

www.estesrockets.com

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

# 

## FLYING MODEL ROCKET KIT

KEEP FOR FUTURE REFERENCE

## **ASSEMBLY TIP**

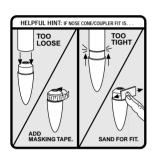
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING

ANY GLUE. If any parts don't fit properly, sand as required for precision assembly.

## **PARTS**

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.

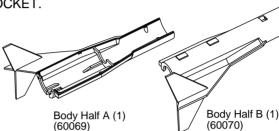


Engine Mount Tube (1)

 $(31\overline{1}74)$ 



Nose Cone Insert (1) (60068)



FREARY FLYER

Launch Lug (1) (60071)

**EST 1203** 

Clav (1) 8570<sup>4</sup>)



Retainer Ring (1) (30167)



Engine Hook (1) (35023)



Streamer (1) (60034)



Decal Sheet (1) (60073)

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



PLASTIC



CARPENTER'S



MODELING KNIFF



PENCIL



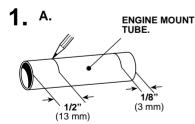
SAND PAPER (#400-600 GRIT)



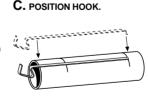
RULER

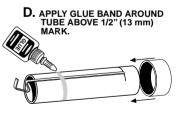


MASKING TAPE



B. 1/8" (3 mm) CUT 1/8" (3 mm) SLIT AT 1/8" (3 mm) MARK.





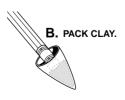
E. SLIDE RETAINER RING ONTO GLUE BAND DOWN TO MARK.

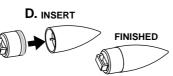


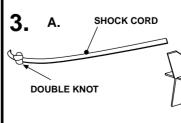










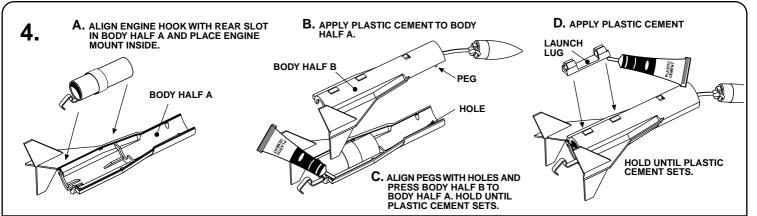




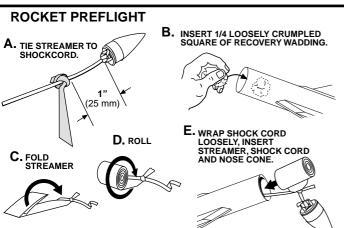
C. TIE SHOCK CORD TO NOSE CONE.



BODY HALF B.



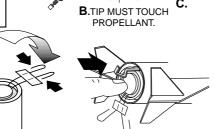
#### FINISH YOUR ROCKET **USE PACKAGE PANEL FOR DECAL PLACEMENT**



# **ENGINE PREP** WARNING: FLAMMABLE

Before proceeding read instructions & NAR Safety Code included with engines. PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!





F. INSERT ENGINE

#### COUNTDOWN AND LAUNCH



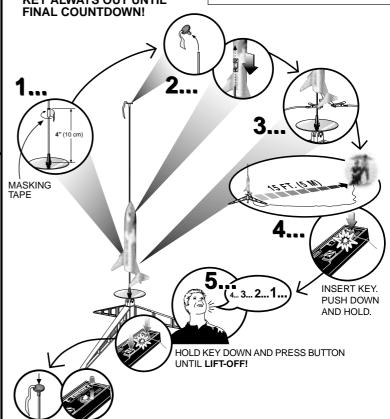
**KEY ALWAYS OUT UNTIL** 

## **LAUNCH SUPPLIES**

(Sold Separately)

- Estes® Porta Pad® II Launch Pad and Electron Beam® Controller
- Recovery Wadding
- Igniters (with Engines)
- Igniter Plugs (with Engines)
- Estes® Engines:

1/4A3-3T, 1/2A3-4T, A3-4T (First Flight) A10-3T



# PRECAUTIONS















NO DRY GRASS OR WEEDS

# FLYING YOUR ROCKET

Choose a large field (250 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) SAFÉTY 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.