



# Scout<sup>TM</sup> III

**SKILL LEVEL 1**

For the Beginning Modeler.

## FLYING MODEL ROCKET

■ **UPDATE OF VERN  
ESTES' 1959 MODEL**

- Break-Apart Recovery
- Balsa Nose Cone
- Pre-Cut Balsa Fins
- Engine Hook

Length: 7.5 in. (19.1 cm)

Dia.: 0.763 in. (19.4 mm)

Weight: .389 oz. (11 g)

Recommended Engines:

1/2A3-4T (First Flight),

A3-4T, or A10-3T



A DAMON COMPANY

**600 FOOT  
FLIGHTS!**

#0878



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**MADE IN USA**

This is a model kit requiring assembly. Glue and finishing supplies, launch system and engines for flight are not included.



ESTES INDUSTRIES  
1295 H Street  
Penrose, CO 81240 USA

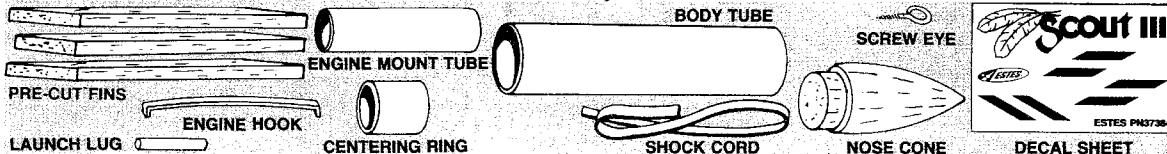


# ASSEMBLY TIP

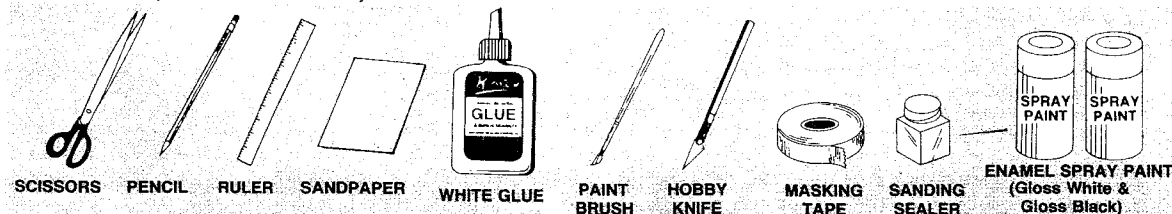
Read all instructions before beginning work on your model. Make sure you have all parts and supplies. Test-fit all parts together before applying any glue. If any parts don't fit properly, sand as required for precision assembly.

## 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:



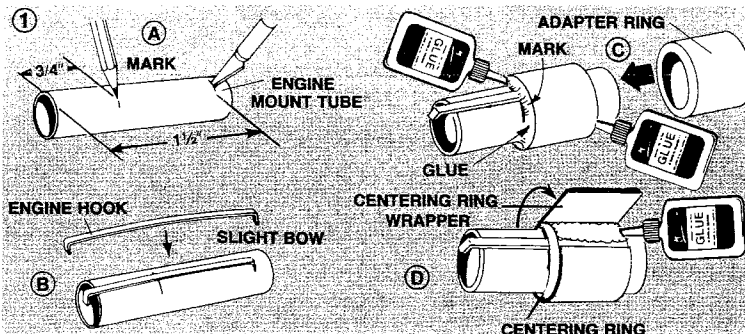
## ROCKET ASSEMBLY

- A. Mark engine mount tube 3/4 inch and 1 1/2 inches from one end. Then cut 1/8 inch long slit at 1 1/2 inch mark.

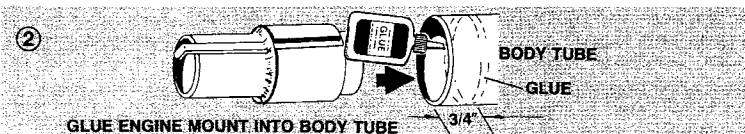
B. Insert one end of engine hook into slit.

C. Slide adapter ring onto tube as shown to the 3/4 inch mark, and then glue both ends of ring to tube.

D. Cut out the centering ring wrapper from the other side of these instructions. Spread a thin, even covering of glue over the centering ring and apply the wrapper. Let the assembly dry several minutes.

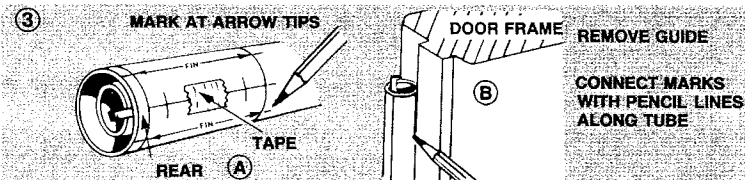


- A. Apply a line of glue around inside of one end of body tube as shown. Push engine mount into tube until tube ends are even.



- A. Cut out tube marking guide from back of this sheet. Wrap guide around the tube and tape. Mark tube at arrows. Remove guide.

B. Draw straight lines connecting each pair of marks. Extend the lines the length of the tube.



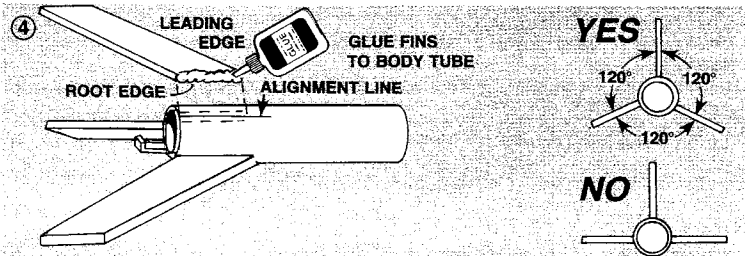
- A. Lay fins on pattern to find front (leading) and gluing (root) edges.

B. Position and glue fins on alignment lines, one at a time. Let each dry several minutes before applying the next one.

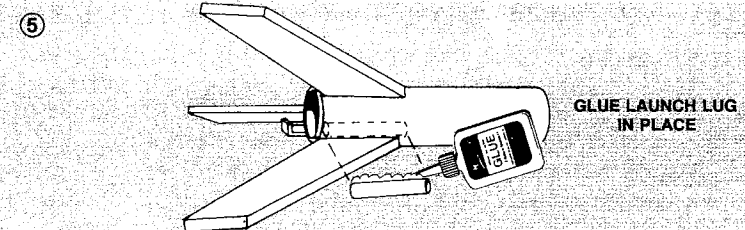
C. Adjust fins to project straight out from tube.

D. Do not set rocket on fins while glue is wet.

**FINS MUST BE ATTACHED CORRECTLY FOR STABLE FLIGHT!**

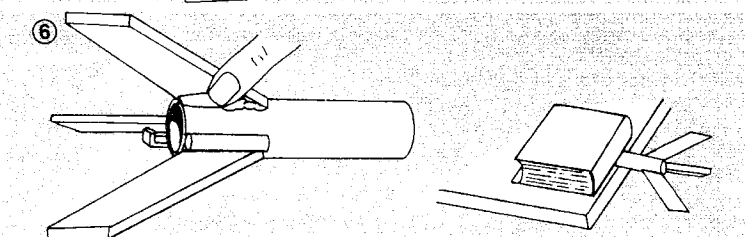


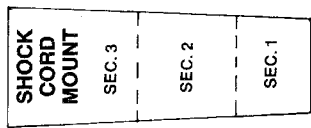
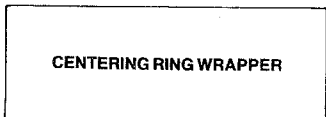
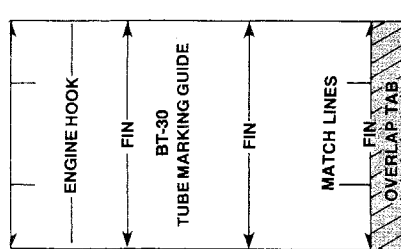
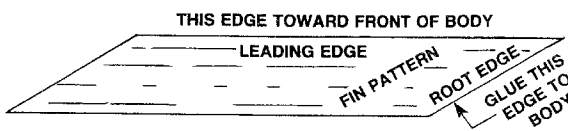
- A. Glue the launch lug along a fin/body joint as shown.



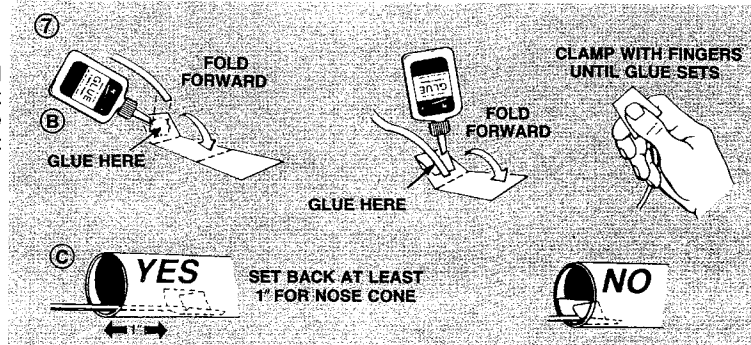
- A. Apply a glue reinforcement to both sides of each fin/body tube joint and each side of launch lug.

B. Support rocket as shown until glue dries.

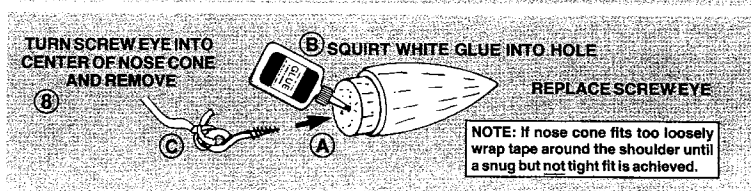




- 7.**
- Cut shock cord mount from instruction.
  - Crease on dotted lines by folding. Spread glue on section 1 and lay end of shock cord into glue. Fold over and apply glue to back of first section and exposed part of section 2. Lay shock cord as shown and fold mount over again.
  - Apply glue to inside front of body tube to cover an area no less than 1 inch from the end. The glued area should be same size as shock cord mount. Press mount firmly into glue as shown. Hold until glue sets.



- 8.**
- Turn screw eye into center of nose cone shoulder and remove.
  - Squirt glue into hole and replace screw eye.
  - Tie end of shock cord to screw eye.
  - Insert shock cord and nose cone into rocket.

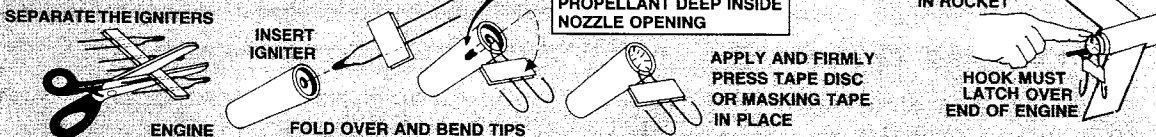


## FINISHING YOUR ROCKET

Apply sanding sealer to wood parts with small brush. When sealer is dry, lightly sand all sealed surfaces. Repeat sealing and sanding until balsa grain is filled and smooth. When sanding sealer and glue are completely dry, paint model with spray enamel. Use photo or panel as guide to painting. Follow instructions on spray can for best results. Allow the paint to dry overnight.

To apply decals, cut each out, 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 spray paint to protect decals.

## PREPARE ENGINE



## LAUNCH SUPPLIES

To launch your rocket you will need the following items:

- Estes Electrical Launch System and Launch Pad
- Estes Recovery Wadding No. 2274
- Recommended Estes Engine: 1/2A3-2T, 1/2A3-4T, A3-4T, or A10-3T.

Use 1/2A3-4T engine for first flight to become familiar with your rocket's flight pattern. Use only Estes products to launch this rocket.

## 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 model rocket engine to ignite is nearly always caused by incorrect igniter installation. An Estes igniter will function properly even if the coated tip is chipped. However, if the coated tip is not in direct contact with the engine propellant, it will only heat and not ignite the engine.

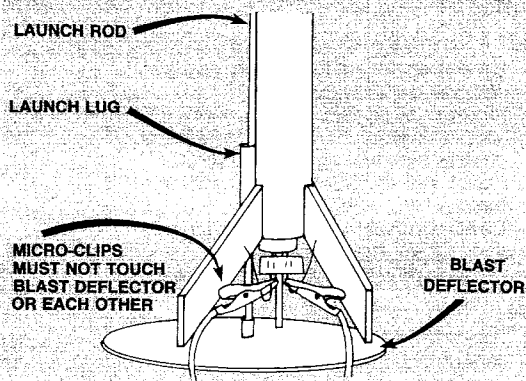
When an ignition failure occurs, remove the safety key from the launch control system and wait one minute before approaching the rocket. Remove the expended igniter from the engine and install a new one. Be certain the coated tip is in direct contact with the engine propellant, then tape the igniter leads firmly to base of engine as illustrated above. Repeat the countdown and launch procedure.

## 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

## COUNTDOWN AND LAUNCH



- REMOVE SAFETY KEY to disarm the launch controller.
- Remove safety cap and slide launch lugs 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!!** PUSH AND HOLD LAUNCH BUTTON UNTIL ENGINE IGNITES  
Remove safety key—Replace cap on launch rod.





**Scout III**<sup>TM</sup>



**ESTES PN37384**

