

West Coast Sailing

Laser / ILCA Cunningham / Outhaul Upgrade Kit (Harken) - SKU 26059

Rigging Instructions - Rev. 7/26/2021

Kit Contents

1. Harken deck cleats and base
2. Deck block base with 16mm Harken blocks
3. 4x screws for mounting deck cleats and deck block base
4. Cunningham primary and secondary lines (spectra and control line)
5. 29mm and 18mm Harken Carbo air blocks for cunningham rigging
6. Outhaul primary and secondary lines (spectra and control line) plus shock cord inhauler
7. 3x Harken 16mm Air Blocks and 1x Harken 16mm Air Block w/ Becket



Rigging Instructions



1 - Locate the cleat base with cleats. If removing a previous cleat, unscrew the two screws located by the daggerboard well. Align the cleat base over the two holes and screw into place. Make sure that the shorter of the metal fairleads are facing the bow. When looking at the cleat base from the side, the cleats should be angled down towards the bow.

Reminder: Before replacing the screws be sure to dip them into a silicon based sealant to allow for a water tight and secure fit.



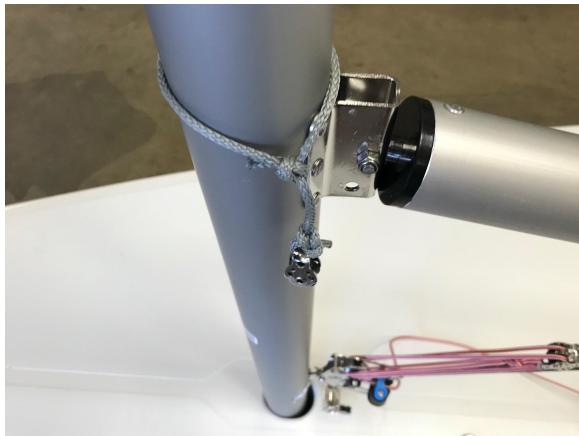
2 - Locate the 2x 16mm forkhead blocks and base. Unscrew the two screws located by the mast step. Align the block base over the holes and screw into place. Attach the forkhead blocks to the base using the provided pins and rings.



3 - Locate the Outhaul assembly as shown above.



6 - Locate the remaining single block with becket. Tie one end of the control line to the becket. Tie the long Dyneema primary control line to the top of the block.



4 - Tie the longer of the two lengths of Dyneema line to one of the single blocks with a bowline (so that the block is attached one end). Tie around the mast.



7 - Starting just aft of the boom cleat, pass the control line through the block on the cleat, aft to the block with becket, and then forward toward the mast.



5 - Take the second single block and shorter length of Dyneema line, and tie the block to the boom cleat.



8 - Finish running the control line by passing the line through the block hung around the mast, down to the deck block, and aft to the deck cleat.



9 - To rig the aft end of the system, run the Dyneema line (tied off to block with becket) through the fairlead at the end of the boom, through the hook, and back to the fairlead, tying off. You can also add a single block to the book to make the system run more smoothly.



10 - To connect your sail, use the included Clew Strap and pass the hook through the clew grommet.

The included shock cord can be used as a clew 'inhaul' to help ease the outhaul in light air. To install the inhaul, secure the shockcord to the boom cleat and pass back and under the boom, crossing up to and through the clew. Pass the shockcord back down and under the boom, back up to the cleat, forming an X on the bottom side of the boom. Tie off the shockcord to the boom cleat.

This step is optional



11 - Locate the cunningham assembly as shown above (includes black carbo blocks).



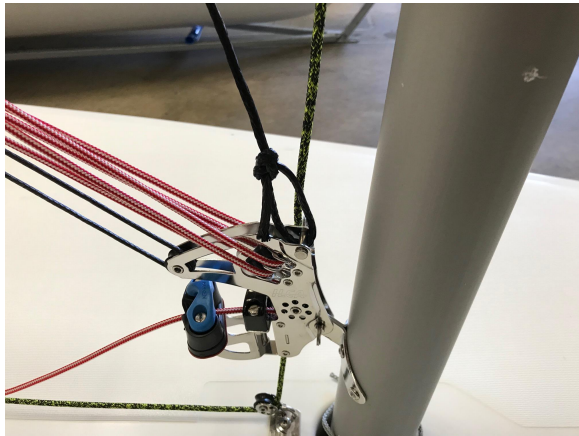
12 - Using the short length of Dyneema line, tie the smaller block (18mm) around the mast below the vang tang.



13 - THIS PART CAN BE TRICKY - Take the 29mm carbo block and both the control line and primary Dyneema line. Carefully pass one end of each line through the center of the block. It is a tight fit.



14 - Finish connecting the control line (orange) by tying a bowline. Finish connecting the Dyneema line by passing each end through the body of the block and up through the center of the plastic top.



15 - Tie a small bowline in the end of the Dyneema line and pass it through the grommet at the tack of your sail (not shown). The bowline loop can be attached to the vang assembly pin. The carbo block should now be hanging from the tack grommet.



16 - To finish rigging the cunningham, take the control line (orange) and run it in the following order: back to front through the block at the base of the mast, up to the boom and then front to back through the block hanging from the sail, and finally down to the deck block, running the line front to back and aft to the deck cleat.



Above are the included Clew Strap and Clew Hook with Block. Use of these accessories is optional. The clew strap is used to secure the clew of the sail down to the boom. This kit does not include an alternative clew tie down line, but one can be used if you prefer not to use the strap. The Clew Hook with Block is also optional. This hook makes it easier to quickly hook / unhook the sail from the outhaul system. You can also simply run the Dyneema primary line through the clew before tying off on the aft boom fairlead. There are multiple ways to complete the rigging and you are encouraged to do what works best for you!