



www.estesrockets.com

ESTES INDUSTRIES  
1295 H Street  
Penrose, CO 81240  
PRINTED IN CHINA

# X-15<sup>®</sup>

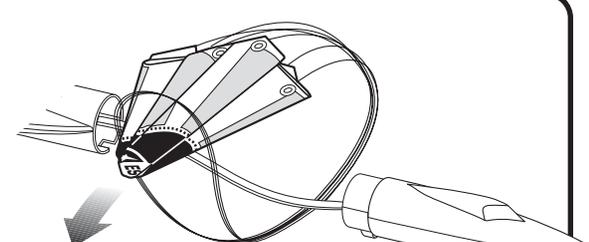
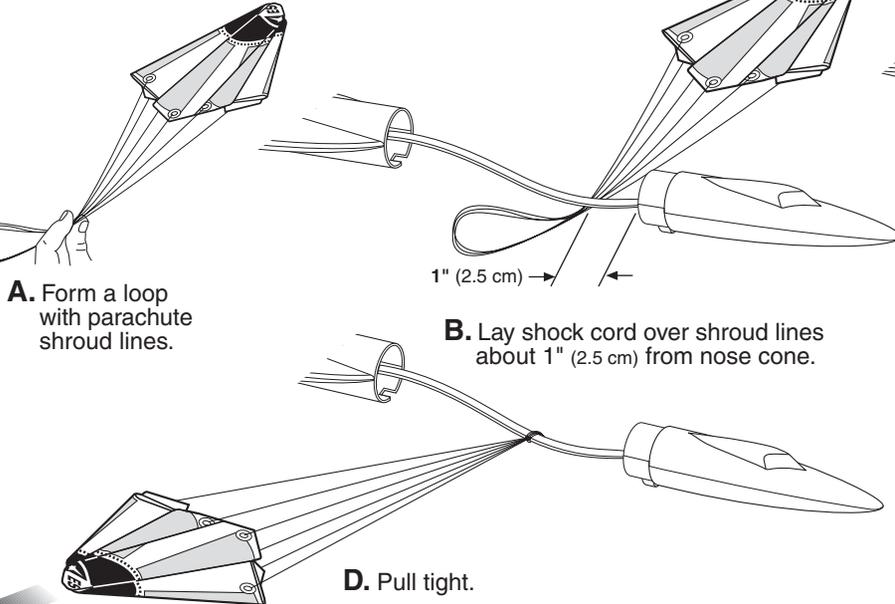
## ROCKET PLANE

FLYING MODEL ROCKET KIT INSTRUCTIONS  
KEEP FOR FUTURE REFERENCE



#1890

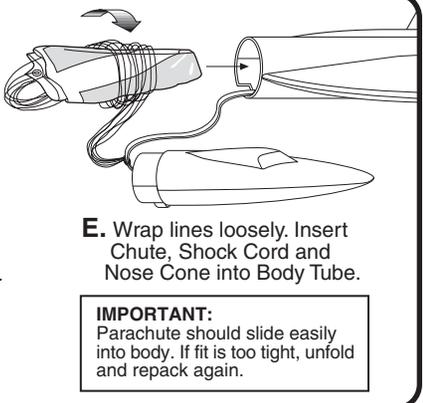
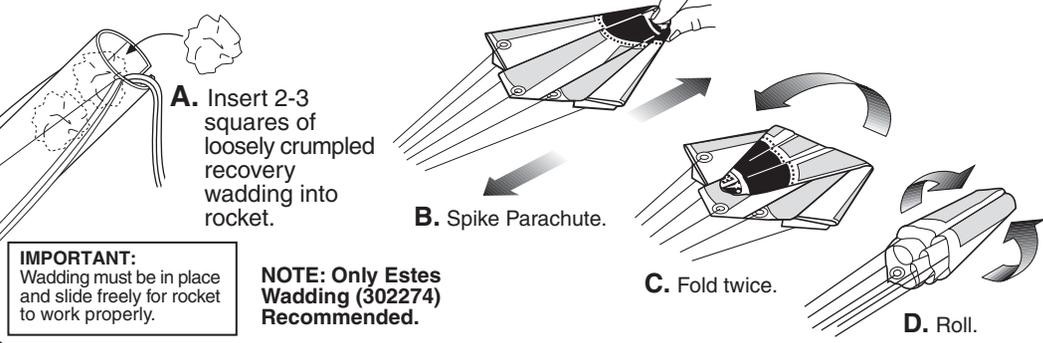
### 1. ATTACH PARACHUTE



**HELPFUL HINT: IF NOSE CONE/COUPLER FIT IS...**

<b>TOO LOOSE</b>	<b>TOO TIGHT</b>
<b>ADD MASKING TAPE.</b>	<b>SAND FOR FIT.</b>

### 2. PREPARE PARACHUTE FOR FLIGHT

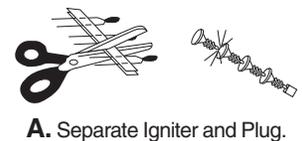


**IMPORTANT:** Wadding must be in place and slide freely for rocket to work properly.

**NOTE: Only Estes Wadding (302274) Recommended.**

**IMPORTANT:** Parachute should slide easily into body. If fit is too tight, unfold and repack again.

### 3. PREPARE ENGINE

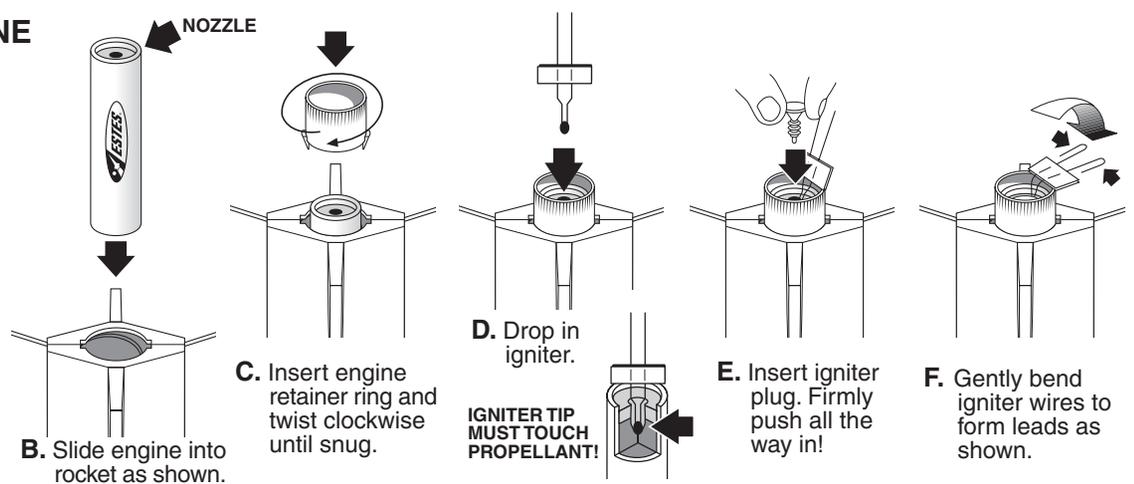


**⚠ WARNING: FLAMMABLE**

To avoid serious injury, read instructions & NAR Safety Code included with engines.

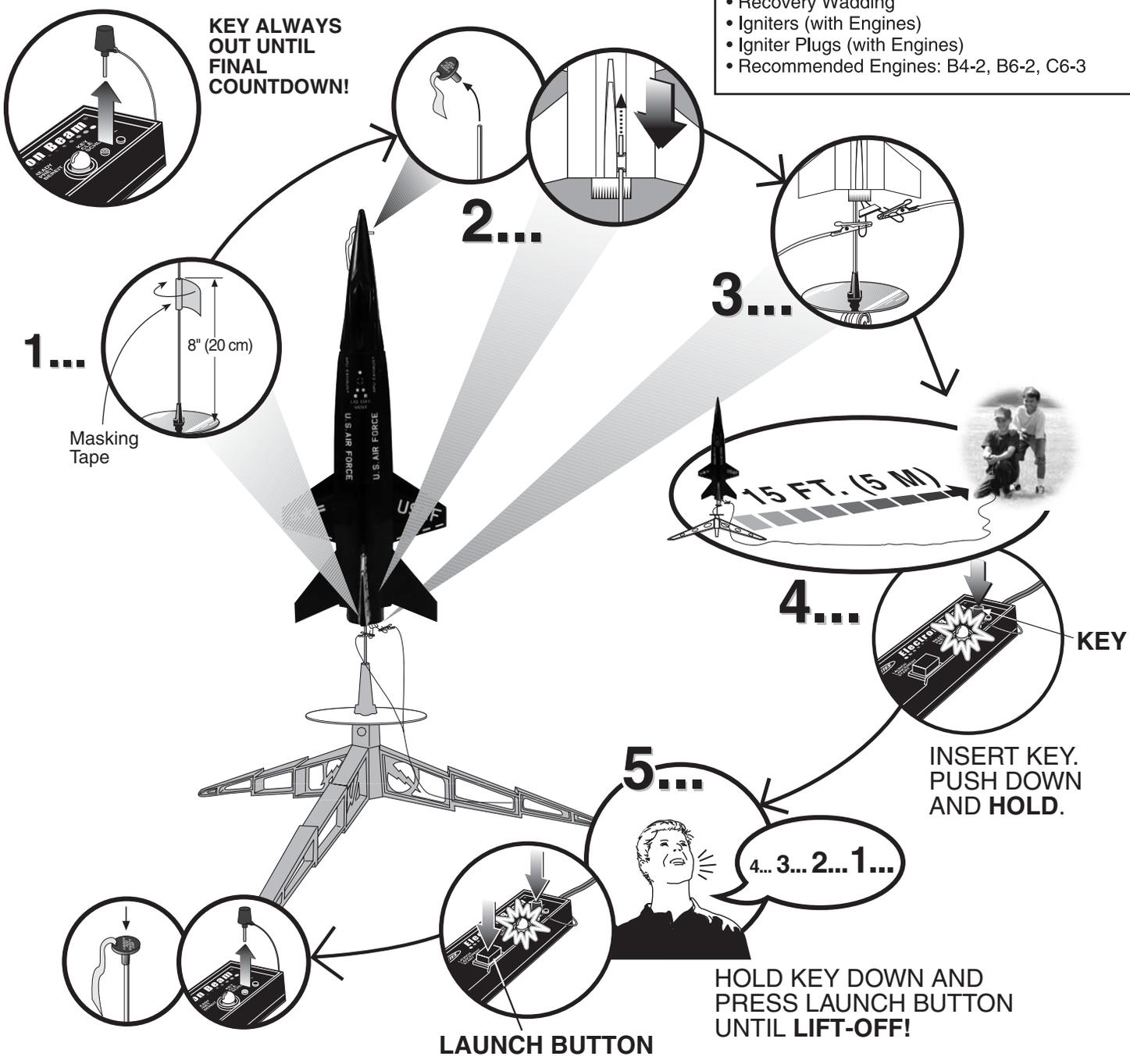
**PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!**

If you do not use your prepared engine, remove the igniter before storing your engine.



# COUNTDOWN AND LAUNCH

- ESTES LAUNCH SUPPLIES** (Sold Separately)
- Porta Pad® II Launch Pad
  - Electron Beam® Launch Controller
  - Recovery Wadding
  - Igniters (with Engines)
  - Igniter Plugs (with Engines)
  - Recommended Engines: B4-2, B6-2, C6-3



## PRECAUTIONS

NAR Safety Code

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NO DRY GRASS OR WEEDS

## FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better the 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!** Disconnect the igniter clips. 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.