

# *RS* aero




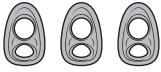





Over Deck Control Lines V3






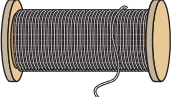


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**RS aéro** 1 - Pack Contents

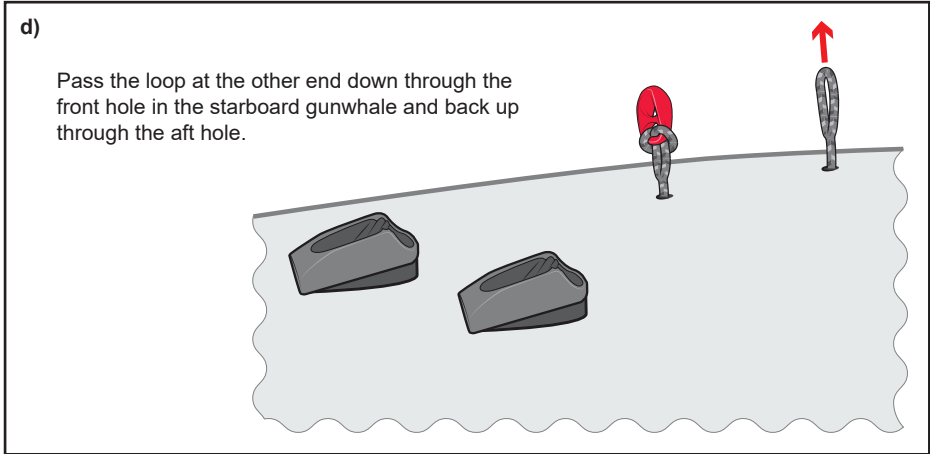
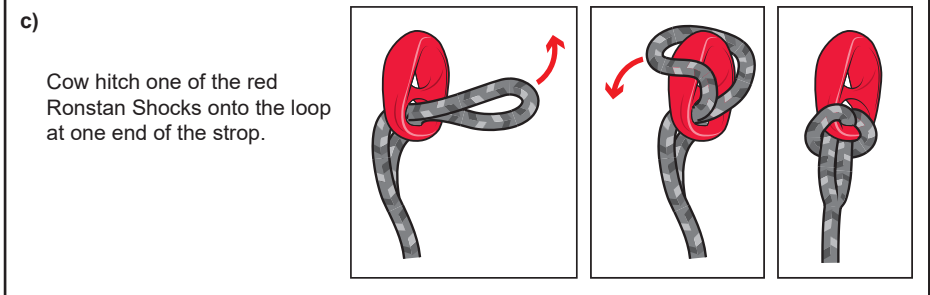
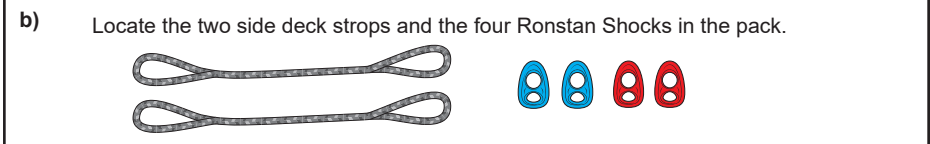
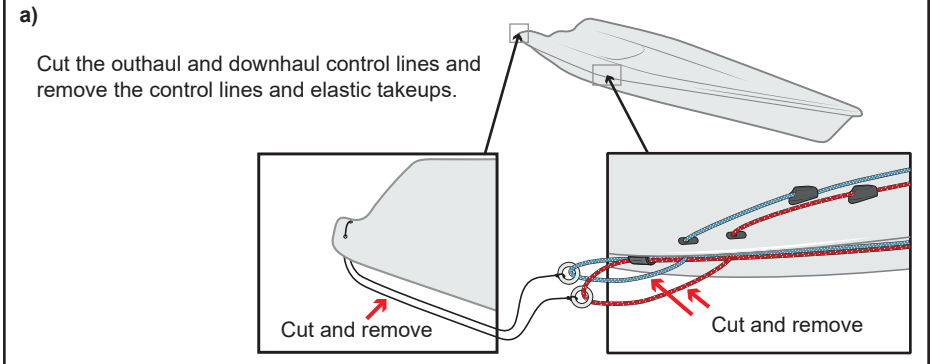


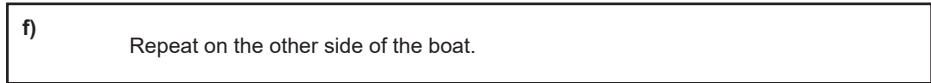
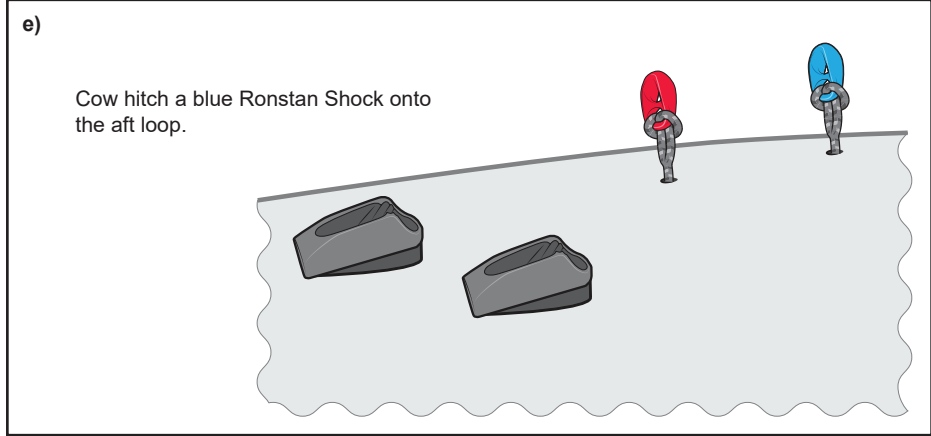
- Downhaul control line 
- Outhaul control line 
- Downhaul takeup elastic 
- 3 x Ronstan Shocks - (silver) 
- Traveller line 
- 2 x Side deck strops 
- 2 x Ronstan Shocks - (red) 
- 2 x Ronstan Shocks - (blue) 
- Block lashing 

**RS aéro** 1a - Tools Required

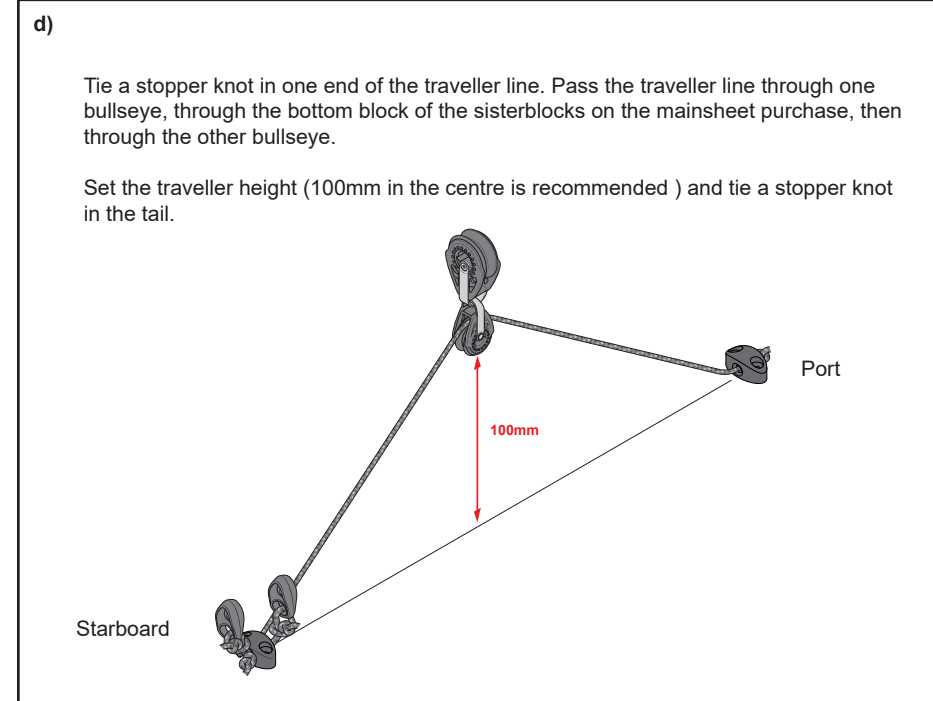
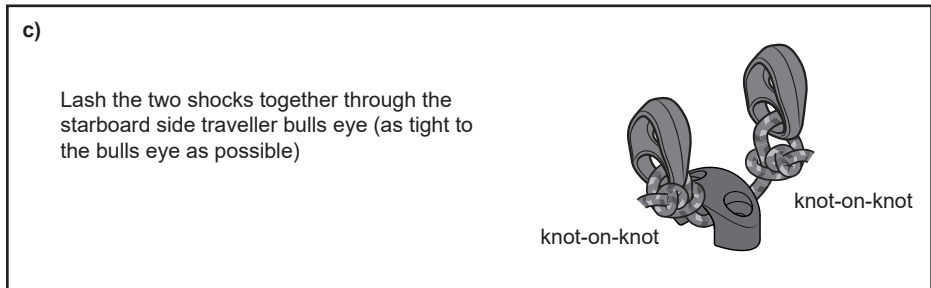
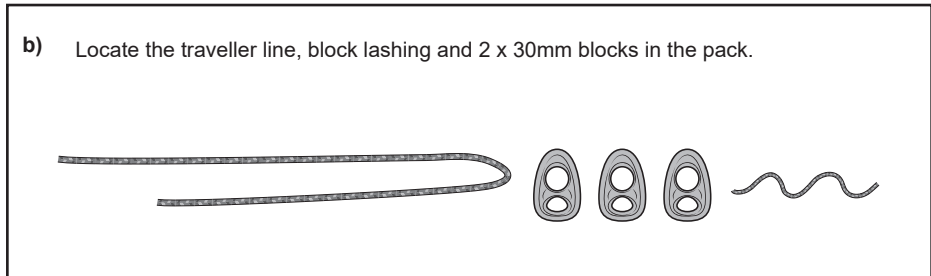
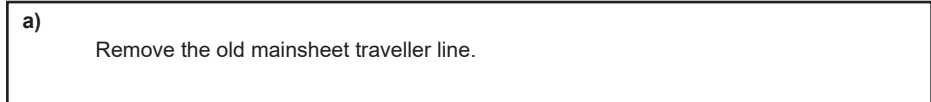
- Dyneema scissors 
- Push Fid 
- Pull fid (wire type or needle type) 
- Whipping twine 
- Sailmakers needle 
- Cigarette lighter 

**RS aéro** 2 - Adding the Ronstan Shocks

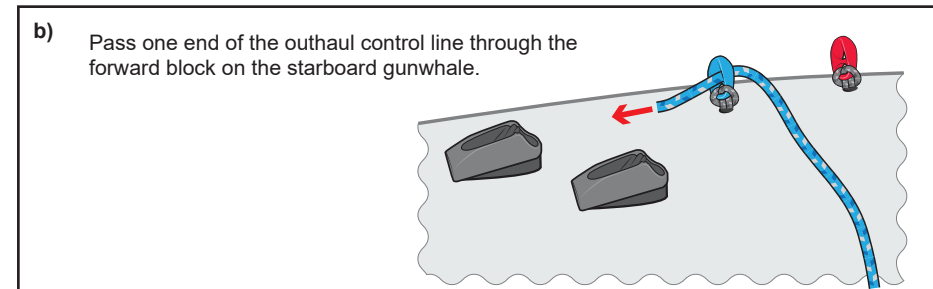
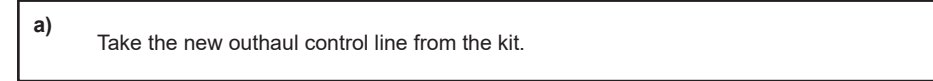




RS **airo** 3 - Changing the Traveller Line



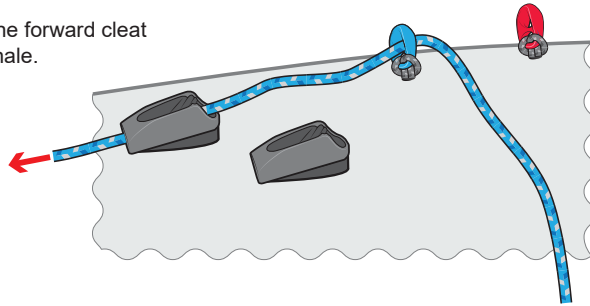
RS **airo** 4 - Outhaul Control Line



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.

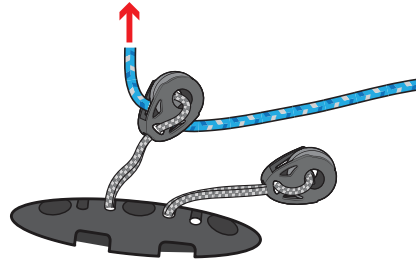
c)

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.



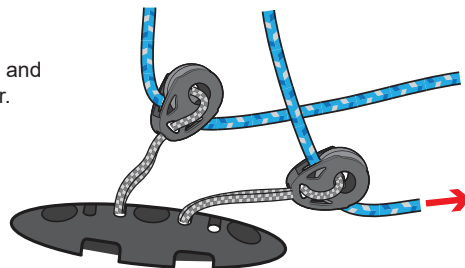
e)

Pass the end through the outhaul block at the gooseneck.



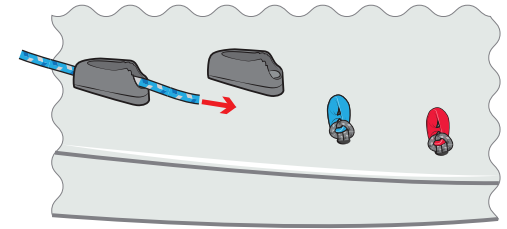
f)

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



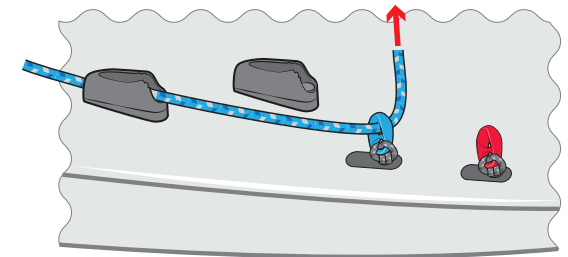
g)

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



h)

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



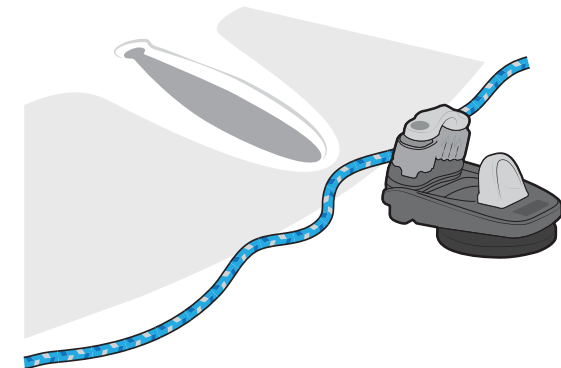
i)

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.



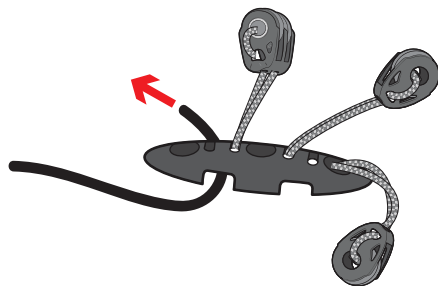
- a) Locate the Control Line take up shock cord and the last grey shock in the pack and tie the shock onto one end of the elastic with **knot #2**.



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

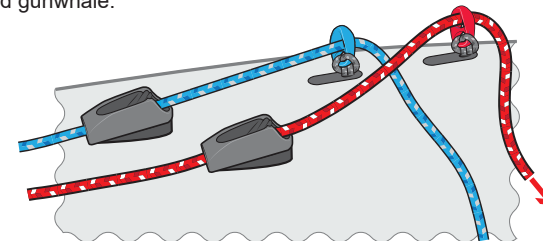


- c) Take the end aft and pass it underneath the organiser on the starboard side of the mast step.

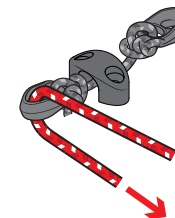


- d) Tie it off with a stopper knot. You may want to adjust this once the downhaul control line is added.

- 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.



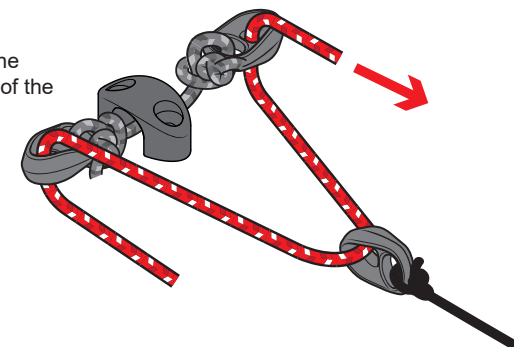
- b) Pass the end through one of the 30mm blocks on the end of the traveller line.



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

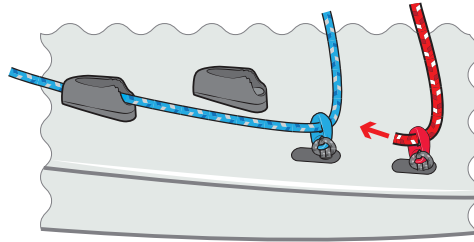


- d) Pass the tail aft and through the other 30mm block on the end of the traveller line.



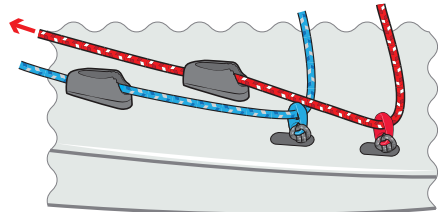
e)

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



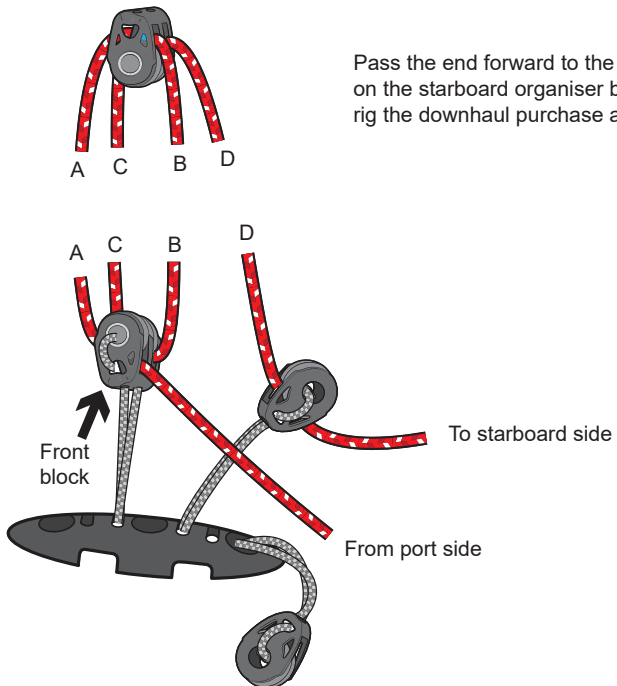
f)

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.



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**).



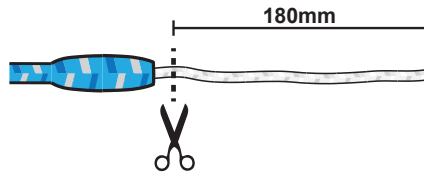
i)

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

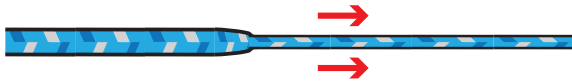
- a) Pull back the outer part of the control line to reveal the inner core.



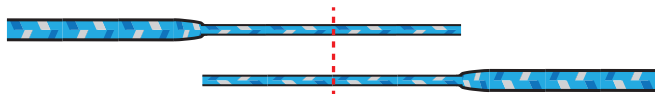
- b) Cut away 180mm of the inner core on each end of the control line.



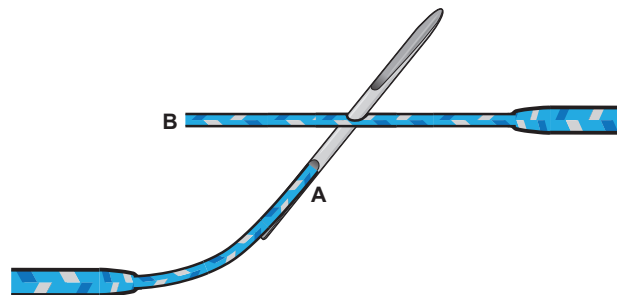
- c) Pull the outer part of the rope back. This will leave a thin section at each end of the rope and will mean that once they are joined the splice will still be able to pass freely through the blocks.



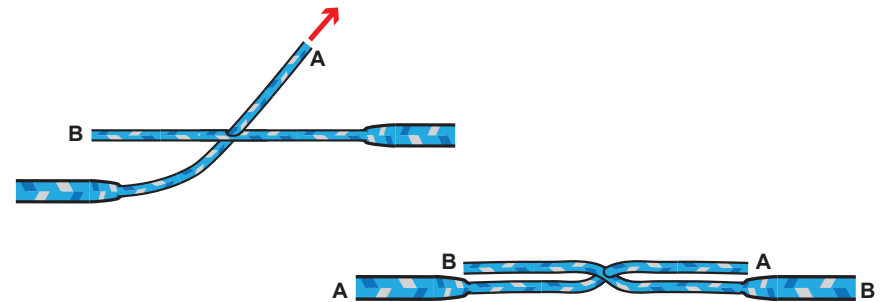
- d) Find and mark the mid point of the thin section of rope at each end.



- 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**).

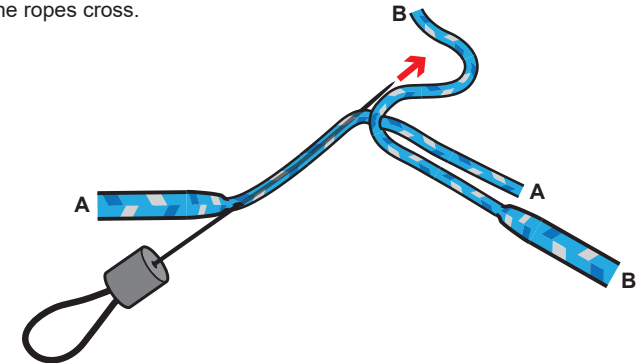


- f) Pull end **A** through until both sides are even.

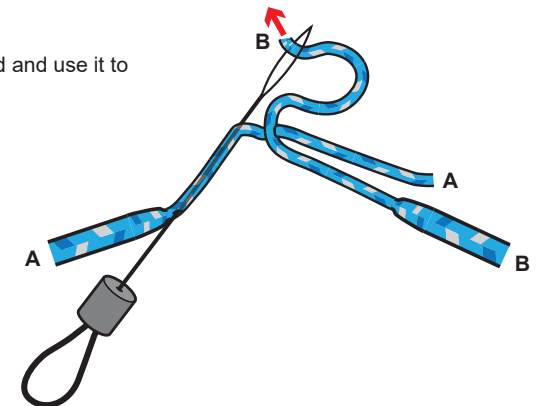


- g) Take your pull fid and push it into rope **A** at the point where the inner core ends.

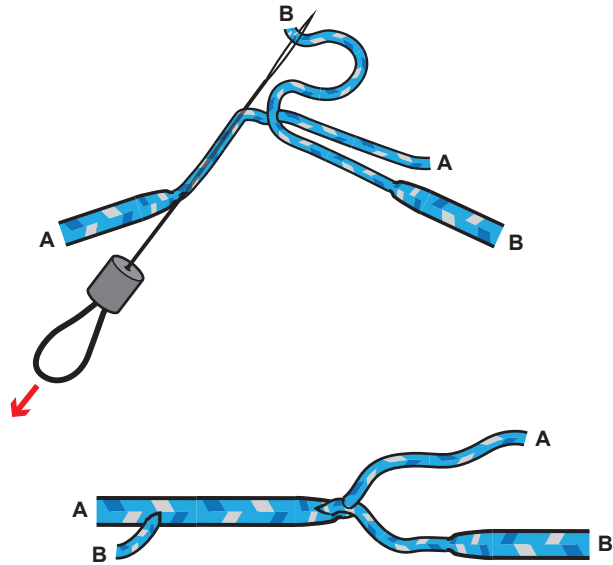
Push it through the rope towards the intersection with rope **B**, then exit tight to the point where the ropes cross.



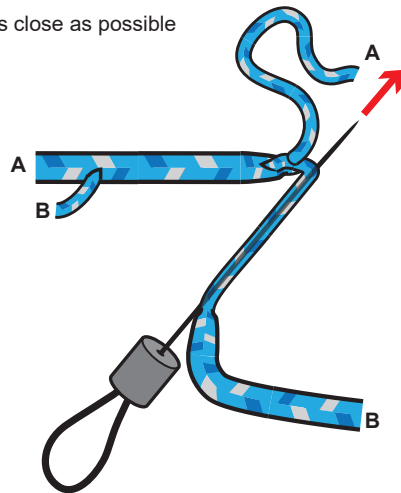
- h) Open the end of the pull fid and use it to catch the end of rope **B**.



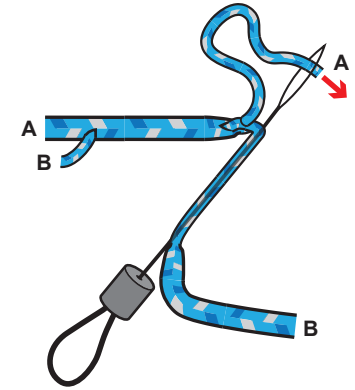
i) Pull the end of rope **B** inside rope **A** with the pull fid.



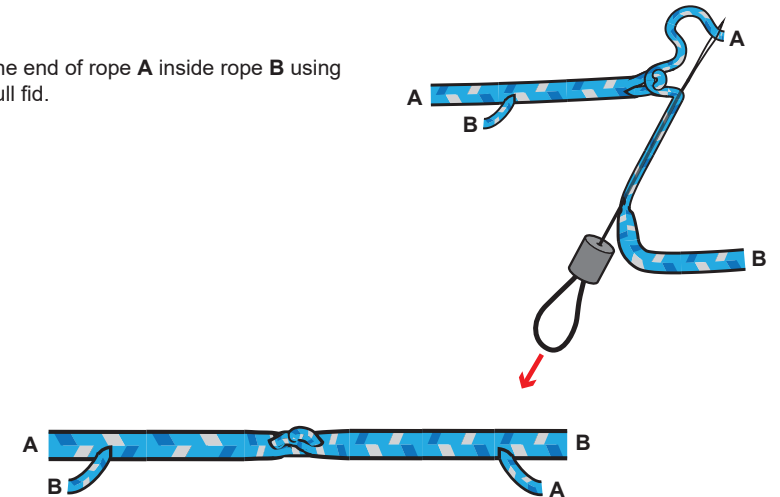
j) Take the pull fid and insert it into rope **B** at the point where the inner core ends.  
Push it through the rope and exit the rope as close as possible to the join with rope **A**.



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

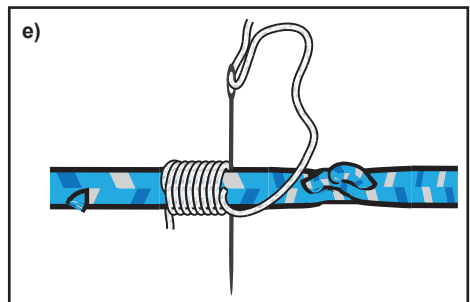
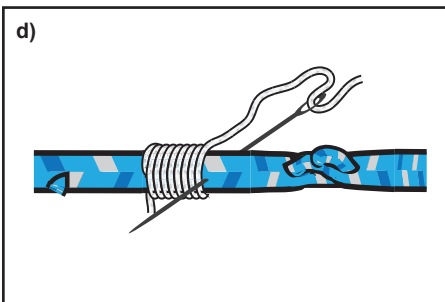
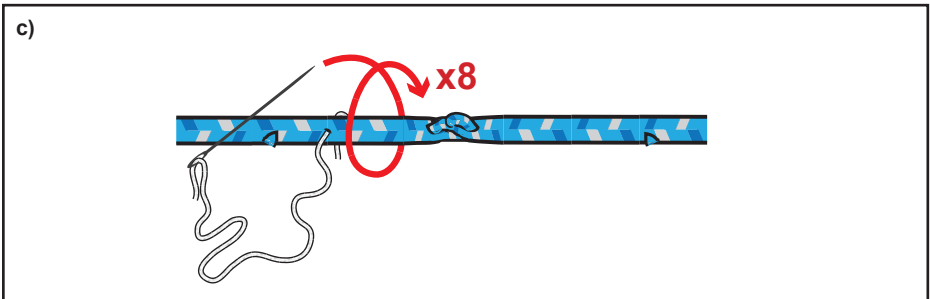
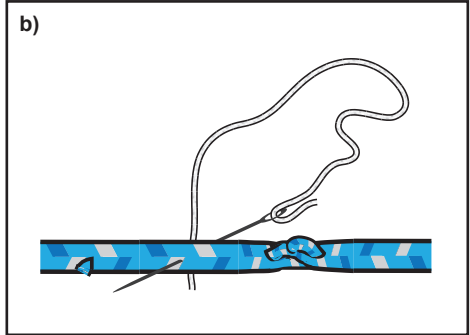
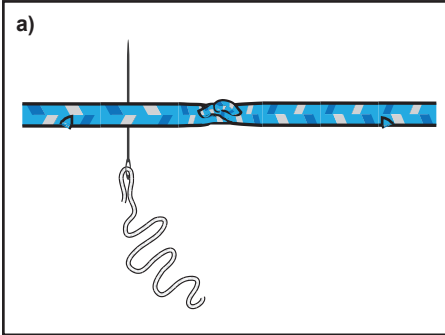


l) Pull the end of rope **A** inside rope **B** using the pull fid.



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.





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.