



# MIRAGE™

No. 1612

## ASSEMBLY INSTRUCTIONS

TOOLS YOU'LL NEED TO ASSEMBLE THIS ROCKET

Tube Type Plastic Cement

Hobby Knife

Body Tube  
11411

Motor Housing  
20600/20601

Fin  
20828 (4)

26" Shroud Lines  
50100 (2)

Gripper Tabs  
00500 (2)

Display Stand  
24208/24209

Gray Motor Mount Tube  
1030\*

Fin Locking Ring  
20023

Motor Lock Ring  
20024

PARTS NOT TO SCALE

Nose Cone  
20304

Payload Tube  
11412

White Shock Cord  
50012

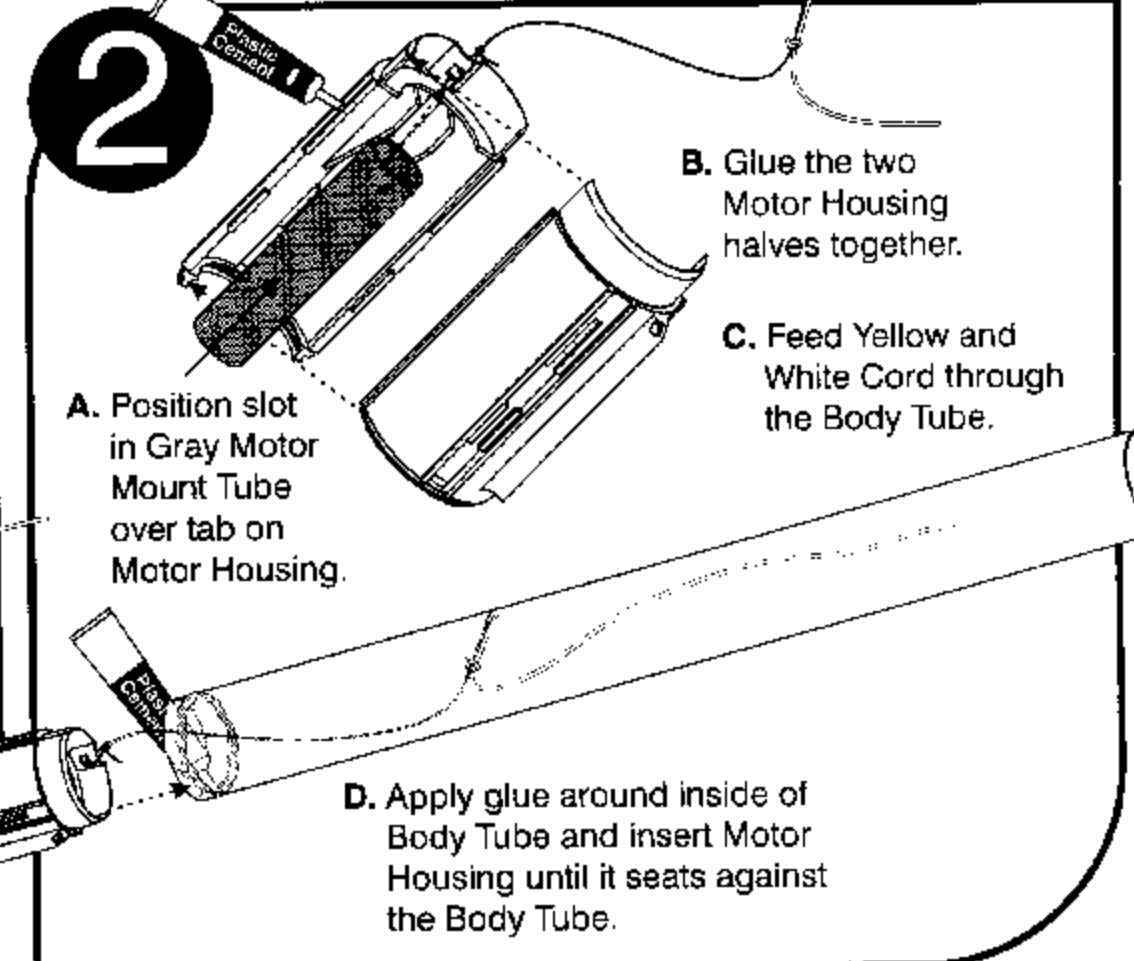
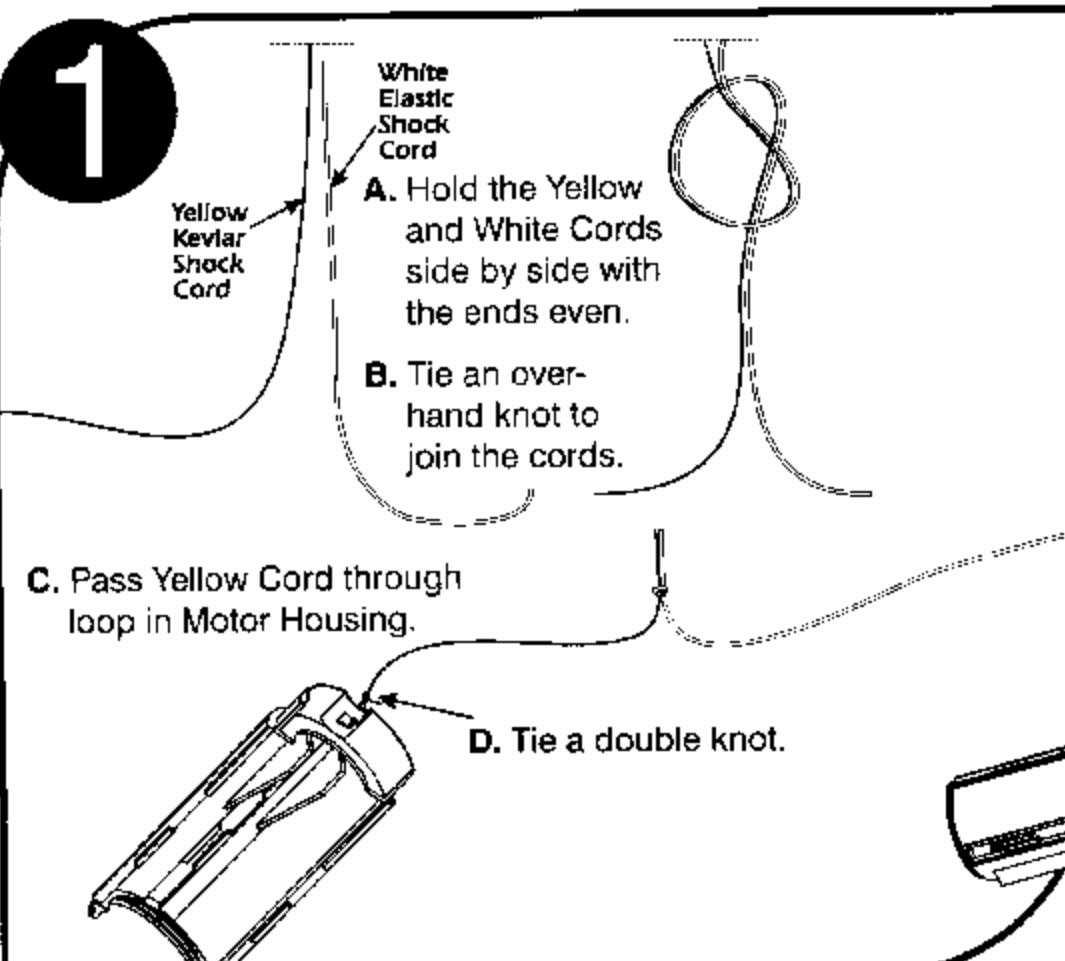
Yellow Shock Cord  
50053

Coupler  
21083

Coupler Base  
20305

14" Parachute  
28107 (2)

Decal Sheet  
3-01612-1030



**3**

A. Test fit all four Fins into the slots.

B. Remove each one, add glue and replace.

Check Fin alignment

C. Twist Fin Locking Ring onto rear of Motor Housing.

D. Tie a figure "8" knot in the loose end of the White Shock Cord with a 1 inch loop as shown.

**4**

A. Apply glue around inside edge of Coupler. Push Base into Coupler.

B. Apply glue around inside edge of Payload Tube. Push Coupler into Tube.

C. Position Nose Cone in end of Tube. DO NOT GLUE!

**5**

Repeat A-C for second Parachute

A. Place one Gripper Tab on each of the six corners on Parachute.

B. Firmly squeeze each Gripper to the Parachute with your fingers.

C. Tie Shroud Line with a double knot.

D. Attach ONE Parachute to eyelet in Coupler Base.

E. Attach ONE Parachute to loop in White Shock Cord.

**6**

A. Grab Parachute at center - pull gently.

B. Fold.

C. Roll.

D. Insert rolled Parachutes, then Shock Cord and slide Payload section in place.

PARACHUTES MUST SLIDE EASILY INTO THE TUBE.

**7**

A. Remove the self-adhesive decals one at a time.

B. Position on rocket.

C. Rub gently.

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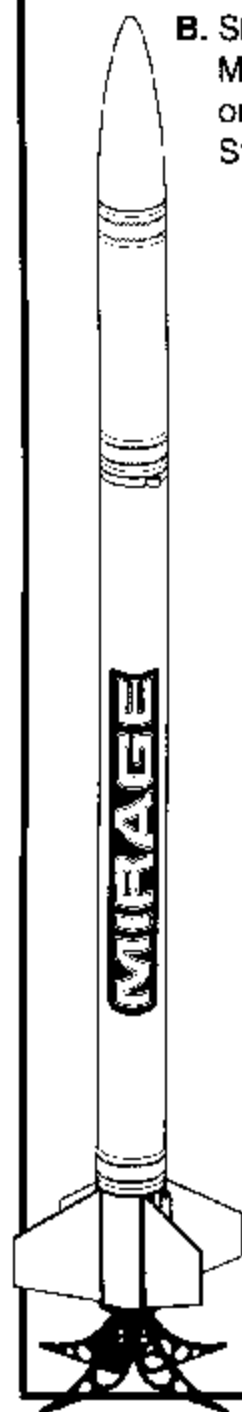
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## Displaying Your Rocket

- A. Slide two halves of display stand together.



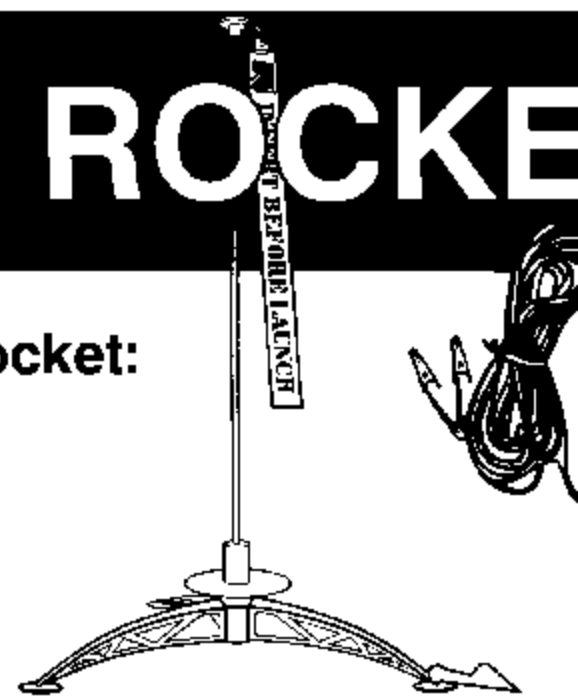
- B. Slide Rocket Motor Mount onto Display Stand.



# FLYING YOUR ROCKET

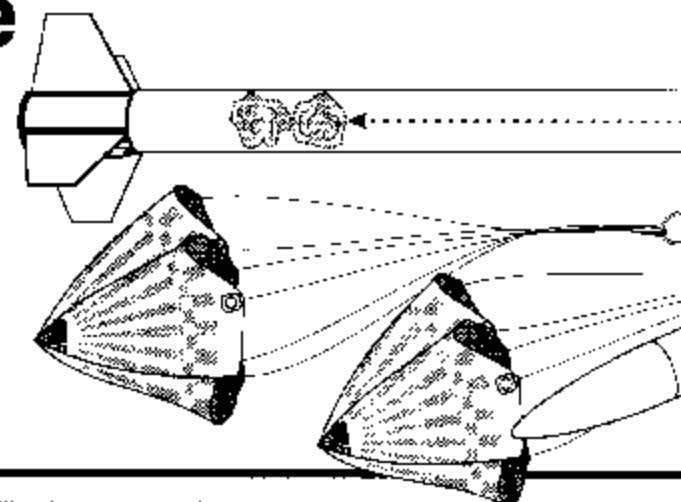
## Supplies You Will Need to Launch Your Rocket:

- Quest Launch Pad (No. 7610)
  - Quest Launch Controller (No. 7510)
  - Quest Parachute Recovery wadding (No. 7020)
  - Quest Rocket Motors Type A6-4, B6-4, C6-3, C6-5.
- Use A6-4 Motor for your first flights.*



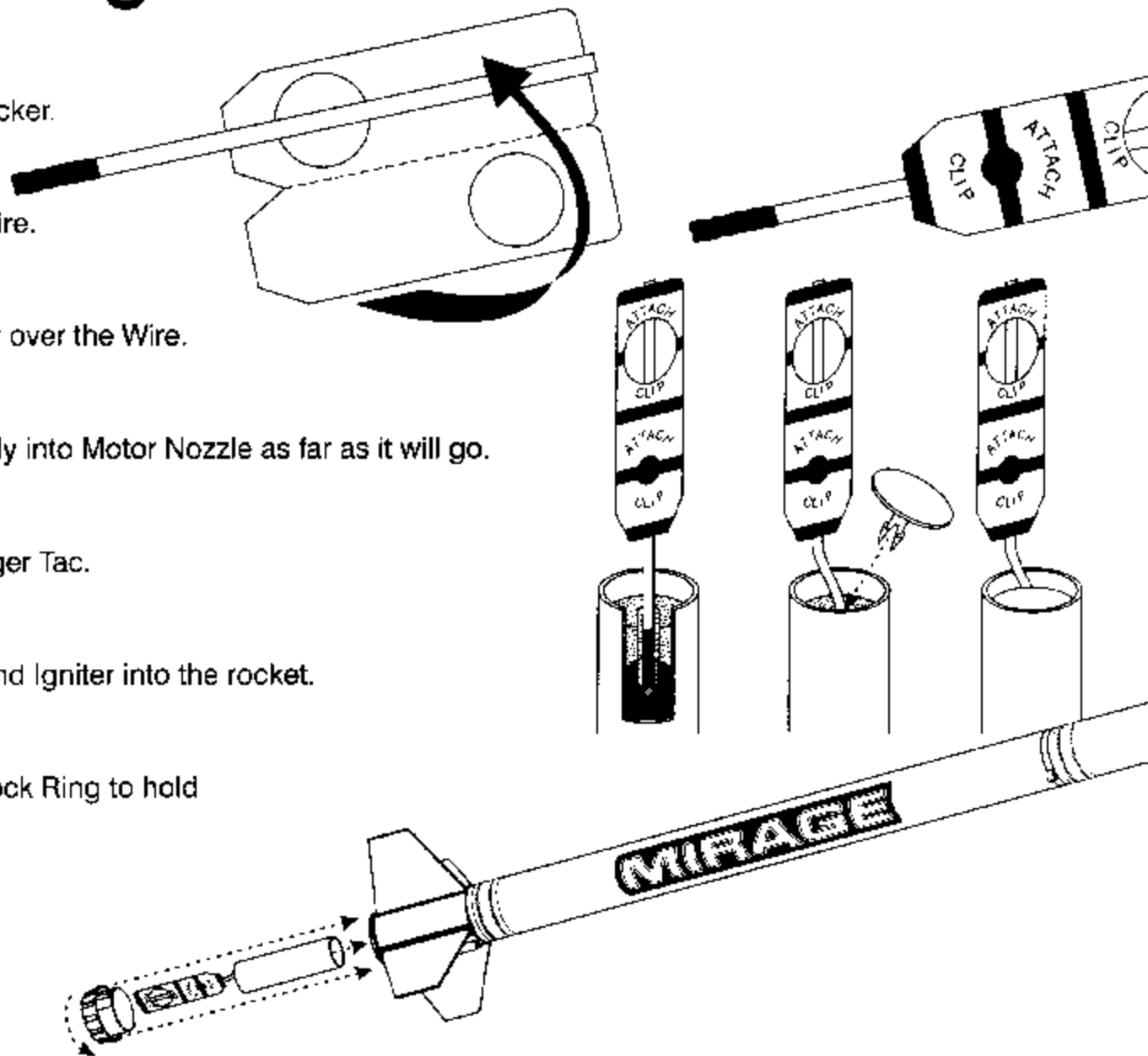
## 1 Pack Your Parachute

- A. Remove Nose Cone and Parachute.
- B. Crumple and insert THREE squares of Recovery Wadding.
- C. Re-pack Parachute, Shock Cord, and replace Nose Cone. See Step 6 of Assembly Instructions for Parachute folding.



## 2 Install Igniter and Rocket Motor

- A. Remove Tiger Tail Sticker.
- B. Center the Ignition Wire.
- C. Fold Tiger Tail Sticker over the Wire.
- D. Place Igniter Assembly into Motor Nozzle as far as it will go.
- E. Push in the plastic Tiger Tac.
- F. Insert Rocket Motor and Igniter into the rocket.
- G. Twist plastic Motor Lock Ring to hold Motor in place.



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Manufactured by:  
QUEST AEROSPACE  
A Division of  
MARVEL ENTERPRISES, INC.  
Yuma, AZ 85364

# 3 Launch Procedures

## Launch Site Selection:

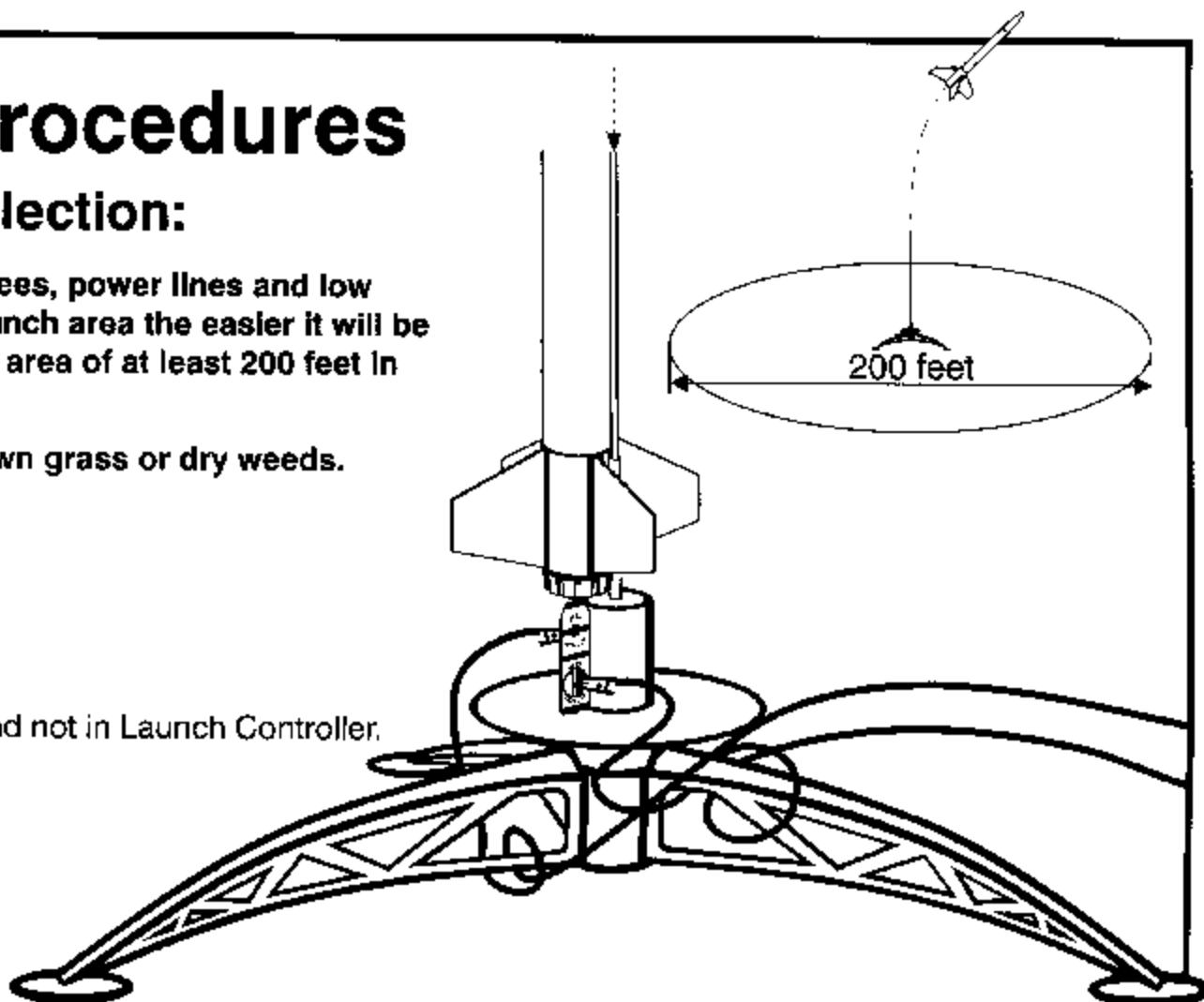
- Pick a large area away from tall trees, power lines and low flying aircraft. The larger your launch area the easier it will be to recover your rocket. A circular area of at least 200 feet in diameter is recommended.
- Launch area must be clear of brown grass or dry weeds.

A. Remove Rod Safety Cap.

B. Be certain Safety Key is with you and not in Launch Controller.

C. Slide rocket down Launch Rod.

D. Attach one micro clip to each hole where the igniter is exposed. Be sure that the clips do not touch each other.



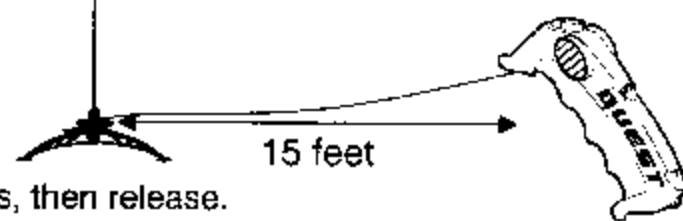
## Count Down Procedure:

A. Move yourself and all spectators away from Rocket and Launch Pad as far as the wire will allow (15 feet).

B. Wind conditions should be gentle. Make sure the sky is clear of low flying aircraft.

C. Insert Safety Key to arm Launch Controller.

D. In a LOUD voice, begin count down: 5...4...3...2...1...LIFT OFF!  
Press and hold the Launch button until the Rocket Motor starts, then release.



E. Remove the Safety Key from Launch Controller as soon as rocket lifts off.

F. Replace the Launch Rod Safety Cap between launchings.

## Misfire Procedure:

**If the rocket motor fails to ignite:**

A. Remove the Safety Key.

B. Wait ONE MINUTE before approaching the Rocket. Carefully remove rocket.

C. Remove rocket motor and old igniter. Install a new Tiger Tail Igniter in the Motor and reinstall.

D. Use a small emery board or sandpaper to clean the inside surfaces of the micro clips.

E. Repeat the Launch Procedure and Count Down.

Always follow the National Association of Rocketry, (NAR) Model Rocket Safety Code while using your model rocket. It is printed on the back of the package panel.

Customer Service:  
800 858-7302