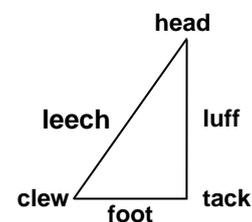


XENON Rigging Instructions



Definition of terms: See http://www.schoonerman.com/sailingterms/terms_c.htm

The sail – see the diagram for the parts of a sail.

Cringle – fitting in a sail that allows a line to fasten to it

Cunningham – Down haul which pulls the tack of the sail down and can be used to change the shape of the sail. (Named after its inventor, Briggs Cunningham).

Gnav - The bar which pushes the boom down and this alters the angle between mast and boom. This replaces the kicker. In USA the kicker is called a vang; gnav is vang spelled backwards!

Rigging

- First, ensure that a mast float is present (if missing borrow from left of cage storing windsurf sails near breakwater)
- Untie securing rope and wheel boat from berth and position bow to wind
- Remove boat cover and place in berth near tyres.
- Insert and screw bung into stern (hand tight only - do not over tighten) – This should be found (and left) in the centre of the cockpit.
- Feed main sheet through pulleys on boom – see picture (right)
- Remove rope holding boom to rudder pivot and tie to boat cover to prevent loss
- Attach the rudder making sure that retaining spring is under top pivot on transom – this is the only thing holding the rudder on. Tie the rudder up (and tighten the wing nut) for launching.



The Jib:

- Remove jib from sail bag and put bag under boat cover
- Unhook jib halyard and attach to jib with split pin. If you have some insulation tape, cover the ring so the spinnaker halyard can't catch on it. Now raise by pulling on jib halyard until metal loop appears and can be connected to hook. *Important:* (make sure that rope is not trapped between hook and metal halyard loop). Put loose end of rope into rope bag.
- Tension jib with the pulley system and cleat at the bottom of the mast on the right (starboard) side.
- Untie mast forestay from black furling bar and tie to right of mast using the free metal eye (do before furling jib to prevent catching spinnaker halyard.).
- Now furl the jib using the purple rope under the mast beam on right (starboard) side.
- The jib should remain furled whilst launching and mooring/recovering boat
- **Note:** Unlike our other boats, the spinnaker uphaul goes up the outside (rather than inside) of the mast on the port side and it is easy to get the jib wrapped around it.

The Spinnaker

- Take spinnaker out of sail bag, and pull spinnaker into chute using the blue rope on the left (port) side, folding so all the ropes are at the front end. Make sure that the sail does not get caught on the trolley handles.
- Remove the green halyard extension rope and tie halyard to head of sail (double rope through cringle and pass knob through resulting loop)
- Place green rope in spinnaker bag and put bag under boat cover
- Turn boat stern to wind and fly spinnaker on land to check it is rigged correctly, holding hull down if windy. It is essential to do this as the ropes often get the wrong way round!
- Thick sheets should be over thin downhaul. All lines should be on outside of jib, shrouds etc.
- Turn boat head to wind again.

The Mainsail. This is best rigged and raised on land if winds permit. Note that the sail must be rigged from the port side of the boat due to the Gnav being attached to the starboard side of the mast.

- Lower main halyard, and untie outhaul being careful not to let boom drop.
- Remove mainsail from bag (store with cover) and attach halyard to both mast head float and head cringle (double rope through cringle and pass knob through resulting loop)

- Raise mainsail, threading luff piping (bolt rope) into mast slot, tension sheet by “sweating” (pulling rope to the side) once cleated to tighten further.
- Pass cunningham through upper cringle and back through hole in mast/boom gooseneck fitting and knot (Note that sail has 2 cringle positions)
- Check that downhaul can be tensioned with cunningham
- Insert the mainsail clew end fitting in slot in boom, and attach outhaul through clew cringle and place knot in slot,
- Lower mainsail and re-raise once on water.

Launching / Recovering.

- Use winch when launching or recovering from water as boat is too heavy to do so manually

Reverse the process when de-rigging; not forgetting to tie the mast forestay to the front of the boat before dropping the jib or the mast will fall down. Tie the rope loosely since letting off the jib tension will tighten it.

Reefing: In strong winds, you need to put a reef in the mainsail.

Detach the Outhaul and Cunningham, then lower mainsail so upper zip is in line with boom. Roll the sail from the bottom as tightly as possible. Then connect the zips to complete the reef.

Re-attach the Cunningham. Slide slug back along top of boom end. Re-attach clew end fitting to outhaul. (**TIP:** Loosen outhaul at front of boom).



Other information: Manufacturer's rigging instructions here:

http://www.toppersailboats.com/pdf/rigging/rigging_instructions_xenon.pdf

(From <http://www.toppersailboats.com/downloads.aspx>)

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