

**PR** SERIES II **A JAYHAWK** 



Skill Level **EXPERT** 

9731

### **MODEL ROCKET INSTRUCTIONS**

#### **KEEP FOR FUTURE REFERENCE**

IMPORTANT: Please record date found on decal and keep for future reference.

READ ALL INSTRUCTIONS. Make sure you have all parts and supplies. Test fit all parts before applying glue. Refer to your glue manufacturer's dry times during build.

#### **SUPPLIES**



























HORRY KNIFF

DRILL

**EPOXY** 

YELLOW GLUE

Laser cut cardstock sheet x2

**CA GLUE** 

TAPE

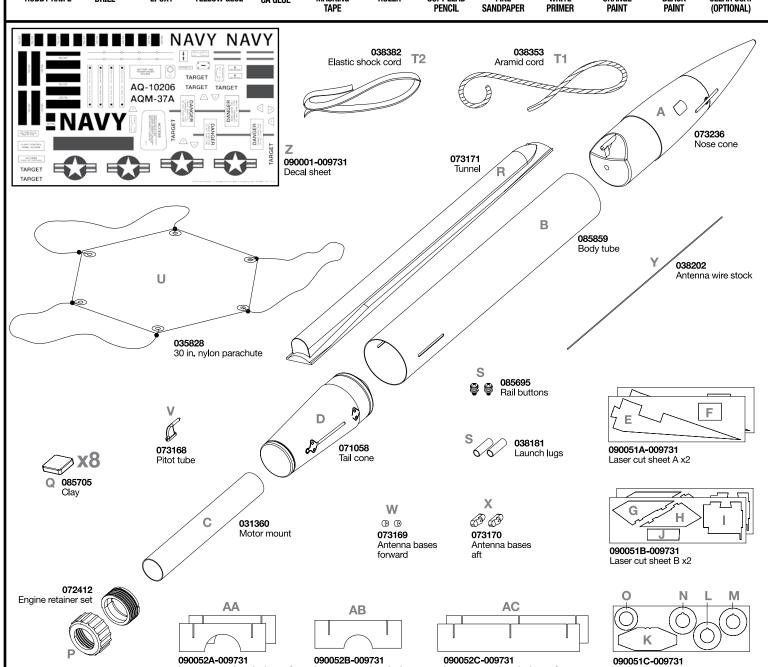
FINE SANDPAPER

WHITE PRIMER

ORANGE PAINT

BLACK PAINT

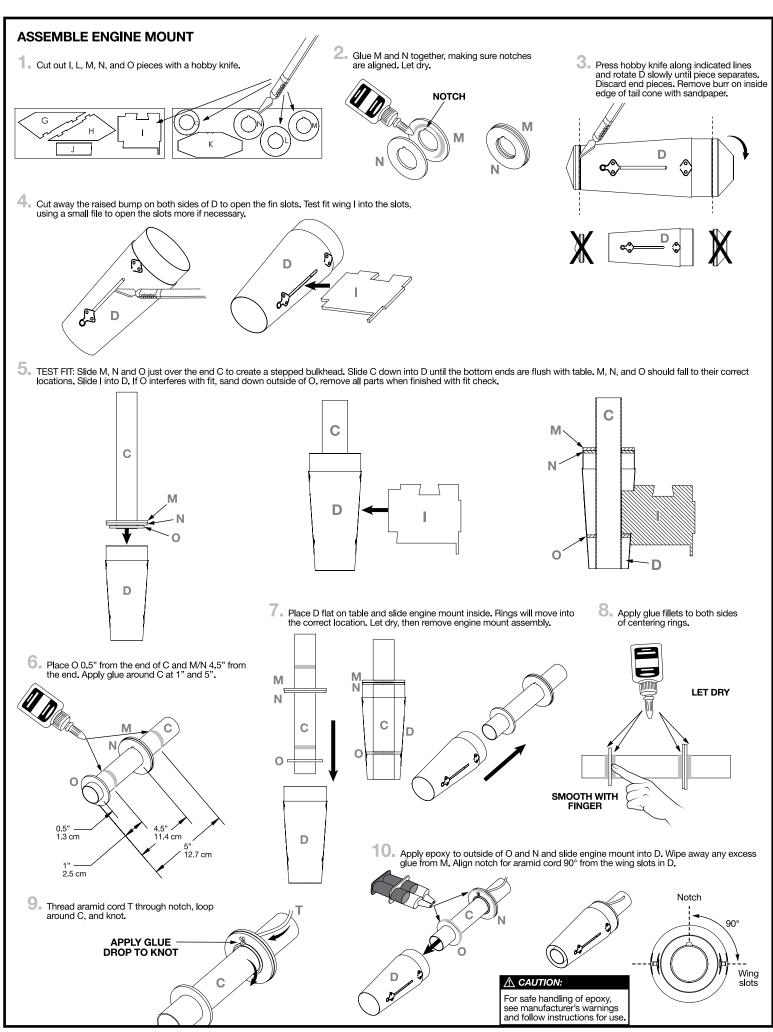
**CLEAR COAT** 

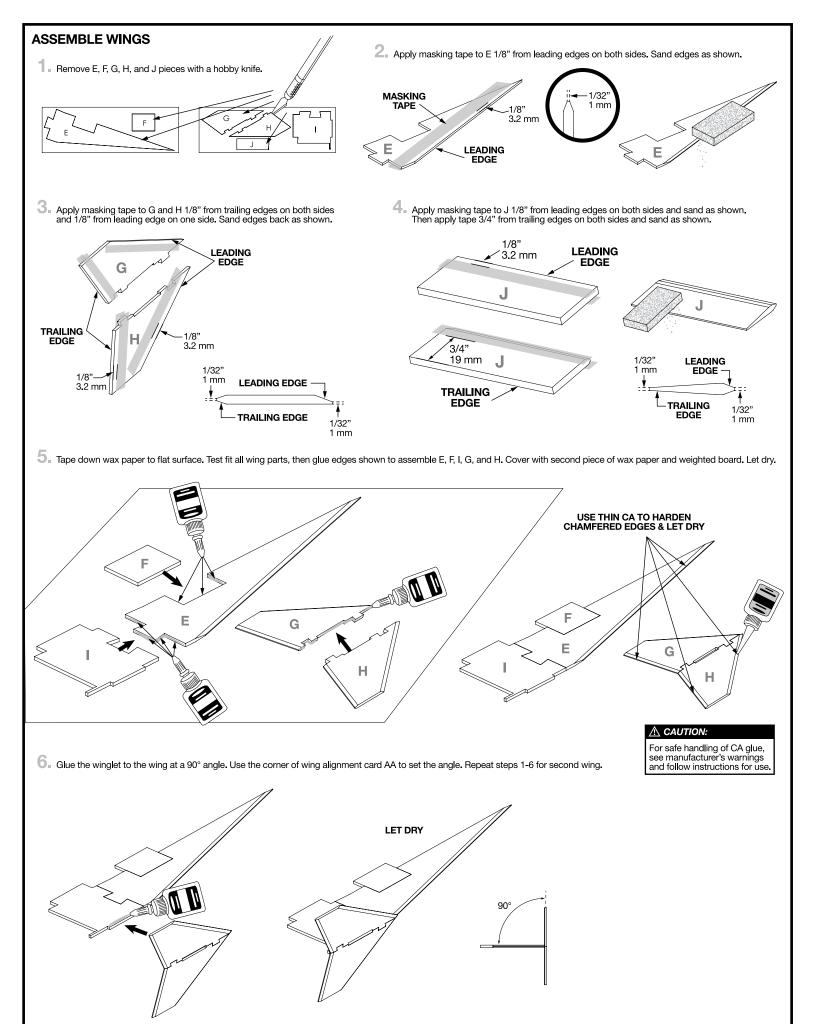


Laser cut cardstock sheet

Laser cut cardstock sheet x2

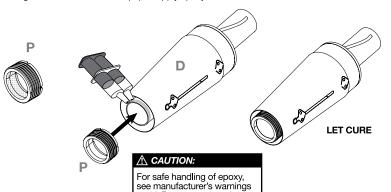
Laser cut sheet C





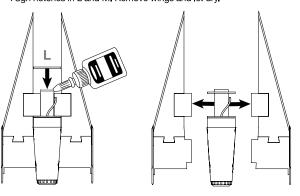


Roughen inside of P with sandpaper. Apply epoxy to tube C and slide notched end of P over tube.



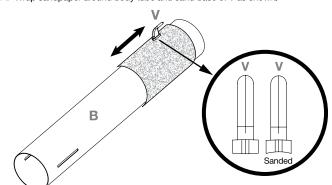
and follow instructions for use,

Insert wings into tail cone. Apply glue to top of C and slide L into place. Align notches in L and M. Remove wings and let dry.

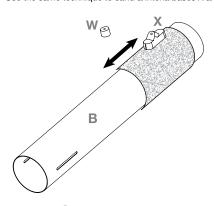


## PREPARE PITOT TUBE, ANTENNA BASE, & BODY TUBE

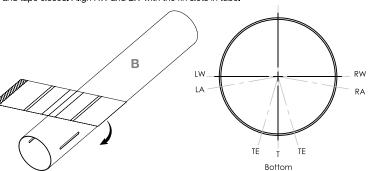
extstyle 1 . Wrap sandpaper around body tube and sand base of V as shown.



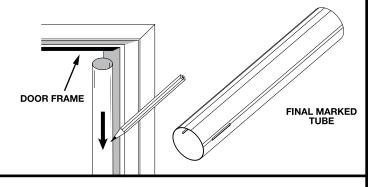
2. Use the same technique to sand anntena bases X and W.



3. Cut out fin marking guide on page 11. Wrap around body tube and tape closed. Align RW and LW with the fin slots in tube.



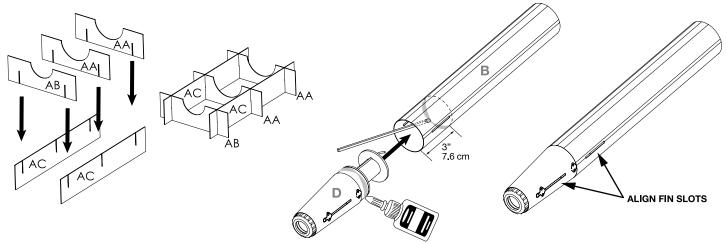
Top LL 4. Mark all lines and remove guide. Extend lines down length of body tube using door frame.

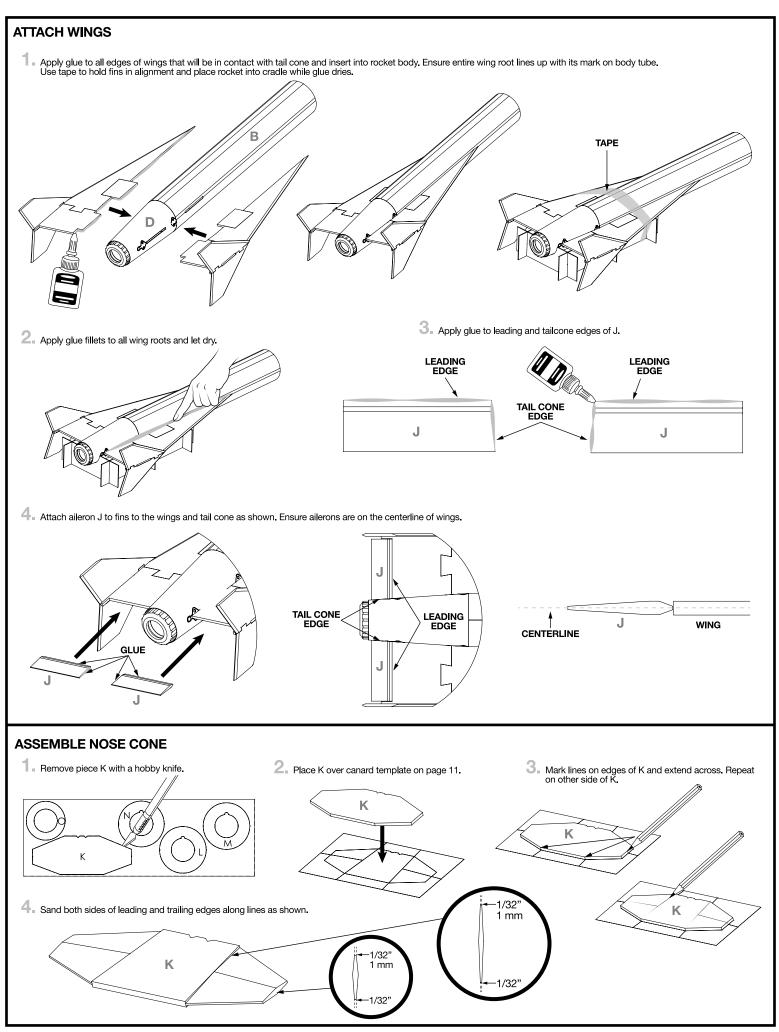


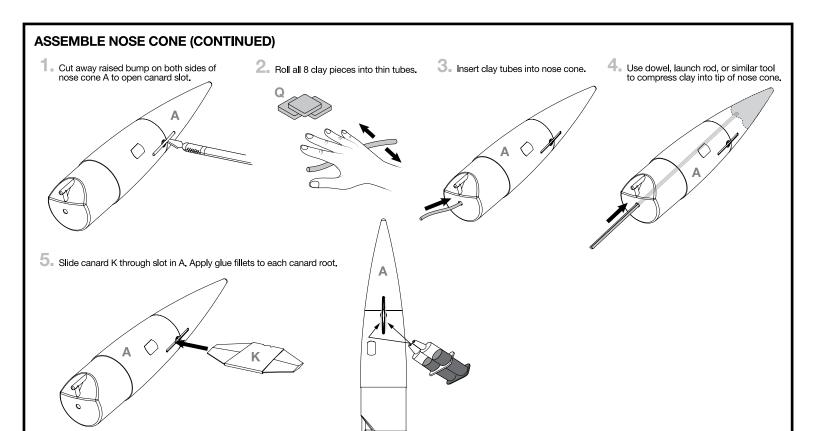
### ATTACH TAIL CONE

Assemble cradle with alignment cards as shown.

2. Apply glue to shoulder of tail cone D and 3" inside body tube B. Insert D into B and wipe away excess glue.

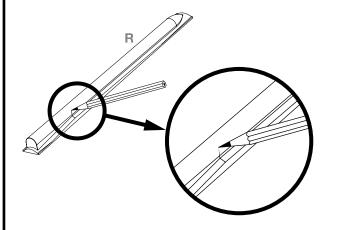






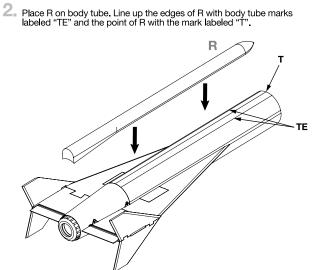
### **ATTACH TUNNEL**

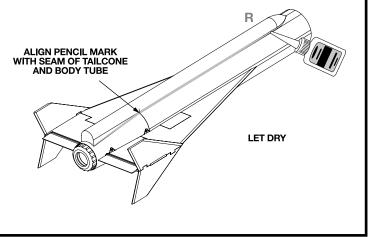
 $extstyle{\mathbb{1}}_{-}$  Mark tunnel R at indicated location. Carefully cut away excess material.



3. Apply thin CA to edges of tunnel R (only a small amount is needed - it will wick around all the edges).

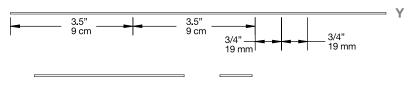
TRIM ALONG DOTTED LINE



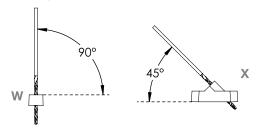


### **ASSEMBLE ANTENNAE**

f 1 Take anntena stock material Y and cut off two sections each 3.5" long and two sections each 0.75" long.

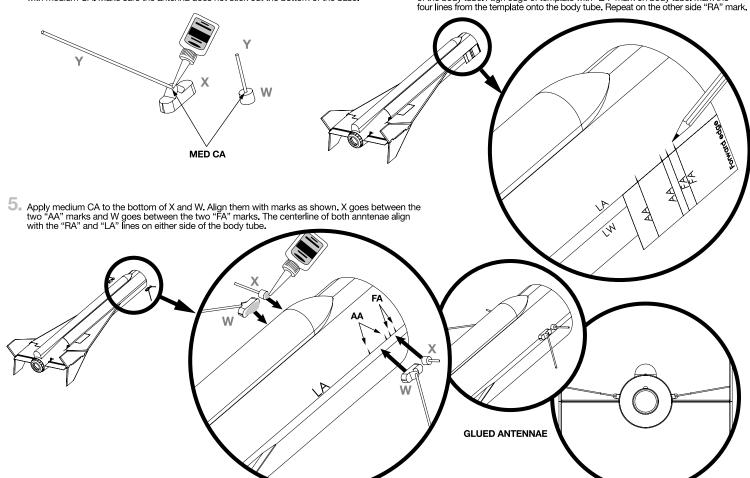


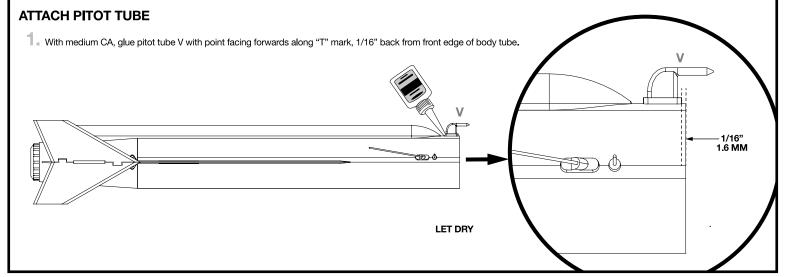
Use a 1mm or 3/64" bit to drill through antenna bases X and W at the angles shown. Start at the small divot on each antenna base.

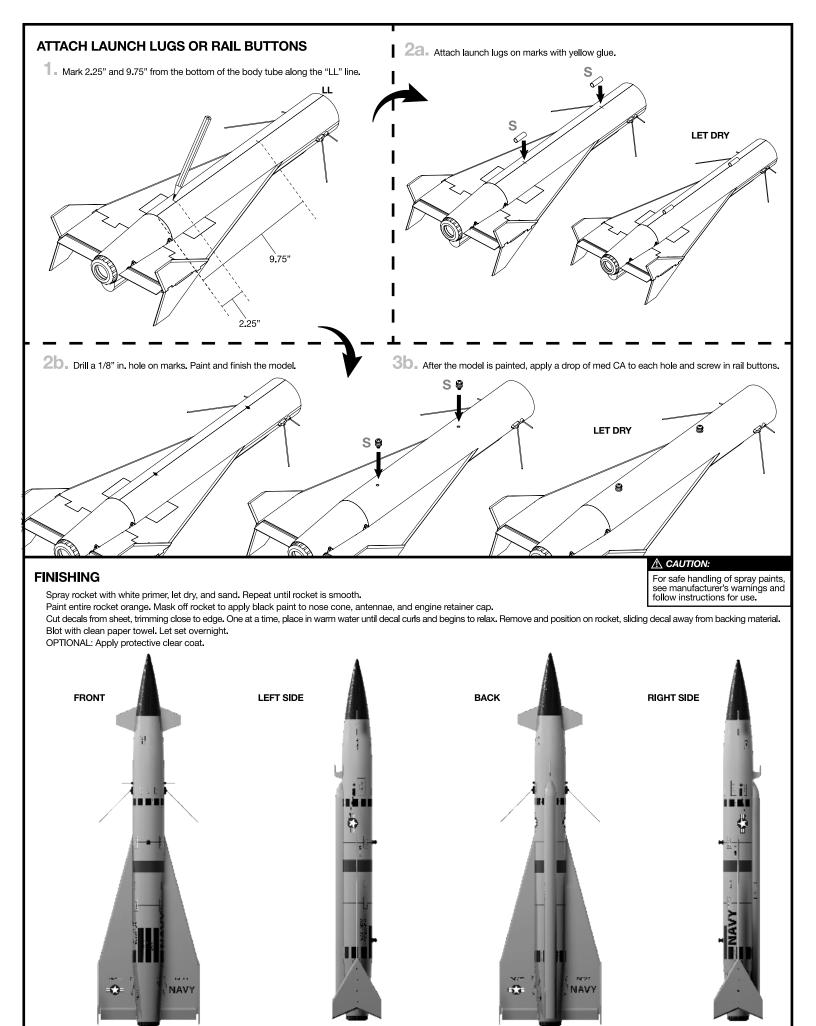


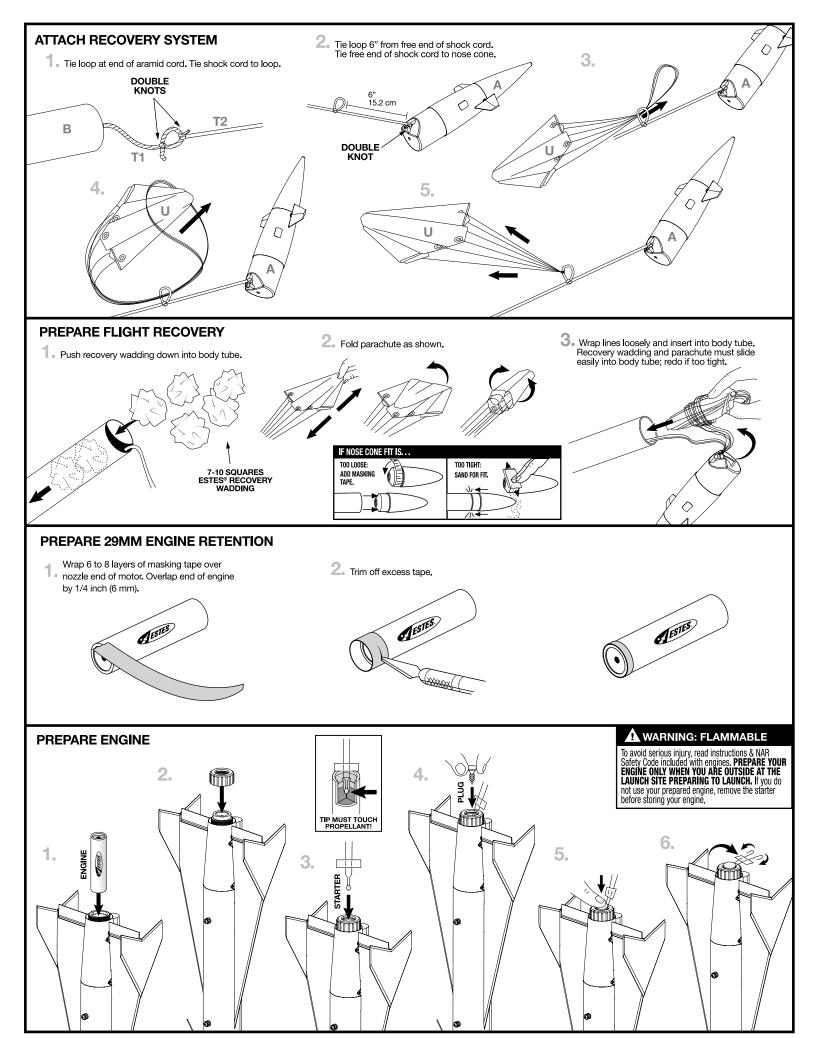
Insert the long antenna into X and the short antenna into W. Glue both pieces into place with medium CA. Make sure the antenna does not stick out the bottom of the base.

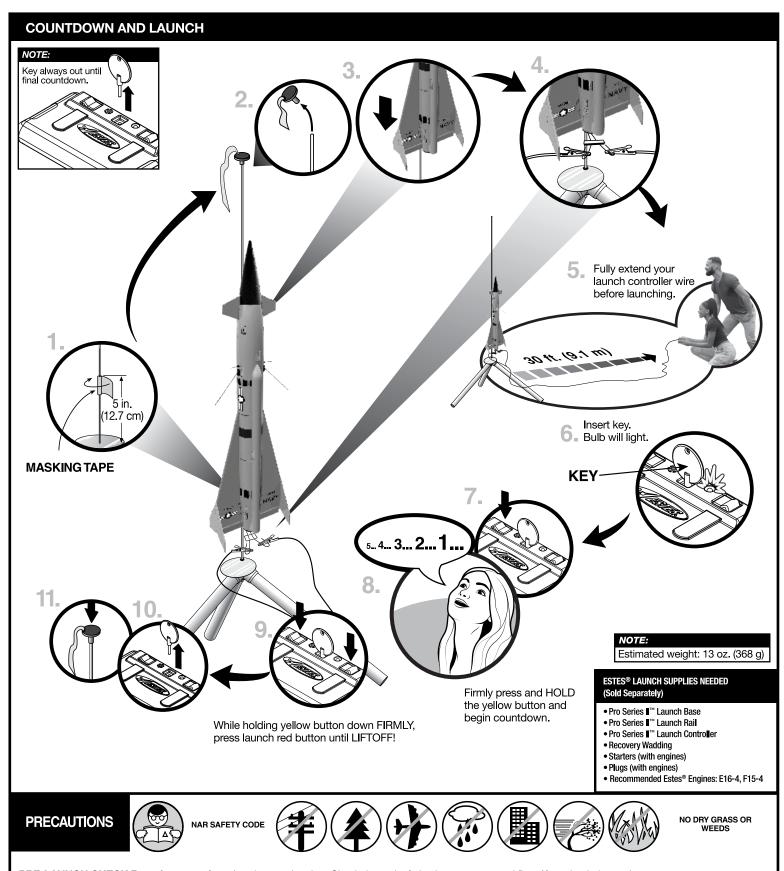
4. Line up the forward edge of antenna template on page 11 with the forward edge of the body tube. Align edge of template with "LA" mark on body tube. Mark the four lines from the template onto the body tube. Repeat on the other side "RA" mark.











**PRE-LAUNCH CHECK** For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

FLYING YOUR ROCKET Choose a large field (1000 ft. [305 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE (enclosed).

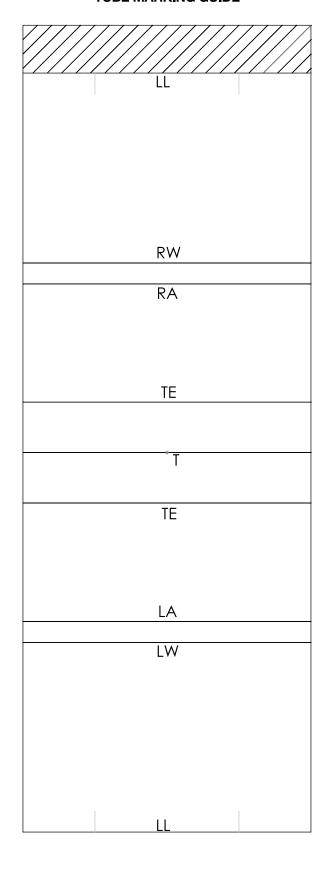
MISFIRES TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET. Disconnect the micro-clips and remove the engine. Take the plug and starter out of the engine. A burned starter means the starter tip was not touching engine propellant. Install a new starter; be sure the tip is touching propellant inside the engine. Push the plug in place. Repeat steps under Countdown and Launch.

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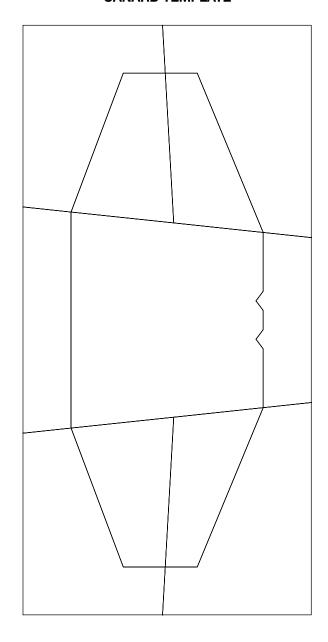
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# **TUBE MARKING GUIDE**



## **CANARD TEMPLATE**



# **ANTENNA TEMPLATE**

