



ESTES INDUSTRIES  
1295 H Street  
Penrose, CO 81240

(10-97) 82202

EST 2154

**BETA**<sup>TM</sup>  
**SERIES**  
SKILL LEVEL 1

# WILDFIRE<sup>TM</sup>

FLYING MODEL ROCKET KIT INSTRUCTIONS

## MATERIALS REQUIRED:

PENCIL, HOBBY SAW, RULER, HOBBY KNIFE, WHITE OR YELLOW GLUE, 3/4" (19 mm) MASKING TAPE, SANDPAPER, AUTOMOTIVE PRIMER, RED AND BLACK GLOSS SPRAY PAINT

ALL GLUED AREAS ARE SHADED IN GRAY

BE SURE TO READ ALL INSTRUCTIONS, TEST FIT ALL PARTS, AND SAND IF NECESSARY BEFORE GLUING.

### PARTS LAYOUT

DECAL (1) ✓  
37756

DIE CUT BALSA FIN SHEET (1) ✓  
32105

NOSE CONE  
50BB (1)  
✓71027

TAIL CONE  
NOT USED

SLOTTED BODY  
TUBE #BT-50 (1)  
31168

SHOCK CORD 1/8 x 12  
38373 ✓

LAUNCH LUG  
LL2A (1)  
✓38175

GREEN ADAPTER  
RINGS #2050 (2)  
✓30164-2

STREAMER 1-3/16 X 18 (1)  
38272

BLUE ENGINE  
MOUNT TUBE 20J (1)  
30326-1 ✓

ENGINE HOOK  
EH-2A (1)  
35021 ✓

ASSEMBLED PARACHUTE - 12 (1)  
35801 ✓

### 2.

A. Insert the engine hook into the slit as shown.

B. Slide one of the 1/2" (13 mm) rings through the grommet as just see 1

### 3.

A. Use a hobby knife to carefully cut fins out of balsa sheets. (Always cut away from other fins to avoid damage.) Be sure cuts go all the way through the balsa, then remove fins.

### 4.

A. Lightly draw a straight line down the length of the tube centered between two fin slots. This is your launch lug line. **NOTE:** A door frame can be used to do it but we recommend the Estes® Rocket Builder's Marking Guide (EST 302227)

DOOR FRAME

END VIEW

CENTERED BETWEEN TWO SLOTS

### 1.

A. Mark the blue engine mount tube at 1/2" (13 mm) and at 2-1/2" (6.4 cm).

B. Use a hobby knife to make a 1/8" (3 mm) wide slit at the 2-1/2" (6.4 cm) mark only.

1/2" (13 mm)

2-1/2" (6.4 cm)

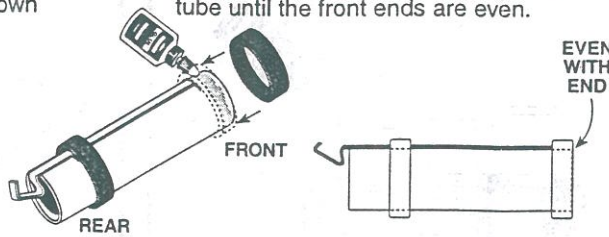
1/8" (3 mm)

2-1/2" (6.4 cm)

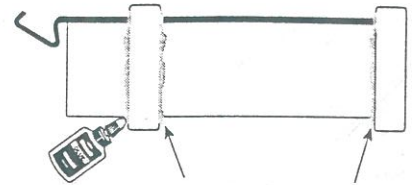
Apply a band of glue just in front of the mark, then slide the ring down until you reach the mark.



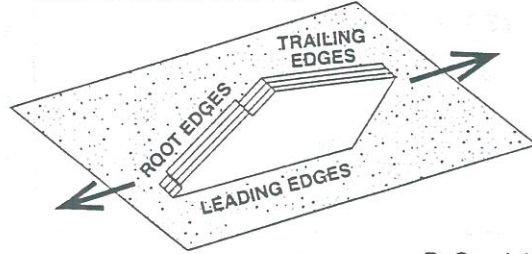
C. Apply glue around front end of tube and slide the remaining adapter ring onto the tube until the front ends are even.



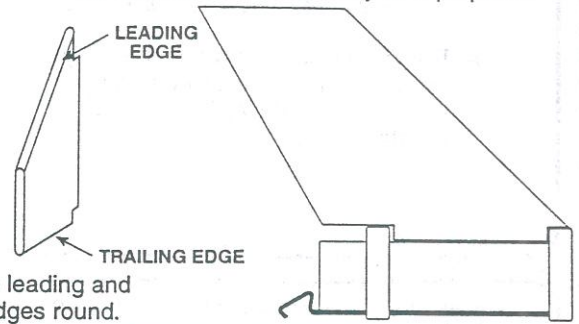
D. Once rings are in place, bead glue where shown and smooth with your finger. Let assembly dry thoroughly.



C. Lay sandpaper, rough side up, on table. Stack fins together and lightly sand the edges smooth and flat. DO NOT SAND AWAY TABS ON ROOT EDGES.



E. Test fit all the fins to make sure they fit between the centering rings and that the tabs contact the tube. Sand as necessary for a proper fit.



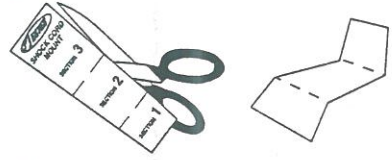
B. Keep a stick of scrap balsa to use as a glue applicator.



D. Sand the leading and trailing edges round.

# 5.

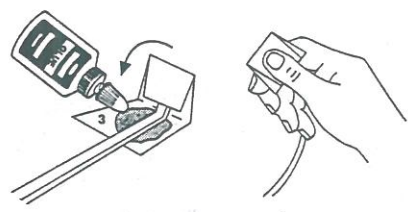
A. Cut out shock cord mount below along solid lines. Crease on dotted lines.



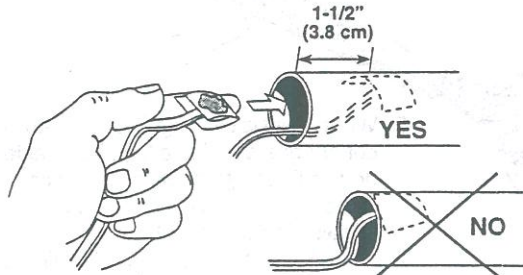
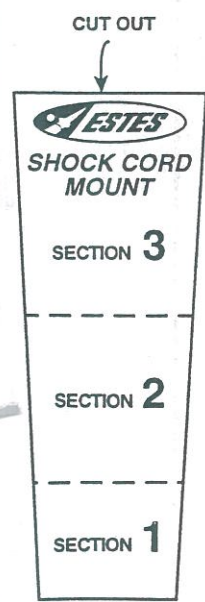
B. Spread glue on section 2 and lay shock cord into glue at a slight angle as shown. Fold forward.



C. Apply glue to section 3. Fold forward again. Clamp firmly until glue sets.

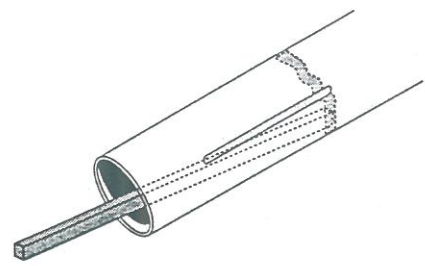


D. Glue the shock cord mount about 1-1/2" (3.8 cm) down inside the front end (without slots) of the body tube, and press firmly into place. Let dry.



# 6.

A. Using your wood stick, apply glue inside the body tube near the front of the slots as shown.



B. Apply glue to the rear adapter ring and slide the engine mount into the body tube until the tube ends are even. BE SURE TO ALIGN THE ENGINE HOOK WITH THE LAUNCH LUG LINE.

