# RSCA774 Rigging Manual V3



PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.



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#### 1. INTRODUCTION

Congratulations on the purchase of your new RS Cat 14 and thank you for choosing an RS product. We are confident that you will have many hours of great sailing and racing in this truly excellent design.

The RS Cat 14 is an exciting boat to sail and offers fantastic performance. This manual has been compiled to help you to gain the maximum enjoyment from your RS Cat 14, in a safe manner. It contains details of the craft, the equipment supplied or fitted, its systems, and information on its safe operation and maintenance. Please read this manual carefully and be sure that you understand its contents before using your RS Cat 14.

This manual will not instruct you in boating safety or seamanship. If this is your first boat, or if you are changing to a type of craft that you are not familiar with, for your own safety and comfort, please ensure that you have adequate experience before assuming command of the craft. If you are unsure, RS, your RS dealer, or your national sailing federation – for example, the Royal Yachting Association – will be able to advise you of a local sailing school, or a competent instructor.

RS Sailing highly recommends using RS supplied equipment for usage and storing of your craft. Deviation from using RS supplied equipment, such as sails and storage solutions, will require consultation with RS Sailing. Failure to do so may affect Warranty claims and Goodwill outcomes.

Please keep this Rigging guide in a secure place and hand it over to the new owner if you sell the boat.

Please also see the Owners Manual for the technical summary and Capsize recovery technique. You should familiarise yourself with the procedure before venturing afloat. The risks associated with capsizing a catamaran include: Entrapment under the upturned hull and if it is windy, separation of the crew from the craft. Removal of a mast head flotation device will increase the risk of inversion and entrapment.

#### For further information, spares, and accessories, please contact:

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Tel.: +44(0)1794 526760 Fax: +44(0)1794 278418

E-mail: www.info@rssailing.com

For details on your local RS dealer, please visit www.rssailing.com

#### 2. **COMMISSIONING**

#### 2.1 Preparation

Your RS Cat 14 comes complete with all the components necessary to take the boat sailing. In order to commission it, you will need the following tools:

- Pliers or a shackle key
- Small Pozidrive screwdriver
- 17mm Spanner
- PVC electrician's tape
- · Sharp knife or scissors

Whilst your RS Cat 14 has been carefully prepared, it is important that new owners should check that shackles and knots are tight. This is especially important when the boat is new, as travelling can loosen seemingly tight fittings and knots. It is also important to check such items prior to sailing regularly. Also regularly check the beam bolts are tight.

The Cat14 shares its Rope Pack with the CAT16 and may be labelled as such. The lengths cater for all sailing circumstances i.e single handed sailing on the trapeze to fully crewed sitting on the boat. If you find the lines excessively long please trim them to your requirements. We recommend using the boat a few times and then make any adjustment.

DO NOT use a knife or other sharp object to cut through packaging containing parts - you may damage the contents!

#### 2.2 Unpacking

Having unpacked your RS Cat 14, you should check that you have all of the items listed on the contents pages before throwing away any of the packing, as there may be some small items still wrapped.

#### **RSCAT14** 3.1 - Components List

RSCAT14 3.1 - Components List	
	Hulls x 2
	Rear beam x 1
	Front beam x 1
	① Bolt x 2 ② Bolt x 2 ③ Bolt x 2 ④ Bolt x 2
	Large metal washers x 8 Large nylon washers x 4 Small nylon washers x 8
	Tramp set x 1 Side tramp ties x 2
	6mm x 1860mm batten x 1
	6mm x 1500mm batten x 1
	8mm x 1330mm batten x 2
	Cleat x 2
	Righting line x1
	Shrouds x 2
	Forestay x 1
	Top rigging shackle x 1
SA BA	Shroud verniers x 2 Shroud covers x 2
	Shroud eyebolts x 2
	Beam recess bar x 8
	Shroud recess bar x 2
	Forestay ring x 1

#### **RSCAT14** 3.1 - Components List

<b>R3</b> GAII <b>14</b> 3.1 - Components List	
	Mast x 1
	Toestrap ties x2
	Forestay line x 1
	Rear tramp ties x 2
	Downhaul line x 1
	Downhaul blocks x 2
	Mainsheet blocks x 2
	Mainsheet x 1
elja ————————————————————————————————————	Com bar x 1
	Tiller extension x 1
	Foil set x 1
RSCAT14	Mainsail x 1

## **RSCAT14** 3.1 - Components List

M Э GAII 17 3.1 - Components List	
<b>3</b> .	Striker bar x 1
	Striker bar shackle x 2
	Forestay bridle wires S Spec. x 2
	Jib x 1
	Jib halyard x 1
	Jib sheets x 1
	Trapeze wires x 2
	Trapeze elastic x 2
	Large 8mm bobble x 2 (jib tack, jib clew)
	D12 3mm x 30cm x 2 (jib tack, jib clew)
	Low friction ring x 1
	Large spring x1 (mainsheet block)
	Plastic ring (trapeze elastic) x 2
	Tie for plastic ring (trapeze elastic) x 2

### **RSCAT14** 3.2 - Additional Components for Cat 14 XL Only

3.2 - Additional Components for Oat 14	
	Spinnaker halyard x 1
	Spinnaker sheet turning block x 2
	Spin sheet turning block ties x 2
	Spinnaker halyard turning block x 3
	Ratchet block x 2
My My	Spinnaker chute bar x 1
	Spinnaker sheet x 1
	Tack line x 1
	Spinnaker tack line block
	Chute x 1
	Front chute tie long x 1 Front chute tie medium x 2 Front chute tie short x 2
	Spinnaker pole stays x 2
đ	Spinnaker pole stay shackle x 2
	Spinnaker pole stay lashings x 2
	Small rope bobble x 8 (6 x spin halyard mouth, 1 x spin downhaul, 1 x tack line)  Large rope bobble x 3 (1 x spin halyard, 1 x spin downhaul, 1 x chute attachment)
	Rear halyard takeaway elastic x 1
	27mm swivel cleat x 1
	Screws for spinlock x 3
	Large plastic ring x 1
	Spinnaker x 1

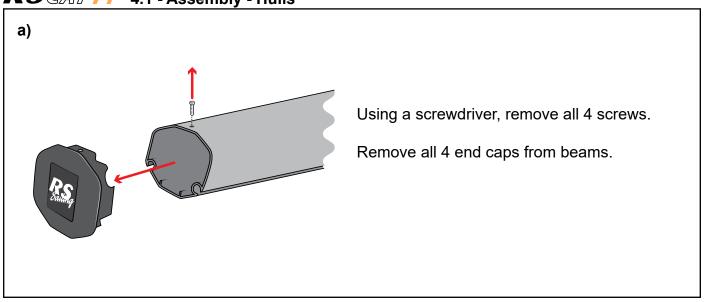


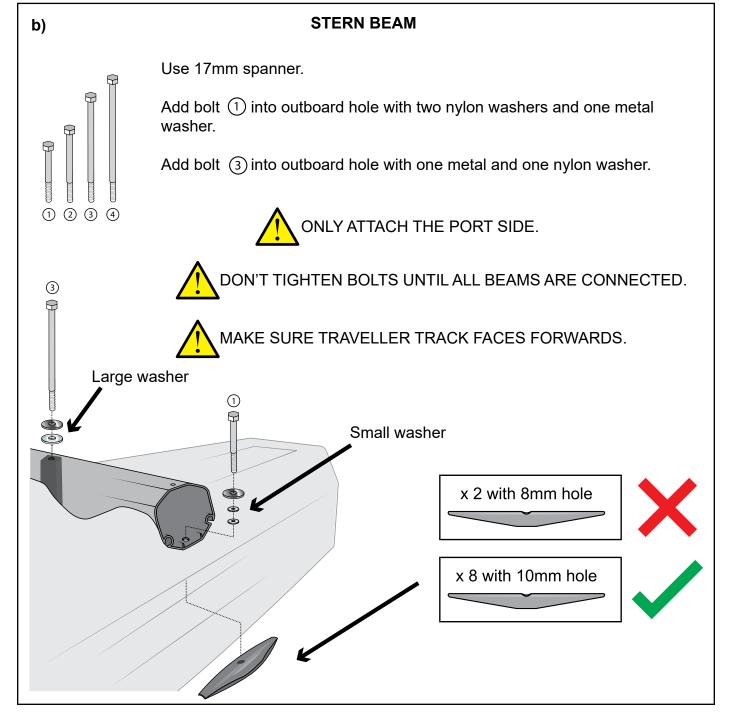
# 4.1 Assembly Guide Hulls

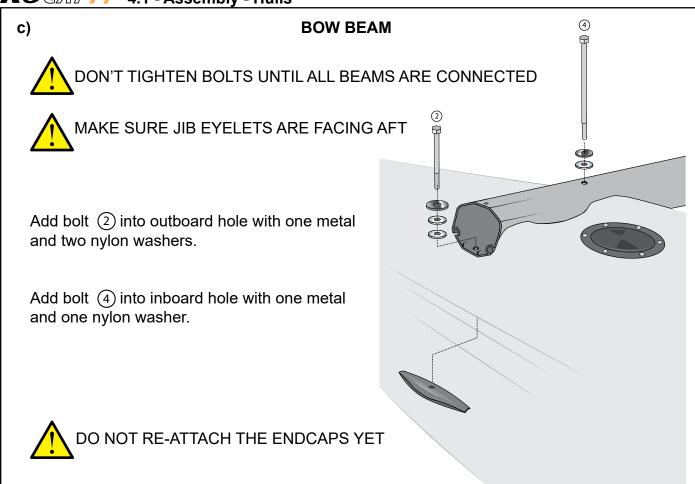


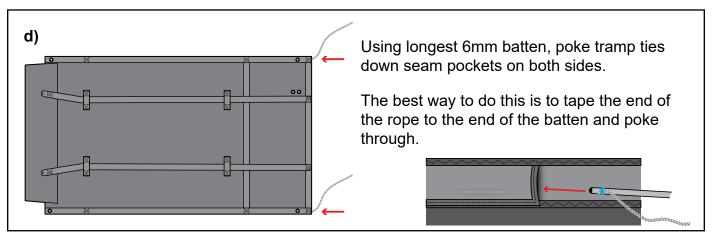
PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.

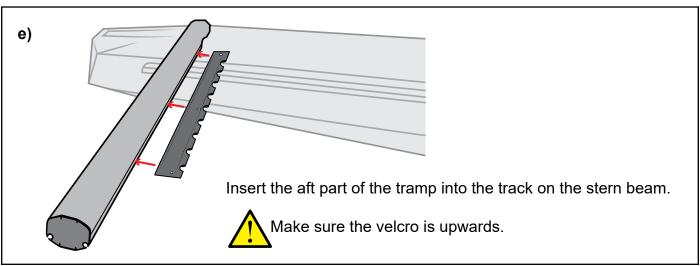






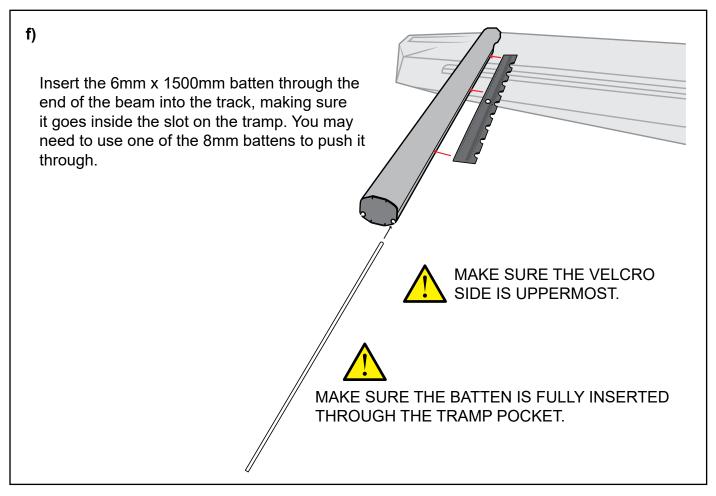


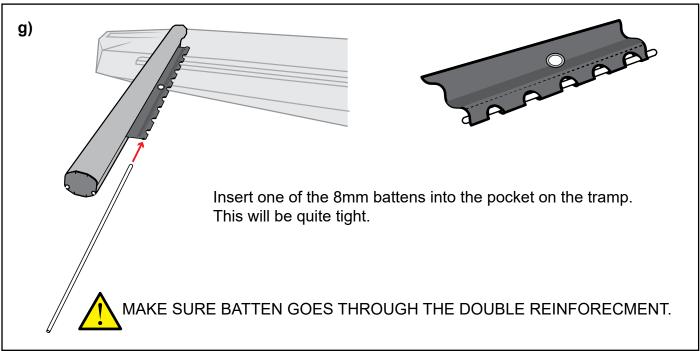


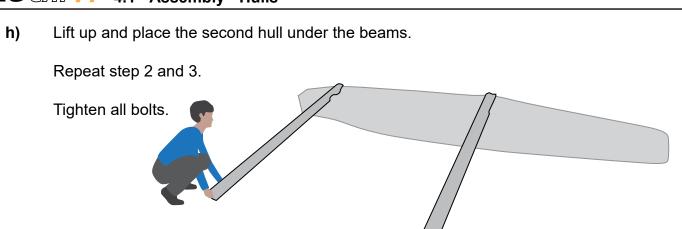


# **RS**CAT14 4.1 - Assembly - Hulls

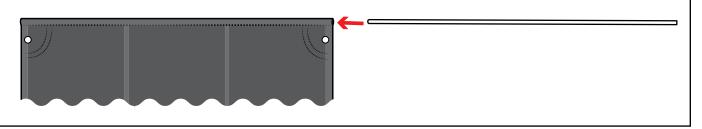
	8mm battens	1330mm
There are four battens for the tramp.		1500mm
	6mm battens	1860mm

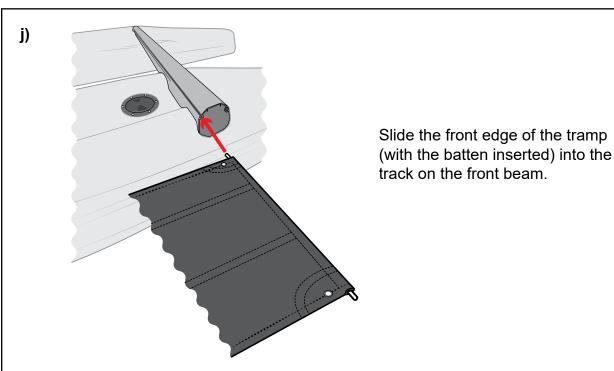






i) Push the 6mm x 1860mm batten through the reinforcement pocket in the front edge of the tramp.







MAKE SURE THE TRAMP IS THE RIGHT WAY UP IE. THE VELCRO ON THE REAR EDGE IS DOWN.

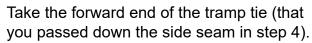


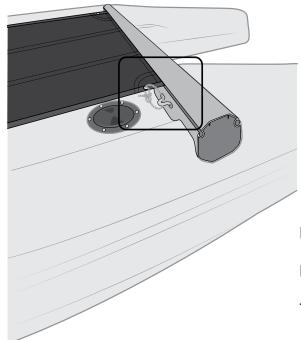
MAKE SURE THE BATTEN GOES THROUGH THE ENTIRE POCKET.

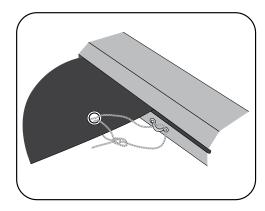


MAKE SURE TRAMP IS IN THE MIDDLE OF THE BEAM.

k)







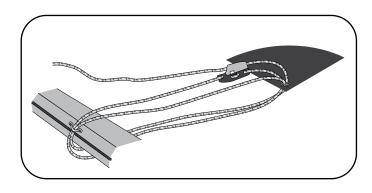
Pass the tramp tie through the front tramp cringle.

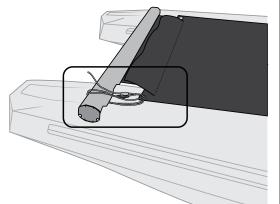
Pass the tramp tie through the eyelet.

Tie knot #2 through the cringle.

Repeat on other side.







Pass rope through rear tramp cringle.

Pass rope over beam and down through eyelet, then back under beam.

Pass rope through cringle.

Pass rope through cleat base (making sure cleat is tight to cringle).

Pass rope over beam and through eyelet, then back under beam.

Pass rope through cringle.

Pass rope through cleat.

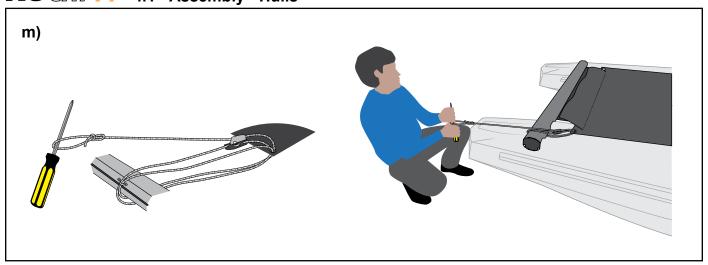


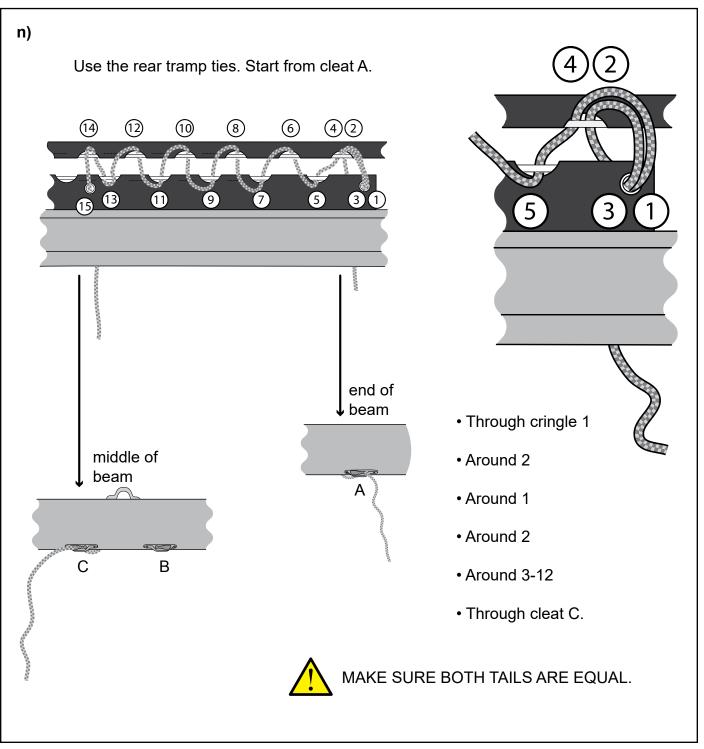
DON'T TIGHTEN UNTIL BOTH SIDES ARE DONE.

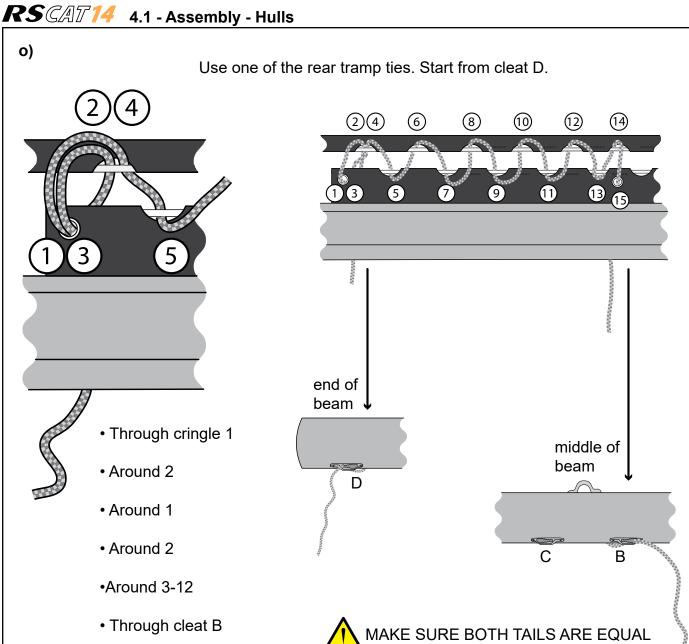


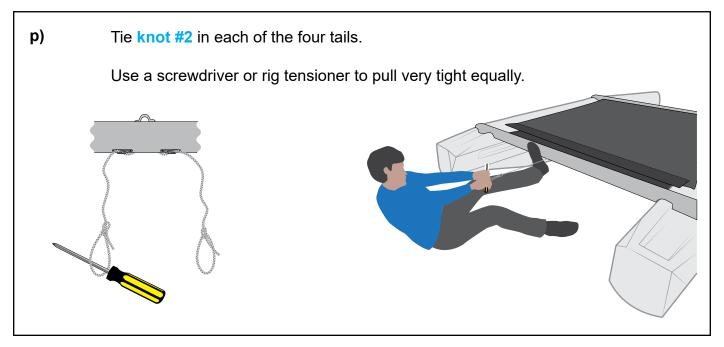
PULL ON BOTH SIDES EVENLY OR TRAMP WILL BE PULLED OFF CENTRE.

# **RSCAT14** 4.1 - Assembly - Hulls



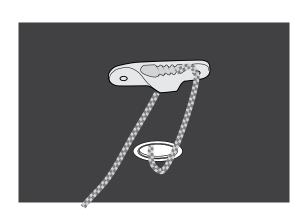


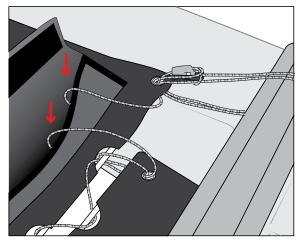




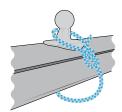
q)

Tidy up tails by passing them through the cringle and into the velcro pocket.



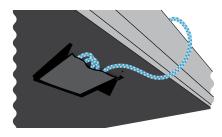


r)



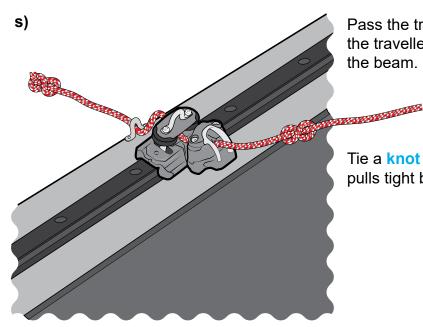
Tie the righting line around the mast step with knot #2.

Stow the other end in the pocket under the tramp.





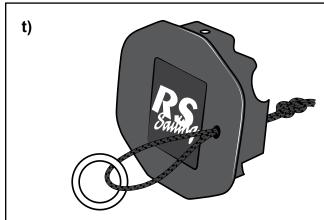
YOU MUST NOT GO SAILING WITHOUT A RIGHTING LINE FITTED.



Pass the traveller line through the cleat on the traveller car and through the eyelet on the beam.

Tie a knot #3 knot in the tail so that the rope pulls tight before the car hits the end stop.

## **RS**CAT14 4.1 - Assembly - Hulls

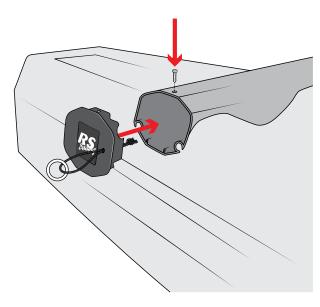


Pass one end of the tie through the plastic ring and then pass both ends through the hole in the front beam endcap.

Tie knot #3 in the end.

Repeat on the other side of the boat.

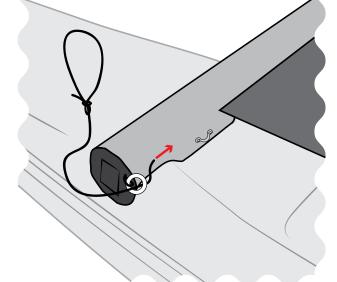




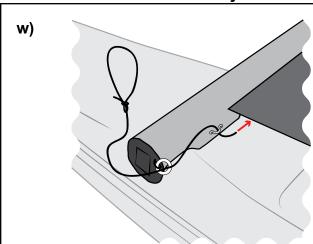
Replace the endcaps and screws.

V) Tie knot #2 in one end of the trapeze elastic. This will be for the crew's trapeze.

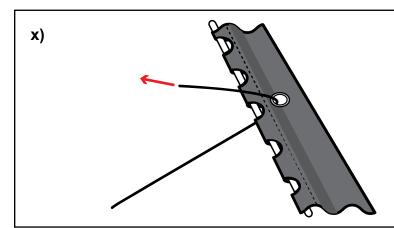
Feed the other end through the plastic ring at one end of the beam.



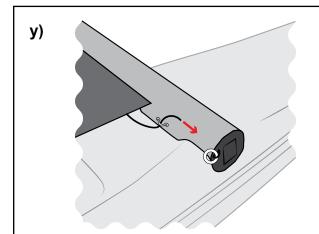
# **RS**CAT 14 4.1 - Assembly - Hulls



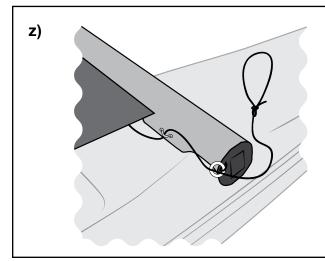
Feed the end down through the eyelet on the aft face of the beam and down under the tramp.



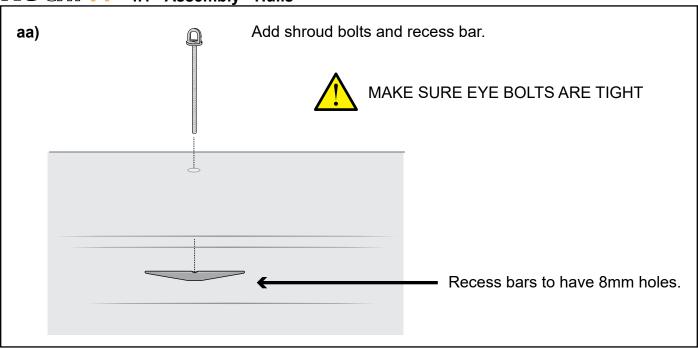
Pass the elastic back to the transom and through the cringle at the back of the tramp.

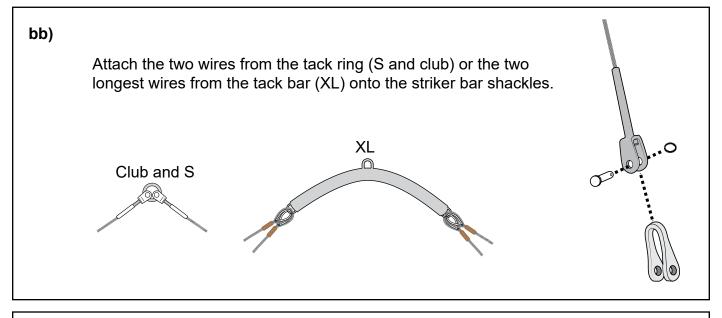


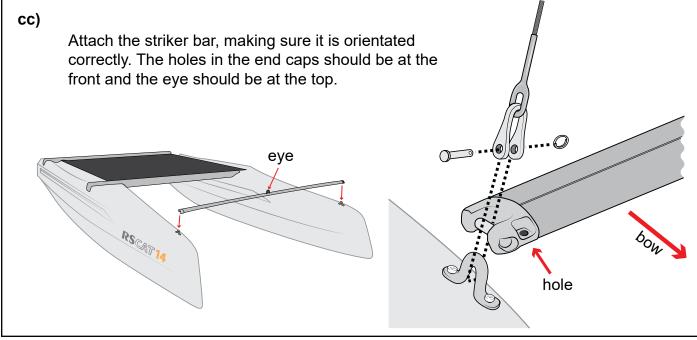
Pass the elastic back under the tramp to the opposite side of the boat and up through the eyelet on the aft face of the beam (mirroring the process from the other side of the boat).



Pass the elastic through the plastic ring at the end of the beam and tie **knot #2** in the end.







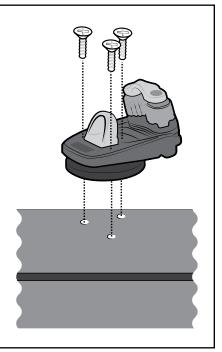
dd)

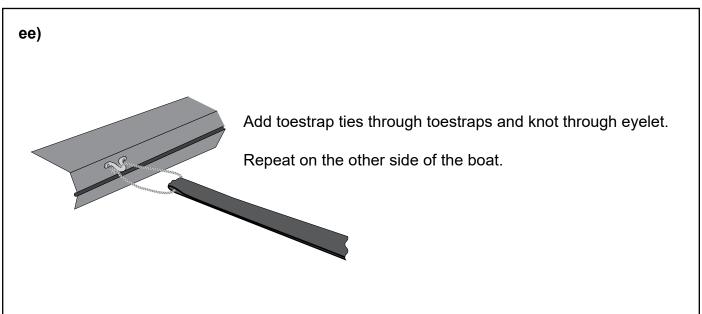
#### **XL SPEC ONLY**

Remove plastic inserts from front beam.

Add the spinnaker cleat using the screws provided. You will need to rotate the top of the cleat to access the holes in the base.

If fitted, remove any screws that may restrict 360° rotation.







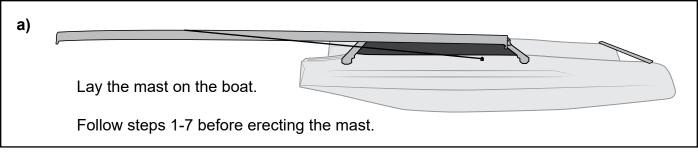
# 4.2 Assembly Guide Mast

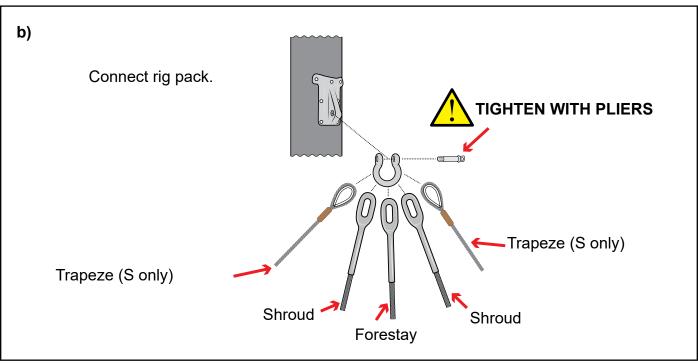


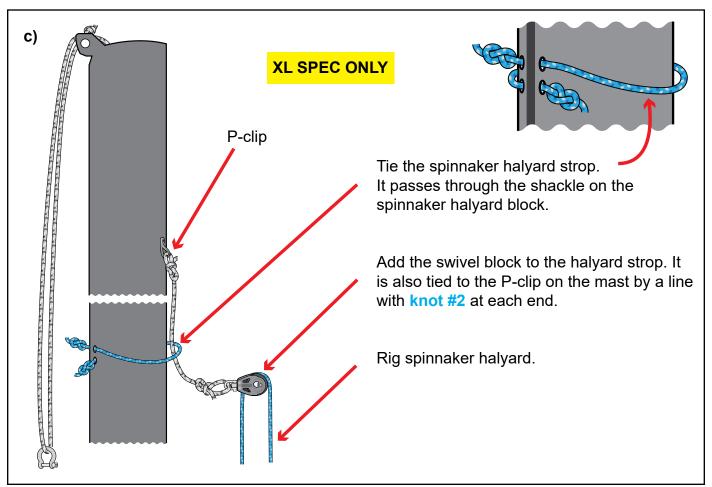
PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.

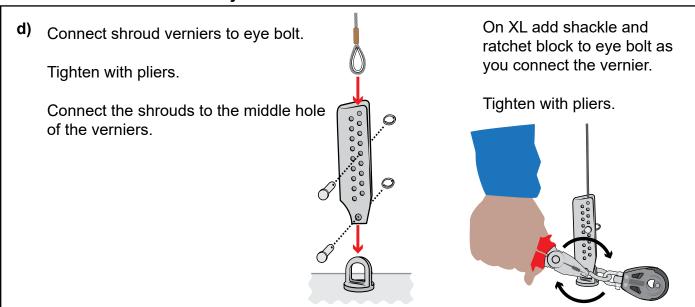


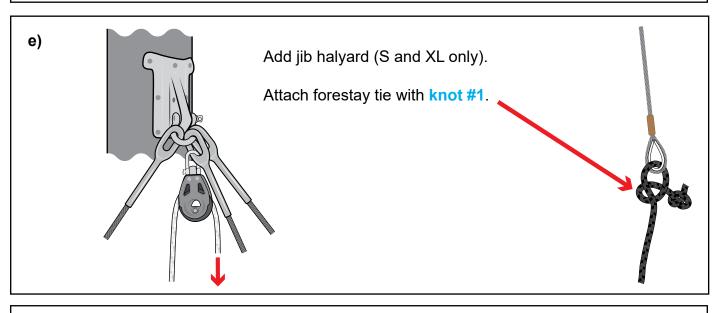
## **RSCAT14** 4.2 - Assembly - Mast

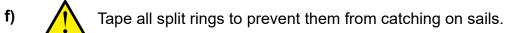


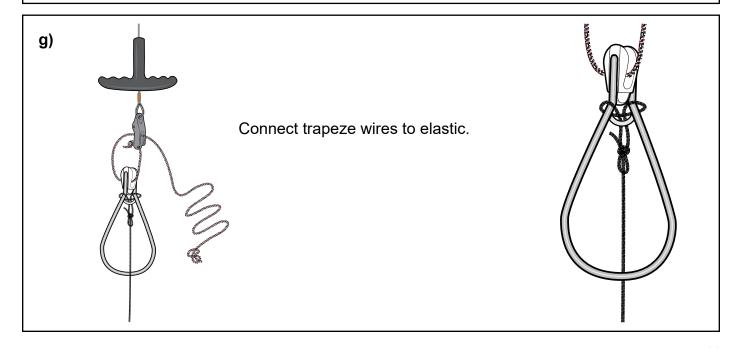








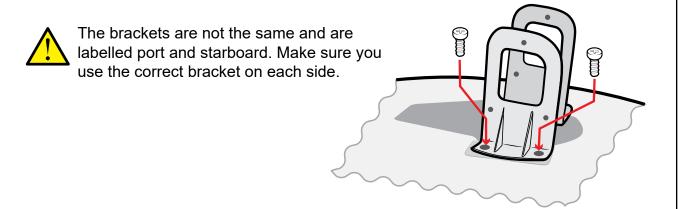




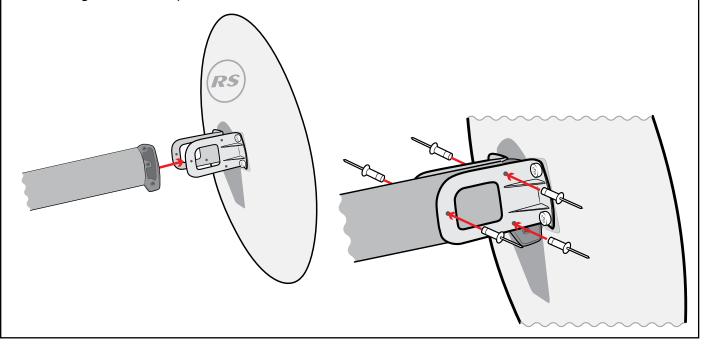
#### h) Attaching the Masthead Float

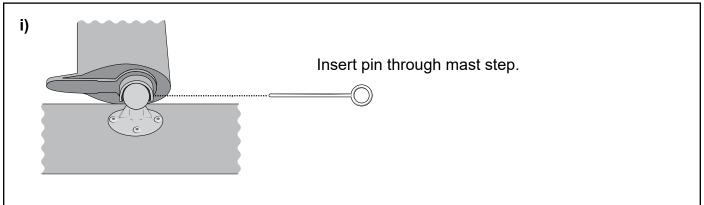
The fixed masthead float must be fitted before stepping the mast in the boat.

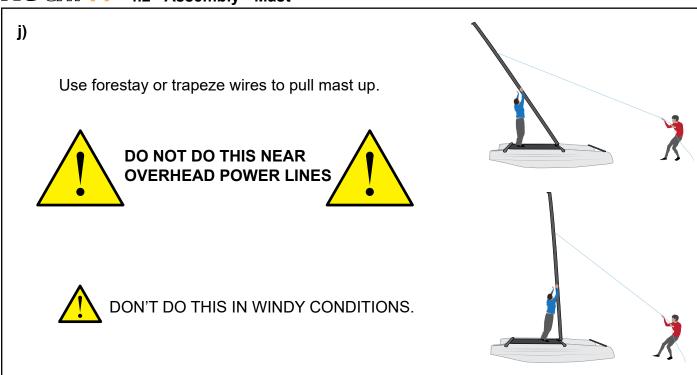
• Attach the bracket to the masthead float using the four bolts provided.

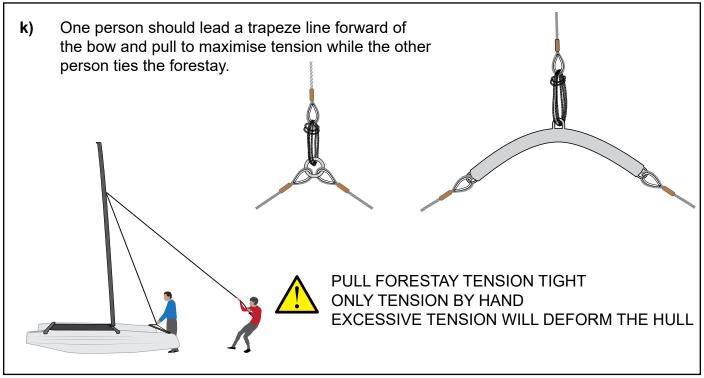


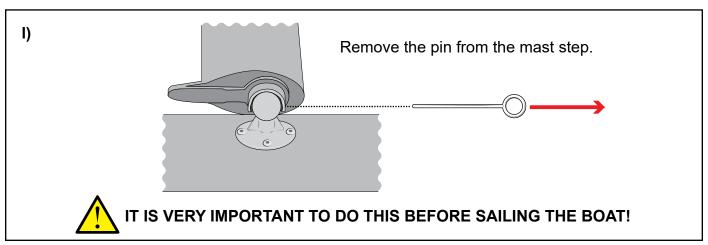
• Make sure you have lined up the up the holes on the bracket and mast, then attach it using the 6 rivets provided.











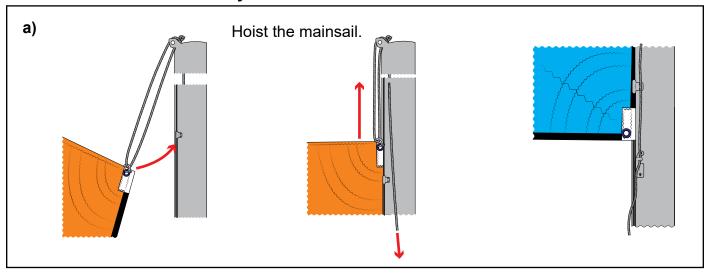


# 4.3 Assembly Guide Sails



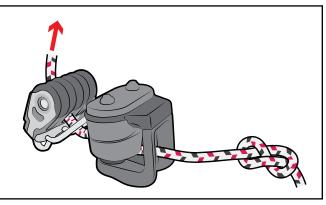
PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.





b)
Locate the downhaul and downhaul blocks in the pack.

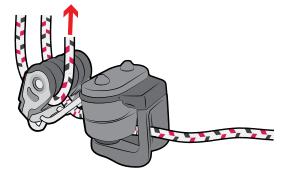
Tie **knot #3** in one end of the rope and thread the other end through the bottom downhaul block as shown.



Pass the tail through the top downhaul block as shown.



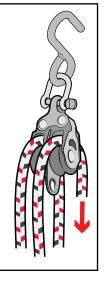
Pass the end back through the bottom downhaul block as shown.



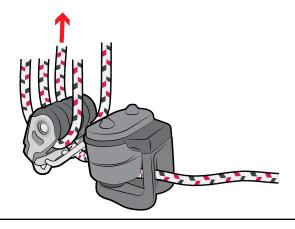
e)

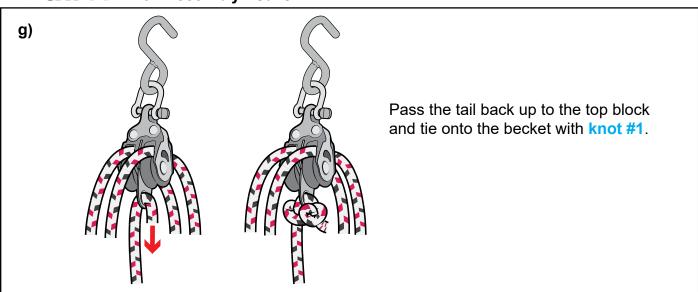
c)

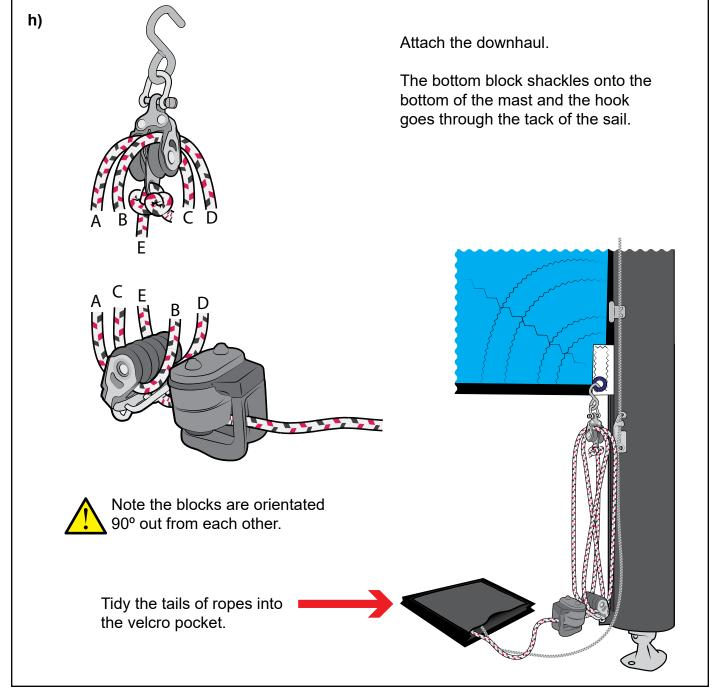
Pass the tail back through the top block as shown.



f) Pass the tail back through the bottom block as shown.



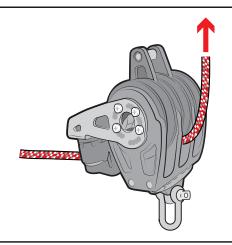




i)

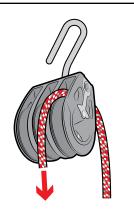
Locate the mainsheet and mainsheet blocks in the pack.

Thread the mainsheet through the bottom mainsheet block as shown.



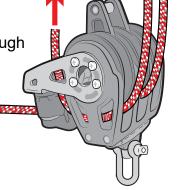
j)

Pass the other end through the top mainsheet block as shown.



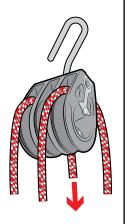
k)

Pass the end back through the bottom mainsheet block as shown.



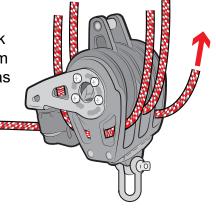
I)

Pass the end back through the top mainsheet block as shown.



m)

Pass the end back through the bottom mainsheet block as shown.



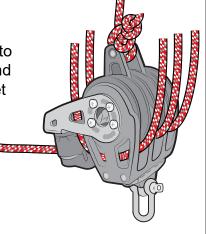
n)

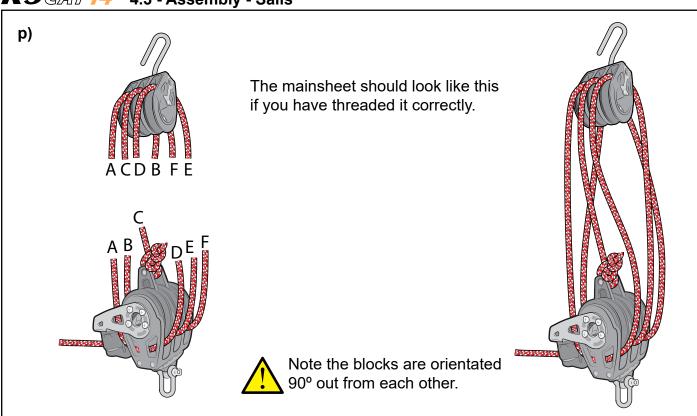
Pass the end back through the top mainsheet block as shown.

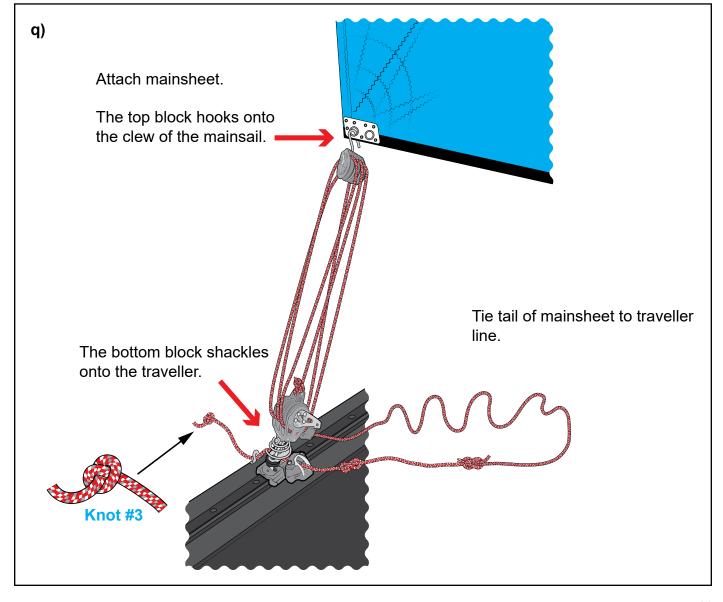


o)

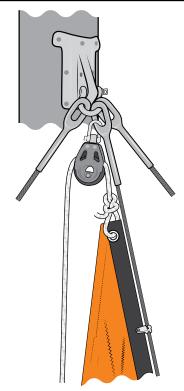
Pass the end back to the bottom block and tie it onto the becket with knot #1.







r)



#### **CAT 14 S SPEC ONLY**

Tie the jib halyard to the cringle at the top of the jib.

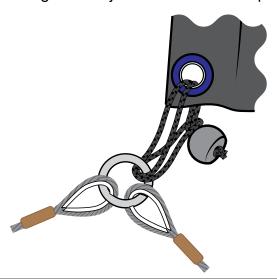
Attach the hanks onto the forestay and hoist jib by pulling on halyard.

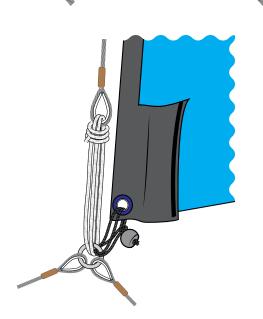
#### s) CAT 14 S SPEC ONLY

• Locate jib tack line and plastic bobble.



- Loop the tack line twice through the metal ring (which forestay is attached to - not shown here), add the plastic bobble and tie knot #4 in the ends.
- Take a loop of the tack line and pass it through the cringle in the jib tack and over the plastic bobble.





t)

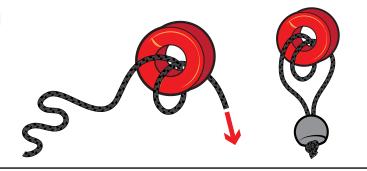
Pull on jib halyard tension then cleat it on the horn cleat on the side of the mast.



u) Locate the low friction ring, jib clew tie and plastic bobble in the Cat 14 S pack.

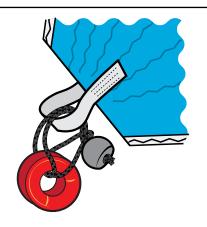


V) Take one end of the jib clew tie and loop it through the ring as shown, then add the plastic bobble on the end and tie a stopper knot.



w)

Take a loop of the clew tie and pass it through the webbing loop on the clew of the sail and over the plastic bobble.



x)

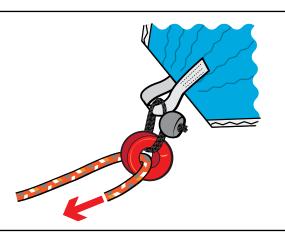


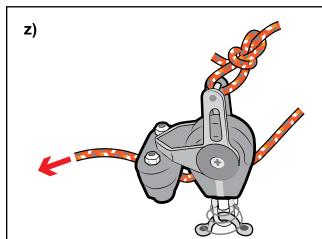
Tie one end of the jib sheet to the becket on top of the port Jib sheet block with **knot #2**.



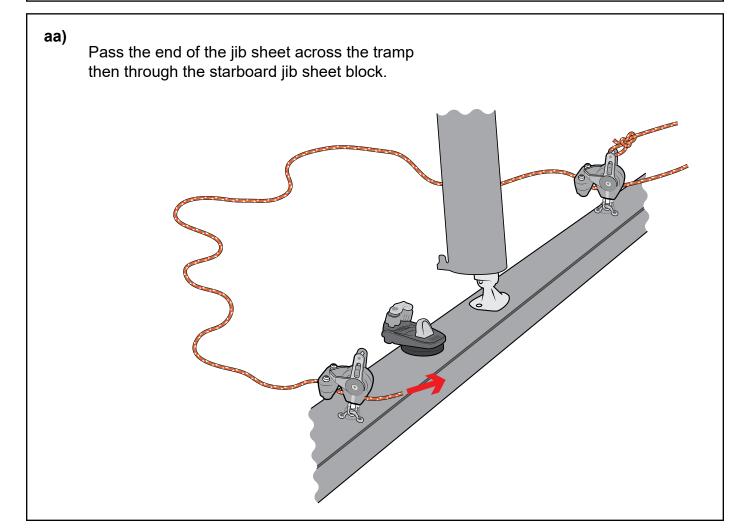
y)

Pass the other end through the low friction ring which you added to the jib clew in **step w**.

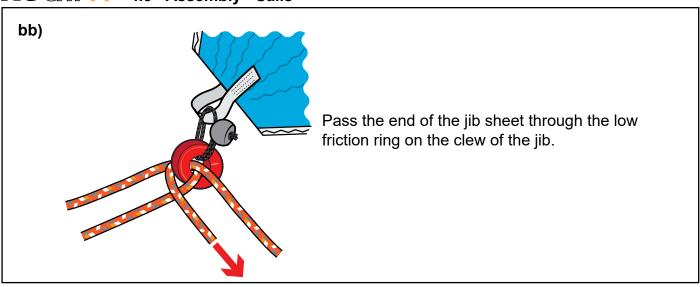


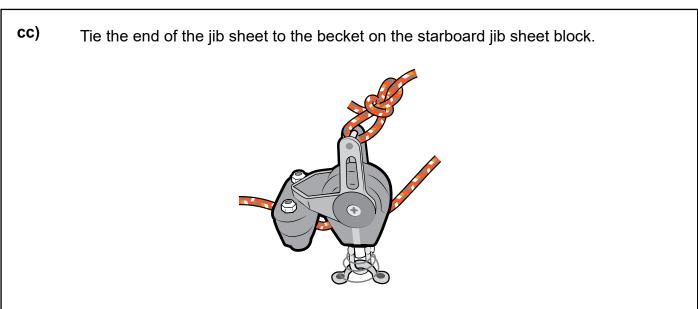


Pass the end of the jib sheet through the port jib sheet block.



## **RSCAT14** 4.3 - Assembly - Sails







# 4.4 Assembly Guide Spinnaker

Cat 14 XL only

Note: Rope supplied is sufficient to cater for all sailing circumstances i.e. single handed sailing on the trapeze to fully crewed sitting on the boat. Rope lengths can be shortened as required.



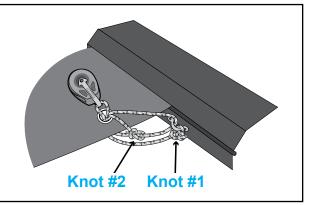
PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.



### RSCAT14 4.4 - Assembly - Spinnaker System

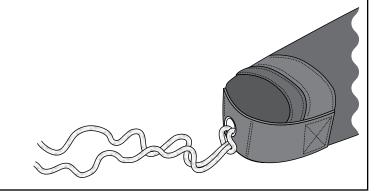
a)

Tie the turning blocks to the tramp.



b)

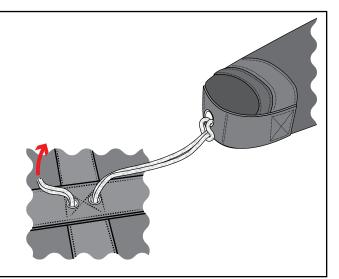
Locate the chute tie and attach to the chute with **knot** #6. Make sure the tails are of equal length.



c)

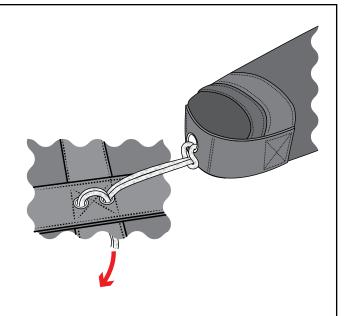
There are two cringles towards the port side of the tramp, just aft of where the chute ends.

Pass the two ends of the chute tie down through the forward cringle in the tramp and up through the aft one.



d)

Pass both ends back down through the forward cringle.

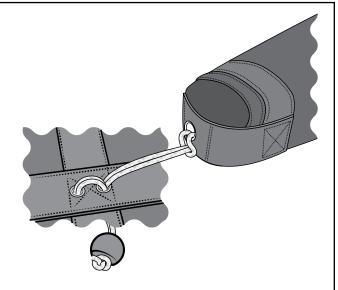




e)

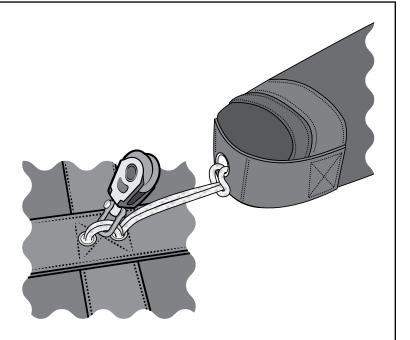
Pass both tails through the plastic bobble and tie off.

Wrap a piece of electrical tape around the rope end to reduce its chance of fraying when pushing it through the bobble.

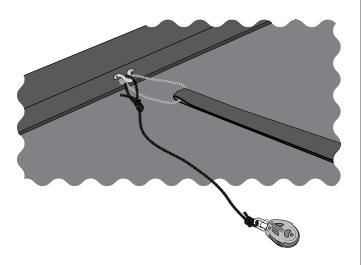


f)

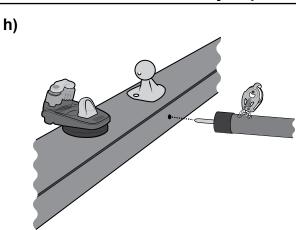
Shackle downhaul block onto the rope loop which you have formed between the two cringles.



g) Attach the spinnaker takeaway block with the elastic onto the rear starboard toestrap. Two Spinnaker takeaways are supplied in the rope pack - This is the shorter one.



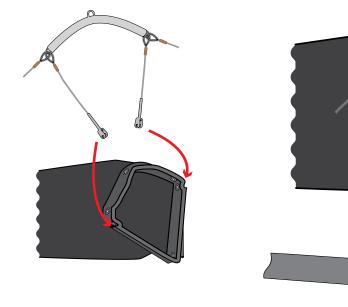


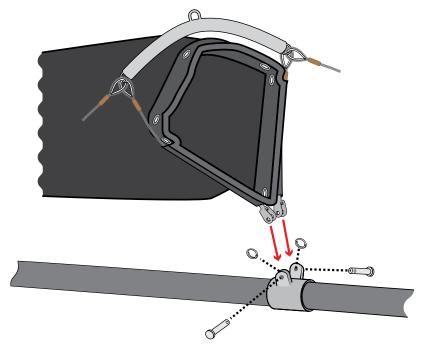


Remove the plastic cap from front beam.

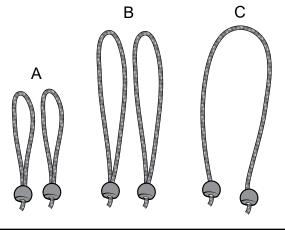
Insert spinnaker pole.

i) Pass the two short wires from the tack bar through the seam pockets on both sides of the spinnaker chute and attach to pole using the clevis pins and split rings.





j) There are four rope hoops and one rope with plastic bobbles provided with the spinnaker pack.



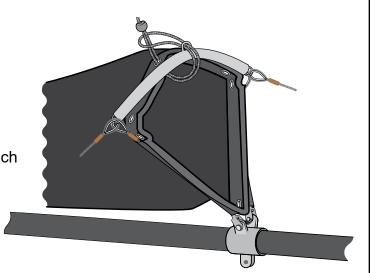


k)

Use rope loop B.

Pass the loop through one of the middle cringles in the spinnaker chute, under the tack bar, back through the hoop and over the plastic bobble as shown. (It will be much tighter than shown here).

Repeat on the other side.



I)

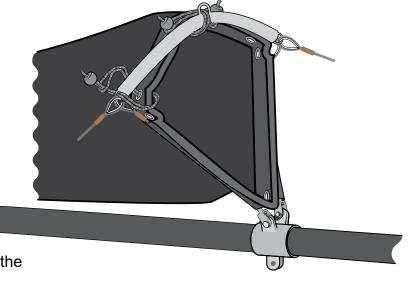
Use rope loop A.

Pass the loop through the tack bar from the rear.

Pass the rope through the upper cringle in the side of the spinnaker chute.

Pass the rope loop over the top of the plastic bobble.

Repeat on the other side.

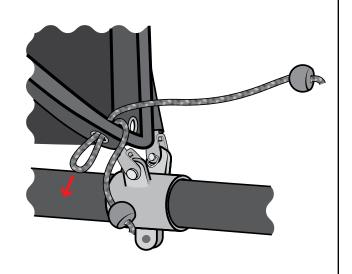


m)

Use rope C.

Form a loop in one end.

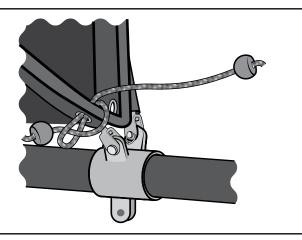
Pass this loop through one of the lower cringles on the spinnaker chute.





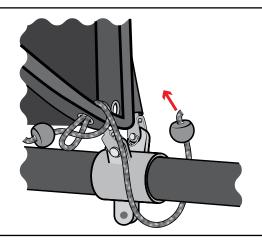
n)

Pass this loop over the plastic bobble on the shorter end.



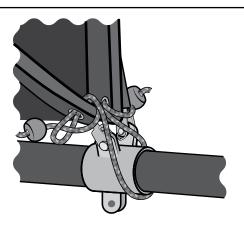
o)

Pass the other end of the rope underneath the spinnaker pole.



p)

Repeat step 11-12 on the other side.



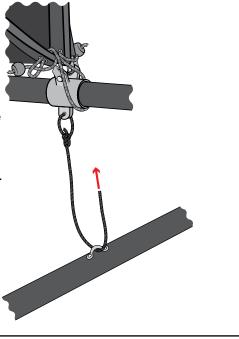
q) Attach the two spinnaker pole stays. First fit the t-terminal into the pole, then lash the inboard end onto the shackle.

r)

Use the spinnaker pole to striker bar tie.

Tie **knot #2** to the eye on the bottom of the spinnaker pole below the mouth of the spinnaker chute.

Pass the rope through the eye on the top of the striker bar.

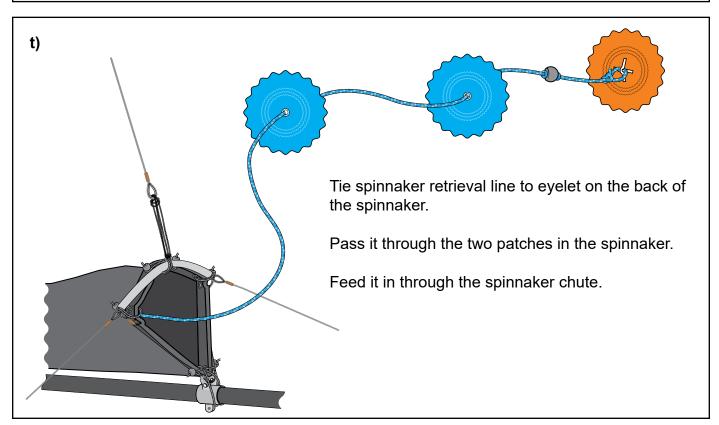


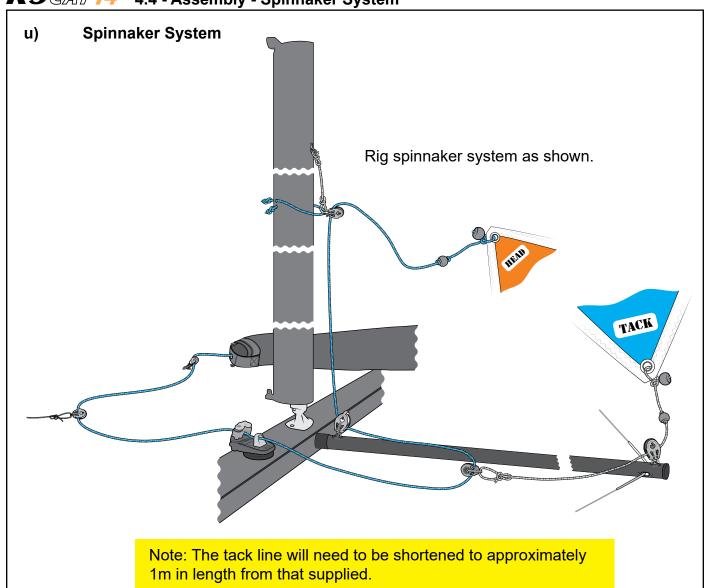
s)

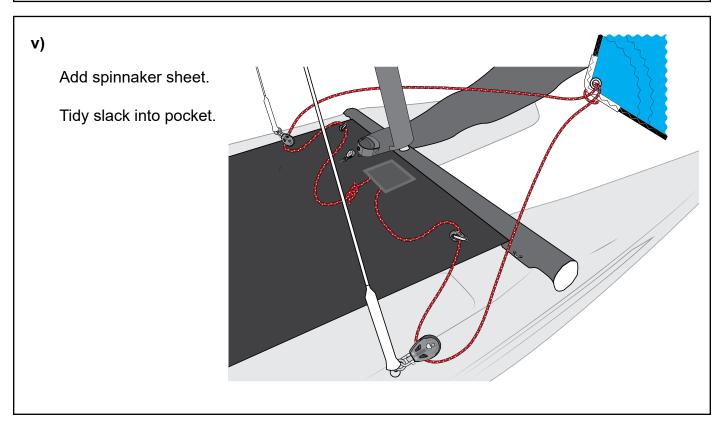
Pass the rope back up and through the loop of knot #2.

Remove the slack from the rope and tie off. This rope should not be pulled very tight.











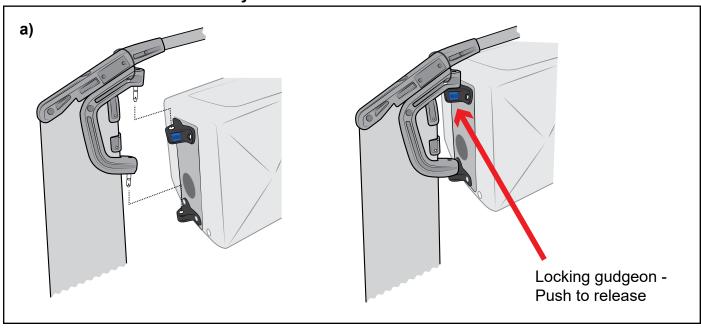
# 4.5 Assembly Guide Foils

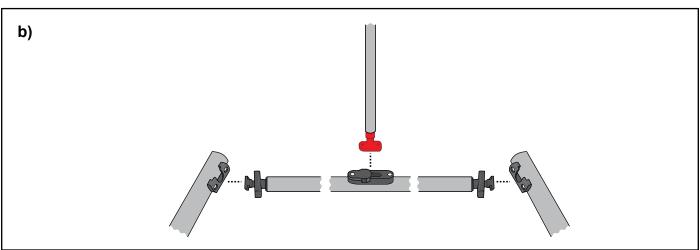


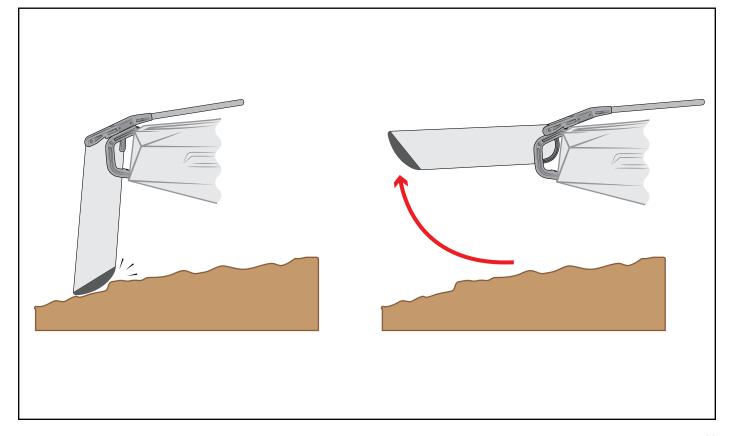
PLEASE FOLLOW ASSEMBLY GUIDE IN CORRECT ORDER.



## RSCAT14 4.5 - Assembly - Foils









#### 5. SAILING HINTS

#### 5.1 Introduction

The RS Cat 14 is a very rewarding boat to sail – to fully appreciate its handling, you should be comfortable with the basic techniques of sailing small catamaran. If you lack confidence or feel that a refresher is in order, there are many approved sailing schools which use the RS cat 14.

See www.rya.org.uk for more information, or follow the link from www.rssailing.com to find your local RS Academy.

While we offer you a few hints to aid your enjoyment of your new boat, they should not be considered as a substitute for an approved course in dinghy sailing. In order to build your confidence and familiarise yourself with your new boat, we recommend that you choose a fairly quiet day with a steady wind for your first outing.

### 5.2 Launching.

### Before launching you must read the owners manual.

With the sails fully hoisted, attach the rudders to the transom. The boat should be wheeled into the water, keeping it head to wind as far as possible. If you have a crew, s/he can hold the boat head to wind whilst the trolley is stowed ashore.

#### **TOP TIP**

If the tide is coming in as you launch, make sure that you leave the trolley far enough up the beach that it will not be swept away.



### 5.3 Leaving the Beach

The easiest way to get going is for the helm to hop aboard while the crew holds the boat. The helm should push gently on the tiller to lower some of the rudder blade. Then, s/he may instruct the crew to push the bow off the wind and climb in.

The singlehanded sailor may choose to ask someone to help them to launch. If launching alone, stand in the water alongside the gunwhale, holding the boat head to wind. Lower part of rudder, and then push the bow off the wind while hopping in.

#### **Top Tip**

If you are using the jib, pulling this sail in as you leave the beach will ensure that the bow continues to swing away from the direction that the wind is blowing from.

As soon the water is deep enough, make sure that you lower the rudder blade fully by pushing back and down on the tiller. You will know it is fully down if you feel a gentle "thud" as the front face of the blade hits the front face of the stock. Pull the sail in and you are away!

For the best performance, you should ensure that you and your crew position yourselves so that the boat is sailing through the water as flat as possible. Watch the trim (fore and aft) and the heel. The boat should always be sailed as upright as possible.

#### **Top Tip**

As a general rule, sit further forward in lighter winds and further aft in stronger breezes.

### 5.4 Sailing Close-Hauled and Tacking

When sailing close-hauled, or as close as possible to the wind, it is important to get the mainsail as near as possible to the centreline, especially when sailing the RS Cat 14 with the mainsail and jib. The Downhaul should be firmly tensioned for upwind work. To pull it on, quickly put the boat head to wind. You should hold the tiller extension across your body, with a knuckles-up grip, enabling you to use one or two fingers as a temporary cleat when adjusting the mainsheet.

The jib sheet should be pulled in fairly hard when sailing upwind – tighter in stronger winds and less so in lighter winds. Sail to the jib tell-tails, keeping the one on the back of the sail streaming and the one closest to you either streaming or lifting upwards slightly.

To tack, push the tiller extension away from you and, as the boat starts to turn, Keep the Jib cleated until you are on the new tack and step across the Tramp facing forwards and pass the extension behind the mainsheet, Once the boat has completed the turn, bring the tiller back into the centre before sitting down on the new side, with the tiller extension behind your back. When you are settled, swap the mainsheet and the tiller extension into the new hands.

If the boat slows right down and feels lifeless when close-hauled, you could be sailing too close to the wind. Ease the mainsheet and 'bear off' away from the wind for a while to get the boat going again.

### 5.5 Sailing Downwind and Gybing

When sailing downwind, you could reduce the amount of downhaul on the mainsail. Let the jib out to allow the tale tales to flow, the mainsail needs to be reduced slightly in mainsheet tension and dropped down on the traveller. Single-handed sailors should adopt a relaxing, reclined pose on the tramp. To gybe, pull the tiller towards you and, as the boat starts to turn, step across the tramp facing forward.

Once the boat has completed the turn, pass the tiller behind the mainsheet bring the tiller back into the centre before sitting down on the new side, with the tiller extension behind your back. Often, the Sail will not want to come across until you have nearly completed the gybe, so it often pays to give the mainsheet a tweak to encourage the mainsail over at the moment that you want it to come! Once you are settled, swap the mainsheet and the tiller extension into the new hands.



### 5.6 Using the Gennaker

If you are inexperienced in using a gennaker, choose a fairly quiet day for you first excursion. A gennaker nearly doubles your sail area, and should be treated with a healthy degree of respect!

For your first hoist you should be sailing downwind on a broad reach, with the wind coming over the helm's left shoulder. The crew should sit in the centre of the tramp, and hoist the gennaker by pulling the gennaker halyard from the spinlock cleat on the front beam.

The gennaker halyard pulls the tack of the sail to the outboard end of the gennaker pole- when the gennaker is hoisted, you are ready to go. The crew, or the helm if sailing singlehanded, should now pull gently on the leeward gennaker sheet until the gennaker has filled.

Gennakers may be effectively used from a close reach to a broad reach so, to get downwind, one should become adept at gybing. It is not possible to tack with the gennaker hoisted. For the best effect, the gennaker sheet should always be eased as far as possible, so that the luff is just on the point of curling. Gybing with the gennaker is fairly straightforward. Like the jib, it should be pulled across at the same time as the mainsail comes across. As soon as it has been pulled in and filled with wind, it should again be immediately eased for maximum efficiency and speed. If sailing singlehanded, the mainsail should be cleated, and the helm should hold the gennaker sheet at all times.

To drop the gennaker, reverse the procedure used to hoist. The boat should be sailing on a broad reach, and the slack in the gennaker downhaul is pulled in from the left hand halyard block. As the gennaker downhaul goes tight, the gennaker halyard should be popped out of the cleat. Then, pull the remainder of the gennaker downhaul through until the gennaker is pulled sharply into the chute. Dropping the gennaker on tighter reaches is harder, and requires more effort on the gennaker downhaul. If possible, this should be avoided when sailing singlehanded.

#### **TOP TIP**

Tie a rope bobble onto the gennaker halyard, about 10 cm from the bowline (knot #2) that is attached to the head of the gennaker. This will make dropping the gennaker easier.

#### HINT

The gennaker can "bunch up" when entering the chute. This can be minimised by keeping some tension on the gennaker sheet, preventing the clew from being sucked into the chute with the main body of the gennaker.

When the gennaker is fully lowered, tidy the sheets and the halyard to keep in the pockets on the tramp.

### 5.7 Reefing

Reefing enables the less-experienced or younger sailor to continue sailing in stronger winds.

Roll the excess mainsail and using sail ties through the reefing eyes. Make sure that there is enough tension in the luff by pulling on the main

#### **TOP TIP**

Make sure that you are in plenty of clear water when reefing.

#### HINT

The jib is a very effective strong wind sail area because it is low down and maintains a balanced helm. So slab reef before you lose the jib – it's more fun for the crew!

Strong wind sailing can be the best fun of all, so become familiar with the reefing systems and get back out there!



#### 6. MAINTENANCE

#### 6.1 Boat Care

The RS Cat 14 is made using Comptec PE3, a three-layer polyethylene construction. This is stiff and light, but will dent if subjected to point loading. The boat should be supported ashore on an approved RS trolley, as the hull may distort if not supported properly. For long-term storage, it is better to support the boat on a rack, in slings, or another type of support that spreads the weight and avoids point loads. The hull can also be stored on the transom, but never store the boat for long periods on its side. When dealing with a marine environment, equipment gets wet; this in itself is not a problem. The problem starts when moisture is trapped for any length of time. Therefore, it is very important to store the boat properly ashore.

Keep your dinghy drained and well ventilated.

Ensure that the boat is stored with the bow raised to allow water to drain away.

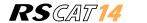
**Wash with fresh water.** Fresh water evaporates far more quickly than salt water so, if your dinghy has been sailed in salt water, rinse it thoroughly. The fittings will also work better if regularly washed. Any stubborn marks on the hull can be removed with a light detergent, such as washing up liquid. Always test cleaning products on a small, inconspicuous part of the deck before applying to the whole boat.

#### Hull damage falls into three categories:

- **SERIOUS** large hole, split, crack, or worse. Don't be too distressed! Get the remnants back to RS Sailing or send us a picture for assessment.
- **MEDIUM** small hole or split. If this occurs during an event, sailing can often be continued as long as leaking can be prevented by drying the area and applying strong adhesive tape. CAUTION if the damage is close to a heavily loaded point, then the surrounding area should be closely examined to ensure that it will accept the loads. Get the damage professionally repaired as soon as possible.
- SMALL dents, scratching. This type of damage is not boat threatening.

Comptec PE3 cannot be repaired in the same way as fibre glass. Some scratching can be removed by RS Sailing staff, but dents cannot. Therefore we suggest you treat your boat with as much care as you would if it were fibre glass. More serious repairs can be carried out by RS Sailing staff; however, the repair will never be invisible, due to the nature of the material.

The joy of owning an RS Cat 14 is that it is very hard wearing, and any dents and scratches it receives will not affect the structural integrity of the hull.



#### 6.2 Foil Care

RS Cat 14 Rudder blades are manufactured from anodised Aluminium extrusions with injection moulded glass reinforced Nylon ends. Lower mouldings are bonded in with polyurethane adhesive sealant. Upper mouldings are riveted or screwed in. Lower mouldings are sealed, however over time there may be some water ingress. If this occurs the blade should be inverted to allow water removal through the drain holes in the top of the moulding. Rudder blades contain closed cell foam to ensure buoyancy and limit potential water ingress.

#### Maintenance

- Foils should be rinsed with fresh water after use.
- Anodising will prevent surface corrosion, however if surface damage does occur the aluminium should be polished with wax polish e.g. car polish.
- Nylon mouldings are maintenance free but can be replaced if damaged.

If you are going to trail your boat frequently, you may wish to invest in an RS Sailing padded rudder bag. This will protect your RS Cat 14 from any damage caused by the foil.

### 6.3 Spar Care

The mast are aluminium. Wash with fresh water as often as possible, both inside and out. Check all of the riveted fittings on a regular basis for any signs of corrosion or wear.

#### 6.4 Sail Care

The mainsail should be rolled and stored dry, out of direct sunlight. When using a new sail for the first time, try to avoid extreme conditions as high loads on new sailcloth can diminish the racing life of the sail. If your sail is stained in any way, try to remove it using a light detergent and warm water. **DO NOT** attempt to launder the sail yourself.

A sail can be temporarily repaired using a self-adhesive cloth tape, such as Dacron or Mylar. The sail should be returned to a sail maker for a professional repair. Check for wear and tear, especially around the batten pockets, on a regular basis.

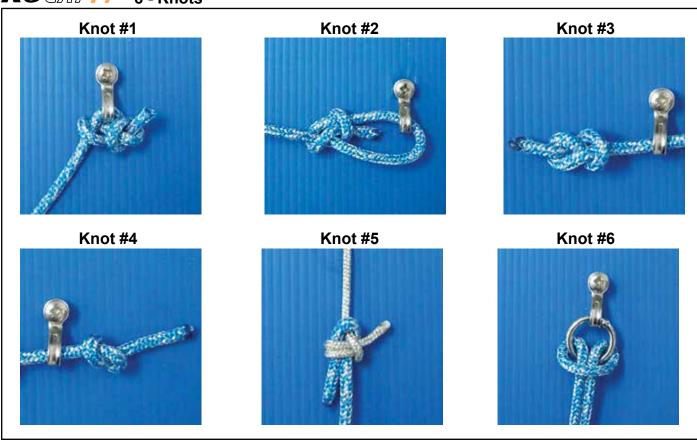
### 6.5 Fixtures and Fittings

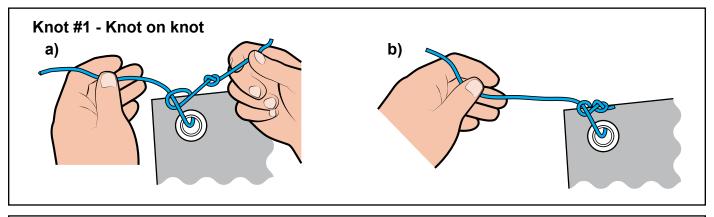
All of the fixtures and fittings have been designed for a specific purpose in the boat. These items may break when placed under any unnecessary load, or when used for a different function to their intended purpose. To ensure optimum performance, wash the fixtures and fittings with fresh water regularly, checking shackles, bolts, etc. for tightness.

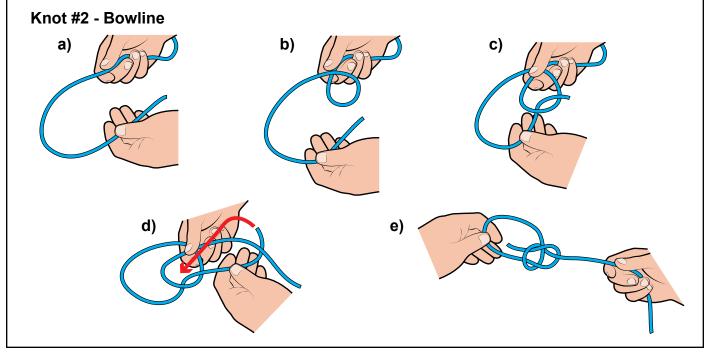
#### 7. WARRANTY

- **1.** This warranty is given in addition to all rights given by statute or otherwise.
- **2.** RS Sailing warrants all boats and component parts manufactured by it to be free from defects in materials and workmanship under normal use and circumstances, and the exercise of prudent seamanship, for a period of twelve (12) months from the date of commissioning by the original owner. The owner must exercise routine maintenance and care.
- **3.** This warranty does not apply to defects in surface coatings caused by weathering or normal use and wear.
- **4.** This warranty does not apply if the boat has been altered, modified, or repaired without prior written approval of RS Sailing. Any changes to the hull structure, deck structure, rig or foils without the written approval of RS Sailing will void this warranty.
- **5.** Warranty claims for materials or equipment not manufactured by RS Sailing can be made directly to the relevant manufacturer. RS Sailing warrants that these parts were installed correctly and according to the instructions provided by the manufacturer.
- **6.** Warranty claims shall be made to RS Sailing as soon as practicable and, in any event, within 28 days upon discovery of a defect. No repairs under warranty are to be undertaken without written approval of RS Sailing.
- **7.** Upon approval of a warranty claim, RS Sailing may, at its expense, repair or replace the component. In all cases, the replacement will be equal in value to the original component.
- **8.** Due to the continuing evolution of the marine market, RS Sailing reserves the right to change the design, material, or construction of its products without incurring any obligation to incorporate such changes in products already built or in use.

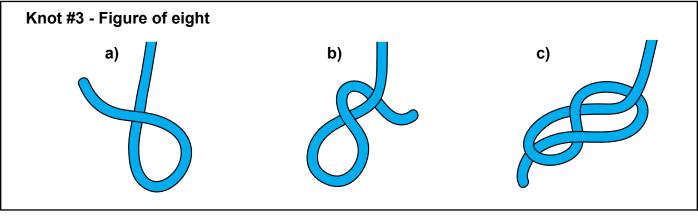


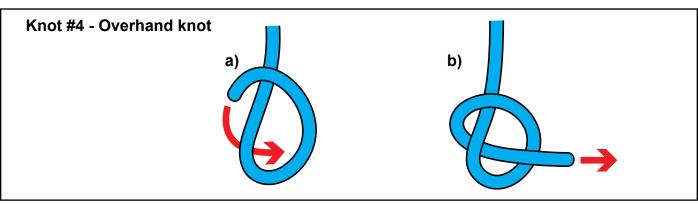


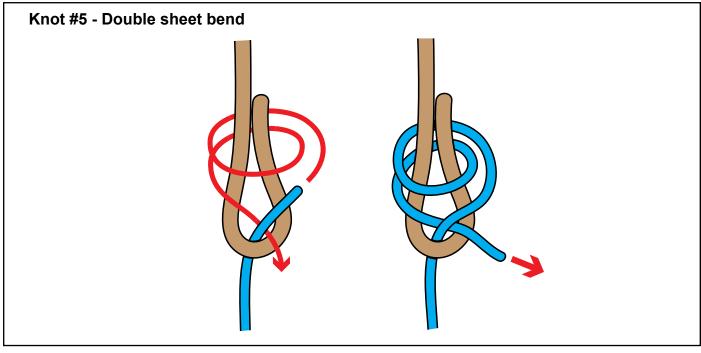


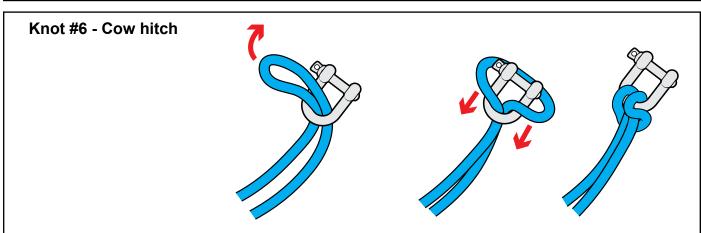






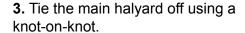


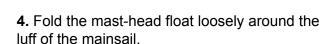


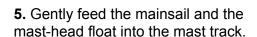


## **RSCAT14** 9 - Rigging an Inflatable Masthead Float

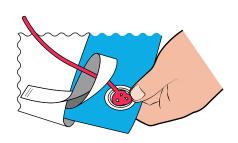
- 1. Inflate the mast-head float
- 2. Place the webbing straps of the mast-head float either side of the metal eye in the head of the mainsail, and feed the main halyard through.

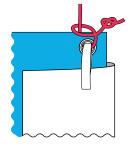


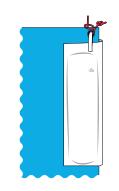


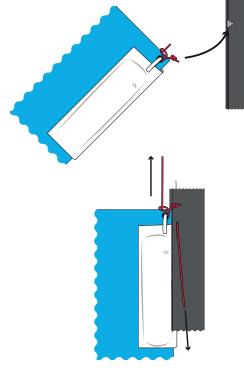


- 6. Pull on the main halyard to hoist the mainsail.
- 7. When the mainsail is at the top of the mast, cleat the main halyard, coil the excess halyard, and stow it in the halyard bag.











#### Α

Aft At the back

**Anchor Line** Rope that attaches the anchor to the boat

Astern Behind the boat

Asymmetric Gennaker flown from a retractable pole at the bow

В

Back To 'back the sail'; allowing the wind to fill the back of the sail

Bailer A bucket or other container used for bailing water

Batten A thin strip of wood/plastic inserted in the sail to keep it flat

Batten Key A key used to adjust the batten

Batten Pocket A pocket on the sail that holds the batten

Beam Width of the boat at the widest point of the side of the boat.

The phrase 'wind on the beam' means that the wind is coming from the side.

Bear away To turn downwind

To sail a zig-zag course to make progress upwind Beat

Beaufort Scale A measure of wind strength, from Force 1 to Force 12

The moulded line that marks the transition from the side to the bottom of Bilge Rail

the hull

**Block** A pulley used for sail control lines Boom The spar at the bottom edge of sail

Boom Pad The pad that fits onto the boom

The front of the boat Bow

**Bow Lifting Handle** The handle at the front of the boat, used for lifting

Bowline A useful and reliable knot, with a loop in it **Bow Snubber** The part of the trolley that the bow rests on

Builder's Plate Plate that contains build information

A stopper for the drain hole Bung

Buoy Floating object attached to the bottom of sea – used variously for

navigation, mooring, and to mark out a race course

Buoyancy Aid Helps you to stay afloat if you fall in the water

Buoyancy Compartment Water-tight compartment in the hull that maintains buoyancy

Burgee Small flag at the top of the mast to show wind direction

C

Capsize To overturn

Capsize Recovery To right, or recover, the boat after a capsize

Catamaran A boat with two hulls

Centreboard The foil that sits below the hull to counteract the sideways push of the wind,

and to create forward motion

Centreboard Case The casing in the hull in which the centreboard sits

Centreline An imaginary line that runs through the centre of the hull, from the bow to

the stern

Chart datum Depths shown on a chart, at the lowest possible tide

Cleat A device to grip ropes and hold them in place – some grip automatically,

while others need the rope tying around them

Clew Lower corner of the sail, closest to the stern

Close hauled Sailing as close to the wind as you can; point of sailing to sail upwind

Cockpit The open area in the boat providing space for the 'helm and the crew

Collision Regulations The 'rules of the road' to avoid collisions

Compass Rose The compass shown on a chart to aid navigation

Crew Helps the helmsman to sail the boat, and usually handles the jib sheets

Cutter A boat with two headsails or jibs

D

Dacron A brand of polyester sailcloth that is wrinkle-resistant and strong

Deck A floor-like surface occupying part of the hull

Deck Moulding A moulded deck

Downhaul Applies downwards tension to a sail

Downwind To sail in the direction that the wind is blowing

Drain Hole A hole in the hull from which trapped water can be drained

### RSCAT14 10 - Glossary

Draught The depth of the vessel below the surface

Ε

Ease To 'ease sheets' means to let the sail out gently

F

Fairlead A pulley block used to guide a rope to avoid chafing

Foils The daggerboard and the rudder

Foot The bottom edge of a sail

Fore Towards the front of the boat

Forestay The wire line that runs from the front of the mast to the bow of the

hull, holding the mast in position

Furl To gather a sail into a compact roll and bind it against the mast

or forestay

G

Gennaker A large sail that is hoisted when sailing downwind

Gennaker Chute Webbing pocket in which the gennaker is stowed when not hoisted

Gennaker Pole The sprit that protrudes from the front of the hull, to which the tack of

the gennaker is attached

Gnav Bar Bar that sits between the mast and the boom, performing the

same function as a kicking strap

Gnav Control Line Line that applies and releases tension to the gnav

Gooseneck The 'jaws' of the boom that clip onto the mast

Gunwhale The top edge of the hull, that you sit on when leaning out to balance

the boat

Gybe To change tack by turning the stern of the boat through the wind.

Н

Halyard The rope used to hoist sails

Halyard Bag Bag attached to the hull, in which the halyards can be stowed

Head The top corner of a sail

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'Head to Wind'

To point the bow in the direction that the wind is blowing from,

causing the sails to flap

'Heave to'

To stop the boat by easing the main sheet and backing the jib

Heel A boat 'heels' when it leans over due to the sideways force of

the wind

Helm/Helmsman The person who steers the boat, or another name for the tiller

Hoist Block Block behind which the gennaker halyard is pulled when hoisting

the gennaker

Hull The hollow, lower-most part of the boat, floating partially submerged

and supporting the rest of the boat

'Into the Wind'

To point the bow in the direction that the wind is blowing from,

causing the sails to flap

Inversion A capsize where the boat turns upside down, or 'turtles'

J

Jammer Another word for a cleat

Jib The small sail in front of the mast

Jib Sheet The rope used to control the jib

K

Kicking strap The rope system that is attached to the base of the mast and

the boom, helping to hold the boom down

Knot A measurement of speed, based on one minute of latitude

Launching To leave the slipway

### **RS**CAT**14** 10 - Glossary

Latitude Imaginary lines running parallel round the globe from east to west.

They help you measure position and distance on a chart.

Leech The back edge of the sail

Leeward The part of the boat furthest away from the direction in which the

wind is blowing

Leeway The amount of sideways drift caused by the wind

Leverage The result of using crew weight as a 'lever' to counteract heel

caused by the wind

Lie to A way of stopping the boat temporarily by easing sheets on

a close reach

Lifejacket Unlike a buoyancy aid, a lifejacket will keep a person fully afloat

with their head clear of the water

Longitude Imaginary lines running round the globe from north to south,

like segments of an orange. Used with lines of latitude to

measure position and distance

Lower Furling Unit The fitting at the bottom of the forestay that enables the jib

to be furled

Luff The front edge of the sail

M

Mainsail The largest sail on a boat

Mainsail Clew Slug The fitting that sits in the track on the boom, to which the clew of

the mainsail is attached

Mainsheet The rope used to control the mainsail

Mainsheet Bridle The rope runs across the transom of the boat, to which the

mainsheet is attached

Mainsheet Centre Block The main block, usually fixed to the cockpit floor, through

which the mainsheet passes

Man Overboard Recovery The act of recovering a 'man overboard' from the water

Mast The spar that the sails are hoisted up

Mast Foot The bottom of the mast

Mast Gate Fitting which closes across the front of the mast at deck level,

holding the mast in place

### **RS**CAT 14 10 - Glossary

Mast Lower Section The bottom section of a two-piece mast

Mast Step The fitting on the deck that the mast fits into

Mast Top Section The top section of a two-piece mast

Meteorology The study of weather forecasting

Moor To tie the boat to a fixed object

Mylar A brand of strong, thin, polyester film used to make racing sails

#### N

National Sailing Federation Body that governs sailing in a nation. In the UK, this is the

**Royal Yachting Association** 

Navigation To find a way from one point to the other

Neap Tide Tides with the smallest tidal change

### 0

'Off the Wind'

To sail in the direction that the wind is blowing

Outboard Bracket Kit Bracket which enables an outboard engine to be attached

to the transom

Outboard Engin Small portable engine that attaches to the transom

Outhaul The control line that applies tension to the foot of the sail,

by pulling the sail along the boom

Outhaul Hook The fitting on the boom that hooks the eye at the back of

the sail, and to which the outhaul is attached

### P

Painter The rope at the bow used to tie the boat to a fixed object

Pontoon A floating jetty to moor your boat to

Port The left-hand side of the boat, when facing forwards

#### R

RS Dealer A third-party who sells the RS range

Reach Sailing with the wind on the side of the boat

Reef To make the sails smaller in strong winds

Retaining Pin On a trolley, to hold the launching trolley to the road base

Road Base A trolley that you place your boat and launching trolley upon to

trail behind a vehicle

Rowlocks U shaped fittings that fix onto the gunwale and holds your oars in

position while rowing

Rowlock Holes The holes in the gunwhale into which the rowlocks fit

Rudder The foil that, when attached to the stern, controls the direction

of the boat

Rudder Blade The large, rigid, thin part of the rudder

Rudder Downhaul The control line that enables you to pull the rudder into place

Rudder Pintle The fitting on the transom onto which the rudder stock fits

Rudder Stock The top part of the rudder, usually including the tiller, into which the

rudder blade fits, and which then attaches to the rudder pintle

Run To 'run with the wind', or to sail in the direction that the wind is blowing

S

Safety-Boat Cover Support boats, usually RIBs, in case of emergency

Sail An area of material attached to the boat that uses the wind to

create forward motion

Sailmaker A manufacturer of sails

Sail Number The unique number allocated to a boat, displayed on the sail

when racing

Sail Pressure A sail has 'pressure' when it is working with the wind to create motion

Sailing Regatta An event that usually comprises of a number of sailing races

Shackle A metal fitting for attaching ropes to blocks, etc.

Shackle Key Small key used to undo tight shackles

Sheet A rope that controls a sail

Shroud The wires that are attached to the mast and the hull, holding

the mast up

Side Safety Line The line that runs along the side of the hull

Single Handed To sail a boat alone

Single-Line Reefing System An efficient method of reefing with one line

Slider Sliding fitting on the boom to which the gnav bar is attached

Soundings The numbers on a chart showing depth

Spars The poles, usually carbon or aluminium, to which the sail is attached

Spreaders Metal fittings attached to the mast which hold the shrouds out

Spring Tide The tides with the biggest range and strongest currents

Starboard. The right-hand side of the boat, when facing forwards

Stern The back of the boat

Stern Lifting Handles The handles at the stern, used for lifting the boat

Stopper Knot A form of knot used to prevent a rope from sliding through a

fitting, such as a pulley or a cleat

T

Tack a) To change direction by turning the bow of the boat through the wind

b) The bottom front corner of a sail

Tack Bar The bar at the bow of the hull, to which the tack of the jib is attached

Tack Line The rope that emerges from the front of the gennaker pole, to which

the tack of the gennaker is attached

Tender A small vessel, usually used to transport crew to a larger vessel

Tidal height The depth of water above chart datum

Tidal range The difference between the depth of water at low and high tide

Tidal stream The direction in which the tide is flowing

Tiller The stick attached to the rudder, used to steer the boat

Tiller Extension A pole attached to the tiller to extend its reach, usually used when hiking

Toe Straps The straps to tuck your feet under when you lean out to balance the boat.

Top Furling Unit Fitting at the top of the forestay which enables the jib to be furled

Towing Line A rope attached to the boat, used to connect to a towing vessel

Transit An imaginary line between two fixed objects, used to ensure that

you are staying on course

Transom The vertical surface at the back of the boat

Trim Keeping the boat level fore and aft

Trimaran A boat with three hulls

Trolley A wheeled structure, used to move the boat around on land

Trolley Supports The part of the trolley in direct contact with the hull

## **RS**CAT 14 10 - Glossary

U

'Under Weigh' A term derived from the act of 'weighing' anchor, meaning to be

in motion

Upwind To sail against the direction in which the wind is blowing

W

Wetsuit Neoprene sailing suit designed to keep you warm when wet

Windward The part of the boat closest to the direction in which the wind is blowing