

(1-98) 84515

EST 2077



FLYING MODEL BOCKET KIT INSTRUCTIONS

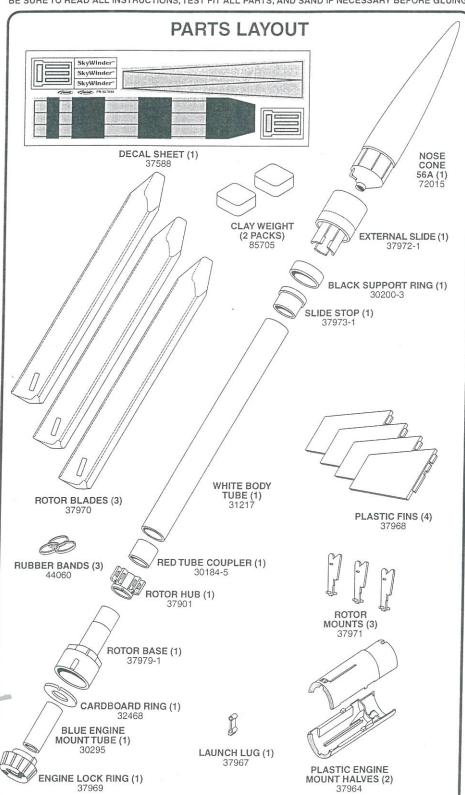
FEITING WODEL NOCKET KIT INSTRUC

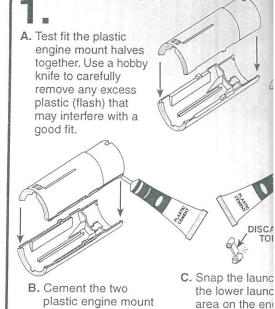
MATERIALS REQUIRED:

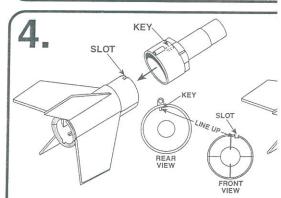
PENCIL, RULER, PAPER TOWEL OR RAG, WHITE OR YELLOW GLUE, SANDPAPER, TUBE-TYPE PLASTIC CEMENT, SCISSORS, HOBBY KNIFE

ALL GLUED AREAS ARE SHADED IN GRAY

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



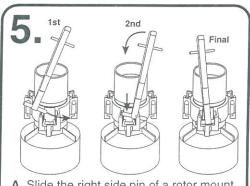




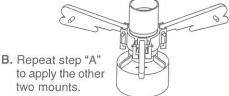
Let assembly d

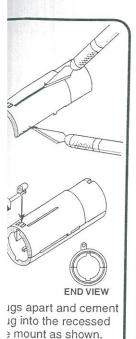
halves together.

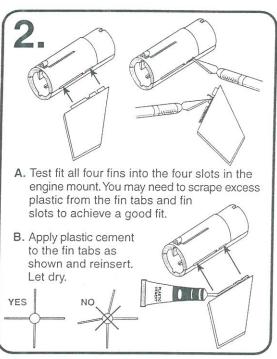
A. Test fit the rotor base onto the shoulder of the how the "key" in the base fits into the slot in th shoulder. Apply plastic cement around the ins shown and slide back onto fin assembly should

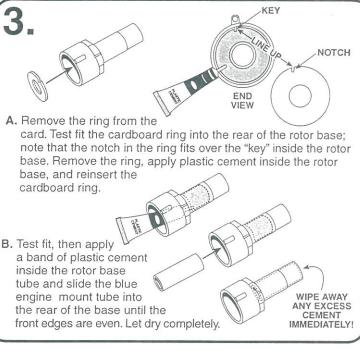


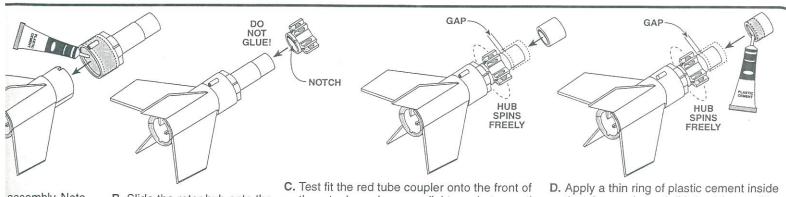
A. Slide the right side pin of a rotor mount into the right side of one of the mount slots on the rotor hub. Gently push the mount to the right and slip the left pin into its slot. DO NOT FORCE THE MOUNTS INTO POSITION! If the mount is upside down, it will not fit.











assembly. Note n assembly of the base as . Let dry.

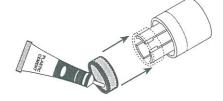
horoughly.

B. Slide the rotor hub onto the front of the rotor base with the notched end facing the fins. DO NOT GLUE!

Test fit the red tube coupler onto the front of the rotor base. Leave a slight gap between the coupler and the hub, and check that the hub still spins freely. If not, use fine grain sandpaper to sand the inside of the hub until it spins freely. D. Apply a thin ring of plastic cement inside the tube coupler and slide back into position. BEFORE CEMENT DRIES: BE SURE YOU HAVE LEFT SMALL GAP AND THAT THE HUB SPINS FREELY! Let dry.



Apply plastic cement just nside one end of the body ube and insert the slide stop as shown. Let dry.



B. Apply a ring of plastic cement around the inside of the black support ring and slide the ring onto the tongs of the external slide until the edge of the ring is even with the end of the tongs. Let dry completely.

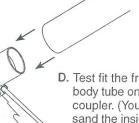
END OF SLIDE STOP

C. Check that the cement around the slide stop is comp

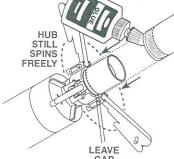
SLIDE

C. Check that the cement around the slide stop is completely dry, and slide the external slide up the body tube as shown until it hits the slide stop. DO NOT GLUE!

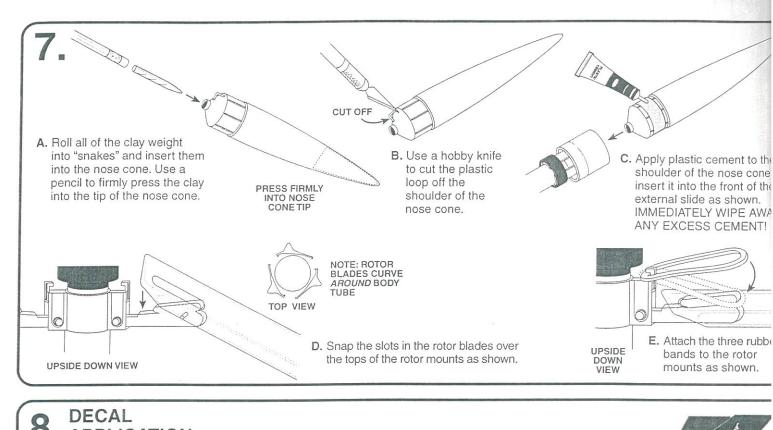
NOTE: You may need to remove excess plastic from the inside of the tongs in order for the external slide to move smoothly down the tube.

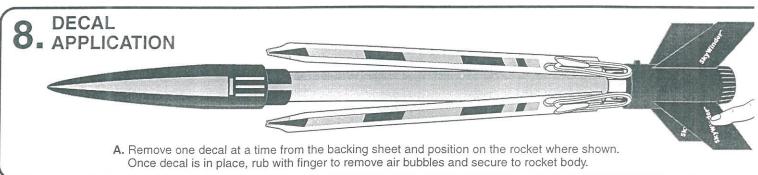


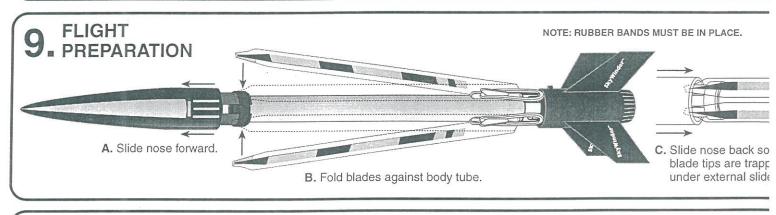
D. Test fit the free end of the body tube onto the red tube coupler. (You may need to sand the inside of the white tube to achieve a good fit.)



E. Remove tube, apply a ring of white or yellow glue just inside the free end of the body tube, and in one continuous motion slide the body tube over the coupler until their edges are even. Be careful not to slide the body tube too far -THE HUB MUST SPIN FREELY! Let dry.



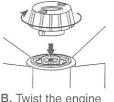








A. Slide engine into engine mount.



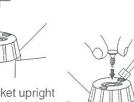
B. Twist the engine lock ring onto engine mount.



C. Separate igniter and plug.



D. Hold rocket upright and drop in igniter. Igniter must touch propellant.



E. Insert igniter plug.



F. Firmly push all the way in.



G. Bend igr wires ba

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 (first flight), B6-2, C5-3, C6-3

Use a B4-2 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	210	64
	B6-2	227	69
	C5-3	531	162
	C6-3	501	153

TIPS FOR FLYING YOUR ROCKET

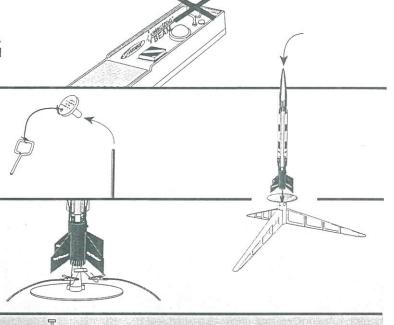
- Choose a large field away from power lines, buildings, tall trees, and low flying aircraft. Try to find a field at least 250 feet (76 meters) square. The larger the launch area, the better your chance of recovering your rocket.
- · Launch area must be free of dry weeds and brown grass.
- Launch only during calm weather with little or no wind and good visibility.
 The SkyWinder™ blades extend at apogee and the rocket will helicopter to the ground. Be prepared! The SkyWinder™ may travel long distances.
- 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.

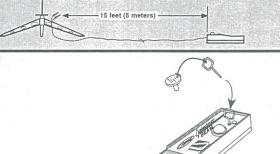
COUNTDOWN AND LAUNCH

- 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.
 - 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.
 - 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!

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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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