

SACRAMENTO STATE AQUATIC CENTER

A PROGRAM OF ASSOCIATED STUDENTS, INC.

Laser Rigging Instructions

Secure necessary equipment from sail bay:

- Put on a PFD.
- Go to the sail bay and obtain a mast and sail. Sail has a sleeve pocket that fits over the mast. The combined mast and sail are located on the left hand side of the sail bay. Check to ensure the one you pick has a boomvang attachment. Make sure the sail has 3 battens. Remove mast and sail by grasping at center, pulling back into the sail locker to get it off the forward storage rail, and then walking out of the sail locker.
- Choose a rudder; note that there are long and short tiller extensions. Choose the one that makes sense for you. Get a dagger board.
- Carry all items down to the dock.

Secure necessary equipment from sailing dock:

- Choose a hull (the ones with a hiking strap and on the bottom rack are in the best shape). Make sure the hull you choose has drain plugs, rudder tang, and traveler.
- Pull the hull from the storage area to a clear area on the finger (state) dock.
- Point bow into the wind.
- Open the cockpit drain and ensure that the boat is drained of all water, then re-insert the drain plug.

Now step the mast:

- Unfurl the sail from around the mast and insert the battens. Make sure the boomvang is not wrapped around the mast.
- Step the mast into the hull. Approach the boat from the bow and use the Cunningham fairlead to help guide the foot of the mast into the hole in the hull. (Get help from the dock master if the mast is too heavy for you to lift on your own).

Attach the cunningham to the hull:

- The cunningham keeps the mast attached to the hull.
- First route the cunningham through the fairlead, then the cam cleat. Tie a figure 8 knot seated close to the cam cleat.

Rig the boom, mainsheet, and boomvang:

- First unfurl the mainsheet from around the boom. Next, attach the outhaul to the clew of the sail and then position the boom on the gooseneck. Now tighten down the outhaul and tidy up the spare line
- Route the mainsheet from front to back on traveler block, then back to front on aft boom block, then through the boom fairlead eyelet, then back to front on forward boom block, then feed through ratchet block on hull. Note that there is an on/off mechanism for the ratchet effect.

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- Note that the mainsheet has a tendency to wrap itself around the stern of the hull.
- Attach the boomvang to the boom.

Attach the rudder, tiller, and daggerboard:

- Slide the hull partially off the dock. Make sure the tiller is underneath the traveler.
- Place the hull completely in the water and install the daggerboard.
- Route the bitter end of the cunningham through the hole in the daggerboard and secure it with a figure 8 knot. This keeps the daggerboard in the hull in case of a capsize.

Your boat should now be fully rigged and ready to sail!

Derigging

When finished sailing, derig the Laser in opposite order of rigging:

Remove the blades:

- Detach the rudder and tiller.
- Untie figure 8 knot attached to daggerboard, and remove daggerboard.
- Pull the boat out of water and turn into the wind.

De-rig boom, mainsheet, and boomvang

- Detach the boomvang.
- Deroute the mainsheet.
- Detach the boom from mast by loosening outhaul, detaching from gooseneck, and removing outhaul.
- Wrap the mainsheet around the end of the boom.

De-rig the mast:

- Detach the cunningham and wrap around the mast.
- Un-step the mast, get help from the dockmaster if needed.
- Lay sail out and remove battens.
- Roll sail around mast.
- Wrap boomvang around mast.

Return equipment:

- Return hull to storage area on dock and remove drain plugs.
- Return boom, mast, and rudder to sail bay.
- Return your PFD to a hanger on the PFD storage rack.

Report any problems or damage to the front desk when you check back in. Thank you!