1. ROCKET PARACHUTE ATTACHMENT
   A. Form a loop with parachute shroud lines.
   B. Tie a triple knot at the free end of the shock cord, then lay cord over loop.
   C. Pass parachute through loop.
   D. Pull tight.

2. NOSE CONE STREAMER ATTACHMENT
   A. Carefully clean any excess plastic out of the nose cone eyelet. BE SURE NOT TO CUT OFF THE EYELET!
   B. Thread half the length of the streamer through the eyelet and tie in place.

3. ACTION FIGURE PARACHUTE ATTACHMENT
   A. Thread half the length of one of the shroud lines through one of the harness holes on action figure’s shoulders. Repeat for other side.
   B. Lay the action figure on his back and separate lines as shown.
   C. Place the clear plastic ‘chute as shown.
   D. Position the rear line halves at the corners closest to his head, and stick each end to its corner with a tape disk.
   E. Position the two forward line halves at the far corners of the ‘chute and secure with tape disks. BE SURE NOT TO CROSS OR TANGLE LINES!
1. PREPARE PARACHUTES AND STREAMER FOR FLIGHT

Loosely crumple and insert seven squares of recovery wadding into rocket body.

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

B. Spike rocket parachute.

C. Fold.

D. Roll.

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

E. Wrap shroud lines loosely around rocket 'chute. Insert parachute into rocket.

F. Spike, fold, and roll your action figure's 'chute but do not wrap lines around 'chute. Simply slide your action figure into the rocket body as shown.

G. Carefully roll streamer, then slide streamer and nose cone into place as shown.

2. PREPARE ENGINE FOR FLIGHT

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. Separate igniter and igniter plug.

B. Twist off plastic fin unit at rear of rocket.

C. Slide engine into rocket body as shown.

D. Twist plastic fin unit 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.

H. Bend igniter wires back.
6. PREPARE FOR LAUNCH

1. Electrically ignited rocket engine provides rocket liftoff.

2. Rocket accelerates and gains altitude.

3. Rocket continues to climb during coast phase.

4. At peak altitude (apogee), the nose cone, action figure and rocket chute are ejected from the rocket body.

5. All recovery systems are deployed.

6. Touchdown! Replace the engine, igniter and recovery wadding, ready to launch again!

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 C6-5.

Use a B6-2 for your first flight to become familiar with your rocket’s flight pattern.
Use only Estes products to launch this rocket.

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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 parachutes or streamer 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.

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