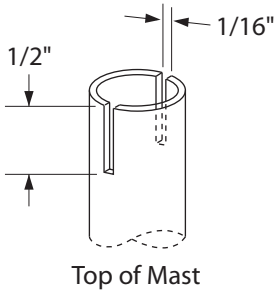
SECTION F Rigging your ODOM

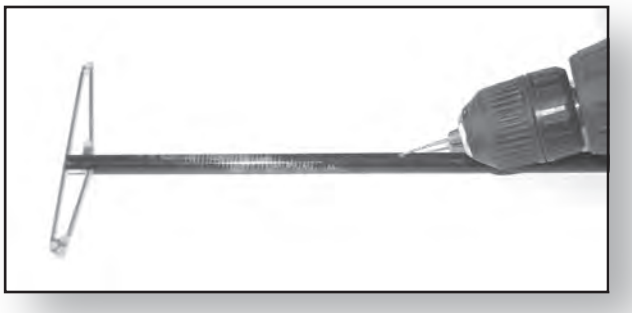
STEP 1 Prepare the Mast

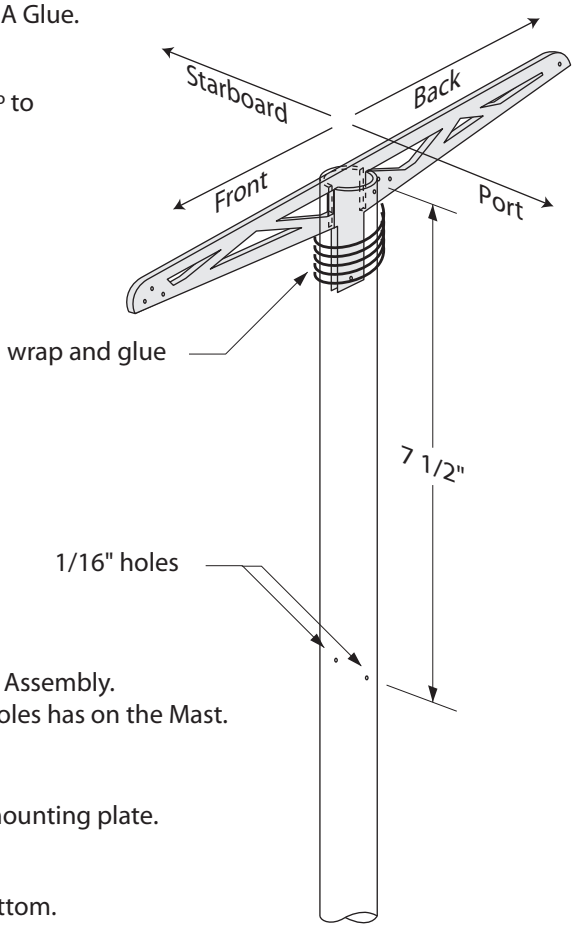


Your Mast should measure 56 1/2" in length.
If it is longer, trim excess off the top (small end of the Mast).
Cut a slot 1/16" wide by 1/2" deep through the top of the
Mast for the Masthead Crane. (A Dremel 1/16" x 1 1/4" cut-off disc works great)

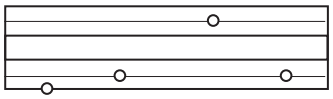
Insert Masthead Crane. DO NOT GLUE. The longer end is the back.
The Masthead Crane will protrude 1/8" above top of the Mast.
Reinforce the tip of the Mast by wrapping a piece of thread several
times around the Mast just under the Masthead Crane. Secure with CA Glue.

Drill one 1/16" diameter hole on both port and starboard sides of the
Mast 7 1/2" down from the top of the Mast (these holes should be 90° to
the slot). Then angle the holes toward the top of the Mast.
This is where the Shroud Wires will exit the Mast.





Drill four 5/64" diameter holes in mounting plate of Gooseneck/Vang Assembly.
Stagger the holes as shown to reduce the weakening effect drilling holes has on the Mast.



Gooseneck/Vang Assembly mounting plate.

Position Gooseneck on the back side of the Mast 1/4" up from the bottom.
Drill four 1/16" diameter pilot holes in Mast.

Blow dust and shavings out of the Mast.

STEP 2 Install Mast Step Pin and Gooseneck/Vang Assembly

Using CA GLue, install the stainless steel pin into the wood dowel portion of the Mast Step Pin. Insert the Mast Step Pin into the bottom of the Mast until the wood dowel is flush with the bottom of the Mast. DO NOT GLUE.

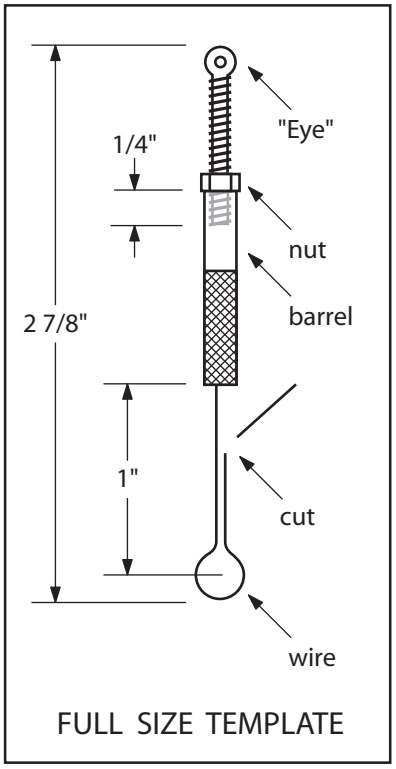
Attach the Gooseneck to the Mast with 4 small screws provided. The lower screws will hit the Mast Dowel. Drill two 1/16" diameter pilot holes into the Mast Step Pin.

STEP 3 Turnbuckles

Using wire loop pliers, bend turnbuckles as shown.
Start the bent approximately 1" down the length of the wire.
Trim excess wire.

Unscrew the "Eye" out of the barrel. Thread nut down until 1/4" of thread shows below the nut.

Screw "Eye" back into barrel until it stops against nut.
Total length should now be about 2 7/8", see Full Size Template.



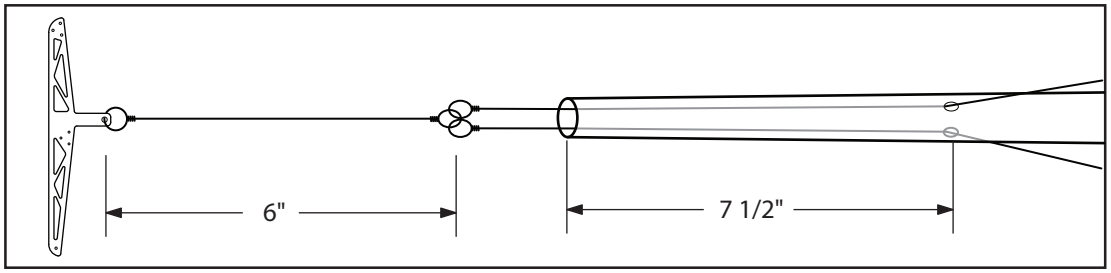
FULL SIZE TEMPLATE

STEP 4 Shrouds

Remove the Masthead Crane. Cut (1) 10" and (2) 60" lengths of Rigging Wire. Insert one end of each 60" Wire up into the shroud exit holes until they come out the top of the Mast. Using your Kwik Twist tool, that came in your Hardware Kit, form a small loop about 1" from the top end of each wire.
(See the Kwik Twist Tool instructions).

NOTE: For the rest of this manual, whenever you are to attach a wire with a loop and the Kwik Twist Tool, as you've done here, these instructions will say "attach with Kwik Twist".

Form a loop in one end of the 10" Wire and attach it to the bottom of the Mast Head Crane. Form another loop 6" down the wire and attach to both of the Shroud Wire loops. Finally, pull the Shrouds back out of the Mast until the Masthead Crane seats into the Mast. If the Shrouds end up too long or too short, or the Crane needs to be replaced in the future, simply replace the upper 6"wire and not each Shroud.

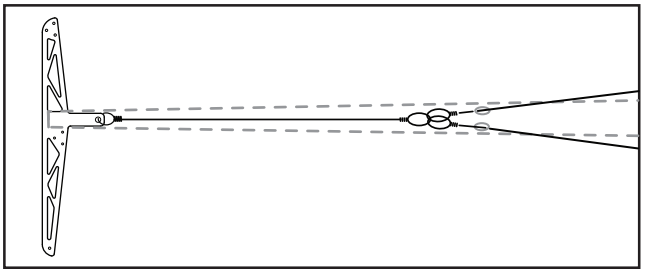


The next step is to get the final length of the Shrouds.

Put a small piece of masking tape on both sides of the Mast at the Gooseneck.

Make a mark on the tape 2 1/8" up from the bottom of the Mast.

Pull one Shroud Wire at a time down the length of the Mast and make a slight bend where the Shroud crosses the mark on the tape. Form a loop in each Shroud where the bend is and attach the Turnbuckles using the Kwik Twist Tool.



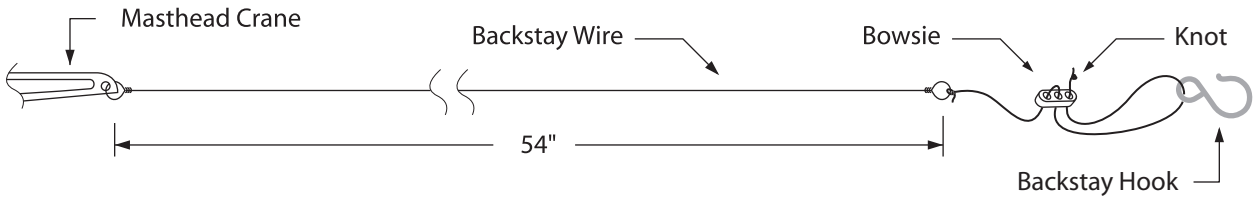
STEP 5 Backstay

Cut a 60" length of Rigging Wire for the backstay. Attach with Kwik Twist one end of wire to aft hole in Masthead Crane. Put another loop in the wire 54" down. Tie an 8" length of Large String to lower loop.

NOTE: Whenever you tie a string, you should either use a lighter to melt the ends of the string, or use CA Glue on the knot and end of string, to keep it from unraveling and to keep the knot from coming undone.

NOTE: You may wish to use a needle threader to pull the strings through the various holes during the remaining steps.

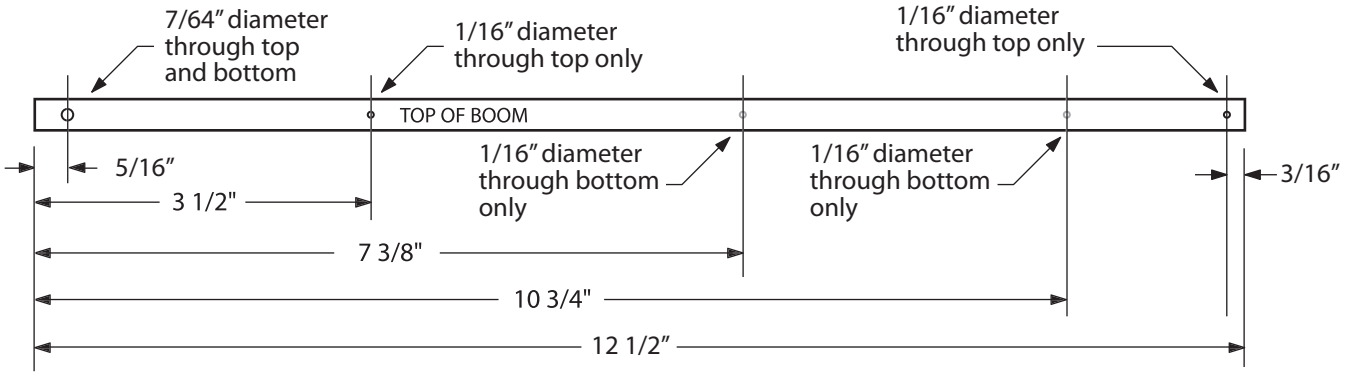
Thread the string through the two holes in the Bowsie, through the loop in the Backstay Hook, and back through the third hole in the Bowsie. Tie a large knot in the end of the string so it will not pull out of the Bowsie.



STEP 6 Prepare the Main Boom

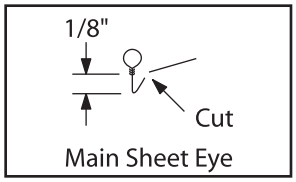
Cut a 12 1/2" length of the Boom Tube (5/16" dia. carbon fiber tube). Cut a 14 1/4" length for the Jib Club and set aside for now. Drill holes in Main Boom as shown.

NOTE: The only hole that goes all the way through the Boom is the 7/64" dia. hole.



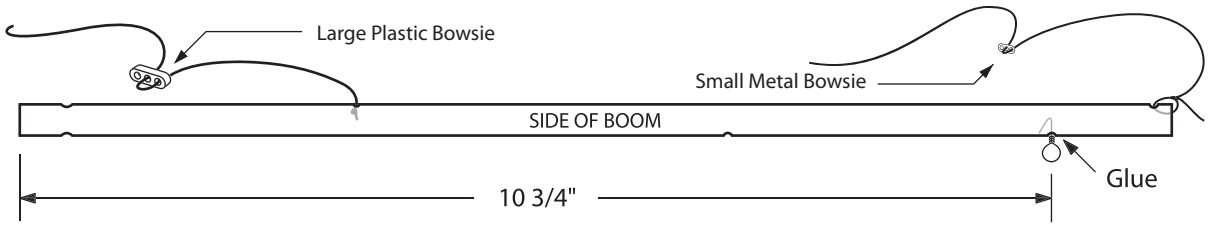
STEP 7 Main Sheet Eye, Downhaul and Outhaul

Main Sheet Eye: Form a Kwik Twist loop in one end of a small piece of Rigging Wire. Bend the wire at 1/8" away from twist. Trim off end as shown. Using needle nose pliers, push bent end up into 1/16" dia. hole in bottom of Boom. Glue with Thick CA Glue.

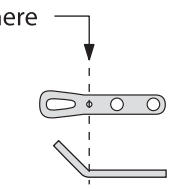


Downhaul: Cut an 8" - 10" length of Large String. Insert one end into 1/16" dia. hole in top of Boom, push string until it comes out end of Boom. Tie a large knot in end of string and pull back out of hole until knot jambs inside of Boom. Thread on a Large Plastic Bowsie through two holes only.

Outhaul: Cut a 6" - 8" length of Small String. Tie one end to end of Boom (through 1/16" dia. hole in top of Boom). Thread on a Small Metal Bowsie through two holes only.



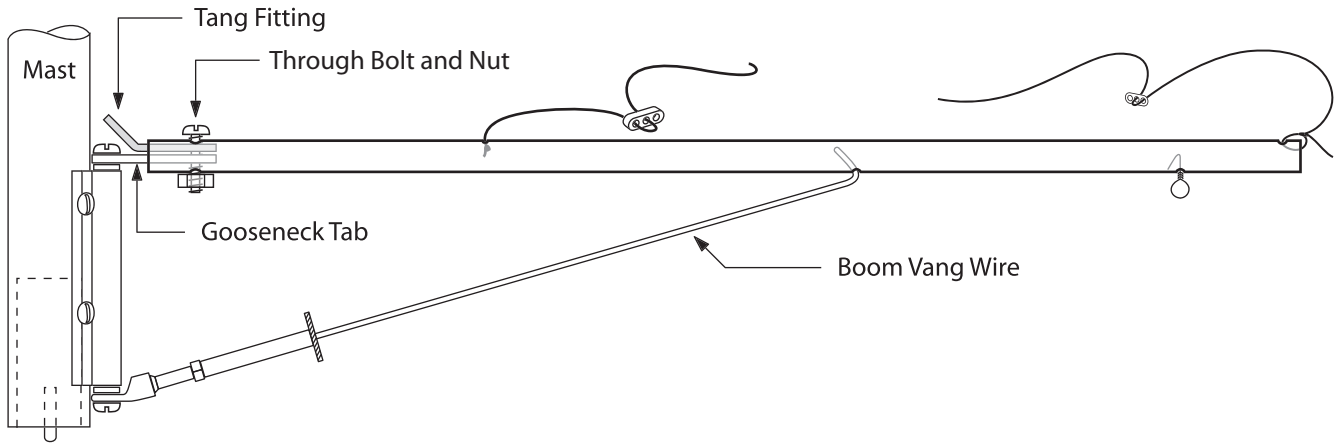
STEP 8 Install the Main Boom



Bend Tang Fitting at first hole up at an approximately 45° angle.

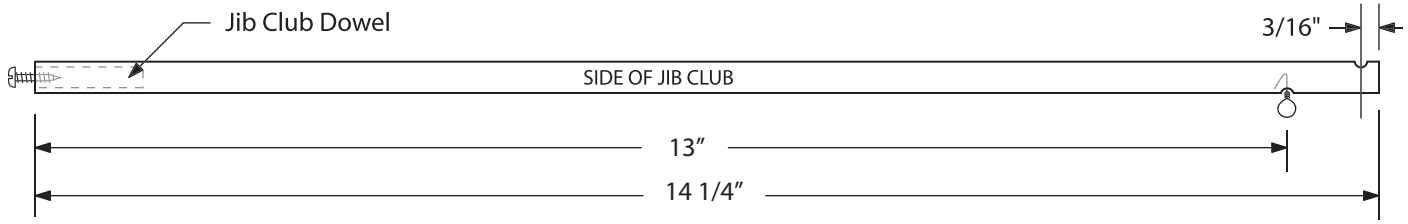
Unscrew Boom Vang to remove Vang Wire from Gooseneck. Push the hook in the end of the Boom Vang Wire up into the 1/16" dia. hole in bottom of Boom. Position Tang Fitting on top of the Gooseneck Tab. Slide Boom onto Gooseneck Tab and Tang Fitting and secure with bolt and nut.

NOTE: TIGHTEN NUT ONLY UNTIL SNUG. DO NOT COMPRESS THE BOOM TUBE WALL.
Cut off excess bolt length and add a drop or two of CA Glue to the nut to prevent the nut from coming off.
Re-attach Boom Vang Wire.



STEP 9 Jib Club

Drill two 1/16" dia. holes in the Jib Club. One on the top, one on the bottom. Make and Install a Jib Club Eye as you did the Main Sheet Eye. Drill a small pilot hole in the end of the Jib Club Dowel. Install 1/2" Pan Head Screw, leaving 1/4" of threads showing. Install if forward end of Jib Club using Thick CA Glue.



STEP 10 Jib Tack and Outhaul

Jib Outhaul: Cut a 10" - 12" length of Small String. Tie one end to end of Jib Club (through 1/16" dia. hole in top of Jib Club). Thread a Small Metal Bowsie through two holes only.

Jib Tack: Slide a Rubber Grommet onto the Jib Club 3" - 3 1/2" from the forward end. Tightly tie short length of line around the Grommet. The Grommet should not slip down the length of the Jib Club, but you should be able to move it to tune your ODOM rigging. Attach a Tackle Hook (same hook as used for the Backstay Hook) to other end of the line so the total length, including the Hook, is about 1".