

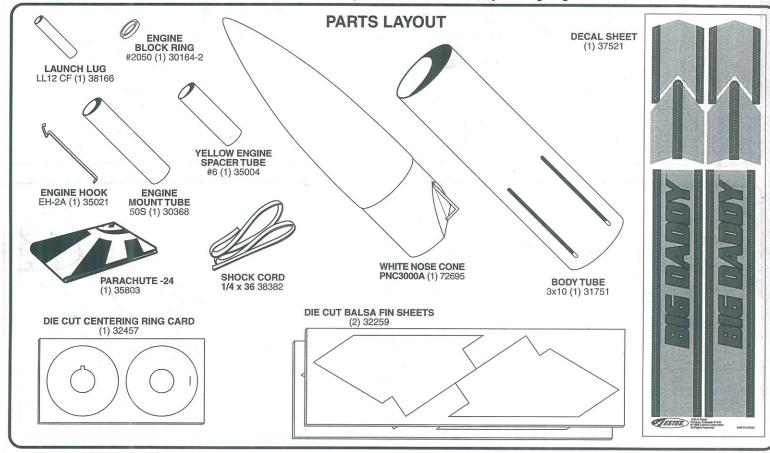
BIG DADDY Flying Model Rocket Kit Instructions

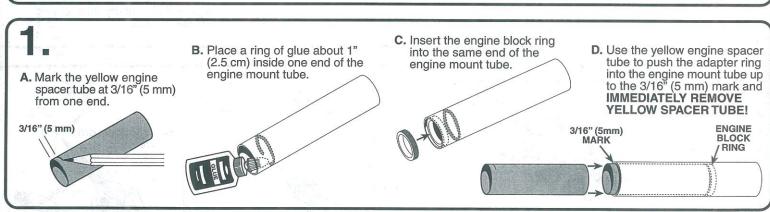
SERI Skill Level 2

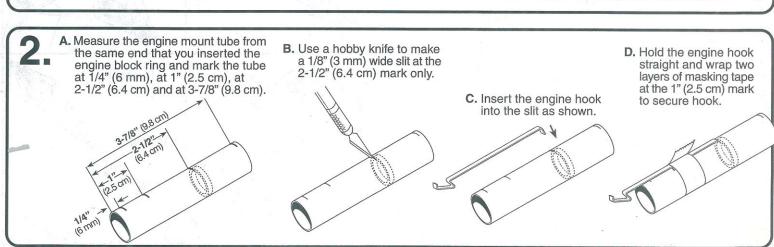
ESTES INDUSTRIES 1295 H Street Penrose, CO 81240

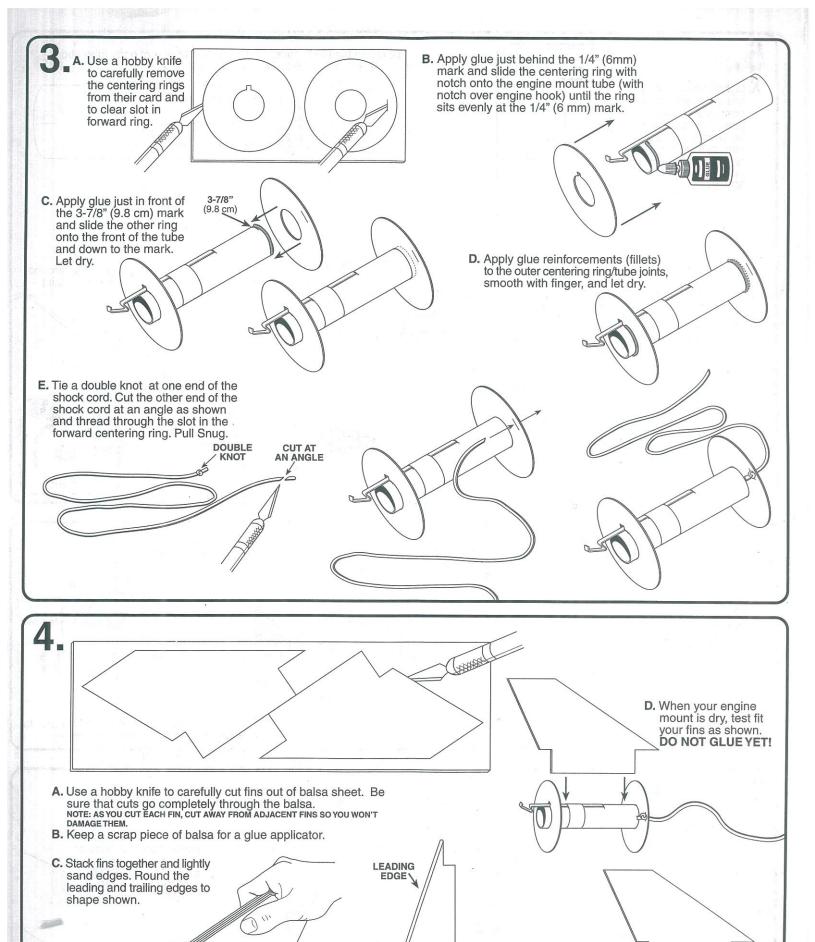
MATERIALS REQUIRED: HOBBY KNIFE, SCISSORS, PENCIL, MASKING TAPE, GLOSS BLACK AND YELLOW SPRAY PAINTS, AUTOMOTIVE PRIMER, WHITE OR YELLOW GLUE, SANDPAPER ALL GLUED AREAS ARE SHADED IN GRAY
Be sure to read all instructions, test fit all parts, and sand if necessary before gluing.

EST 2162 (9-98) 82277

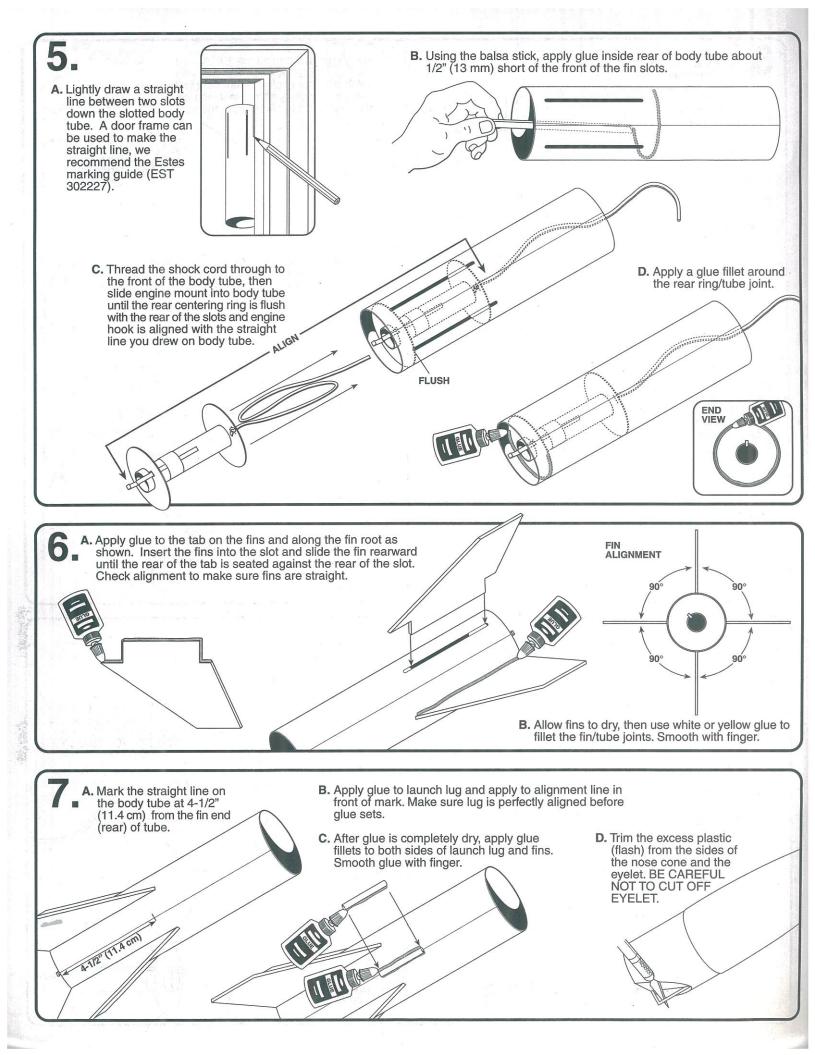


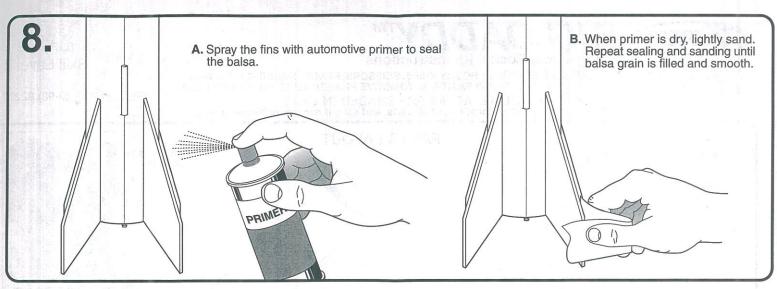


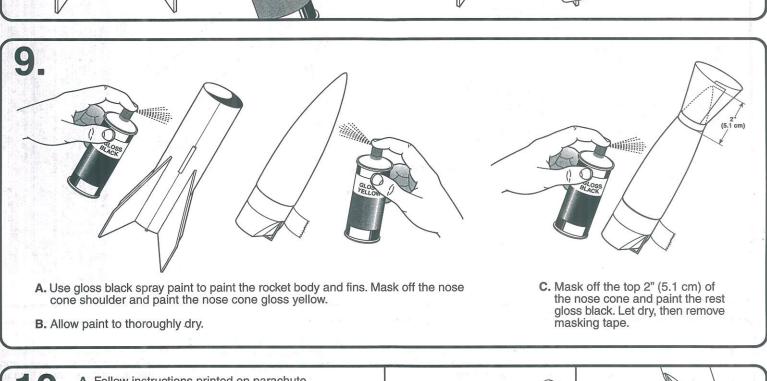


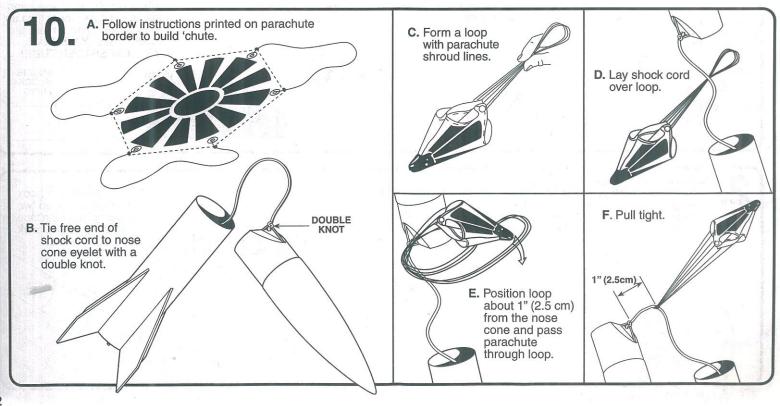


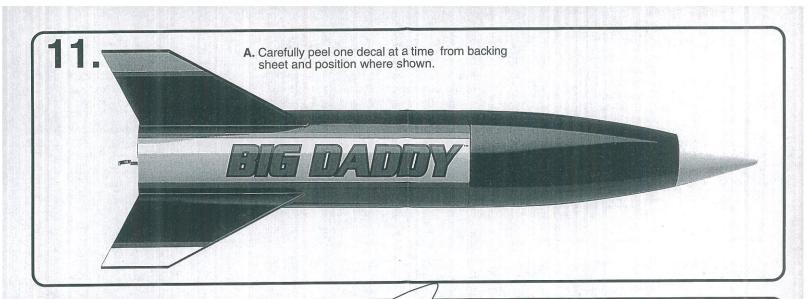
TRAILING

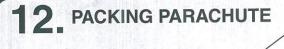












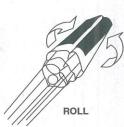
A. Crumple and insert 4-5 squares of recovery wadding. Repack and insert parachute and shock cord.

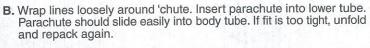


A. Spike, fold and roll parachute.

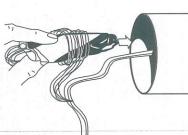




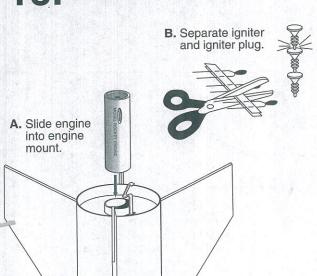


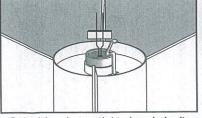


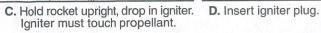
Do not forget to pack recovery wadding in the rocket before flying.

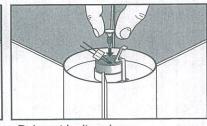


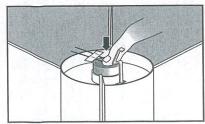
13. ENGINE PREPARATION



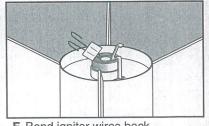








E. Firmly push all the way in.



F. Bend igniter wires back.

LAUNCH SUPPLIES

To launch your rocket, you will need the following:

Launch Pad (Estes Porta-Pad® II)

- 3/16" (5 mm) diameter Maxi™ Launch Rod
 Launch Controller (Estes Electron Beam®)
- Recommended Estes Engines: D12-3, or a D12-5 Use a D12-5 for your first flight to become familiar

with your rocket's flight pattern.

Recovery Wadding (EST 302274)

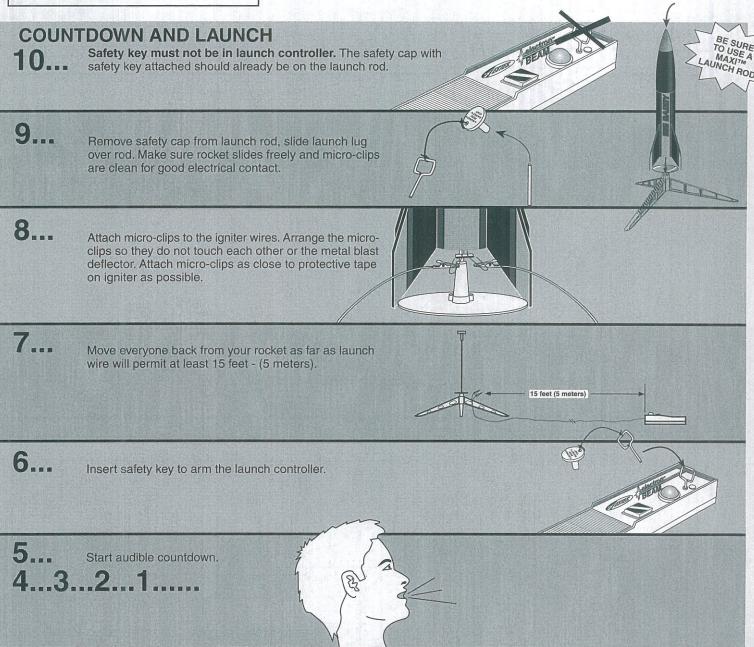
Igniters and Igniter Plugs (included with all Estes engines)

Use only Estes products to launch this rocket.

	ENGINE	PROJECTED ALTITUDE	
		FEET	METERS
	D12-3/ D12-5	350	107

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 500 feet (152 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 (wind speed less than 20 mph - 30 kph) 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]). 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.



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.