



ESTES INDUSTRIES
1295 H Street
Penrose, CO 81240

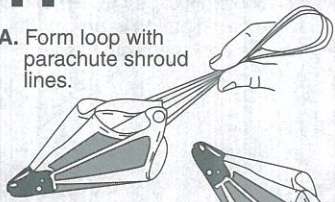
The World Leader in Model Rocketry

RECON™

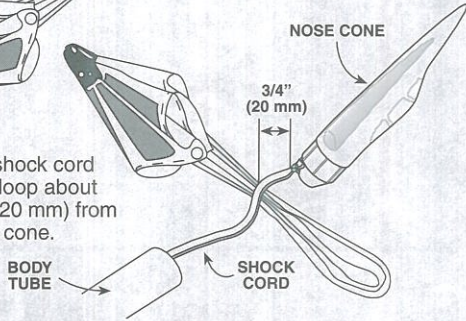
READY-BUILT™ FLYING MODEL ROCKET INSTRUCTIONS

1. PARACHUTE AND STREAMER ATTACHMENT

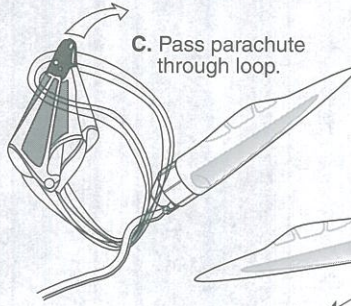
A. Form loop with parachute shroud lines.



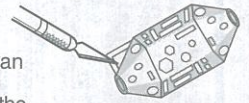
B. Lay shock cord over loop about 3/4" (20 mm) from nose cone.



C. Pass parachute through loop.

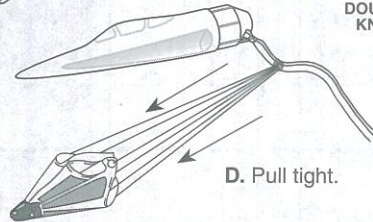


E. Carefully clean any excess plastic out of the satellite eyelet.

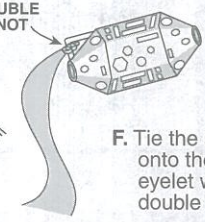


BE SURE NOT TO CUT OFF THE EYELET.

D. Pull tight.



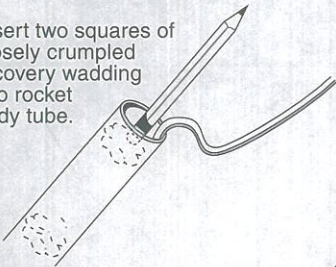
DOUBLE KNOT



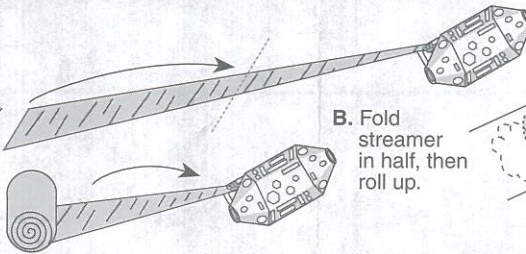
F. Tie the streamer onto the satellite eyelet with a double knot.

2. PARACHUTE AND STREAMER PREPARATION

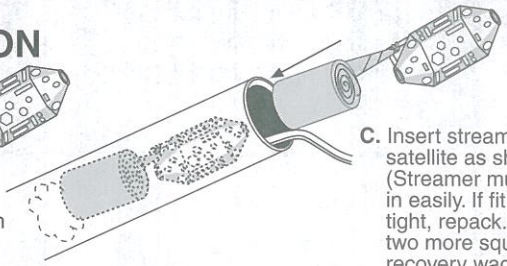
A. Insert two squares of loosely crumpled recovery wadding into rocket body tube.



B. Fold streamer in half, then roll up.



C. Insert streamer and satellite as shown. (Streamer must slide in easily. If fit is too tight, repack.) Insert two more squares of recovery wadding on top of satellite.



IMPORTANT: Wadding must be in place and slide easily for rocket to work properly!

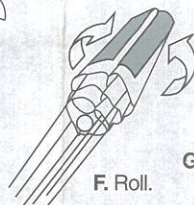
Parachute should slide easily into body tube. If fit is too tight, unfold and repack again.



D. Spike parachute.

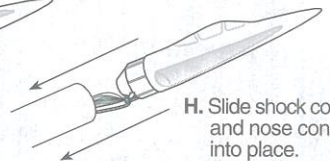
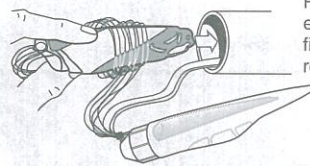


E. Fold.



F. Roll.

G. Wrap shroud lines loosely around chute. Insert parachute into rocket.



H. Slide shock cord and nose cone into place.

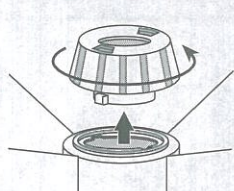
3. ENGINE PREPARATION

WARNING - FLAMMABLE

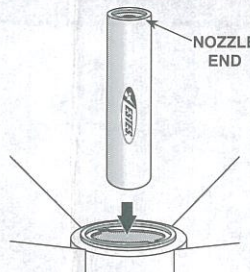
BEFORE PROCEEDING, READ INSTRUCTIONS AND NAR SAFETY CODE INCLUDED WITH ENGINES.

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

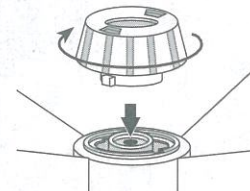
If you do not use your prepared engine, remove the igniter before storing your engine.



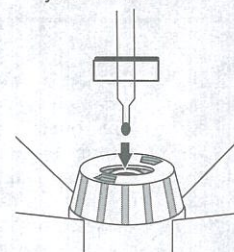
A. Twist off plastic engine lock ring at the rear of your rocket.



B. Slide engine into rear of rocket as shown.



C. Twist plastic engine lock ring into locked position to hold engine in place.



E. Hold rocket upright, drop in igniter. Igniter must touch propellant.



F. Insert igniter plug.



G. Firmly push all the way in.



D. Separate igniter and igniter plug.



H. Bend igniter wires back.

LAUNCH SUPPLIES

To launch your rocket, you will need the following:

- Launch Pad (Estes Porta-Pad® II)
- Launch Controller (Estes Electron Beam®)
- Recommended Estes Engines: B4-2, B6-2, C5-3, C6-3 or a C6-5.

Use a B6-2 for your first flight to become familiar with you rocket's flight pattern.

Use only Estes products to launch this rocket.

PROJECTED ALTITUDES

ENGINE	FEET	METERS
B4-2	191	58
B6-2	212	65
C5-3	558	170
C6-3/C6-5	523	160

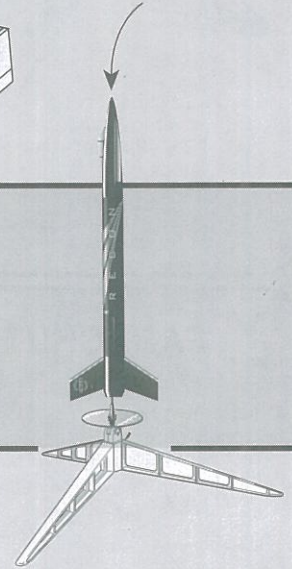
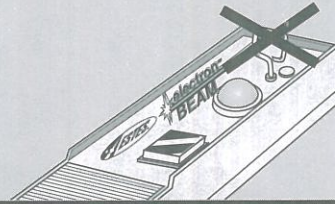
TIPS FOR FLYING YOUR ROCKET

- Choose a large field away from power lines, buildings, tall trees, and low flying aircraft. Try to find a field at least 250 feet (76 meters) square. The larger the launch area, the better your chance of recovering your rocket.
- Launch area must be free of dry weeds and brown grass.
- Launch only during calm weather with little or no wind and good visibility.
- Don't leave parachute packed more than a minute or so before launch during cold weather (colder than 40° Fahrenheit [4° Celsius]).
- Always follow the National Association of Rocketry (NAR) MODEL ROCKETRY SAFETY CODE while participating in any model rocketry activities. The safety code is enclosed with this kit.

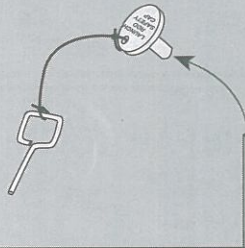
COUNTDOWN AND LAUNCH

10... Safety key must not be in launch controller.

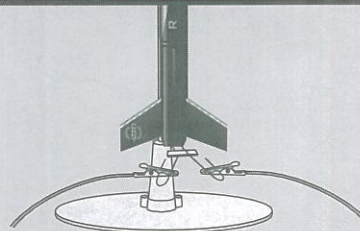
The safety cap with safety key attached should already be on the launch rod.



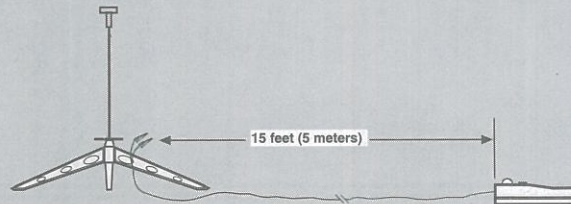
9... Remove safety cap from launch rod, slide launch lugs over rod. Make sure rocket slides freely and micro-clips are clean for good electrical contact.



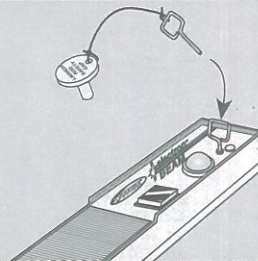
8... Attach micro-clips to the igniter wires. Arrange the micro-clips so they do not touch each other or the metal blast deflector. Attach micro-clips as close to protective tape on igniter as possible.



7... Move everyone back from your rocket as far as launch wire will permit (at least 15 feet - 5 meters).



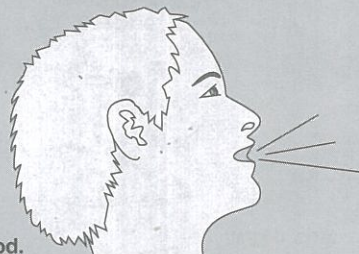
6... Insert safety key to arm the launch controller.



5... Start audible countdown.

**4...3...2...1.....
LAUNCH!**

Push and hold button until engine ignites. For safety, immediately remove safety key from launch controller and replace safety cap on launch rod.



MISFIRES

When an ignition failure occurs, **remove the safety key** from the launch control system and **wait one minute before approaching the rocket**. Remove the expended igniter from the engine and install a new one. Be certain the coated tip is in direct contact with the engine propellant. Broken or chipped coating will not affect the performance of the igniter. Reinstall the igniter plug as illustrated previously. Repeat the countdown and launch procedure.