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1295 H Street  
Penrose, CO 81240  
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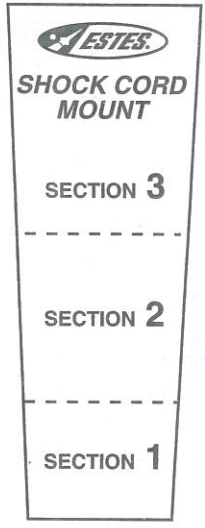
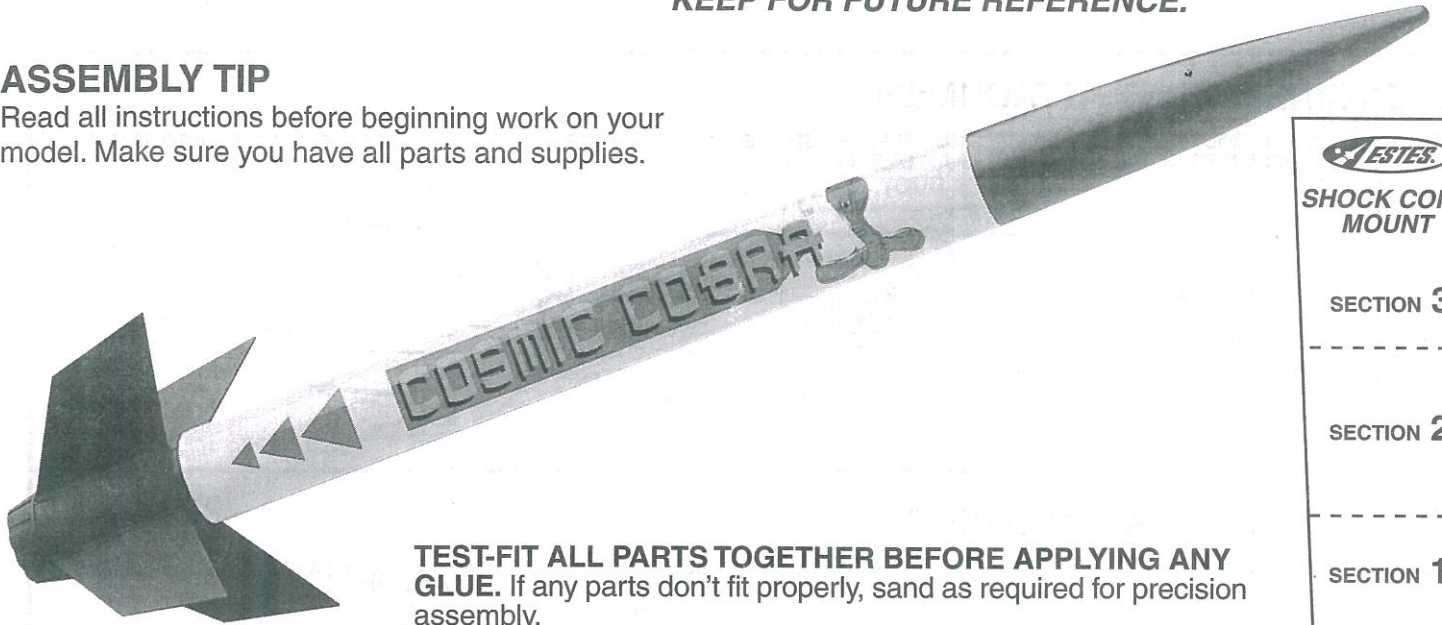
# COSMIC COBRA™

## FLYING MODEL ROCKET KIT

KEEP FOR FUTURE REFERENCE.

### ASSEMBLY TIP

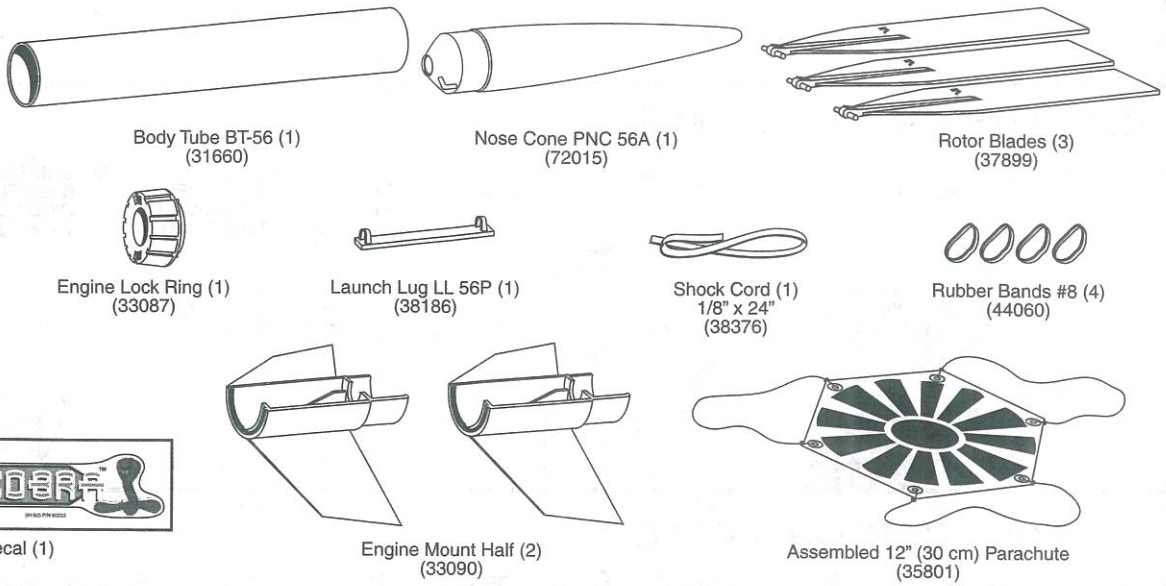
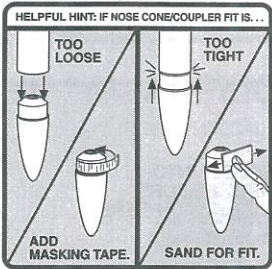
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.



**TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE.** If any parts don't fit properly, sand as required for precision assembly.

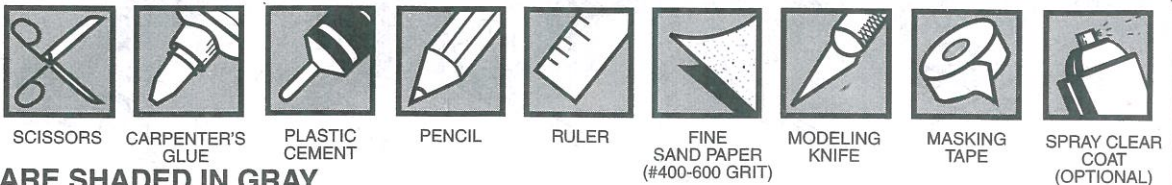
### PARTS:

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.**



### SUPPLIES

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

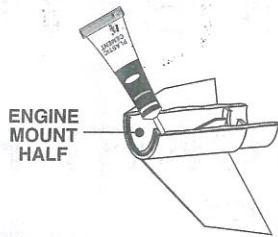


**ALL GLUED AREAS ARE SHADED IN GRAY**

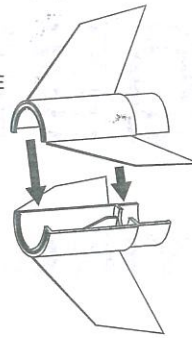


## 1. ENGINE MOUNT PREP

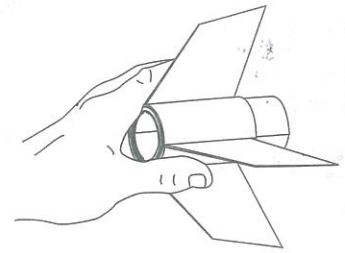
A. APPLY PLASTIC CEMENT TO ONE ENGINE MOUNT HALF AS SHOWN.



B. ALIGN PEGS WITH HOLES AND PRESS SECOND ENGINE MOUNT HALF TO FIRST ENGINE MOUNT HALF.

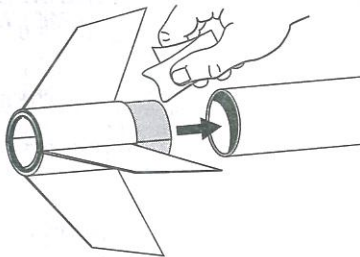


C. HOLD UNTIL PLASTIC CEMENT SETS.

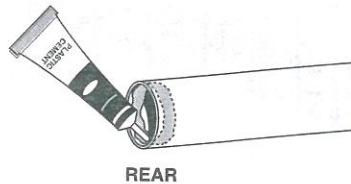


## 2. ENGINE MOUNT ATTACHMENT

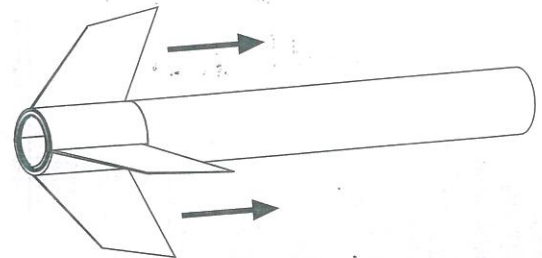
A. TEST-FIT ENGINE MOUNT INTO REAR OF BODY TUBE. SAND IF FIT IS TOO TIGHT.



B. APPLY PLASTIC CEMENT INSIDE REAR OF BODY TUBE.

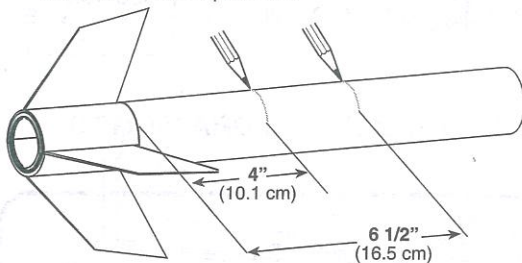


C. INSERT ENGINE MOUNT INTO REAR OF BODY TUBE.

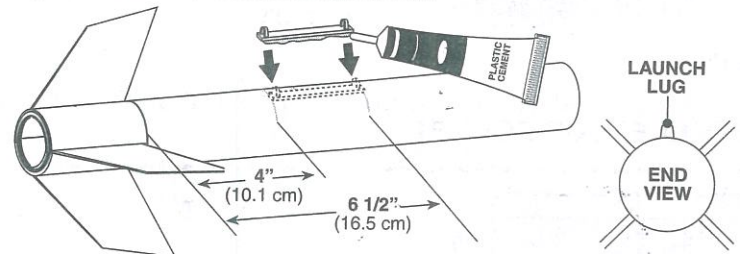


## 3. LAUNCH LUG ATTACHMENT

A. MARK TUBE AS SHOWN.

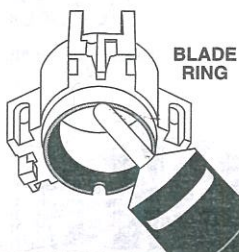


B. GLUE LAUNCH LUG TO BODY TUBE BETWEEN 4" (10.1 cm) AND 6 1/2" (16.5 cm) MARKS. LAUNCH LUG SHOULD BE CENTERED BETWEEN FINNS.

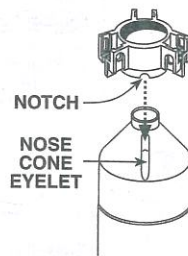


## 4. BLADE RING ATTACHMENT

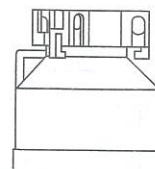
A. APPLY PLASTIC CEMENT TO BEVELED SURFACE OF BOTTOM OF BLADE RING.



B. ALIGN NOTCH WITH NOSE CONE EYELET AND INSTALL RING.



C. BE SURE RING IS ON STRAIGHT BEFORE CEMENT DRIES. ALLOW ASSEMBLY TO DRY BEFORE PROCEEDING ANY FURTHER.

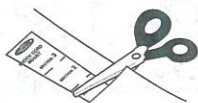


D. SLIDE ASSEMBLY INTO BODY TUBE TO BE SURE RING DOES NOT INTERFERE WITH TUBE WALLS.



## 5. SHOCK CORD ATTACHMENT

A. CUT OUT SHOCK CORD MOUNT FROM FRONT PAGE.



B. FOLD FORWARD.



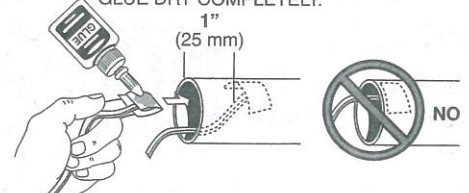
C. FOLD FORWARD.



D. SQUEEZE TIGHTLY AND HOLD FOR ONE MINUTE.

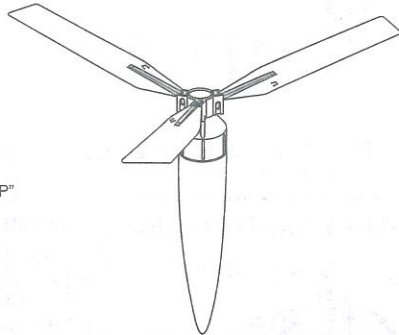
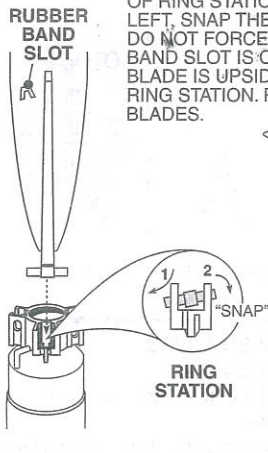


E. GLUE MOUNT 1" (25 mm) INSIDE BODY TUBE. HOLD UNTIL GLUE SETS. LET GLUE DRY COMPLETELY.

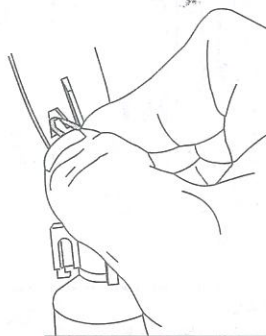


## 6. BLADE ATTACHMENT

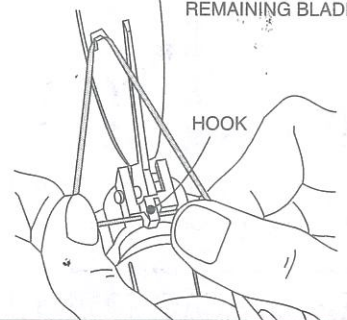
**A.** SLIDE LEFT SIDE PIN INTO HOLE ON THE LEFT "EAR" OF RING STATION. WHILE GENTLY PUSHING TO THE LEFT, SNAP THE RIGHT SIDE PIN DOWN INTO ITS HOLE. DO NOT FORCE THE BLADE IN. BE SURE THE RUBBER BAND SLOT IS ON THE LEFT SIDE AS SHOWN. IF THE BLADE IS UPSIDE DOWN, IT WILL NOT GO INTO THE RING STATION. REPEAT STEP FOR THE REMAINING BLADES.



**B.** INSERT ONE RUBBER BAND THROUGH RUBBER BAND SLOT AS SHOWN.



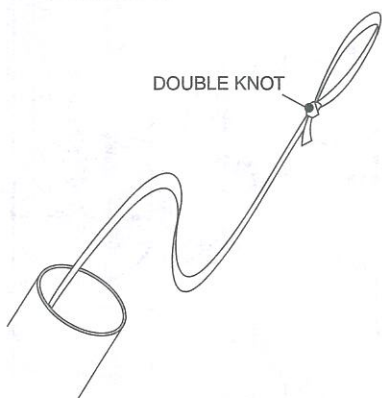
**C.** STRETCH RUBBER BAND DOWN, FASTEN IT UNDER THE HOOK AND RELEASE. REPEAT STEPS "B" AND "C" FOR REMAINING BLADES.



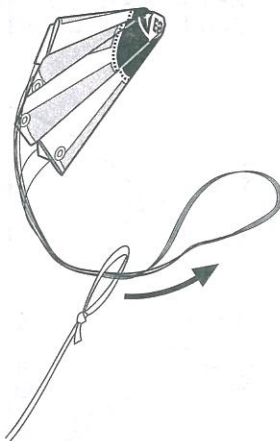
**BE CAREFUL NOT TO POINT RUBBER BAND AT YOUR EYES WHILE COMPLETING THESE STEPS.**

## 7. PARACHUTE ATTACHMENT

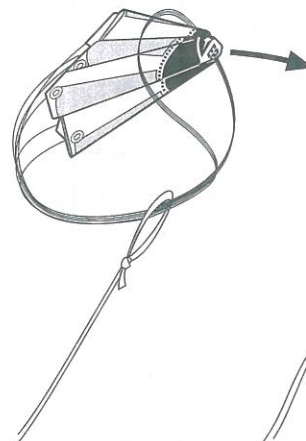
**A.** TIE A SECURE LOOP IN THE END OF SHOCK CORD.



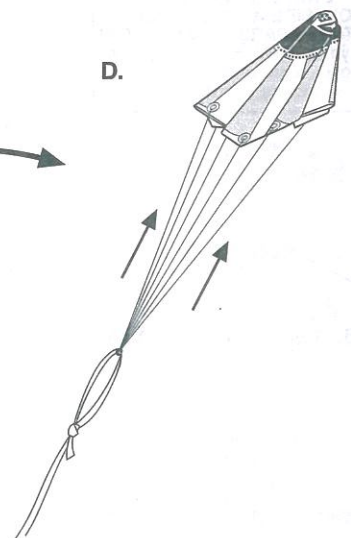
**B.**



**C.**

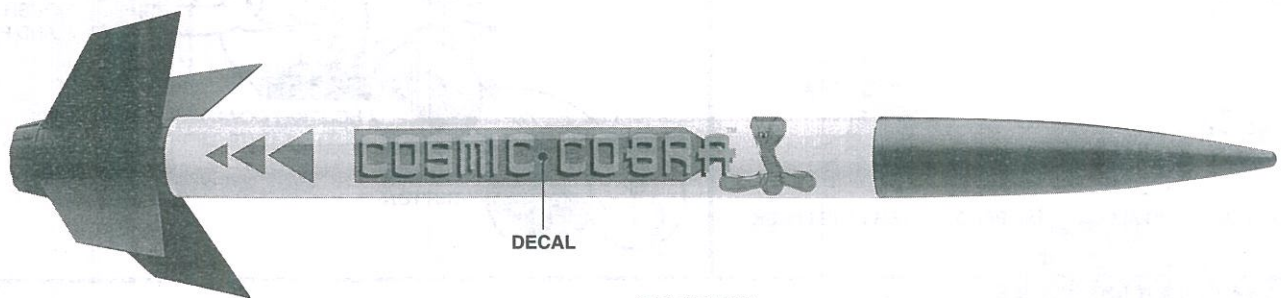


**D.**



## DECAL APPLICATION

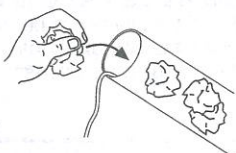
CAREFULLY REMOVE DECAL AND APPLY WHERE SHOWN. RUB DOWN TO REMOVE BUBBLES.



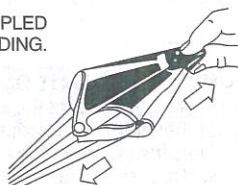
**OPTIONAL:** CLEAR COAT ENTIRE ROCKET AFTER APPLYING DECAL.

## PARACHUTE PREP

**A.** INSERT 3 OR 4 LOOSELY CRUMPLED SQUARES OF RECOVERY WADDING.



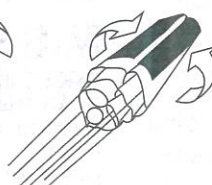
**B.** SPIKE.



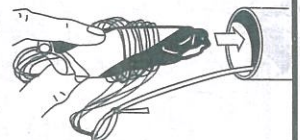
**C.** FOLD.



**D.** ROLL.

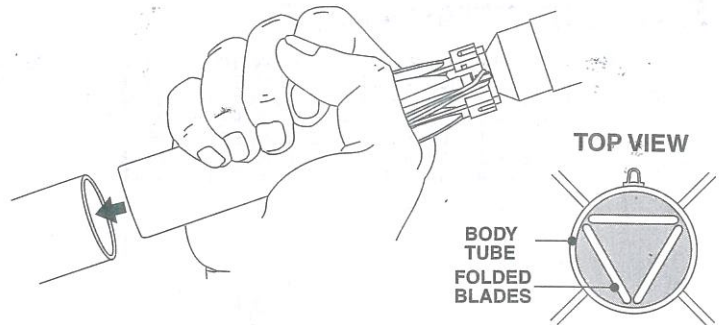
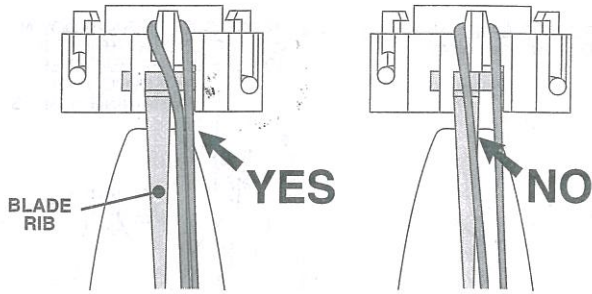


**E.** WRAP LINES LOOSELY, INSERT PARACHUTE AND SHOCK CORD INTO BODY TUBE.





## NOSE CONE PREP

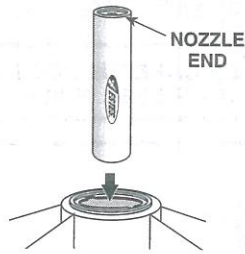


A. POSITION THE RUBBER BANDS TO THE SIDE AS SHOWN.

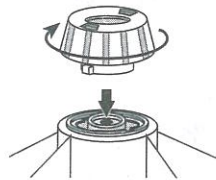
B. GATHER THE ROTOR BLADES AND INSERT INTO ROCKET BODY AS SHOWN.

### 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.



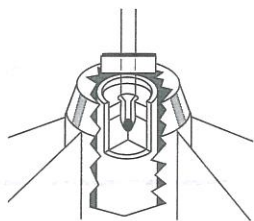
A. INSERT ENGINE INTO REAR OF ROCKET.



B. TWIST PLASTIC ENGINE LOCK RING ON.



C.



D. HOLD ROCKET UPRIGHT AND DROP IGNITER IN. TIP MUST TOUCH PROPELLANT.



E. INSERT IGNITER PLUG.



F. FIRMLY PUSH PLUG ALL THE WAY IN.



G. BEND IGNITER WIRES BACK.

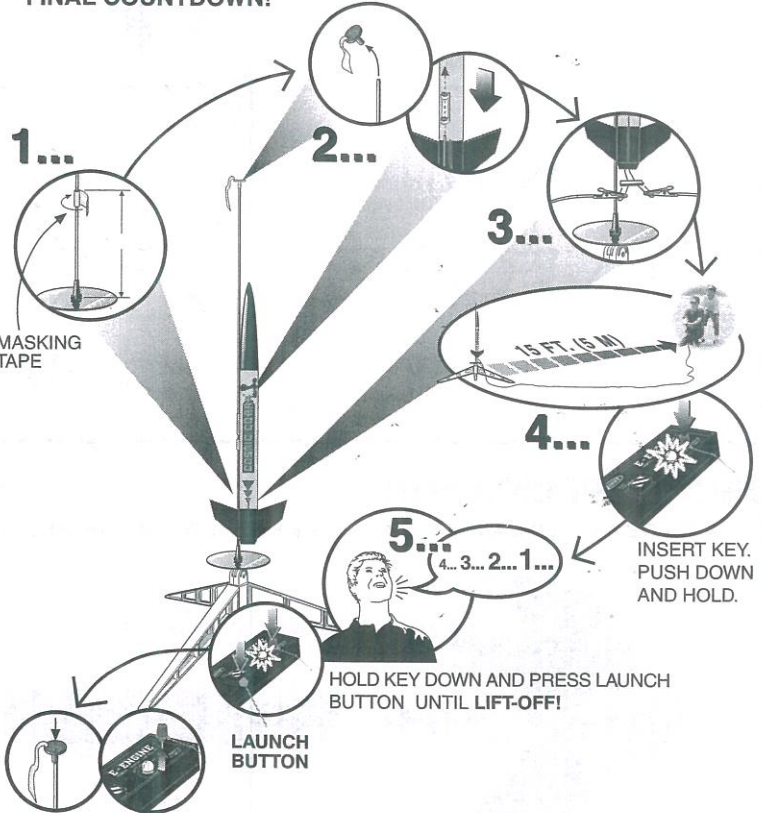
## COUNTDOWN AND LAUNCH



KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!

### LAUNCH SUPPLIES

- (Sold Separately)
- Estes® Electron Beam® Launch Controller
  - Estes® Porta-Pad® II Launch Pad
  - Recovery Wadding
  - Igniters (with Engines)
  - Igniter Plugs (with Engines)
  - Estes® Engines: B4-2, B6-2, B6-4, C6-3, C6-5



## PRECAUTIONS

NAR Safety Code



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 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.