RS aero

Over Deck Control Lines V2

- Downhaul control line
- Outhaul control line
- Downhaul takeup elastic
- 3 x 30mm block
- Traveller line (may have pre-spliced loop)
- 2 x Side deck strops
- 2 x Ronstan Shocks - (grey)
- 2 x Ronstan Shocks - (blue)
- Block lashing

RS **aero**   **1a - Tools Required**

- Dyneema scissors
- Push Fid
- Pull fid (wire type or needle type)
- Whipping twine
- Sailmakers needle
- Cigarette lighter

a)

Cut the outhaul and downhaul control lines and remove the control lines and elastic takeups.

Cut and remove

Cut and remove
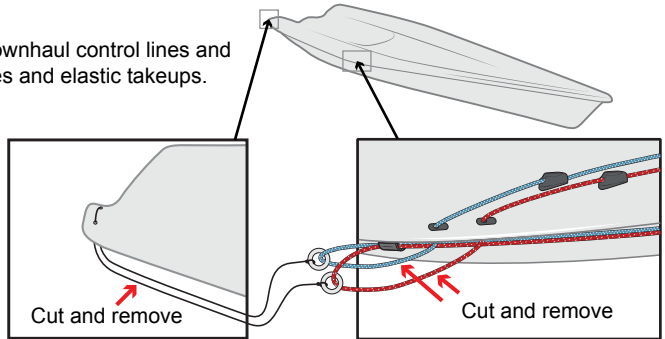
b)

Locate the two side deck strops and the four Ronstan Shocks in the pack.
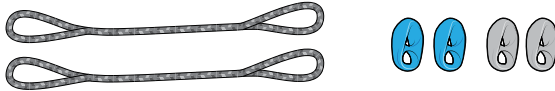
c)

Cow hitch one of the grey Ronstan Shocks onto the loop at one end of the strop.
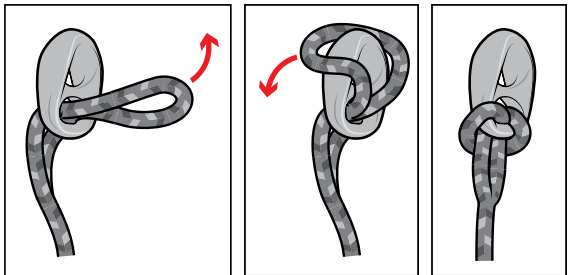
d)

Pass the loop at the other end down through the front hole in the starboard gunwhale and back up through the aft hole.
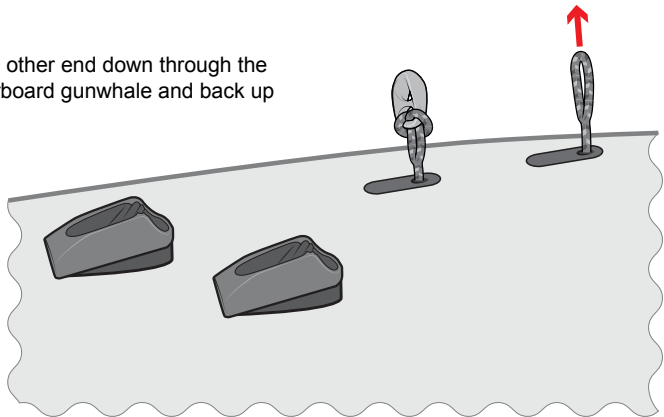
e)

Cow hitch a blue Ronstan Shock onto the aft loop.
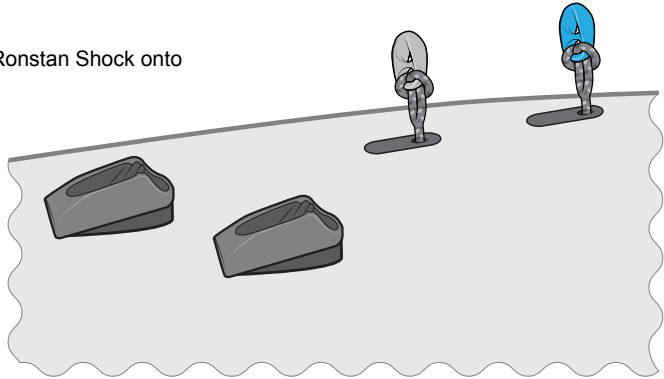
f)

Repeat on the other side of the boat.

RS aero **3 - Changing the Traveller Line**

a)

Remove the old mainsheet traveller line.

b)

Locate the traveller line (may have spliced end), block lashing and 2 x 30mm blocks in the pack.

c)

Lash the two knots together through the traveller bulls eye (as tight to the bulls eye as possible)

knot-on-knot   knot-on-knot

d)

Tie a stopper knot in one end of the traveller line. If the line has a spliced end you should still tie a stopper knot and ignore the splice. Pass the traveller line through one bullseye, through the bottom block of the sisterblocks on the mainsheet purchase, then through the other bullseye.

Set the traveller height (100mm in the centre is recommended) and tie a stopper knot in the tail.

100mm

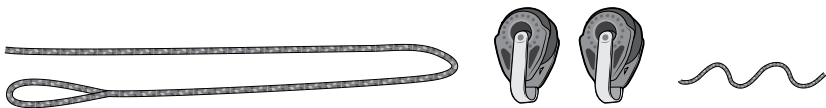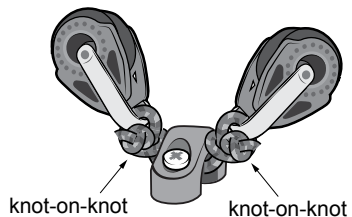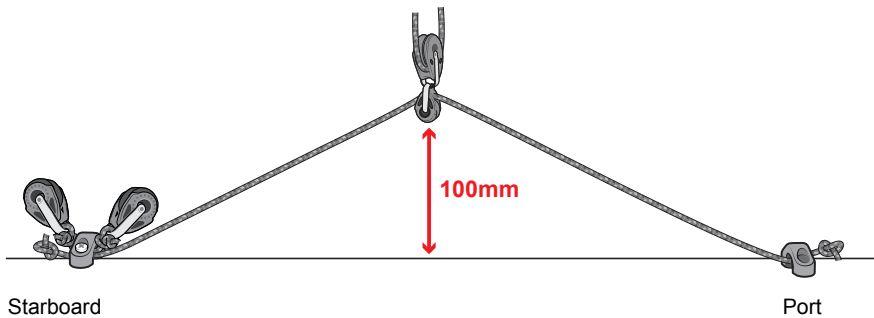Starboard   Port

RS aero **4 - Outhaul Control Line**

a)

Take the new outhaul control line from the kit.

b)

Pass one end of the outhaul control line through the forward block on the starboard gunwhale.
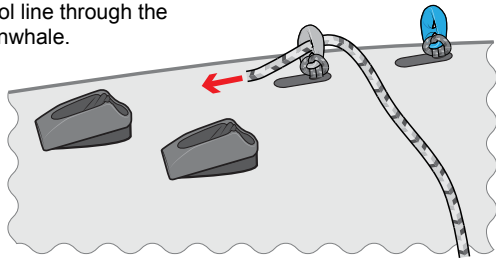
Note:
After doing this modification the control line positions on the gunwhale will be reversed (ie the outhaul will now go through the forward cleat and the downhaul through the aft cleat.

c)

Pass the end through the forward cleat
on the starboard gunwhale.
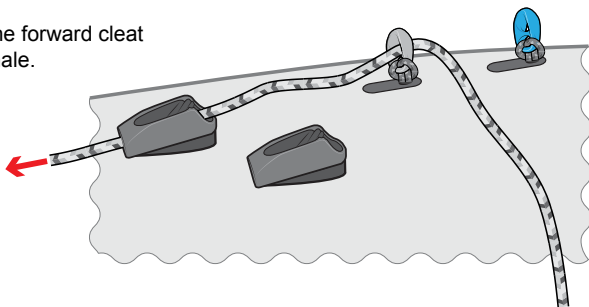
d)

Pass the end through the front block on
the port organiser by the mast step.

e)

Pass the end through the outhaul block
at the gooseneck.

f)

Pass the end back down to the mast step and
through the aft block on the port organiser.

g)

Pass the tail through the front cleat on the port gunwhale.
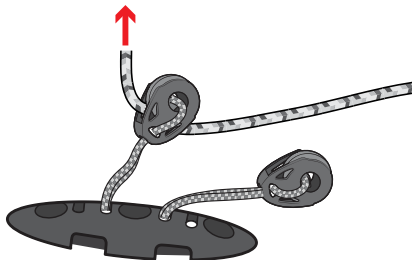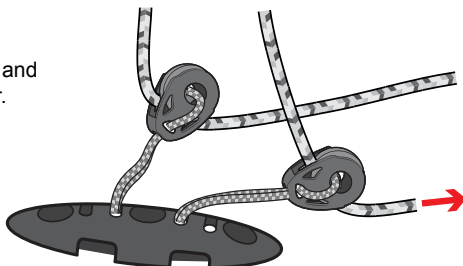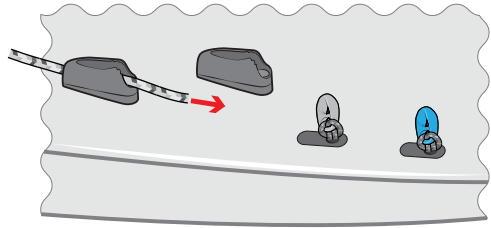
h)

Pass the end through the grey (front) Ronstan Shock on the port gunwhale.
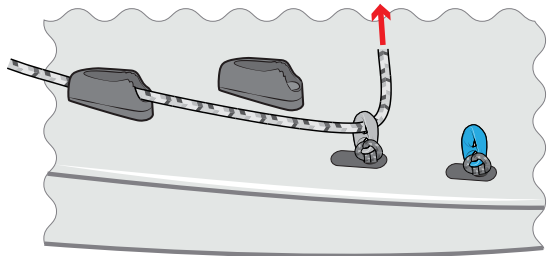
i)

The two ends of the outhaul control line must now be spliced together. See **section 7** for how to do this.
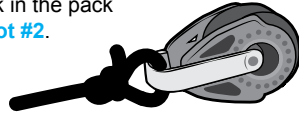
⚠ Make sure that the outhaul is set to the 'maximum off' position before you cut the rope to length.

This rope will now sit across the boat in front of the daggerboard and beneath the daggerboard elastic.
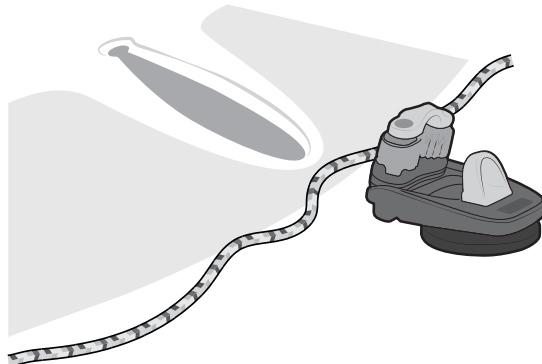
a)

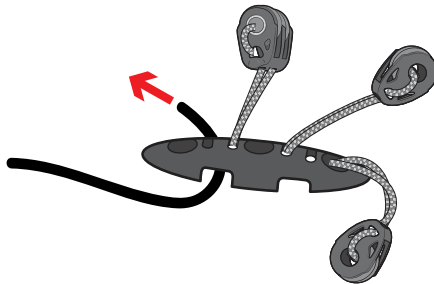Locate the downhaul takeup elastic and 30mm block in the pack and tie the block onto one end of the elastic with **knot #2**.

b)

Pass the other end through the bullseye at the bow (from starboard to port).
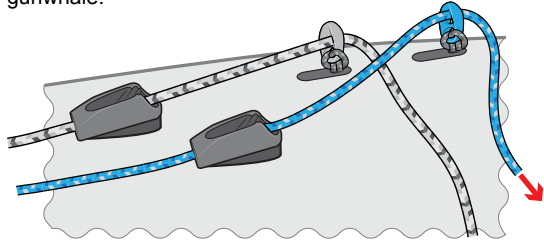
c)

Take the end aft and pass it underneath the organiser on the starboard side of the mast step.

d)

Tie it off with a stopper knot. You may want to adjust this once the downhaul control line is added.

a)

Locate the new downhaul control line in the pack.

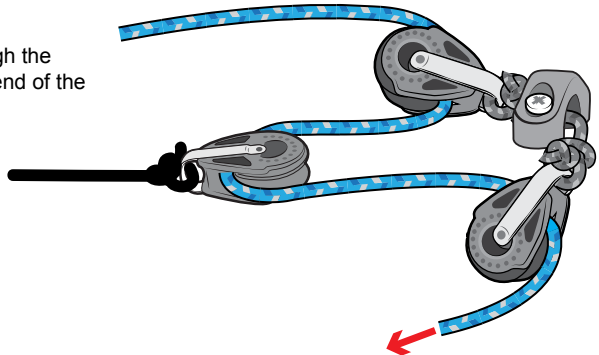Pass one end backwards through the cleat and the aft (blue) Ronstan Shock on the starboard gunwhale.

b)

Pass the end through one of the 30mm blocks on the end of the traveller line.
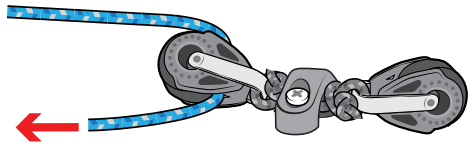
c)

Pass the tail forward through the block on the takeup elastic (added in **section 5**).
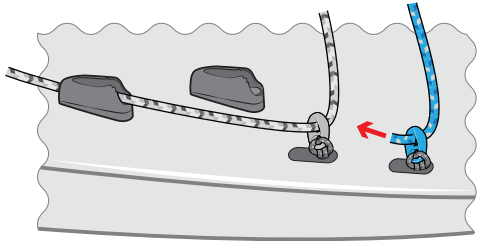
d)

Pass the tail aft and through the other 30mm block on the end of the traveller line.
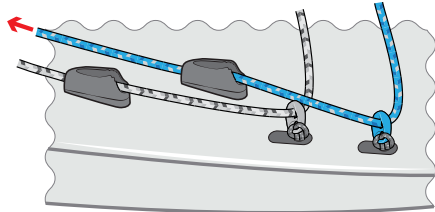
e)

Pass the end across the boat and through the aft (blue) Ronstan Shock on the port gunwhale.
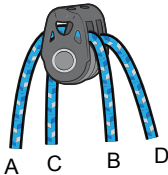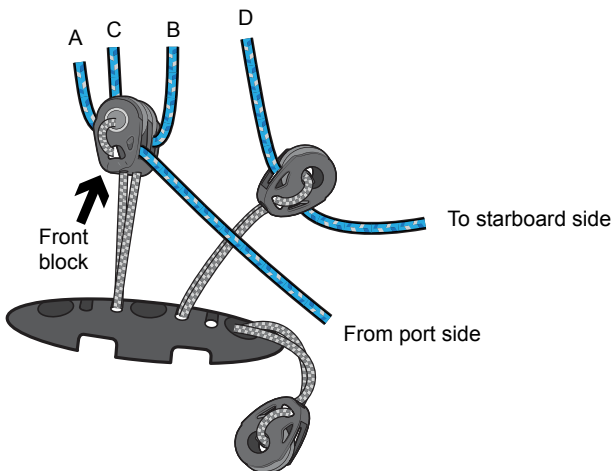
f)

Pass the end through the aft cleat on the port gunwhale.

g)

Pass the end forward to the front (double) block on the starboard organiser by the mast step and rig the downhaul purchase as shown.

A   C   B   D

A   C   B   D

Front block

To starboard side

From port side

h)

Pass the end back towards the cleat on the starboard gunwhale then splice the two ends of the downhaul control line together (as described in **section 7**).
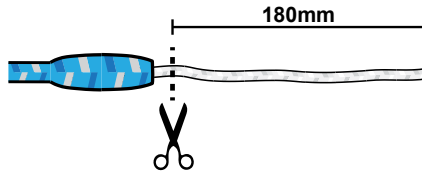

i)

Adjust the amount of tension in the system if necessary by tightening or loosening the takeup elastic.
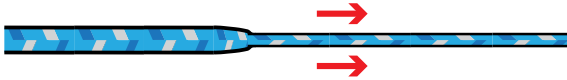
a)

Pull back the outer part of the control line to reveal the inner core.

b)

Cut away 180mm of the inner core on each end of the control line.

180mm

c)

Pull the outer part of the rope back. This will leave a thin section at each end of the rope and will mean that once they are joined the splice will still be able to pass freely through the blocks.

d)

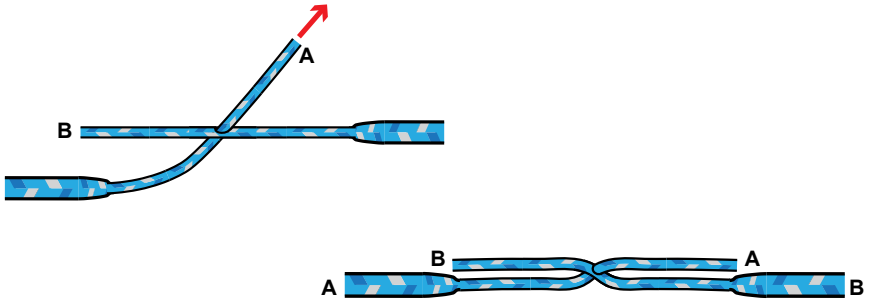Find and mark the mid point of the thin section of rope at each end.
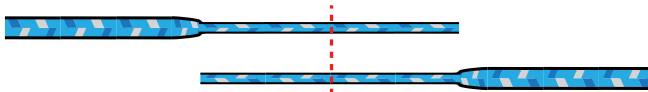
e)

Load one end of the control line (now labelled **A**) into the push fid and push it through the other end (**B**) at the mid point which you marked in **step d**).
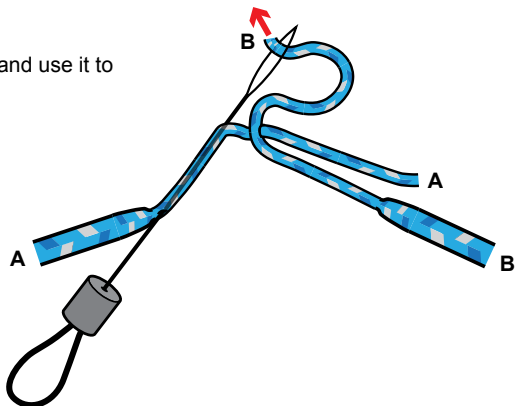
B

A
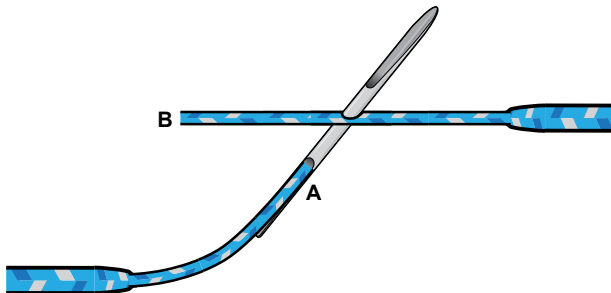
f)

Pull end **A** through until both sides are even.

g)

Take your pull fid and push it into rope **A** at the point where the inner core ends.

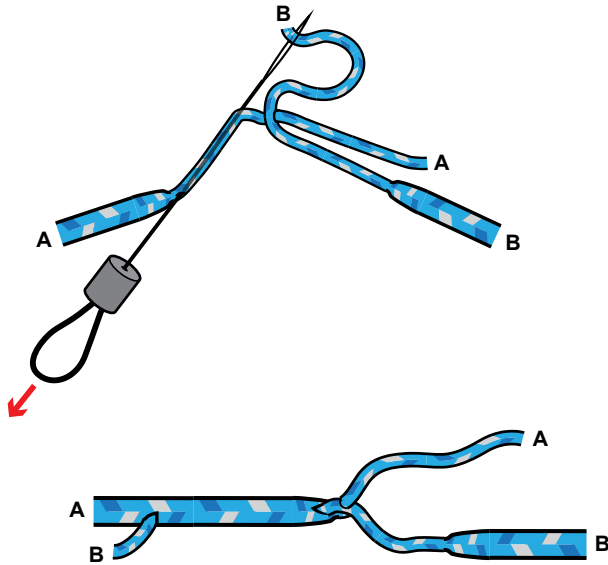Push it through the rope towards the intersection with rope B, then exit tight to the point where the ropes cross.
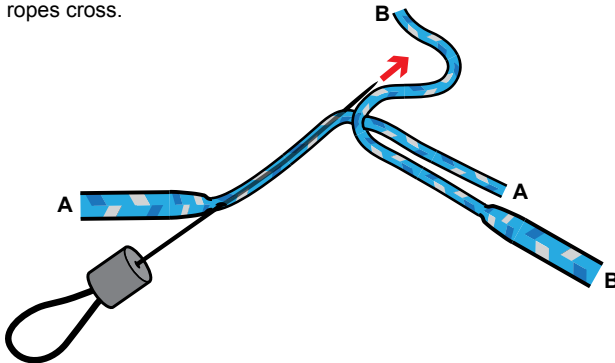
h)

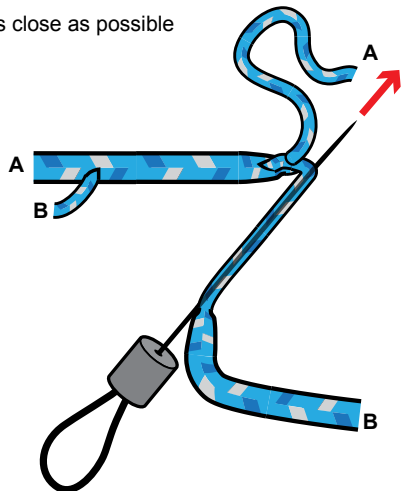Open the end of the pull fid and use it to catch the end of rope **B**.

i)

Pull the end of rope **B** inside rope **A** with the pull fid.
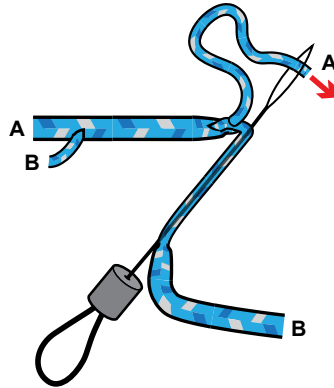
j)

Take the pull fid and insert it into rope **B** at the point where the inner core ends.

Push it through the rope and exit the rope as close as possible to the join with rope **A**.
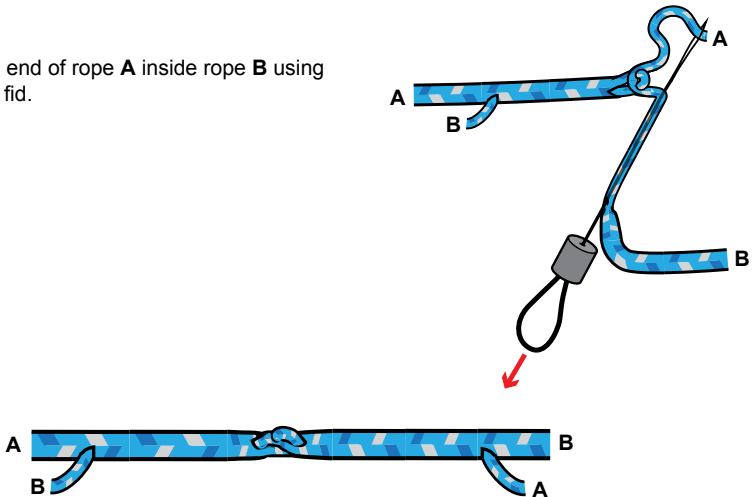
k)

Open the end of the pull fid and use it to catch the end of rope **A**.

l)

Pull the end of rope **A** inside rope **B** using the pull fid.

m)

Cut away any excess and seal the ends with a lighter.

You must now add a whip mid way along each side of the splice to prevent slipping. See **Section 7a** for how to add the whip.

a)

b)

c)

x8

d)

e)

f)

Once you have added the whip:

• Cut the tails.

• Melt the wax and seal the tails with a lighter.

• Repeat on the other side of the splice.