

GALACTIC MARAUDER

Loaded with excessive firepower, the Galactic Marauder is the preferred warship of privateers.

The odd shaped nose cone comes pre-cut for ease in assembly. Fins are pre-cut balsa. Kit comes with 1/8" dowel and sticker decals featuring a black and white Jolly Roger and lightning bolts.

SKILL: Level 2

LENGTH: 24"

DIAMETER: 2.5"

WEIGHT: 9 ounces

MMT: 24mm

RECOVERY: 24" rip-stop nylon
parachute

RECOMMENDED MOTORS :

D12-5, F.15-7, F.30-7

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 thereof 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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ROCKETS, INC.

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GALACTIC MARAUDER

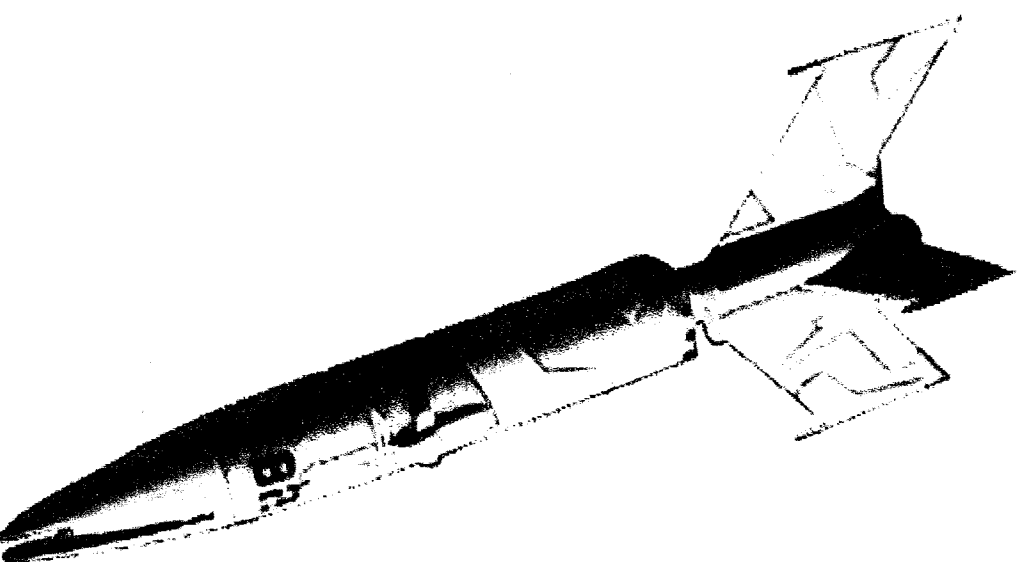
ASSEMBLY INSTRUCTIONS

**Items you will need to
assemble this kit:**

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

PARTS LIST

- ◆ PLASTIC NOSE CONE
- ◆ MAIN BODY TUBE
- ◆ MOTOR MOUNT TUBE
- ◆ (3) POD TUBES
- ◆ FINS
- ◆ CENTERING RINGS
- ◆ 1/8" DOWEL ROD
- ◆ POD CAPS
- ◆ CON TOWER (BALSA)
- ◆ SHEET PLASTIC
- ◆ PLASTIC TUBE
- ◆ LAUNCH LUG
- ◆ SHOCK CORD MOUNT
- ◆ 24" PARACHUTE
- ◆ PLASTIC TRANSITION
- ◆ DECALS

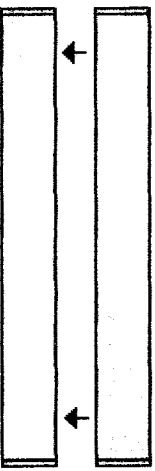


For any questions please contact us at info@fatcatrockets.com

1. With 240 grit sandpaper, rough up outside of the main motor tube. Then, mark the tube as indicated by the marking guide.



2. Install the plugs onto each end of the 1-1/2" tubes.



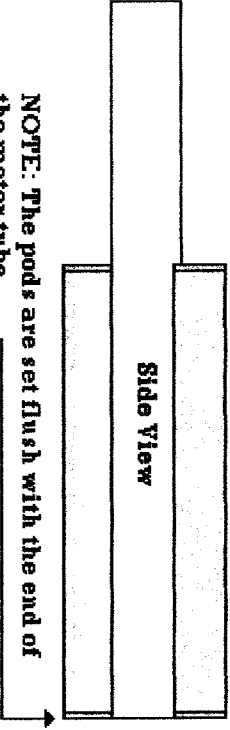
3. Glue two of the tubes together as shown.

Tail Assembly

4. When dry, attach the two pod assembly to its lines on the motor tube. When set, attach the third pod to its line on the motor tube.



End View

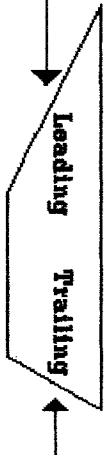


Side View

NOTE: The pods are set flush with the end of the motor tube.

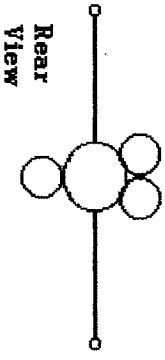
5. Wing/Fin Assembly. NOTE: Refer to FIN GUIDE for this step.

6. Sand round the leading and trailing edges of the lower fins.



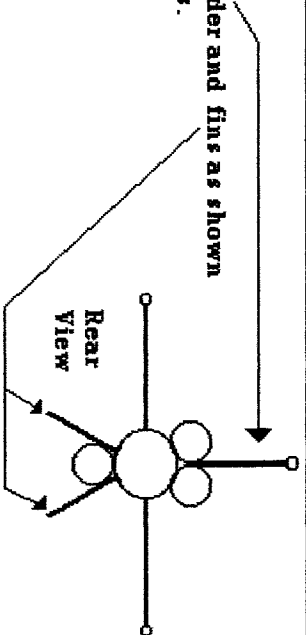
7. Attach the main wings onto their lines.

NOTE: Rear of wings, rudder, and fins are even with the rear of the tube pods.



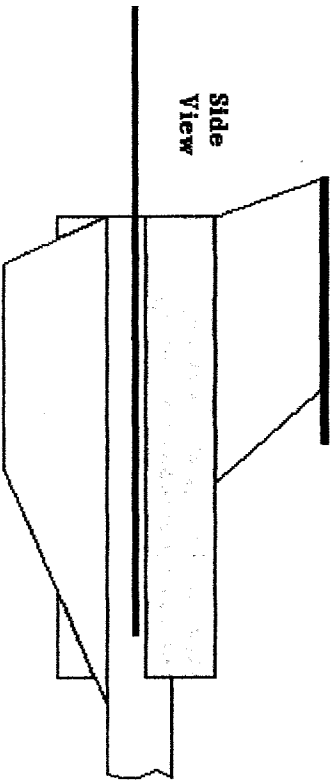
Rear View

8. Install the rudder and fins as shown. Fillet all joints.

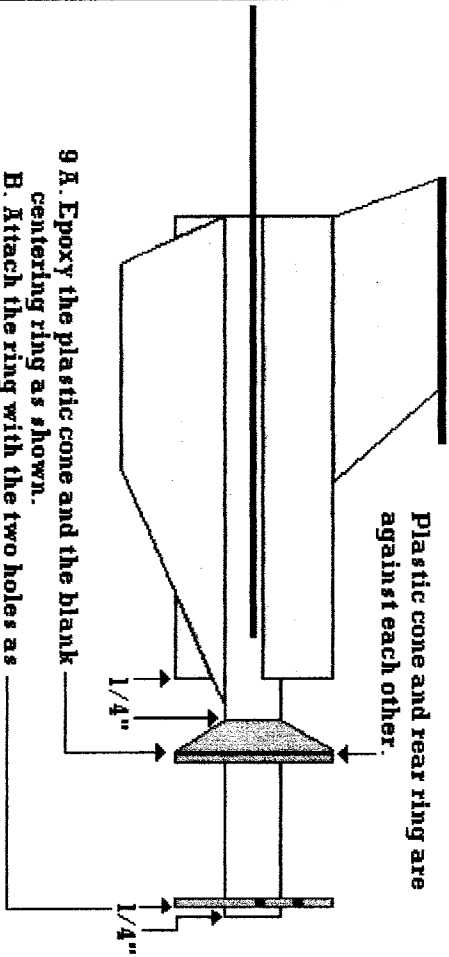


Rear View

Side View

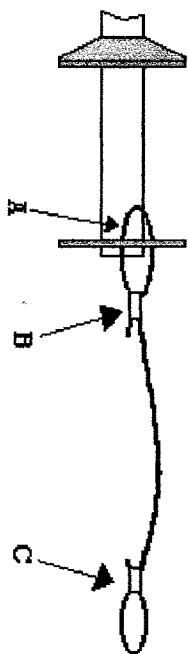


Plastic cone and rear ring are against each other.



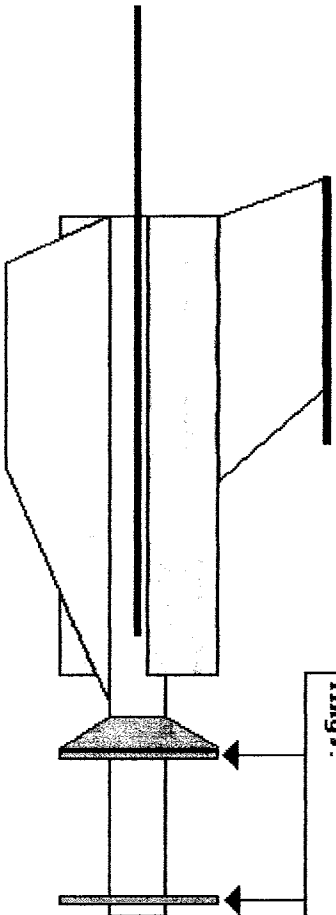
- 9 A. Epoxy the plastic cone and the blank centering ring as shown.
- B. Attach the ring with the two holes as shown.
- C. Fillet all joints.

11. Prime and sand this assembly as desired.

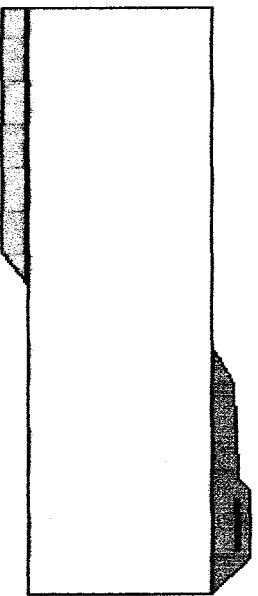
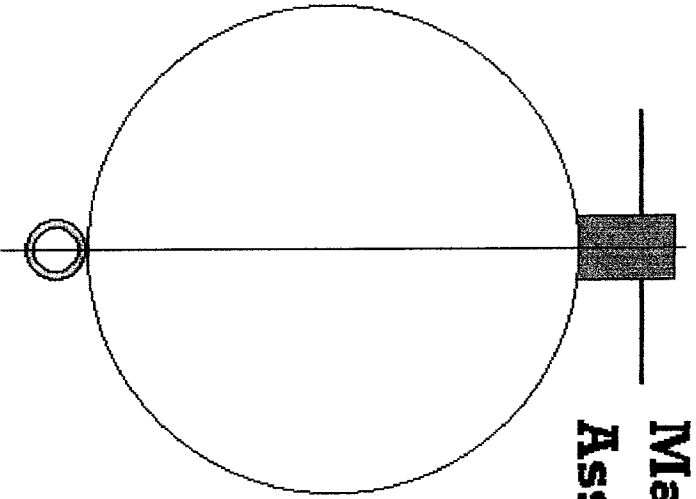


- 10 A. Loop the shock cord mount cable through one hole in the centering ring and back through the other hole.
- B. Slide one of the copper clips onto the end of the loop and crimp. Be sure that the cable is secure in the clip.
- C. Install the second copper clip onto the other end of the cable. Then form a loop, and slide the end of the cable back through the clip. Crimp the clip as done in Step B.

Do not prime the centering ring.



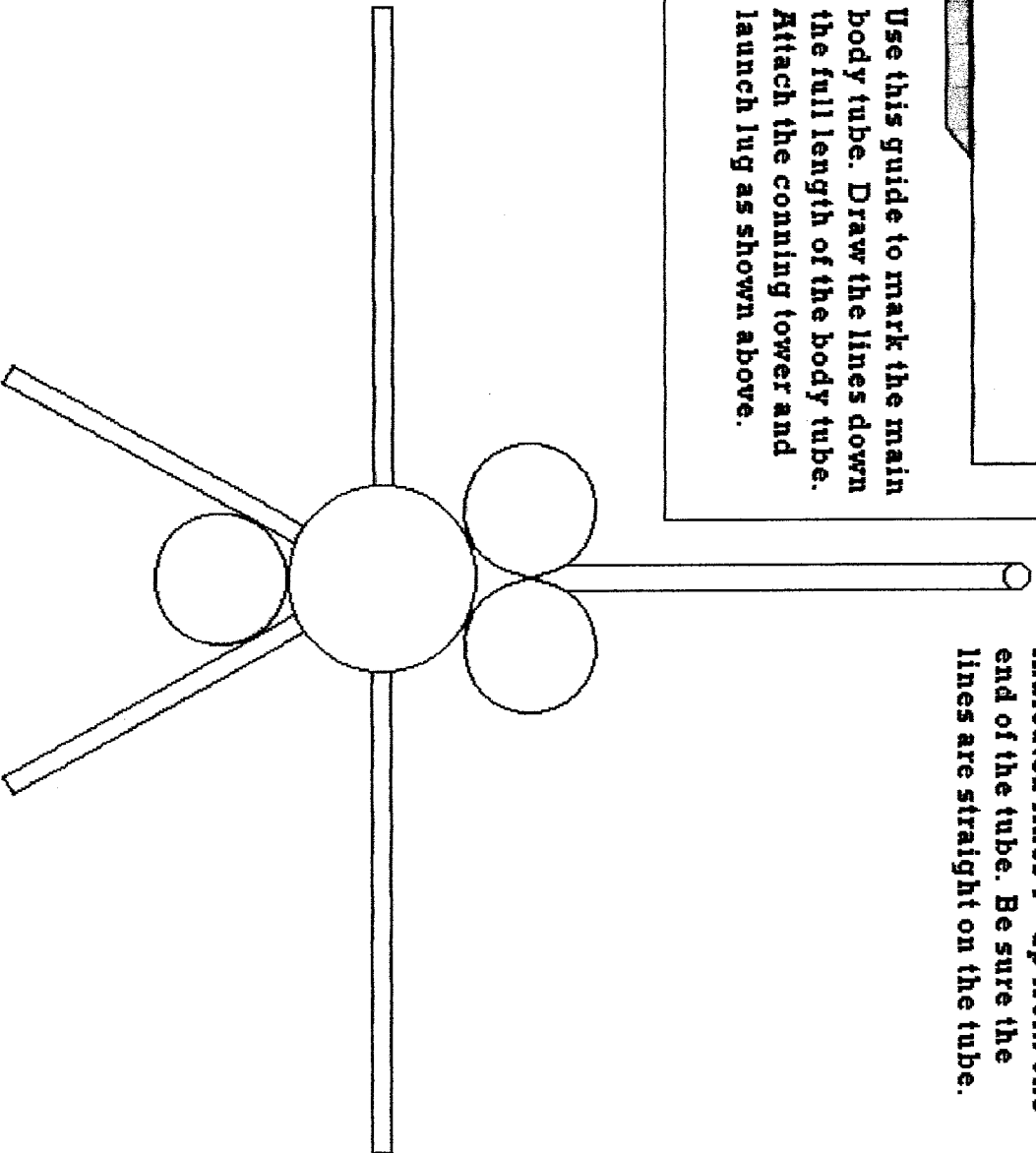
Main Body Assembly



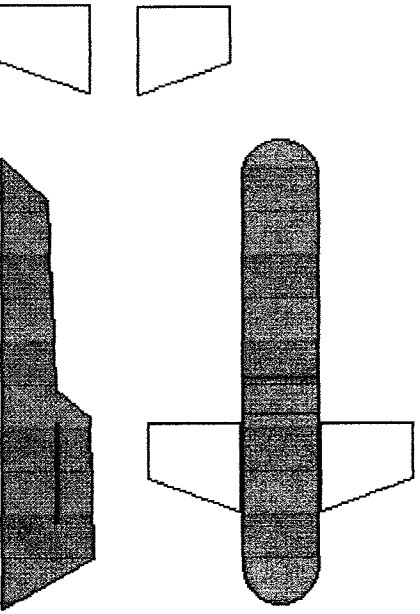
2. Use this guide to mark the main body tube. Draw the lines down the full length of the body tube. Attach the coning tower and launch lug as shown above.

Tail Assembly Marking Guide

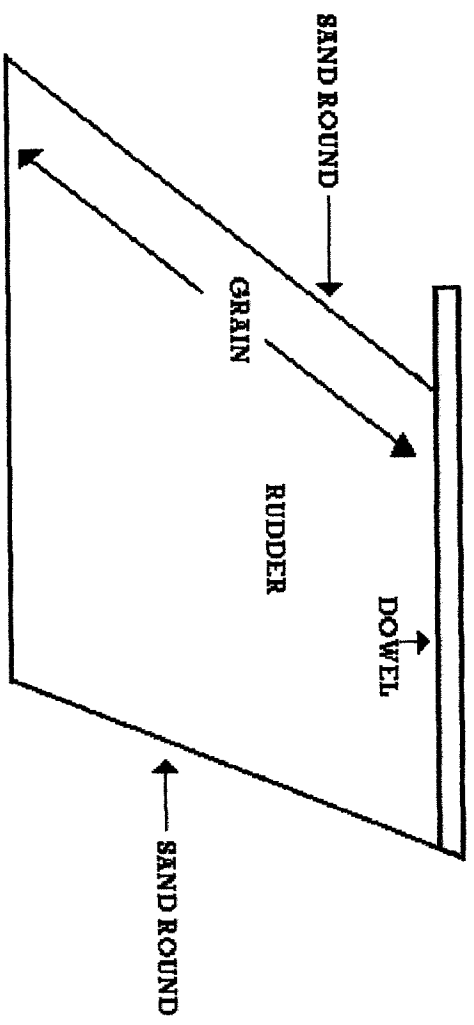
Use this guide to mark the motor mount tube. Draw the indicated lines 7" up from one end of the tube. Be sure the lines are straight on the tube.



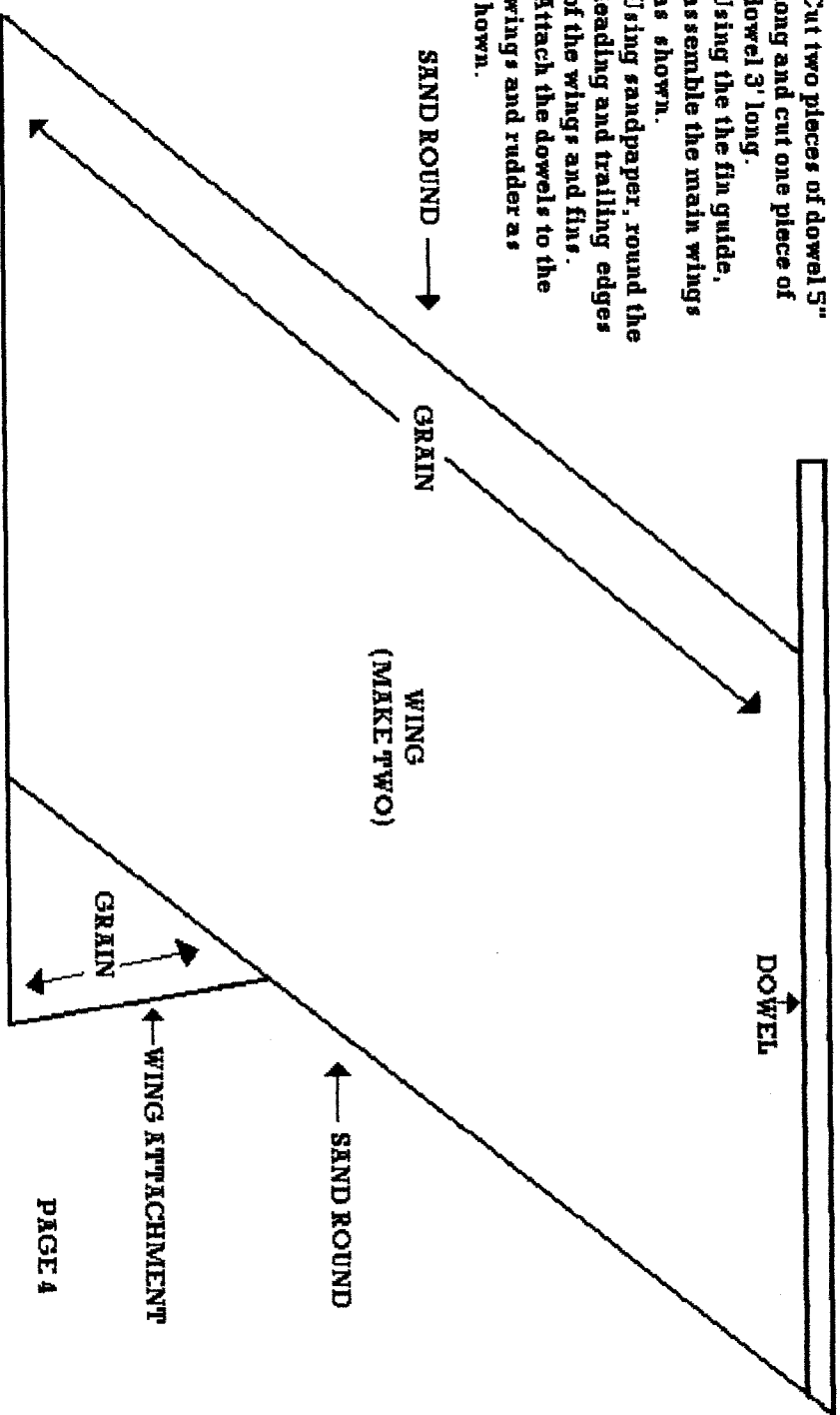
1. Using the pattern sheet, cut out two canards from the plastic sheet stock. Using plastic CA glue (Zap), attach the canards to the balsa coning tower as shown below.



Fin Guide

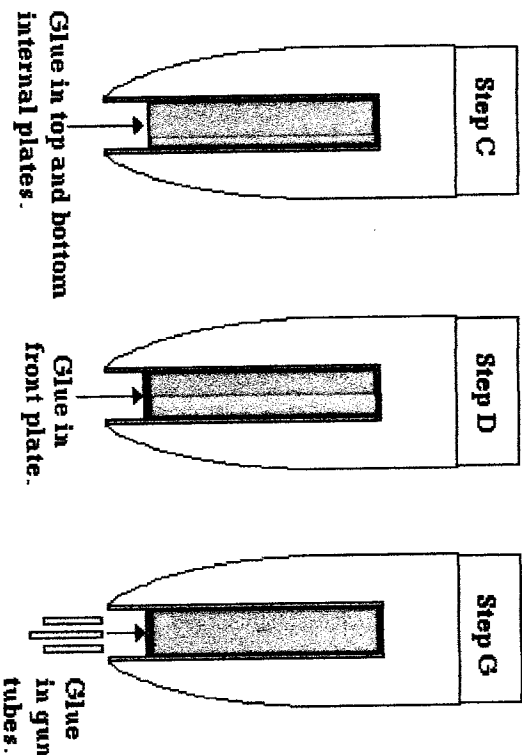
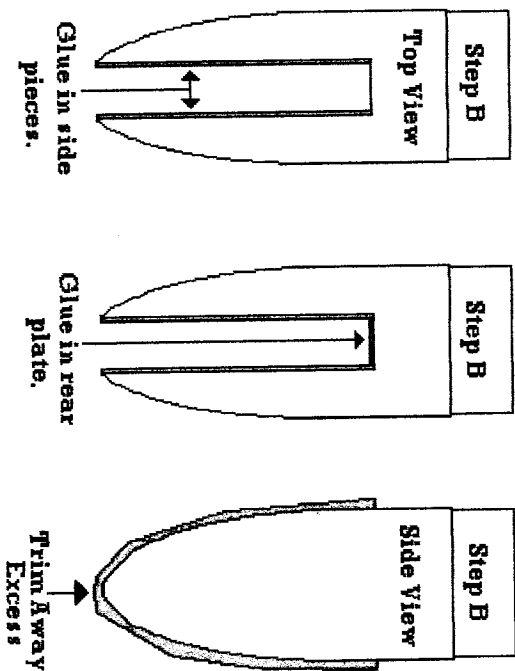


- I. Cut two pieces of dowel 5" long and cut one piece of dowel 3' long.
- B. Using the fin guide, assemble the main wings as shown.
- C. Using sandpaper, round the leading and trailing edges of the wings and fins.
- D. Attach the dowels to the wings and rudder as shown.

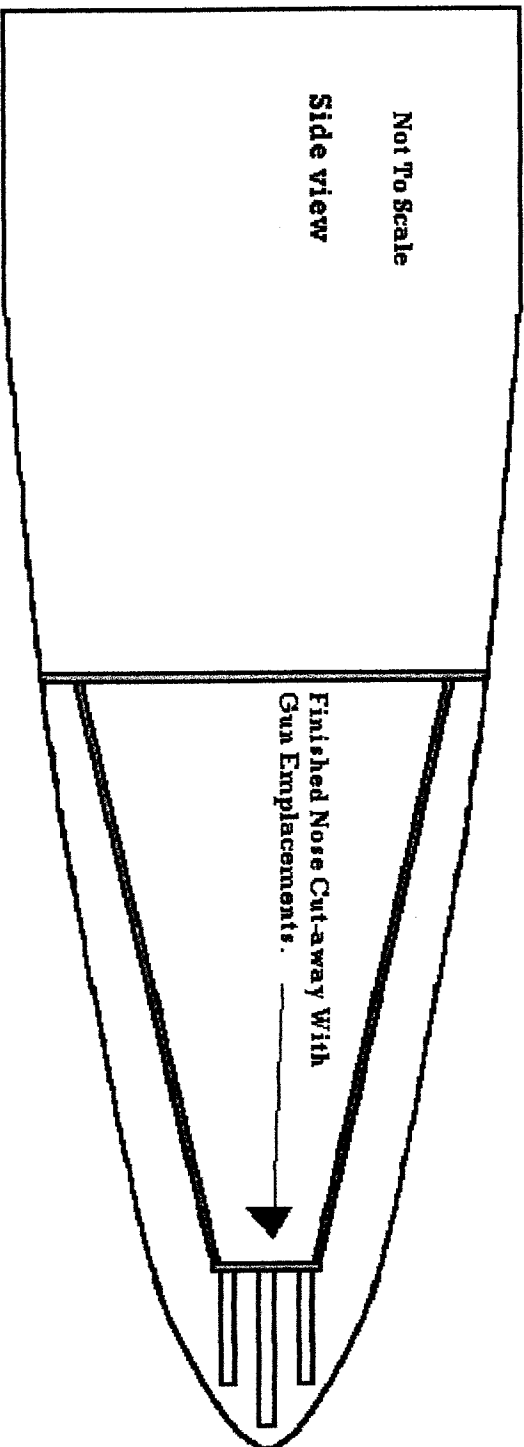
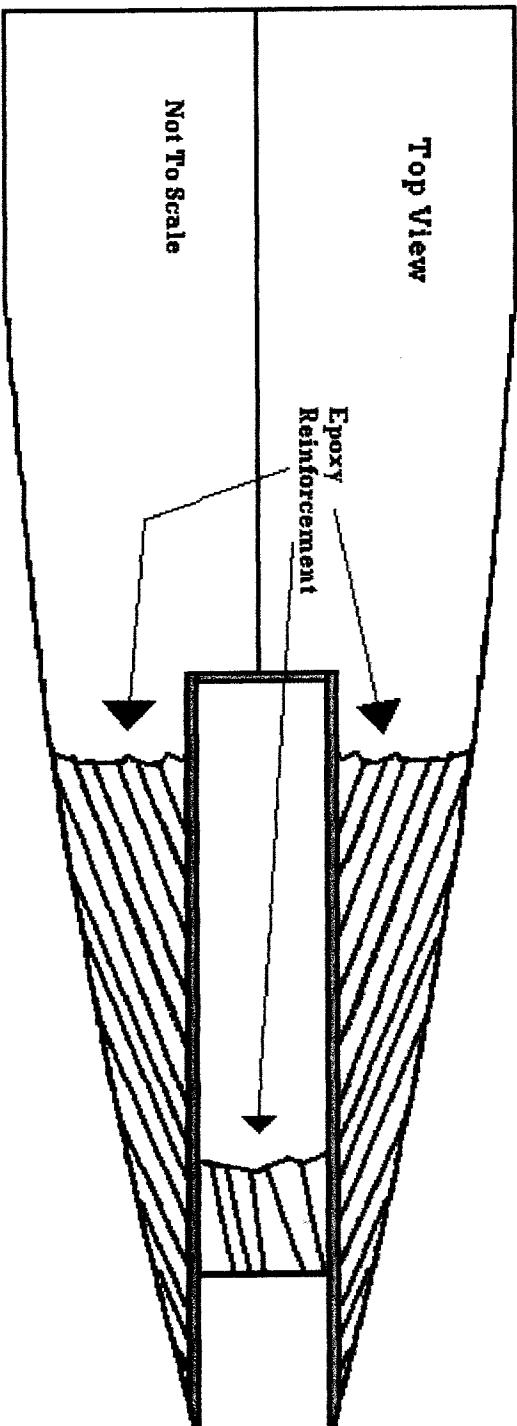


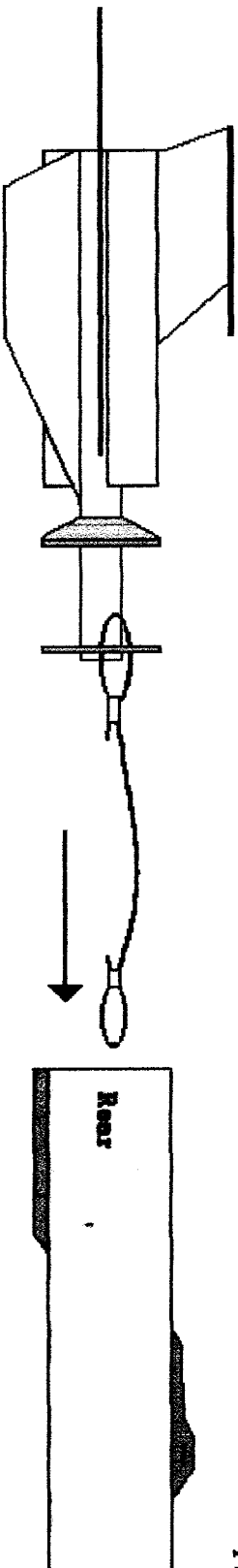
Nose Assembly

- I.A. From the sheet plastic stock, cut out the patterns indicated on the nose pattern sheet.
- B. Using plastic CA glue (Zap), glue in the two side plates. When set, glue in the rear plate. When set, dress off the excess as shown.
- C. Carefully trim and test fit the top and bottom internal plates. (NOTE: Use the provided diagrams on the back of this page for assistance.) When fitted, glue in the top and bottom plates.
- D. Trim and fit the front plate. When done, drill four 1/8" holes as shown on the pattern used to make the plate. Then glue the plate into place.
- E. Fill the front part of the nose with epoxy. (NOTE: This provides strength to the structure and helps move the center of gravity forward.)
- F. Prime and sand as desired. (Try to keep the holes in the nose free of paint.)
- G. After painting the final color on your model, cut four pieces of the 1/8" plastic tube to the lengths you desire. Paint these tubes black. When dry, install the tubes into the nose.



Nosecone Diagrams





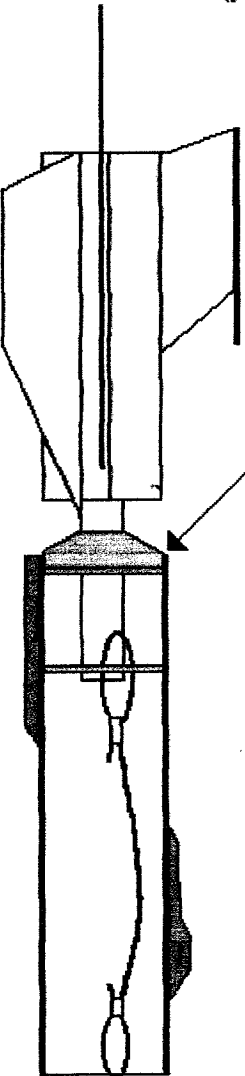
Final Assembly

1. Apply glue or epoxy to the inside of the rear of the main body tube.
2. Install the fin assembly into the main body tube (refer to the diagram below for assistance).

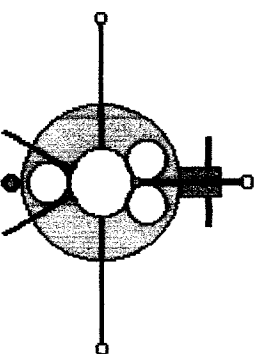
Final Step

1. Attach one end of the shock cord to the nose cone and the other end to the shock cord mount. Secure the parachute to the shock cord as close to the nosecone as possible. **NOTE:** Be sure to use flame resistant wadding when flying your model.
2. Use at least a five foot long rod when flying this model.

- Fins
- Motor Mount Tube
- Pod Tubes
- Plastic Transition
- Centering rings
- Con Power
- Main Body tube
- Launch Lug
- Copper Clips



Side View Cut-away



End View

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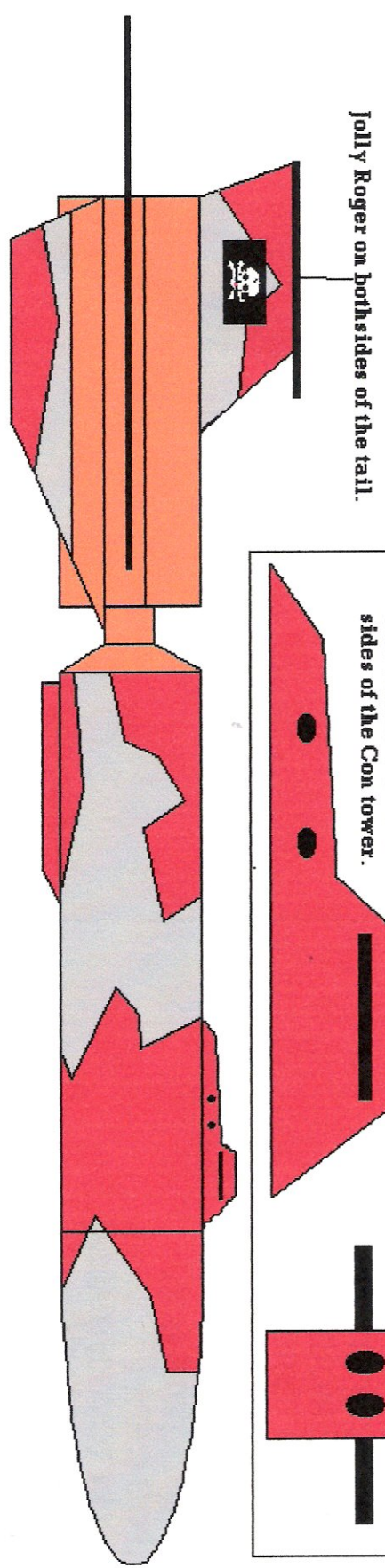
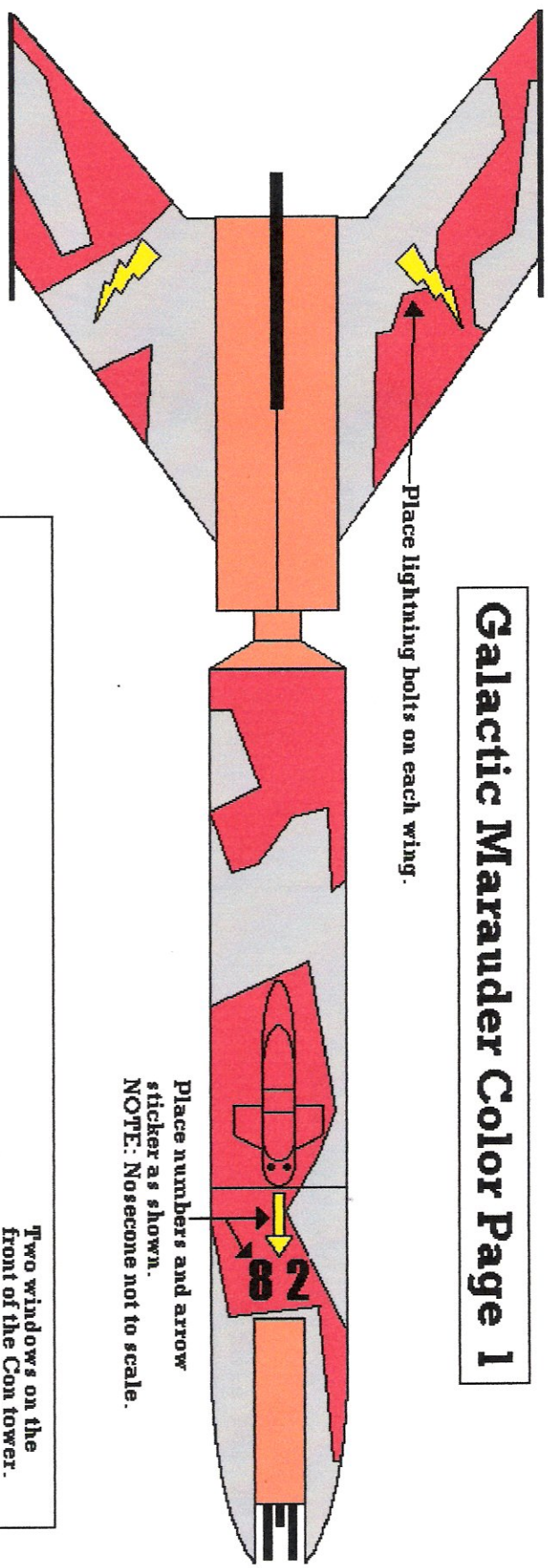
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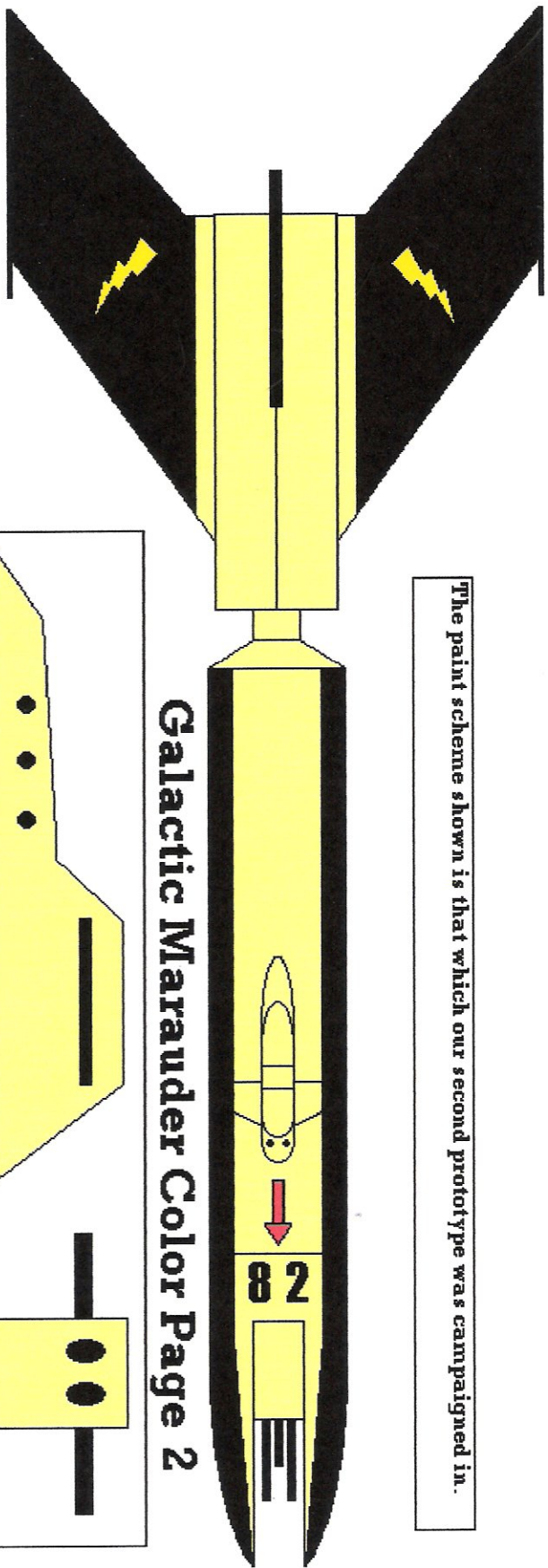


The paint scheme shown is that which our prototype was campaigned in. However, paint your model as desired.

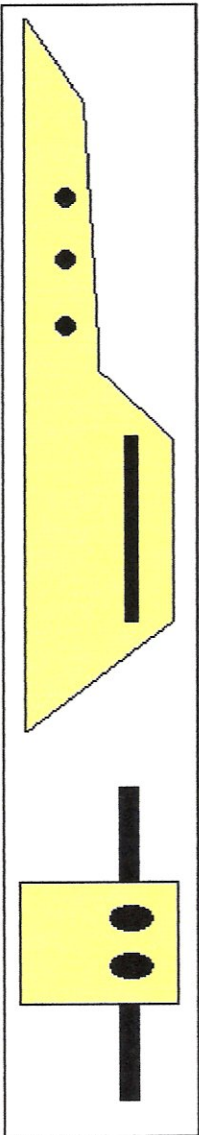
Galactic Marauder Color Page 1



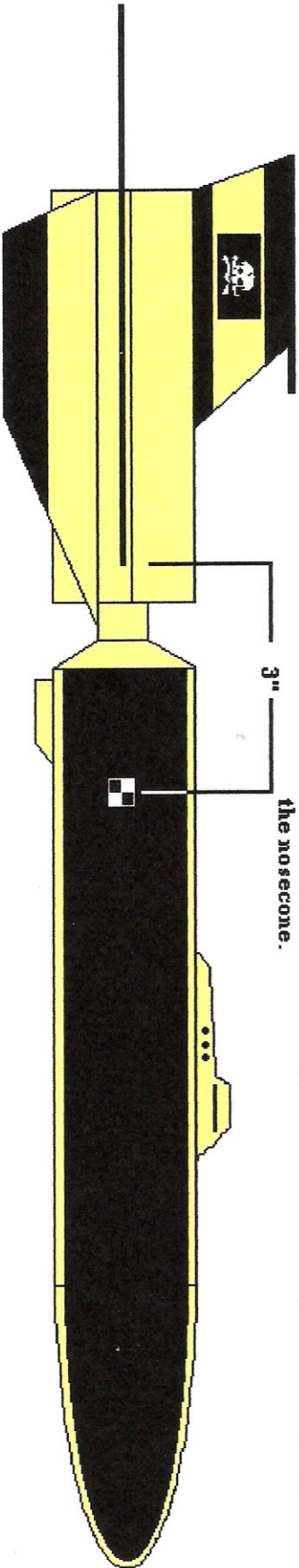
The paint scheme shown is that which our second prototype was campaigned in.



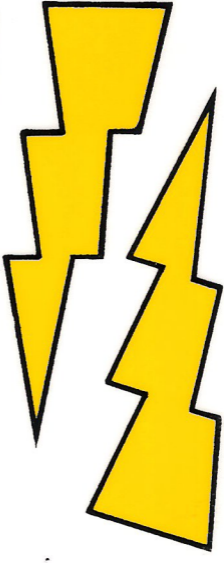
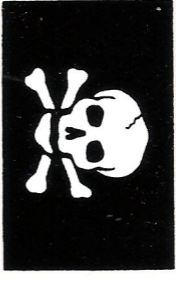
Galactic Marauder Color Page 2



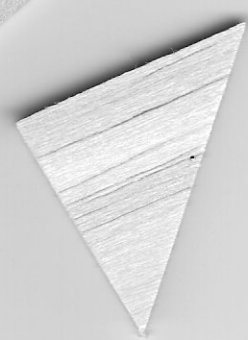
NOTE: The balance point of your model should be 3" or more ahead of the leading root edge of the main wings. With a D12-5 installed. If the balance point is less than 3", add more epoxy to the nosecone.



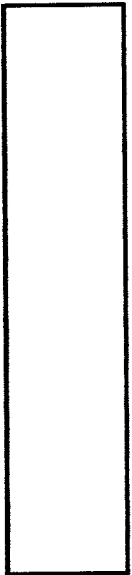
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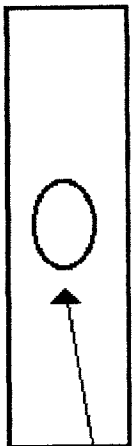
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Patterns For Plastic Sheet



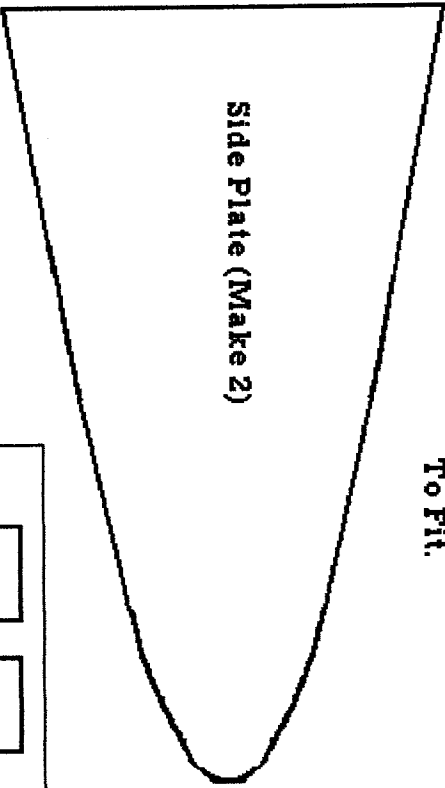
Internal Plate (Make 2)



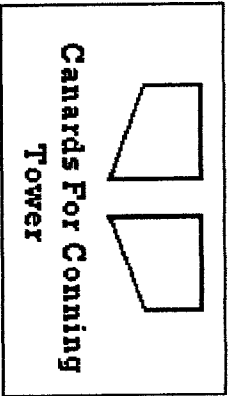
Back Plate

NOTE: Cut a hole in the back plate before installing it. This is so epoxy can be poured into the center section.

NOTE: All Nose Plates Will Have To Be Trimmed To Fit.



Side Plate (Make 2)



Canards For Conning Tower

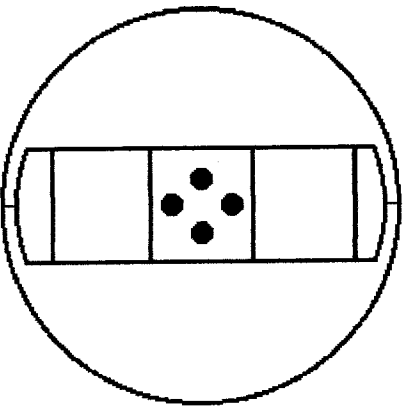
Front Plate →



Bottom

Top

NOTE: Place a piece of tape on the back side of the front plate after the holes are drilled. Once the nose is built, and the epoxy has set in the center section, you can deepen the holes in the nose.



Front View Of Finished Nose.