



Estes Industries  
The World Leader in  
Model Rocketry  
1295 H Street  
Penrose, CO 81240 USA

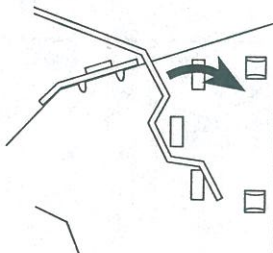
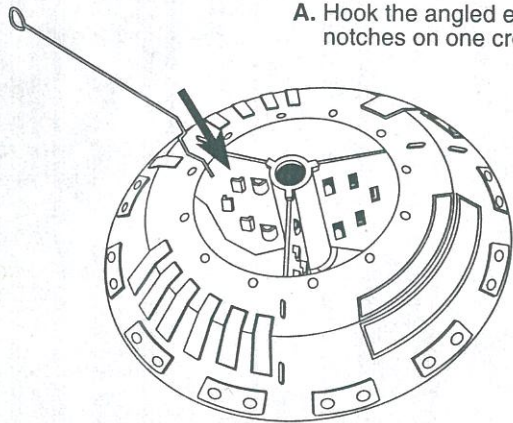
# SNITCH™

## READY TO FLY FLYING MODEL ROCKET INSTRUCTIONS

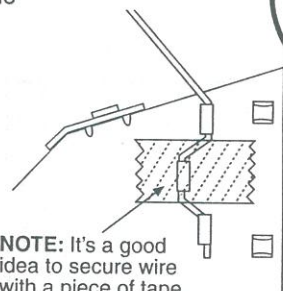
EST 1807  
(9-98) 36359

### 1. LANDING GEAR ATTACHMENT

A. Hook the angled end on one of the landing gear wires around the notches on one cross section as shown.



POSITION WIRE FORM  
UNDER TABS

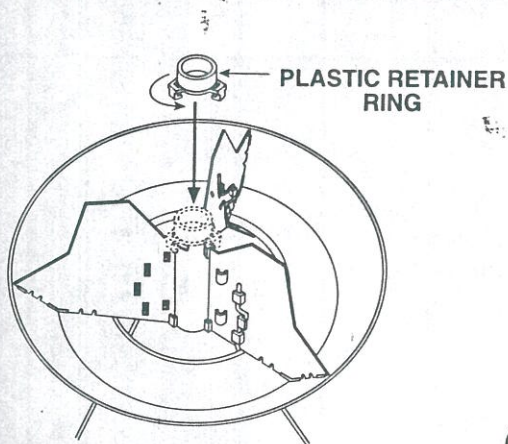


NOTE: It's a good idea to secure wire with a piece of tape.

SNAP INTO PLACE

B. Repeat for other two landing gear wires.

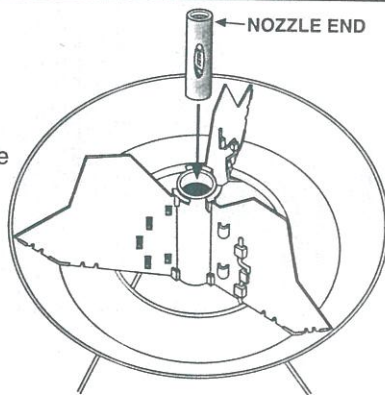
### 2. PREPARE SNITCH™ FOR FLIGHT



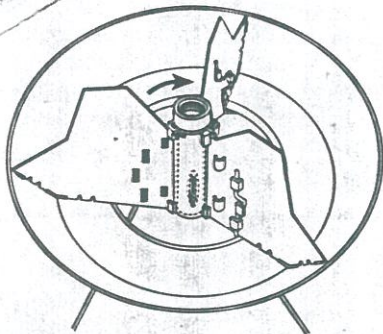
PLASTIC RETAINER  
RING

A. Turn the Snitch™ upside down so that the landing gear is facing down and twist off plastic retainer ring at rear of rocket.

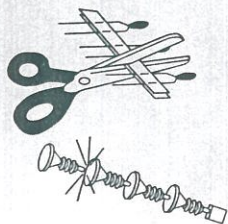
**WARNING:**  
BEFORE PROCEEDING, READ INSTRUCTIONS AND NAR SAFETY CODE INCLUDED WITH ENGINES.  
PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!  
If you do not use your prepared engine, remove the igniter before storing your engine.



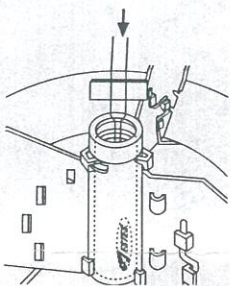
B. Slide engine into rocket body as shown.



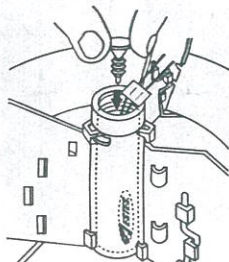
C. Twist plastic retainer ring into locked position to hold engine in place.



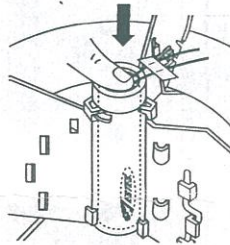
D. Separate igniter and igniter plug.



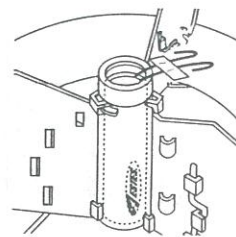
E. Drop the igniter into the engine nozzle. Igniter must touch propellant.



F. Insert igniter plug.



G. Firmly push igniter plug all the way in.



H. Bend igniter wires back as shown.

### LAUNCH SUPPLIES

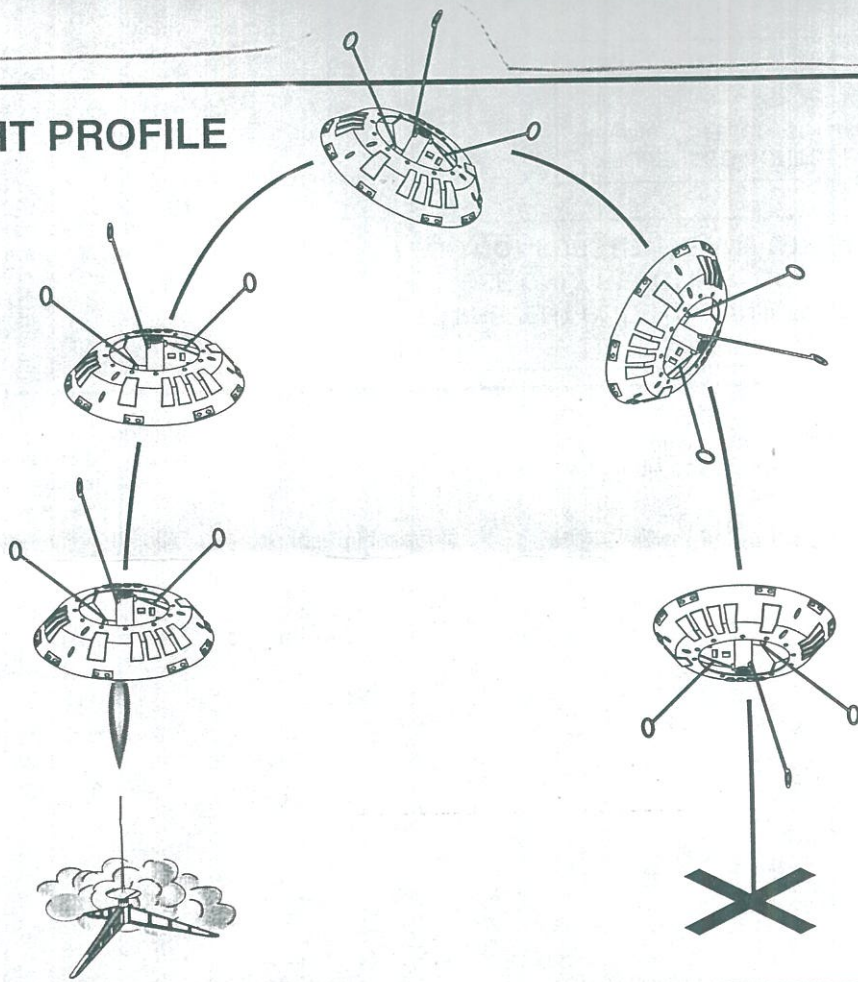
To launch your rocket, you will need the following:

- Launch Pad (Estes Porta-Pad® II)
- Launch Controller (Estes Electron Beam®)
- Recommended Estes Engines: B6-0, C6-0.  
Use a B6-0 for your first flight to become familiar with your rocket's flight pattern.
- Igniters and Igniter Plugs (included with all Estes engines)  
Use only Estes products to launch this rocket.

**NOTE:**  
TO PREVENT POTENTIAL INJURY OR DAMAGE,  
USE ONLY RECOMMENDED ENGINES!  
DO NOT SUBSTITUTE ANY OTHER ENGINE!

PROJECTED ALTITUDE		
Engine	Feet	Meters
B6-0	65	20
C6-0	120	37

## FLIGHT PROFILE

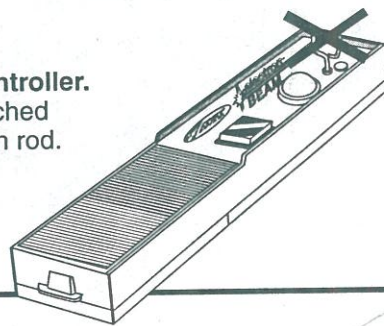


### TIPS FOR FLYING YOUR ROCKET

- 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 (wind speed less than 10 mph - 15 kph) and good visibility.
- 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.

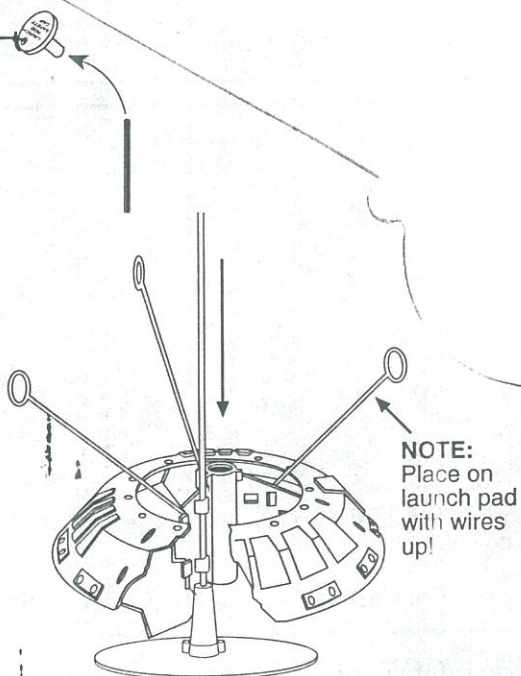
## COUNTDOWN AND LAUNCH

**10...** Safety key must not be in launch controller.  
The safety cap with safety key attached should already be on the launch rod.



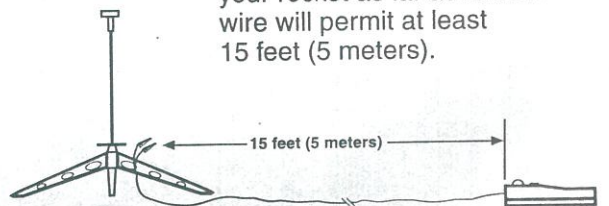
**9...**

Remove safety cap from launch rod, slide launch lugs from any cross section over rod. Make sure rocket slides freely and micro-clips are clean for good electrical contact.



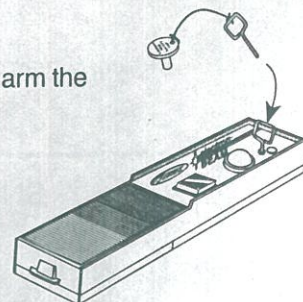
**7...**

Move everyone back from your rocket as far as launch wire will permit at least 15 feet (5 meters).



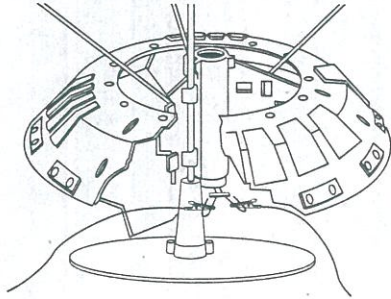
**6...**

Insert safety key to arm the launch controller.



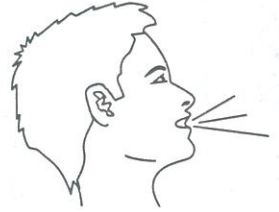
8...

Attach micro-clips to the igniter wires. Arrange the micro-clips so they do not touch each other or the metal blast deflector. Attach micro-clips as close to protective tape on igniter as possible.



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.

