

Penrose, CO 81240

(7-96) 82130

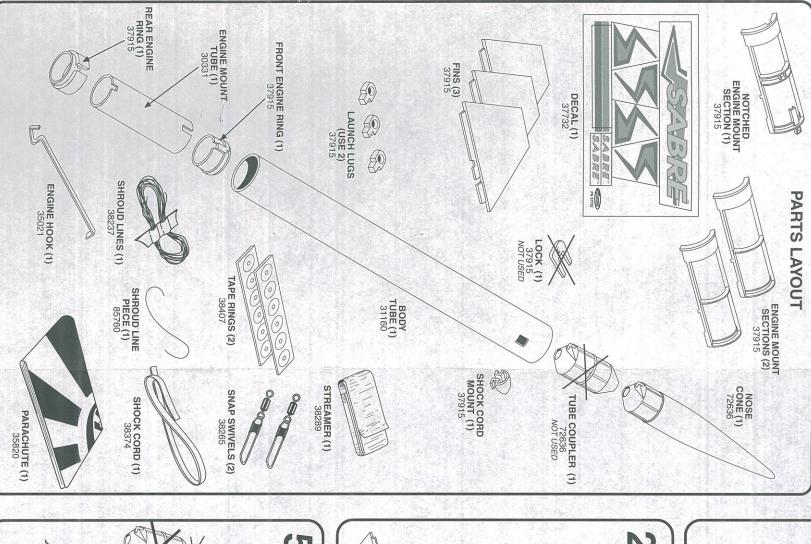
EST 1473

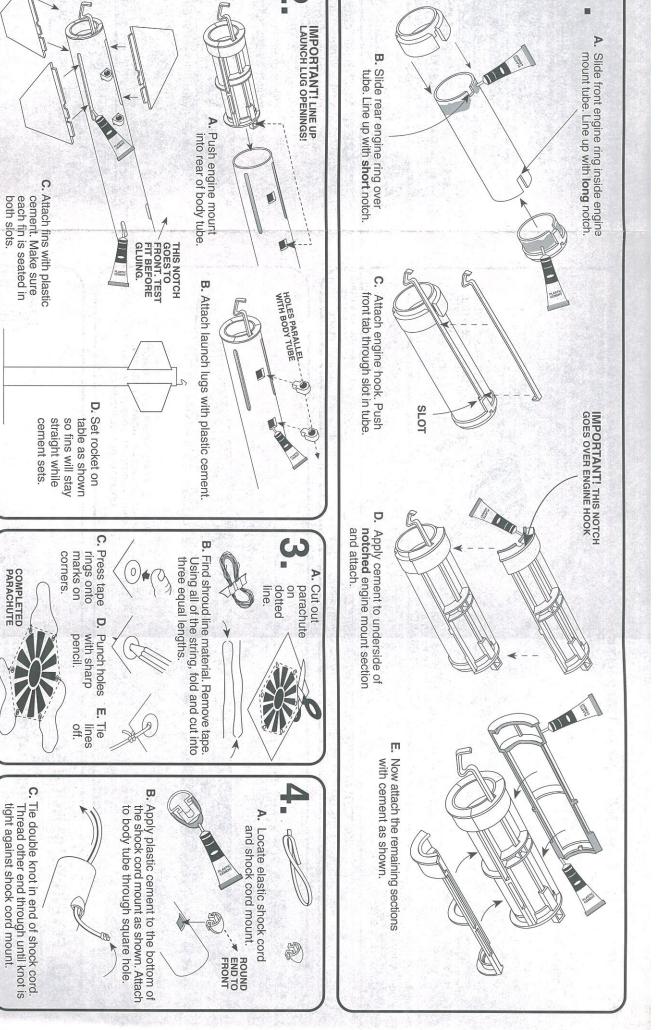
INSTRUCTIONS

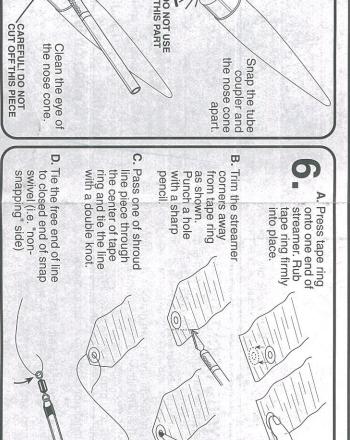
ALL GLUED AREAS ARE SHADED IN GRAY

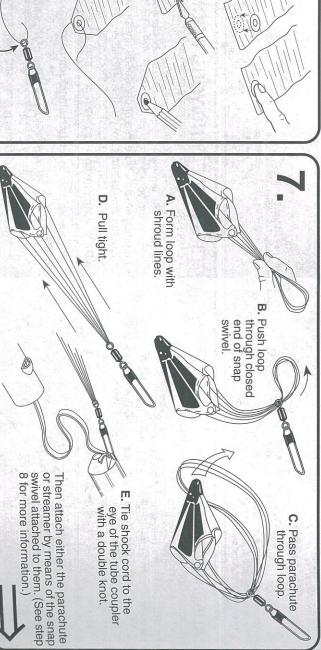
HOBBY KNIFE, MASKING TAPE, TUBE-TYPE PLASTIC CEMENT

TOOLS REQUIRED:

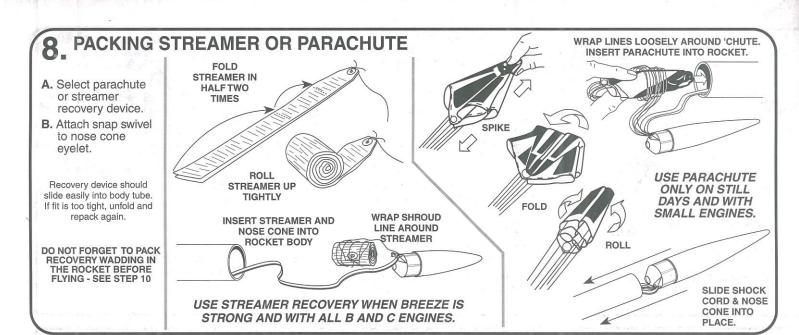


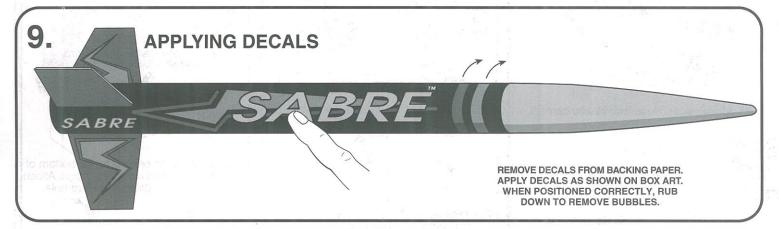


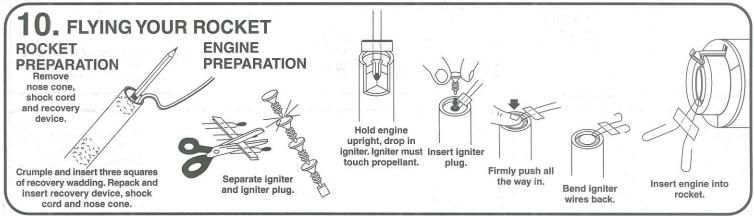




COMPLETED







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: A8-3, B4-4, B6-4, B6-6,
 C6-5 or C6-7. For your first flight, use an A8-3 engine to become familiar with your rocket's flight pattern.
- Recovery Wadding (EST 302274)
- Igniters and Igniter Plugs (included with Estes engines)
 Use only Estes products to launch this rocket.

ENGINE	PROJECTED ALTITUDE	
	Feet	Meters
A8-3	189	58
B4-4/B4-6	475	145
B6-4/B6-6	510	155
C6-5/C6-7	1050	320

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 76 meters (250 feet) 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 (wind speed less than 30 kph - 10 mph) and good visibility.
- Don't leave parachute packed more than a minute or so before launch during cold weather (colder than 4° Celsius [40° Fahrenheit]).
 Parachute may be dusted with talcum or baby powder to avoid sticking.
- 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. ? 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. Attach micro-clips to the igniter wires. Arrange the clips so they do not touch each other or the metal blast deflector. Attach clips as close to protective tape on igniter as possible. Move everyone back from your rocket as far as launch wire will permit (at least 5 meters - 15 feet). 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.