

This kit has been developed to provide additional support to the middle and lower middle sections of the PT star mast.

The design revolves around a 40 mm x 1.6 mm tube (nominally 2.5m) although the length could be changed can, depending upon the luff round of the sail – see below.

The Kit

5 x poly spacer blocks

5 x spacer collars

5 x 3/16 mm Aluminium rivets

The location of the bottom of the tube should commence about 450mm from the bottom of the mast.

This position is just below the gooseneck and will support higher pressure being applied by the vang.

The tube will suite sails with fuller luff round such as earlier Redhead, Goodall etc and will end about 360mm above the lower hound, (the nominal tube is 2.5m long).

For sails that are much flatter – less luff round, such as the North and equivalent sails the tube could be extended by say 500 mm.

Assembly Instruction

Place the stiffener tube alongside the mast with the bottom of the tube 450mm from the base of the mast.

Mark the lower hound position on the tube. This will be the location of the second spacer.

There will be 1 spacer at the top of the tube, the second spacer at the lower hound position and the others spaced between the second spacer and the bottom of the tube. The spacers being is about 600mm apart. Mark these locations on the tube.

Fitting the spacers.

Fit the first collar to the end of the tube and the rivet the first spacer in place.

Slide the tube into the mast until the second location is at the bottom of the mast.

Slide the collar and spacer in position so it is held by the mast (part in the mast) and rivet in position.

Push the tube into the mast until the next mark is at the bottom of the mast. Again slide the collar and spacer into position and rivet.

Continue the process until all the collars and spacers are fitted.

Complete by pushing the tube up until it aligns with the 450mm from the base measurement.

If you are installing the stiffener in an existing mast, drill out all pop rivets below and including the lower hound.

If you are building a new mast, cut the mast to length, install the upper hound, parrot beak and cap. Drill the pop rivet holes for the lower hound but do not fit it or anything fitting below that point.

Notes

When fitting the collars and spacers, slip the collar **partly** into the mast and pop rivet it in place. The reason we do this is to ensure that the collars will be in line and hence easier to push into the mast section. Slide to the next position and repeat until you finish the bottom collar. You should have a measuring stick marked at 450mm to ensure that the stiffener is pushed into the position just below the gooseneck.

Drill through the lower hound holes in the mast, into the polly collar and stiffener tube

Using long 3/16 Stainless Steel or Monel pop rivet (not supplied) fit the lower hound in place

Refit the lower part of the mast or finish the new mast.

You may also consider drilling two holes through the lower spacer to enable you to pass a dynema loop through it to enable the withdrawal of the stiffener if required.

Caution

The current spacers require modification to fit the Mk3 mast as it is narrower at the web than the earlier versions.

Using a grinding wheel, remove about .5mm from the side of the spacer between the part that touches the web of the mast and 20mm in front of that corner (basically removing the rear corner)