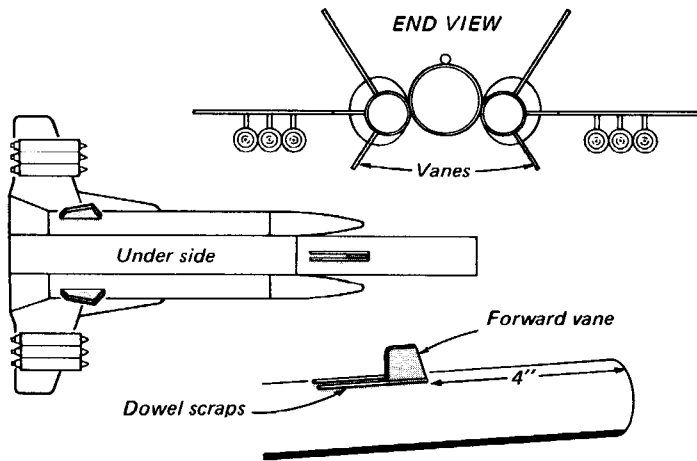




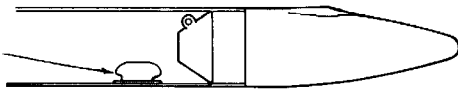
- 24** Glue the rear vanes in place on their marks on the underside. Use the same brace for positioning as you did with the rudders. Also glue the forward vane in place and reinforce with the dowel scraps.



- 25** Tie one end of the shock cord around its fastener as shown, with a double knot. Glue fastener far enough down into body tube to allow full insertion of the nose cone later. Hold fastener until glue sets.



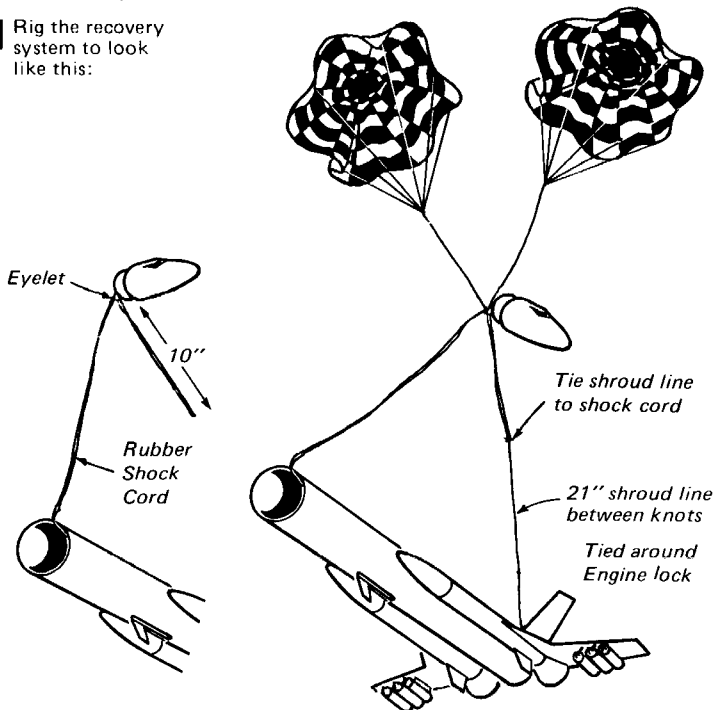
Fastener must be below nose cone base!



- 26** VERY IMPORTANT: Apply glue fillets to every exposed joint. Set rocket aside to dry, but check it to be sure glue does not run and parts do not sag!

- 27** Assemble the two parachute kits enclosed, following the instructions printed right on the chute material. Save the left over shroud line for next step.

- 28** Rig the recovery system to look like this:



- 29** Apply a final set of fillets to all glue joints and allow to dry thoroughly before further handling.

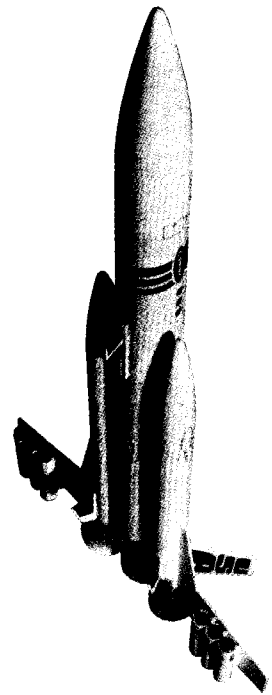
INSTRUCTION STEPS ARE CONTINUED ON THE EXPLODED VIEW SHEET.

Centuri #5310

SUPER KITTM

U.S.S. AMERICATM

In the year 1983 the President approved the building of the U.S.S. America Command Post. The keel was laid at the San Diego Space Shipyards and the great bird first took to the skies in 1986. America now serves as a Presidential aerial Command Post Center and diplomatic courier. Able to land at large conventional airports, the America helps maintain peace on earth as well as in space. The ship's Orville/Stine nuclear rocket engines place the craft in earth orbit and augment the six ramjets used for atmospheric travel. These combined systems economically transport high government officials to global trouble spots.



MODEL ROCKETEER'S SAFETY CODE

CONSTRUCTION

My model rockets will be made of only lightweight materials such as paper, wood, plastic, and thin metallic foils, with the exception of payloads and engine holders made of wirelike material.

ENGINES

I will use only pre-loaded factory made model rocket engines in the manner recommended by the manufacturer. I will not change in any way nor attempt to reload these engines.

RECOVERY

I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again.

WEIGHT LIMITS

My model rocket will weigh no more than 453 grams (16 oz.) at liftoff, and the engines will contain no more than 113 (4 oz.) of propellant, as prescribed by Federal Regulations.

STABILITY

I will check the stability of my model rockets before their first flight except when launching models of already proven stability.

LAUNCHING SYSTEM

The system I use to launch my rockets will be remotely controlled and electrically operated, and will contain a switch that will return to "off" when released. I will remain at least 10 feet away from any rocket that is being launched.

LAUNCH SAFETY

I will not let anyone approach a model rocket on a launcher until I have made sure that either the safety interlock key has been removed or the battery has been disconnected from my launcher.

LAUNCH AREA

My model rockets will always be launched from a cleared area, free of any easy-to-burn materials, and I will only use non-flammable recovery wadding in my rockets.

BLAST DEFLECTOR

My launcher will have a blast deflector device to prevent the engine exhaust from hitting the ground directly.

LAUNCH ROD

To prevent accidental eye injury I will always place the launcher so the end of the rod is above eye level or cap the end of the rod with my hand when approaching it. I will never place my head or body over the launching rod. When my launcher is not in use I will always store it so that the launch rod is not in an upright position.

POWER LINES

I will never attempt to recover my rocket from a power line or other dangerous places.

LAUNCH TARGETS AND ANGLE

I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive warhead nor a payload that is intended to be flammable. My launching device will always be pointed within 30 degrees of vertical.

PRE-LAUNCH TEST

When conducting research activities with unproven designs or methods, I will, when possible, determine their reliability through pre-launch tests. I will conduct launchings of unproven designs in complete isolation from persons not participating in the actual launching.

FLYING CONDITIONS

I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft or under any conditions which might be dangerous to people or property.

CENTURI Engineering Co., Inc., Phoenix, AZ 85001

Printed in U. S. A. 081578

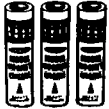
ASSEMBLY INSTRUCTIONS

HOW IT WORKS

Your U.S.S. America model rocket is designed to fly in the same manner as most model rocket kits. The electrically ignited motor blasts the America off the launch pad, guiding it into proper flight by the launch rod. The rocket continues coasting to peak altitude while the motor's delay-charge burns. Then the ejection charge ignites, pushing out the nose cone and parachute system. Your America drifts to earth ready to be prepared for another flight.

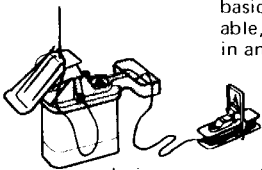
WHAT IT TAKES TO FLY

You will need engines, igniters, an electrical launch system and parachute wadding to fly your rocket. These supplies are NOT included in individual rocket kits, but are available separately and ARE included in every Centuri Starter Set or Rocket Outfit.



We recommend using Centuri engines; each package includes the famous "Sure-Shot" igniters, acclaimed as the world's most reliable model rocket igniter.

The popular Centuri "Powr-Pad" is an ideal basic launch system; compact, highly portable, reliable, and offering features not found in any other launch system.



Always use standard remote-control electrical ignition and follow the engine recommendations. Be sure to comply with any laws that may apply in your area, for the good of Model Rocketry and your own enjoyment.

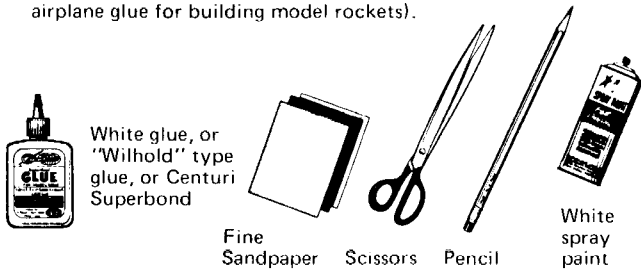
RIGHT MATERIALS FOR THE JOB

Different model rocket kits are made out of a wide variety of materials, depending on the needs of each kit. The chart below explains why this particular kit is designed using certain materials.

PART	REQUIREMENTS	MATERIAL
Fins	Light weight tapered edges	Pre-cut balsa
Nose Cone	No tools required Durability	Molded Styrene

TOOLS YOU WILL NEED

In addition to the parts supplied you will need the following tools to assemble and finish this kit (DO NOT use model airplane glue for building model rockets).



White glue, or "Wihold" type glue, or Centuri Superbond

Fine Sandpaper

Scissors

Pencil

White spray paint

Optional tools, to help you build an even better model, are: Knife, Brush, Enamel, Ruler

BEFORE YOU START

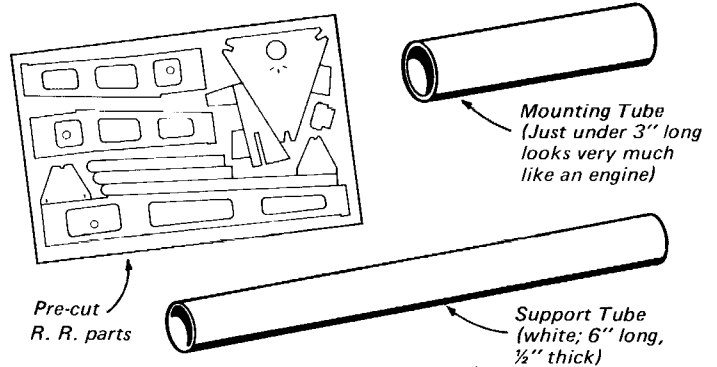
In case you are new to model rocketry, here are some general tips to get you off to a good start.

- Choose a practical assembly area: well lighted, big enough to work in, and out of the way of relatives or pets who might accidentally mess up your work.
- Cover your worktable with plywood or heavy cardboard to protect the table from glue, paint, cuts, etc.
- Remove the entire contents of your kit package carefully to avoid losing or damaging small parts. Lay them out neatly and identify each by referring to the "exploded view" drawing on this instruction.
- NOTE: Sometimes certain parts are packed INSIDE of other parts, such as tape discs inside parachutes, decals or couplers inside body tubes, etc.

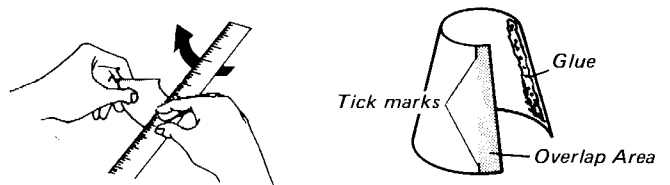
BEFORE YOU START:

Remove the large "Exploded-View" plan sheet, and place it where you can refer to it while following these assembly instructions.

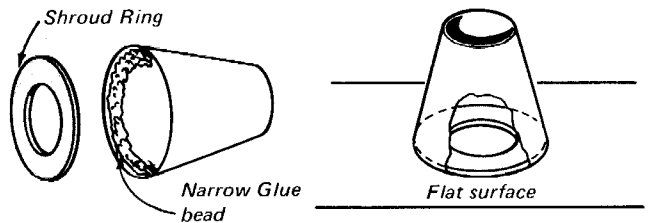
Identify these parts below for the "Rocket-Rack" display stand and set them aside for assembly later. "Rocket-Rack" instructions are on the reverse of the "exploded-view"



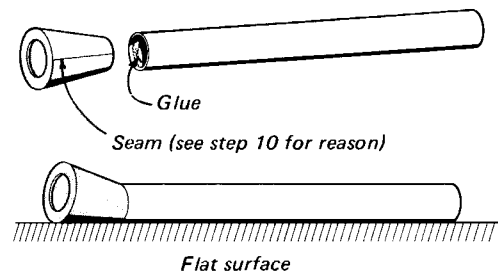
- 1 To assemble a paper shroud (shiny side out), pre-curl the paper by gently pulling up from under a ruler on a clean, flat surface. Note the little tick marks on one end for aligning overlap. Form into a cone and apply glue opposite the overlap area. Line up the edge of the paper with the tick marks exactly and press together on a flat surface. Wipe away excess glue.



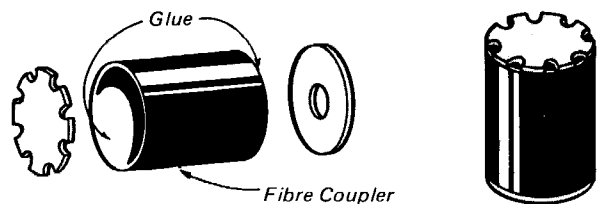
- 2 Apply a bead of glue around inside rim of the shroud and carefully snap over shroud ring laid on flat surface. Repeat steps for second shroud.



- 3 Apply a bead of glue around the inside rim of one tank tube and insert a shroud assembly. Position the pieces flat on table to obtain a straight edge on one side. The shroud's seam should be flat on the table. Repeat for other tank assembly.

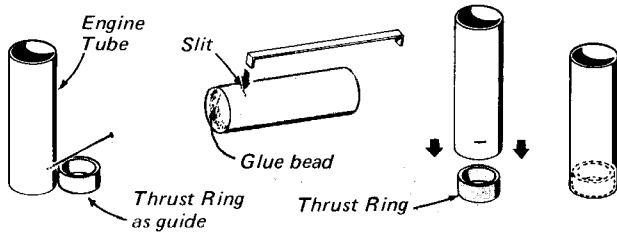


- 4 Assemble the ejection baffle unit. Set aside to dry.

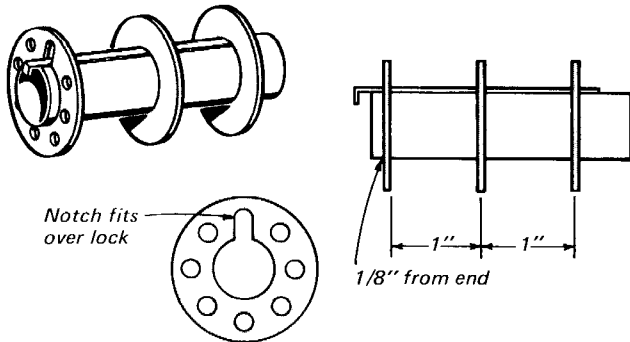


- 5** Make an engine-lock slit in the engine tube by poking holes with a pin or needle (or cutting with a modeling knife if you have one). Push engine lock into tube to finish the slit.

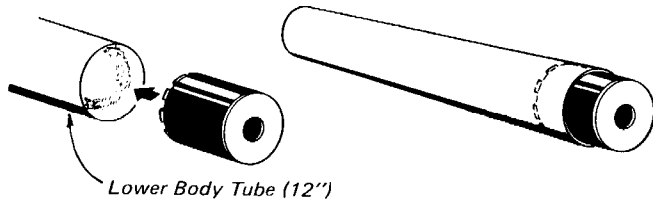
Run glue bead around inside of the slit end of tube. Insert thrust ring by pushing tube down over it.



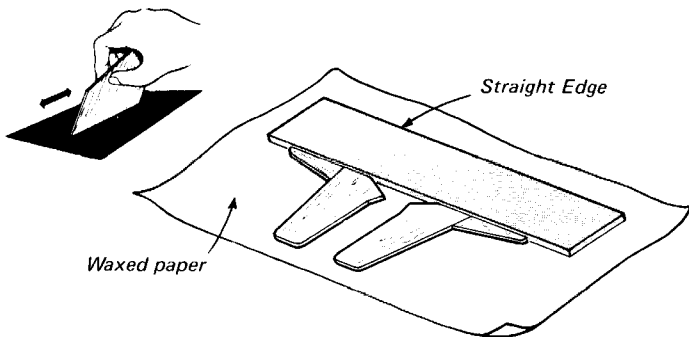
- 6** Insert the engine lock into engine tube, and position the three centering discs as shown. Glue each in place, one at a time. Set aside to dry.



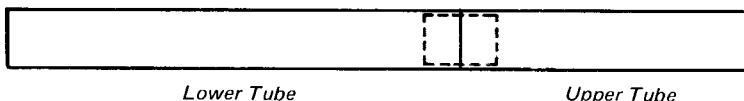
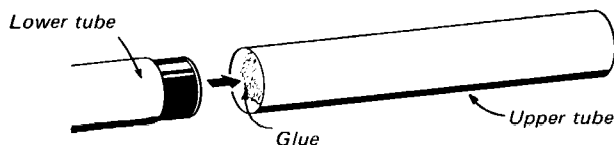
- 7** Test fit the baffle unit into the lower body tube . . . shave or sand to fit, if necessary. Glue baffle unit approximately halfway into tube, with the "donut" end of baffle exposed. Set aside to dry.



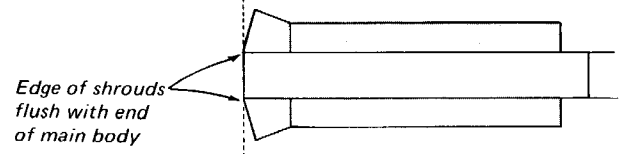
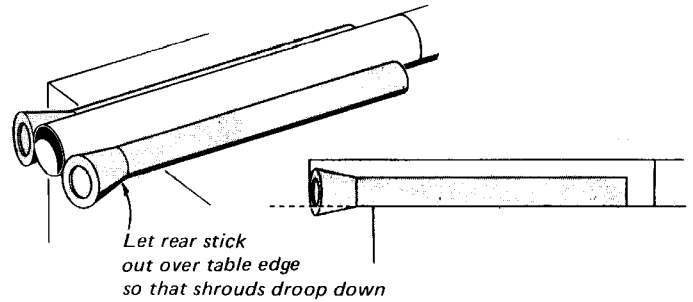
- 8** Sand the balsa sheets to remove surface imperfections before removing the parts. Remove balsa parts from their pre-cut sheets only when you need them. Remove them carefully to avoid breakage. Glue each wing gusset to its wing by lining them up against a straight edge. Let dry on a flat surface (preferably protected by wax paper).



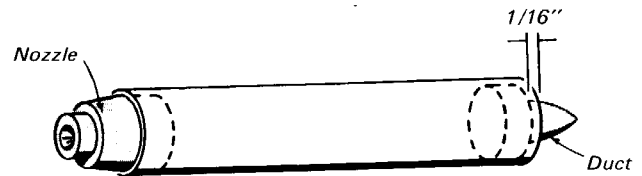
- 9** Glue the lower body tube into the upper body tube. Roll completed assembly on perfectly flat surface to be sure tubes are lined up straight



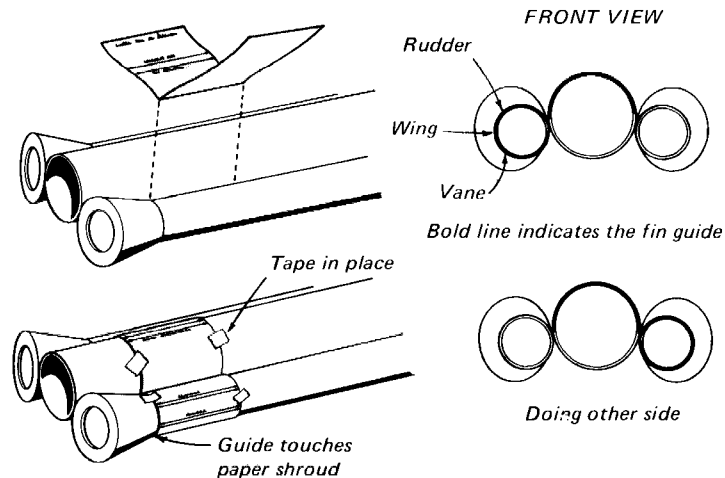
- 10** Glue the tank assemblies onto the main body . . . if you followed 3 correctly the shroud seam will be hidden against the main body.



- 11** Glue the ducts and nozzles into the jet tubes, using ordinary model rocket glue. First run a small bead of glue into tube, insert the plastic duct or after-burner and recess it about 1/16", then run a small glue bead around the recess. Make all six assemblies.



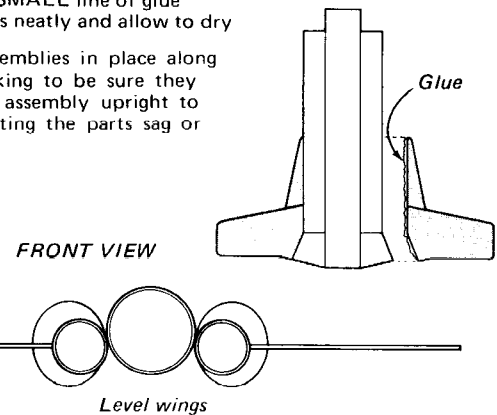
- 12** Cut out the fin guide from the back side of the "Exploded View" sheet. Fold along the "crease" line and tape in place on rocket body as shown. Make pencil marks to indicate fin positions, then remove the guide and repeat on other side of rocket body.



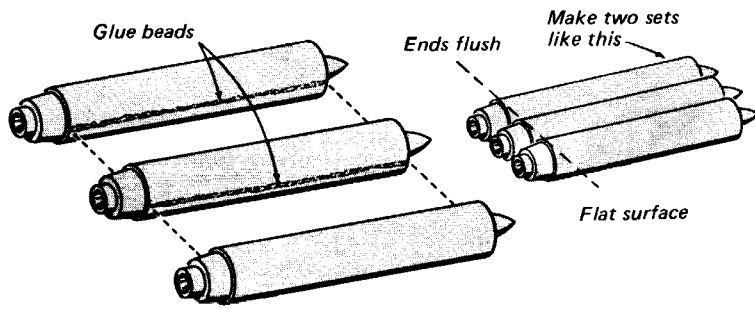
- 13** Follow this standard procedure for gluing all pre-cut balsa parts to tubes:

- Apply a SMALL line of glue to edge of part
- Join the appropriate parts
- Separate the parts and allow several seconds for glue to become tacky
- Apply another SMALL line of glue
- Re-join the parts neatly and allow to dry

Glue the wing assemblies in place along marks, after checking to be sure they fit neatly. Stand assembly upright to dry . . . avoid letting the parts sag or droop.



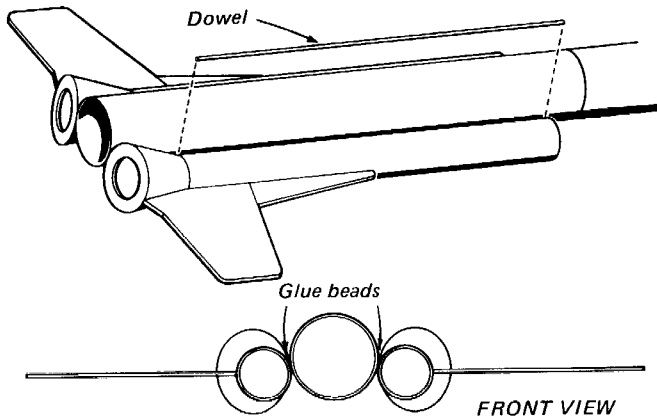
- 14 Connect the ramjet tubes by running a small glue bead along on tube and joining it to the next. Assemble on a flat surface and allow to dry.



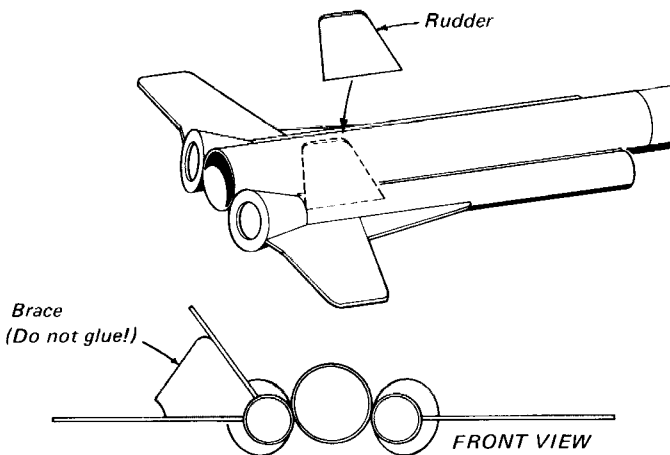
- 15 Through out this instruction you will be asked to "fillet" several times. "Fillet" simply means applying a small line of glue along an already glued joint and smoothing it with your finger-tip to remove excess glue.

Start by applying a glue fillet on the engine mount to strengthen the joints of the centering discs.

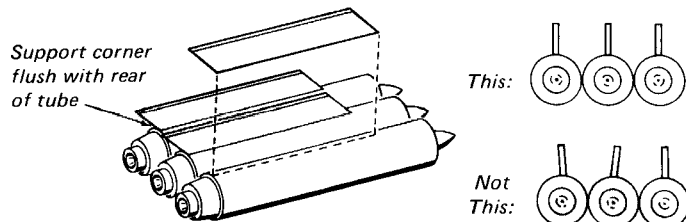
- 16 Cut each dowel to the same length as the tank tubes (9.4"). Save the scraps. Run a glue bead down into the top crack where the tank tube joins body, and push the dowel in place for reinforcement.



- 17 Glue one rudder in place on it's marks, and support it at the proper angle with the brace while glue dries.

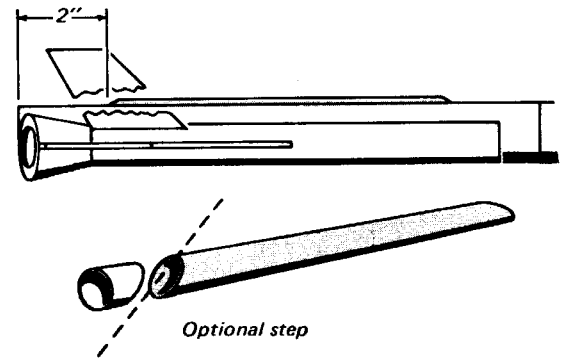


- 18 Glue the fibre supports onto the ramjet assemblies as shown. Make sure they are vertical and on straight . . . check by turning it over and placing on flat surface.

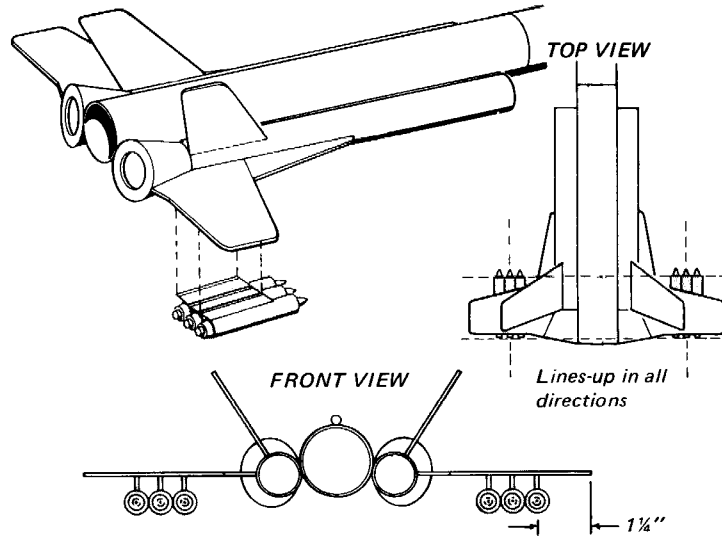


- 19 Glue the other rudder in place using the same brace as before.

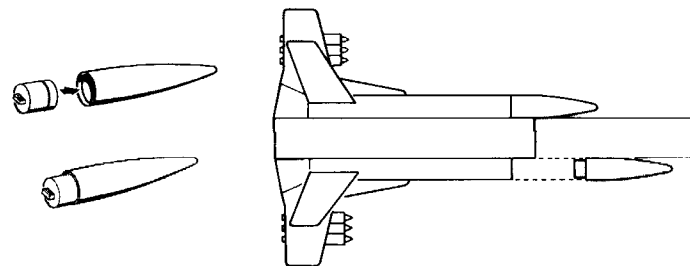
- 20 Glue the launch lug onto the top of the body along its marks. You may want to taper the ends . . . if so, use a very sharp blade.



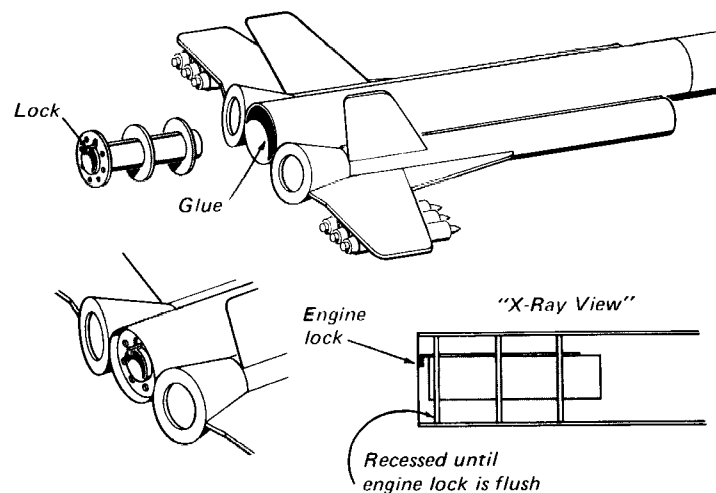
- 21 Glue the ramjet assemblies onto underside of wings . . . Try for a neat balanced appearance.



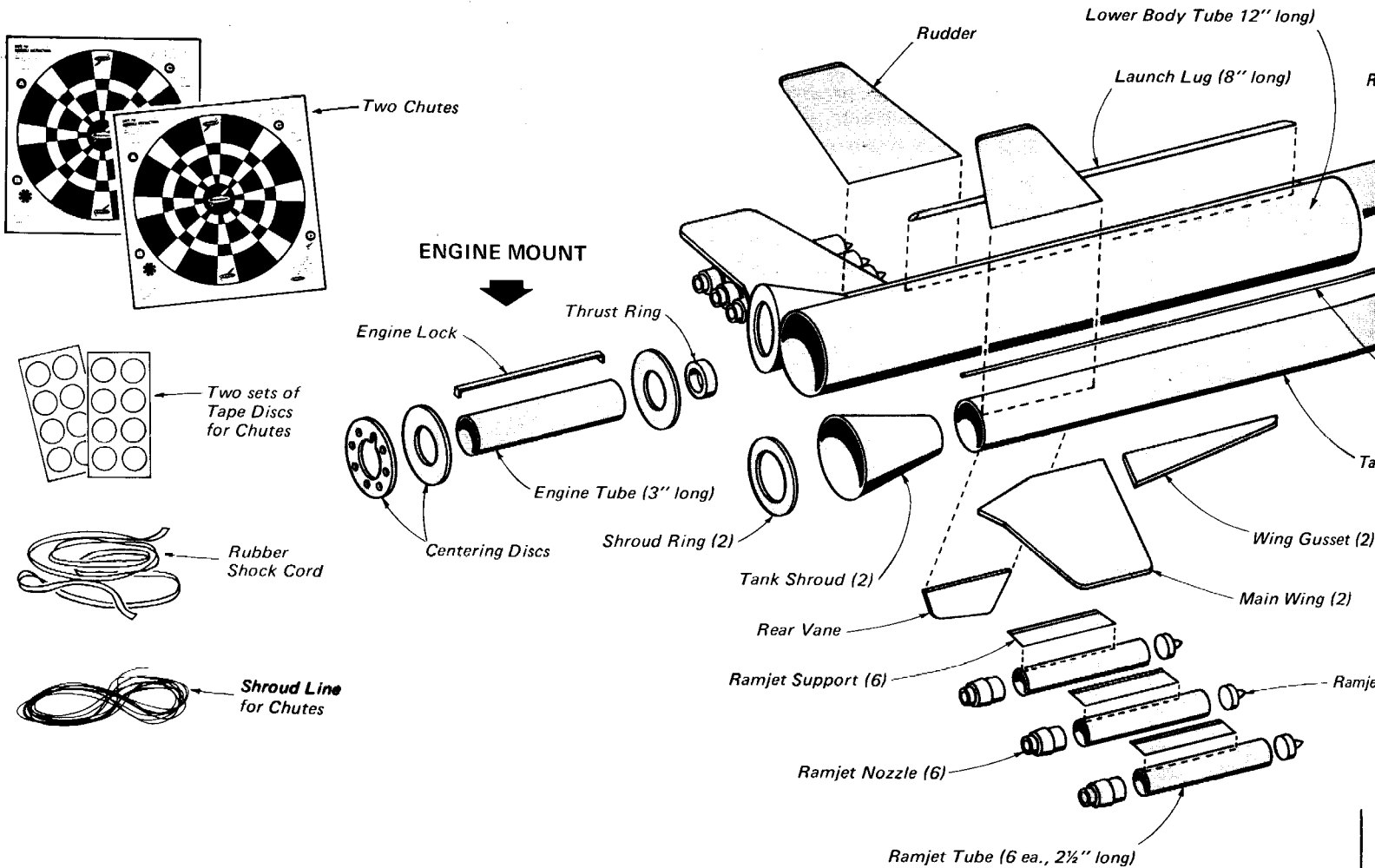
- 22 Assemble the tank cones by snapping their inserts into the cones until you hear and feel the parts locking in place. (NOTE: plastic glue will provide an even stronger joint.)



- 23 Run a generous glue bead inside the rear of the body and insert engine mount. Make sure the lock points straight up, and the mount is recessed as shown.

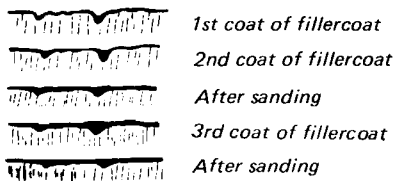


Exploded View



Sand all balsa surfaces lightly and slightly round all exposed edges.

Paint the fins with balsa fillercoat or sanding sealer and allow to dry. Sand lightly with fin sandpaper. Paint and sand again, repeating the process until all grain line is filled.



When painting plastic parts, never use dope or lacquer! Use enamel only! Dope or lacquer will melt the plastic.

RECOMMENDED COLOR: WHITE

Spray painting your finished model with a fast-drying enamel will produce the best results . . . IF IT IS DONE PROPERLY!! Most important is the number of coats of paint. DO NOT try to paint your model with one heavy coat! Instead, give it a couple of quick, light coats first and then finish coat. Let each dry before applying the next.

OPTIONAL STEP: Paint the ducts and nozzles with silver enamel for realistic appearance.

Applying decals is the last assembly step. Be sure paint is thoroughly dry...overnight is best. Round up your tools: scissors, rag or paper towel, bowl of water.

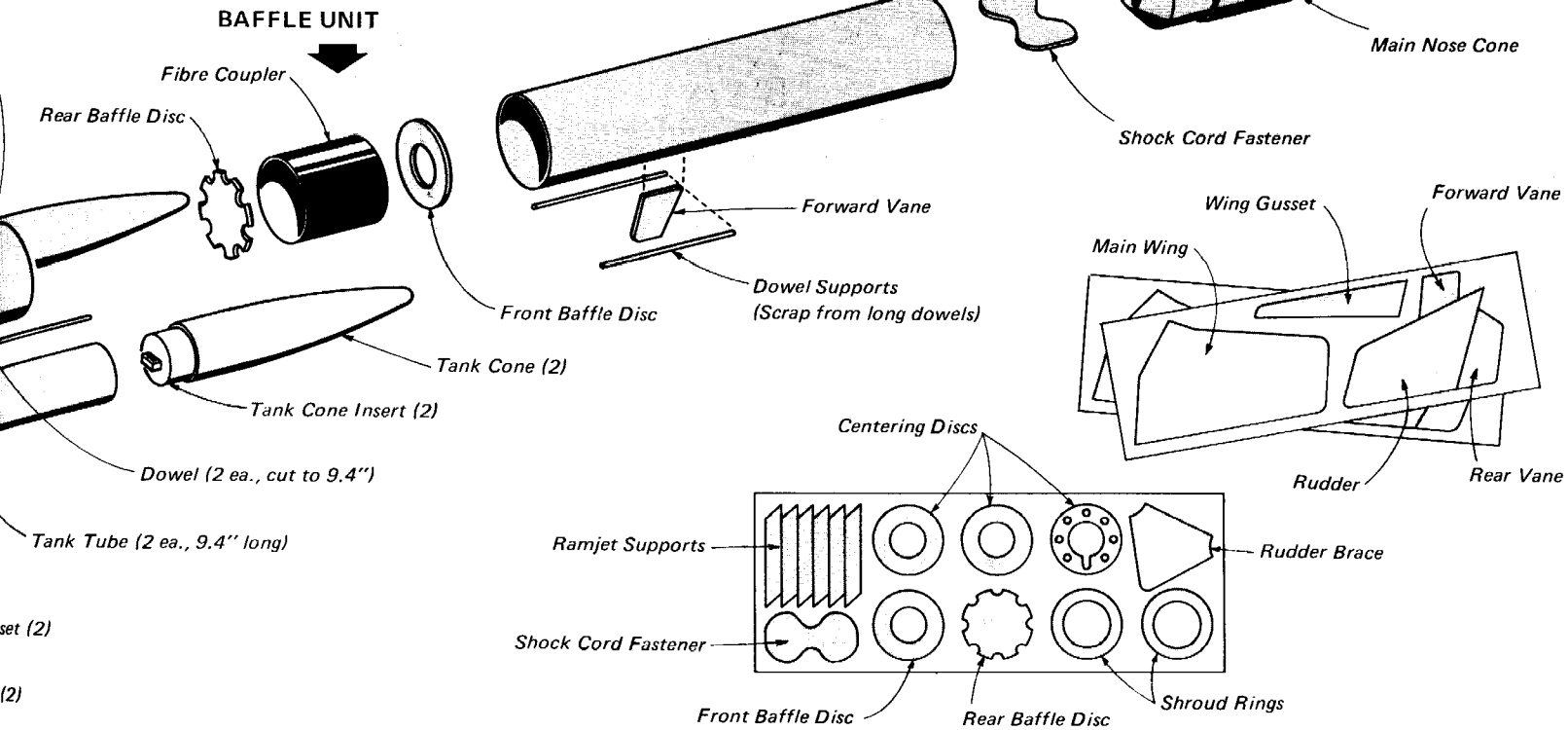
Identify the different parts of decal. Notice how each design is covered with a clear shiny shape which holds the design together.

Complete detailed instructions for decals are on the back of the "Exploded View".

Igniters and complete engine installation instructions are included in "Engine Operating Instructions" which accompany all Centuri engines.

RECOMMENDED ENGINE: C6-3

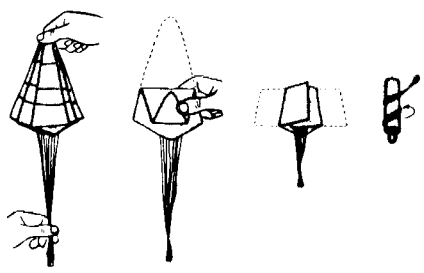
View



Ramjet Duct (6)

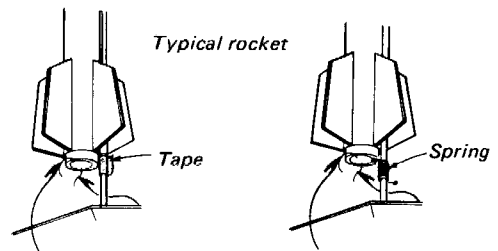
FLIGHT PREPPING

1. Inspect entire recovery system for good condition before each flight. If the recovery system is tangled from the last flight, cut it apart to untangle it.
2. Your Super Kit has an Ejection Baffle which virtually eliminates the need for chute wadding. BUT, we strongly recommend that you still use 2 or 3 sheets of our crepe-type wadding (#5846/SPW-19) in case your engine has an extra strong ejection charge.
3. Fold parachutes as shown and tuck neatly into rocket . . . trying to avoid tangles. Chutes should be packed just before flight to avoid them possibly sticking together.

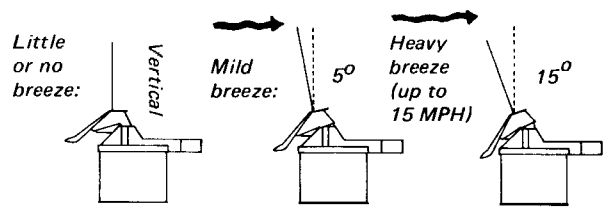


4. Tuck in shock cord and insert nose cone. The cone should fit snugly, yet be loose enough to eject.
5. Install igniter into engine, following instructions enclosed with engines.
6. Insert engine into its mount, securing with engine lock.

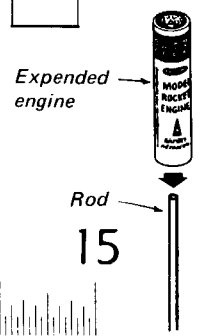
7. Mount the rocket on launcher and prepare for ignition. The rocket must be raised slightly off the launcher's deflector to avoid a short circuit which might prevent ignition. If your launcher has a "positioning spring" use it as shown. Otherwise just wrap a little tape around the launch rod to support the rocket at the launch lug.



8. If your launcher has a rod-tilting feature, use it only for launching in breezes . . . normally model rockets are launched straight up. For reliable, impressive flights, never tilt the rod more than 15 degrees when flying your Super Kit . . . do not tilt the rod to its maximum angle.



Avoid eye injury by capping the exposed tip of the launch rod when not actually launching. Follow the instructions and the Safety Code, and have many happy hours with Model Rocketry.



8 9 10 11 12 13 14 15

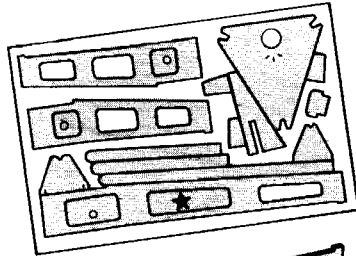
ROCKET RACK™ MODEL ROCKET DISPLAY STAND



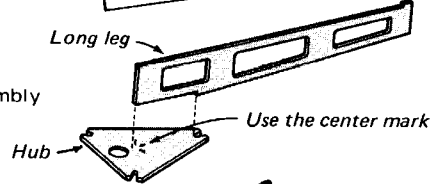
IMPORTANT: The Rocket Rack is a Skill Level 2 . . . this means it is more challenging to build than some rocket kits. Follow instructions carefully for satisfactory results. Assembles in about one-half hour. Follow the standard procedure for gluing all the flat parts.

- A. Use white glue.
- B. Apply a **SMALL** line of glue to edge of piece.
- C. Join the appropriate pieces.
- D. Separate the parts and allow several seconds for glue to become tacky.
- E. Apply another **SMALL** line of glue.
- F. Re-join the parts neatly and allow to dry.

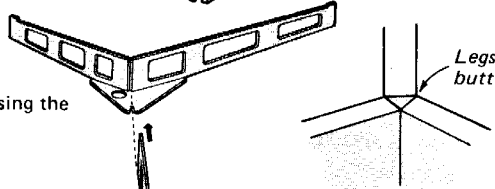
1 Remove parts very carefully to avoid bending pieces.



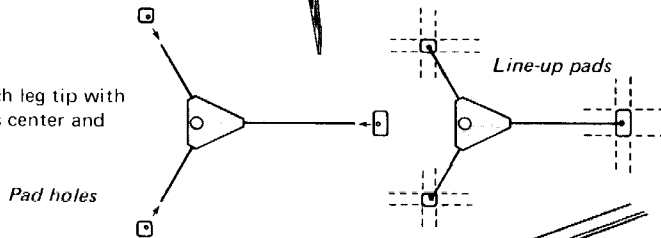
2 Glue the longest leg onto the hub . . . fit notches together, line up onto mark, and make sure assembly is squared-up.



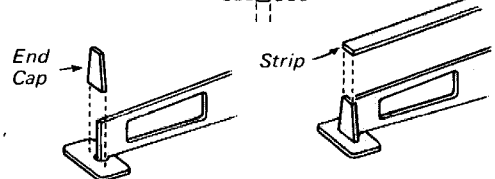
3 Glue the two shorter legs in place again using the notches. Legs butt together as shown.



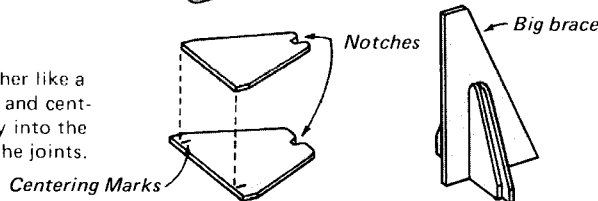
4 Place each pad onto each leg tip with holes close to the rack's center and glue to hold in place.



5 Glue each end cap in place, centering neatly on the leg. Now glue each strip on, again centering neatly.



6 Glue the two small braces together like a sandwich, lining up the notches and centering marks. Slide this assembly into the big brace and apply glue along the joints.



7 Glue the support tube an inch or so into the mount tube. Glue the T-plate into the end of the mount tube. **NOTE:** For mini-motor kits, leave off the mount tube.



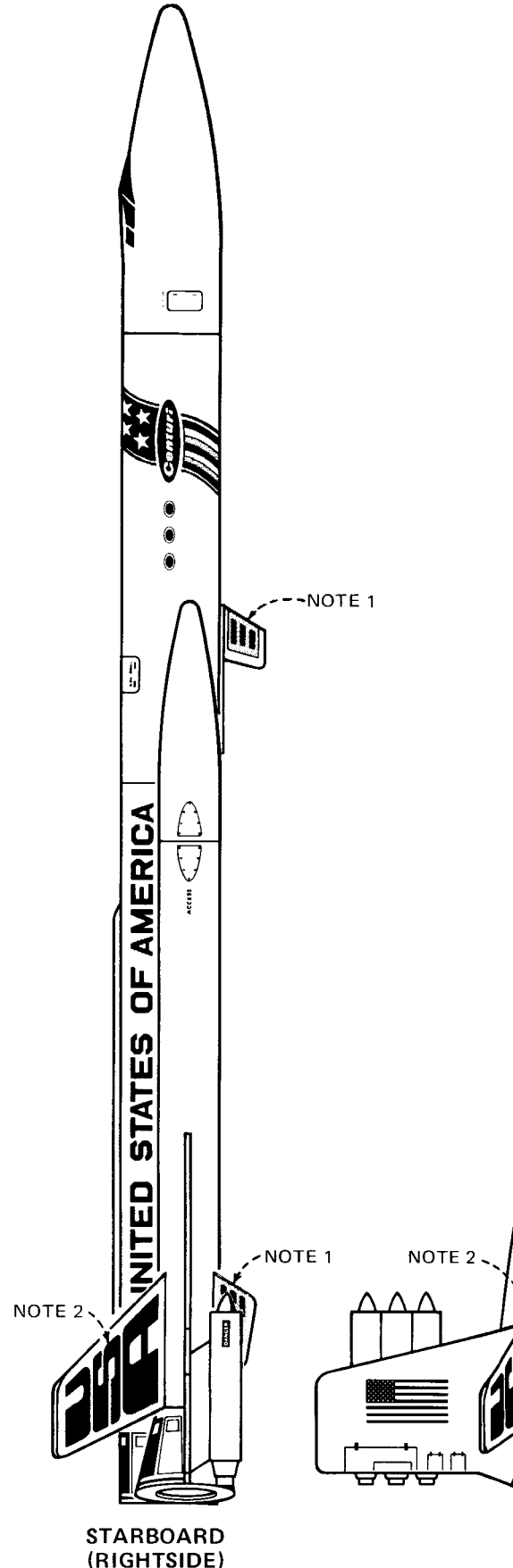
8 Decide whether you want vertical or angled display . . . insert the support tube just barely thru the hole in the hub and position it. Test fit the brace assembly to check its fit, then glue it in place. **MAKE SURE YOU HAVE A RIGHT ANGLE WHEN VIEWED FROM THE FRONT, OR YOUR ROCKET MAY TIP OVER.**



9 **IMPORTANT:** Apply a glue fillet to **EVERY** exposed joint, and smooth excess glue away with your finger tip.

10 Here are some optional assembly tips . . .

- A: Glue the scrap (marked with a star in Step 1) under the long leg for extra strength.
- B: Smooth any rough edges with fine sandpaper, and spray paint the Rocket-Rack a color such as white, red or silver.



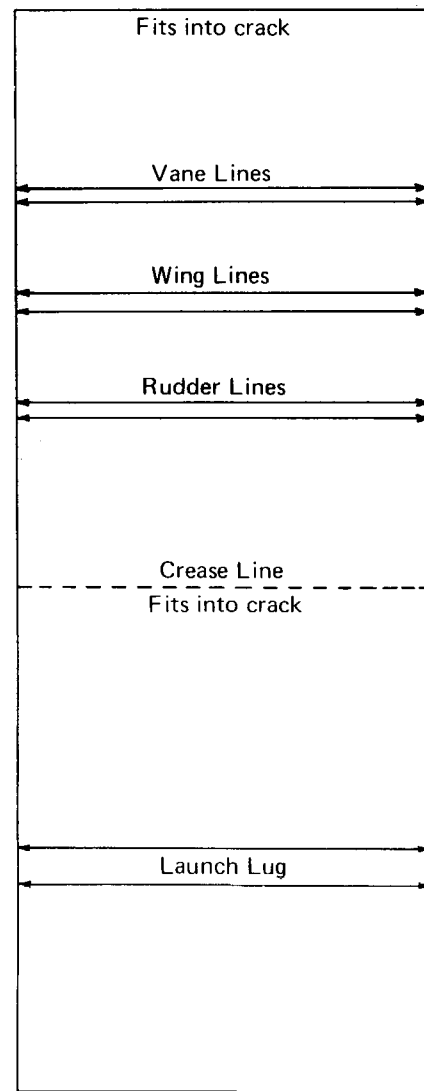
DECAL INSTRUCTIONS

1. Clean surface free of oil or grease.
2. Dip decal in water, Approx. 10 sec.
3. Have surface very wet for easy sliding into position.
4. Slide decal from paper to proper location.
5. Remove all air bubbles.
6. Wash decal to remove excess adhesive.

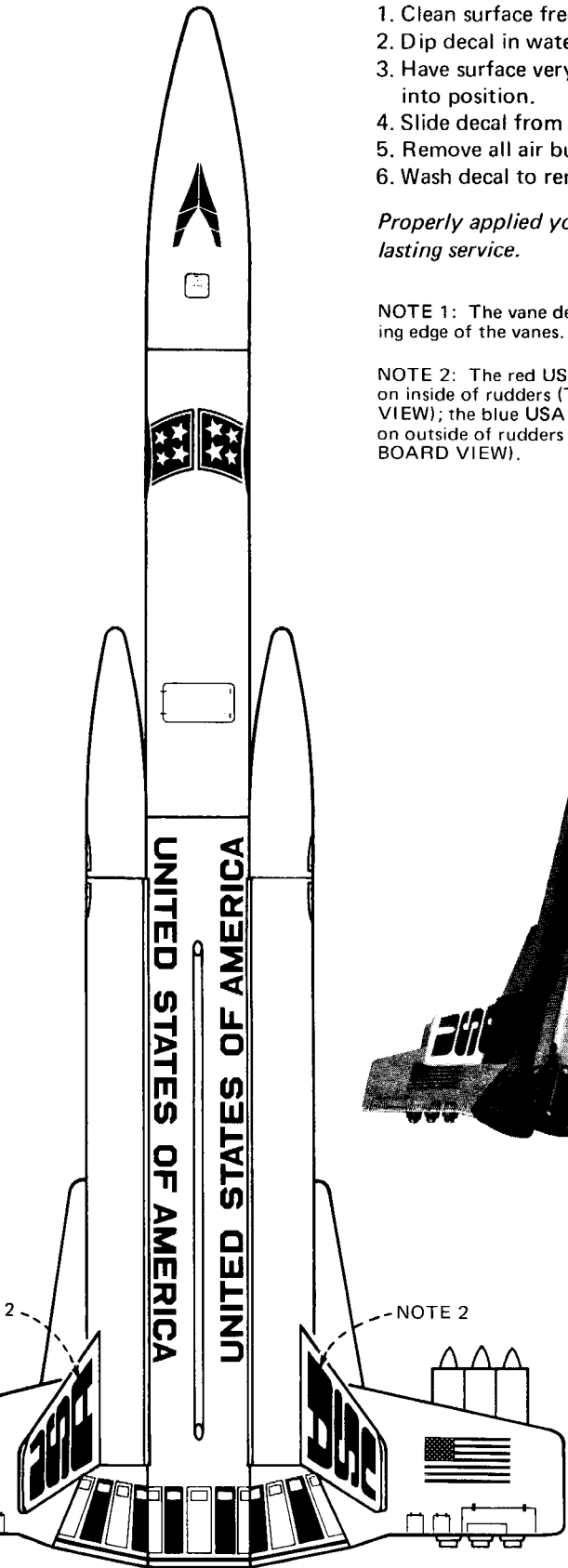
Properly applied your decal will give long lasting service.

NOTE 1: The vane decals wrap around the leading edge of the vanes.

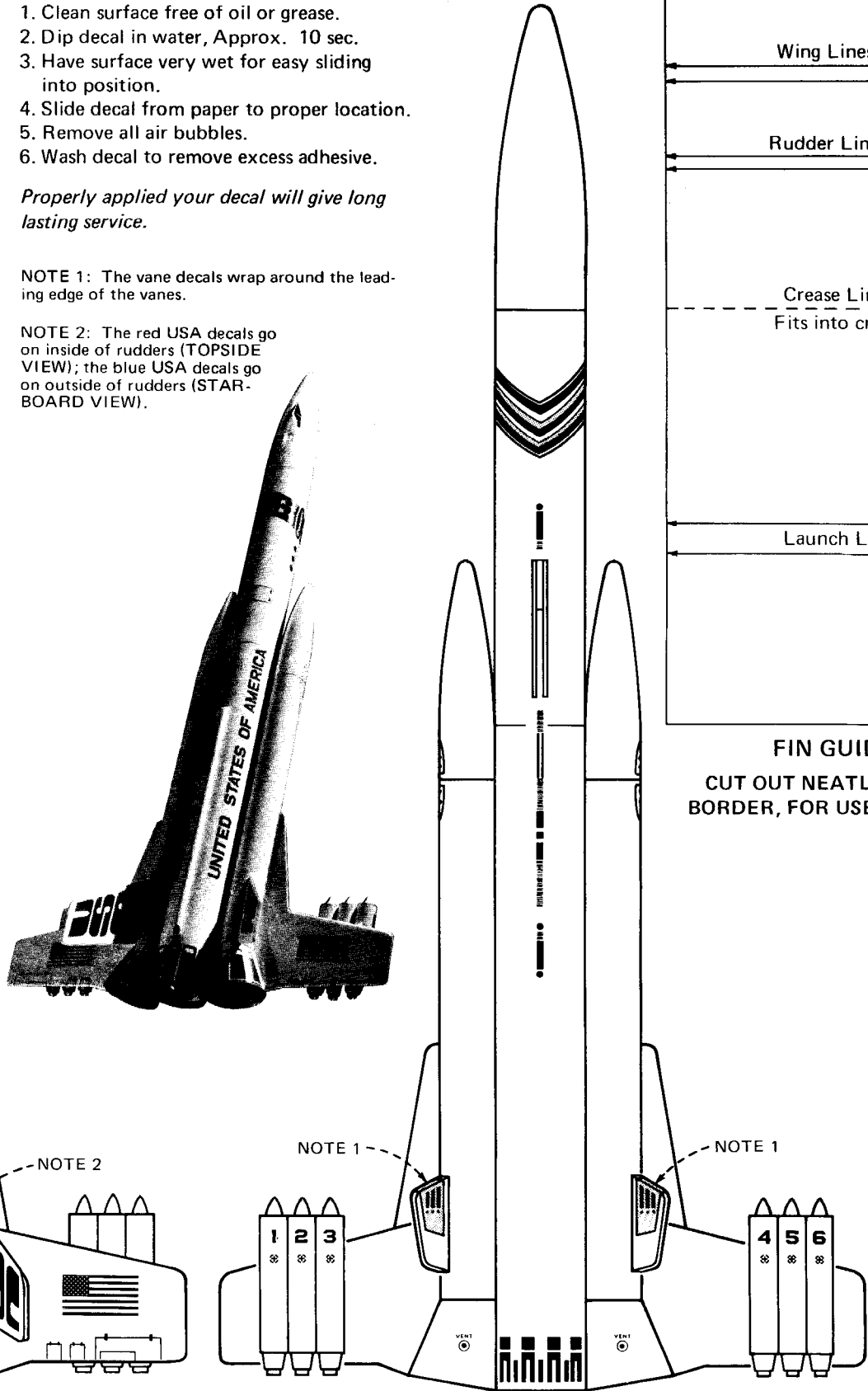
NOTE 2: The red USA decals go on inside of rudders (TOPSIDE VIEW); the blue USA decals go on outside of rudders (STARBOARD VIEW).



FIN GUIDE
CUT OUT NEATLY ALONG BORDER, FOR USE IN STEP 12

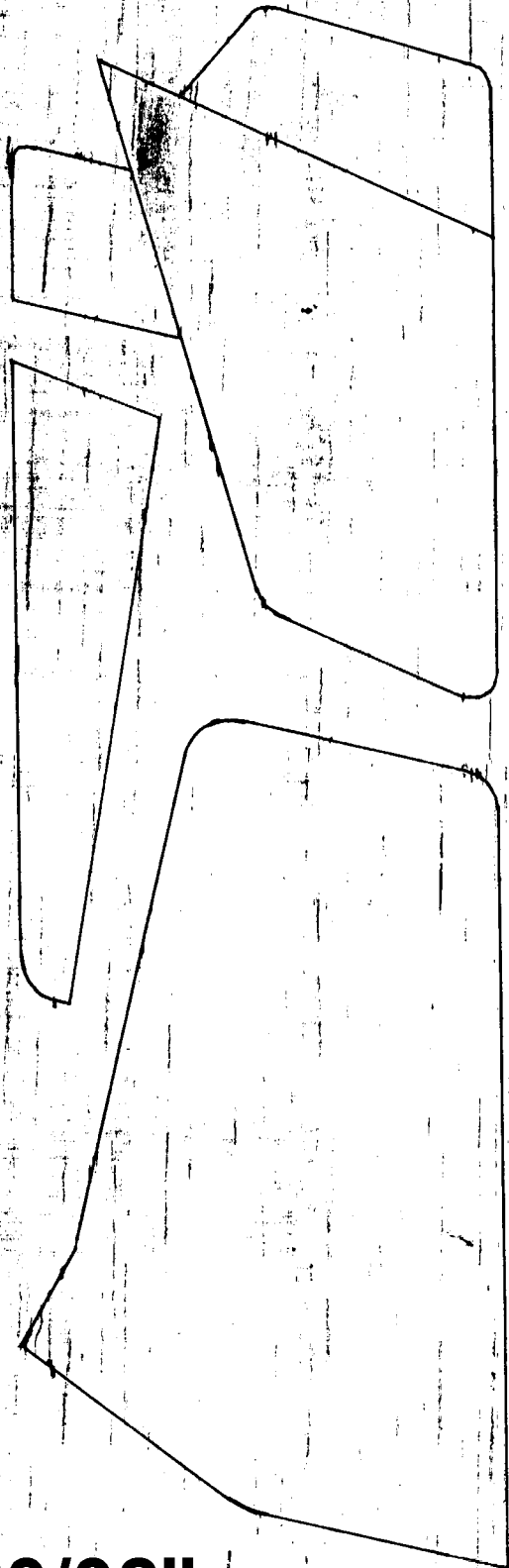
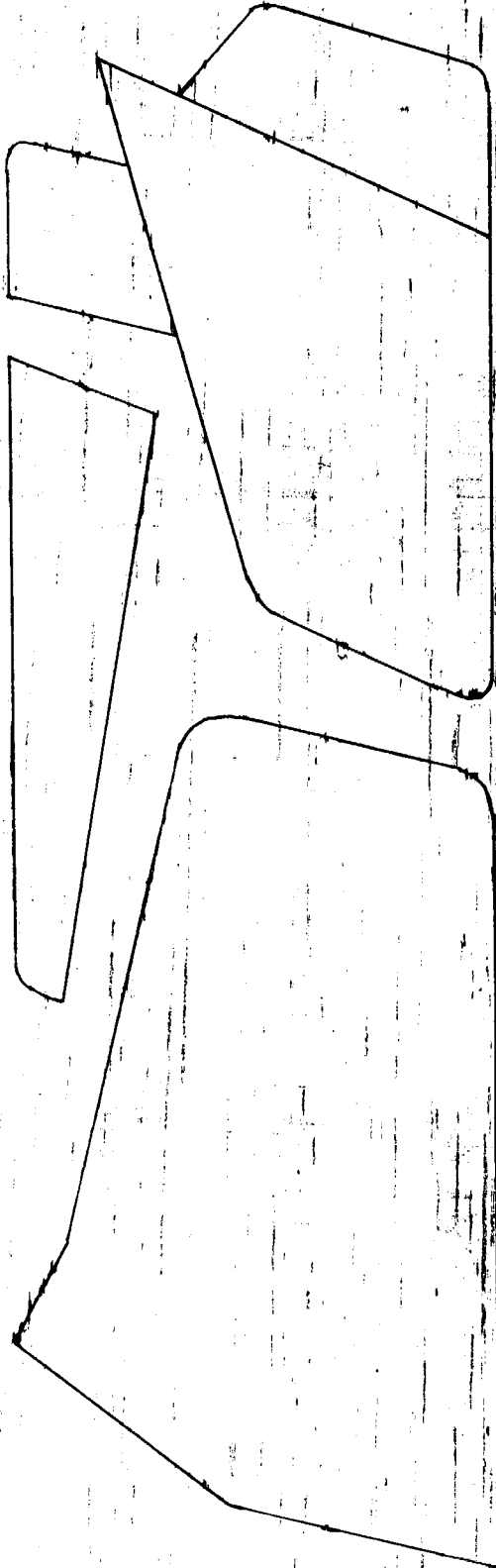


TOPSIDE

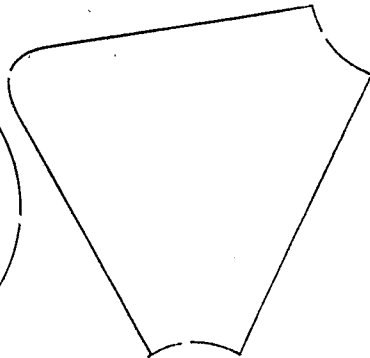
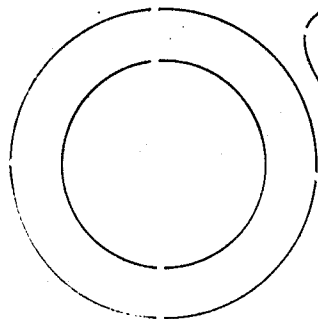
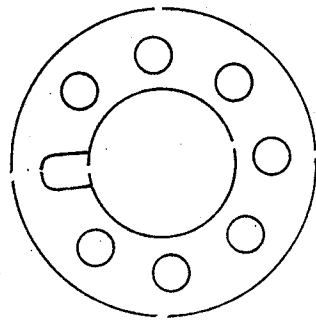
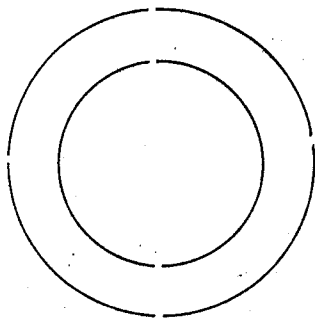
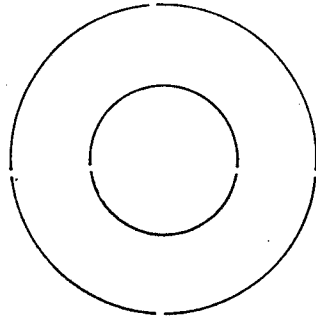
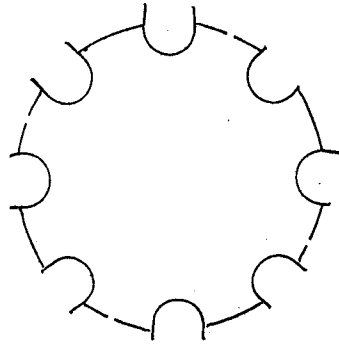
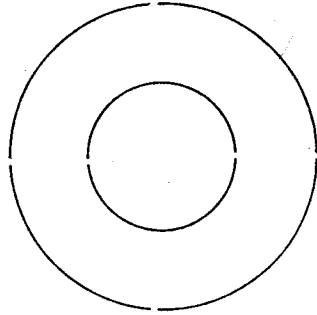
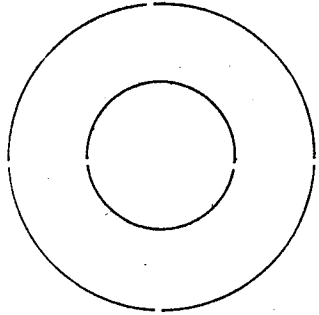
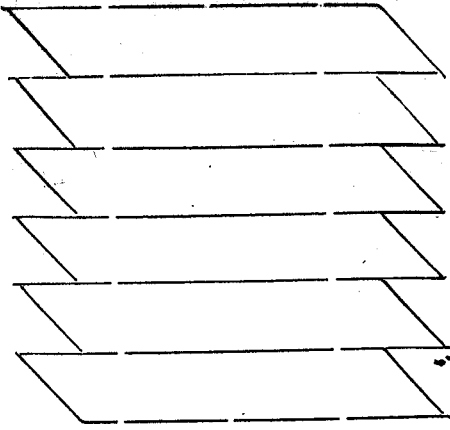
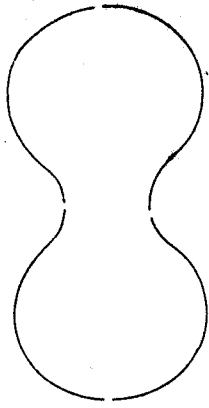


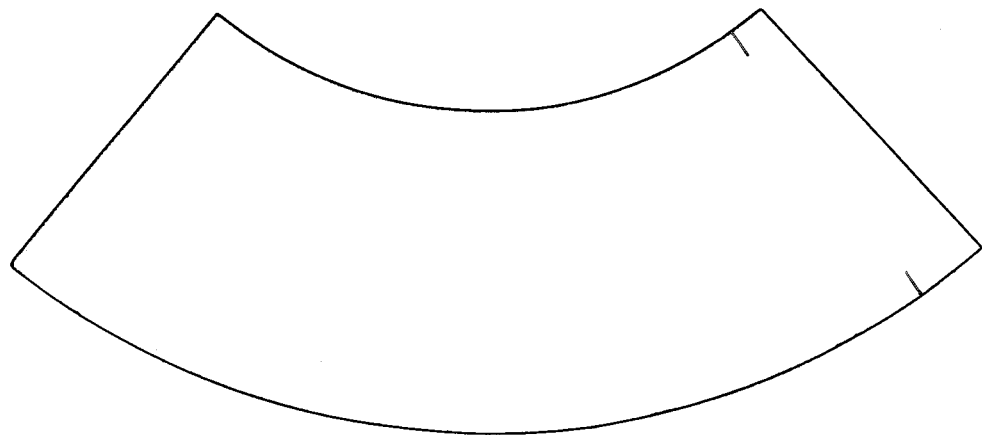
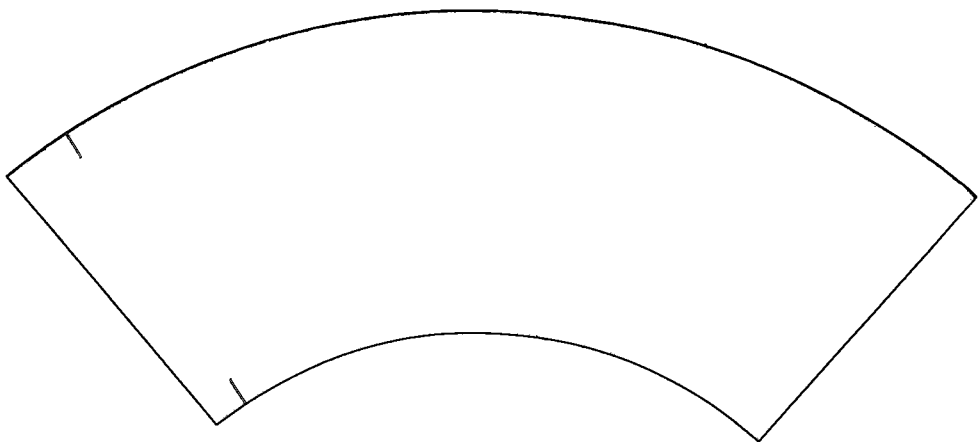
UNDERSIDE

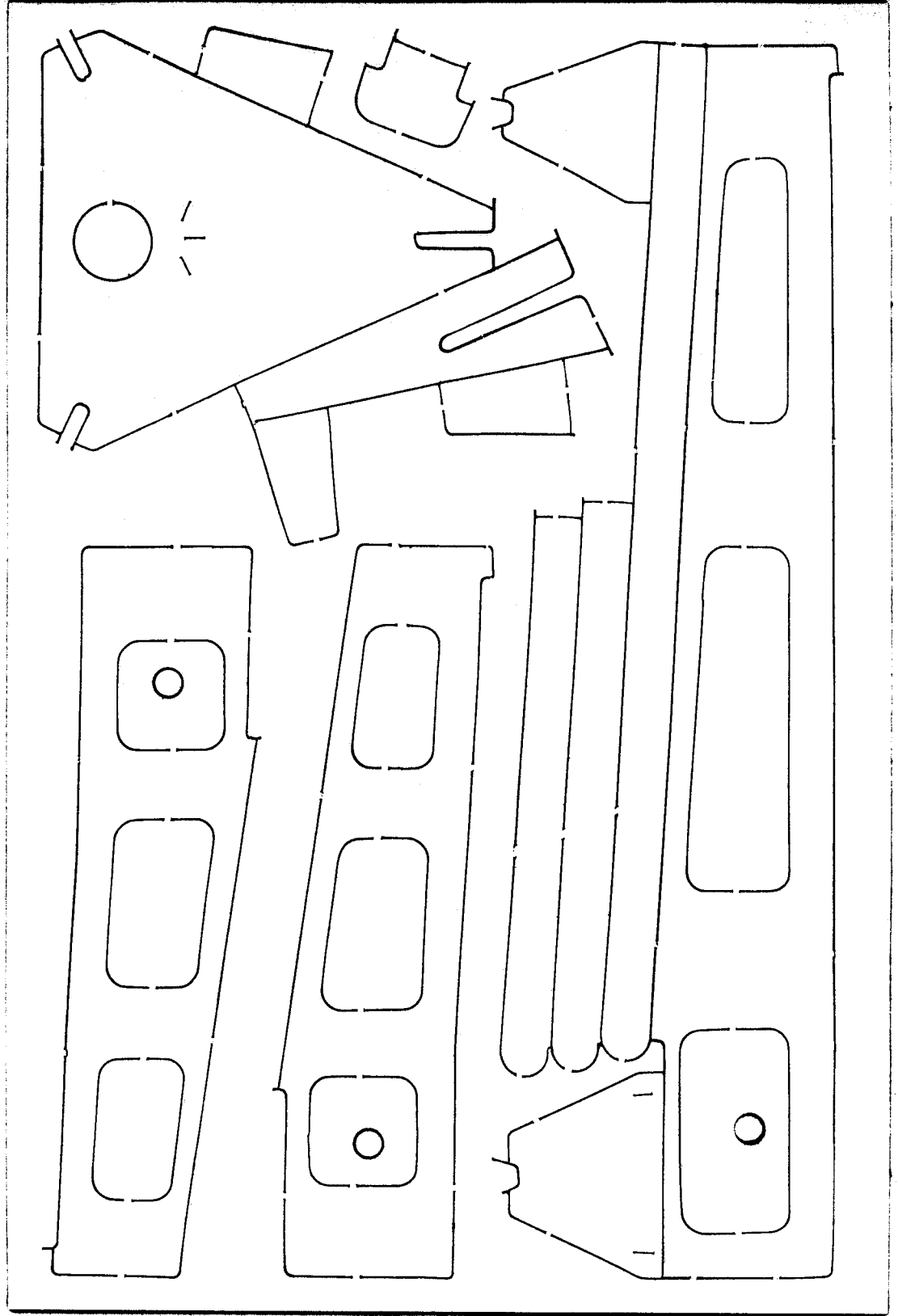




3/32"





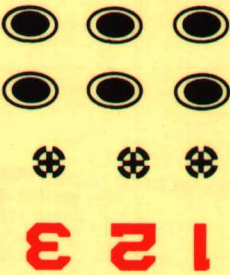
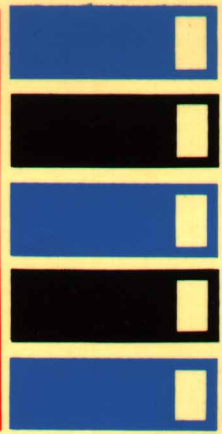


UNITED STATES OF AMERICA
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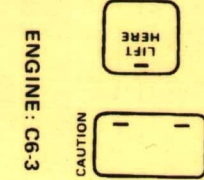
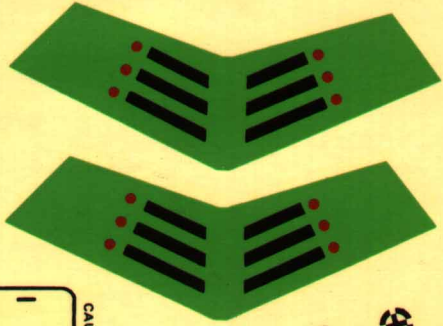
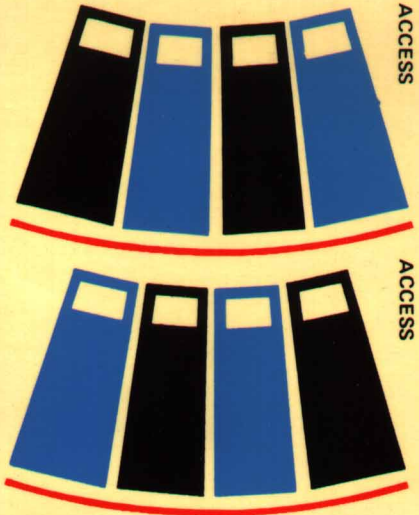
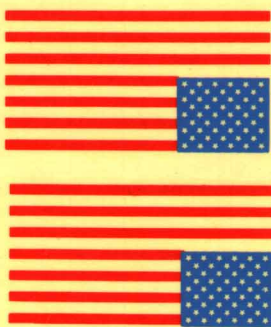
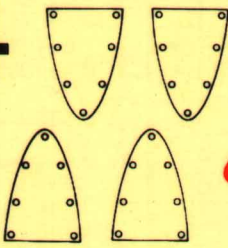


DANGER

DANGER



1 2 3



ENGINE: C6-3

HERNIMAN

VENT

VENT

U.S.S. AMERICA

U.S.S. AMERICA Decal #036812

Q	Desc	Stk Num	Size	Other
1	Plastic Nose Cone	N/C	5.5"L	W/Cockpit
2	Plastic Nose Cone	PNC-103	4.1"L	Cone & Base
6	Ramjet Nose Cones	N/C		
6	Ramjet Tail Cones	N/C		
1	Upper Body Tube	ST-16	7.5"L	Estes BT-60
1	Lower Body Tube	ST-16	12"L	Estes BT-60
2	Tank Body Tubes	ST-10	9.4"L	
6	Ramjet Body Tubes	ST-5	2.5"L	Estes BT-5
1	Launch Lug		7/32"Dia x 8"L	
2	Wood Dowel		.088"Dia x 12"L	1/12" Very Close
1	Engine Tube	ST-7	3"L	Estes BT-20
1	Thrust Ring			
1	Engine Lock			
1	Coupler		1 23/32"L	
2	Balsa Sheet		3"W 9"L 3/32"T	
2	Paper Shroud		Card Stock	
1	Fiber Diecut Sheet		.025"T	
6	Ramjet Supports			
1	Shock Cord Fastener			
2	Shroud Rings			
1	Front Baffle Disk			
1	Rear Baffle Disk			
2	Centering Disks			
1	Perferated Centering Disk			
1	Rudder Brace			
1	Fiber Diecut Display Base		.055"T	Sheet Styrene works
1	Display stand tube	N/C	6"L 1/16"T wall	1/2" Dowel works
1	Engine Casing			Used Engine
1	Shock Cord		1/8"W x 38"L	
2	Chute Pack	CP-20		
	Parachute		20" Red/Wht	
	Shroud Line		128"	
	Tape Disk(8)		1/2"	
1	Decal		6" x 12.5"	Red/Blu/Blk/Grn