

O.G.M. ROANOKE

The O.G.M. Roanoke is an orbital gunship/minelayer of the American Alliance in the late 21st century.

This kit has pre-cut balsa wood fins, pre-shaped nose and features rear ejection parachute deployment. Also included are plastic engine pods, 5/32" diameter dowel, and pre-shaped hardwood gun pods (on sides of rocket). Stickers and pin striping are included.

SKILL: Level 2

LENGTH: 25"

DIAMETER: 2.5"

WEIGHT: 20 ounces

MMT: (2) 24mm

RECOVERY: 24" rip-stop nylon parachute

RECOMMENDED MOTORS:

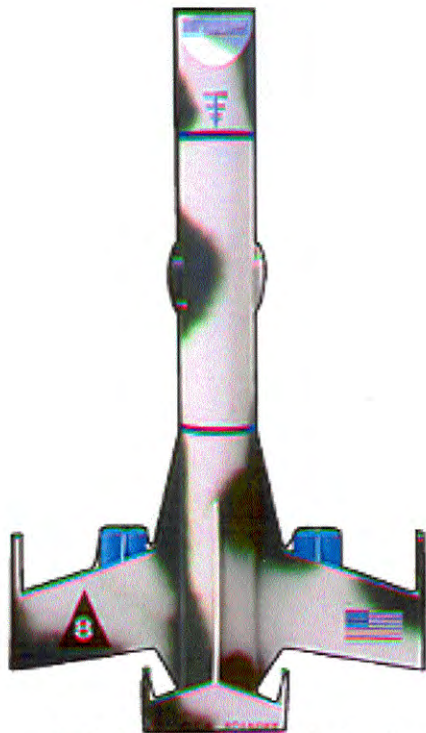
(2) D12-5, (2) E15-7, (2) E30-7

All kits require assembly. White glue, epoxy, finishing supplies, launch system, recovery wadding and rocket motors for launching are NOT included.

-Since FAT CAT ROCKETS, INC. cannot control the use of its products once sold, FAT CAT ROCKETS, INC. cannot be held responsible for any personal injury or property damage resulting from the use, handling or storage of this product and its components. The BUYER ASSUMES ALL RISKS AND LIABILITIES therefrom and accepts and uses FAT CAT ROCKETS, INC. products on these conditions.

-All our model rocket kits are RECOMMENDED for age 12 and up with adult supervision.

-Our rocket kits contain small components that could easily be swallowed by young children. Keep all components out of reach of all children under 10 years of age.

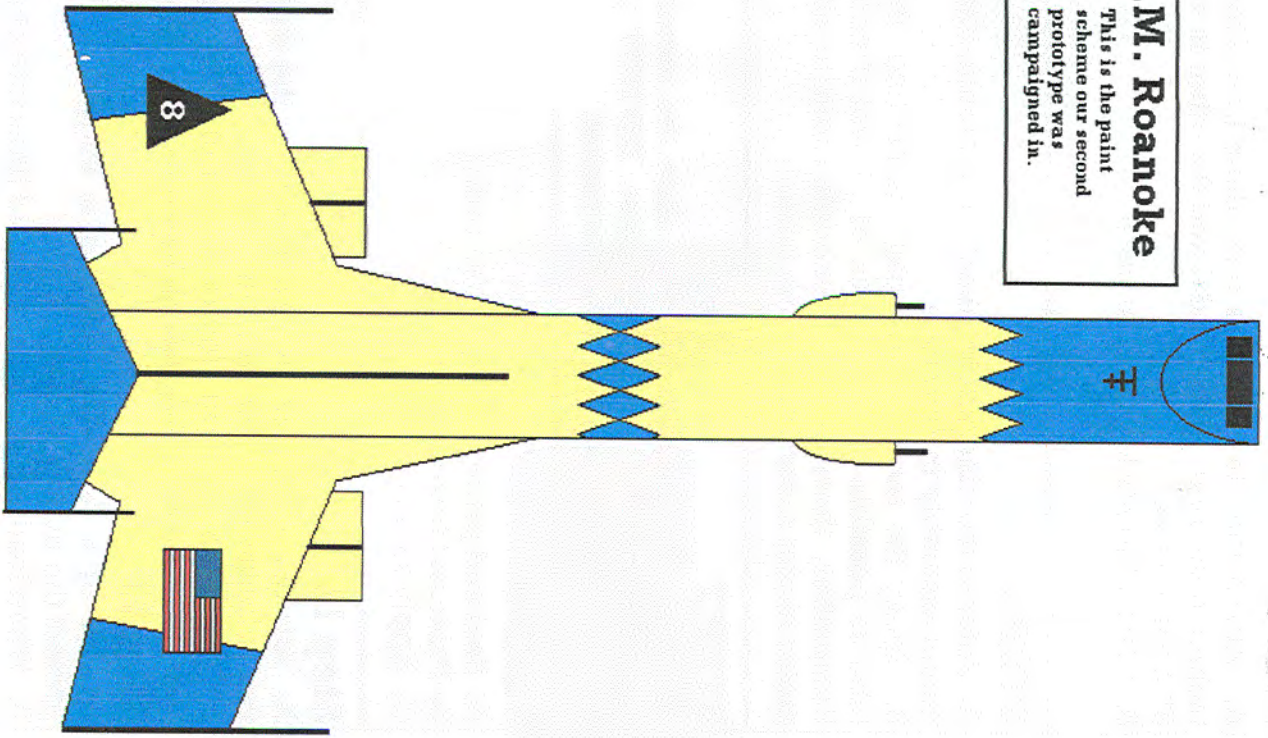


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O.G.M. Roanoke

This is the paint scheme our second prototype was campaigned in.



For any questions please contact us at www.fatcatrockets.com

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ASSEMBLY INSTRUCTIONS

Items you will need to assemble this kit:

- ◆ PENCIL
- ◆ HOBBY KNIFE
- ◆ SANDPAPER
- ◆ YELLOW GLUE
- ◆ PLASTIC CA GLUE
- ◆ EPOXY
- ◆ PAINT(your choice)
- ◆ RULER

PARTS LIST

- ◆ BODY TUBE $2\frac{5}{8}$ " x $11\frac{1}{2}$ " N/A = Not
- ◆ MOTOR MOUNT TUBE $24mm \times 1\frac{1}{2}$ " *can attach to*
- ◆ LAUNCH LUGS *for body tube*
- ◆ BULKHEAD PLATE
- ◆ CENTERING RINGS
- ◆ THRUST RING
- ◆ PRE-CUT FINS
- ◆ ENGINE PODS
- ◆ SHOCK CORD MOUNT
- ◆ SHOCK CORD
- ◆ 24" PARACHUTE
- ◆ STICKERS
- ◆ 1/8" DOWEL $1\frac{3}{4}$ "
- ◆ 1/4" DOWEL
- ◆ HARDWOOD PODS (BLISTERS)
- ◆ 1/8" PLASTIC TUBE

2--

STEP 1

- A. Using the wing and upright pattern as reference, layout and glue the wing and upright components together. Mark the bottom of the wings with pylon lines.
- B. Cut 1/8" dowel wood to lengths shown and attach to wing and crossbar tips.
- C. Glue crossbar to fin upright.
- D. Cut four 5/8" long pieces from the plastic tube. Attach each tube into the gun pods (Hardwood pods) as shown.

STEP 2

- A. Using the body tube guide, mark the body tube for wing, upright fin, and launch lug placement. Make sure chisel point of nose cone is in line with wing lines. Draw the wing lines down the full length of the body and the other lines 8" from the rear.
- B. Sand and round the leading and trailing edge of the fins/wings as desired.

STEP 3

- A. Attach the wings, and the fin upright to the body tube. (rough up tube slightly for better adhesion)
- B. Attach 1/4" dowel under each wing at the body joint.
- C. Attach gun pods onto wing lines as shown.

STEP 4

- A. Using a CA plastic adhesive, glue the engine pods into pairs and attach them to the engine pylons as shown
- B. Attach the finished pod assemblies onto the lines drawn under the wing. The front of the pylons are 1/4" back from the front of the wing.

STEP 5

- A. Attach the launch lugs onto their line. One is attached to the rear of the model and the other is attached 8" from the rear.
- B. Fillet all joints for reinforcement

STEP 6

- A. Refer to the diagram for shock cord mount, and motor mount assembly instructions
- B. Epoxy the the bulkhead plate as far into the body tube as possible. Use a piece of dowel if necessary. Remember, there must be enough room to slide the motor mount assembly into the tube.

STEP 7

- A. When the bulkhead is dry, slide the motor mount assembly into the back of the rocket. **DO NOT** glue this assembly in, this is a rear ejection rocket.

STEP 9

- A. Seal and prime rocket as desired.
- B. Paint and finish as desired.
- C. Apply stickers as shown.

Step 10

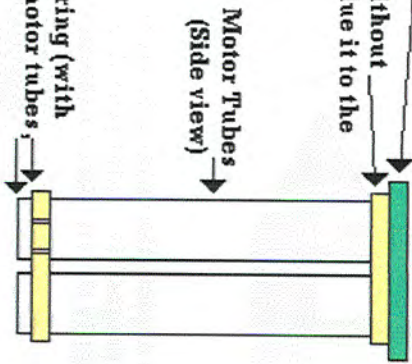
- A. Attach one end of the shock cord to the cable loop that is between the motor tubes.
- B. Attach the parachute to the other end of the cord.

Step 11

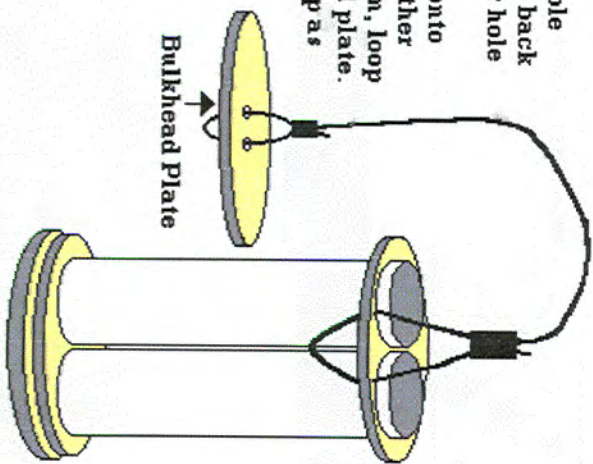
- A. Use of a recovery wadding is suggested to help protect the bulkhead plate.
- B. When loading chute, fold shroud lines into chute, and lay chute loosely around motor tube.

Step 6 Part A

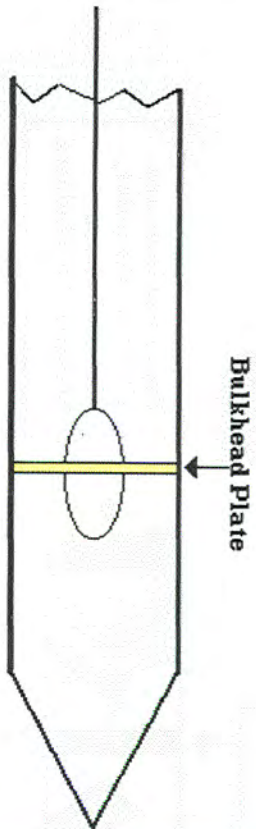
1. Glue the thrust plate to the end of the motor mount tubes.
2. Slide the centering ring (without holes) down the tube and glue it to the thrust ring.
3. Glue the second centering ring (with holes) onto the end of the motor tubes 1/4" from the end.



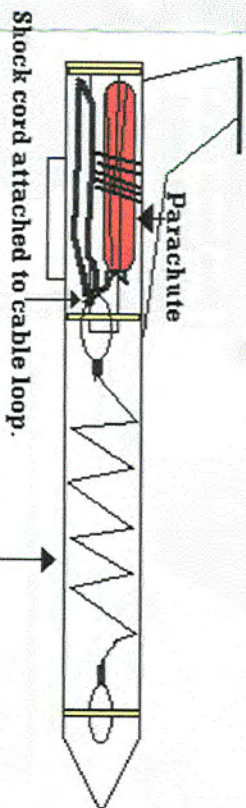
4. Loop the shock cord mount cable through the top of one hole and back through the bottom of the other hole of the centering ring. Install one of the copper clips onto the loop and crimp. Place the other copper clip onto the cable. Then, loop the cable through the bulkhead plate. Install and secure the other clip as before.



Step 6 Part B



Step 11 Part B



Cut-away view

Turn motor mount tube when prepping for flight. This makes the mount cable coil up inside the body tube.

Note: Motor tube should slide out easily.

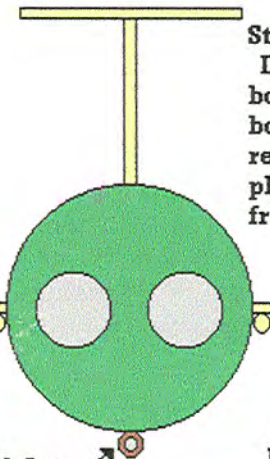
LOOK !

Step 5A

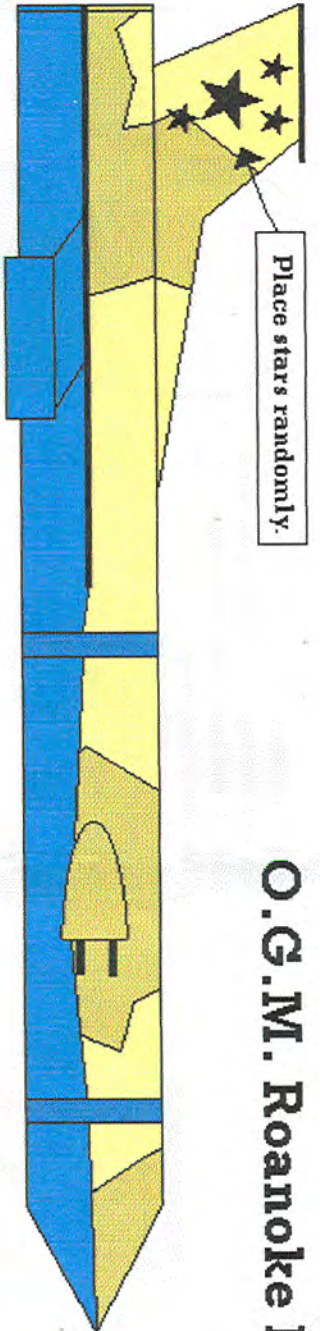
Draw a line on the bottom center of the body. Place one lug to the rear of the body and place the other lug 8" from the rear.

Launch Lug

Rear View

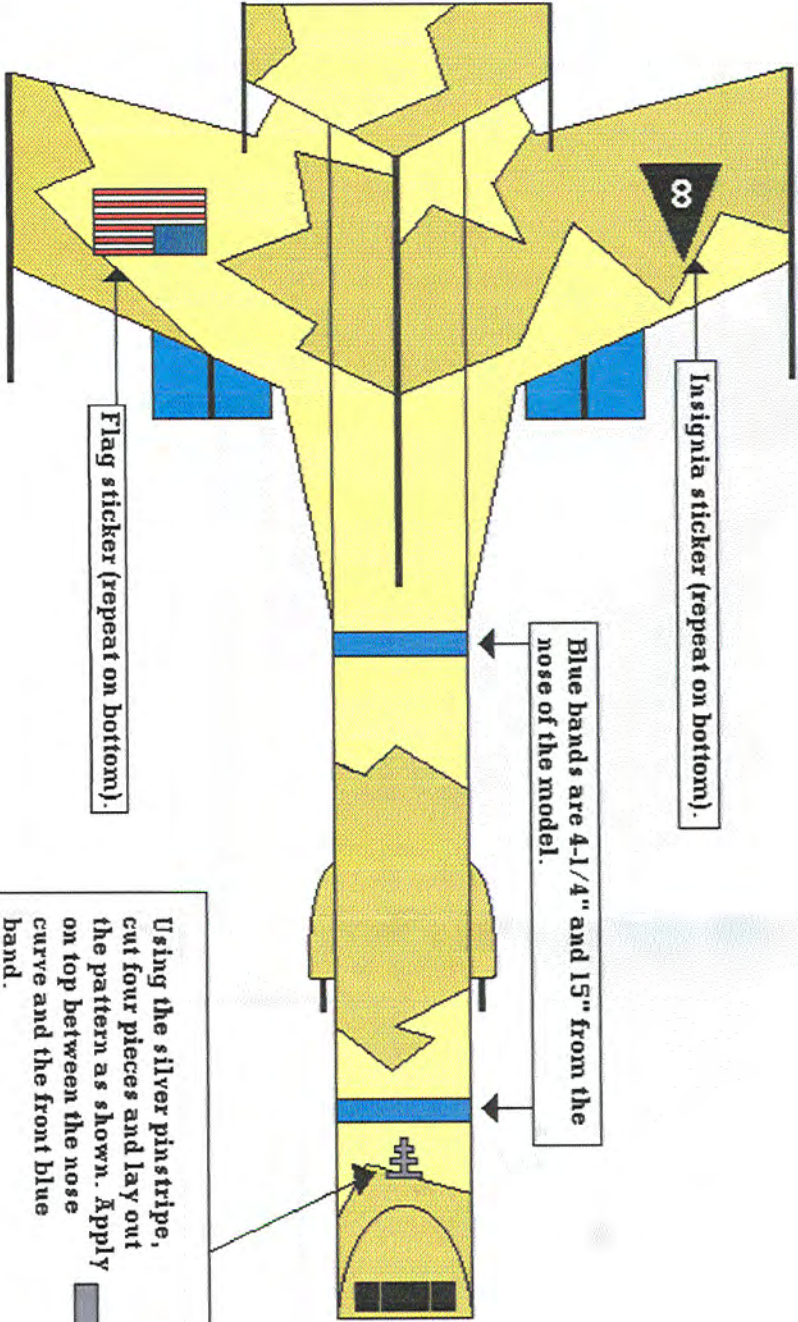


O.G.M. Roanoke Finish Page



Place stars randomly.

The page depicts the paint scheme that our prototype was campaigned in. Paint your O.G.M. Roanoke as you desire. Apply the stickers as shown.



Insignia sticker (repeat on bottom).

Blue bands are 4-1/4" and 15" from the nose of the model.

Flag sticker (repeat on bottom).

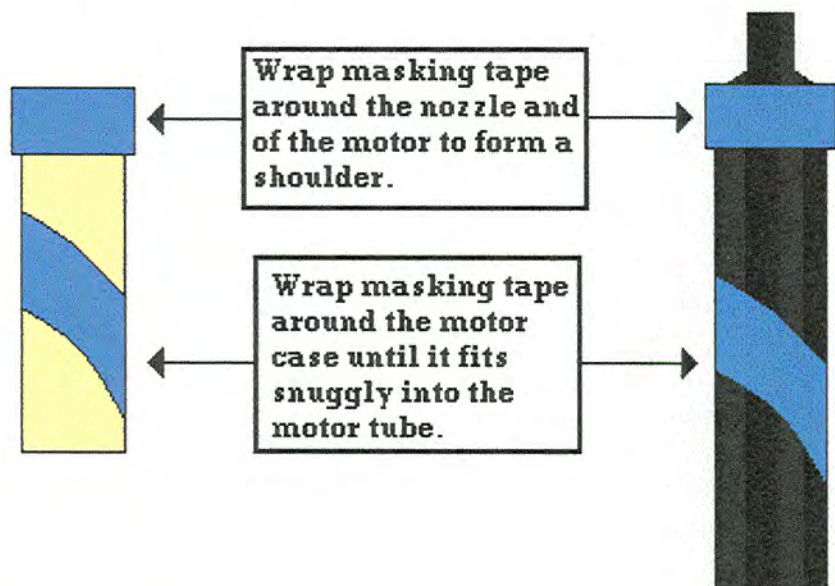
Top of windows are 1" from the point, with 1/8" space between the windows.

Using the silver pinstripe, cut four pieces and lay out the pattern as shown. Apply on top between the nose curve and the front blue band.

ATTENTION!

Be sure to follow NAR and TRA safety rules and codes when flying this model.

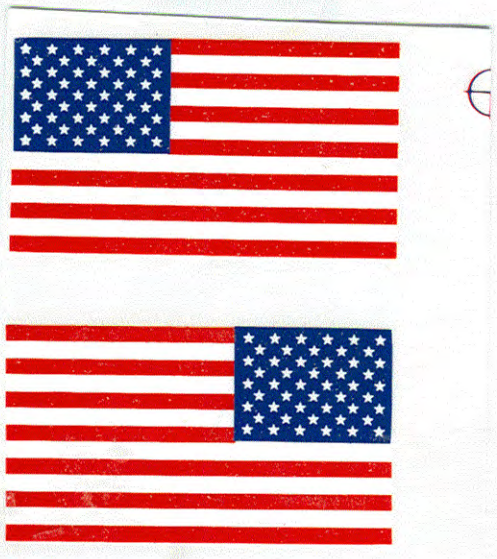
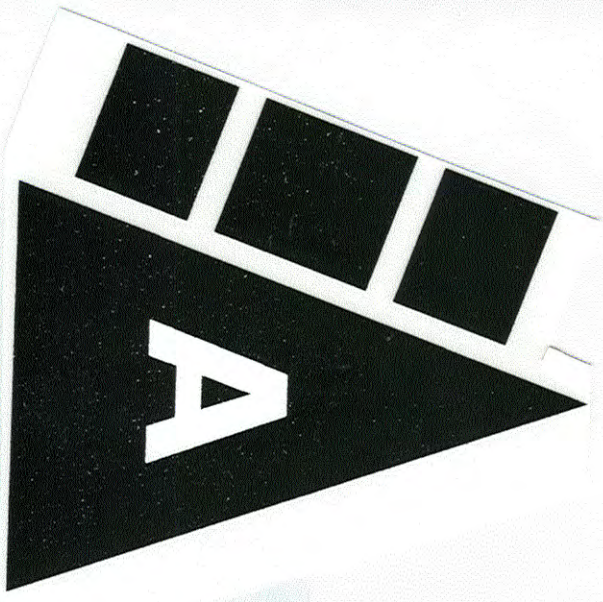
This model kit is designed for friction fit motor retention. Fat Cat Rockets leaves it up to the model builder to use whichever retention system they desire. Refer to the diagram for friction fitting info.



This model (if built to instructions standard) is properly weighted for flight.

Use at least a six foot rod for flying this model.

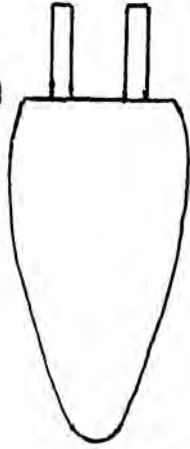
If you have any question, contact us at: 352-385-1994
or : info@fatcatrockets.com



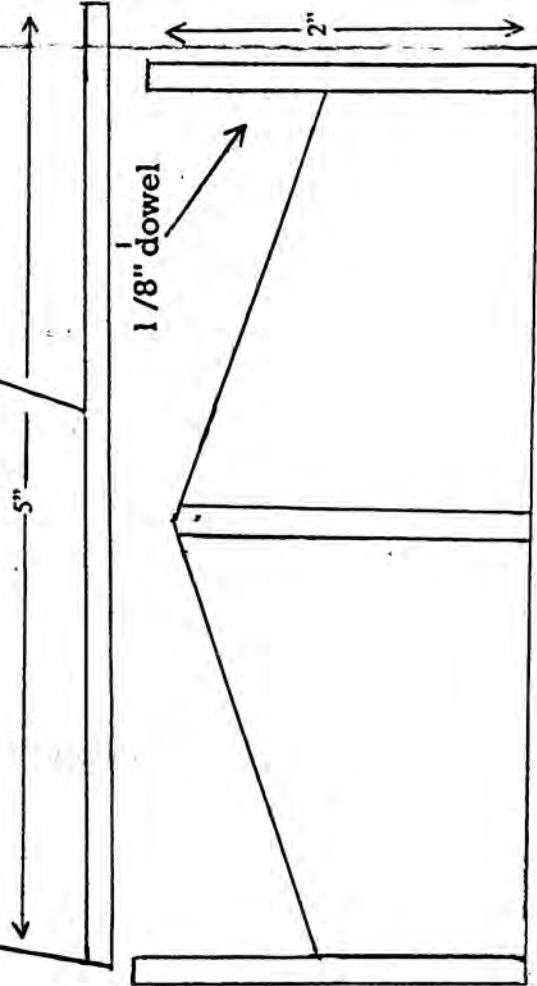


WING PATTERN

HARDWOOD PODS (BLISTERS)
1/8" PLASTIC



Pylon line



5"

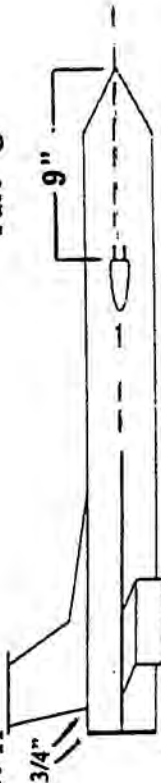
2"

1/8" dowel

STEP 3

Part A

3/4"



SIDE VIEW

STEP 3

Part C

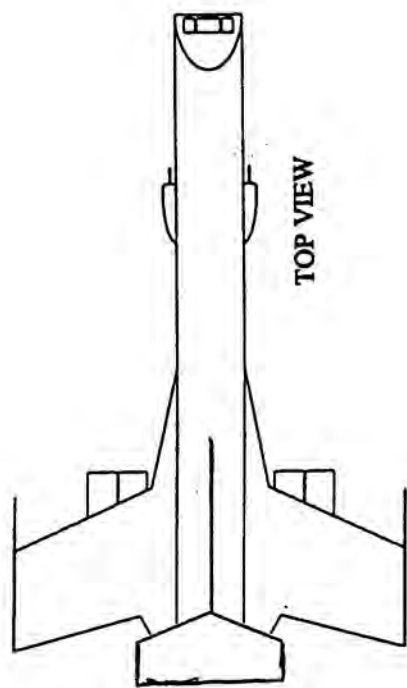
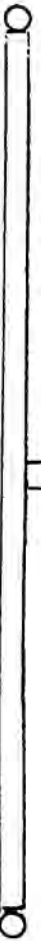
9"



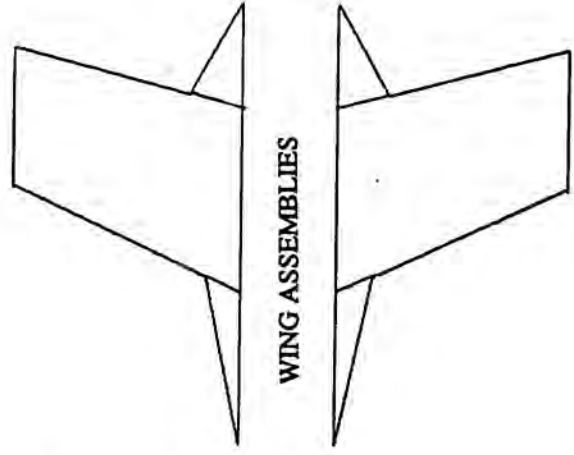
UPRIGHT



ENGINE PYLONS



TOP VIEW

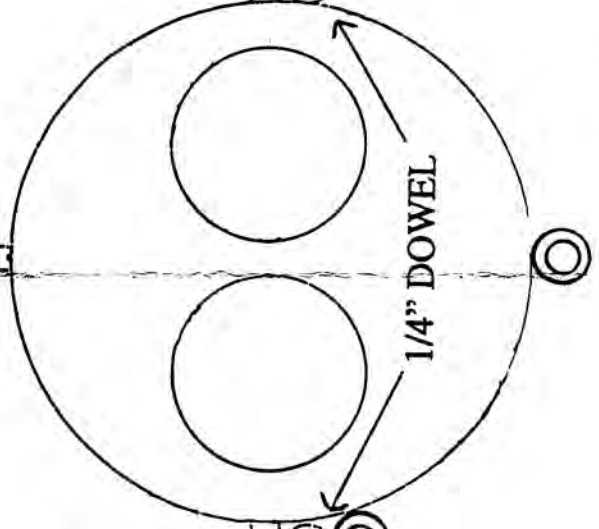


WING ASSEMBLIES

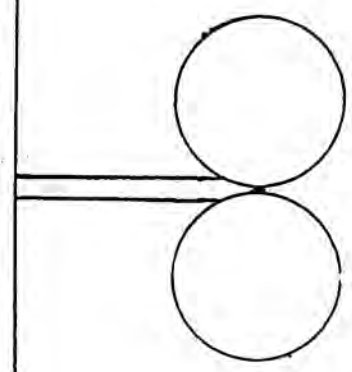


CROSSBAR

WING/TUBE TEMPLATE



1/4" DOWEL



ENGINE PODS

