

# Grab Rail Kit #102193, 102424

## Assembly Instructions

### Kit Includes:

- Stainless Steel Tubing
- Thread
- Leather
- Stainless Steel Eye End & Sliding Side Mount

A grab rail is easy to assemble and contributes to greater safety on the water. This kit allows for a maximum handrail length of 30.5". Grab rails can be placed between two bows on the side of a dodger or bimini or parallel to a bow (forward or aft ends).



Finished Grab Rail

For rail placement between two bows, first determine where to mount the handrail (the distance from centerbow to centerbow must not exceed 30.5") and mark a dot on each metal bow. If there is currently fabric in this location, cut a small slit (about 1/4") in the fabric exactly where the mark(s) on the bow should be and mark the bow(s) through the slit(s). Make sure that the slit(s) and the mark(s) are centered on the round tubing of the bow. If there will be a rail on both sides of the frame, both sides of the frame must be marked and slit.

The frame must be taken apart to install the sliding side mounts. Most dodger frames are assembled and held in place with set screws. If the frame is welded together, a different kit will be needed (#102492 or #102493). Before disassembling the frame, mark the positions of the hardware to make it easy to reassemble (Figure 1).

Having removed the eye ends and jaw slides, the sliding posts can be slipped over the end of the bow and moved into position over the marks. For frames where the sliding side mounts do not go through fabric (a typical bimini), slide the sliding side mounts into position and put the frame back together (Figure 2 - shown without canvas top). Do not install or measure the grab rail without the canvas top in place as it affects proper sizing.



Figure 1



Figure 2

If the mounts will need to be installed through fabric (most dodgers), the material will need to be prepared. Prepare the fabric by sewing small squares of leather over the slits in the canvas. It is normal to place these patches on the outside of the canvas because they add strength and can protect the cover from chafe. Center the leather patches over the slits in the canvas and sew around the outer edge of the square with a straight stitch (Figure 3).

Enlarge the 1/4" slit to 1" keeping the original center point. Use a hot knife to prevent raveling if possible (Figure 4). Sew around the slit with a row of straight stitches. Once the leather patches are installed, the top can be put back in position on the boat.



Figure 3



Figure 4

Determine the exact length of tubing needed by measuring from the centers of the sliding side mounts (Figure 5). Cut the tubing 1 3/4" shorter than the measurement as the eye ends will add back 7/8" on each end of the tubing. Install the eye ends on the tubing and screw them to the sliding side mounts (Figure 6). Make sure the eye end is between the two nylon washers on the side mounts to isolate the rails and keep them from vibrating.

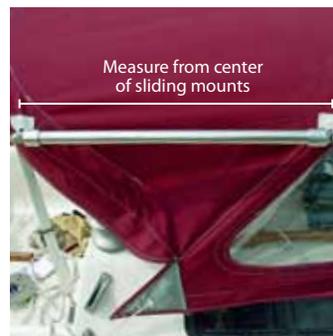


Figure 5



Figure 6

2390 East 100 South  
Columbia City, IN 46725

800.348.2769 (toll free)

260.244.4647 (local)

260.818.2005 (fax)

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