

# “Square-Rigger” Public Affairs Display

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The “Square-Rigger” is an eye-catching and versatile display that can be used in a wide variety of public affairs venues. It is simple to make and set-up, and provides two height configurations that allow its use in almost any setting. Figure 1 shows the “Square-Rigger” as used at the Neenah-Notaway Yacht Club’s annual Sail Expo. In this configuration it is twelve feet tall, can fly a four-foot banner as its “topsail” and a six-foot banner as its “mainsail”. In the photo the “mainsail” has pockets that hold boating safety and information pamphlets. The “mainsail” can also be a unit or VSC banner. There is a small block attached to the top of the mast that allows a flag or anchor light to be raised as well. The main yard can be replaced with the top yard to make an eight foot tall single-sail display for indoor settings with low ceilings.



Figure 1: The “Square Rigger” display.

The entire “Square-Rigger” display is made from PVC pipe and fittings, and is designed to be disassembled into four-foot segments that fit easily into an automobile trunk. The entire display weighs less than twenty pounds when fully assembled, and costs under \$100 to make.

The following materials are needed to make the “Square-Rigger” display:

- 1 10'x1½" PVC pipe
- 2 10'x2" PVC pipe
- 1 1½" 4-way connector
- 1 2" 4-way connector
- 3 2" T connectors
- 3 2" to 1½" adaptors
- 5 1½" end caps
- 4 2" end caps
- PVC cleaner and glue (for base, optional otherwise)
- Spray paint (plastic primer, brown, and black)
- 100'x¼" hemp or sisal rope
- Stakes or weights for ropes
- Pamphlet holder “mainsail” is made from standard hanging shoe rack that can be purchased at many discount stores.

Step One: Construct and glue the base.

Cut the following pieces of 2" PVC: 1x4'; 2x2'; 4x1'. Loosely fit the three T connectors and six pieces of PVC together following Figure 2. Take apart and glue one half as shown in Figure 3 (NOTE: the 4' “mast” element should NOT be glued in place). When dry, glue the other 1' pieces into the T connectors. The base is the only part of the “Square Rigger” that must be glued—the rest can be left unglued so that it can be disassembled.

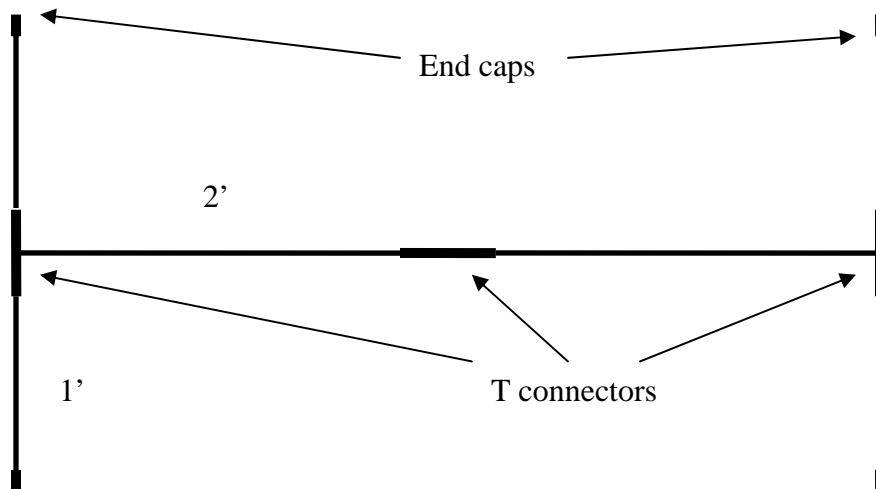


Figure 2: “Square Rigger” base construction diagram



Figure 3: Gluing the base.

#### Step Two: Cut the Mast and Yards

Cut the following pieces of 2" PVC: 1x4'; 2x2'

Cut the following pieces of 1½" PVC: 1x4'; 2x2'; 2x1'

#### Step Three: Paint the Mast and Yard Elements

First prime all the PVC pieces—paint will not adhere without priming.

Paint the lengths of PVC brown to simulate wood

Paint the connectors and caps black.

#### Step Four: Construct the Mast

Follow Figure 4 to put all the painted pieces together. Drill a hole just under the cap at the very top of the mast. Run the ¼" line through this hole. Loop the line around the top yards and tie both ends to the main yards just behind the adapter. This provides support for the yards. Construct this portion on the ground, and tie the “topsail” banner onto the top yard when finished. Raise this portion of the “Square-Rigger” and place it on top of the 4' base mast piece which, in turn should already be placed into the base. The mast will be stable this way. For more stability, use additional ¼' line wrapped around the top yard at the mast and stake to the ground.

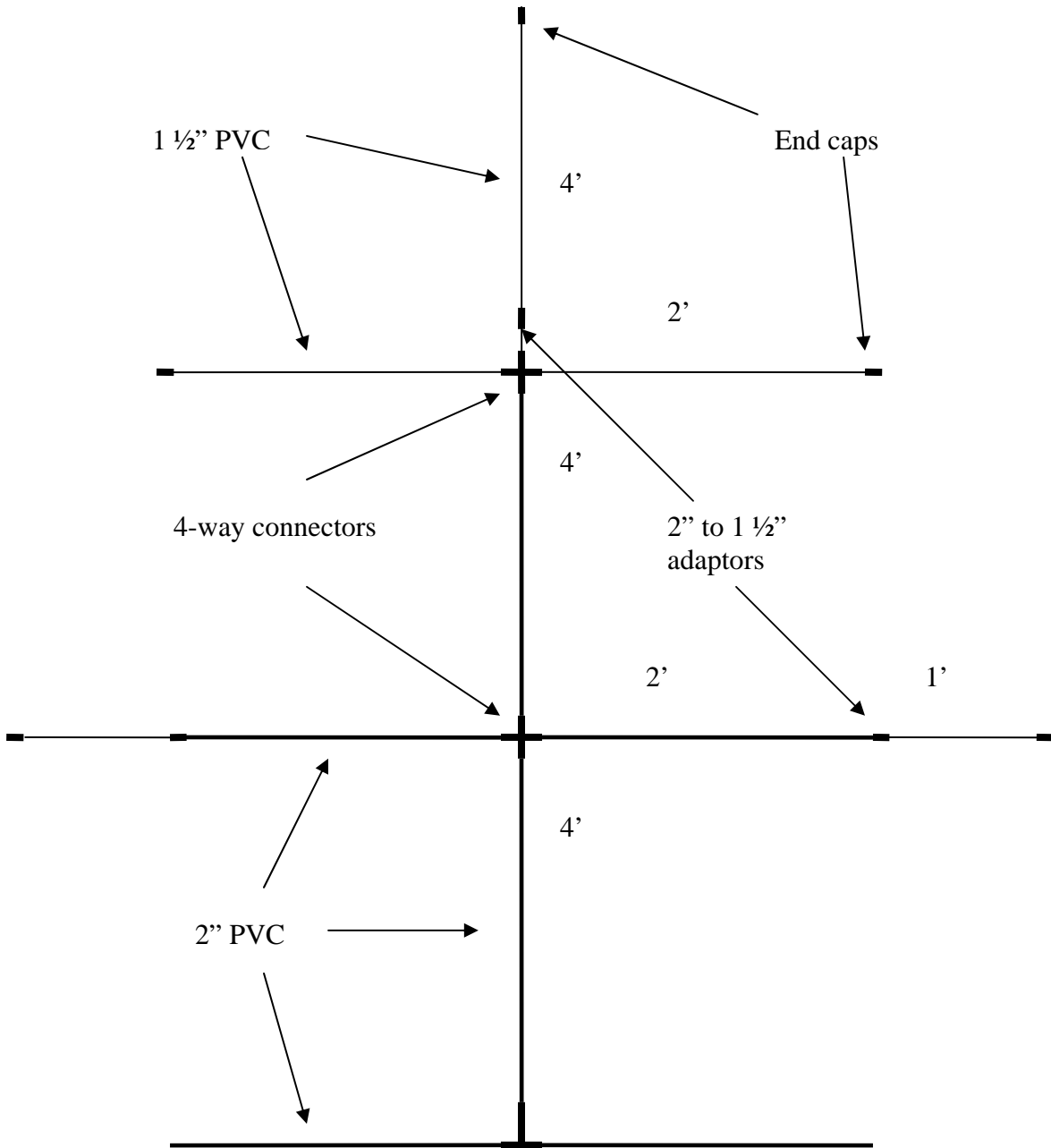


Figure 4: “Square Rigger” spar construction diagram