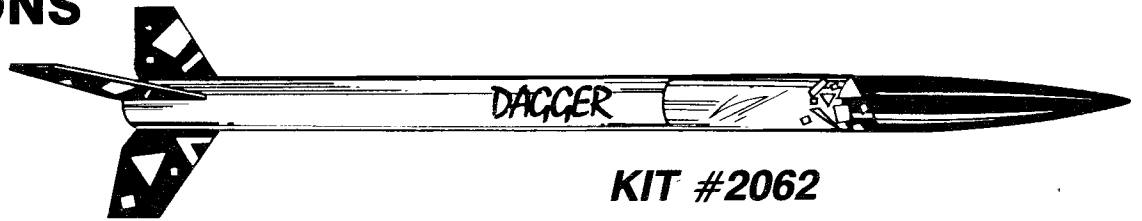


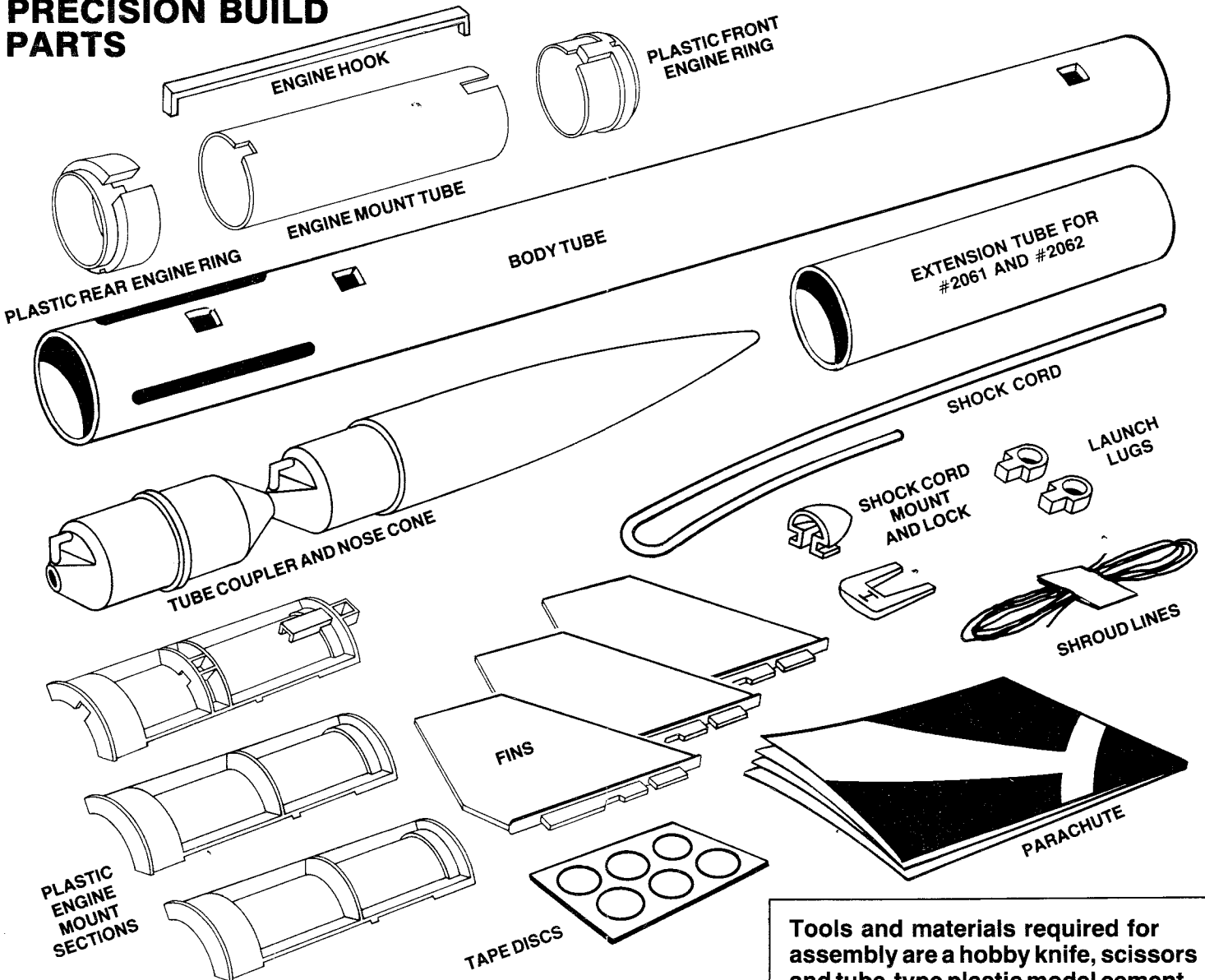


EX™

**PRECISION
BUILD
ROCKETS
ASSEMBLY
INSTRUCTIONS**



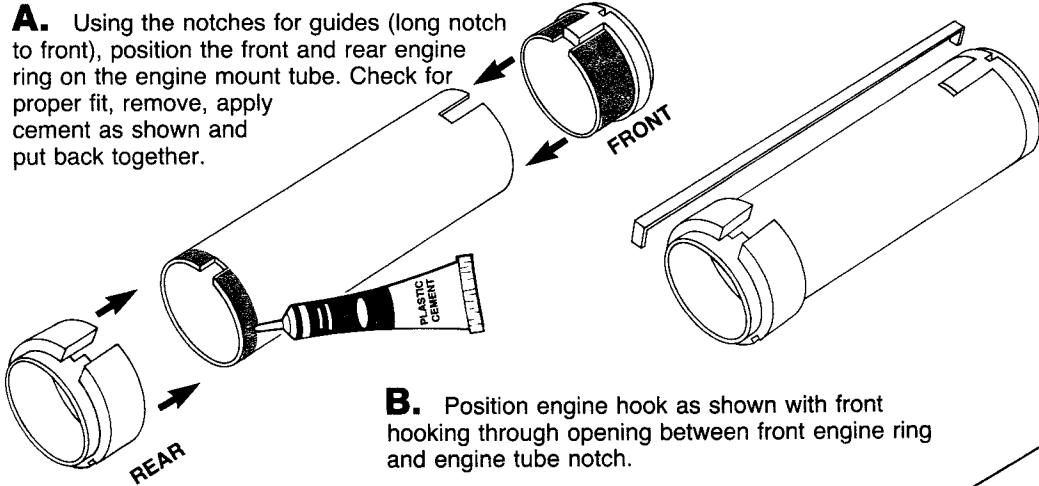
**PRECISION BUILD
PARTS**



Tools and materials required for assembly are a hobby knife, scissors and tube-type plastic model cement.

1. ENGINE MOUNT ASSEMBLY

A. Using the notches for guides (long notch to front), position the front and rear engine ring on the engine mount tube. Check for proper fit, remove, apply cement as shown and put back together.

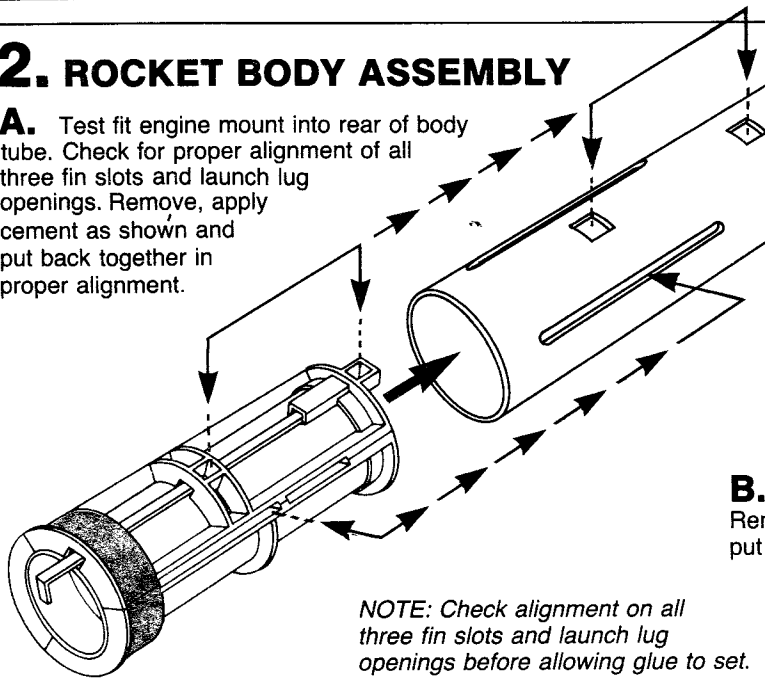


B. Position engine hook as shown with front hooking through opening between front engine ring and engine tube notch.

C. Locate the plastic engine mount section with engine hook notches and launch lug openings. Position this section directly over engine hook on engine mount. Rotate it slightly until it locks into place. Check fit, remove, apply cement and put back together.

2. ROCKET BODY ASSEMBLY

A. Test fit engine mount into rear of body tube. Check for proper alignment of all three fin slots and launch lug openings. Remove, apply cement as shown and put back together in proper alignment.



NOTE: Check alignment on all three fin slots and launch lug openings before allowing glue to set.

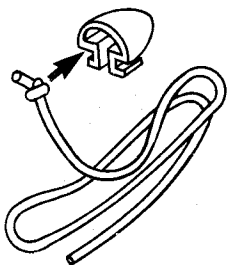
B. Test fit fins into slots. Remove, apply cement and put back into slots.

C. Test fit the two launch lugs into the shown. Make sure holes in launch lugs same direction as body tube. Check, remove, apply cement and put back together.

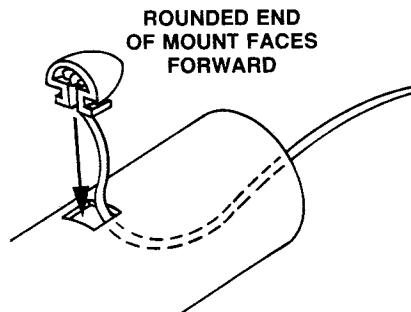
NO CEMENT ON FIN

3. SHOCK CORD MOUNT ASSEMBLY

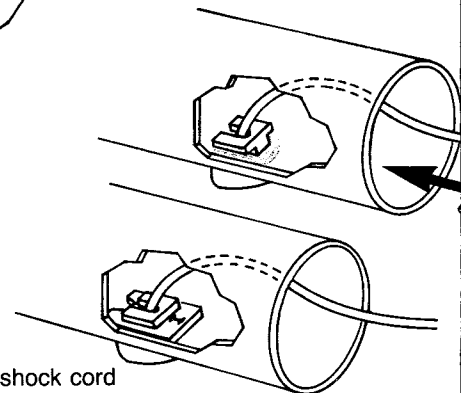
A. Tie knot in the end of the shock cord. Push knot into mount as shown.



B. Thread other end of shock cord through the opening near front of body tube. Push mount down into opening.

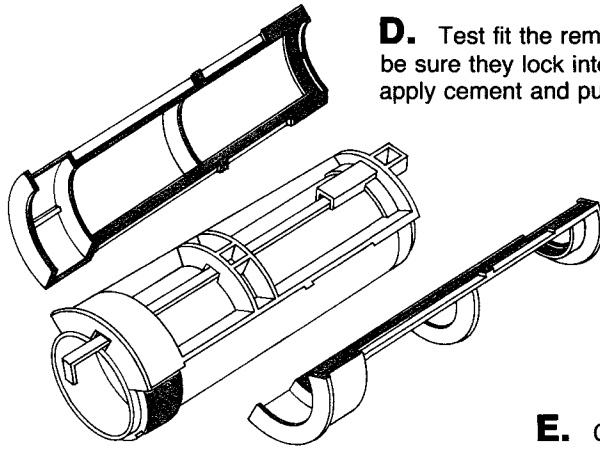
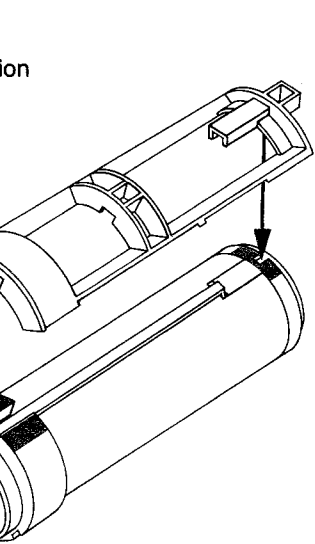


C. Locate the shock cord mount lock. The lock has the letter "I" in the plastic. Face the letter "I" out away from the body tube. Test fit the lock by sliding it a little ways under edges of mount. Remove lock, apply cement and slide it back all the way against mount.

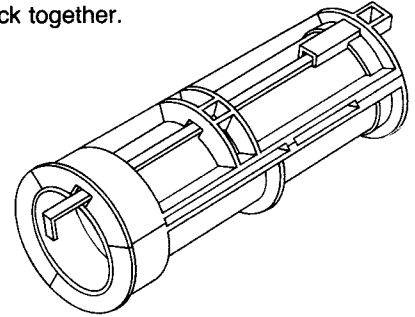


ALWAYS TEST FIT PARTS FIRST BEFORE APPLYING CEMENT!!

ion

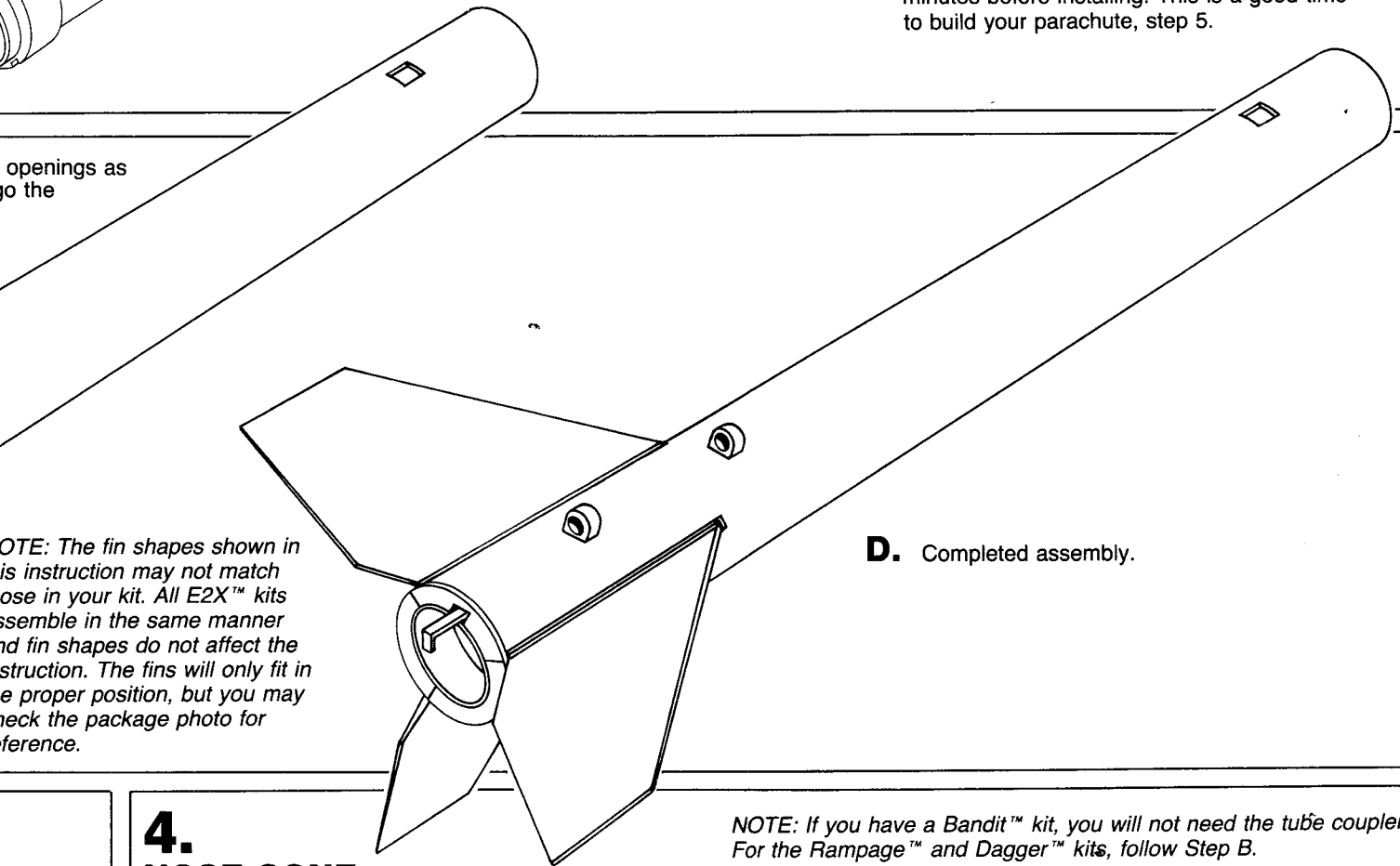


D. Test fit the remaining two sections, be sure they lock into position. Remove, apply cement and put back together.



E. Complete engine mount. Let dry for 10 minutes before installing. This is a good time to build your parachute, step 5.

openings as
go the

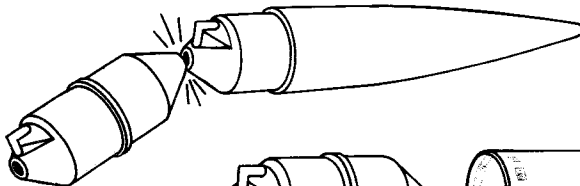


NOTE: The fin shapes shown in this instruction may not match those in your kit. All E2X™ kits assemble in the same manner and fin shapes do not affect the instruction. The fins will only fit in the proper position, but you may check the package photo for reference.

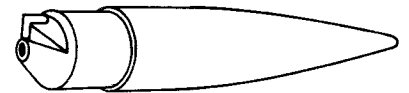
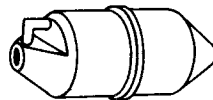
D. Completed assembly.

NOTE: If you have a Bandit™ kit, you will not need the tube coupler. For the Rampage™ and Dagger™ kits, follow Step B.

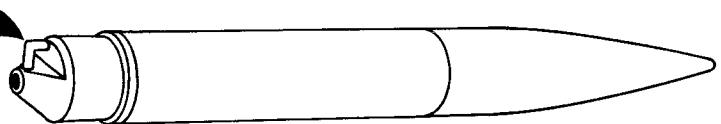
4. NOSE CONE ASSEMBLY



A. Snap the tube coupler and nose cone apart as shown. Clean off excess plastic. Hole in plastic loop may have to be cleaned out with a hobby knife.



CAUTION: Make sure loop on tube coupler is on the outside when assembled.

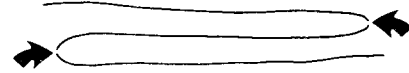
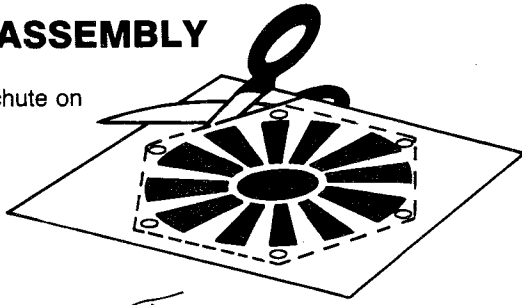


B. Test fit the nose cone and tube coupler into extension tube. Remove, apply cement inside tube as shown and put back together.

body
f
way up

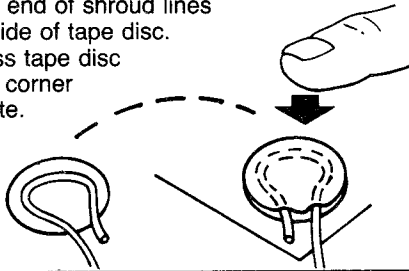
5. PARACHUTE ASSEMBLY

A. Cut out parachute on printed edge lines.

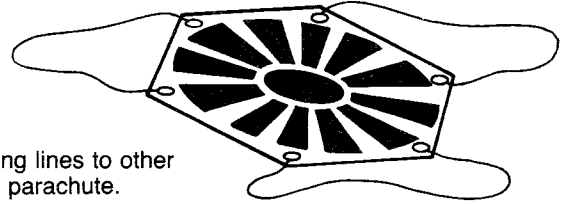


B. Remove tape from shroud lines, fold and cut into three equal lengths.

C. Loop end of shroud lines on sticky side of tape disc. Firmly press tape disc down onto corner of parachute.

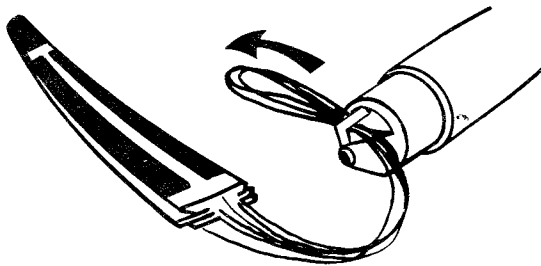


D. Attach remaining lines to other corners to complete parachute.

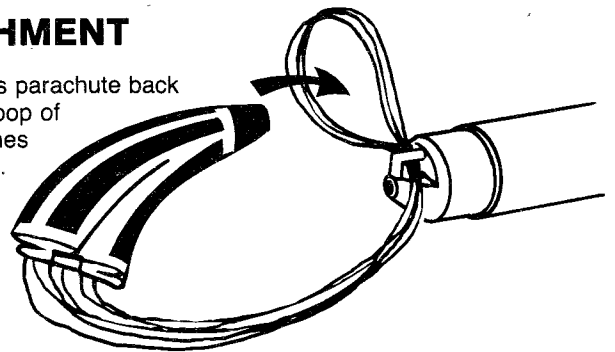


6. PARACHUTE AND SHOCK CORD ATTACHMENT

A. Thread shroud line through loop on coupler or nose cone.



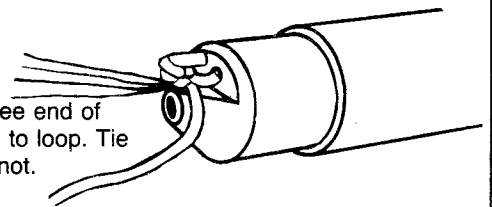
B. Pass parachute back through loop of shroud lines as shown.



C. Pull lines tight.



D. Tie free end of shock cord to loop. Tie a double knot.



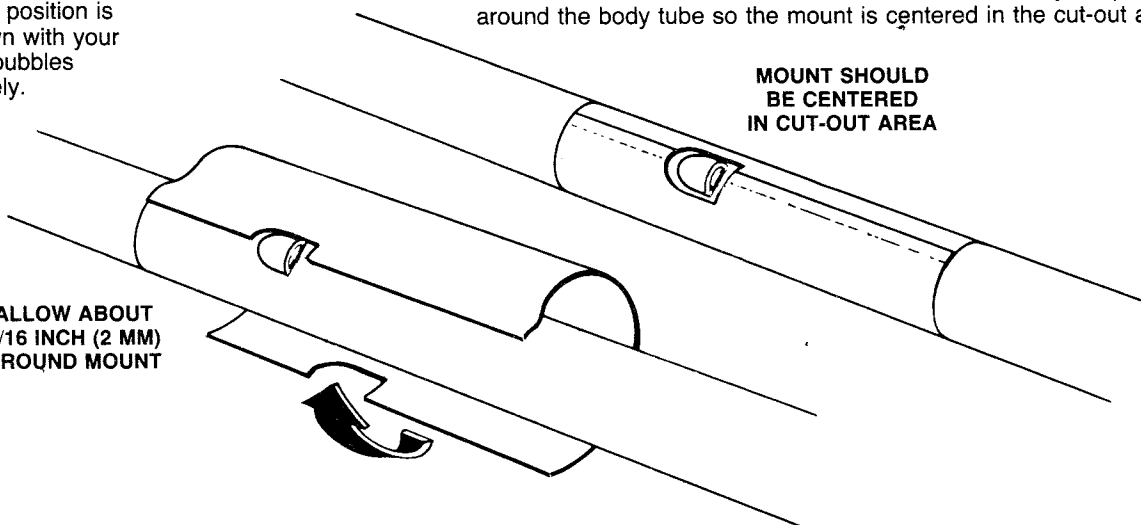
7. DECAL PLACEMENT

Use the photo on the front of the box as decal placement guide. Gently lift one decal at a time and lightly lay it down in position. If position is correct, rub it down with your finger to remove bubbles and stick it securely.

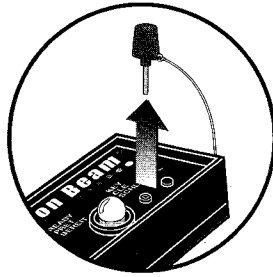
If your kit is either the Bandit™ or Rampage™, you will have to position the body tube wrap decal correctly to fit around the shock cord mount. Start the decal even with the top of the tube and straight down the middle of the shock cord mount. Allow about 1/16 inch (2 mm) around the mount as shown in the illustration. Carefully wrap the decal around the body tube so the mount is centered in the cut-out area.

ALLOW ABOUT
1/16 INCH (2 MM)
AROUND MOUNT

MOUNT SHOULD
BE CENTERED
IN CUT-OUT AREA



COUNTDOWN AND LAUNCH

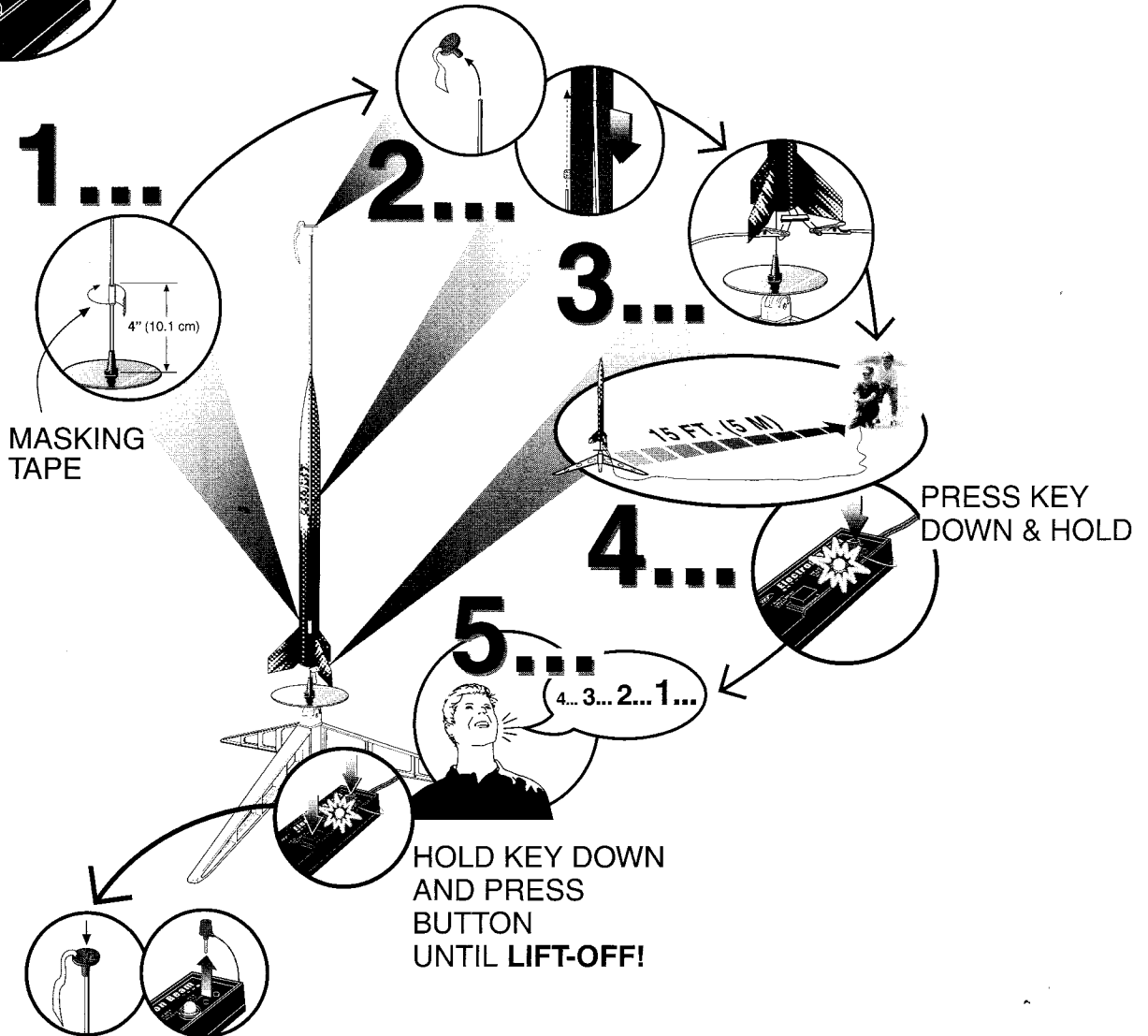


KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!

LAUNCH SUPPLIES

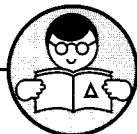
(Sold Separately)

- Estes® Porta Pad® II Launch Pad and Electron Beam® Controller
- Recovery Wadding
- Igniters (with Engines)
- Igniter Plugs (with Engines)
- Estes® Recommended Engines: A8-3, (First Flight) B4-4, B6-4, B6-6, C6-5, C6-7



PRECAUTIONS

NAR Safety Code



NO DRY GRASS OR WEEDS

FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.