

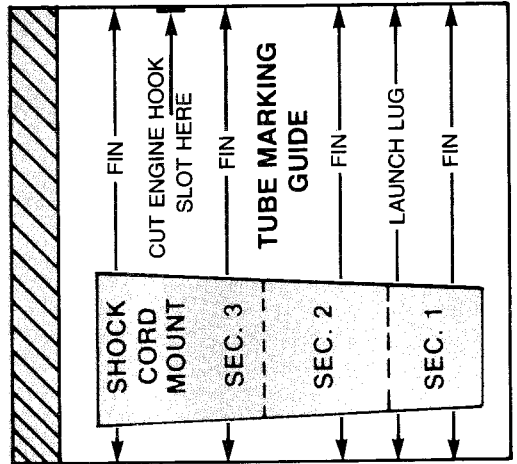


A DAMON COMPANY

ESTES INDUSTRIES
PENROSE, CO 81240 USA

RELIANT™

#1986

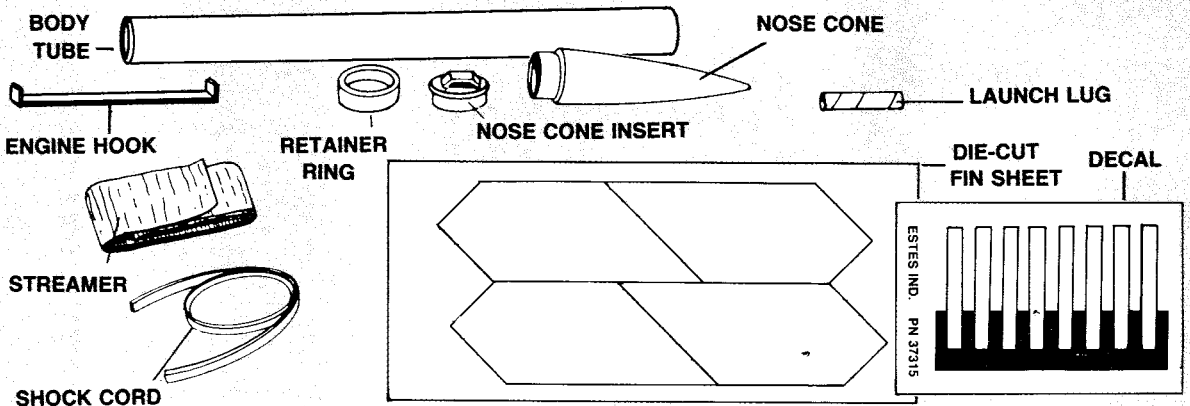
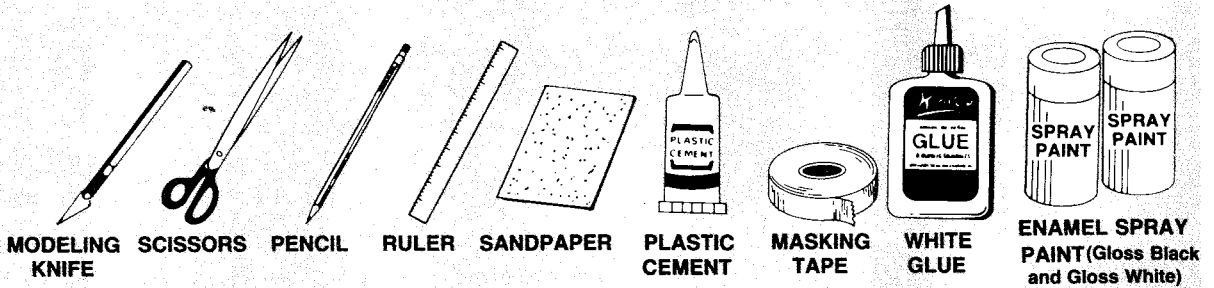


ASSEMBLY TIP

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.

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:

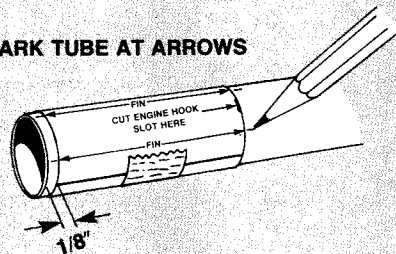


ROCKET ASSEMBLY

1

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

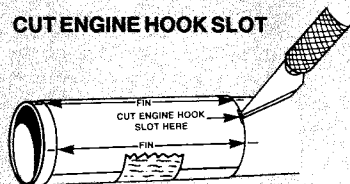
MARK TUBE AT ARROWS



2

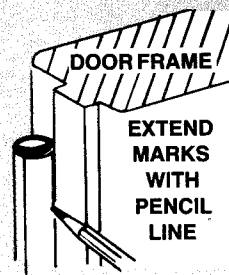
- Cut 1/8 inch wide engine hook slit in tube next to mark on tube marking guide.
- Remove guide and save for Step #7.
- Draw 3 inch long lines for fins and 4 inch line for launch lug.

CUT ENGINE HOOK SLOT



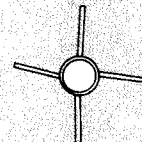
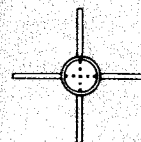
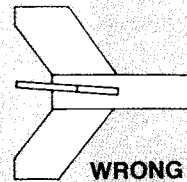
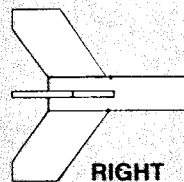
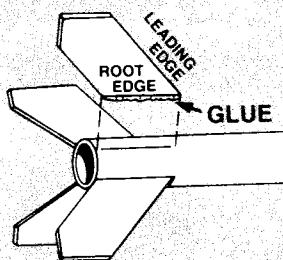
DOOR FRAME

EXTEND MARKS WITH PENCIL LINE



3

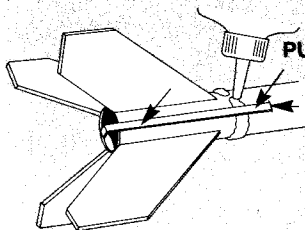
- Remove fins from die-cut sheet.
- Put **SMALL** line of glue along fin edge.
- Place fin on body tube line.
- Remove fin and allow about 15 seconds for glue to become tacky.
- Add a bit more glue, place back on tube line. Repeat for remaining three fins.



4

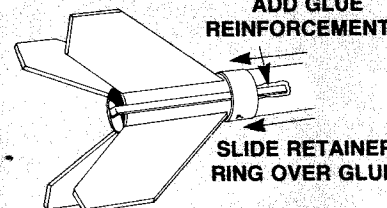
- Apply bead of glue around tube 3/8 inch in front of fins.
- Push one end of engine hook into slot and lay hook straight along tube.
- Slide retainer ring over engine hook and down to edge of fins.
- ADD GLUE REINFORCEMENT TO ENGINE HOOK AS SHOWN.**

PUSH ENGINE HOOK IN SLOT- LAY STRAIGHT ON TUBE



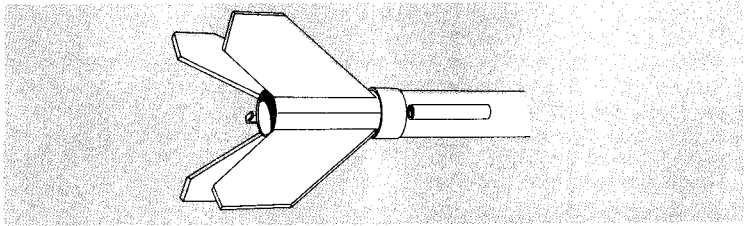
ADD GLUE REINFORCEMENT

SLIDE RETAINER RING OVER GLUE



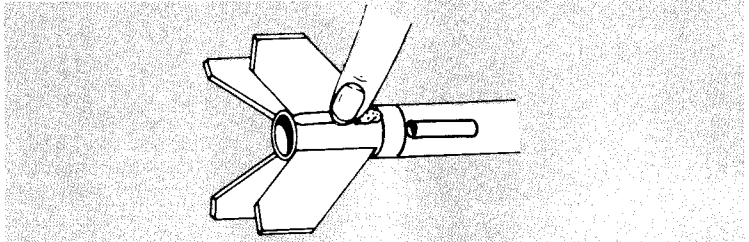
5

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



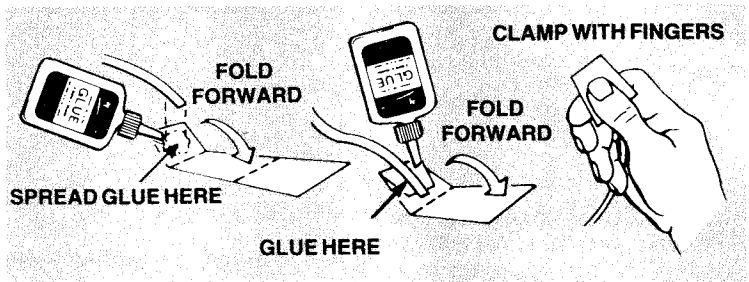
6

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



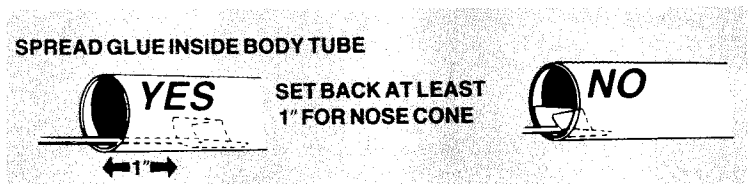
7

- A. 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.



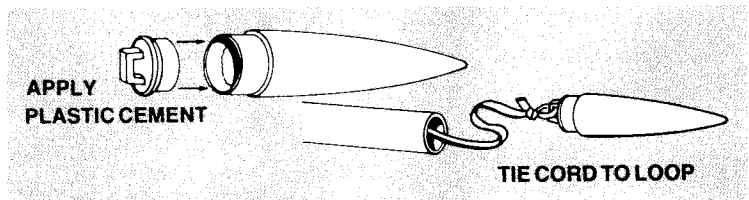
8

- A. 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.



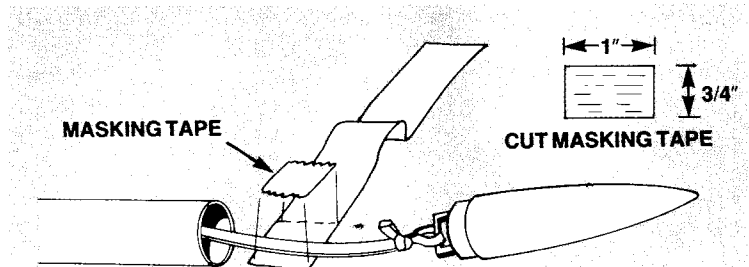
9

- A. 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

- A. 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.

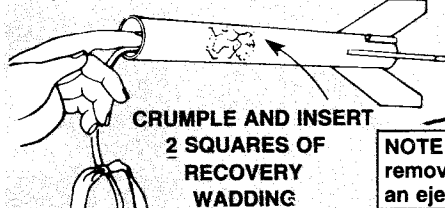


FINISHING YOUR ROCKET

When all glue is completely dry, paint model with spray enamel. Refer to photograph on front page and/or front of panel for paint locations and decal placement. Paint fins and body gloss white. When dry, mask and paint the forward end of the body tube (1 3/4 inch) gloss black. Paint the nose cone gloss black. Follow instructions on spray can for best results. Let paint dry

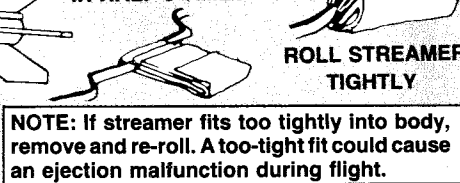
overnight before applying decal. To apply decal, dip in lukewarm water for 20 seconds and hold until it uncurls. Refer to photograph on front page and/or on front of panel for decal placement. Slip decal off backing sheet and onto model. Blot away excess water. For best results, let decals dry overnight and apply a coat of clear gloss paint to protect decals.

ROCKET PREFLIGHT



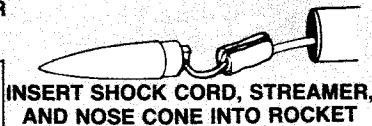
**CRUMPLE AND INSERT
2 SQUARES OF
RECOVERY
WADDING**

**FOLD STREAMER
IN HALF 6 TIMES**



**ROLL STREAMER
TIGHTLY**

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

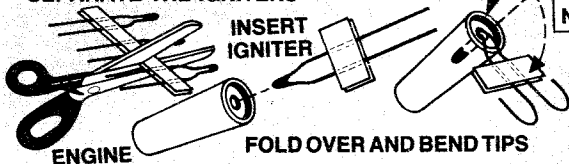


**INSERT SHOCK CORD, STREAMER,
AND NOSE CONE INTO ROCKET**

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

PREPARE ENGINE

SEPARATE THE IGNITERS

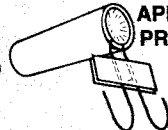


ENGINE

**INSERT
IGNITER**

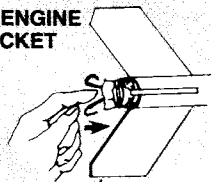
FOLD OVER AND BEND TIPS

**IGNITER TIP MUST TOUCH
PROPELLANT DEEP INSIDE
NOZZLE OPENING**



**APPLY AND FIRMLY
PRESS TAPE DISC OR
MASKING TAPE
IN PLACE**

**INSTALL ENGINE
IN ROCKET**



**HOOK MUST LATCH OVER
END OF ENGINE**

LAUNCH SUPPLIES

To launch your rocket you will need the following items:

- 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

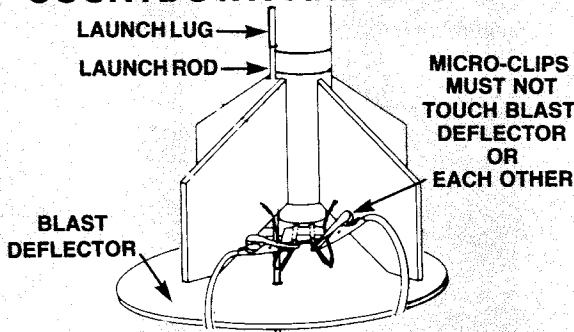
Failure of the rocket engine to function properly is nearly always caused by a failure to install the igniter correctly. This failure permits the igniter to heat and burn into two pieces without igniting the engine.

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
83902

COUNTDOWN AND LAUNCH



LAUNCH LUG

LAUNCH ROD

**MICRO-CLIPS
MUST NOT
TOUCH BLAST
DEFLECTOR
OR
EACH OTHER**

**BLAST
DEFLECTOR**

- ⑩ REMOVE SAFETY KEY to disarm the launch controller.
- ⑨ 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.
- ⑧ 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.
- ⑦ Move back from your rocket as far as launch wire will permit, (at least 15 feet).
- ⑥ INSERT SAFETY KEY to arm the launch controller. Give audible countdown. . .5. . .4. . .3. . .2. . .1. . .

LAUNCH!!!

Remove safety key—Replace cap on rod.

2014年

12月

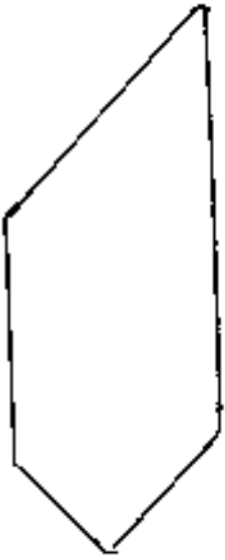
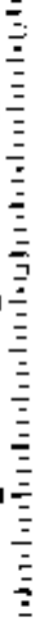
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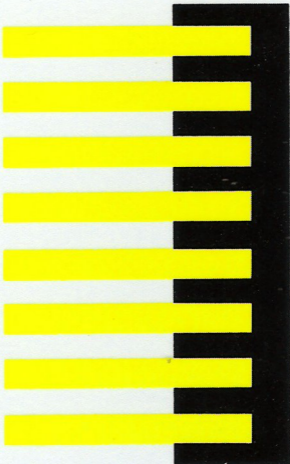
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ESTES IND. PN 37315