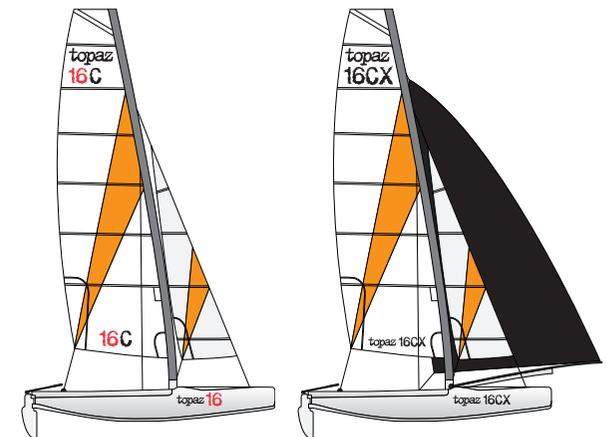




Topaz 16C/ 16CX Rigging Instructions

Topaz 16C

Topaz 16CX



topaz 16

TOPAZ 16C/ 16CX RIGGING INSTRUCTIONS

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INTRODUCTION

These **RIGGING INSTRUCTIONS** have been compiled to help you to rig your TOPAZ 16C/ 16CX.

Please also ensure that you refer to your TOPAZ **OWNERS MANUAL**. The **OWNERS MANUAL** has been compiled to help you to operate your craft with safety and enjoyment. It contains details of the craft, the equipment supplied or fitted, it's systems and information on its operation and maintenance. Please read it carefully and familiarise yourself with the craft before using it.

If this is your first craft, or you are changing to a type of craft you are not familiar with, for your own comfort and safety, please ensure that you obtain handling and operating experience before assuming command of the craft. Your dealer or national sailing federation or yacht club will be pleased to advise you of local sailing schools, or competent instructors.

PLEASE KEEP THE **RIGGING INSTRUCTIONS** and THE **OWNERS MANUAL** IN A SECURE PLACE AND HAND THEM OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT.

MANUFACTURER DETAILS

For further information, spares and accessories, please contact the manufacturer:
TOPPER INTERNATIONAL LTD,
Kingsnorth Technology Park,
Wotton Road, Ashford, Kent TN23 6LN
Telephone +44 (0) 1233 629186
Fax +44 (0) 1233 645897
email info@toppersailboats.com

TOPAZ 16 RIGGING INSTRUCTIONS

TOPAZ 16 TOOLS REQUIRED

In order to rig the Topaz 16, it is advisable to have your tool kit to hand. You will need a flathead screwdriver, a phillips screwdriver, a pair of plyers and a socket set.



TOPAZ 16

TOPAZ 16 RIGGING INSTRUCTIONS

BEAMS

Lay the two hulls into the launching trolley cups bow first. This will hold the hulls in the correct position to connect to the main and rear beam.

8x lock nuts, washers and 8mm x 15mm s/s bolts are supplied.

You will require assistance to bolt the beams into the hulls. The main beam has a ball deck step and is shaped to fit snugly into the front socket of the hulls. The rear beam is smaller with a traveller attached and a row of small plastic wheels along its length. Again this is shaped to fit perfectly into the rear beam sockets with the white plastic wheels facing aft.

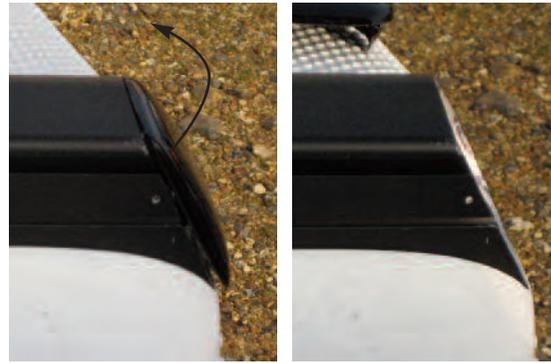
Feed the bolts into the holes in the hulls going through the washer and then attach lock nut and tighten.

Attach the main beam first followed by the rear beam.

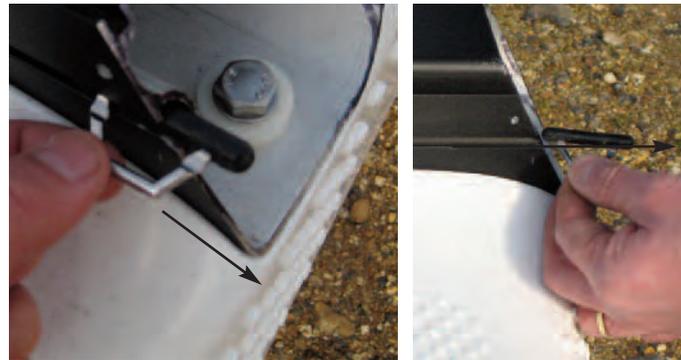


TRAMPOLINE

A. Remove the beam end cap from the main beam.



B. Remove slugs from front beam.



C. Ensure that the 5mm glass tube is inserted into the sleeve that runs along the front of the trampoline.

Insert 5mm glass tube and trampoline into the main beam.

Then slide across the length of the beam until the trampoline is positioned centrally.



D. Re-insert slugs to the right and left of the trampoline to hold it in position.



E. Re-affix beam end caps to secure trampoline in position.



LACING THE TRAMPOLINE

A. Insert 10mm glass rod into rear of trampoline.

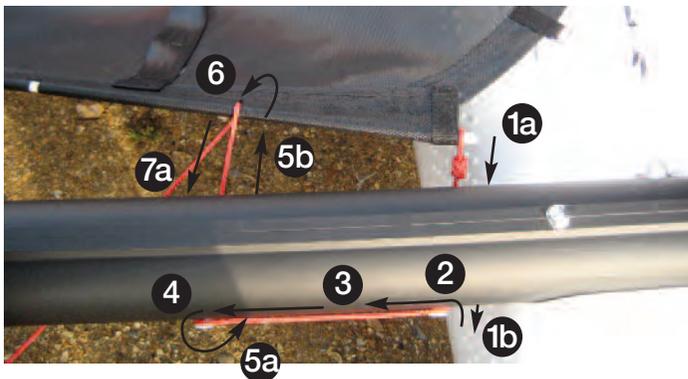
B. Tie loop on end of trampoline lacing line using a bowline knot.



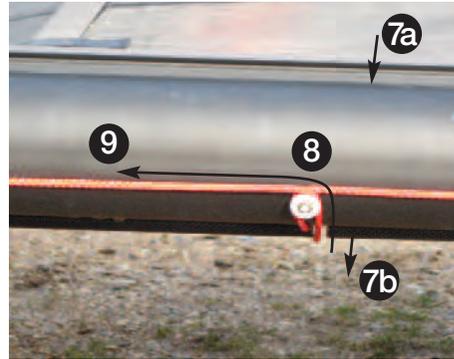
C. Then slide the loop on the lacing line over the end of the 10mm glass fibre rod. You can then begin to lace the trampoline onto the rear beam.



D. Then (1) feed line under rear beam, (2) over the top of the 1st nylon wheel, (3) on to next wheel, (4) over the top of 2nd wheel, (5) Then forward under the beam, (6) and down through the eye in the rear of the trampoline around the 10mm rod, (7) then back under beam...



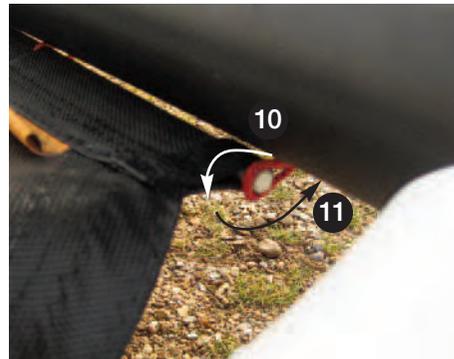
E. ... (8) over the top of the 2nd wheel and (9) on to 3rd wheel. Then continue lacing process until you reach the final nylon wheel on the end of the rear beam.



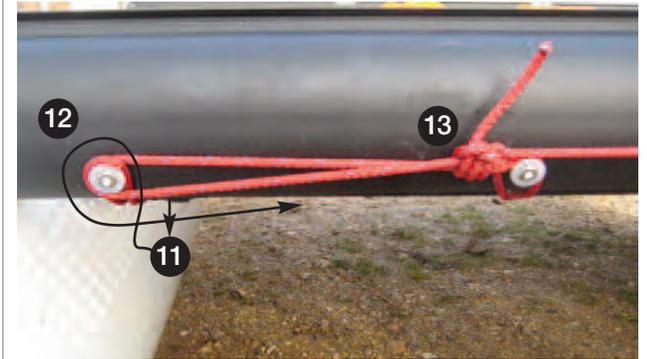
F. Once at the end of the beam. Go back to first loop and tighten the section between the first wheel and the second. Then tighten the loop between the second and third and so on.



G. With the tail of the rope, feed under beam, (10) loop it over the far end of the 10mm glass fibre rod and then (11) back under the beam.



H. (12) Round the last nylon wheel and (13) tie off between the last wheel and the last but one.



NOTE; THE TRAMPOLINE LACING WILL NEED TO BE RE-TIGHTENED FROM TIME TO TIME TO ENSURE THAT THE TRAMPOLINE REMAINS TAUT.

ATTACH TRAMPOLINE TO FRONT BEAM

A. Tie the front end of trampoline onto slug on front beam.



B. Pull tight, so end pulley wheel is tight in the back end of the trampoline.

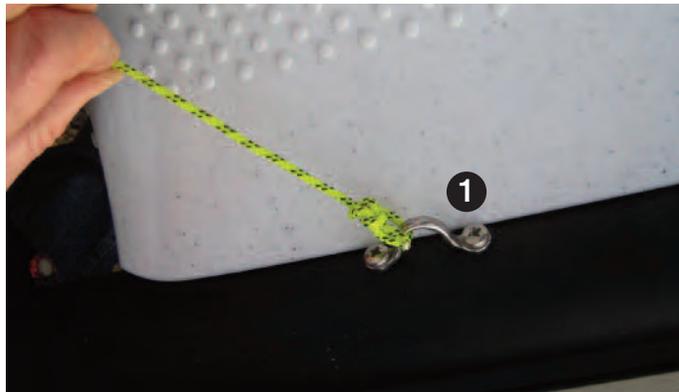
C. Tie off to slug using a half hitch with a knot against it to stop it slipping.



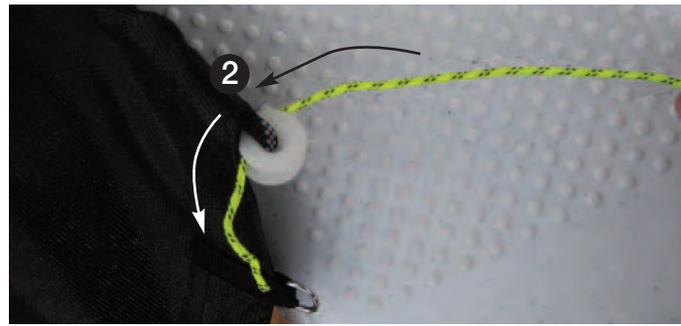
Repeat this on the opposite side.

ATTACH TRAMPOLINE TO REAR BEAM

A. (1) Attach trampoline tensioning lines to the deck eye on rear beam.



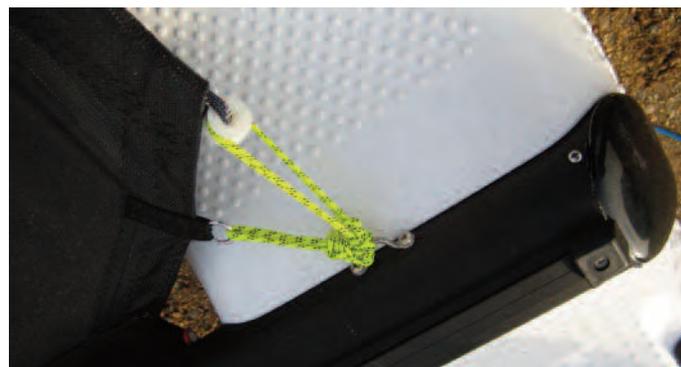
B. (2) Feed forward & through pulley wheel at rear of trampoline.



C. (3) Back through deck eye. Tension as tight as possible.

Then repeat process, this time through the stainless steel ring fixed to the back of the trampoline (4-5).

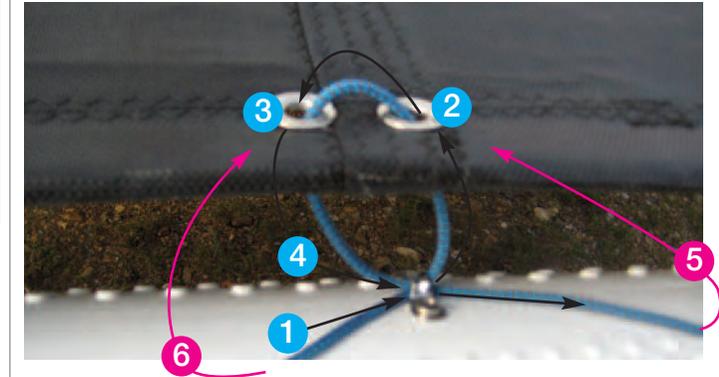
(6) Back through deck eye. Again, tension as tight as possible. Tie off with a round turn and two half hitches.



Then repeat on opposite side. Ensure trampoline is as taut as possible to ensure a firm platform.

TIGHTEN CENTRE OF TRAMPOLINE

A. Tighten centre of trampoline by (1) feeding rope through deck eye left-to-right, then (2) up to and through right trampoline eyelet, (3) through left eyelet and back down (4) through deck eye (left to right).



B. (5-6) Then feed right hand tail up through right trampoline eyelet and left hand tail up through left trampoline eyelet, tighten and tie off with a reef knot.

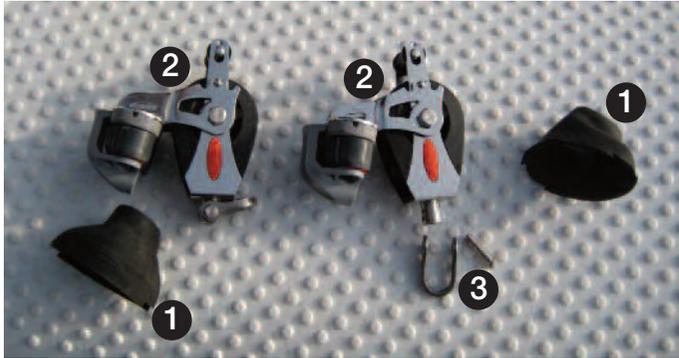


C. Tidy tail ends by tucking back down through eyelets.

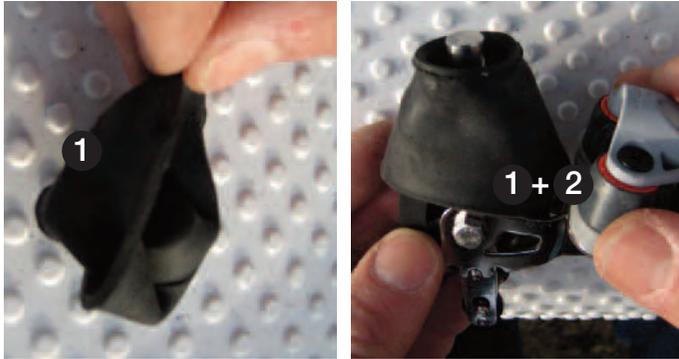


JIB BLOCKS

The jib block set includes (1) 2x rubber boots, (2) 2x jib blocks and (3) a shackle.



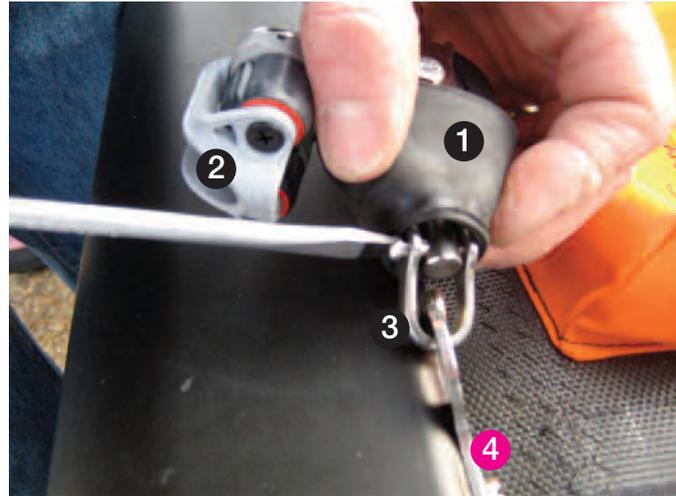
A. To attach the two jib blocks to main beam, firstly, turn rubber boot inside out. Then, Place over bottom of jib block.



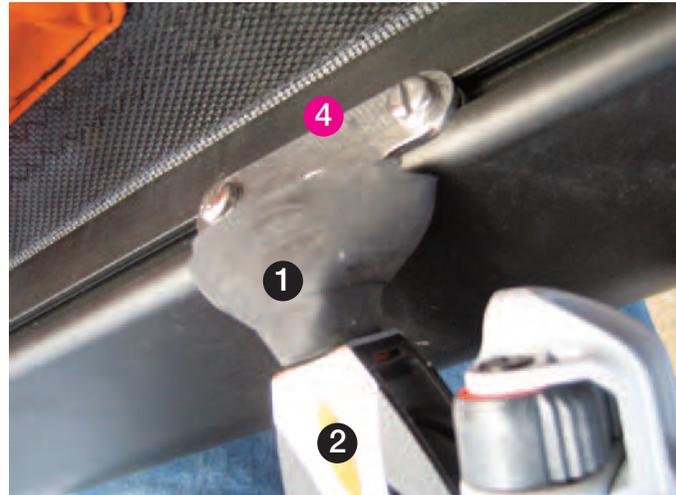
B. Attach shackle to left eye (4) on the front beam.



C. Tighten shackle.



D. Fold rubber boot back over the eye.



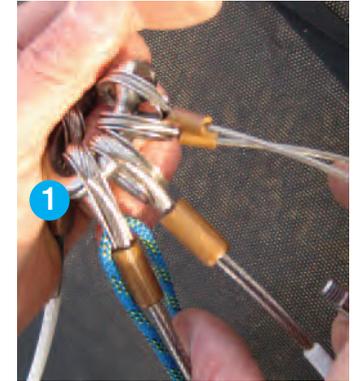
E. Repeat, to attach second jib block to the right eye on the front beam.

MAST

Lay mast section along centre of boat with the top of the mast pointing towards the back of the boat.

A. Attach the rigging to the mast using the large bow shackle (1).

The rigging includes;
1x set of shrouds (coated in white plastic)
2x trapeze wires
1x forestay (metal ring and pulley).



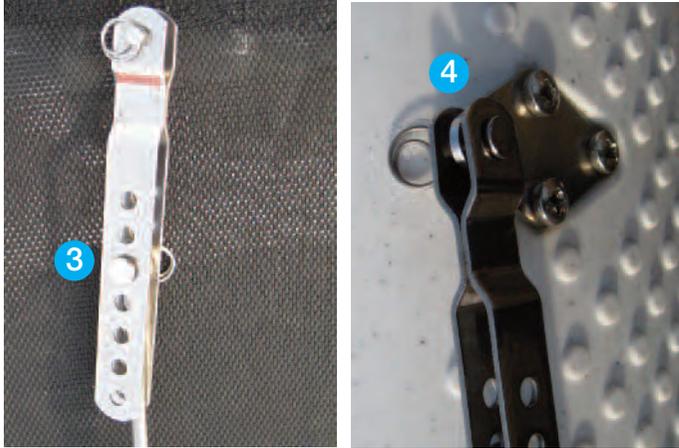
B. Attach bow shackle including rigging to crane fitting (2) located on the front of the mast section. It is important to tighten this shackle.



Then you need to tidy the rigging lines in readiness for erecting the mast.

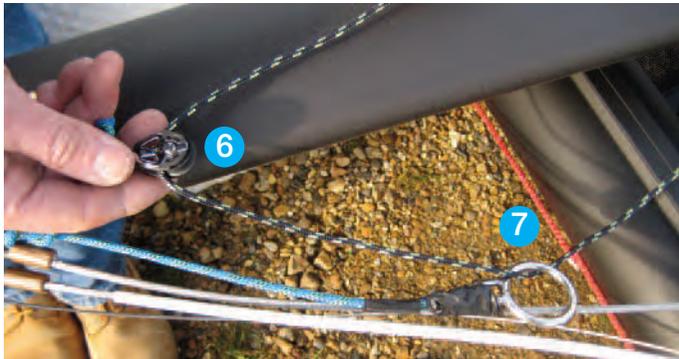
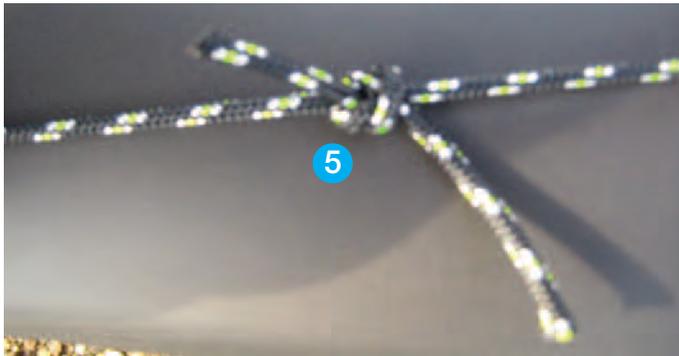
MAST continued

C. Attach the shroud wires (coated in white plastic) onto the chain plates on either side of the boat (3) Use the third hole from the bottom of the chain plates. (4) Then secure chain plates to the hull as shown.

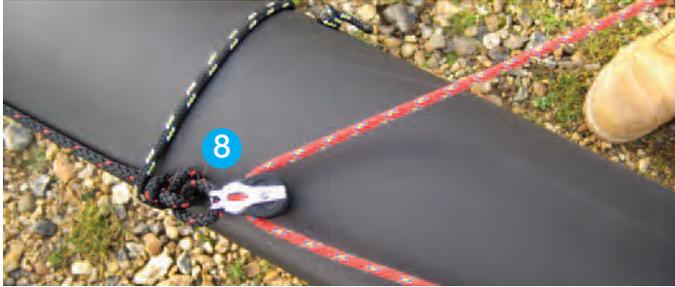


D. Lay trapeze wires to either side of the mast, so that they are roughly in the correct position ready to be attached once the mast is upright.

E. Next is the jib halyard, the jib halyard comes in two parts (5). Ensure one section is fed through ring (6) and small pulley (7) on forestay.



F. Then feed end of spinnaker halyard through the small pulley at the top of the mast (8).



G. Take spinnaker halyard to foot of mast tying ends together to create a loop.

H. Position mast so that the foot of the mast is on the ball joint on the front beam and secure in place with pin.



E. Attach striker bar (9) (front cross bar) between the hulls at front of boat.



ENSURE THAT THE STERN OF THE BOAT IS FACING INTO THE WIND. ENSURE THAT THE MAST IS CLEAR OF ANY OVERHEAD CABLES OR OBSTRUCTIONS!

Re-tidy all of the rigging. You are now ready to raise the mast. This is a two person job.

E. Person One (1) should be positioned towards the front of the boat holding the trapeze wires. Person Two (2) should support the top of the mast behind the boat and then walk mast forward until it is upright.



MAST continued

F. Once mast is vertical, person 2 can remove the pin from the ball joint allowing the mast to rotate freely.

G. Person 2 should then securely but loosely attach forestay to striker bar shackle. You can then remove the mast lock pin.



H. Now tighten forestay and re-attach to striker bar shackle.



TRAPEZE

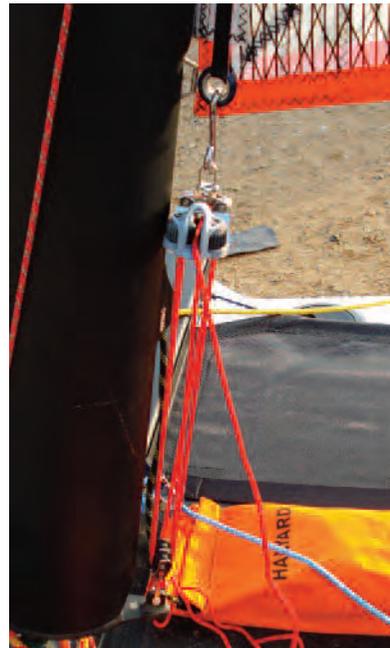
A. Attach shock cord and rope with adjustment stop to trapeze handle.

And feed through trapeze wire eye (1). Then take other end of cord. Feed under line to other side. Up through trapeze wire eyelet and handle as before.



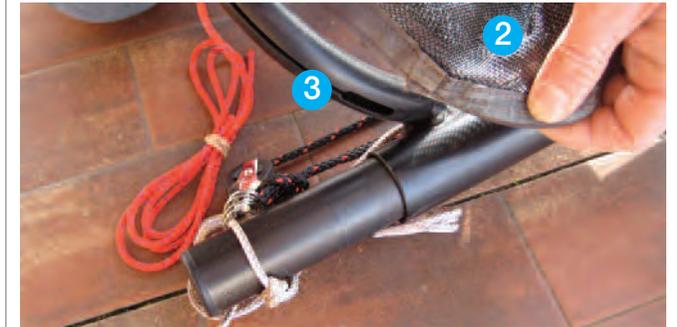
DOWNHAUL/ KICKER SYSTEM

You can now attach the downhaul system to the foot of the mast.



SPINNAKER KIT

A. Feed (2) spinnaker sock into (3) chute mouth groove. Feed around ring. Note, this is a snug fit.



SPINNAKER KIT continued

B. You are now ready to attach the spinnaker sock and pole to the boat.

Ensure sock is fed over the striker bar.



Attach velcro straps around spinnaker pole.

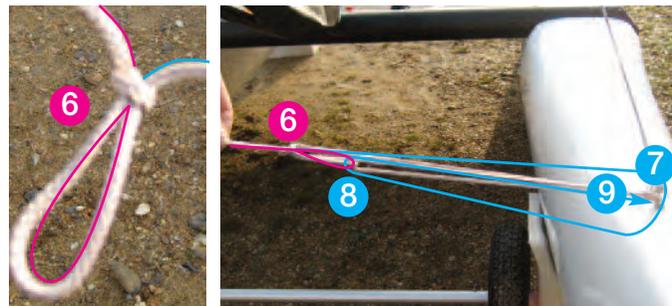


C. Then attach back of spinnaker sock around either side of the base of the mast.

(4) One line attaches to the mast foot. (5) The second line attaches through loop on front of trampoline (next to the capsizing line pocket).



D. Tie loop (6) in spinnaker pole bridle rope, (7) feed through eye on front hull by main bridle. (8) Take rope back through loop and then (9) tie off on eye. Repeat on other side and pull tight till there is a slight bend in the spinnaker pole.



E. (1) Take line from the chute mouth and (2) tie off on to the eye on the front of the hull.



SPINNAKER HALYARD

A. To secure one end of the spinnaker halyard, tie to bridle for time being.

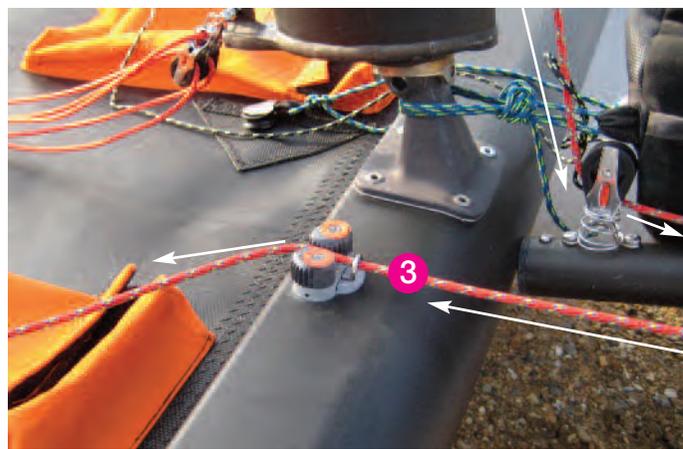
B. Take other end of spinnaker halyard down mast and through pulley on back of spinnaker pole running from back of boat forwards.



Remove the rope that is securing the double block to the spinnaker pole (this is for shipping purposes only).

SPINNAKER HALYARD continued

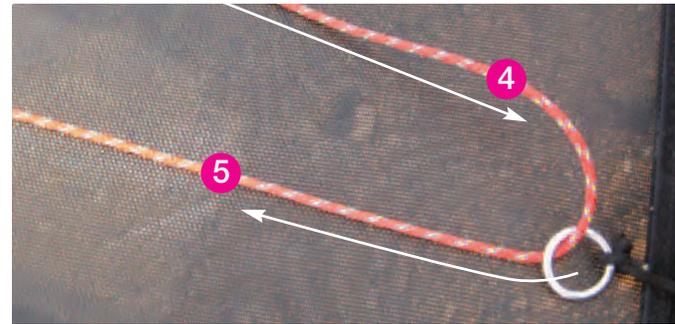
C. (1) Feed spinnaker halyard forward and (2) through double block and then (3) back to double cleat on front crossbeam aside mast foot.



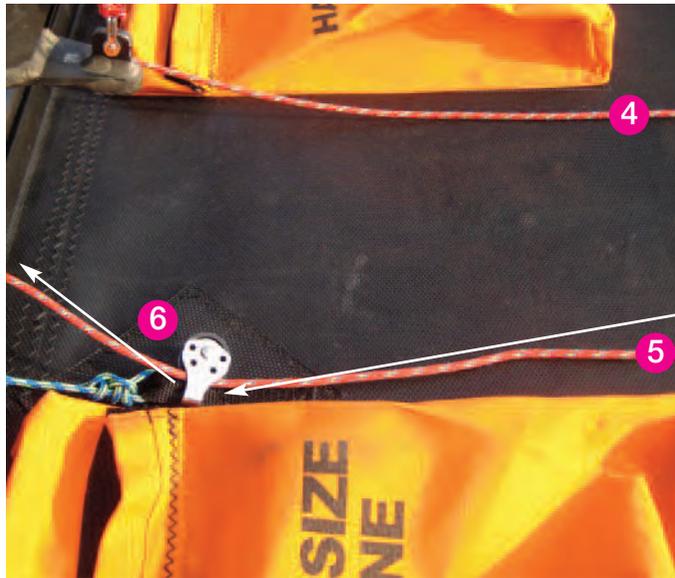
D. Attach ring on shockcord through back/ centre of trampoline and tie off on eyelet on back of rear crossbeam/ centre.



E. Feed spinnaker halyard (4) back along trampoline, through steel ring.



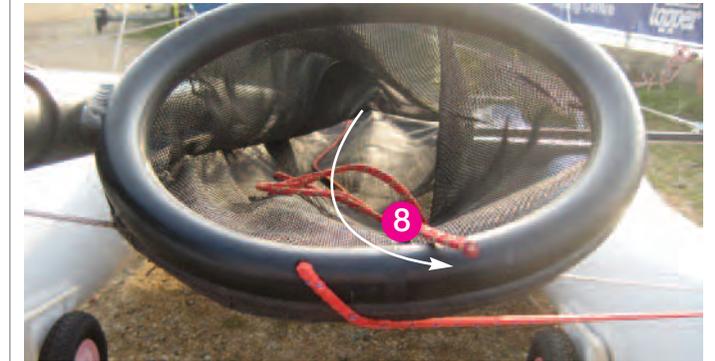
F. Then forward (5) to the guide pulley (6) on trampoline front (by capsize line pocket).



G. (7) Then feed spinnaker halyard into back of spinnaker sock.



H. (8) Feed end of spinnaker halyard through the spinnaker chute until the tail comes out the front of the chute. (Tip; it is easier to do this by fishing the spinnaker halyard out of the chute with a tiler arm or similar long object in order to feed it from the back of the chute to the front).



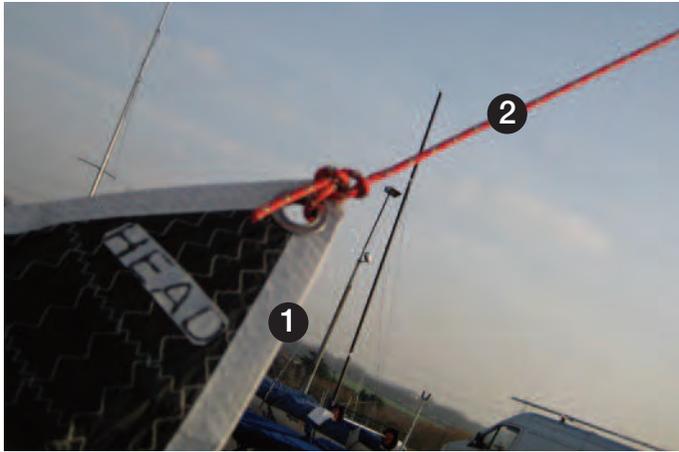
SPINNAKER SAIL

A. To attach spinnaker, tie (T) tack line (attached to spinnaker pole block) to 'Tack' of spinnaker sail with a bowline.



SPINNAKER SAIL continued

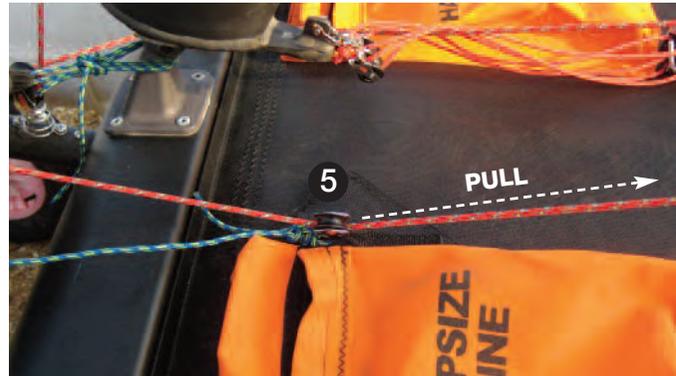
B. If you feed the front of the sail through your hands till you come to the 'Head' (1) of the spinnaker sail. Attach Head of sail to spinnaker halyard (2) coming from the top of the mast.



C. The spinnaker has two patches in the centre of the sail, pass the spinnaker halyard (end from the chute mouth) through the lower patch (3) (one with steel ring) then tie off onto other patch (4) (one that is cross taped) through the cross tapes with a bowline.



D. You can put sail back into the chute by pulling the spinnaker halyard from the guide block (5) on the trampoline.



E. Ensure that the 'Clew' of the sail does not disappear down the chute. It should remain poking out of the front of the chute. (Tip; it is helpful if a second person holds the Clew of the spinnaker sail at the front of teh chute whilst the first person pulls the rest of the sail back into the chute).



F. Attach spinnaker blocks to eyelets on side of hulls. Ensure rotation arrows on the block are facing in towards the centre of the boat.



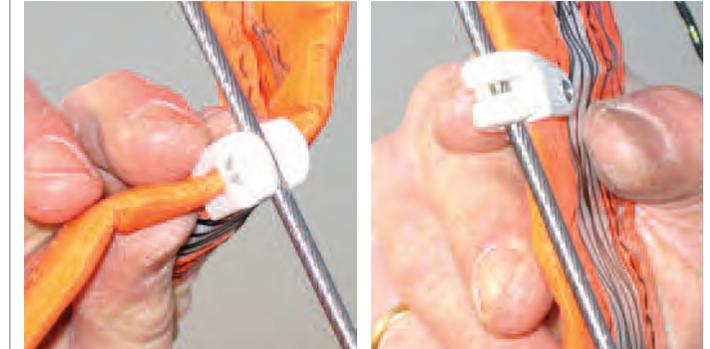
Feed spinnaker sheets through ratchet blocks and attach to the Clew of the spinnaker sail.

JIB

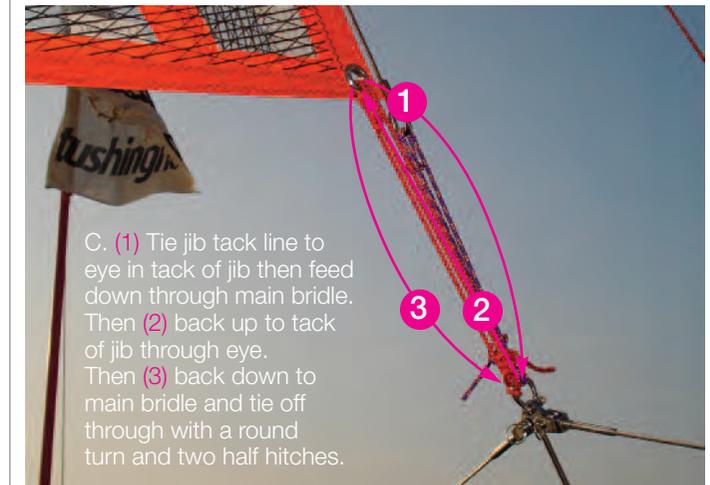
A. Tie jib halyard (H) to top of jib sail onto S hook.



B. Attach plastic hanks to forestay. Pull jib halyard to raise jib attaching hanks as you go.



When sail is fully raised ensure that the S hook is locked into the s/s ring at the top of the rigging.



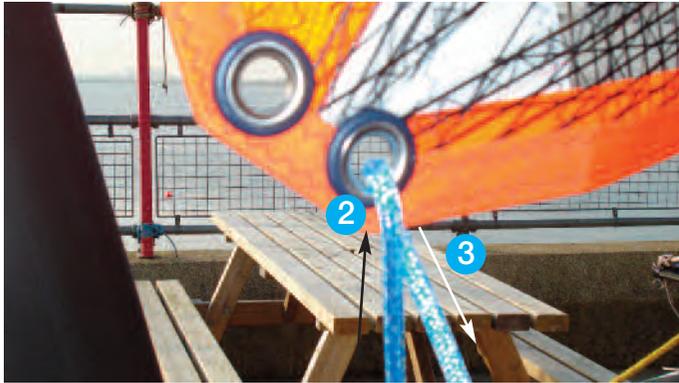
C. (1) Tie jib tack line to eye in tack of jib then feed down through main bridle. Then (2) back up to tack of jib through eye. Then (3) back down to main bridle and tie off through with a round turn and two half hitches.

JIB SHEETS

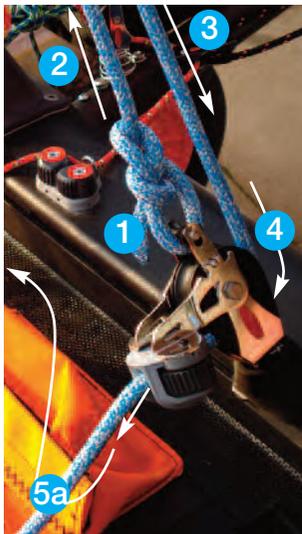
D. (1) Tie jib sheet onto jib block (located on front beam) using a bowline knot.



E. (2) Take jib sheet up to & through the lower eye in the jib sail, (3) down and...

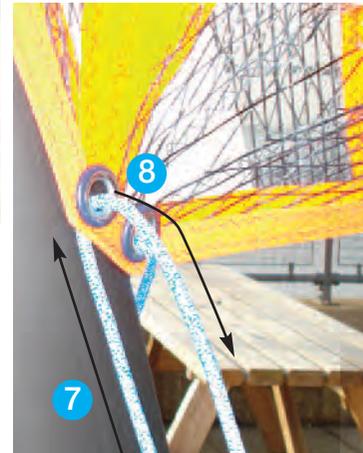
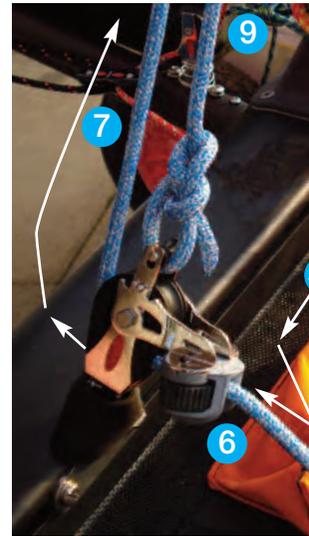


... (4) through pulley cleat, (5) ROUND BACK OF THE MAST (to the other side of the mast)...

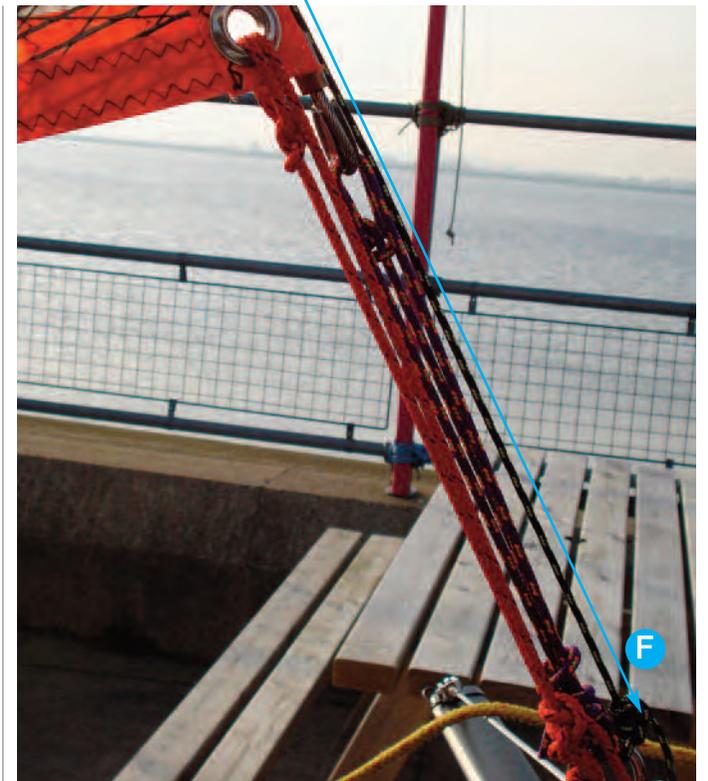


... (6) through the other pulley cleat (on the other side of the mast)...

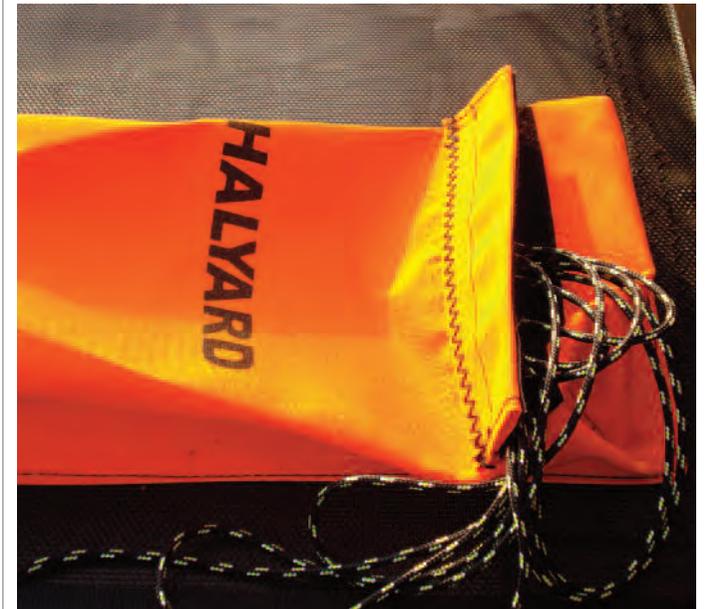
then (7) up to and (8) through top eyelet in jib sail and then down to tie off on jib block with a bowline (9).



F. Untie tail end of jib halyard and tie one end off loosely onto the bridle eye (F).



G. Store the remaining tail end in the halyard pocket (located on the trampoline).



MAINSAIL

A. Tie a stopper knot in the end of the main halyard, take round turn through eye at head of sail and pull stopper knot tight to head of sail.



B. Hoist mainsail, feed sail into groove in mast and then raise mainsail by pulling main halyard.

MAINSHEET

A. Attach mainsheet rope/ block to traveller block on rear beam with the shackle.



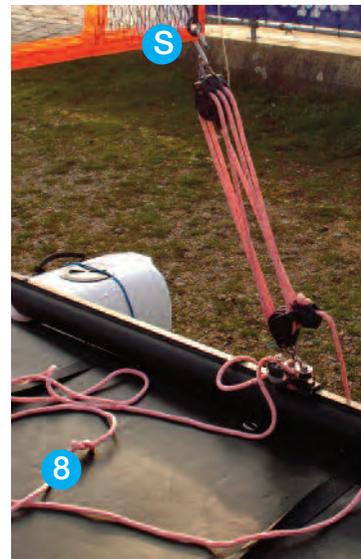
B. Feed tail end through cleat on carriage and then through double pulley block.



C. Then feed through eyelet on back/centre of rear beam. Tie off with a figure of eight knot.



D. Then attach mainsheet system to mainsail with S hook (S).



Tip; Tie two figure of eight knots (8) in the mainsheet approximately 1.5 metres from the block to prevent the traveller car sliding into each side of the rear beam track when sailing.

CAPSIZE LINE

Tie round mast foot with a bowline, and store in Capsize Line Pocket. You may wish to tie figure of eight knots along the line at evenly spaced intervals (8). These will help as gripping points.

