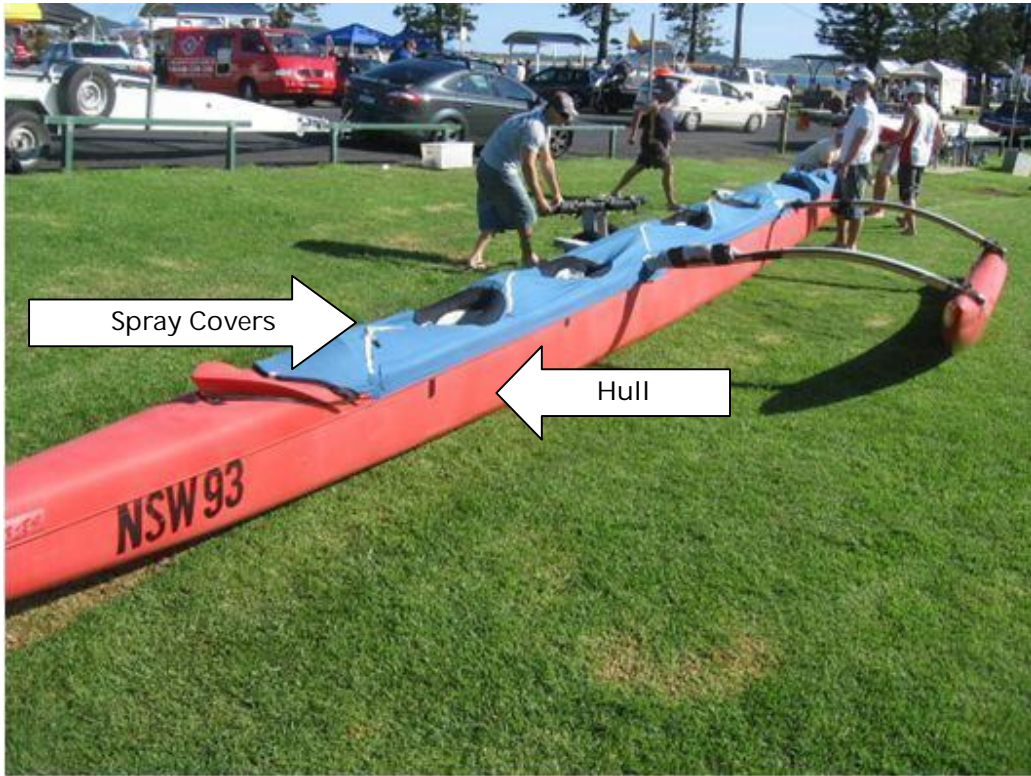


ESOCCI RIGGING MANUAL



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When training & racing in outrigger canoes, the canoe is your protector on the water and therefore it is imperative that the canoe is rigged correctly. There are a few tips that should always be remembered when rigging –

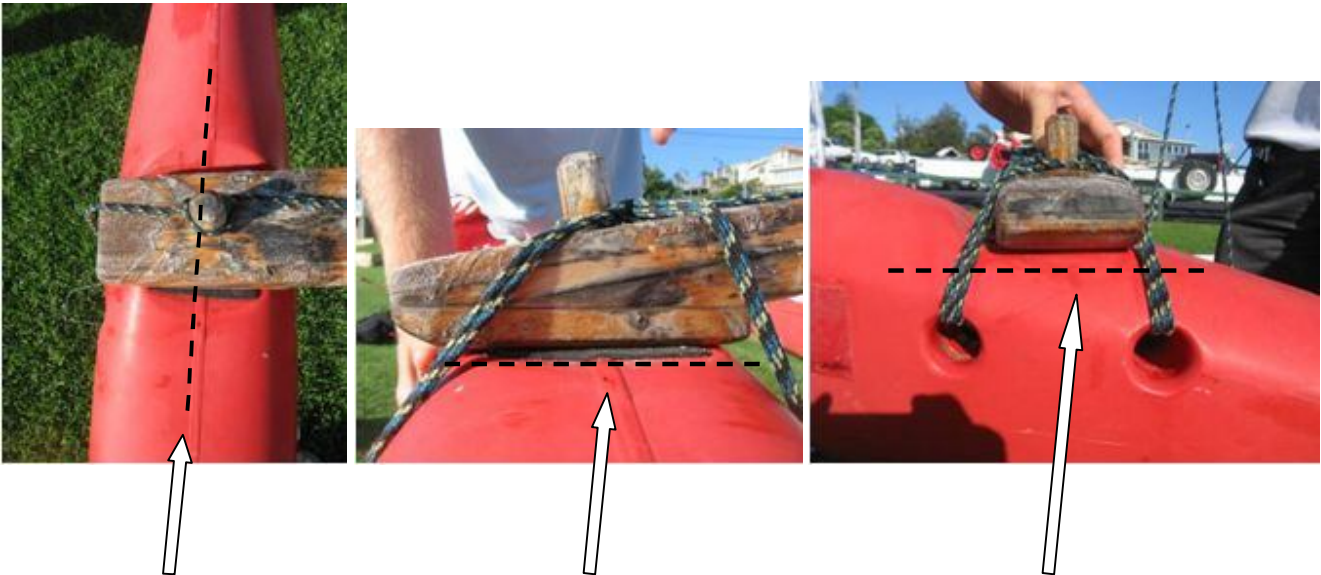
- please ensure that each canoe's gear is placed in the corresponding tub (NSW 73 or NSW 93)
- **always ensure that the ropes & straps have a consistently strong amount of tension on them**
 - if in doubt, ask someone, do not proceed
- **it takes twice as long to rig a canoe poorly. Why? Because it will have to be done again!!**

1. AMA TO IAKOS

a) Ensure that the hull is on level ground so that it doesn't rock.



b) Roughly align the forward & rear iakos using the markers (it doesn't have to be exact at this point but keep it fairly close). Roughly but tightly, ratchet the iakos flush to the hull.



c) Position the ama so that it sits flush under the iakos (you may need to pile up sand or use the covers bag). Loop the rope around the pin with a knot & leave no less than 30cm of rope. Ensure that the ama is flush on all angles and that the centre line of the ama is aligned with the **bottom** of the pin (view from all angles).



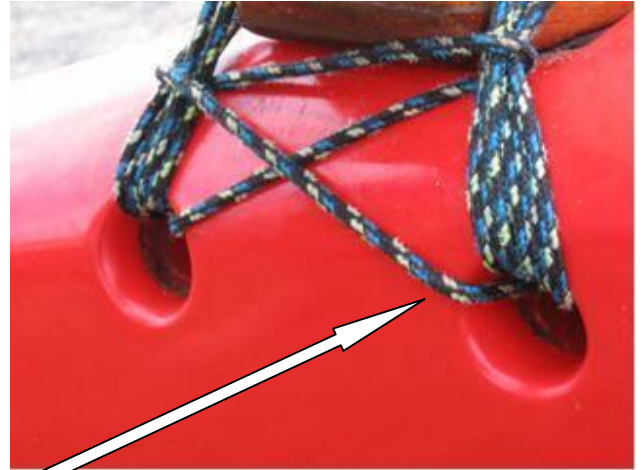
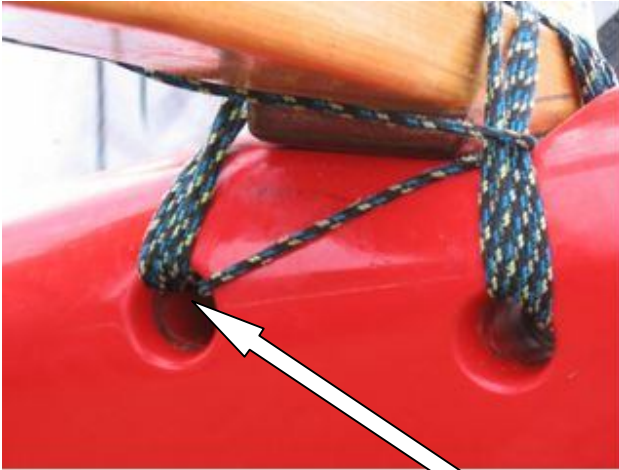
3 loops

- d) Using the rods, start in an outward direction away from the hull, crossing **behind the pin**. Feed the rope through the holes working to the **outside** of the previous loop through the holes so that the force is centralized to the pin. **Check that the bottom of the pin is still aligned with the ama centre line.** There should be 3 loops entering into each hole (count the ropes in the hole, not on the pin) before you switch to crossing the **front of the pin**.



5 loops

- e) Repeat Step 1d) except now the ropes go in **front of the pin**. **Check that the bottom of the pin is still aligned with the ama centre line.** Keep working to the **outside** of the previous loop until you count 5 loops through the holes.



6th Loop

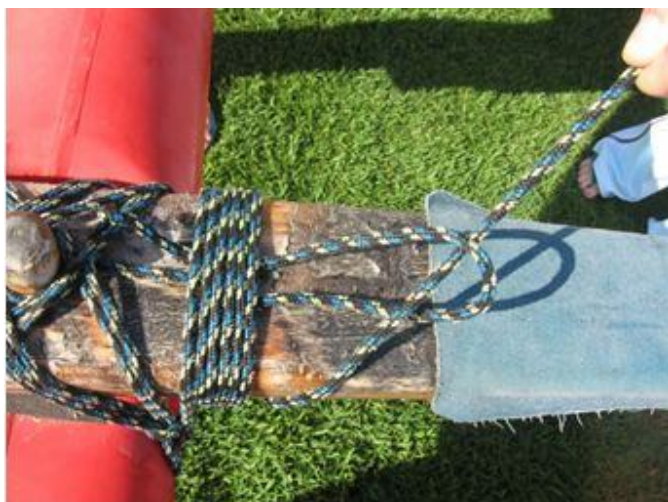
- f) The 6th loop through the hole goes on the **inside** of all previous loops. It should exit on the **hull side of the ama** and cross over & through the diagonal pieces of rope. Cross it back on itself & repeat for the other side to lock the ama to the iako. It is very important that **rope tension is maintained** here.



- g) Feed the rope through the hole to the **outside** of the ama, but keep it on the **inside** of all previous loops within the hole and repeat the locking loops again as per step 1f).



- h) Loop the loose starting piece as shown above. Commence wrapping the rope around the iako to encase the starting section of rope.



i) Keep wrapping the rope tightly around the iako.



j) When you get near the end, feed the rope through the loop that you created at the start and then pull the loop until the loop/rope section is half way under the wrapping.



k) Near the end of the rope, tie a reef knot or 2. **If you have rigged tightly, you do NOT need to use tape** (it actually tears the lacquer off the iako). If you must use tape, always leave a tab at the end.

2. IAKOS TO HULL



2 a)



2 b)

a) Now undo the ratchets and align the forward & rear iakos using the markers & at the position specified by your coach. Generally, it is a good idea to have the forward iako slightly closer than the rear, so that the ama is “nose in”. The ratchets are placed against the spreader with the strap above the ratchet and the ratchet in the centre of the spreader (if they are too low, they will damage the spreader).

b) Tightly wrap the strap over the iako/spreader, slightly overlapping the previous loop.

Note – 3 tightly wrapped loops in photo 2 b).



2 c)

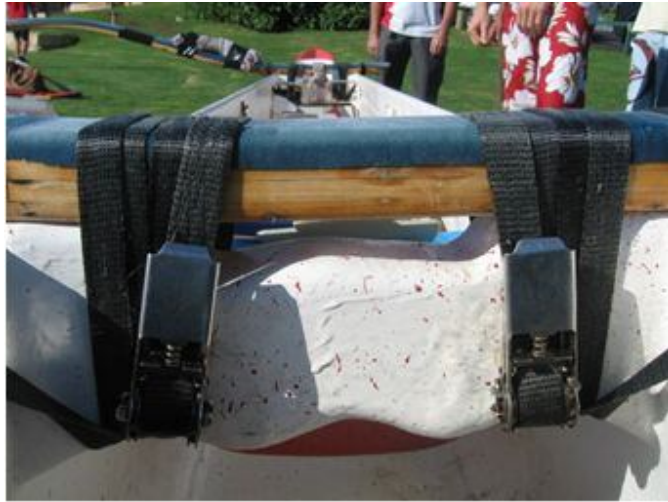


2 c)

c) Complete 3 loops before proceeding through the **rear hole** to tighten the iako to the gunnel ensuring no twisting of the strap and that there is **consistent tension** applied.



3 d)



3 d)

- d) Feed the strap back through the holes, under the spreader and tighten the ratchets.
The finished product should not move.

3. SAFETY EQUIPMENT

The Tow Rope



3 a)



3 b)

- a) The tow rope should always remain taped to the forward iako.
 b) Feed the loose piece of rope through the **forward hole**.



3 c)



3 c)



3 c)



3 c)

c) Now feed the rope across to the other side of the hull, through the hole, outside the hull, through the rear hole, across the other side and back through the forward hole again.



3 d)



3 d)

d) Wrap the rope around the middle of the iako & spreader 5 times.



3 e)



3 e)

e) Feed the rope through the space between the iako & spreader and continue to wrap it upon itself with half hitch knots as you go. Do not leave any rope dangling down on to the hull as this may annoy the paddler in seat 3.



The Attached Safety Rope

The PFD's and Bailers



3 f)



3 g)

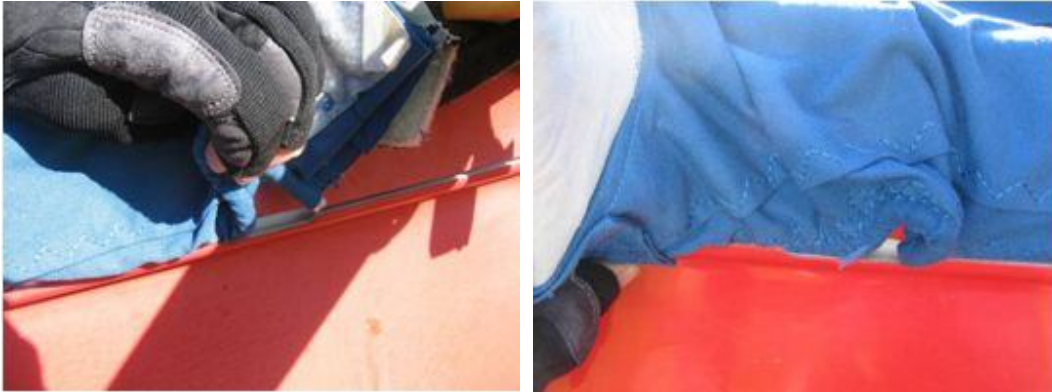
- f) Insert the PFD's under the spreader and loop the rope over the top of the iako and clip it onto itself.
- g) Attach bailers to the clips/hooks with the bailer **opening facing forwards**.

4. COVERS

- a) Place all hoops near their correct positions (they are all numbered).
Insert hoop 7 into its bracket before you start to put the covers on.
- b) **Wet the covers before you put them on as it makes the task easier.**



- c) Feed from the rear section first and it helps to have them unzipped. Ensure you complete all sections (ie; the canoe is fully covered) before you start to do up any Velcro or zippers.



d) Feed back the covers under the iako sections and do up the Velcro. You do **not** need to tape around the covers at the iakos unless there will be a chance of rough seas. If taping, again ensure that you leave a tab at the end of the tape.



e) Place the front section in position and stretch rubber over the wave breaker.



f) Place the rear section in position and stretch the rubber over the tail.



- g) Insert all on the hoops and **carefully** zip up the covers – please **do NOT force the zippers** as they can break, which results in a big problem on race day.

5. FINAL CHECK



- a) **Attach a spare paddle to rear iako.**
- b) **Check all the rigging and the covers to ensure tightness.**
- c) **Register the canoe for races and tape the flag/number to the nose section.**

6. DE-RIGGING

- a) **Report any damage that may have occurred during the race/s.**
- b) Remove the hoops and **zip the covers up before taking them off.**
- c) When possible, please rinse the covers in fresh water and allow them to dry.
- d) Place all hoops, ratchets, ropes, covers, etc. in the corresponding gear bin for that canoe.
- e) Please ensure that nothing is left behind.