

FINISHING YOUR ROCKET

When all glue is completely dry, cut out and apply pressure sensitive decals. Refer to photograph on front page and/or front of panel for decal placement.

ROCKET PREFLIGHT

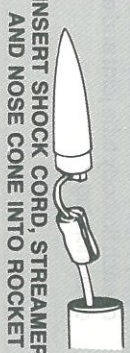
FOLD STREAMER
IN HALF 6 TIMES



NOTE: If nose cone fits too loosely wrap tape around the shoulder until a snug but not tight fit is achieved.

CRUMPLE AND INSERT
2 SQUARES OF
RECOVERY
WADDING

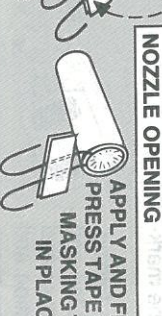
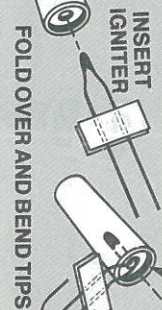
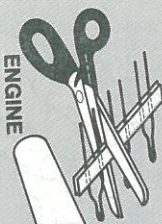
NOTE: If streamer fits too tightly into body, remove and re-roll. A too-tight fit could cause an ejection malfunction during flight.



INSERT SHOCK CORD, STREAMER, AND NOSE CONE INTO ROCKET

PREPARE ENGINE

SEPARATE THE IGNITERS



ENGINE

FOLD OVER AND BEND TIPS

IGNITER TIP MUST TOUCH
PROPELLANT DEEP INSIDE
NOZZLE OPENING

INSTALL ENGINE
IN ROCKET

LAUNCH SUPPLIES

To launch your rocket you will need the following items:

- Estes Launch Control System
- Estes Recovery Wadding (No. 2274)
- Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B4-6, B6-4, B6-6, C6-5, or C6-7
- Use 1/2A6-2 engine for your first flight to become familiar with your rocket's flight pattern.

FLYING YOUR ROCKET

Choose a large field away from power lines, tall trees, and low flying aircraft. Try to find a field at least 250 feet square. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great.

Launch area must be free of dry weeds and brown grass.

Launch only during calm weather with little or no wind and good visibility.

MISFIRES

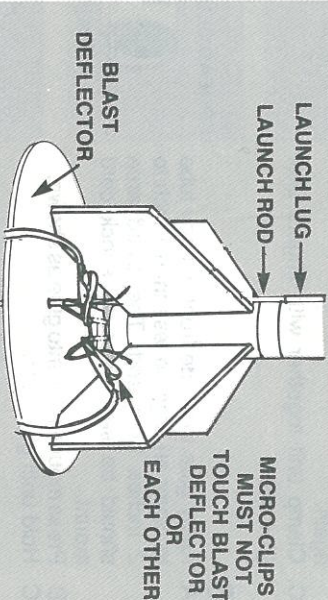
Failure of the rocket engine to function properly is nearly always caused by a failure to install the igniter correctly. This failure permits the igniter to heat and burn into two pieces without igniting the engine.

FOR YOUR SAFETY AND ENJOYMENT

Always follow the NAR-HIA* MODEL ROCKETRY SAFETY CODE while participating in any model rocketry activities.

*National Association of Rocketry-The Hobby Industry of America
84096

COUNTDOWN AND LAUNCH



MICRO-CLIPS
MUST NOT
TOUCH BLAST
DEFLECTOR
OR
EACH OTHER

- REMOVE SAFETY KEY to disarm the launch controller.
- Remove safety cap and slide launch lug over launch rod to place rocket on launch pad. Make sure the rocket slides freely on the launch rod.
- Attach micro-clips to the igniter wires. Arrange the clips so they do not touch each other or the metal blast deflector. Attach clips as close to protective tape on igniter as possible.
- Move back from your rocket as far as launch wire will permit, (at least 15 feet).
- INSERT SAFETY KEY to arm the launch controller. Give audible countdown... 5... 4... 3... 2... 1... **LAUNCH!!!**
- Remove safety key—Replace cap on rod.

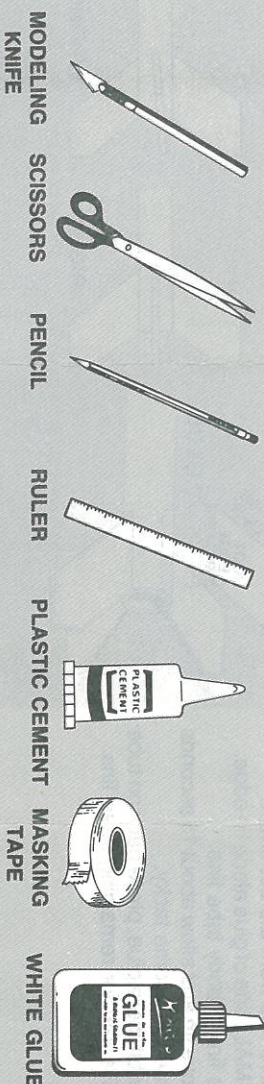


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ESTES INDUSTRIES
PENROSE, CO 81240 USA



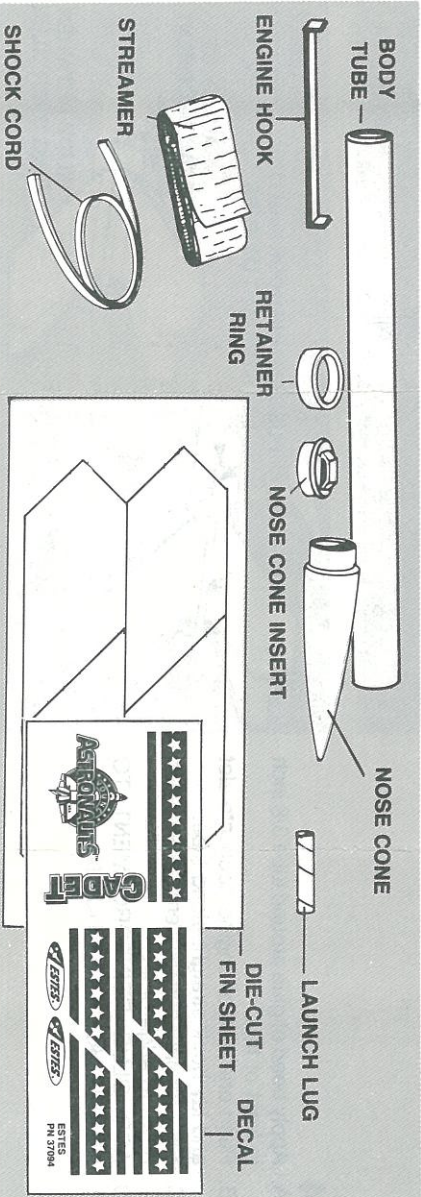
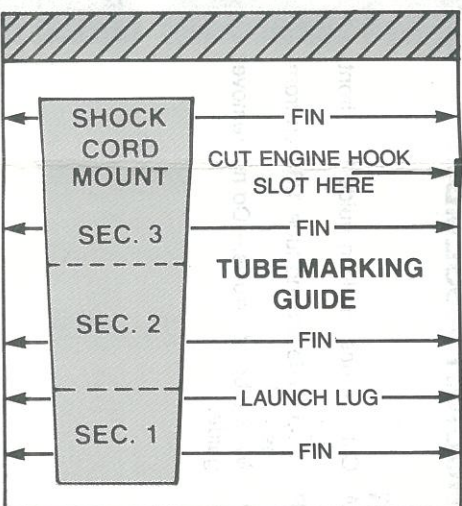
PARTS AND SUPPLIES

Locate the parts shown below and lay them out on the table in front of you. In addition to the parts included in the kit you will also need:



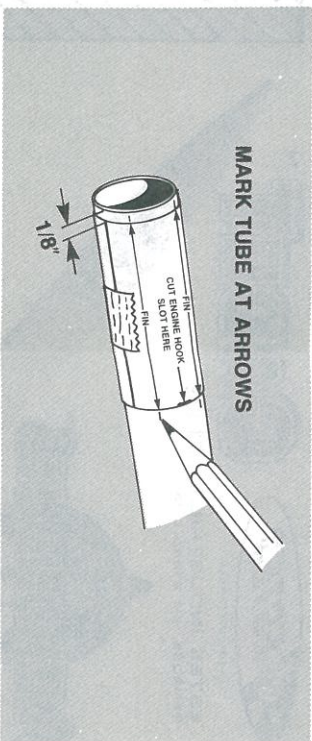
ASSEMBLY TIP

Read all instructions before beginning work on your model. Make sure you have all parts and supplies. Test-fit all parts together before applying any glue. If any parts don't fit properly, sand as required for precision assembly.

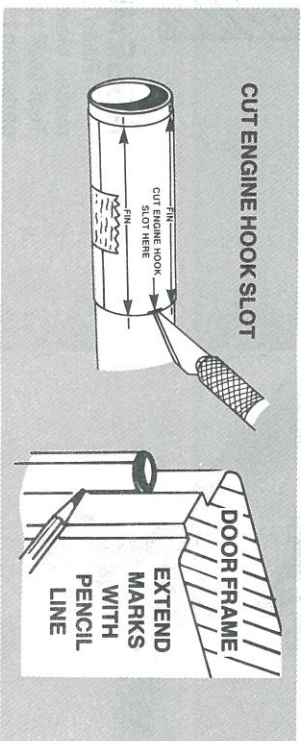


ROCKET ASSEMBLY

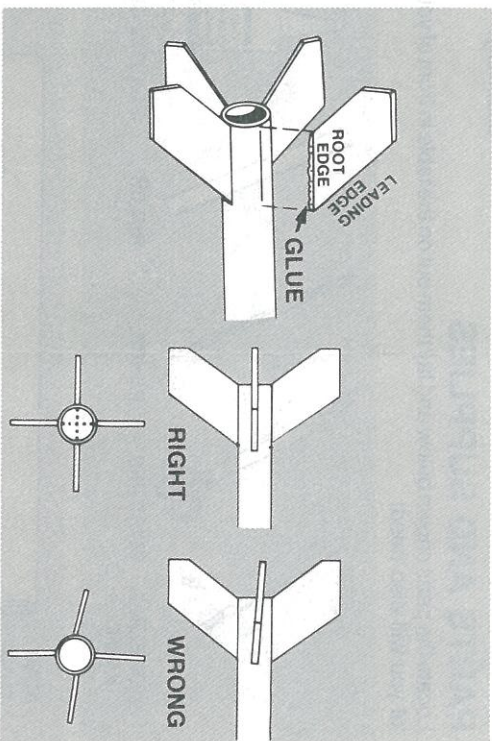
- 1 Cut out tube marking guide from front page.
B. Wrap guide around tube 1/8 inch from one end.
C. Mark tube at arrows.—Do not remove guide.



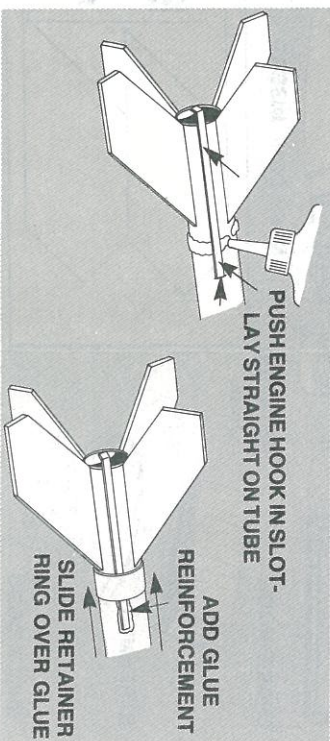
- 2 Cut 1/8 inch wide engine hook slit in tube next to mark on tube marking guide.
B. Remove guide and save for Step #7.
C. Draw 3 inch long lines for fins and 4 inch line for launch lug.



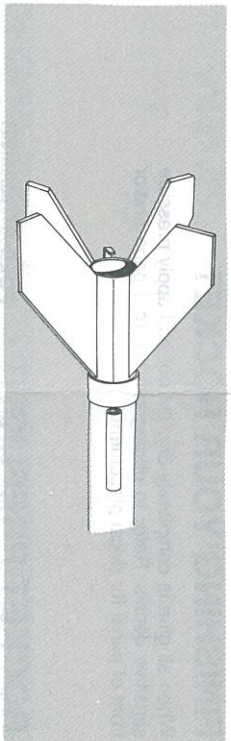
- 3 Remove fins from die-cut sheet.
A. Put SMALL line of glue along fin edge.
B. Place fin on body tube line.
C. Remove fin and allow about 15 seconds for glue to become tacky.
D. Add a bit more glue, place back on tube line. Repeat for remaining three fins.



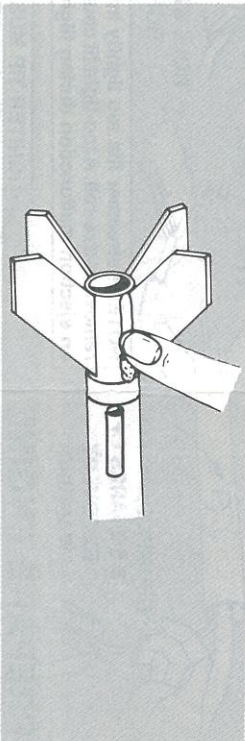
- 4 Apply bead of glue around tube 3/8 inch in front of fins.
B. Push one end of engine hook into slot and lay hook straight along tube.
C. Slide retainer ring over engine hook and down to edge of fins.
D. ADD GLUE REINFORCEMENT TO ENGINE HOOK AS SHOWN.



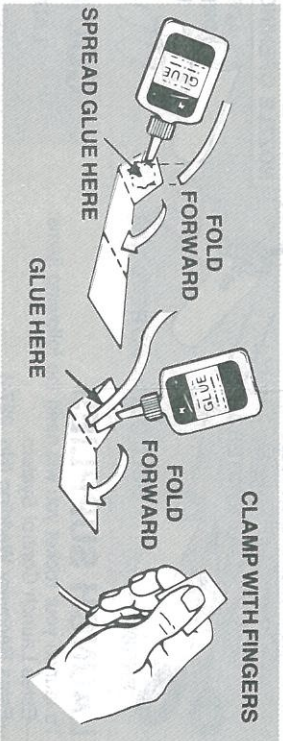
- 5 Glue launch lug straight on launch lug line with its rear edge against retainer ring.



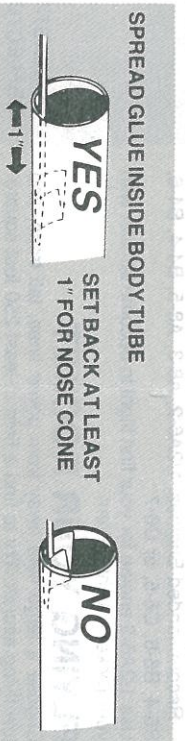
- 6 Apply a glue reinforcement to both sides of each fin/body tube joint and each side of launch lug.



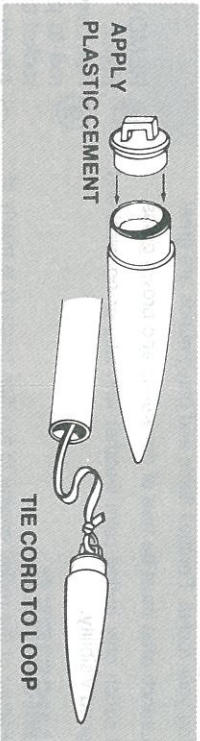
- 7 Cut shock cord mount from tube marking guide.
B. Crease on dotted lines by folding. Spread glue on section 1 and lay end of shock cord into glue. Fold over and apply glue to back of first section and exposed part of section 2. Lay shock cord as shown and fold mount over again.
C. Clamp unit together with fingers until glue sets.



- 8 Apply glue to inside front of body tube to cover an area no less than 1 inch to 2 inches from end. The glued area should be same size as shock cord mount.
B. Press mount firmly into glue as shown.
C. Hold until glue sets.



- 9 Assemble nose cone and nose cone insert with plastic cement.
B. When dry, tie free end of shock cord to nose loop with double knot.



- 10 Cut a 1 inch long piece of 3/4 inch wide masking tape.
B. Lay end of shock cord over end of streamer material as shown, and tape shock cord and streamer together.
C. Press tape down firmly to assure a strong bond.

