Notes on rigging of Optimists



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Knots

All sail ties	Reef knots
End of all ropes	Figure of eight
Thin to thick rope	Sheetbend (single or double)
Shockcord to shockcord	Sheetbend (pulled very tight) or fishermans bend
Shockcord to rope	Double sheetbend with loop in shockcord
Painter to boat	Bowline, do not put a figure of eight in the free end, make sure the end is well sealed by burning.
Mast securing rope	reef knot, it must allow the mast to rotate and also tight enough to restrain the mast.
Knots in sprit rope	Consider whipped eyes to reduce bulk, otherwise use bowlines
All permanent knots	Use bowlines or sheetbends (single or double). Never use reef knots.

Ropes

These must be thick enough to jam correctly in the cleats. For clam cleats; 8 plait or 3 strand works well. For V cleats; only use 3 strand.

Main sheet	Usually 8mm 8 plait with a soft covering.
Boom strop	4/5 mm kevlar or dynema, this must be tight with no stretch. Wire is not recommended as it won't give if it hits your child when gybing, or starts fraying.
Sprit control	5/6 mm kevlar or dynema, wire can be used for part attached to the sprit

Setting up the sail for average conditions.

Attach all sail ties. Adjust top diagonal tie so that the top mast tie runs normal to the mast (not at an angle).

Put the mast in and attach the boom and kicking strap.

Put the sprit in but don't tighten yet

Put the boom height control rope on and adjust until the luff is just tight.

Adjust the kicking strap by just removing the slack, do not over tighten.

Adjust sprit: tighten until a diagonal crease appears in the sail. Pull in the sail and the crease should just about disappear.

Other points

If you are worried about a sore head from boom contact, then you can fit pipe lagging to the boom. See the IOCA log book for more details of terminology.

General

If in doubt please ask, but please note that the instructors may be busy with organising rescue boats, children, activities (or their own children). So you will have to try and catch them at a slack time or ask someone else.

Please note that Optimist sail adjustment is an art form, most other dinghies are a doddle in comparison, so you won't be the only one having problems.

It is a good idea to look carefully at several other good boats (usually ones in the racing fleet) and ask experienced parents before making any changes.

Join IOCA, to get the IOCA log book and a magazine. The club uses the IOCA scheme, not the RYA scheme which is slightly different

Books Beginners - Sailing for Kids by Gary and Steve Kibble, Fernhurst Press (was The Prudential book of Sailing, A Guide for Young People.)

More advanced - Optimist Racing by Phil Slater, Fernhurst Press

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Rigging

These notes are for beginners and intermediates, racing setup is different.

The five corner ties take a lot of load and must be of good quality rope. Failure of these ties may result in a torn sail.

For all these main ties use 2 turns of 2mm dynema. Using 2 turns gives better control of the tightness at each of these ties. The other mast ties should be just tight, with a slight gap between sail and mast. The boom ties should allow a slight gap between sail and boom.

