



# Jayhawk™

Advanced Model

The AQM-37A Target Missile System was developed in 1959 by Beech Aircraft Corporation. The missile was in continuous use by the U.S. Navy since 1963 with over 3,500 targets having been destroyed during weapons development.

The Beech AQM-37A provided a wide variety of threat simulations for the defensive weapons development. It was used to simulate enemy airborne threats for optical, radar or infrared guided missile systems such as the Sidewinder, Standard and Improved Hawk.

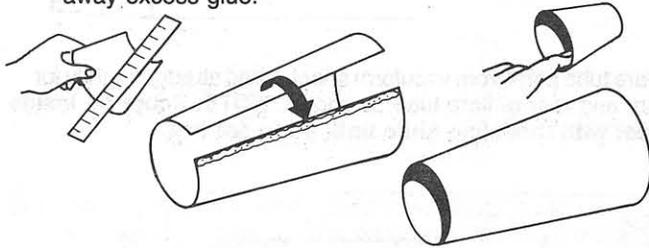
The AQM-37A Target Missile was an expendable rocket powered target missile that was developed to fly from Mach 0.7 to Mach 2.1 with an operational altitude from 15 meters (50 feet) to 2438 meters (7999 feet). It weighs 250 kg (565 pounds) and is 383 cm (150.8") long, 33 cm (13") in diameter, and has a highly swept clipped delta wing of 100 cm (39.5"). Pitch and roll control is maintained by canard surfaces mounted on the nose and full authority air brakes on the trailing edges. Swept fixed vertical stabilizers are mounted on each wing tip.

This model is a 1/5 scale model of the Navy version of the AQM-37A target drone. The AQM-37A was used by all three branches of the service and each gave it its own "working name." The Navy called theirs the Jayhawk.

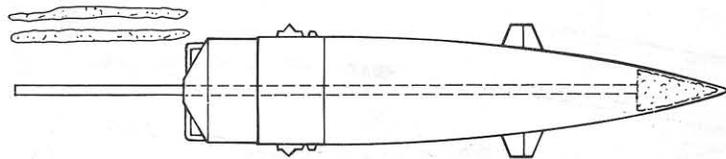
In order to complete the assembly of the rocket components supplied in this kit, you will need: a pair of scissors, a pencil, sandpaper, either Titebond Glue or Epoxy (six or ten minute type), a bottle of contact cement; a modeling knife, a paint brush, enamel spray paint of your choice, masking tape, sanding sealer or surface coat epoxy and waxed paper. Read all instructions carefully and test-fit all parts together before applying any epoxy glue. If there are any parts that do not fit, sand as required for proper fit.

**KIT**

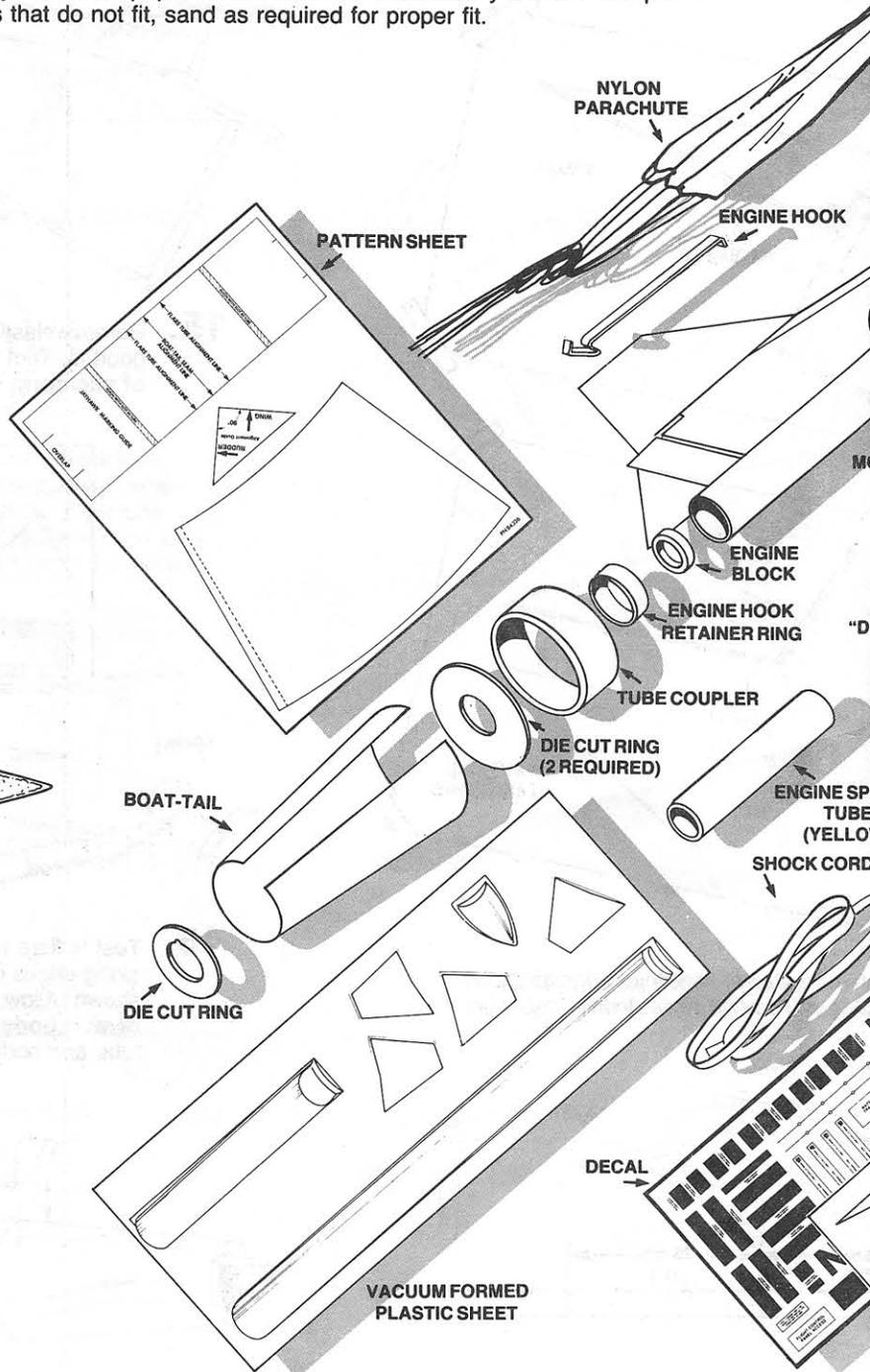
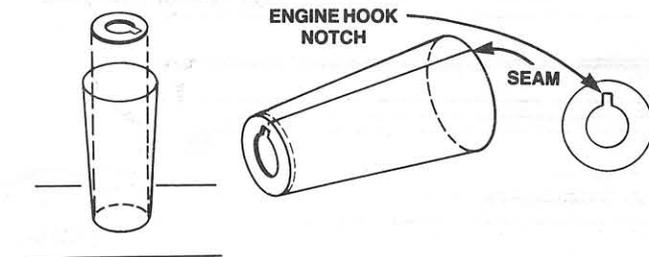
1. Cut out the paper boat-tail from the pattern sheet, cut on solid black lines with a sharp modeling knife. Pre-curl the paper by **gently** pulling up from under a ruler on a clean, flat surface. Form into a cone and apply glue to the glue tab. Line up the edge of the paper with the dotted line on the glue tab, and press together on a flat surface. Wipe away excess glue.



2. Locate the clay weights and the nose cone. Form clay into thin "worms" and insert one into the open end of the nose cone. Use a wooden dowel or pencil to tamp the clay into the front of the nose cone as far as possible. Tamp all the clay into the nose cone.



3. Stand the boat-tail on end with the smaller opening down. Drop the smaller diecut ring from the diecut ring sheet into the boat-tail. Line up the engine hook notch in ring with the seam on the boat-tail. Tamp ring gently into place so ring is flush with edge of boat-tail. Make sure the engine hook notch in ring is still lined up with the seam on the boat-tail. After you are sure of the alignment, apply a fillet of glue along inside of ring/boat-tail joint.



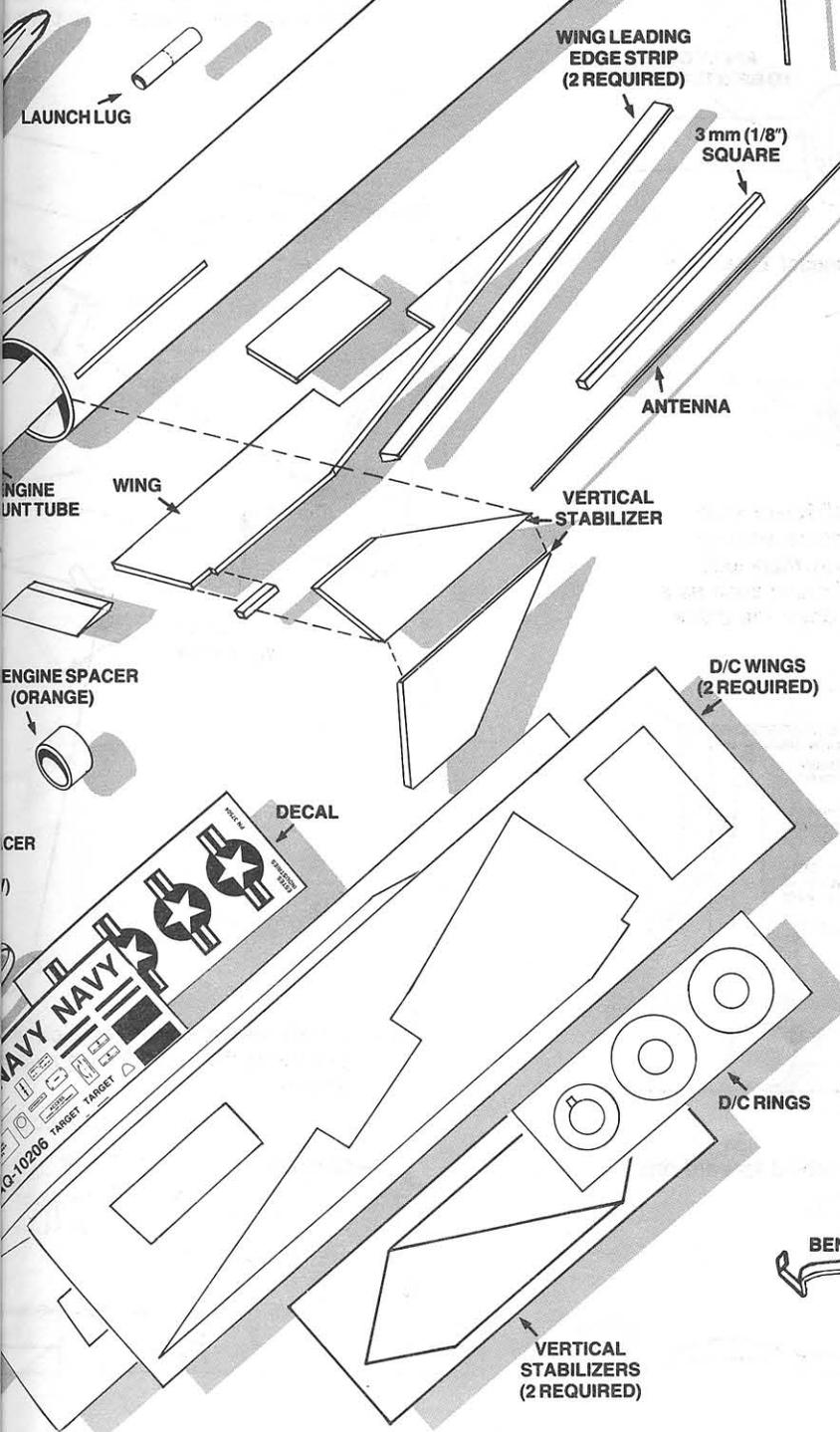
# Rocket

This supersonic target launched in support of

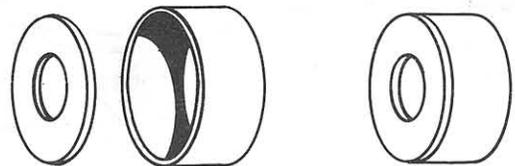
systems crews. It was Sparrow III, Falcon,

able of flying missions (10,000 feet) It weighs 256 grams and has a wing with a span of 100 mm. The ailerons located on the wings provide lateral stability. The M-37A was used in all tests.

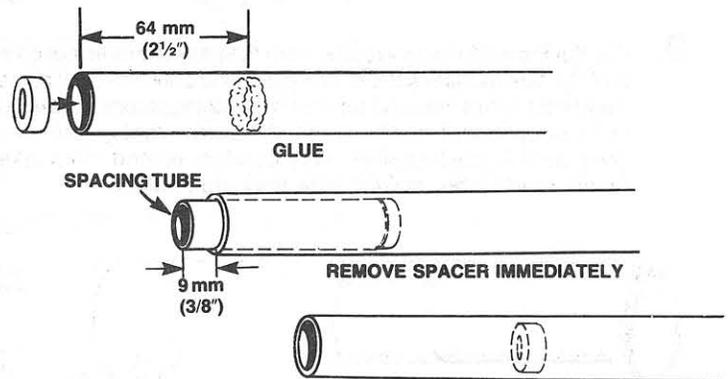
2085



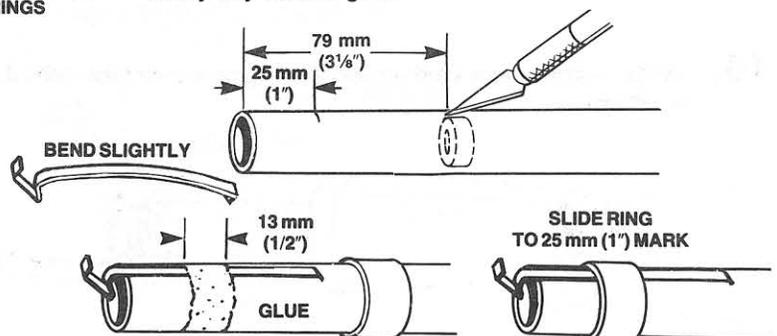
- Remove one of the two identical centering rings from the diecut plywood sheet. Glue one of the rings to the tube coupler as shown. Make sure the ring is flush with the coupler all the way around.



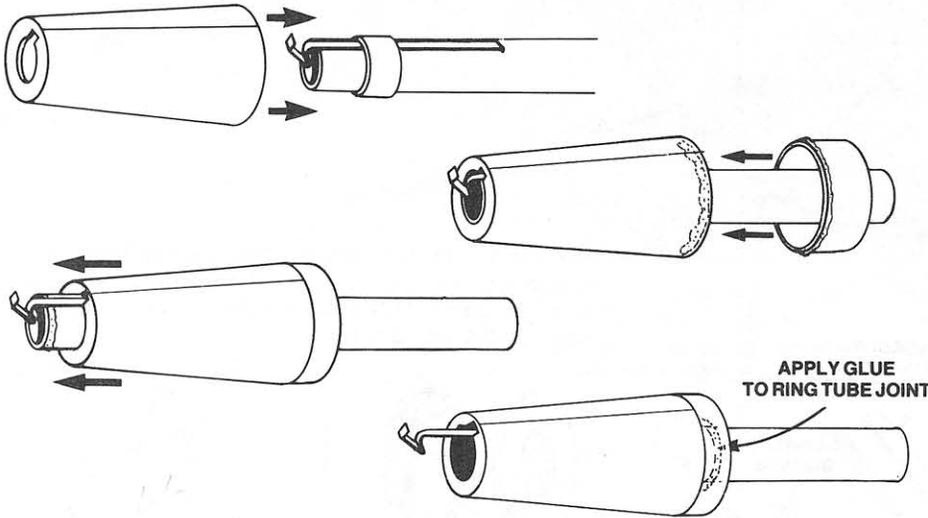
- Apply glue to the inside of the engine mount tube about 64 mm (2 1/2") from the end of the tube. Insert the engine block into the end of the tube. Using the yellow engine spacer tube, push the block into the tube until 9 mm (3/8") of the spacer tube remains showing. Remove the spacer tube immediately before glue sets.



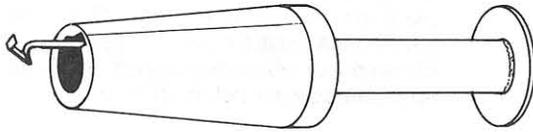
- Mark the engine mount tube 25 mm (1") and 79 mm (3 1/8") from rear of the tube. With a sharp hobby knife, make a 3 mm (1/8") slit at the 79 mm (3 1/8") mark. Bend the engine hook slightly and insert the forward end into the slit as shown. Apply glue forward of the 25 mm (1") mark for about 13 mm (1/2"). Slide the black engine retainer ring down to the 25 mm (1") mark over the glue. Wipe away any excess glue.



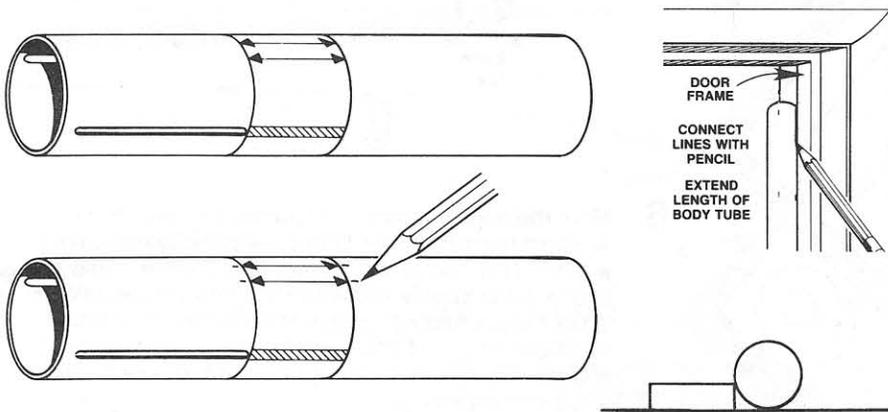
- 7.** Slide boat-tail onto the engine mount tube from the rear end. Slide tube coupler assembly onto mount tube and test fit into the boat-tail. Slide tube coupler assembly back, apply a ring of glue just inside front edge of boat-tail and slide tube coupler back into place. Slide boat-tail assembly forward on engine mount tube and apply a small amount of glue to the end of mount tube. Slide boat-tail assembly back until end of tube is flush with boat-tail assembly. Apply a ring of glue around the forward boat-tail ring/mount tube joint.



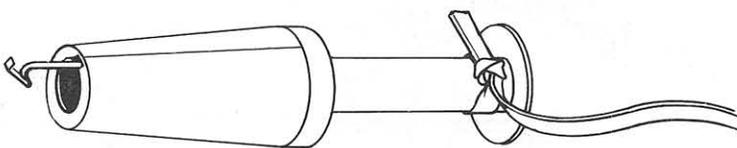
- 8.** Glue the remaining plywood ring to the front of the engine mount tube flush with end of the tube.



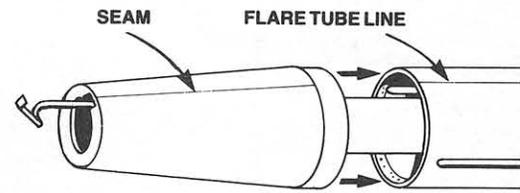
- 9.** Cut out the tube marking guide from the pattern sheet, cut on solid black lines with a sharp modeling knife. Wrap guide around the tube and secure with tape. Align the slots of the body tube with the slot locations on the guide. Mark tube at all arrow points as shown. Find a convenient groove or channel such as a door jamb or open drawer. Very carefully extend the marks down the entire length of the tube, making sure they are straight.



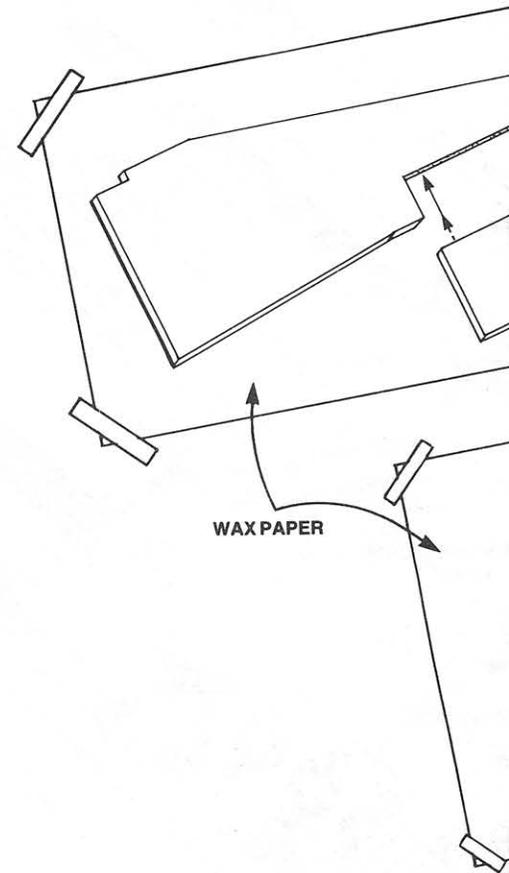
- 10.** Tie the elastic shock cord around the engine mount tube behind forward ring as shown.



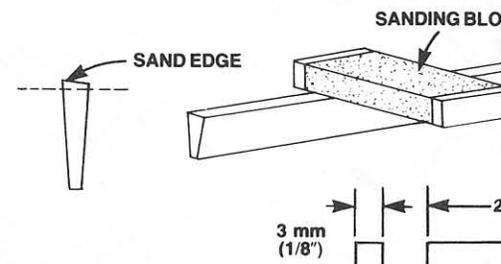
- 11.** Test fit boat-tail/engine mount tube with the shock cord through the body tube center line. Remove assembly part from body tube. Pull shock cord tight at front place. Make sure boat-tail seam is



- 12.** Carefully remove balsa wing sections together, sand flat all straight sections together properly. Lay a piece of wax paper over the parts together. Repeat this procedure

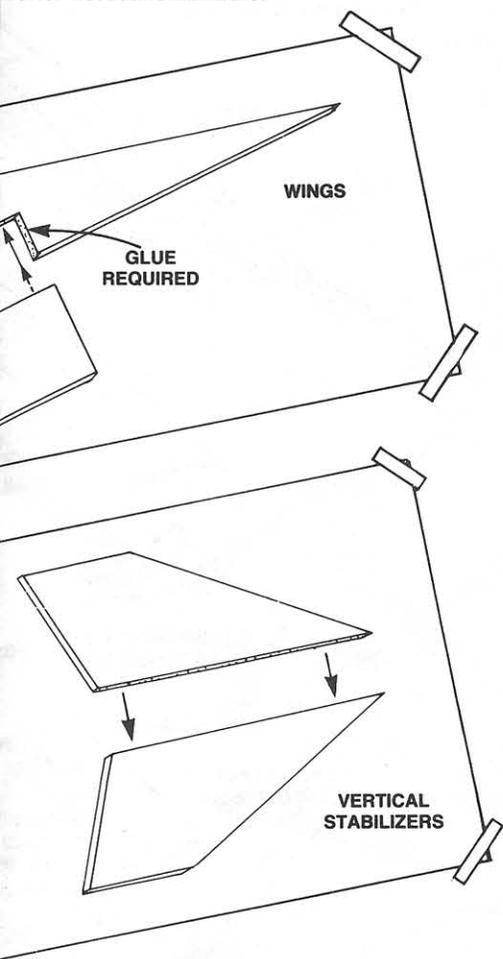


- 13.** Locate the two leading edge pieces. Locate the 3 mm (1/8") square wood block shown.

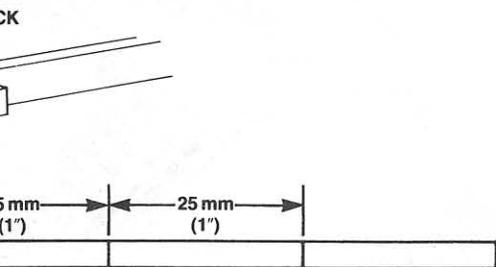


assembly into the main body tube. Feed  
tube. Align seam of boat-tail with flare tube  
way, apply glue around inside edge of main  
point of tube as you push assembly back in  
aligned.

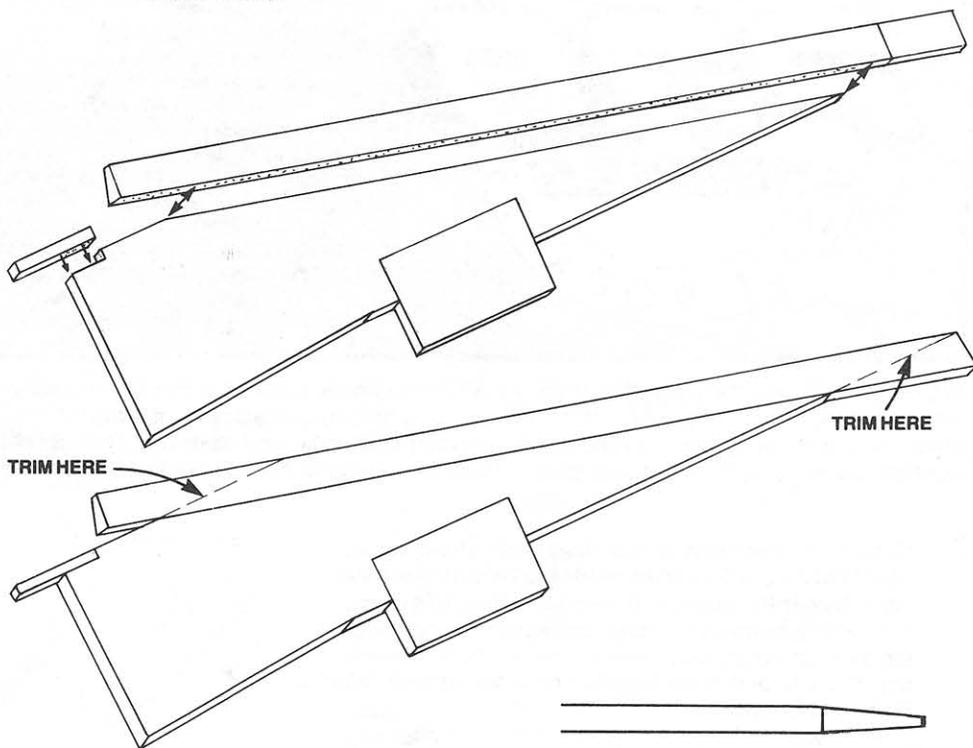
ions from diecut sheets. Holding identical  
nt edges. Test fit parts making sure they fit  
axed paper on a flat surface and glue wing  
ure for vertical stabilizers.



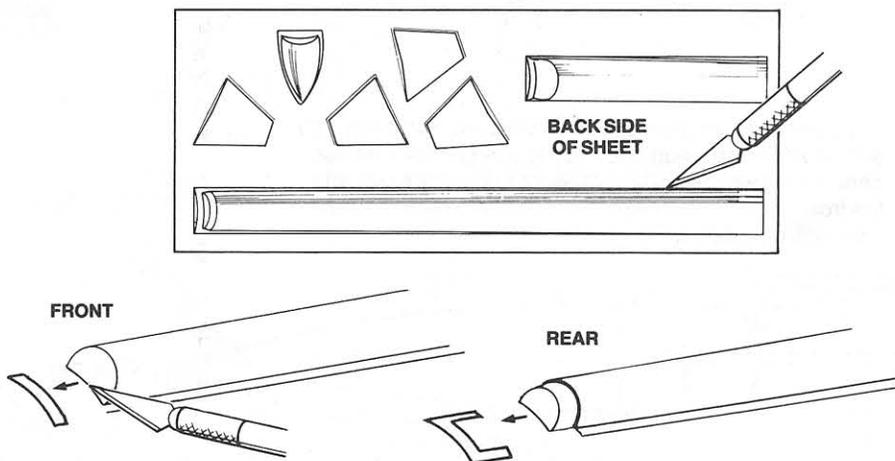
of wood. Gently sand thick edge as shown.  
strip and cut two pieces to the dimension



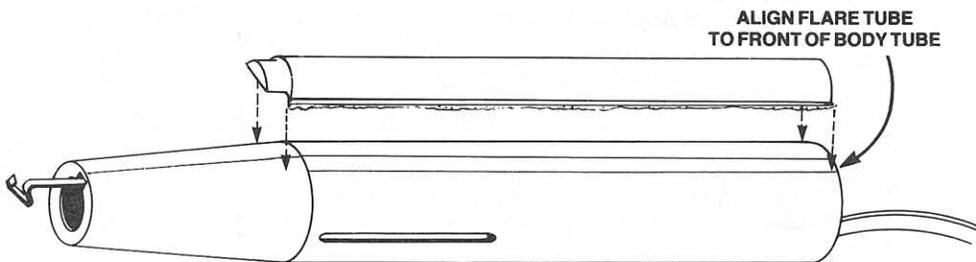
14. With the wings still over the waxed paper, glue the 3 mm (1/8") wood strips into notch and leading edge pieces to wings. When glue is dry, trim leading edges to shape as shown. Make sure bevel of leading edges are correct, sand if necessary.



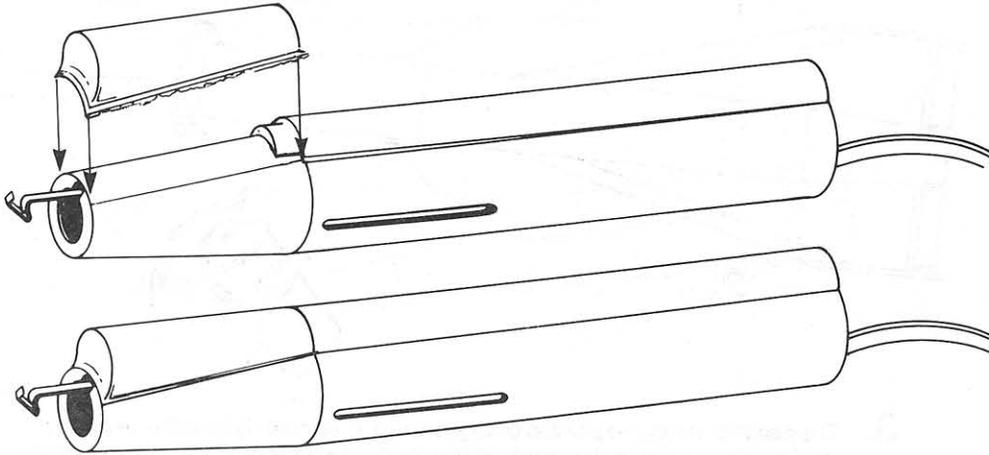
15. Remove plastic flare tube parts from vacuform sheet. Sand all edges lightly for good fit. Trim front and rear of flare tube as shown. **NOTE: Score on inside of vacuform sheet with modeling knife until parts are free.**



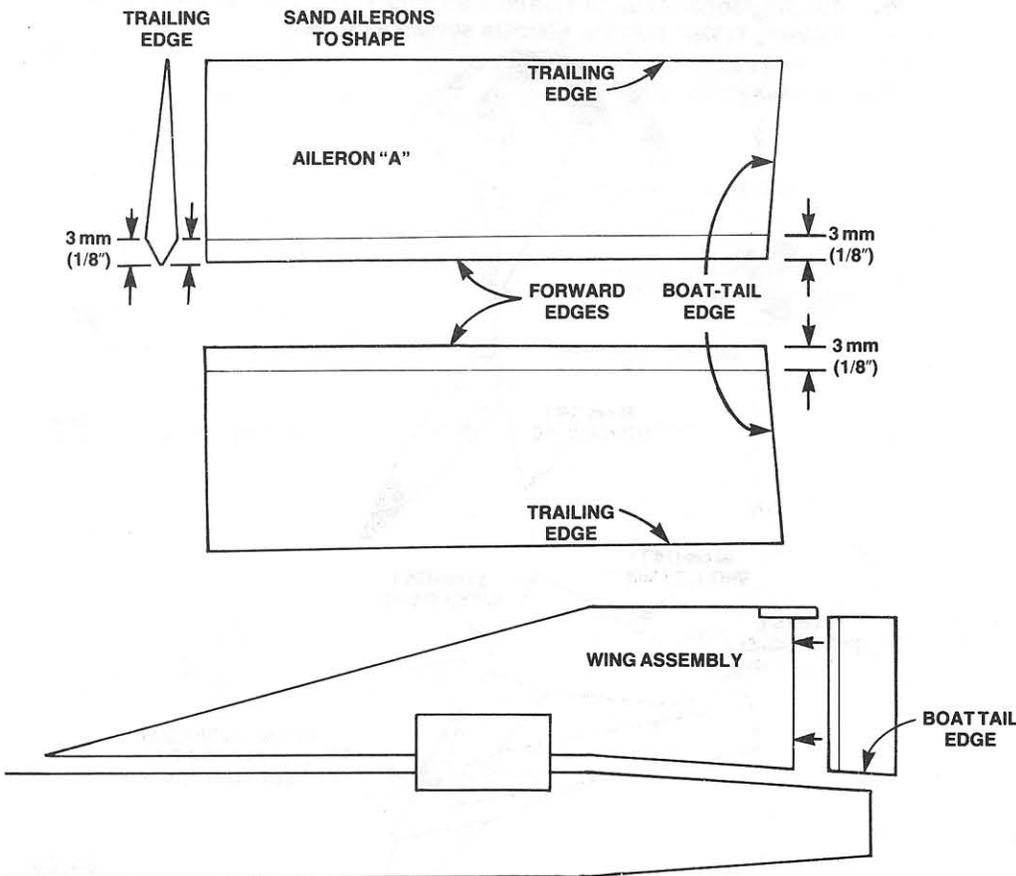
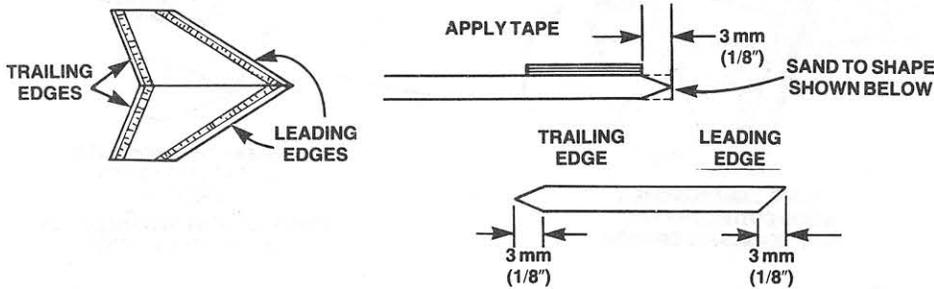
16. Test fit flare tube onto main body tube. Remove and apply contact cement along edges of flare tube and along alignment lines on main body tube as shown. Allow cement to become tacky. **Align front of flare tube with front of main body tube** and position flare tube onto cement area of tube. Hold flare tube and body tube together until cement sets.



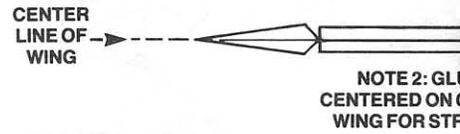
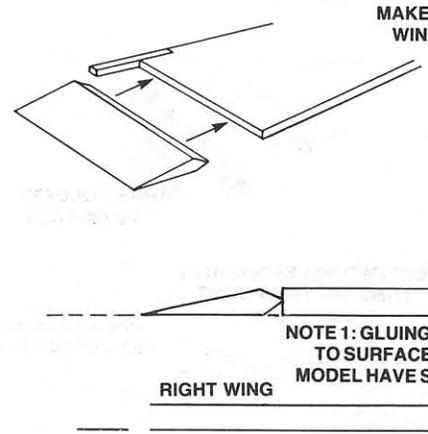
17. Test fit flare tube rear shroud onto boat-tail. Hold part in place and draw around part with a pencil on the boat-tail. Remove part and apply contact cement to part edges and boat-tail. Position part onto boat-tail and hold until glue sets.



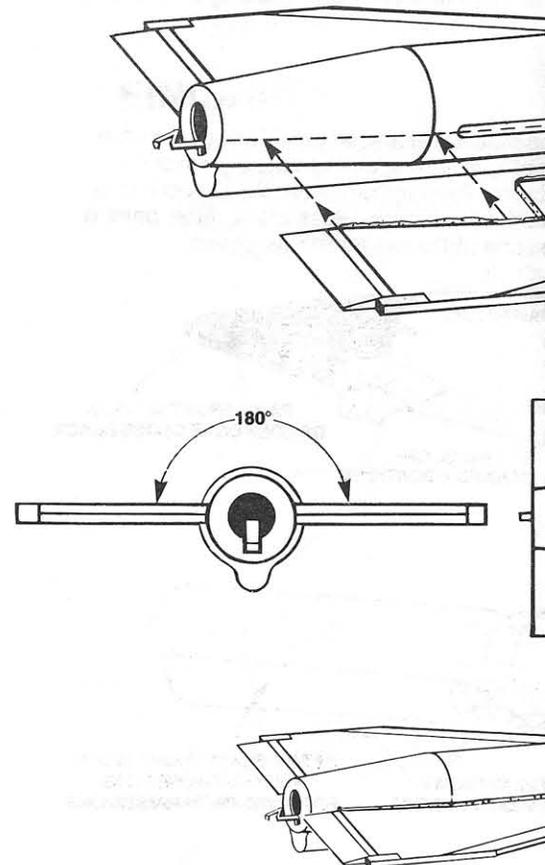
18. Apply three to four layers of masking tape 3 mm (1/8") back from trailing and leading edges of rudders as shown. Sand rudders to shape as shown. Sand only one leading edge of each rudder. Sand aileron parts to shape shown using the technique below.



19. Glue ailerons to wing assemblies at the angle of the ailerons when gluing to flight. Make two identical wing assemblies. Make flight path straight with no spiral, be center line.

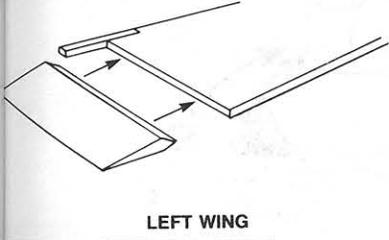


20. Test fit wing assemblies into slots of m... and apply a line of glue to the root edge... align wing straight along tube. Repeat... straight along tube and straight across... dry, apply a glue fillet along wing/b...



shown. NOTE 1: It is important to note them in place so rocket will have a spiral effect. NOTE 2: If you wish to make the sure to align ailerons straight with wing

TWO IDENTICAL ASSEMBLIES



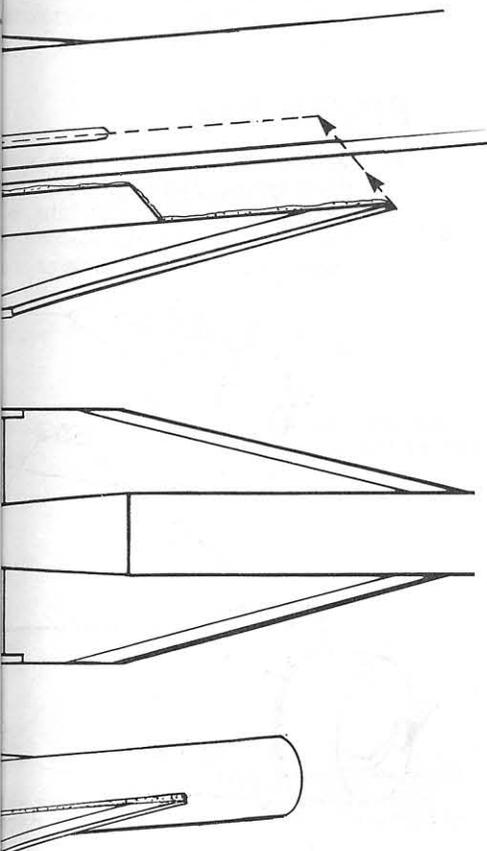
LEFT WING

AILERON FLAT WILL MAKE SPIRAL FLIGHT

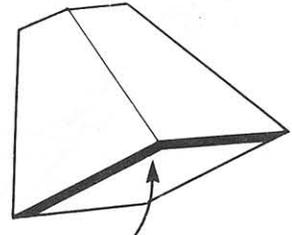
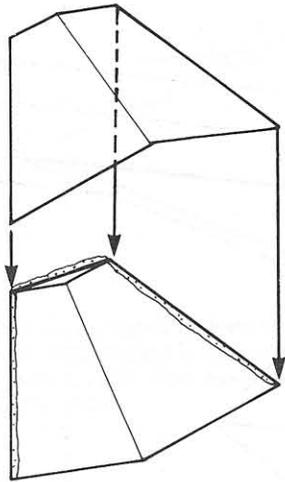


AILERON CENTER LINE OF FLIGHT

main body tube. Sand if necessary. Remove tip of one wing. Slide it into the slot and match it with other wing. Make sure wings are flush with each other. When glue is completely dry, tube joint.

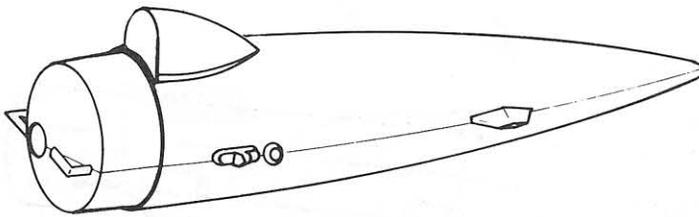
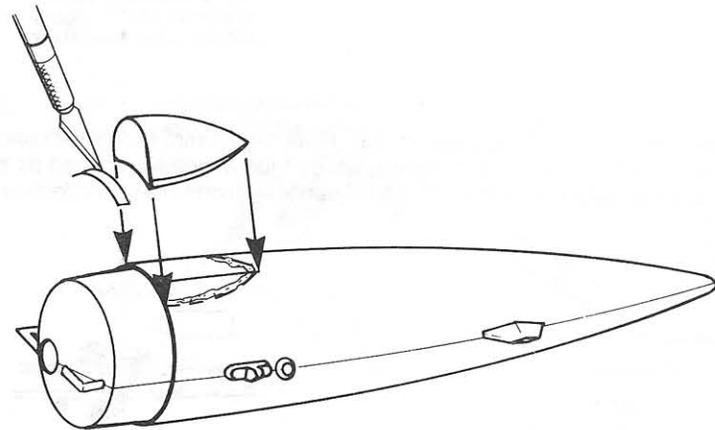


**21.** Remove the four canard halves from the vacuformed sheet, using the same method as in step 15. Sand edges smooth. Arrange canard halves into matched sets. Apply plastic cement to two matched halves outside edges, align and press firmly together. Set assembly aside to dry. Repeat assembly process with remaining canard halves.

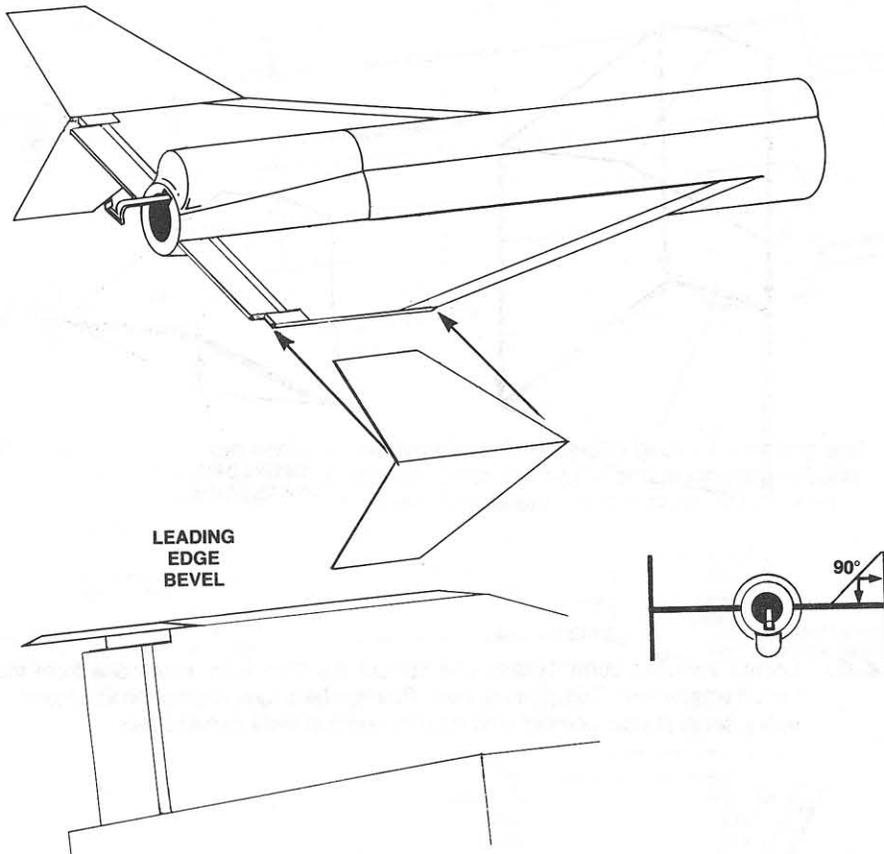


THIS END OPEN TO FIT ON NOSE CONE

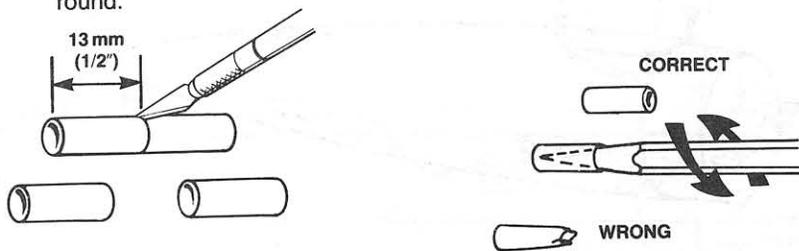
**22.** Locate the nose cone. Locate and cut out the flare tube nose cone from the vacuformed sheet. Trim lip as shown. Position flare tube nose cone as shown, apply liquid plastic cement and hold in position until cement sets.



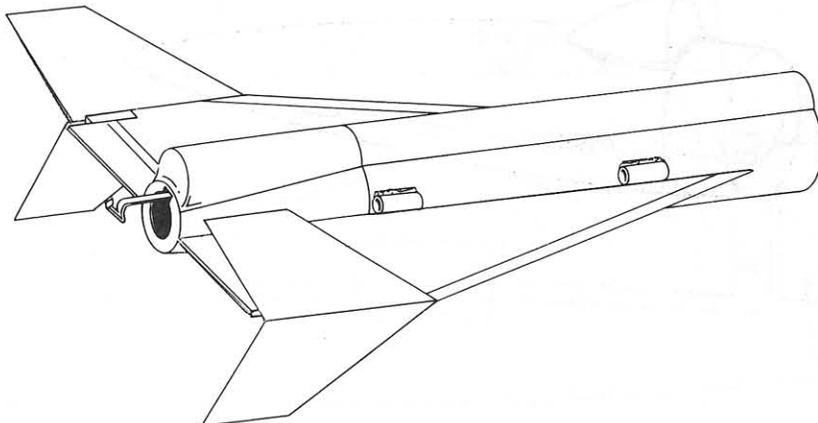
- 23.** Cut out alignment guide from pattern sheet. Apply a line of glue to the outside edge of a wing. Using the seam in the rudder as a guide, glue rudder to the outside edge of wing. Be sure the leading edge bevel of the rudder is facing away from the model. Align the rudder carefully at 90° with alignment guide and allow to dry. Repeat step with other rudder.



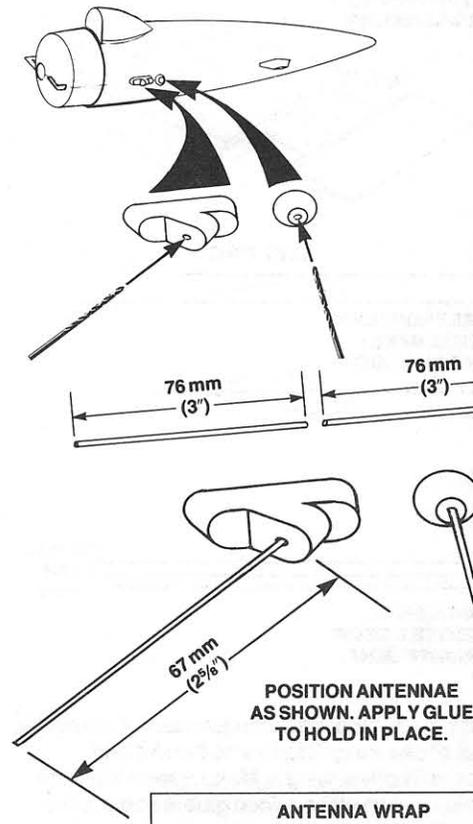
- 24.** Locate the 25 mm (1") long launch lug. Mark lug 13 mm (1/2") from one end. Cut lug in half with a sharp modeling knife. If lug becomes crushed by the cutting, simply place launch lug on end of pencil and rotate back and forth until round.



- 25.** Glue launch lugs into the body tube/wing joint as shown.



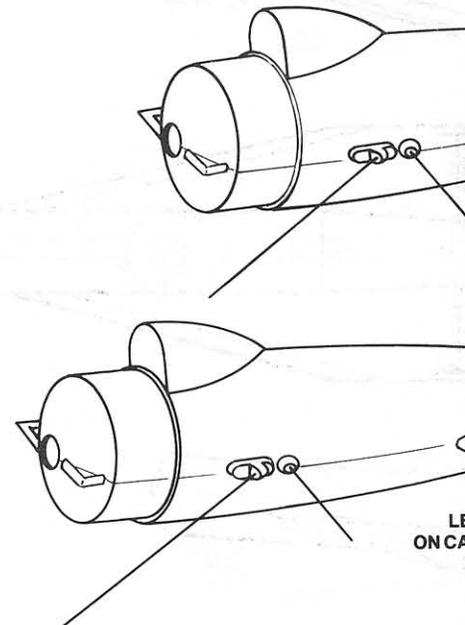
- 26.** Clean all the flash from around the antenna holes with a sharp knife. Carefully make a hole in the antenna wrap with a small drill bit of the appropriate diameter. Cut the antenna filament to the lengths shown. Carefully glue the antenna holes if needed. Holes should be at the same distance from the nose and glue to antennas as shown.



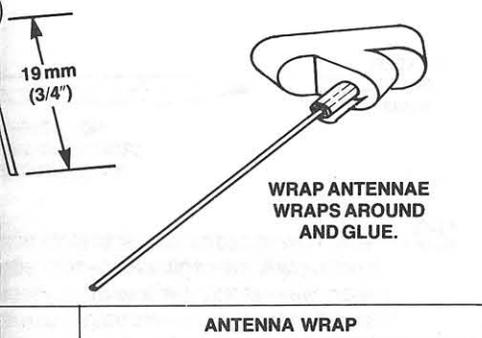
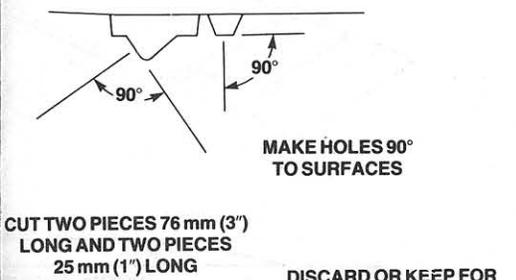
- 27.** Apply sanding sealer to all wood surfaces. Allow to dry, lightly sand all sealed surfaces. The grain is filled and smooth.

## FINISHING

- 1.** Wash plastic nose cone in soapy water to remove any dust that might be left. This will keep the plastic from becoming glossy. Wash nose and canard location tabs as well. Wash nose cone gloss black. Recommended primer thoroughly dry, mask off tip of nose.

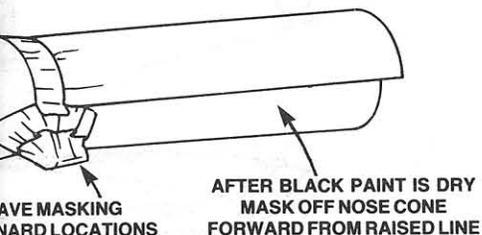
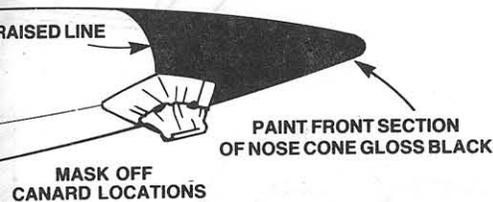


Remove the nose cone and open the shock cord loop at the pilot hole with a push pin or sewing needle to the size at the angle shown. Cut the nylon carefully insert antennae into holes, enlarge slightly for tight fit. Cut antenna wraps from instructions. Allow to dry.

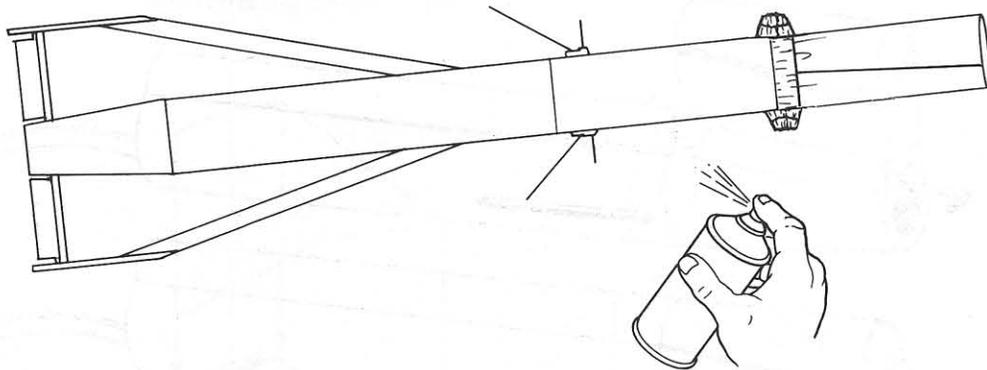


Seal the wood and paper parts with brush. When sealer is dry, sand the wood. Repeat sealing and sanding until wood is smooth.

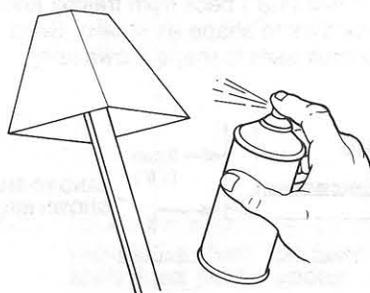
Wash the model in warm water to remove any mold release residue. Sand the wood and paper from peeling during masking. Mask off the canards as shown. Paint forward from the raised line on the nose cone. Paint color: Krylon Gloss Black. After paint is dry, sand the nose cone at the raised line as shown.



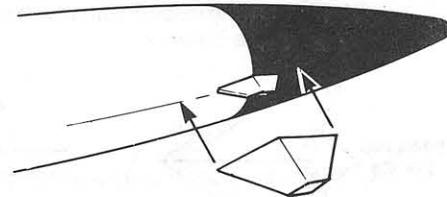
2. Place nose cone in front end of body tube and spray entire model white, or with white primer. After paint is dry, paint several light coats of orange over entire model and one final coat. Remove masking when paint is dry. Recommended color: Krylon Mandarin Orange.



3. The canards should be painted orange and done separately from the rest of the model. When paint is dry, apply plastic cement sparingly on inside of canard assemblies and slide assemblies over the canard location tabs on nose cone. Allow to dry.

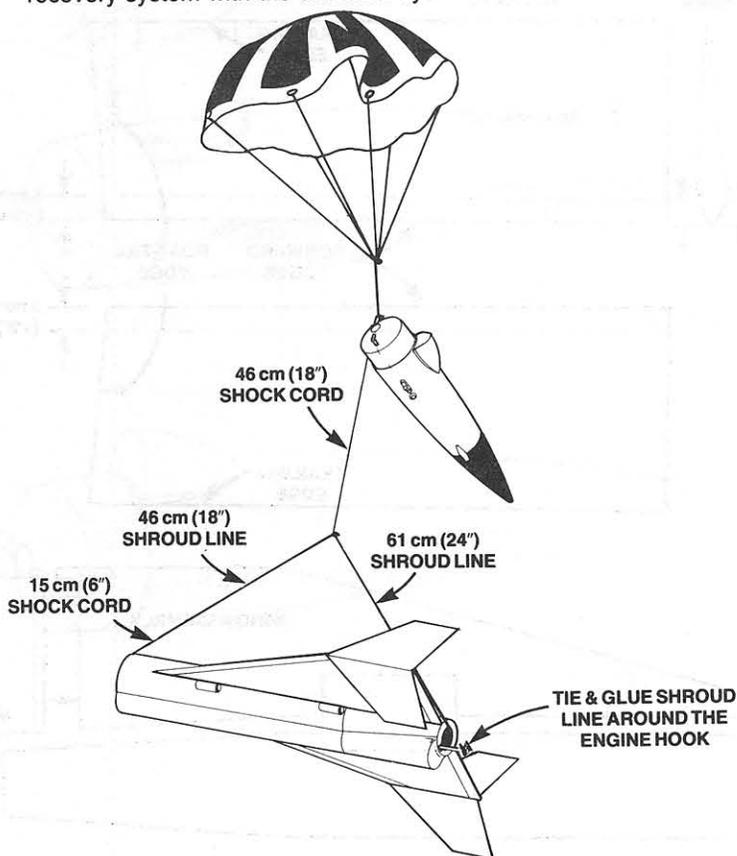


SLIDE CANARDS OVER WOOD DOWEL OR PENCIL. PAINT MANDARIN ORANGE.



CEMENT CANARDS OVER LOCATION TABS ON NOSE CONE. APPLY CEMENT SPARINGLY ON INSIDE OF CANARDS

4. Attach nylon parachute to nose cone and shock cord. You may wish to rig your recovery system with the alternate system as shown.



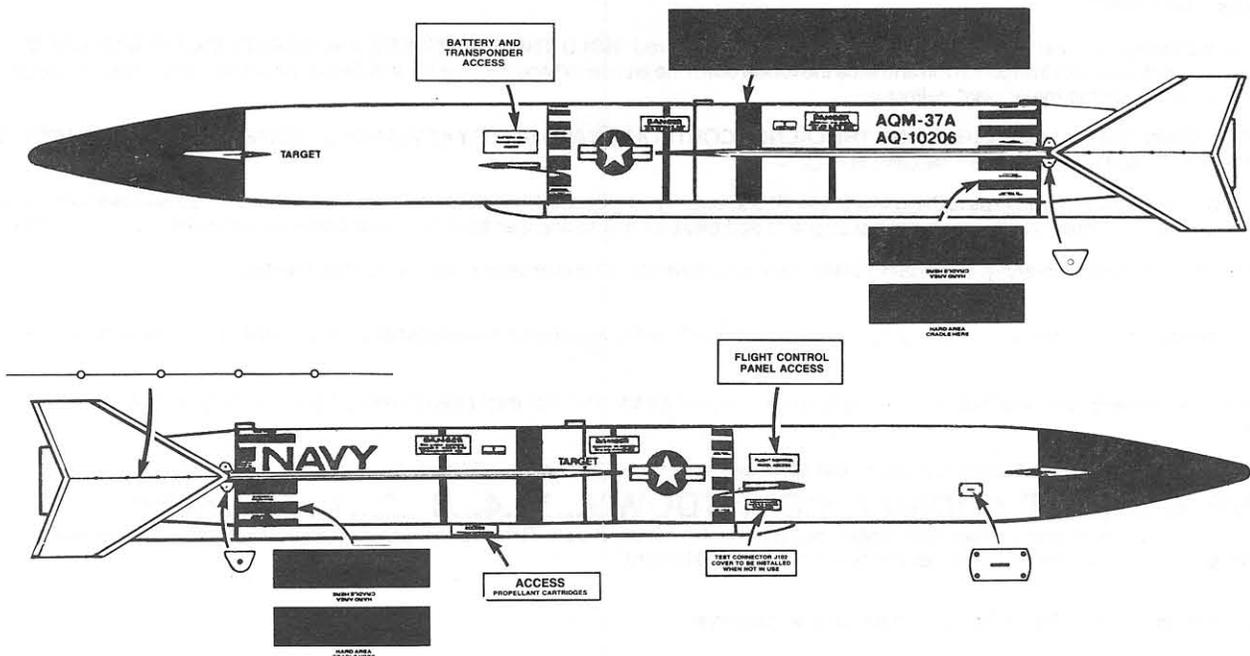
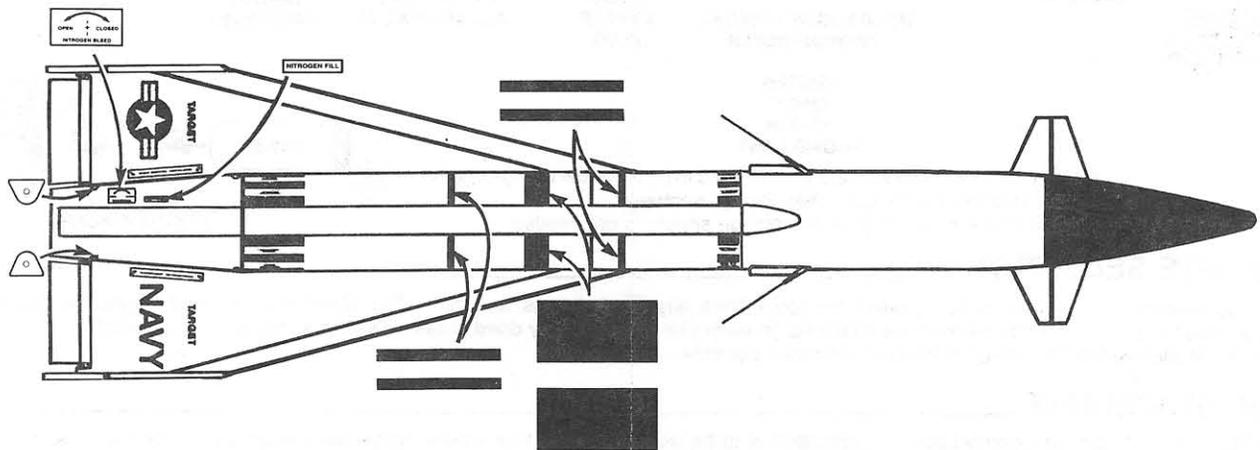
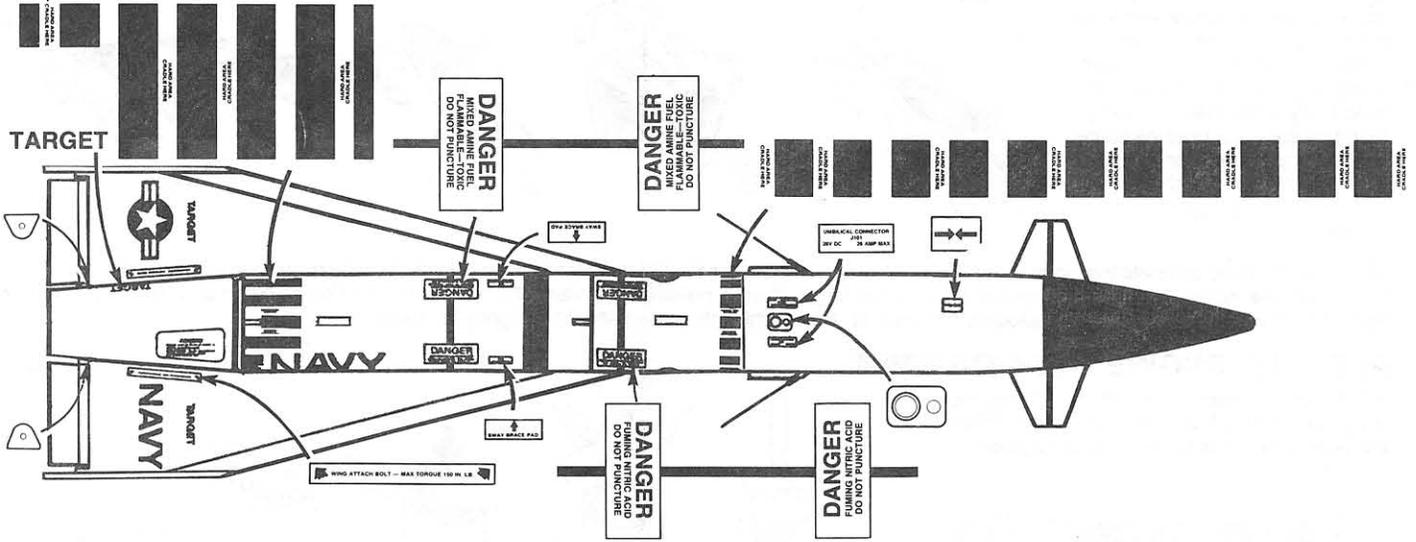
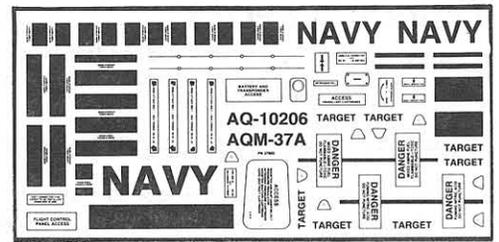
# APPLYING DECALS

Apply the decals in the positions shown. Cut each decal from sheet and dip in warm water for approximately ten seconds. Hold decal by one end until it uncurls.

Wet the decal location and slide decal from paper into final position and blot dry with a tissue.

Apply largest decals first.

Optional: Spray entire model with a flat clear coat to protect the finish and give the rocket a more realistic appearance.



## LAUNCH SUPPLIES

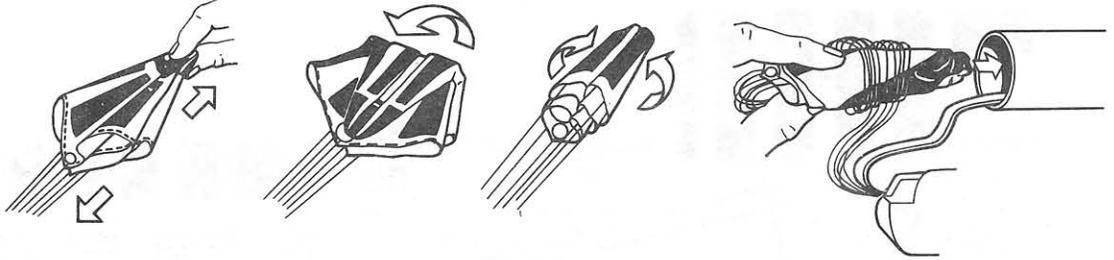
To launch your rocket you will need the following:  
Estes electrical launch controller and launch pad with 1/4" launch rod.  
Estes recovery wadding. NO. 2274

Recommended engines: D12-5 (first flight) and the new Estes (E15-4)  
Use only Estes products to launch this rocket.

## PREPARE ROCKET FOR FLIGHT

1. Hold the recovery system shock cord to one side of the inside of the body tube. Insert 6 to 10 squares of Estes™ recovery wadding into the rocket body. The wadding should remain loose. NEVER tamp the wadding tightly into the tube.

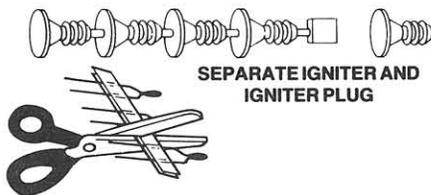
2. Fold the parachute and wrap the shroud lines around it as shown. The lines should be tight enough so that the parachute will slide easily inside the rocket body. Insert the parachute into the rocket onto the top of the recovery wadding. Then insert the shock cord into the rocket on top of the parachute.



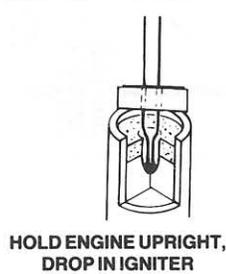
3. Install the nose cone into the forward end of the rocket body. Be certain the fit is neither too loose or too tight. If the nose cone falls out of the rocket body when the model is pointed forward, the fit is too loose. If while pointed downward, the nose cone can't be shaken out of the tube, the fit is too tight. If too loose, wrap tape around shoulder for snug fit. If too tight, lightly sand shoulder slightly for looser fit.

## PREPARE ENGINE D12-5 OR E15-4

NOTE: Igniter plugs come with rocket engines.  
If your engines did not come with plugs, follow the instructions that came with the engines.



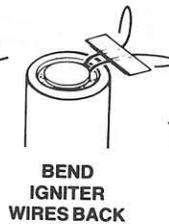
SEPARATE IGNITER AND  
IGNITER PLUG



HOLD ENGINE UPRIGHT,  
DROP IN IGNITER  
PLUG



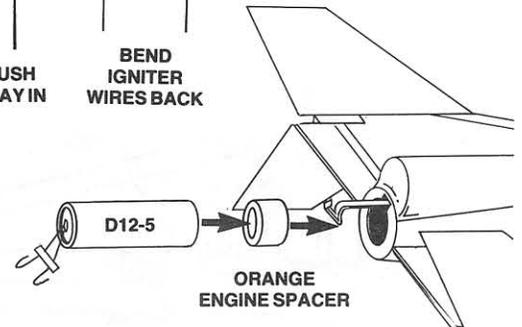
FIRMLY PUSH  
ALL THE WAY IN



BEND  
IGNITER  
WIRES BACK

IGNITER  
MUST  
TOUCH  
PROPELLANT

Flying your rocket with a D12-5 you will need to first slide the orange engine spacer into the engine tube, then the "D" engine.  
For the E15-4 engine flights, the orange spacer is not needed.



ORANGE  
ENGINE SPACER

## LAUNCH SITE SELECTION

Always fly model rockets from large open fields away from power lines, airports, buildings, and trees. The launch site chosen for launching Estes Pro Series™ model rockets should be a minimum of 1/4 mile long on each side. Remove any dried grass or weeds at the launch pad which may easily ignite. Always place the launch pad in the center of the field whenever possible.

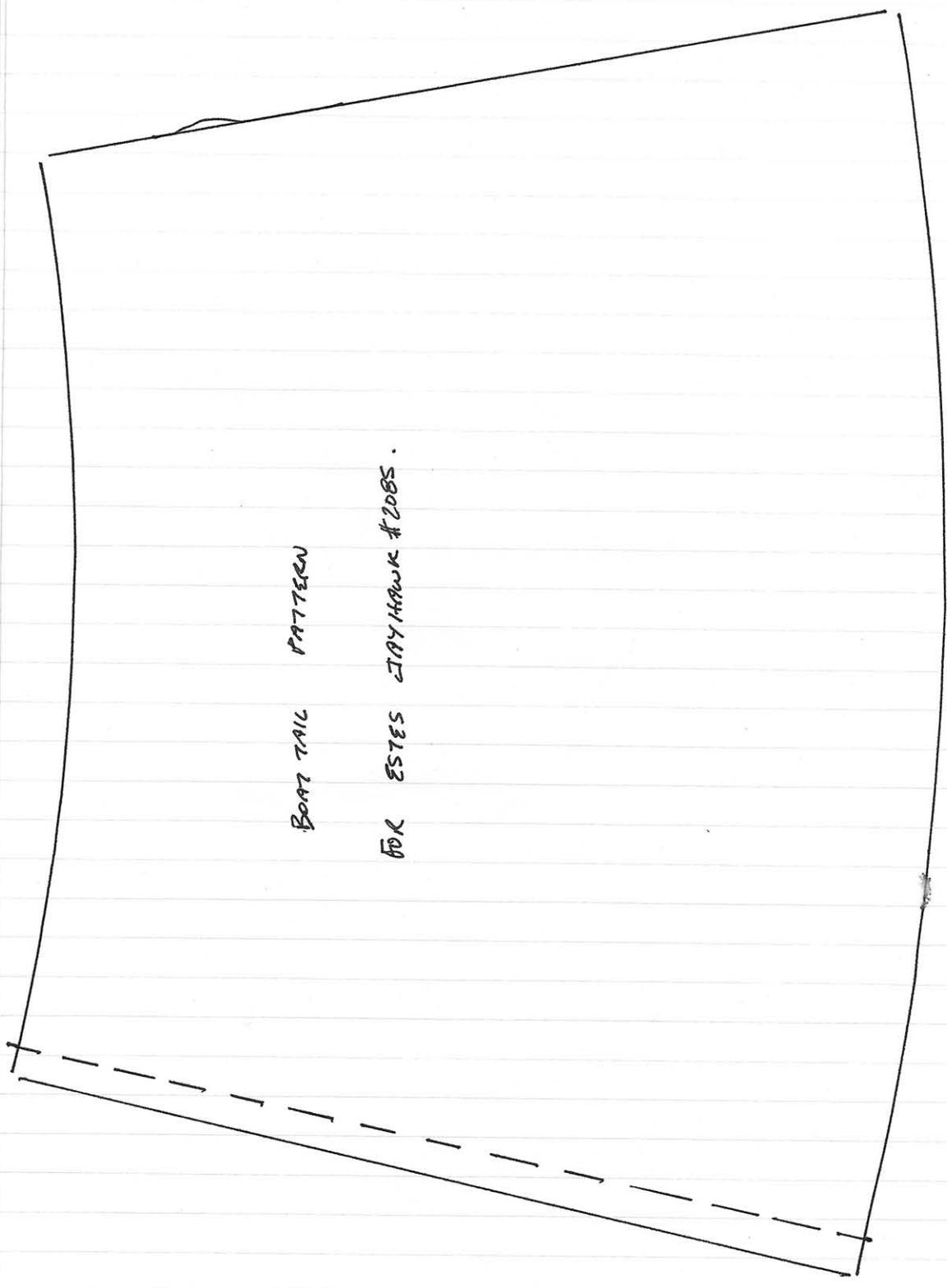
## LAUNCH PROCEDURE

If the Estes Pro Series Command Control Launch Controller™ is to be used to launch your rocket, follow the instruction supplied with the Command Control Launch Controller™.

1. Remove the safety key and launch rod safety cap from the launch rod. **HOLD THE SAFETY KEY AND SAFETY CAP IN ONE HAND.** Carefully align the rocket launch lugs with the launch rod and slide the rocket down the launch rod and onto the blast deflector. Adjust the igniter leads as necessary so that they do not touch the metal blast deflector.
2. **MAKE CERTAIN THAT NO ONE IS HOLDING THE LAUNCH CONTROLLER AND SAFETY KEY IS NOT INSERTED IN THE LAUNCH CONTROLLER. KEEP SAFETY KEY AND SAFETY CAP IN ONE HAND.**
3. Attach the launch system micro clips to the igniter leads. (It is strongly recommended that the inside jaws of the micro clips be cleaned before each launch. This can be done quite easily by simply passing a folded piece of fine sandpaper back and forth between the closed jaws a few times.)
4. Examine the connections carefully. Be certain that the micro clips do not touch one another or the metal blast deflector.
5. Check to be certain the launch controller is at its maximum distance from the launch pad. Move it as necessary so that the sun will be at your back at launch.
6. Give a verbal warning to others that you are ready to launch your rocket and that they need to move back a minimum of 30 feet (9 meters) from the launch pad.
7. Insert the safety key into the launch controller. The continuity light should now glow indicating the launch circuit is complete.
8. **GIVE A SHORT AUDIBLE COUNTDOWN...5...4...3...2...1...LAUNCH!**

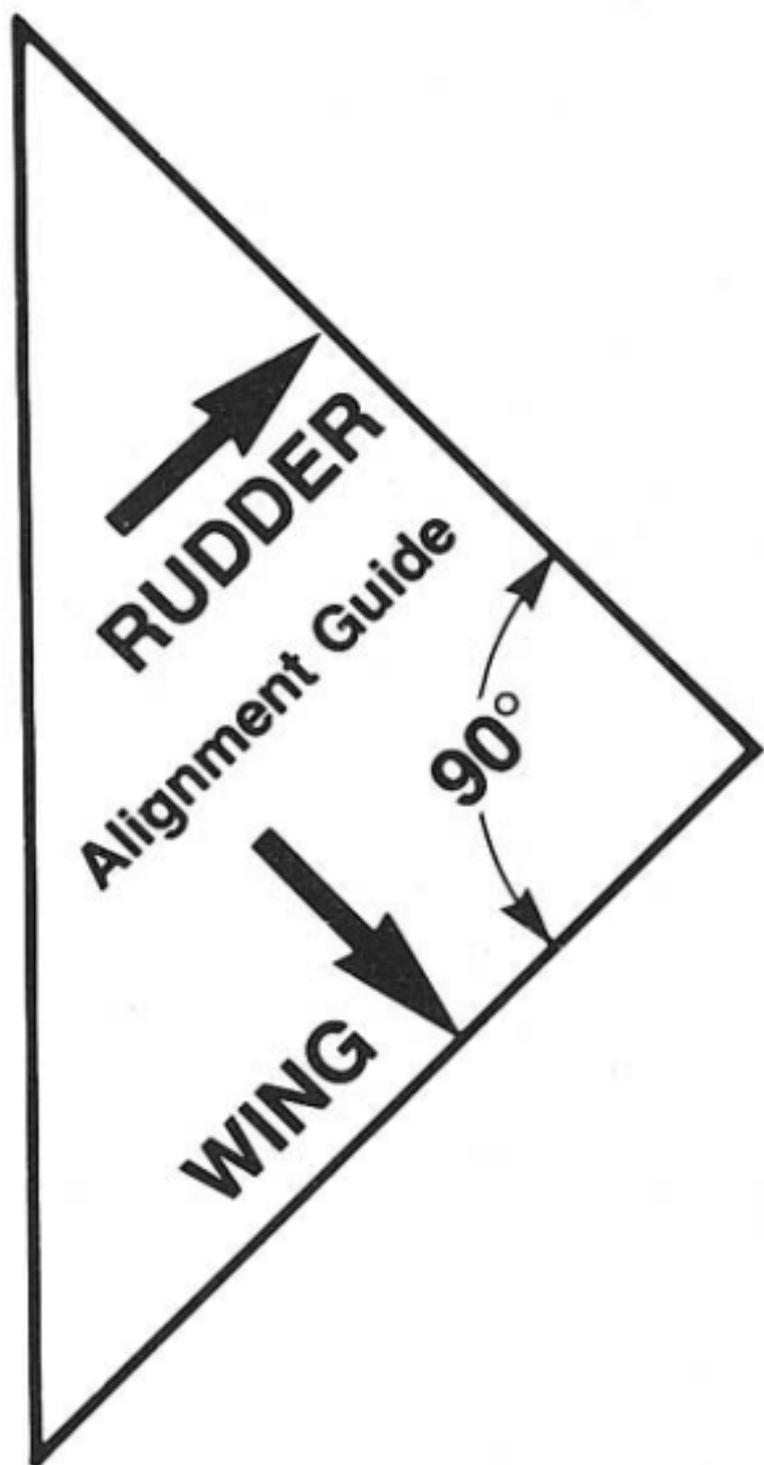
Press the launch button and hold it down until ignition occurs and the rocket lifts off. Release the launch button as the rocket leaves the launch pad. Remove the safety key from the controller as you follow the rocket skyward.

Return the safety cap to the end of the launch rod as soon as possible.



BOAT TAIL PATTERN

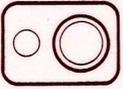
FOR ESTES JAYHAWK #2085.





No. R590.6 WESTCOTT® Flexible Stainless Steel Ruler 51 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 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HARD AREA CRADLE HERE  
HARD AREA CRADLE HERE



BATTERY AND  
TRANSPONDER  
ACCESS

**AQ-10206**  
**AQM-37A**

PN 37503



UMBILICAL CONNECTOR  
J101  
28V DC 26 AMP MAX

ACCESS  
BOOSTER AND SUSSTAINER SELECT  
PRESSURE REGULATOR  
NITROGEN PRESSURE CARTRIDGE  
BOOSTER SHUTOFF CARTRIDGE  
AERO DESTRUCT CARTRIDGE  
G.W.S.

WING ATTACH BOLT — MAX TORQUE 150 IN. LB.  
WING ATTACH BOLT — MAX TORQUE 150 IN. LB.  
WING ATTACH BOLT — MAX TORQUE 150 IN. LB.  
WING ATTACH BOLT — MAX TORQUE 150 IN. LB.

**NAVY**

HARD AREA  
CRADLE HERE

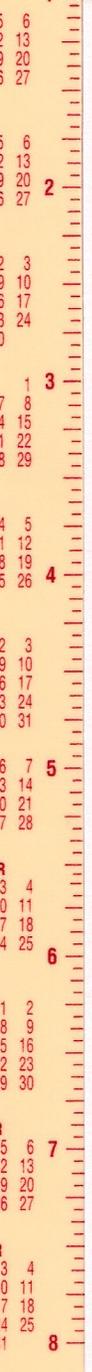
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TEST CONNECTOR J102  
COVER TO BE INSTALLED  
WHEN NOT IN USE

FLIGHT CONTROL  
PANEL ACCESS



TARGET



TARGET



**DANGER**  
FUMING NITRIC ACID  
DO NOT PUNCTURE

TARGET

**DANGER**  
FUMING NITRIC ACID  
DO NOT PUNCTURE



**DANGER**  
MIXED AMINE FUEL  
FLAMMABLE—TOXIC  
DO NOT PUNCTURE

**DANGER**  
MIXED AMINE FUEL  
FLAMMABLE—TOXIC  
DO NOT PUNCTURE

TARGET

TARGET



TARGET TARGET



ACCESS  
PROPELLANT CARTRIDGES

NITROGEN FILL



SWAY BRACE PAD



SWAY BRACE PAD

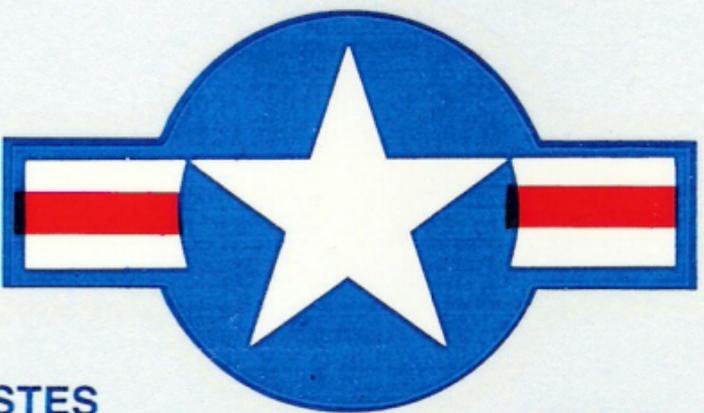
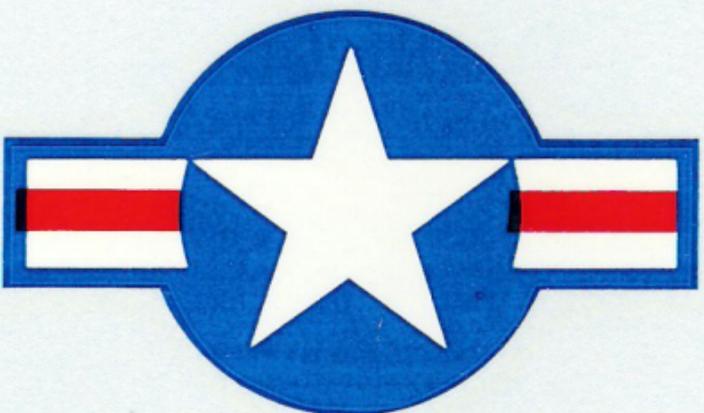
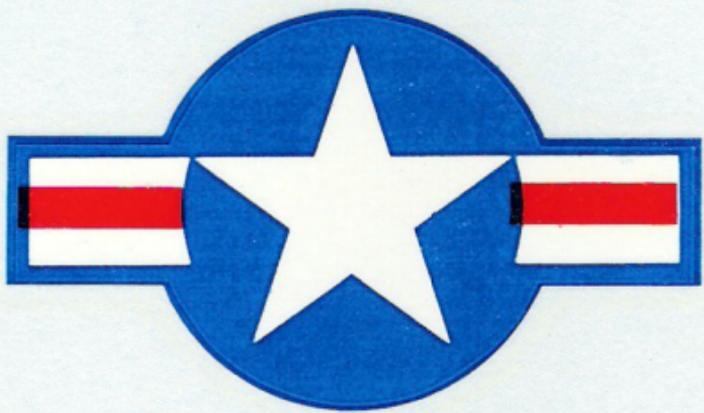
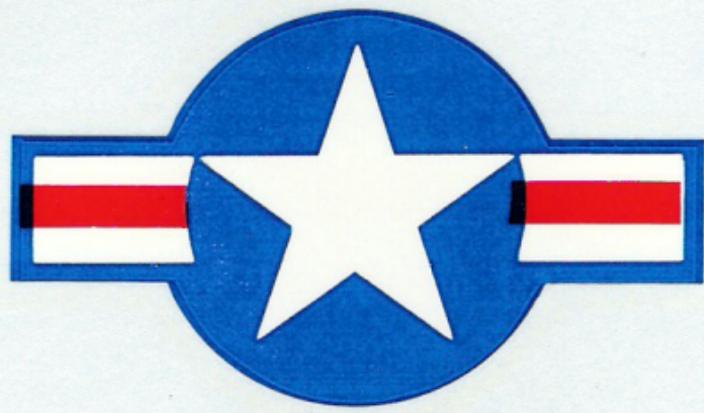
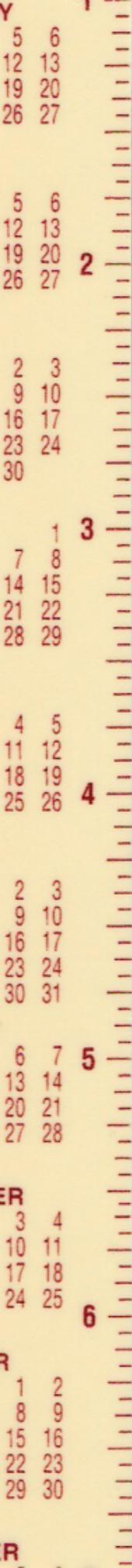


UMBILICAL CONNECTOR  
28V DC  
10A  
26 AMP MAX



NAVY NAVY





6

**ESTES  
INDUSTRIES**

**PN 37504**

You'll need to make an adjustment to part of the decals color-wise though. Don Fent said that part of them are brown, but the brown scanned as black. Here are the parts that need to be brown according to him:

The long rectangle under NAVY in the first decal should be brown and the two rectangles in the second decal should be brown.

It is a chocolate brown, not as in dark chocolate, but in a dark milk chocolate, slightly olive green if you look at it too long.