

NG MODEL ROCKET KIT INSTRUCTIONS

ES (11-97) 84424

EST 2156



SKILL LEVEL 1

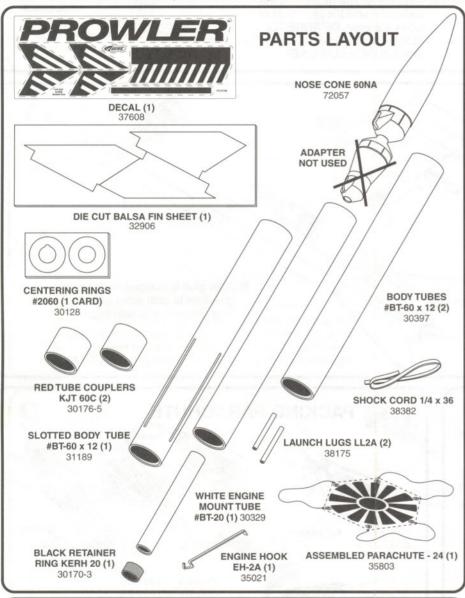
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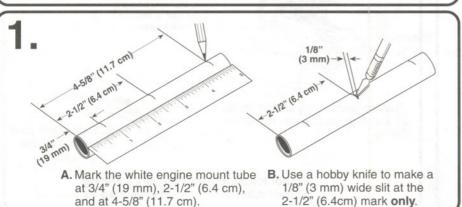
MATERIALS REQUIRED:

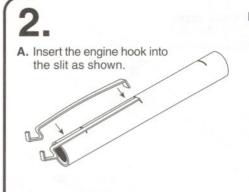
PENCIL, RULER, HOBBY KNIFE, WHITE OR YELLOW GLUE, 3/4" (19 mm) MASKING TAPE, SANDPAPER, AUTOMOTIVE PRIMER, DARK BLUE GLOSS SPRAY PAINT

ALL GLUED AREAS ARE SHADED IN GRAY

BE SURE TO READ ALL INSTRUCTIONS, TEST FIT ALL PARTS, AND SAND IF NECESSARY BEFORE GLUING.







B. Apply a the 3/4 the blanthe tub the ma the end

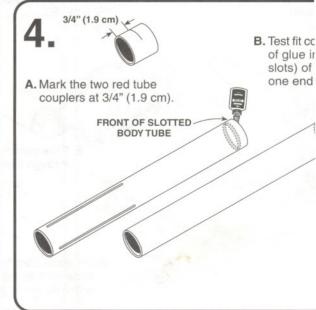
F. Once rin apply glu of rings, and let g

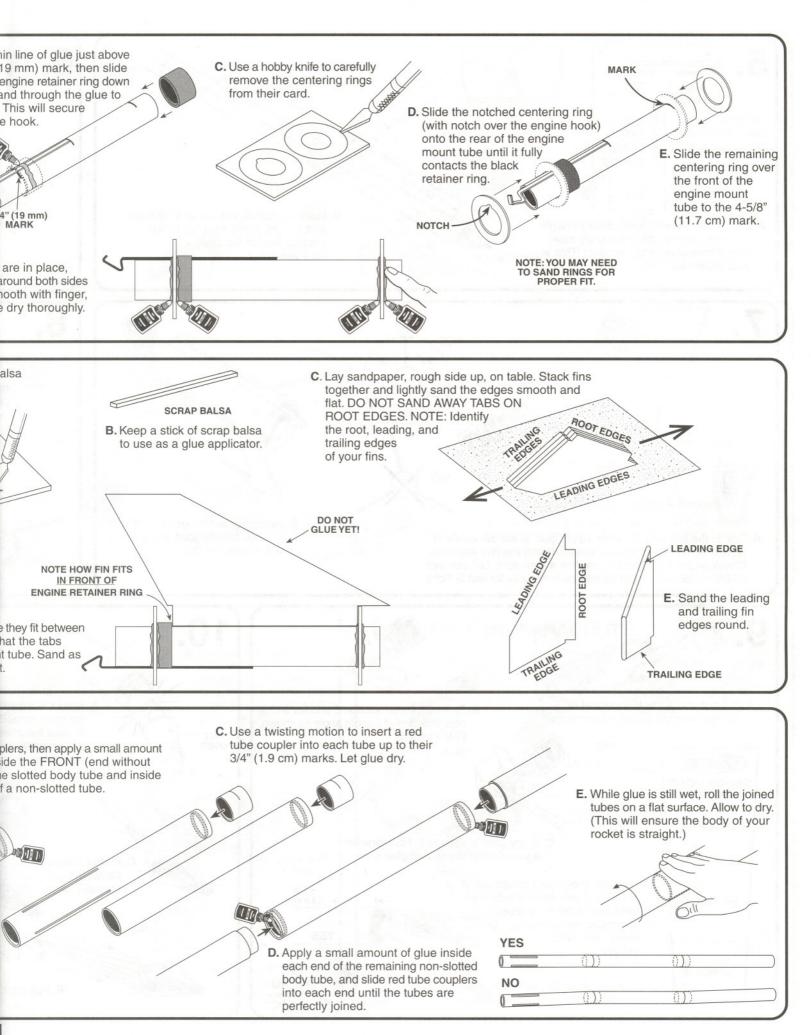
D. Test fit all fins to make su the centering rings and contact the engine more necessary for a proper

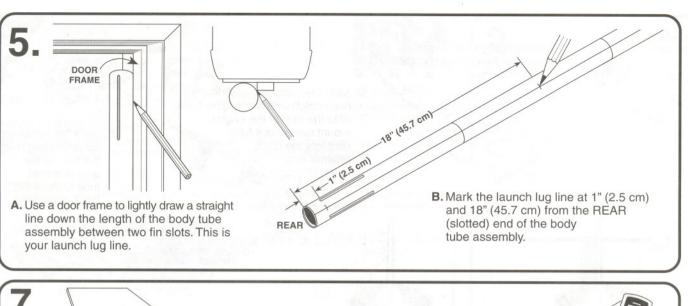
A. Use a hobby knife to carefully cut fins out of

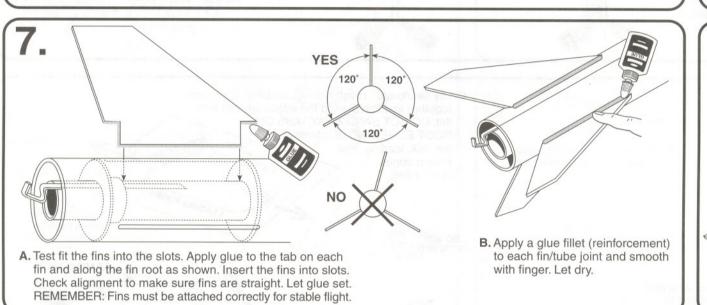
avoid damage.) Be sure cuts go

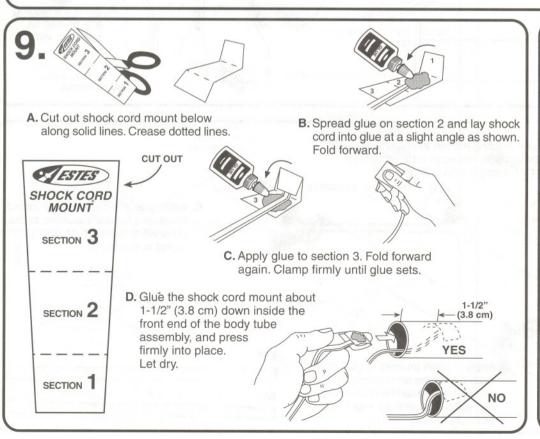
sheet. (Always cut away from other fins to

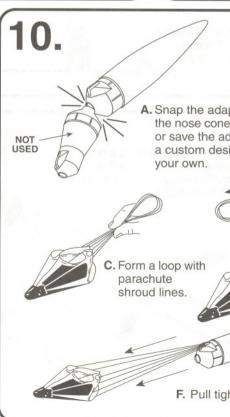


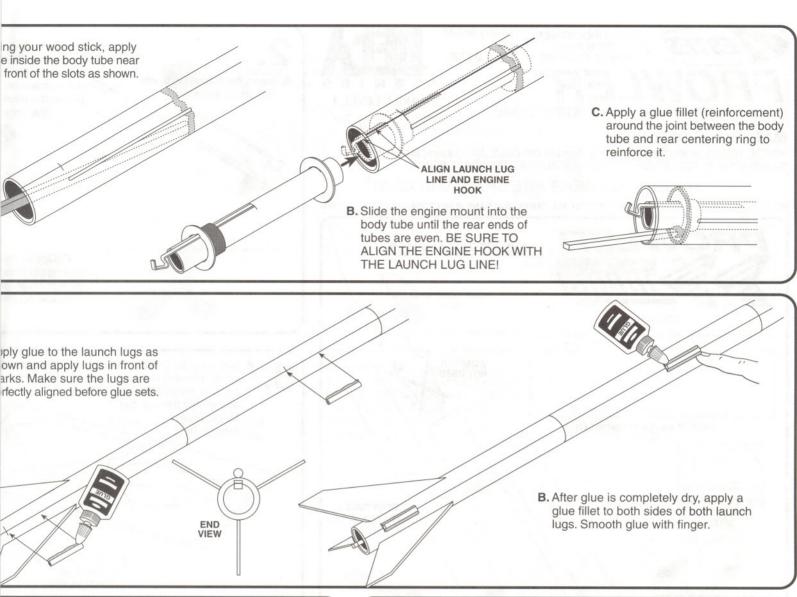


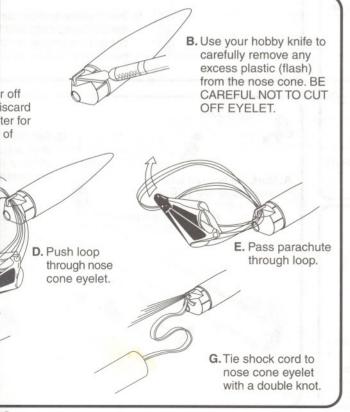


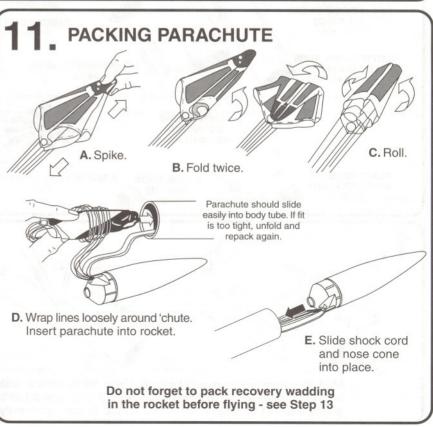


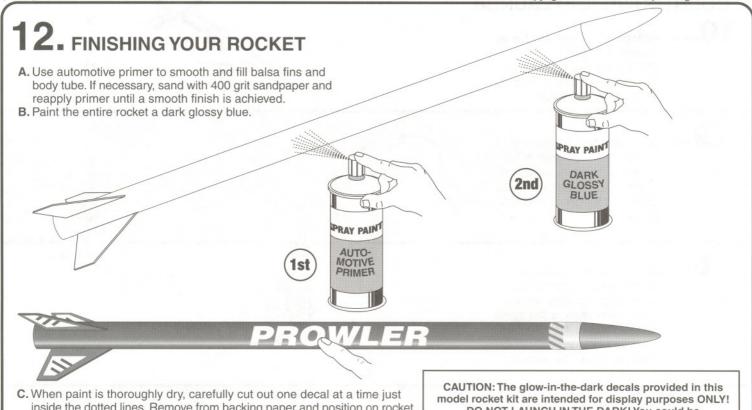






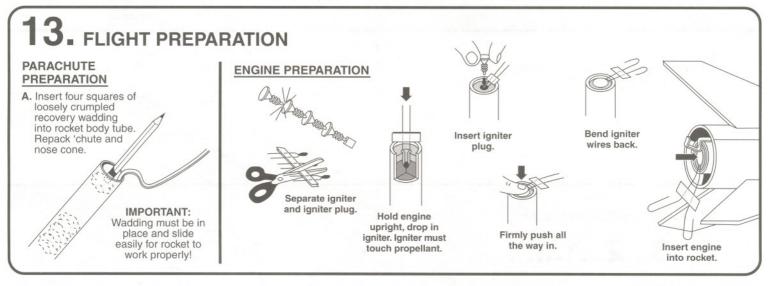






- inside the dotted lines. Remove from backing paper and position on rocket as shown on box.
- D. Once in position, rub decal with finger to remove air bubbles and secure decal to rocket.

DO NOT LAUNCH IN THE DARK! You could be seriously injured by tripping over or running into unseen objects during recovery!



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 or C6-3.

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.

PROJECTED ALTITUDES		
ENGINE	FEET	METERS
B4-2	105	32
B6-2	120	37
C5-3	360	110
C6-3	334	102

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 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 microclips 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). 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.



