

(10-97) 82202

EST 2154



SKILL LEVEL 1

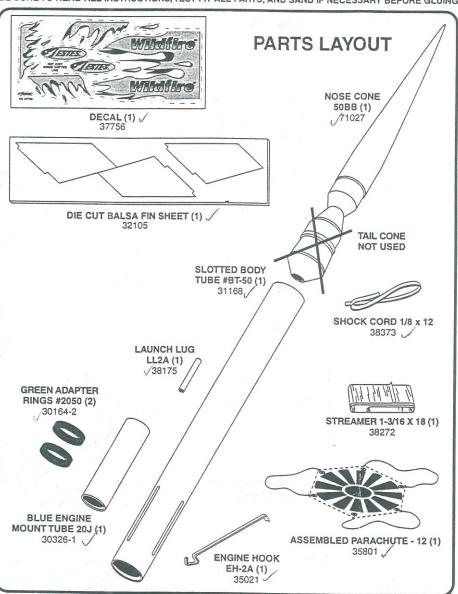
FLYING MODEL ROCKET KIT INSTRUCTIONS

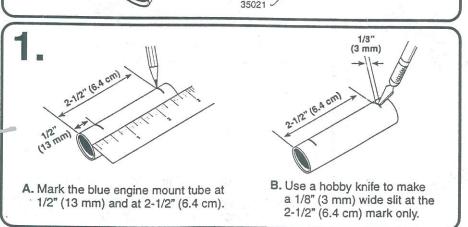
MATERIALS REQUIRED:

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

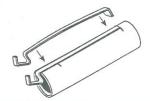
ALL GLUED AREAS ARE SHADED IN GRAY

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

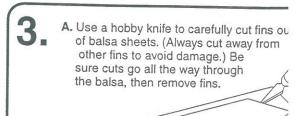


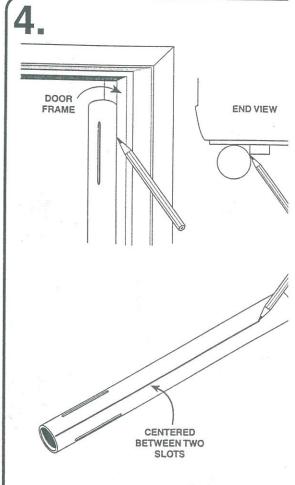


A. Insert the engine hook into the slit as shown.

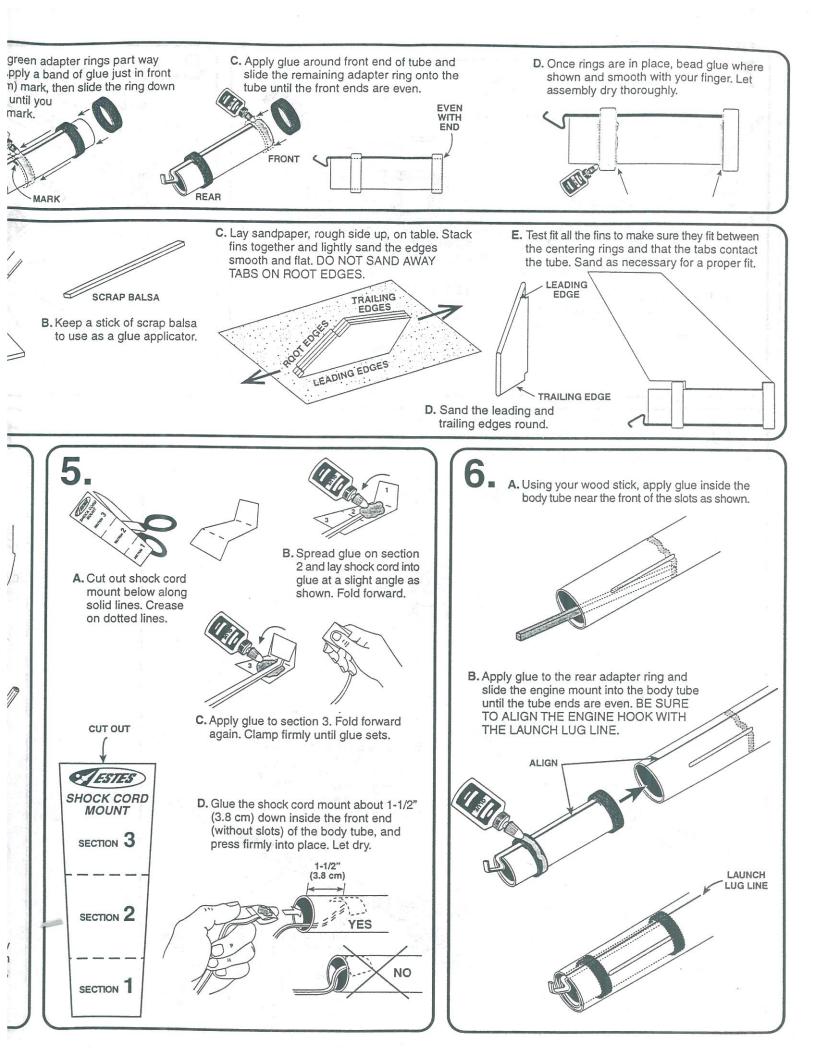


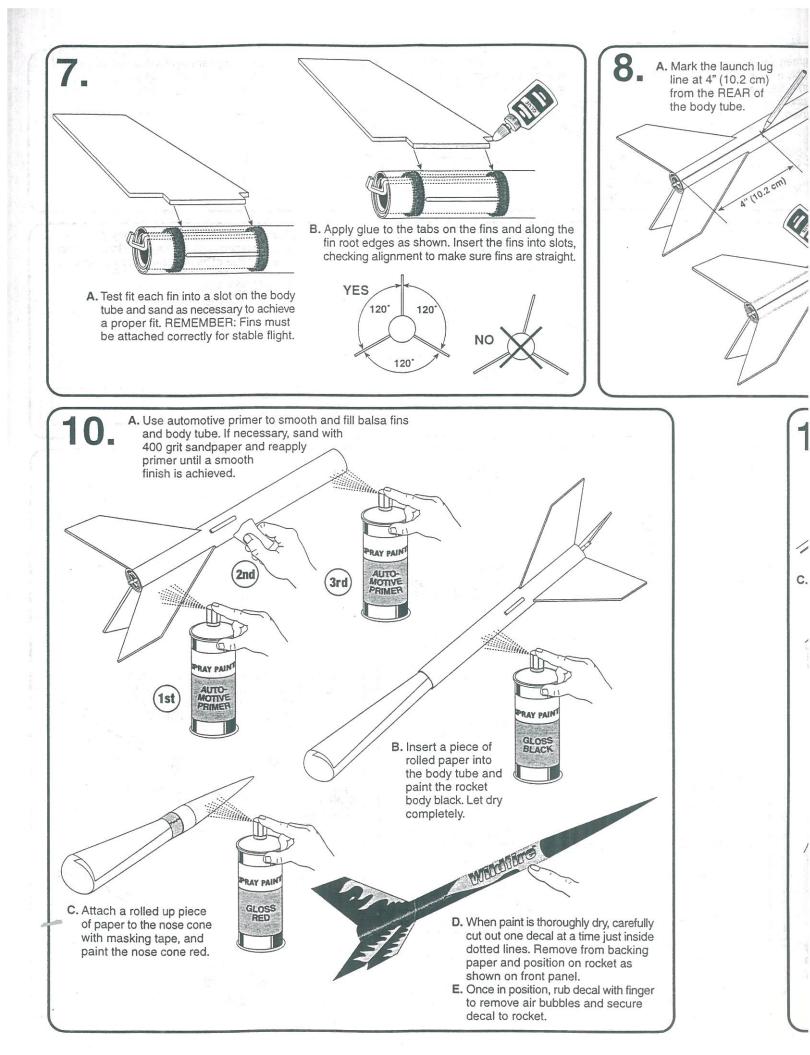
B. Slide one of the down the tube of the 1/2" (13 through the great can just see the down the second second

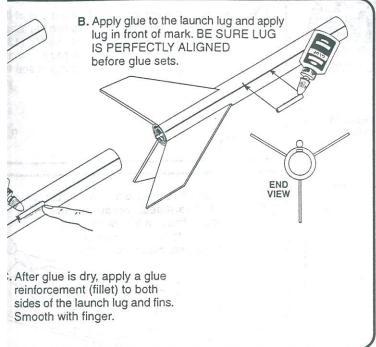


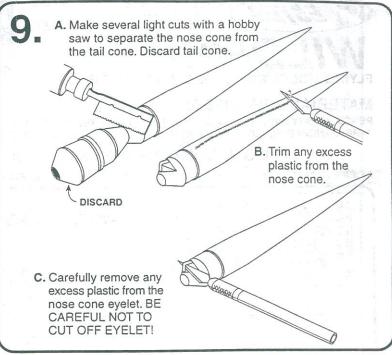


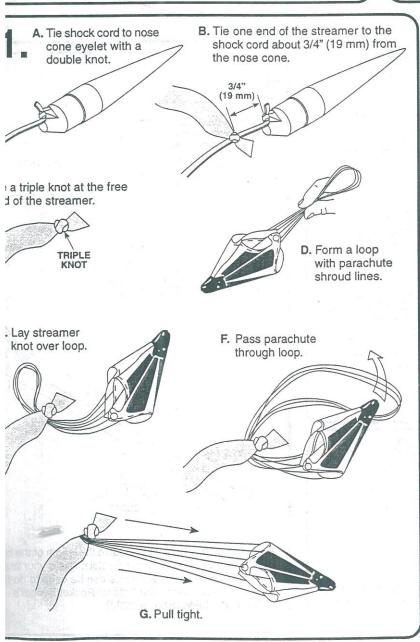
A. Lightly draw a straight line down the length of the b tube centered between two fin slots. This is your lau lug line. NOTE: A door frame can be used to do t but we recommend the Estes® Rocket Builder's Marking Guide (EST 302227)

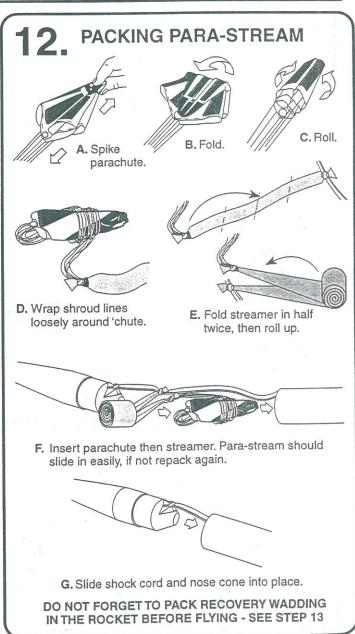


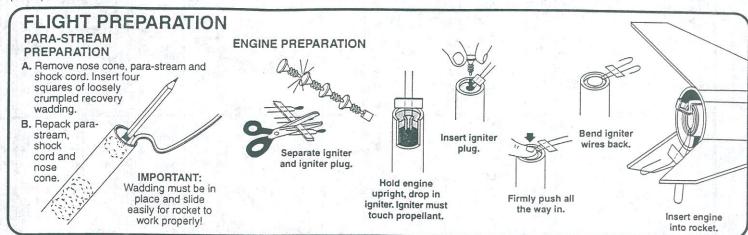












LAUNCH SUPPLIES

To launch your rocket, you will need the following:

- · Launch Pad (Estes Porta-Pad® II)
- · Launch Controller (Estes Electron Beam®)
- Recommended Estes Engines: 1/2A6-2, A8-3, B6-4. B6-6, C6-5 or C6-7.

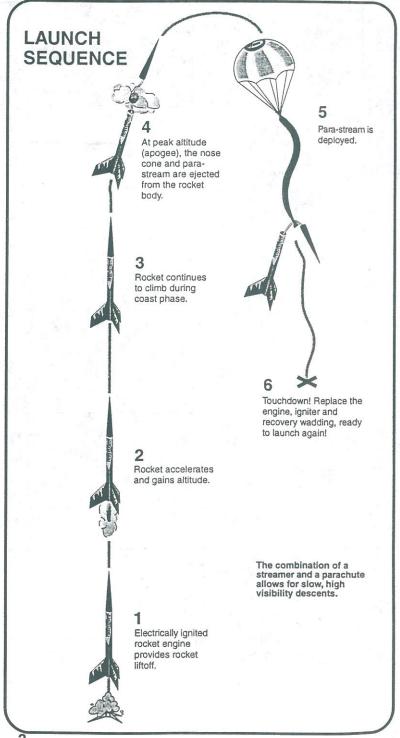
Use an A8-3 for your first flight to become familiar with your rocket's flight pattern.

Use only Estes products to launch this rocket.

PROJECTED ALTITUDES		
ENGINE	FEET	METERS
1/2A6-2	93	28
A8-3	279	85
B4-4	570	174
B6-4/B6-6	589	180
C6-5/C6-7	1027	314

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]). 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 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 lug 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). 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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