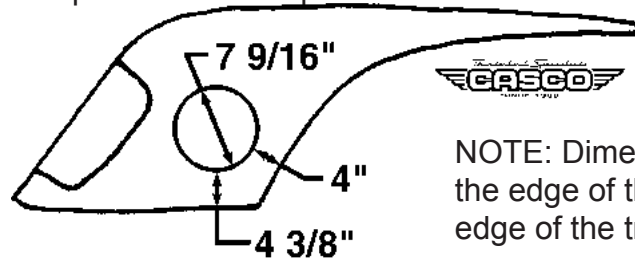




SUGGESTIONS FOR INSTALLING PORTHOLE RINGS INTO A NON PORTHOLE TOP

1. Putting holes into top

A. Hole diameter required is $7 \frac{9}{16}$ " positioned as shown below.

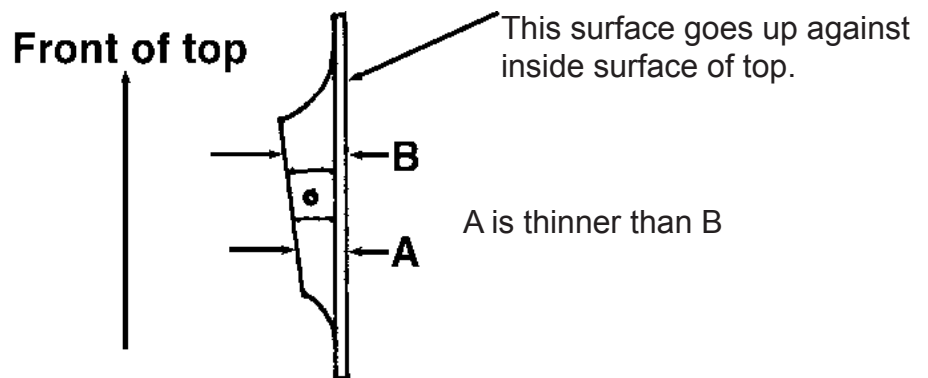


NOTE: Dimensions are made from the edge of the fiberglass - not the edge of the trim

B. Best method to put the hole into the top is to simply drill a small hole and use a router or saber saw to carefully follow around the circle drawn on the top. Masking tape on the top around the hole will protect the paint from being scratched by the router.

2. Installing spacers

A. Positioning. Spacers are placed on the inside of the top with the hole for the bow at the top and with the thinner section toward the rear as shown below.

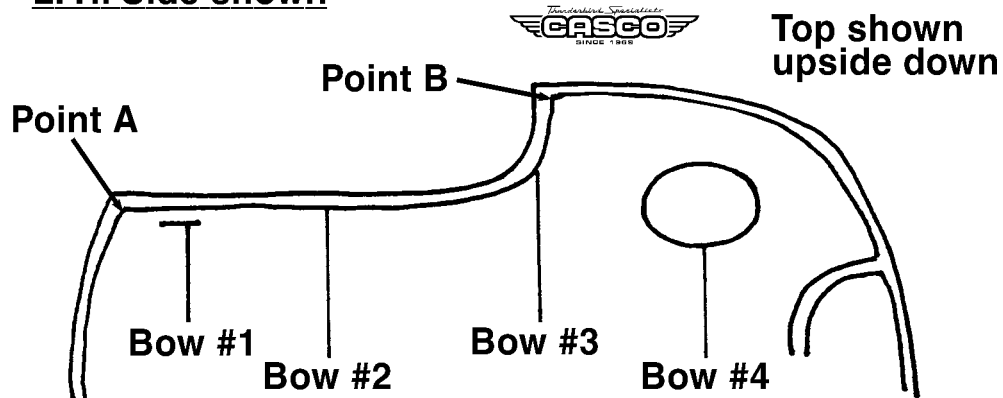


B. Attaching. Secure porthole spacer with resin. It is recommended that the surfaces to be mated be ground or sanded with course paper to roughen the surface. Glass cloth or mat may be added to strengthen if desired.

3. Position of bows

Porthole tops use 4 bow headliners. If the top is set up with 5 bows it will be necessary to modify the position of the bows. Correct bow positioning can be determined from the sketch and table below.

L. H. Side shown



<u>4 Bow</u>		<u>5 Bow (for reference)</u>	
<u>Bow #</u>	<u>Distance from "A"*</u>	<u>Bow #</u>	<u>Distance from "A"*</u>
1	Back of slot	1	Front of slot
2	15 1/2"	2	14 1/2"
3	24 13/16"	3	22 3/4"
4	Top of porthole spacer	4	31 1/2"
		5	4 3/4" from point "B"

* Distance measured along railing

On many tops there will be holes already positioned properly to convert the 5 bow to 4 bow configuration.

4. Modification of bows

Bow length is as follows:

<u>Bow #</u>	<u>Length</u>
1	49"
2	50 7/8"
3	61 1/2" (60 1/2" plus 1/2" dogleg to front)
4	53 1/4"

Bow #3 will have to be made from bow #4 or #5 from original set.

We hope that you will find these instructions helpful. If you have additional questions please do not hesitate to call CASCO'S Technical Assistance line (740) 622-9700.

