

FITTING OUT A RACING BOOM

1

PREPARING TO FIT OUT A RACING BOOM



1
You need a long bench to put the supplied boom on, along with a tape measure, the fitting out kit and your fid



2
Boom race controls kit



3
The wire fid which is essential for fitting out the boom

STERN MAINSHEET PULLEY



1
You will be attaching the stern mainsheet pulley to the stern boom end fitting, which looks like this when supplied

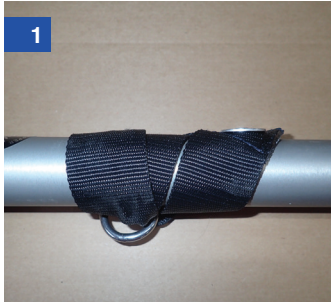


2
You need the pulley and shackle from the fitting out kit



3
Attach the pulley to the underside of the boom end fitting (the underside is the side the outhaul cleat is)

CENTRE MAINSHEET PULLEY



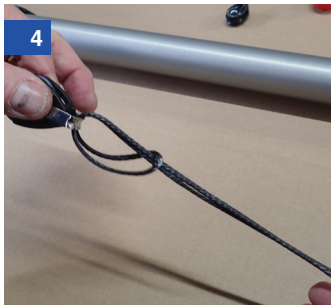
You will be attaching the centre mainsheet pulley to the webbing strapping with the metal ring for the kicking strap, which looks like this when supplied



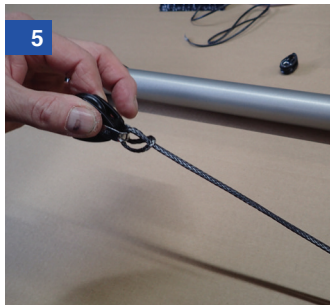
For this you need the mainsheet pulley and 30cm (11.8in) length of dyneema



Double up the dyneema and put the middle part through the metal loop on the pulley



Pass the two ends of the dyneema through the loop in the dyneema



Pull tight



Put the dyneema with the pulley under the boom at the webbing strap so each end of the dyneema is a different side of the boom



Using the fid, pull one end of the dyneema through the webbing strap



Repeat for the other end of the dyneema, the other side of the rivetted washer which is on the upper side of the boom



Pull tight so the pulley is held tight against the webbing strap and is on the underside of the boom (the same side as the outhaul cleat)



Tie the two ends of dyneema together with a reef knot



Making sure that the knot is tight against the rivetted washer under the strapping



Tie an overhand knot at the end of each loose end of dyneema



Then tie each in another overhand knot over the other end of dyneema



Pull tight

FORWARD OUTHAUL PULLEY



You will be attaching the forward outhaul pulley to the boom and the boom gooseneck fitting, which looks like this when supplied



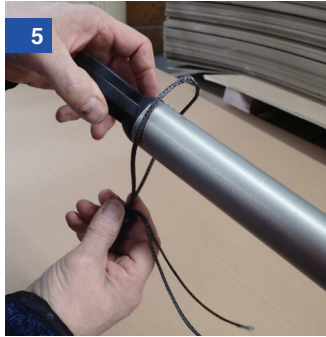
For this you will need the outhaul pulley and 52cm (20.5in) length of dyneema, which you double up



Using the fid, thread the middle part of the dyneema down through the hole in the top of the pulley, out to one side and then through the centre of the pulley



Then thread the middle part back up through the hole in the top of the pulley



Take the loop over the boom gooseneck fitting so it is around the boom with the loop nearer the gooseneck and the loose ends further away



About 10cm (4in) from the end of the boom by the gooseneck, start tightening the loop round the boom by pulling through the dyneema to extend the loose ends



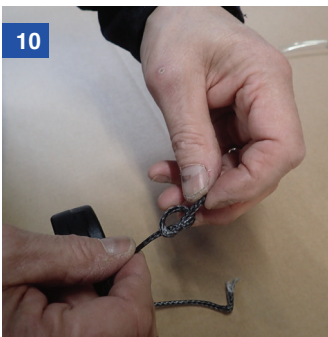
So the pulley is tight against the underside of the boom (same side as the outhaul cleat)



Using the fid, thread the loose ends of the dyneema through the loop around the boom



Thread these through the holes in the gooseneck, going from the underside of the boom to the topside



As before, tie an overhand knot at the end of each loose end of dyneema



And then tie each in another overhand knot over the other end of dyneema and pull tight



Pull the pulley along the boom away from the gooseneck – it should be 10cm (4in) from the gooseneck

REAR OUTHAUL PULLEY



For this you will need the pulley already attached to a length of dyneema



The dyneema is spliced onto the pulley and has a split tail – the tail is 25cm (9.8in)



Using the fid, thread the dyneema tails through the inner bottom hole in the boom end fitting – next to where you have already attached the stern mainsheet pulley



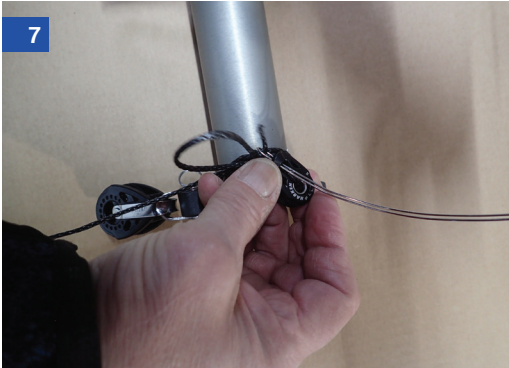
Now thread the tails through the inner upper hole in the boom end fitting



Pass the dyneema tails through the loop by the rear outhaul pulley



Pull tight



Now thread one of the dyneema tails through the hole in the top of the pulley and out one side



Pull tight



Then thread the same tail through the hole in the centre of the pulley



Pull the other dyneema tail through the hole in the top of the pulley and out the opposite side to the other tail, meaning that they are now both on the same side of the pulley

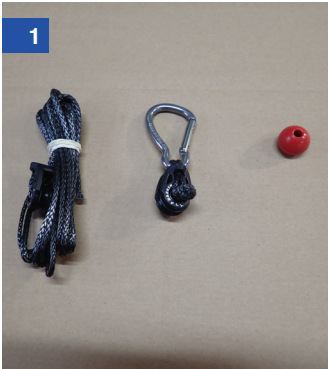


Now tie both dyneema ends together with a reef knot



Finishing off with an overhand knot on each dyneema tail, with the knot as close to the reef knot as possible

SAIL OUTHAUL PULLEY



The next pulley to fit is the sail outhaul pulley and for this, you need these 3 items from the kit



Take the loose end of the dyneema



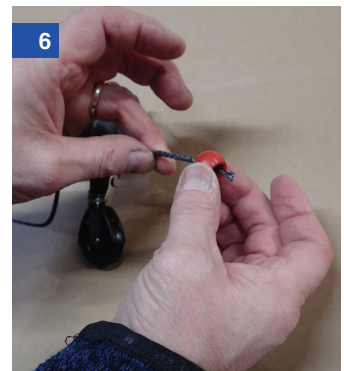
Pass it through the rear outhaul pulley you have just fitted



Then pass the end through the new pulley with the karabiner attached



Finally, thread the end through the outside upper hole in the boom end fitting



Thread the bobble onto the end of this rope



Tie a double overhand knot at the end of the tail

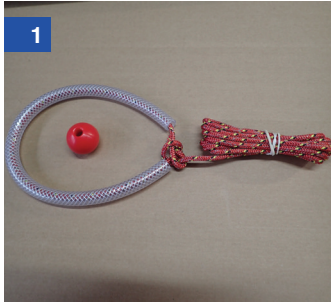


And pull the bobble against this knot

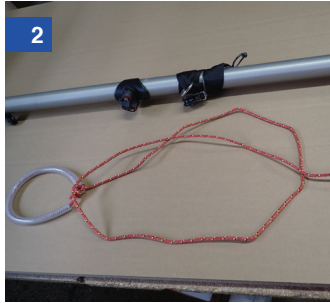


The sail outhaul pulley is now fitted

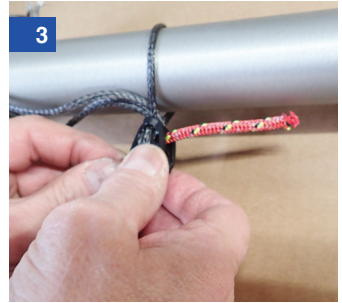
OUTHAUL CONTROL LINE & PULLEY



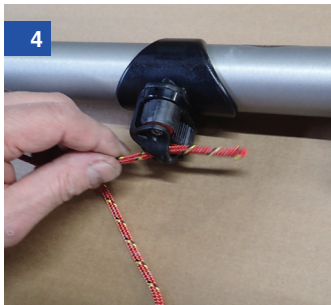
For this you need the red outhaul control rope with a rope handle covered by a plastic tube and a bobble



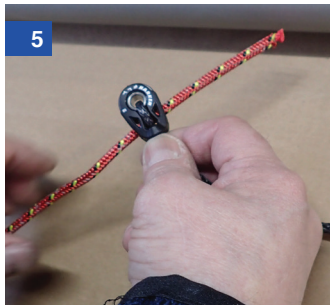
Unravel the outhaul control rope



And thread the loose end through the forward outhaul pulley you fitted earlier (attached to the gooseneck) in the direction away from the gooseneck



Thread it through the outhaul cleat on the underside of the boom



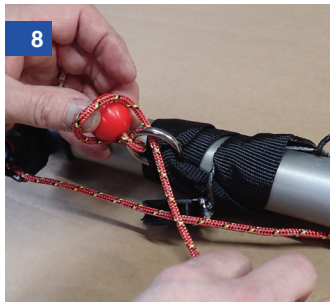
Then through the pulley at the end of the dyneema which has passed through the rear outhaul pulley



Fit the bobble on the end as you did before



Make a loop in the rope near the bobble and feed it through the metal kicking strap ring attached to the webbing



Pass the bobble through this loop

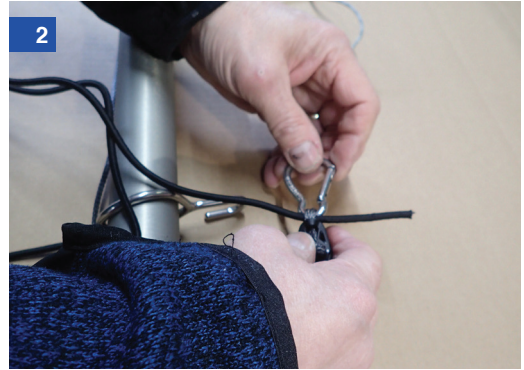


Then tighten to secure the end of the red line

OUTHAUL SHOCKCORD



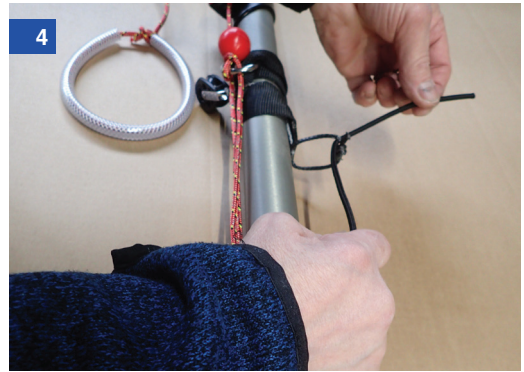
Go back to the sail outhaul pulley with the karabiner attached



Thread the black shockcord through the rope loop attaching the pulley to the karabiner



Tie an overhand stopping knot on the end of the shockcord



Take the other end of the shockcord through the dyneema loop you made earlier when fitting the centre mainsheet pulley to the webbing strap

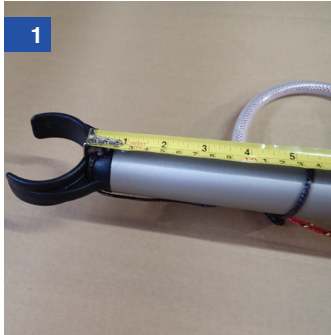


Tie an overhand knot at the end of the shockcord

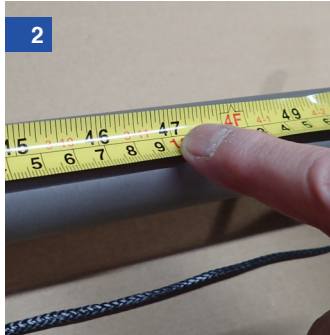


Then another overhand knot around the shockcord the other side of the dyneema loop to secure it

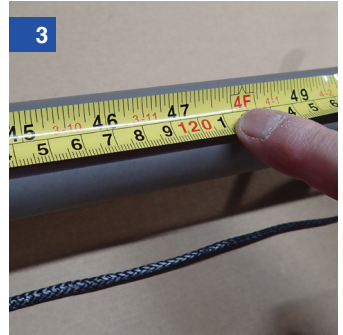
FITTING THE MYLAR STRAP



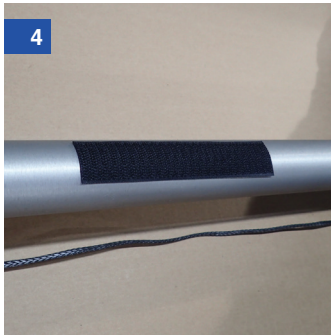
Measuring from the gooseneck,



Mark between 119cm ...



And 121cm, as this is where the forward end of the mylar strap should be positioned



Apply the stick-on velcro patch in this position



Attach one end of the mylar strap to it



And then wrap the mylar strap around the boom



The grey outhaul line (below the boom) passes through the mylar strap, but the black outhaul shockcord does not