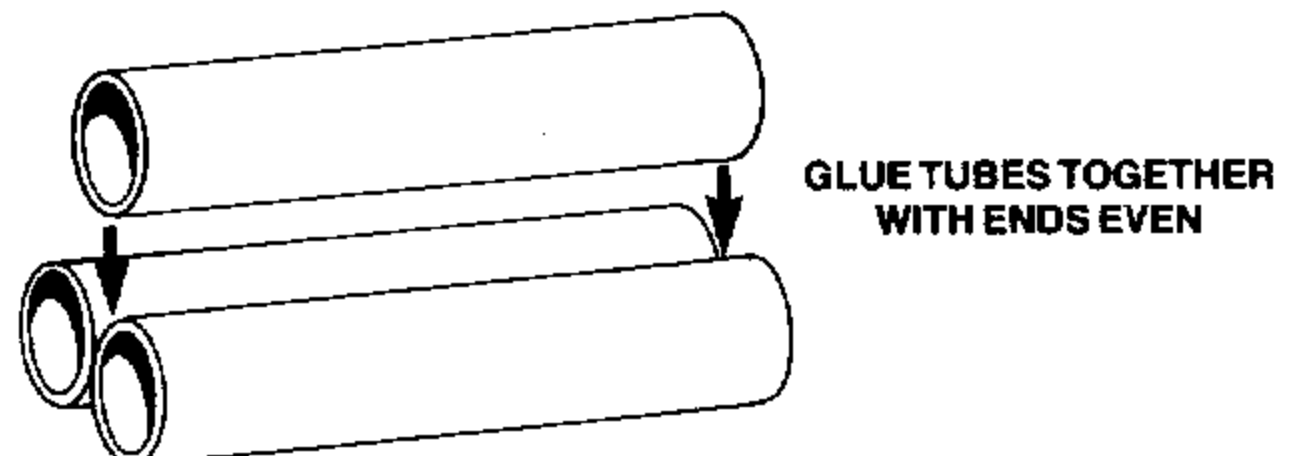
Advanced Model Rocket

In order to complete the assembly of the rocket components supplied in this kit, you will need a pair of scissors, a pencil, a ruler, sandpaper, Titebond Glue and Epoxy (six or ten minute), a modeling knife, a paint brush, enamel spray paint of your choice, masking tape, sandpaper, surface coat epoxy, and waxed paper. Read all instructions carefully and test-fit all parts together before applying any epoxy or glue. If parts don't fit, sand as required for proper fit.

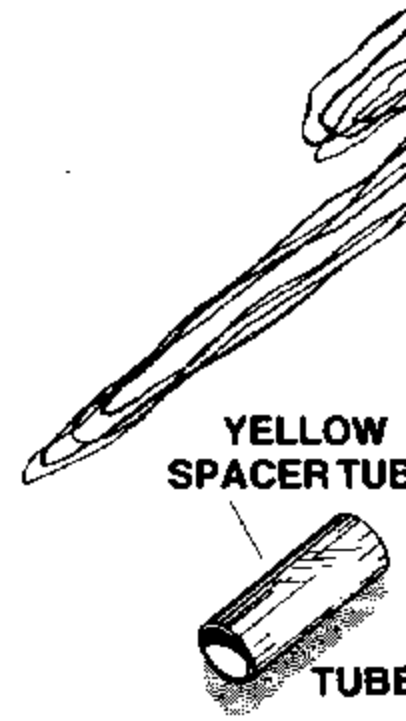
MAXI-FORCE ASSEMBLY INSTRUCTIONS

ENGINE MOUNT ASSEMBLY

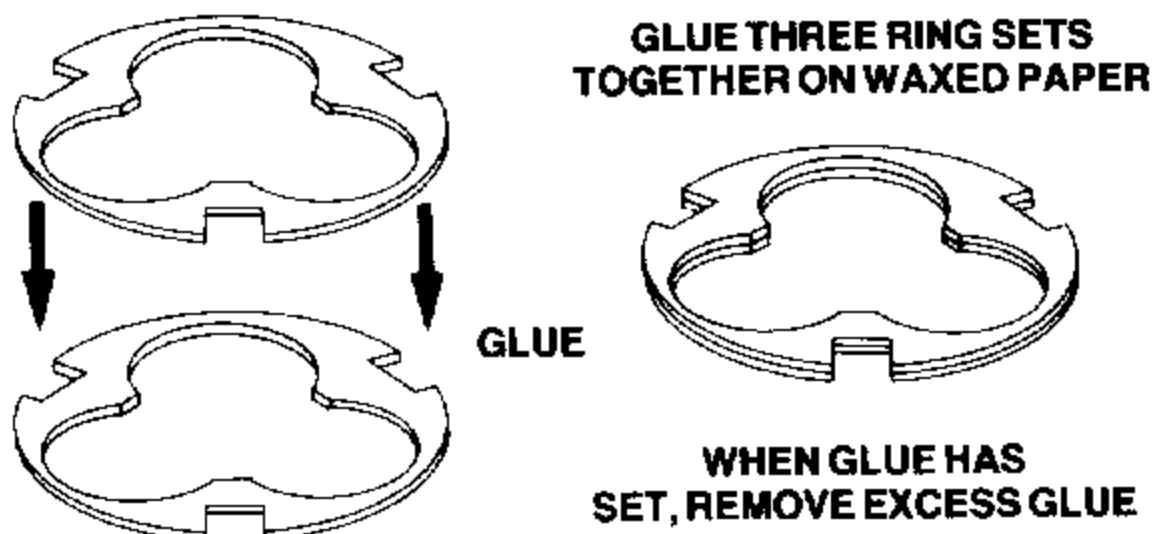
1. Glue or epoxy two engine mount tubes together on a flat surface so ends are even. Allow glue to set. Then glue third engine mount tube to mount assembly with all the tube ends even and allow to dry.



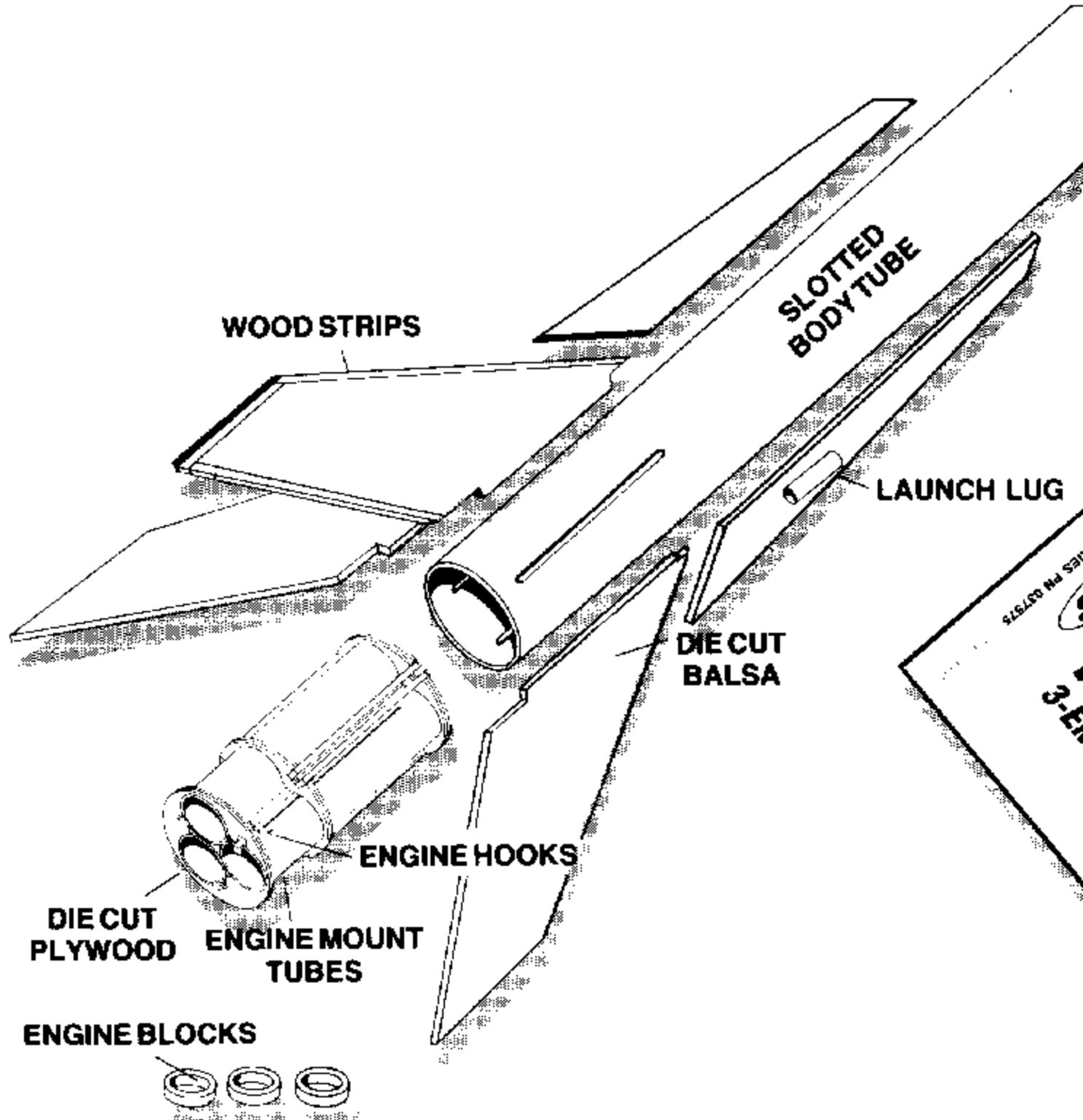
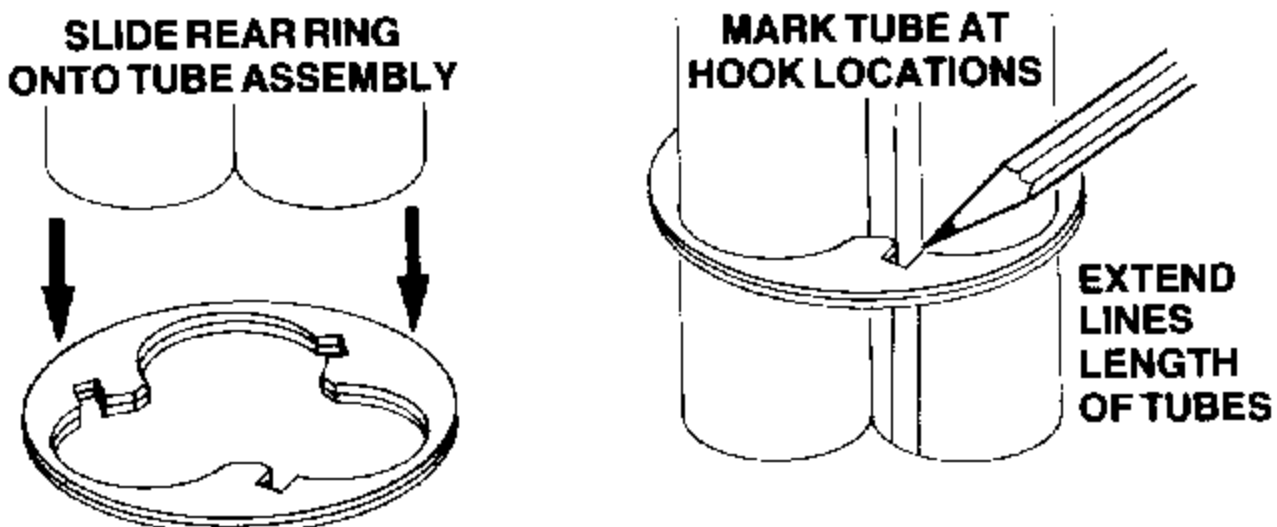
NYLON PARACHUTE

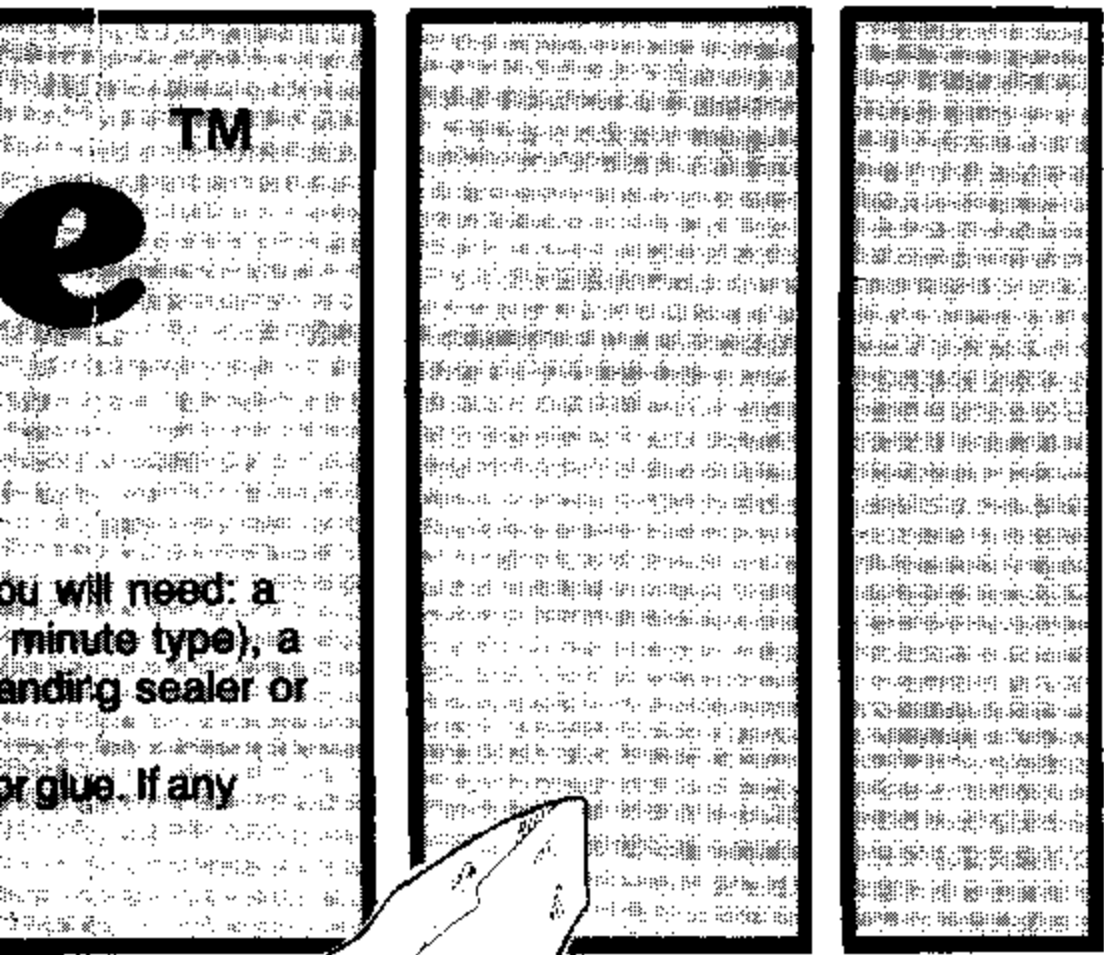


2. Remove the centering rings from the die-cut sheets and glue similar rings together on waxed paper. Wipe away excess glue and allow to dry. Remove any excess glue or epoxy from rings with sandpaper.

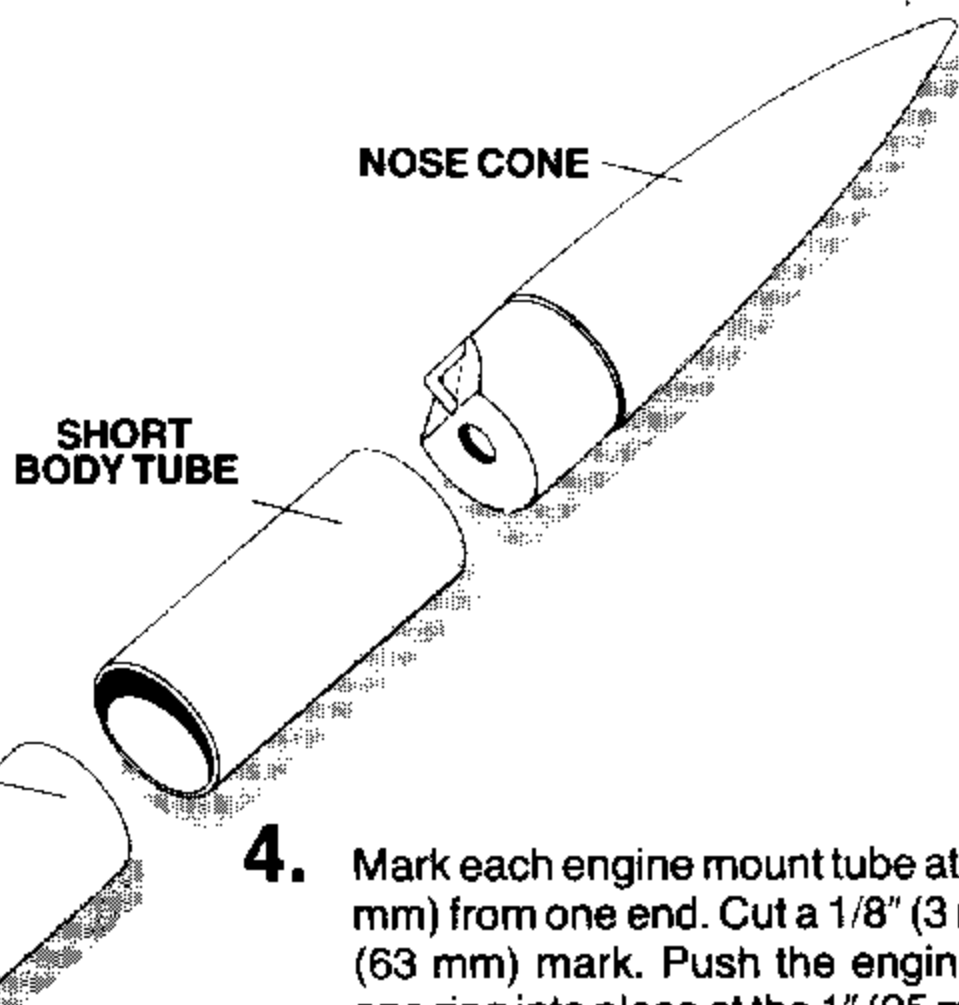
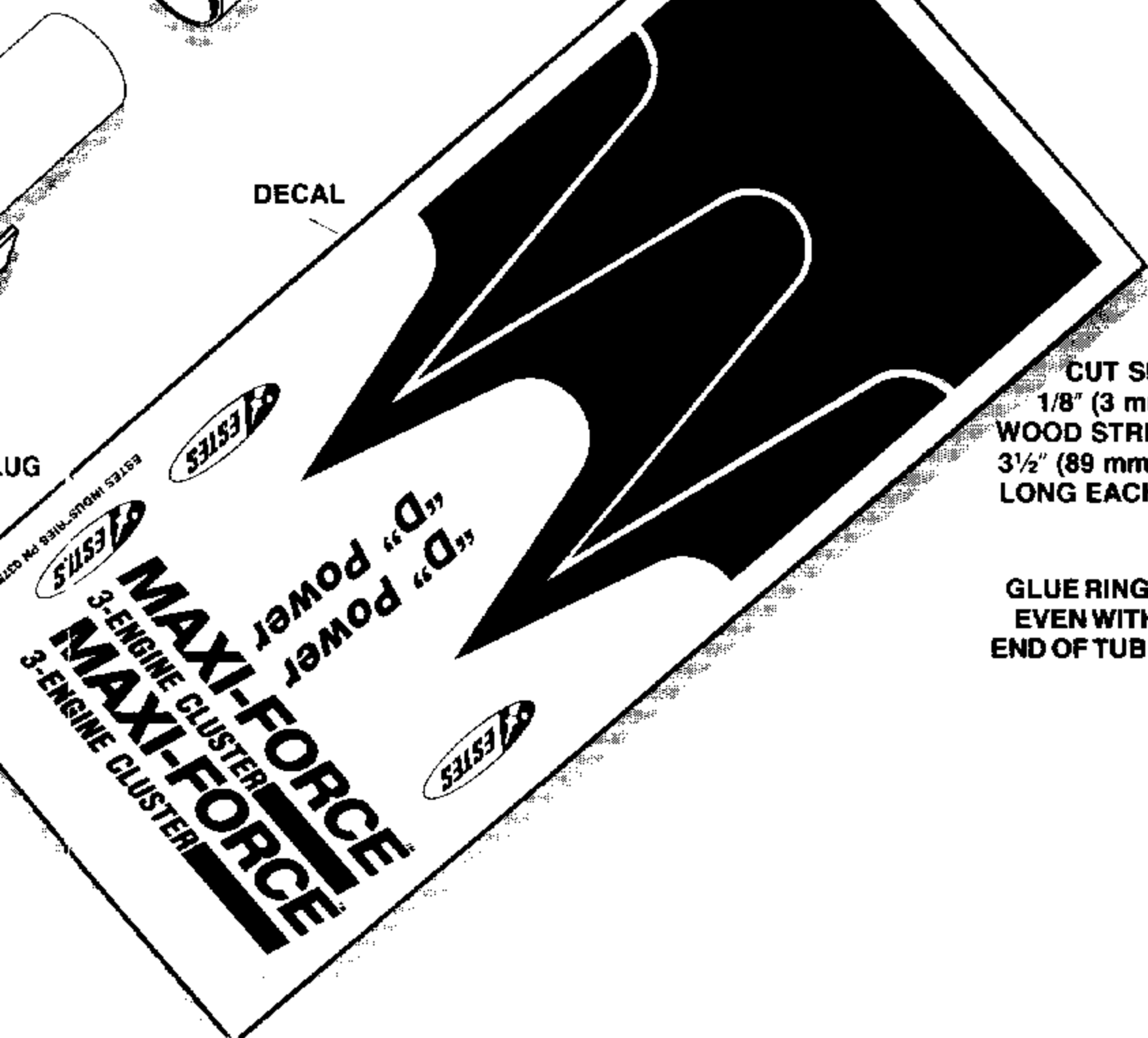
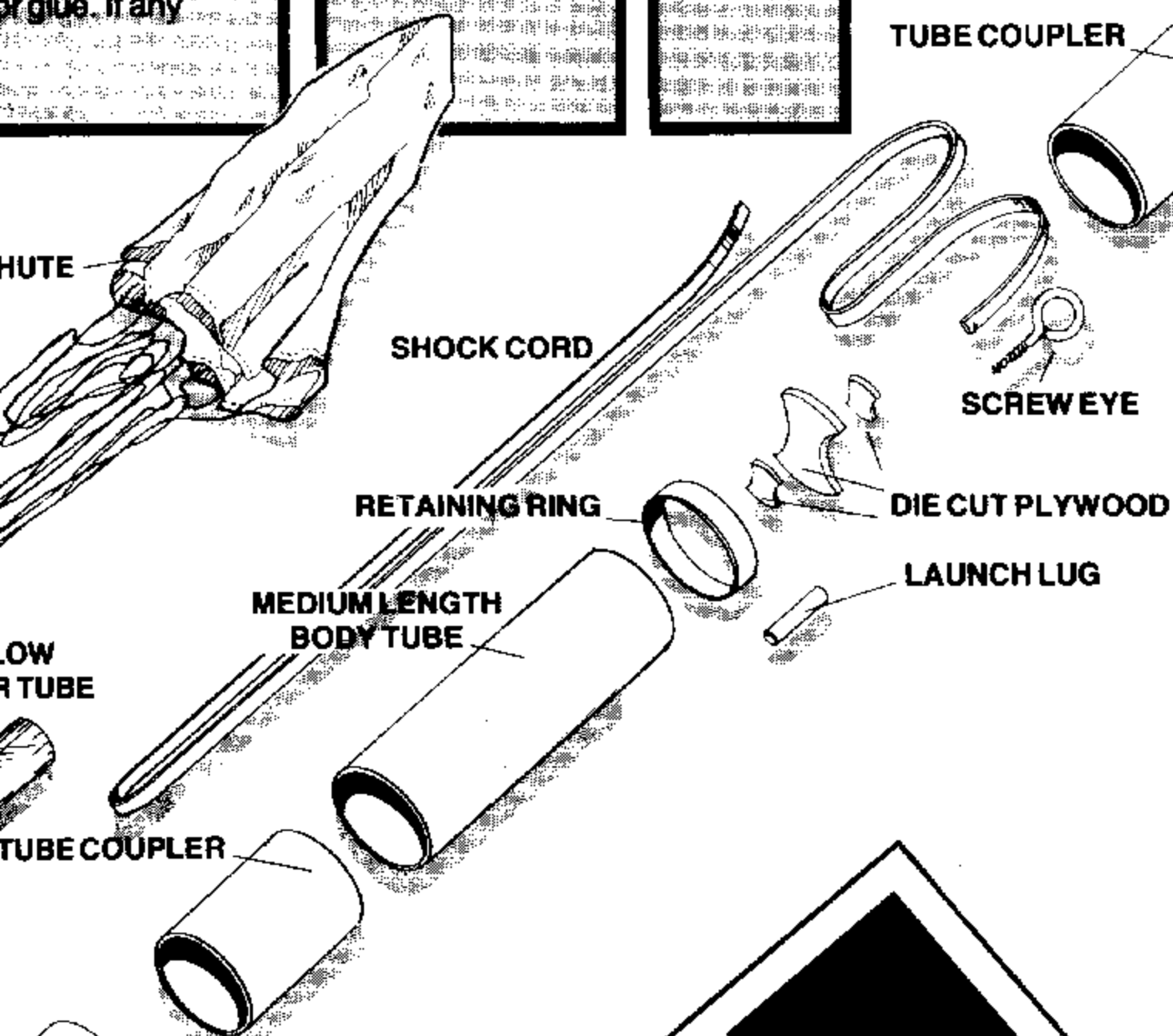


3. Slide rear centering ring onto engine mount tube assembly and mark engine hook locations on tubes. Using a door frame as a guide, draw lines at engine locations the length of the tubes.

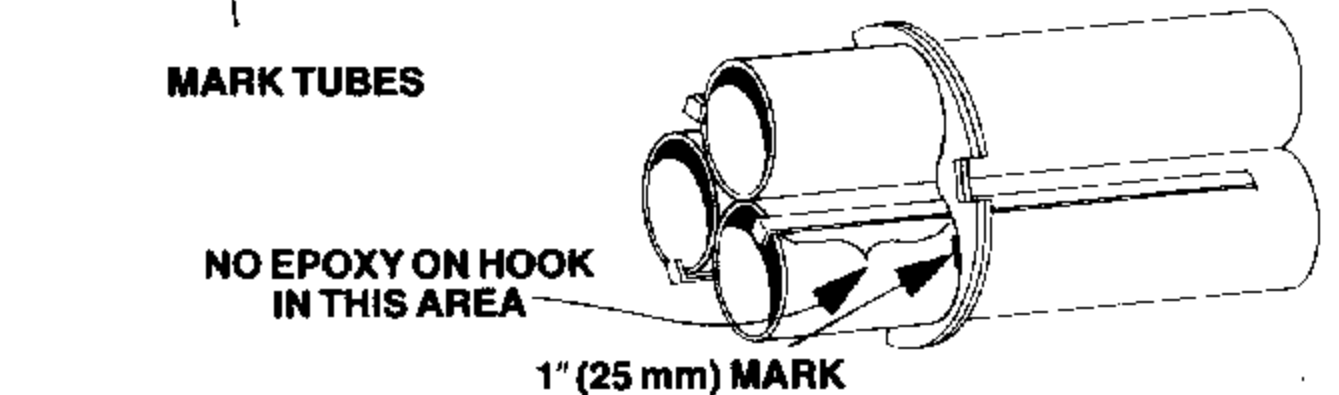
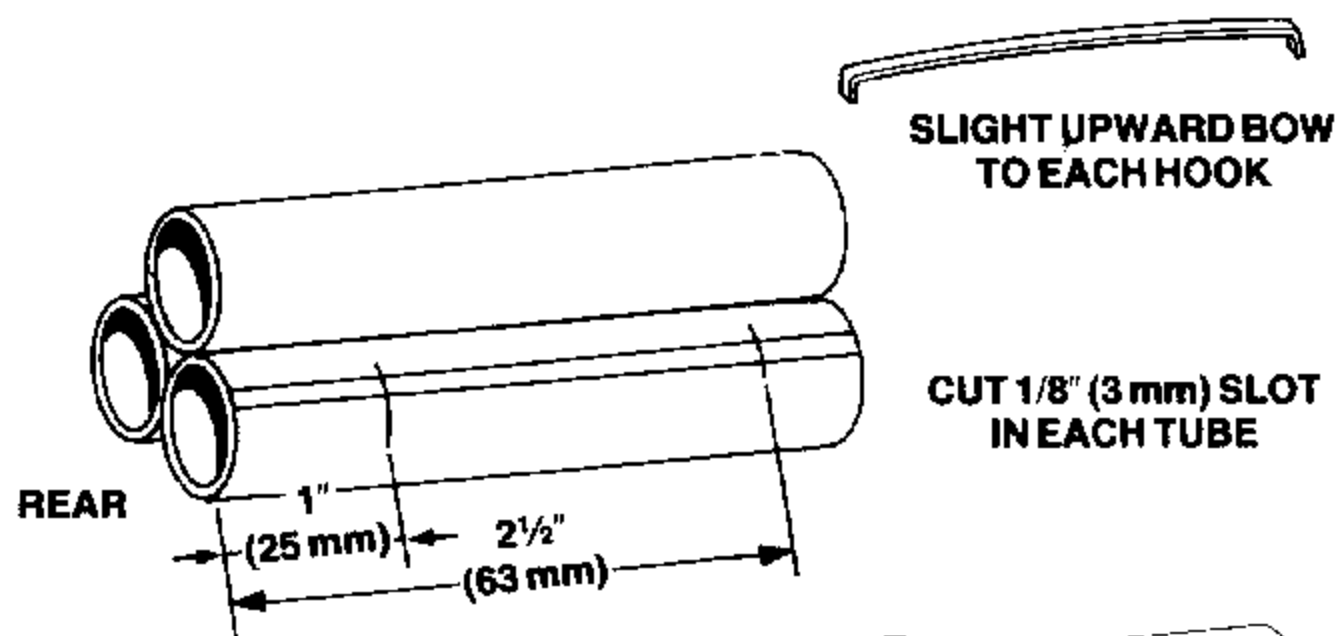




you will need: a
minute type), a
anding sealer or
r glue. If any



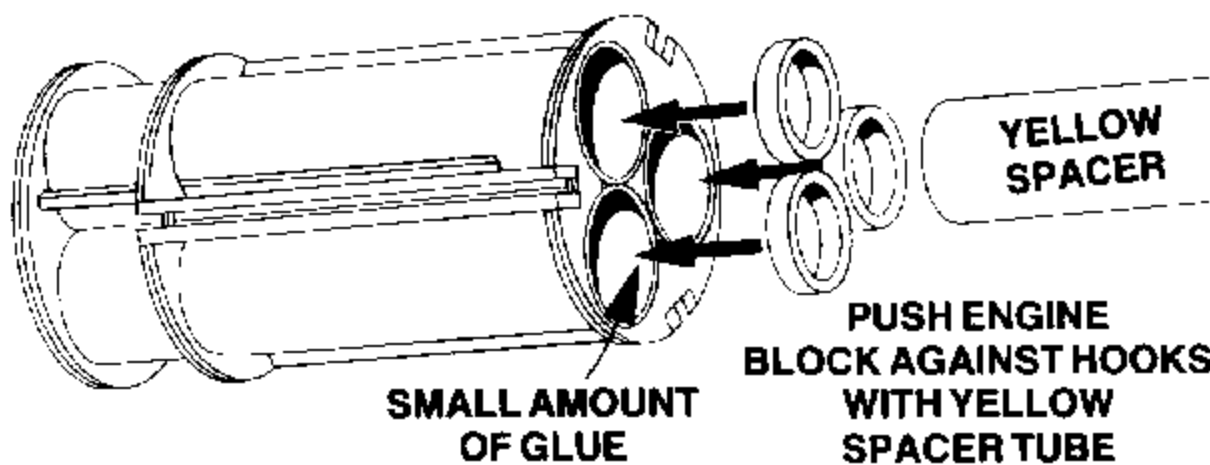
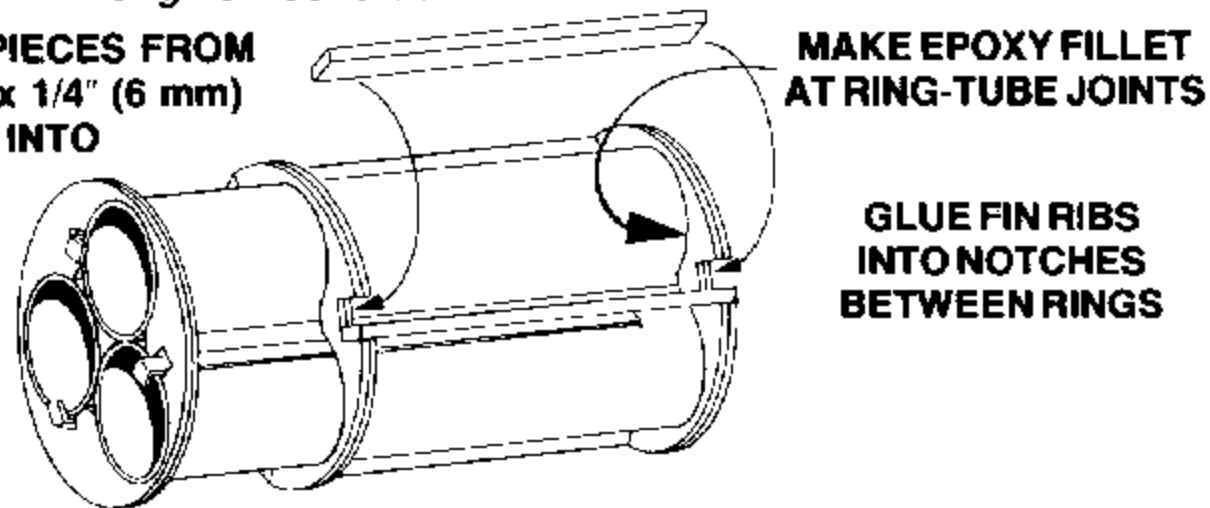
4. Mark each engine mount tube at 1" (25 mm) and 2 1/2" (63 mm) from one end. Cut a 1/8" (3 mm) wide slit at the 2 1/2" (63 mm) mark. Push the engine hook into slit and slide one ring into place at the 1" (25 mm) mark. Apply glue or epoxy over hooks and at ring-tube joint and set aside to dry.



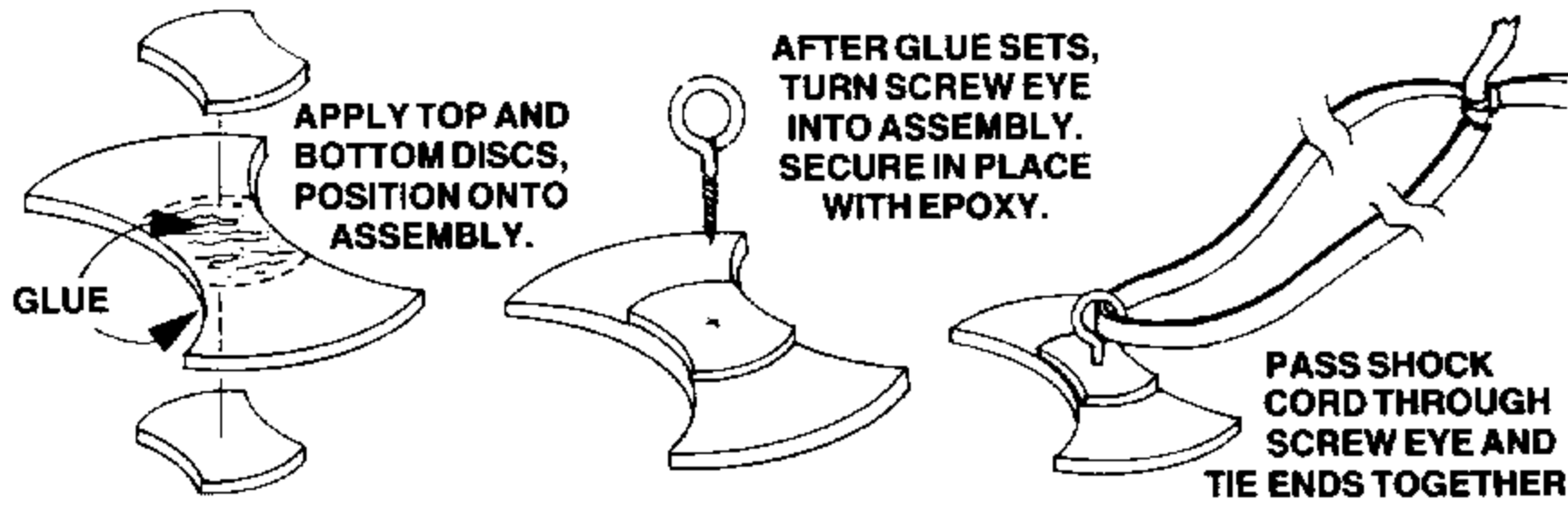
5. Glue or epoxy remaining centering rings to the engine mount tubes flush with the ends of tubes. Apply a fillet of glue or epoxy at ring-tube joint. Glue or epoxy six fin ribs (cut from 1/8" [3 mm] x 1/4" [6 mm] x 14" [35.6 cm]) wood into six pieces 3 1/2" [89 mm] long) into ring notches as shown. Glue or epoxy engine blocks into place against engine hooks as shown.

CUT SIX PIECES FROM 1/8" (3 mm) x 1/4" (6 mm) WOOD STRIPS INTO 3 1/2" (89 mm) LONG EACH

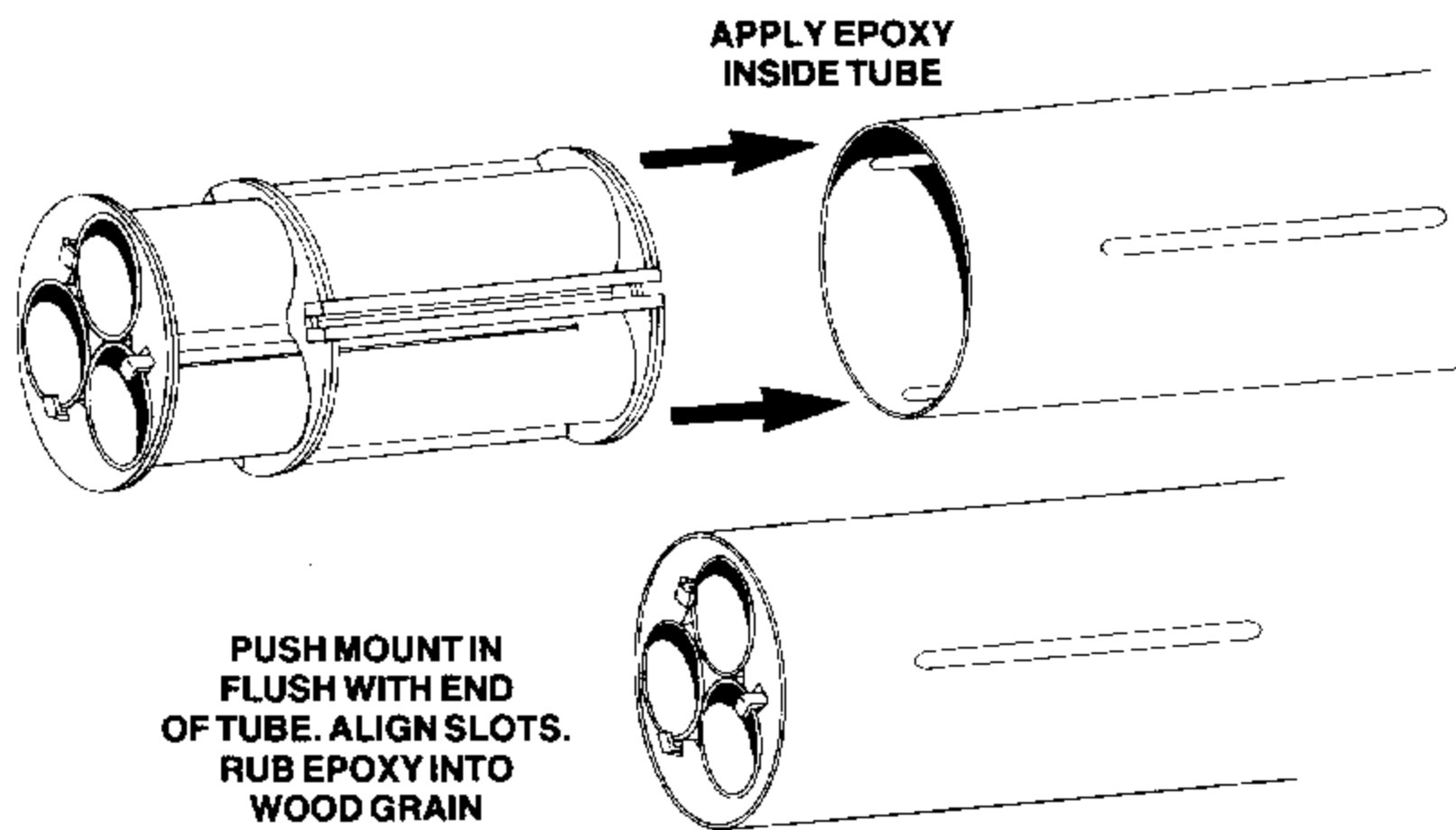
GLUE RINGS EVEN WITH END OF TUBES



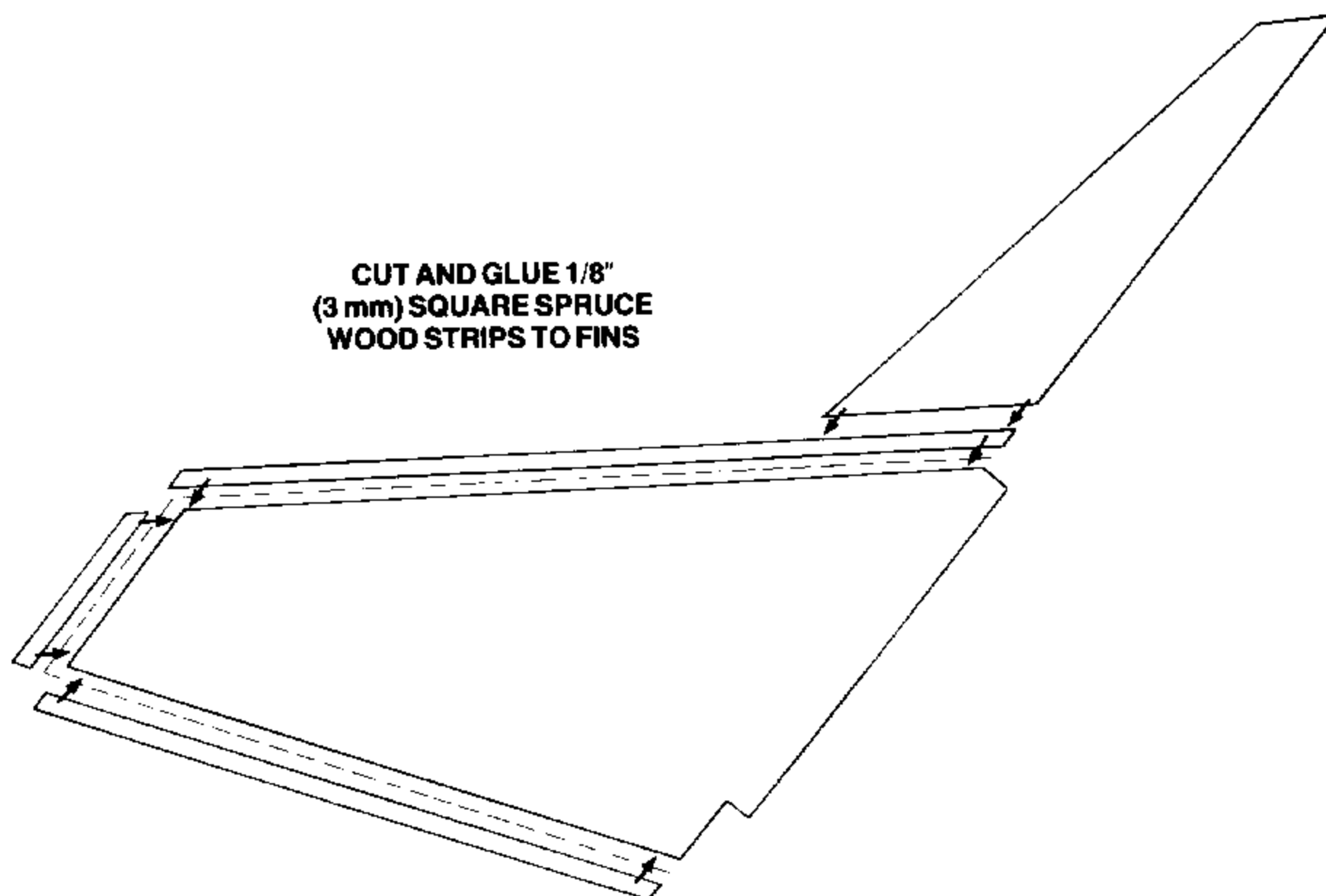
6. Assemble shock cord mount as shown. Use epoxy to secure screw eye in the center of mount and coat exterior of assembly. Pass shock cord through screw eye then tie ends together to make a loop.



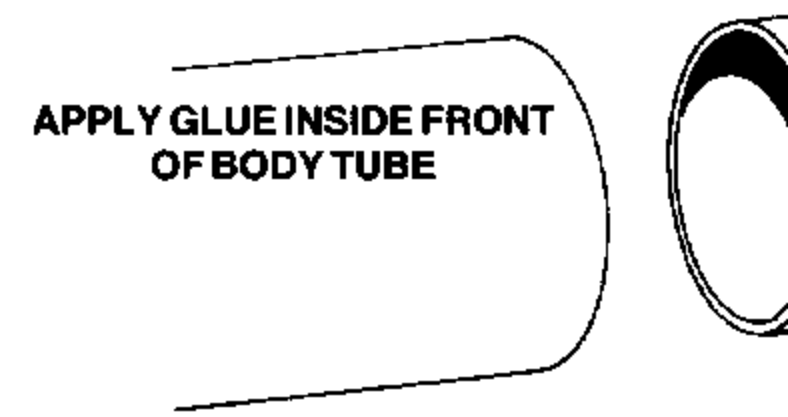
7. Check fit of engine mount assembly in rocket body tube. Sand plywood part edges as necessary to attain smooth fit. Glue or epoxy engine mount assembly in place inside body tube. Align engine mount even with end of tube and slots in tube with slots between plywood ribs before glue sets. **DO NOT GET GLUE OR EPOXY IN FIN SLOTS.** Allow assembly to dry, then rub one or two coats of epoxy into the grain of the exposed rear plywood ring.



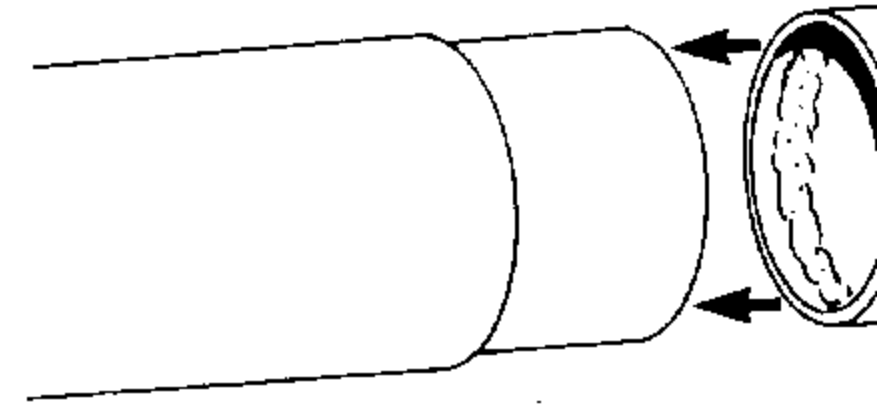
8. Sand balsa fin edges smooth and straight. Cut, match, and glue or epoxy 1/8" (3 mm) square spruce to fin edges and assemble fins as shown.



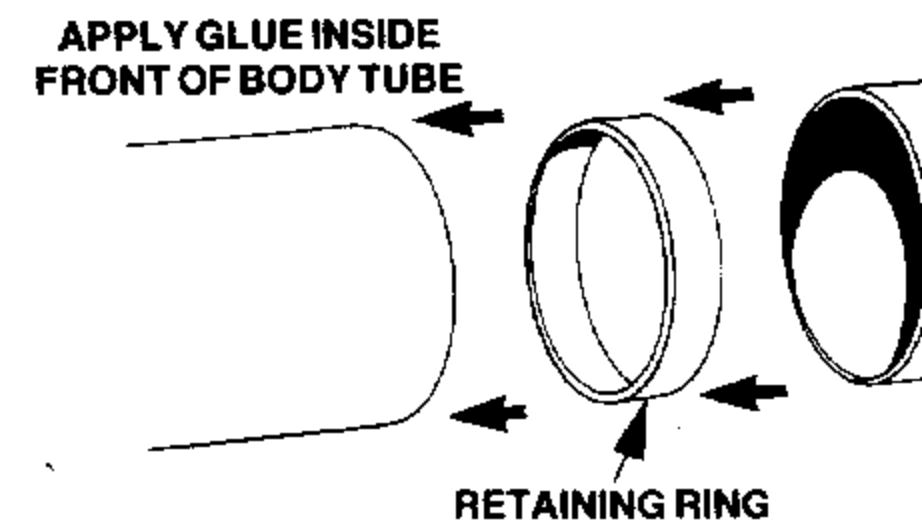
9. Mark tube coupler 2" (51 mm) from one end of front of body tube. Push tube coupler into glue or epoxy to set.



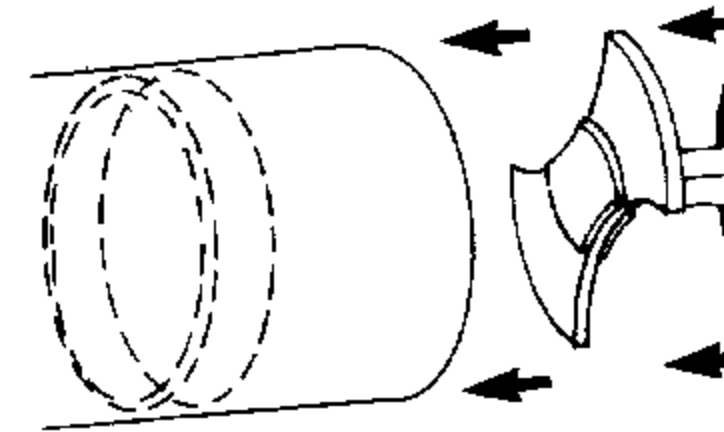
10. Apply glue or epoxy around inside of medium length body tube over tube coupler. Allow to dry.



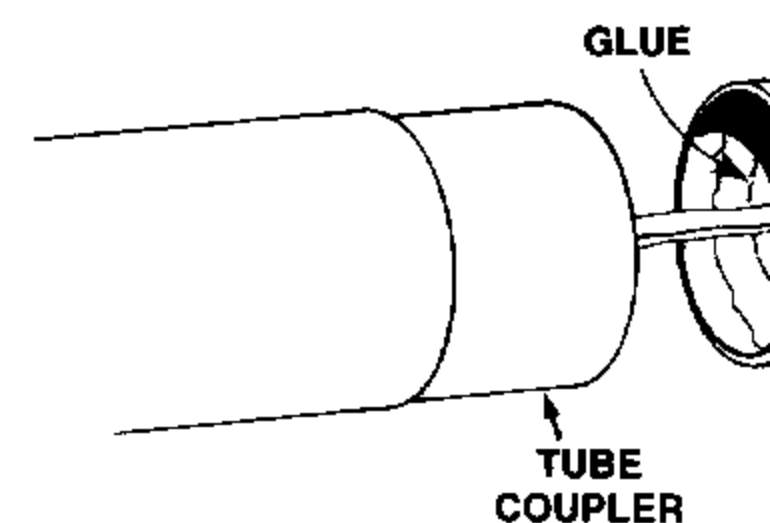
11. Mark other tube coupler 2" (51 mm) from inside front of tube assembly, about 1 1/2" (13 mm) long retaining ring into tube stopping at the 2" (51 mm) mark. Allow to dry.



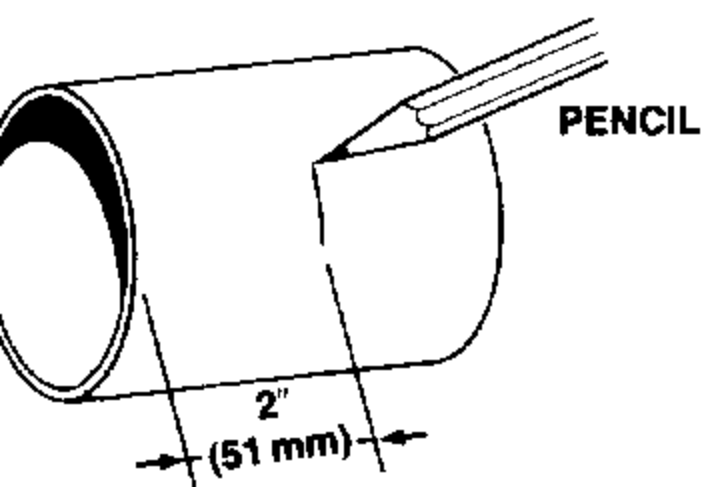
12. Apply glue or epoxy into tube in front of mount onto forward edge of 1/2" (13 mm) retaining ring against shock cord mount. Allow to dry.



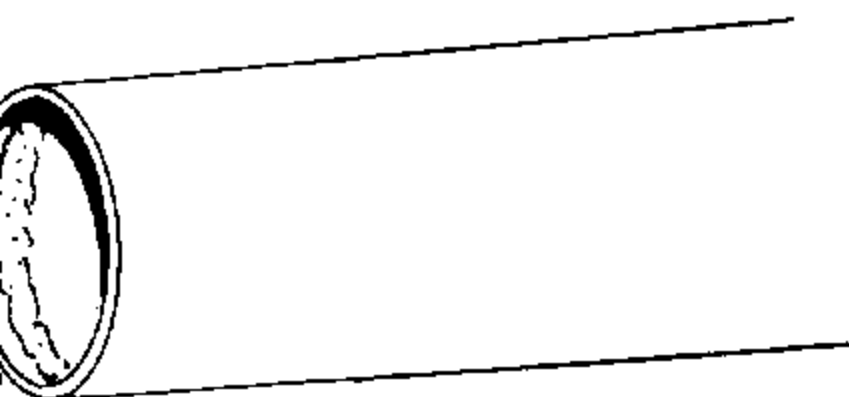
13. Apply glue or epoxy around inside of short body tube over tube coupler and retaining ring.



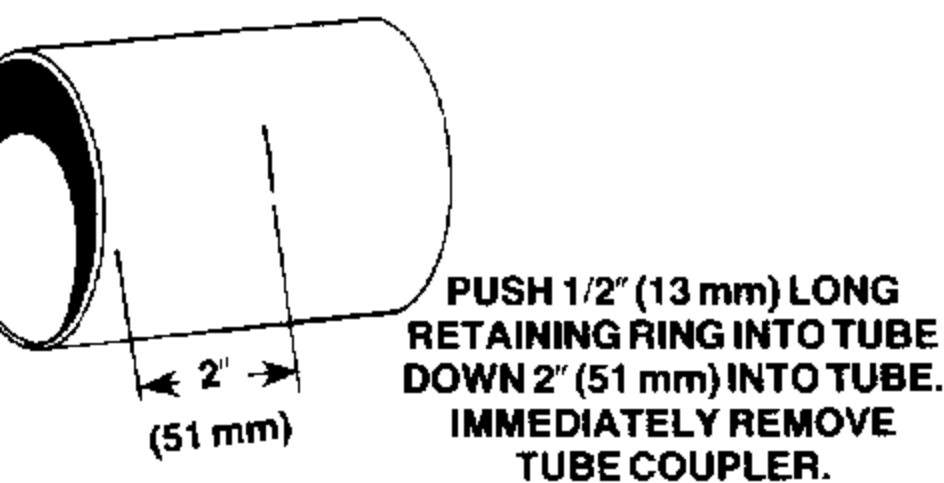
one end. Apply glue or epoxy around inside
er into tube to the 2" (51 mm) mark. Allow



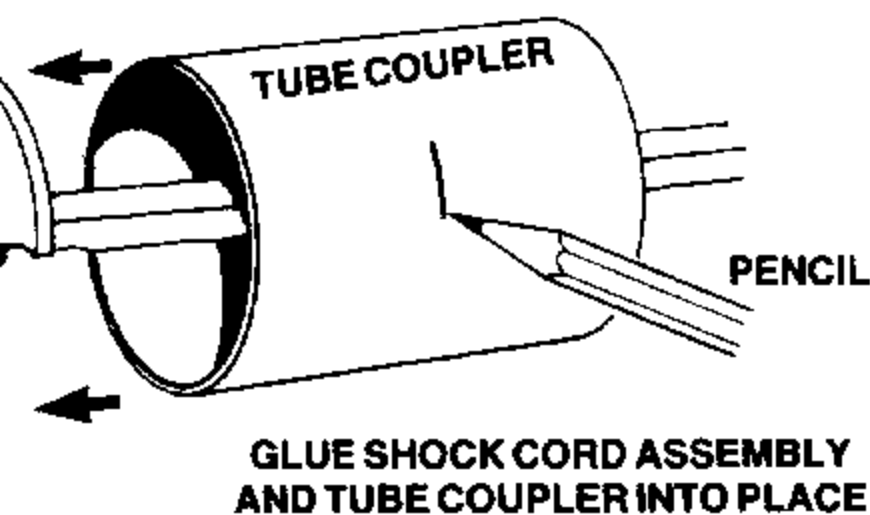
of one end of medium length tube., Push
e coupler and down against main body tube.



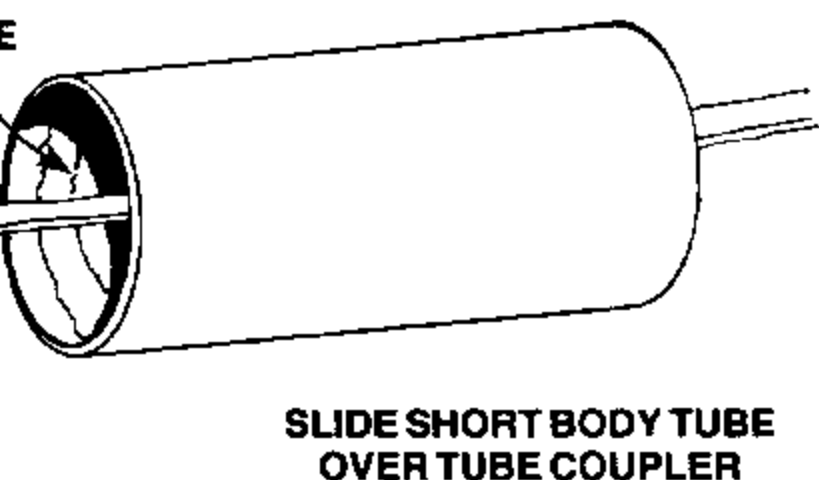
) from one end. Apply glue or epoxy around
ut 1 1/2" (39 mm) inside end of tube. Push 1/2"
tube with tube coupler. Remove coupler after
. Allow glue or epoxy to dry.



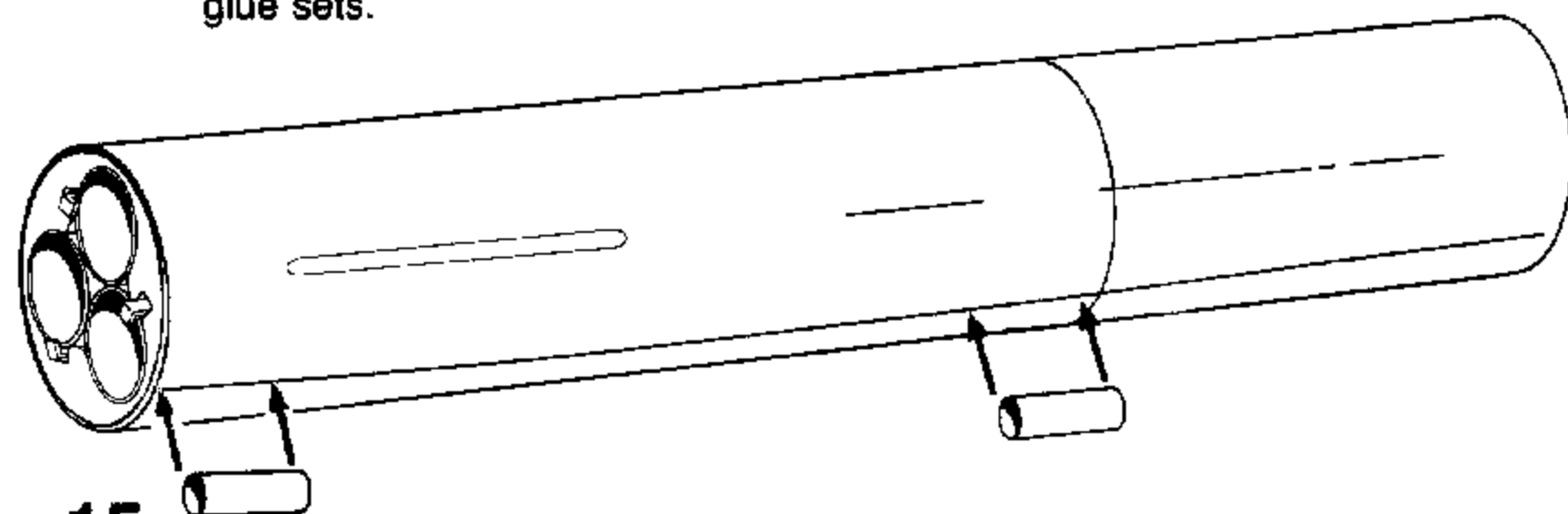
front of 1/2" (13 mm) ring. Place shock cord
(13 mm) ring. Slide tube coupler into tube
to dry.



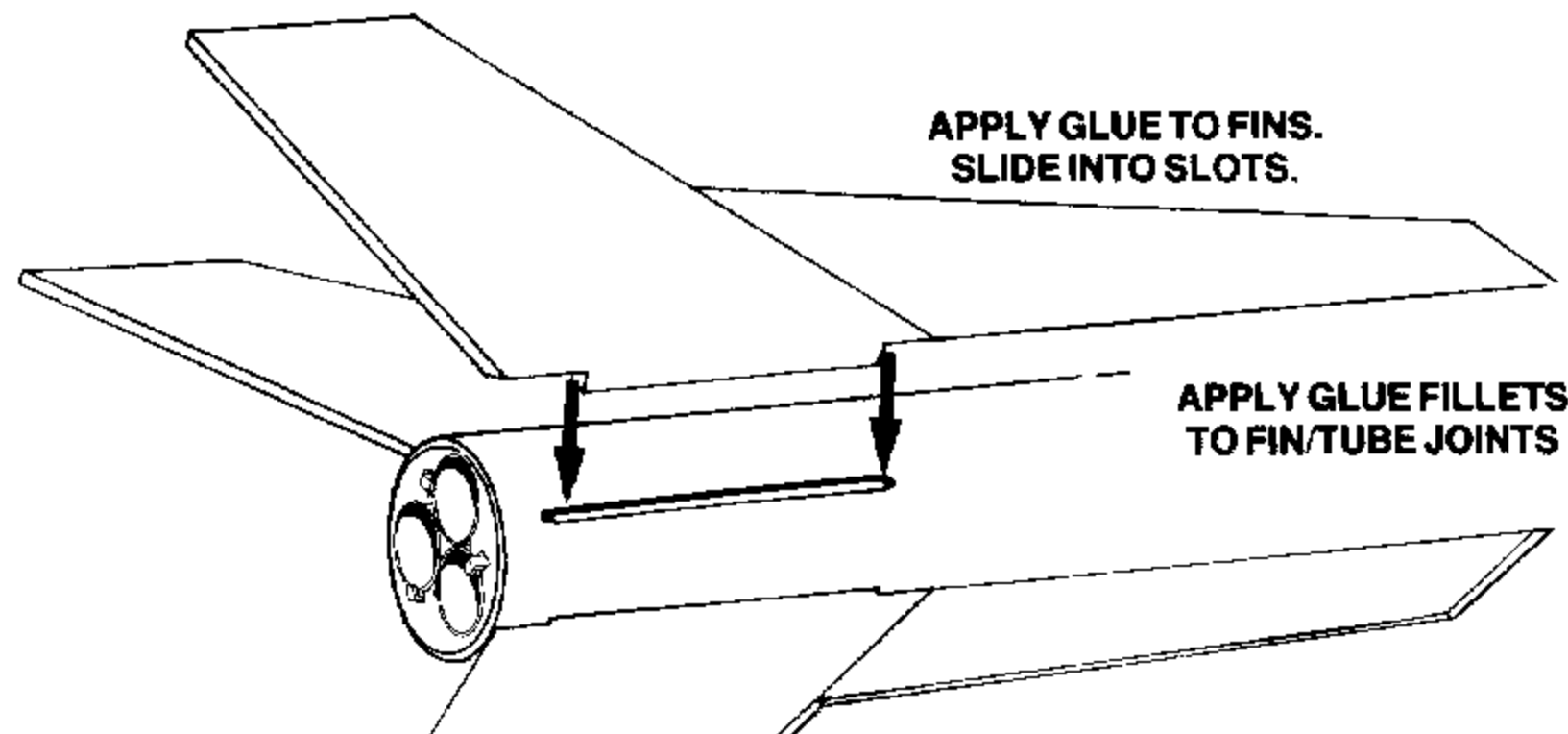
de of one end of the short body tube. Push
and down against main body tube assembly.



- 14.** Draw a straight line the length of body tube between one set of fin slots. Glue or epoxy one launch lug on line even with end of tube, and the remaining lug just below the first junction of the tubes. Make sure lugs are straight before glue sets.



- 15.** Test fit fins into body tube slots. Sand as necessary for proper fit. Apply glue or epoxy to the tab area and root edges of fin, slide fins into slots. Allow glue or epoxy to set before assembling next fin.



- 16.** Apply glue or epoxy fillets to each side of each fin at fin body tube joint. This adds important strength to fin assembly.

FINISHING

1. Sand nose cone with fine sandpaper to remove excess plastic from around sides of nose cone.
2. Seal fins with sanding sealer and lightly sand. Repeat sealing and sanding process until fins are smooth. Lightly sand all glue or epoxy glue joints smooth.
3. When satisfied with the sanded finish of your rocket, apply a primer coat of paint to your rocket and sand away any imperfection on rocket and nose cone. Apply two even coats of gloss white paint and allow to dry. Finish painting the MAXI-FORCE in the colors of your choice or follow the decor shown on the box illustrations.
4. When paint is completely dry, pass shock cord loop through eyelet on nose cone, open shock cord loop and pass nose cone through. Pull shock cord tight against nose cone.
5. Pass parachute shroud line loops through eyelet on nose cone, open shroud line loops and pass parachute through loops. Pull lines tight against nose cone.

APPLYING DECALS

Be careful when handling and cutting the self adhesive decals supplied with this kit. Do not crease the decal sheet. Decals will take a set to any crease. Cut out each decal with a sharp pair of scissors or a hobby knife. Make smooth cuts, do not nick as this can cause the decal to tear when it is peeled off the backing sheet. Cutting decals out along edges and names as blocks of decal will make application of decals much easier.

To apply large decals, it is advisable to peel backing paper off decal slightly and cut away a slice of backing paper to expose only enough decal adhesive to align decal and then once decal is aligned, peel backing off and smooth down decal removing any air as it is adhered to rocket.

An alternate way to apply large decals is to fill a bowl with warm water and add one or two drops of dishwashing detergent to the water. Carefully remove decal from backing sheet and dip it into the water. Apply the decal to the rocket, slip decal into position and press the air bubbles and water from under decal from the center of decal out to its edges without moving decal so adhesive of decal will grab and hold on the surface of the rocket.