

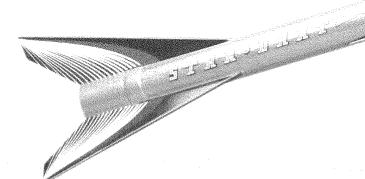
www.estesrockets.com

Estes Industries 1295 H Street Penrose, CO 81240 Printed In China



FLYING MODEL ROCKET KIT KEEP FOR FUTURE REFERENCE

**EST 2170** 



### **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.

### SUPPLIES

In addition to the parts included in the kit you will also need:



























RULER

CARPENTER'S MODELING GLUE KNIFE

WHITE PAINT PEN

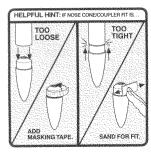
PLASTIC CEMENT

PRIMER

SPRAY PAINT: PURPLE, DARK PURPLE & BLACK OR YELLOW, ORANGE & DARK BLUE

MASKING TAPE

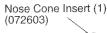
OPTIONAL: WHITE 1/32" (1mm) PIN STRIPE SAND PAPER (#400-600 Grit)



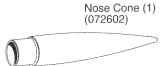
#### **PARTS**

Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.







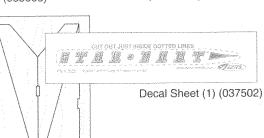




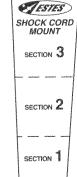
Yellow Spacer Tool (1) (035003)



Green Engine Block (1) (030162-2)

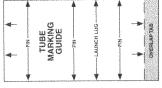


Die-cut Balsa Sheet (1) (032240)



Engine Retainer Ring - Mylar (1) (030168)

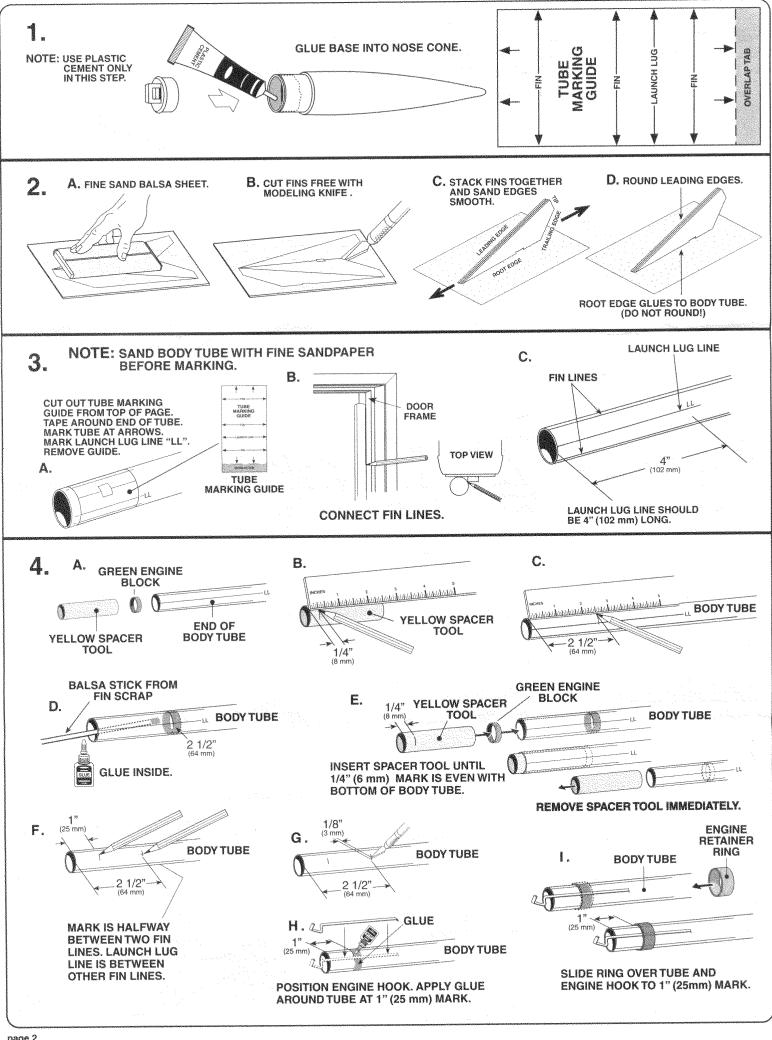


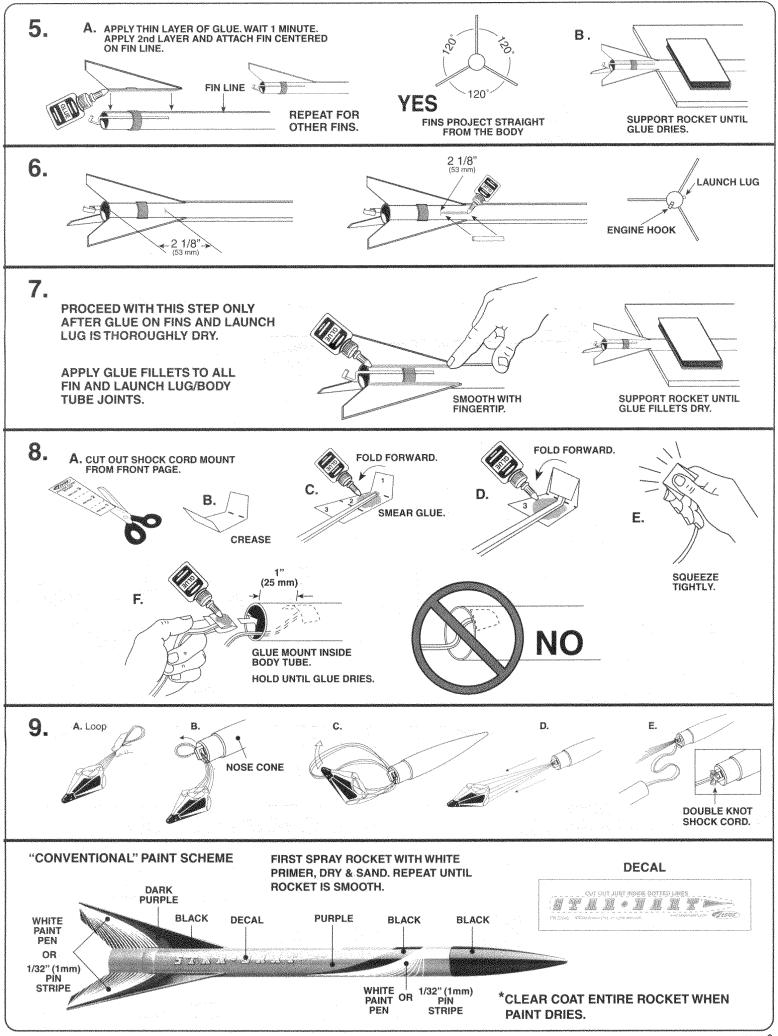


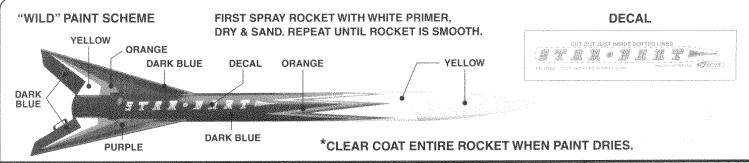
Tube Marking Guide (1) (on page 2)

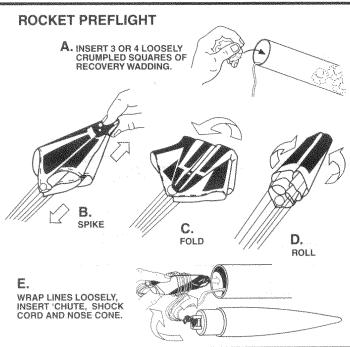


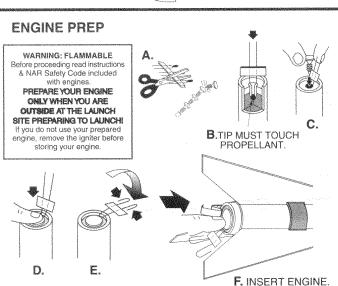
w/ Engine Hook and Shock Cord (1) (035804) Shock Cord Mount (1)











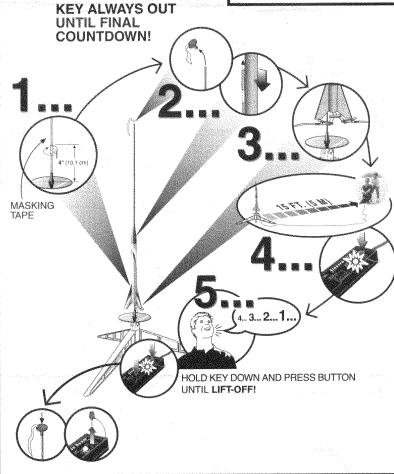
### COUNTDOWN AND LAUNCH



#### LAUNCH SUPPLIES

(Sold Separately)

- Estes® Porta Pad® II and Electron Beam® Controller
- \* Recovery Wadding
- · Igniters (w/ Engines)
- Igniter Plugs (w/ Engines)
- Estes® 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. [76 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! 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.



