

SKUD 18

Owners' Guide

December 2012



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DISCLAIMER

The SKUD 18 is a high performance sailboat. Exercise caution ashore near overhead power cables and when lifting, launching and retrieving the boat, and stepping and lowering the mast. Avoid sailing into shallow areas, avoid underwater obstacles and exercise extreme caution in strong winds. Enjoy your SKUD 18, but use at your own risk!

This document provides guidelines only. All drawings, photographs, illustrations, performance data, dimensions, weights and other technical information specifications and particulars of the SKUD 18 are published in the belief that they are as accurate as reasonably possible. It is the responsibility of the Customer to ensure the accuracy of all such materials and information and Hansa Sailing Systems Pty Ltd accepts no liability in this respect.

SKUD 18 WARRANTY

1.1 Hansa Sailing Systems Pty Ltd (The Company) warrants that the Goods will be free from defects in materials and workmanship for a period of twelve months from the date of delivery to the Customer (the "warranty period"). Provided the Customer makes a full inspection of the Goods immediately upon receipt and thereafter gives the Company written notice containing full particulars of any defects it discovers and the circumstances in which such defects occurred, the Company shall, at its sole option, either repair, replace or give credit for price of any such Goods which its examination confirms are defective in material or in workmanship within the warranty period provided that the Customer has adhered to the payment provisions herein and further provided that:

a). The Customer returns the defective Goods to the Company or its authorised service depot (as directed by the

Company) and pays all transportation charges, duties and taxes associated with the repair, replacement and return of the Goods to the Customer, or:

b). If, at the Company's option, the Company arranges for a technician to visit the Customer's location to repair or replace the defective Goods, the Customer pays all transportation charges for the technician and his equipment, including any applicable duties and taxes, accommodation and living expenses and normal charges for the technician's time while travelling and for delays beyond the Company's control (save that the Customer shall not be liable for any charge in respect of the technician's time on site actually engaged in carrying out the repair or replacement of such defective Goods).

1.2 The repair or replacement of defective Goods during the warranty period in accordance with clause 1.1 shall not extend the period of the warranty of such Goods.

1.3 The provisions of clause 1.1 do not extend to any Goods which have been subjected to misuse, accident or improper installation, maintenance, application or operation nor do they extend to Goods which have been repaired or altered other than by the agents or employees of the Company unless previously authorised in writing by the Company.

1.4 The warranty contained in clause 1 is expressly accepted by the Customer in lieu of any and all other terms, warranties conditions or liabilities whether express or implied, in fact or in law, relating to the state, quality description, capacity, design, construction, operation, use or performance of the Goods or to the merchantability, repair, or fitness for a particular purpose of the Goods or otherwise. No agreement varying or extending the same will be binding upon the Company unless in writing signed by a director of the Company.

1.5 Unless a director of the Company shall otherwise expressly agree in writing, in no circumstances will the Company's liability to the Customer for any breach of the warranty contained in clause 1 exceed the price paid for the products with respect to any claim made.

2. LIMITATION OF LIABILITY

2.1 Save as expressly provided in clause 1 the Company shall have no liability whatsoever to the Customer for any indirect, special, consequential or incidental loss or damage of any kind suffered or incurred by the Customer howsoever caused or arising, whether from breach or non-performance of any of its obligations under the Contract or from the supply, installation, performance, operations or use of the Goods, except liability for death or personal injury arising from the Company's proven negligence.

Introduction

Designed by Chris Mitchell in 2005 and manufactured by Hansa Sailing since 2009, the SKUD18 is a ballasted **SK**iff of **U**niversal **D**esign that can be trailer or cradle launched at a boat ramp or by crane. It is extremely stable and comfortable but responsive and above all great fun and exciting to sail.

Multiple Configurations

The SKUD 18 can be configured to suit a variety of sailing preferences:

- A very stable Open Two Person Sport Boat with heavy ballast. In this configuration, both crew can hike, but if one sits in a centreline seat the other can trapeze.
- An Open, High Performance Three Person Sport Boat with moderate ballast. All three crew can hike, but if one sits in a centreline seat one can trapeze.
- A Paralympic Two Person keelboat, with heavy ballast. Both crew are in centreline seats.
- A Family Day Boat or Stable Training Boat with Asymmetric Spinnaker. With a slab reefing main and roller furling jib, with either heavy or moderate (2P or 3P bulb) ballast.

Modern Sloop Rig

- A carbon fibre mast,
- Fully battened mainsail,
- Self-tacking jib, and
- Tube launched asymmetric spinnaker on a carbon composite pole.
- Slab reefing mainsail and roller furling jib optional

Optimised Planing Hull

- Flared topsides for exceptional stability
- Wide side-decks provide extensive seating area
- Huge buoyancy chambers for security in extreme conditions
- Considerable positive buoyancy and will not sink if holed
- Self draining cockpit
- Twin rudders maintain exceptional directional control even when heeled
- Construction is 8mm and 6mm PVC foam sandwich with bi-directional glass and polyester resin

Steering Options

- Tiller steering with extension is standard for hiking crews
- Joystick and Push-Lever steering for a centreline helm seat
- Servo Assisted steering winch systems, either single or variable speed, with a variety of controllers, including single and dual-axis joysticks, Sip and Puff, and Magnetic Reed Switches

Cockpit Options

A range of Consoles, Footrests and Seat Combinations are available for the Open Two-Person (2P) and Three-Person (3P):

- Full length cockpit footrest (2296) with adjustable toe straps, and front of cockpit cleat console (2292) with cleats for all control lines, spin halyard, and main and jib sheets
- Full length footrest above (2296) with transferring seat (2295) which includes mainsheet block and cam-cleat on centreline, with mainsail control line cleats port and starboard

- Full length footrest with adjustable toe straps, with centre cockpit mainsail control line cleats port and starboard, and mainsheet ratchet block with cam cleat (2297). For use with this footrest is a mini front of cockpit cleat console (2293) with cleats for jib halyard, jib sheet, spin halyard and optional mainsheet cleat
- Fore cockpit footrest with adjustable toe straps, and helmsman foot cover with aft facing main control line cleats and mainsheet cleat. Used with Canting helm seat (2181)

Combination for Open and Paralympic Centreline Seats:

- Canting helm seat (2181), canting crew seat (2194), and simplex cleat console (2291)

Servo Assist Winch Systems for sheets and steering

- Helm (variable speed optional)
- Main Sheet and Jib Sheet
- Boom Vang and Cunningham
- Spinnaker Sheets

SKUD 18 Specifications

Specification	Metric	Imperial
LOA	5.8 m	19'
LWL	5.5 m	18'6"
Beam	2.15 m	7'
Draft	1.7 m	5'7"
Mast	6.8 m	22'4"
Hull	170 kg	375 lb
Bulb (2P)	136 kg	300 lb
Bulb (3P)	57 kg	125 lb
Keel	25 kg	55 lb
Displacement (2P)	356 kg	784 lb
Displacement (3P)	277 kg	610 lb
Buoyancy	580 kg	1278 lb
Main	10.5 m ²	113.8 sq ft
Jib	5.0 m ²	53.8 sq ft
Spinnaker	19.2 m ²	206.7 sq ft

SKUD 18 Parts List

Part No.	Description
	Complete Boats
1090	Hansa SKUD 18.2, complete boat ready to sail.
1090.1	Hansa SKUD 18.2, hull & foils only (no spars, rigging or sails).
1091	Hansa SKUD 18.3, complete boat ready to sail.
	Hull & Components
2091	SKUD 18 Hull & Deck - Basic
2092	SKUD 18 Hull & Deck - Fully Fitted
2309	51/2" inspection port complete
2310	51/2" inspection port lid only
2382	SKUD 18 chainplates complete set P&S
2382.13	SKUD 18 1 hole tang
2382.14	SKUD 18 2 hole tang
2382.15	SKUD 18 chainplate cover plate
2382.16	SKUD 18 chainplate cover plate complete (P&S)
2382.2	SKUD 18 chainplate set Port.
2382.3	SKUD 18 chainplate set Stbd.
2383	SKUD 18 MkII mast step (Selden)
2386	SKUD 18 keel lock down components set. (pair P & S, pin and clip)
2386.1	SKUD 18 keel lock down port angle
2386.2	SKUD 18 keel lock down stbd angle
2386.3	SKUD 18 keel lock down pin & retaining clip RF.....
2391	SKUD 18 transom gudgeon kit complete (2 x 2391.1, & 2 x 2391.2)(P&S)
2391.1	SKUD 18 top transom gudgeon
2391.2	SKUD 18 bottom transom gudgeon
2391.3	SKUD 18 gudgeon pin insert
2392	SKUD 18 keel lifter plate
2393	SKUD 18 cockpit track each 2m
2394	SKUD 18 mast post.
2395	SKUD 18 mast post step set
2395.1	SKUD 18 mast post channel
2395.2	SKUD 18 mast post flat plate
2397	SKUD 18 bow fitting (Mk11 model)
2397.1	SKUD 18 bow fitting laser cut plate
3489	SKUD 18 tiller extension.
3490	SKUD 18 Mk11 rudder box. (accepts Mk11 rudder blades).
3490.1	SKUD 18 rudder box laser cut plate
3491	SKUD 18 Mk1 rudder pin 3/8" diam. (9.5mm)
3492	SKUD 18 Mk1 rudder pin 8.4mm diam.
3493	SKUD 18 M11 rudder box pin. (8mm)
3493.1	SKUD 18 M11 rudder box pin kit (8mm) (P&S pins, 2 x PNP 54A, 2 x RF 413)
3493.2	SKUD 18 M11 rudder box pin. (8mm) PORT
3493.3	SKUD 18 M11 rudder box pin. (8mm) STARBOARD
3495	SKUD 18 short tiller pair (seat steering)
3496	SKUD 18 long tiller pair (tiller extension steering)
3497	SKUD 18 adjustable tie rod complete with ends & uni.
3497.1	SKUD 18 tie rod threaded alum tube
3497.2	SKUD 18 tie rod adjuster
3498	SKUD 18 tie rod 2 part steering line blocks

	Foils & Components
3191	SKUD 18 Mk1 centreboard.
3192	SKUD 18 Mk11 centreboard. (0 lead, used with 3282 & 3291 bulbs).
3281	SKUD 18.2 Mk1 bulb.(140kg lead)
3282	SKUD 18.2 Mk11 bulb. (140kg lead).
3291	SKUD 18.3 bulb. (60kg lead).
3381	SKUD 18 MkII rudder blade (FRP)
3571	SKUD 18 / Liberty 60kg bulb pins pair. (used with parts 3192 & 3291)
3582	SKUD 18 140kg bulb pins pair. (used with parts 3192 & 3282).
3591	SKUD 18 keel wedge. (polyethylene wedge).
	Rig & Components
4191	SKUD 18 MkII Mast Selden Carbon (complete with spreaders, fittings & rig pack)
4192	SKUD 18 MkII Mast Selden Carbon (with spreaders & fittings only)
4192.1	SKUD 18 MkII lower mast
4192.2	SKUD 18 MkII upper mast
4192.3	SKUD 18 MkII spreader
4193	SKUD 18 MkII Mast Selden Rig Pack (shrouds, lower shrouds, forestay, halyards)
4193.1	SKUD 18 MkII Selden shrouds (pair) with rigging screws
4193.2	SKUD 18 MkII Selden lower shrouds (pair) with rigging screws
4193.3	SKUD 18 MkII Selden forestay
4194	SKUD 18 MkII Mast Hansa Rig Pack (shrouds, lower shrouds, forestay, halyard pack 4592)
4194.1	SKUD 18 MkII Hansa shrouds (pair) with rigging screws
4194.2	SKUD 18 MkII Hansa lower shrouds (pair) with rigging screws
4194.3	SKUD 18 MkII Hansa forestay
4291	SKUD 18 MkII Selden boom complete with compression vang, outhaul & mainsheet
4491	SKUD 18 compression vang
4482	SKUD 18 spinn pole complete
4482.1	SKUD 18 spinn pole bare pole
4482.2	SKUD 18 spinn pole aluminium end fitting
4586	SKUD 18 jib halyard cleat component
5281	SKUD 18 Boat rig tensioner
	Sheets, Halyards & Control Lines
4585	SKUD 18 painter (16m floating ski rope)
4591.1	SKUD 18 control line package (4592, 4593, 4594.1, 4595.1, 4596, 4597.1, 4597.3, 4597.4) - forward console
4591.2	SKUD 18 control line package (4592, 4593, 4594.2, 4595.2, 4596, 4597.2, 4597.3, 4597.4) - centre console
4592	SKUD 18 halyards package (4592.1, 4592.2, 4592.3)
4592.1	SKUD 18 main halyard
4592.2	SKUD 18 jib halyard package (4592.2.1, 4592.2.2, 4592.2.3)
4592.2.1	SKUD 18 jib halyard
4592.2.2	SKUD 18 jib halyard hauling line
4592.2.3	SKUD 18 jib halyard tension tackle line
4592.3	SKUD 18 spinnaker halyard package (4592.3.1, 4592.3.2)
4592.3.1	SKUD 18 spinnaker halyard
4592.3.2	SKUD 18 spinnaker halyard tension line (bungee)
4593	SKUD 18 sheet package (4593.1, 4593.2, 4593.3)
4593.1	SKUD 18 mainsheet
4593.2	SKUD 18 jibsheet package (4593.2.1, 4593.2.2)
4593.2.1	SKUD 18 jibsheet primary (clew-floating block)

4593.2.2	SKUD 18 jibsheet secondary (floating block-cleat)
4593.3	SKUD 18 spinnaker sheet package (4593.3.1, 4593.3.2)
4593.3.1	SKUD 18 spinnaker sheet
4593.3.2	SKUD 18 spinnaker sheet clew strop
4594.1	SKUD 18 compression vang (Gnav) control line package - forward console (4594.3, 4594.4, 4594.5)
4594.2	SKUD 18 compression vang (Gnav) control line package - centre console (4594.3, 4594.4, 4594.6)
4594.3	SKUD 18 compression vang (Gnav) primary
4594.4	SKUD 18 compression vang (Gnav) secondary
4594.5	SKUD 18 compression vang (Gnav) tertiary - forward console
4594.6	SKUD 18 compression vang (Gnav) tertiary - centre console
4595.1	SKUD 18 outhaul control line package (4595.3, 4595.4)
4595.2	SKUD 18 outhaul control line package (4595.3, 4595.5)
4595.3	SKUD 18 outhaul primary
4595.4	SKUD 18 outhaul secondary - forward console
4595.5	SKUD 18 outhaul secondary - centre console
4596	SKUD 18 gennaker pole line package (4596.1, 4596.2, 4596.3)
4596.1	SKUD 18 gennaker pole launcher line
4596.2	SKUD 18 gennaker tack line
4596.3	SKUD 18 gennaker pole bow lashing
4597.1	SKUD 18 cunningham tackle line - forward console
4597.2	SKUD 18 cunningham tackle line - centre console
4597.3	SKUD 18 mainsheet turning block bridle
4597.4	SKUD 18 topping lift line
	Sails
4603	SKUD 18 sail numbers
4604	SKUD 18 national letters
4691	SKUD 18 sail suit. (4691.1 main, 4691.2 jib, 4691.3 gennaker).
4691.1	SKUD 18 main
4691.2	SKUD 18 jib
4691.3	SKUD 18 gennaker
4694	SKUD 18 mainsail (4691.1) batten set
4695	SKUD 18 jib (4691.2) batten set
4696	SKUD 18 gennaker sock
4697	SKUD 18 gennaker chute cover
	Seats & Components
2180.1	SKUD adjustable backrest, small.
2180.2	SKUD adjustable backrest, medium
2180.3	SKUD adjustable backrest, large.
2181	SKUD helm canting seat, bucket w/backrest, push/pull lever steering.
2181.1	Lever spigot, pair.
2181.2	Lever, pair.
2181.3	Front return block pivot
2181.4	Canting seat actuator plate
2183	SKUD helm canting seat, cushion w/backrest, push/pull lever steering.
2185	SKUD seat belt. Quick release
2186	SKUD fixed helm seat complete with joystick
2186.1	SKUD joystick crescent, 2mm aluminium plate
2186.2	SKUD joystick cross spar
2191	SKUD fixed crew seat
2194	SKUD 18 crew canting seat, bucket, no backrest.
2295	SKUD 18 centre cockpit transferring seat with cleat console
4805	SKUD steering lever spigot

	Footrests & Components
2294	SKUD 18 forward cockpit footrest with keel case cover, toe straps & helmsman's cleat console (used with 2181)
2296	SKUD 18 full length footrest (all crew hiking).
2297	SKUD 18 full length footrest with cleat console. (all crew hiking).
	Consoles & Components
2291	SKUD simplex cleat console (for inline seats)
2292	SKUD complex cleat console (P&S controls for hiking crew used with 2296)
2293	SKUD mini cleat console (used with 2294, 2295, 2297)
	Accessories
5181	SKUD Owners' manual.
4791	SKUD 18 deck cover
4792	SKUD 18 rudder blade cover/bag
4804	SKUD 18 keel lifter winch cover
5291	SKUD 18 keel lifter
5292	SKUD 18 lifting bridle (wire rope with shackles)
5491	SKUD 18 GRP hardstand trolley
	Servo Electric Equipment
6181	SKUD 18 helm single speed, all in one enclosure
6182	SKUD 18 helm variable speed, all in one enclosure
6183	SKUD 18 main & jib sheet system.
6184	SKUD 18 spinnaker halyard power assist system
6185	SKUD 18 canting system single seat incl battery box. (not incl seat)
6186	SKUD 18 canting seat system for both seats (not incl seats)
6187	SKUD 18 canting seat system with single speed helm (not incl seat)
6188	SKUD 18 canting seat system with variable speed helm. (not incl seat)
6189	SKUD 18 main & jib sheets incl single canting seat.
6281	SKUD canting seat, single speed helm, dual axis joystick.
6282	SKUD canting seat, variable speed helm, dual axis joystick.
6283	SKUD main & jib sheet system.
6284	SKUD spinnaker halyard power assist system
6285	SKUD seat canting system (not incl seat)
6286	SKUD canting seat system with single speed helm (not incl seat)
6287	SKUD canting seat system with variable speed helm. (not incl seat)
6288	SKUD main & jib sheets with canting seat in same system.
6302	Chest mount plate for enclosure incl strap
6303	Chest plate strap
6481	SKUD helm winch variable speed
6482	SKUD helm winch single speed
6482.1	SKUD helm winch drum
6532	Main sheet winch Mk11, 2.3S, 303S, Liberty S, XS, SKUD (Doga 319 motor)
6681	Canting seat winch
6682	Canting seat actuator
6682.01	Fixed pin & bolt
6682.02	Slave pin & bolt
6682.03	Mount bracket
6701	Batteries, 12V 7AH, standard, all systems except canting seats.
6702	Batteries, 12V 7AH, .5m lead, general purpose.
6703	Batteries, 12V 26AH, canting seats systems.
6704	Battery box, for 26AH batteries
6705.21	Weatherpack 2pin female connector incl pins
6705.22	Weatherpack 2pin male connector incl pins
6731	Battery chargers, 500 milli amp
6732	Battery charger connector on lead.

6755	Winch Motor Doga 111:70rpm
6756	Winch Motor Doga 319:40rpm
6757	Winch Motor Doga 319:80rpm

SKUD 18 Control Lines

Description	Part No.	Type	Length
Main Halyard	4592.1	4mm DB PolySpec Blue/White	20.0m
Jib Halyard	4592.2.1	4mm DB PolySpec Green/White	11.0m
Gennaker Halyard / Retrieval Line	4592.3.1	4mm DB PolySpec Yellow/White	22.0m
Mainsheet	4593.1	6mm Double Braid Polyester Blue Fleck	12.5m
Jibsheet Primary	4593.2.1	3mm DB PolySpec Green /White	2.90m
Jibsheet Secondary	4593.2.2	6mm Double Braid Polyester Green Fleck	4.20m
Gennaker Sheet	4593.3.1	6mm Double Braid Polyester Yellow Fleck	17.0m
Outhaul Primary	4595.3	3mm Spectra Purple	4.50m
Outhaul Secondary *	4595.4	4mm Spectra Purple	3.00m
Compression Vang (GNAV) Primary	4594.3	4mm Spectra Black	1.60m
Compression Vang (GNAV) Secondary	4594.4	3mm Spectra Black	1.30m
Compression Vang (GNAV) Tertiary *	4594.5	4mm Spectra Black	2.75m
Jib Halyard Hauling Line	4592.2.2	4mm Spectra Green	0.45m
Jib Halyard Tension Tackle Line	4592.2.3	4mm Spectra Green	2.50m
Cunningham Tackle Line *	4597.1	4mm Spectra Blue	4.20m
Gennaker Pole Launcher	4596.1	4mm Spectra Black	2.0m
Gennaker Tack Line	4596.2	4mm Spectra Black	4.50m
Gennaker Pole Lashing	4596.3	2mm Spectra Black	0.60m
Gennaker Halyard Tension Line	4592.3.2	4mm Shock Cord Black	2.00m
Mainsheet Turning Block Bridle	4597.3	4mm DB PolySpec Blue/White	2.10m
Painter	4585	7mm Floating Poly Ski Rope Black/White	15.0m

* For use with forward console

SKUD 18 Stainless Steel Wire Rigging

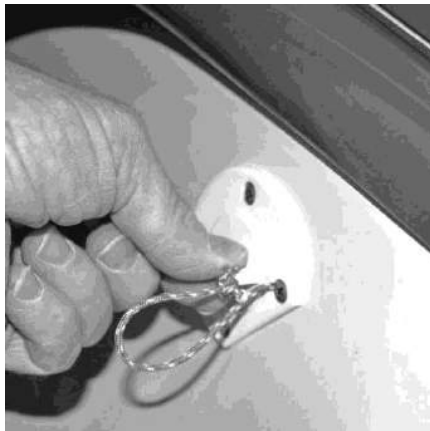
Description	Part No.	Type	
Shrouds (pair)	4193.1	3mm 9x9 SS Wire	4915mm
Inners (pair)	4193.2	3mm 9x9 SS Wire	1915mm
Forestay	4193.3	3mm 9x9 SS Wire	5455mm

Assembling the SKUD 18

Hull

Take care unloading your SKUD 18 and ensure all packing materials are removed from the hull. Check for any damage that may have been incurred during transport and report immediately to Hansa Sailing or its Distributor.

The boat is supplied with a bung in the transom for draining the hull, a breather in the bow (port side) and two hatch covers that provide access to the stern compartment from the aft deck. Make sure all are securely in place before launching the boat.

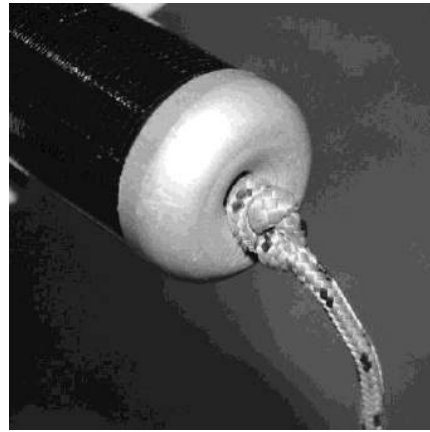


Gennaker Pole Launcher

Before fitting the cowling, it is recommended that the gennaker pole launching system is set up.



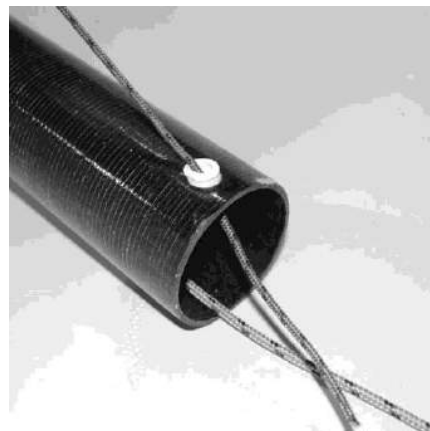
Place the pole into the groove in the bow. Make a lashing that is tight on the pole when it is extended until the inboard end of the pole is approximately 10cm from the lashing. Feed the gennaker tack line through the hole in the tip casting, through the pole and into the boat, and tie a figure 8 stopper knot leaving approximately 30cm of line to attach the tack.



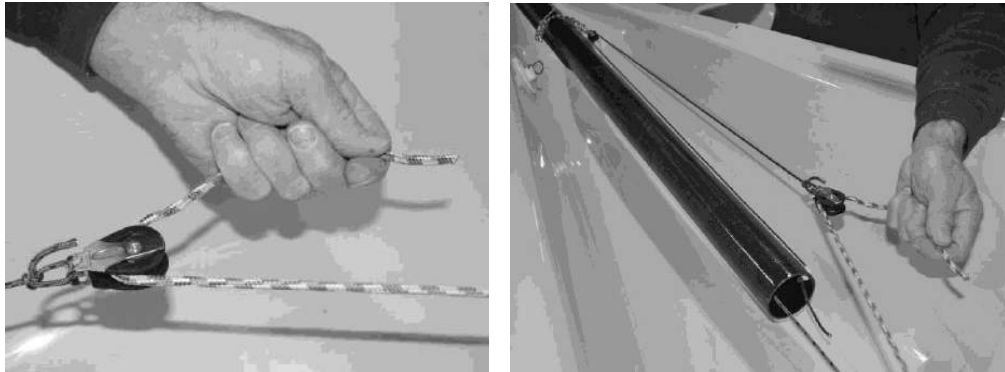
With the pole fully extended and all slack taken out of the line, tie the inboard end of the tack line off to the shackle at the front of the aluminium rack in the centre of the boat. This limits the pole extension.



Pass the end of the pole launcher line (with the block attached) inboard through the bow turning block, then through the grommet on the inboard end of the pole and tie a stopper knot that will pull up on the inside of the pole. Ensure there is a small amount of slack in the pole launcher line when the pole is fully retracted.

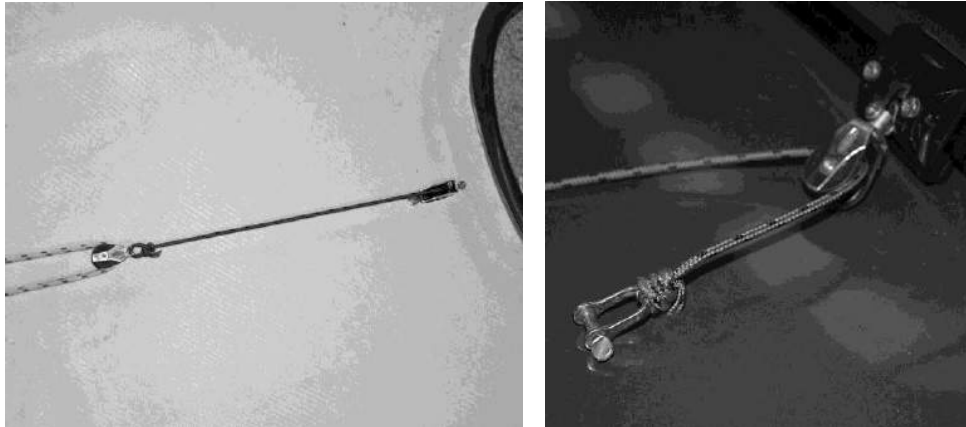


The spinnaker halyard will be passed through the pole launcher line block in order to extend the pole when hoisting. As the block is pulled up into the bow under the cowling when the pole is retracted, it is important to reeve a "mouse" line through the block to enable you to easily reeve the spinnaker halyard after you have stepped the mast.

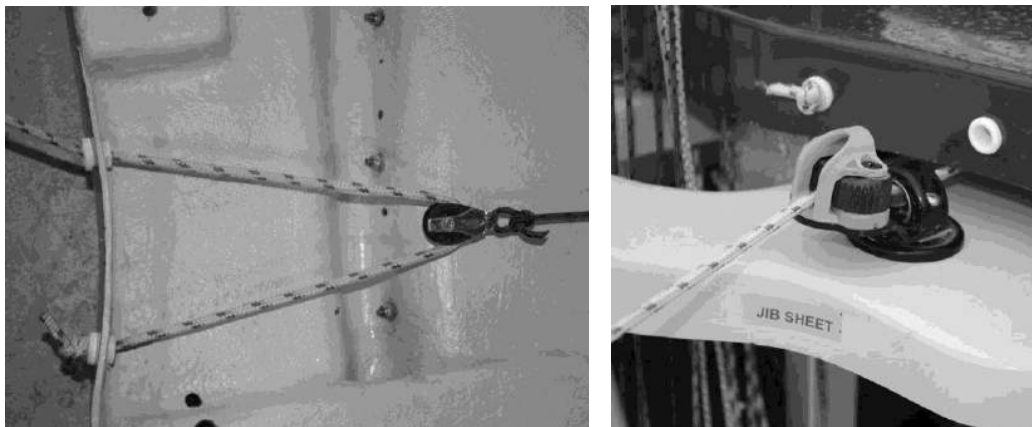


Jib Sheet

Before the cowling is fitted, rig the primary and secondary jib sheets. The primary jib sheet has a floating block that hangs under the cowling but above the gennaker sock and all other lines. The other end is passed up through the sheave at the forward end of the cowling, through the traveller block and is tied to a shackle.

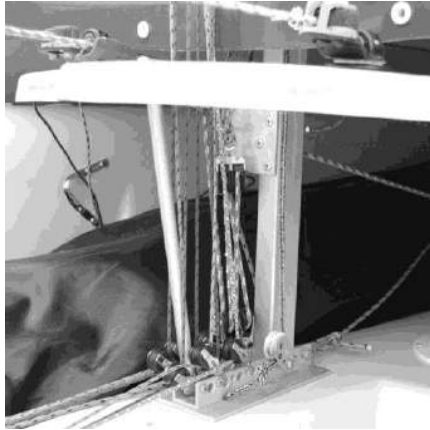


The secondary jib sheet is dead-ended with a stopper knot on the aft face of the cowling, passes through the deck eye, through the floating block and is cleated on the console.



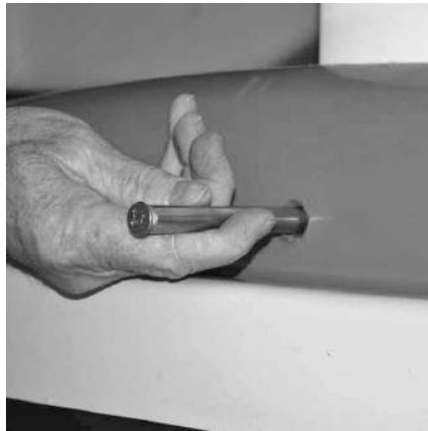
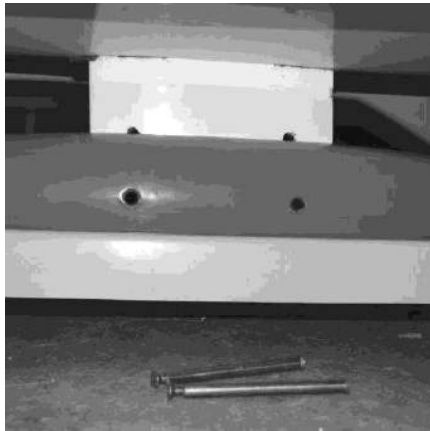
Cowling & Mast Post

Place the cowling on the bow and line up the holes. Ensure the mast post fits snugly within the rack, immediately aft of the gennaker tack line shackle. Secure using the supplied bolt and nyloc nut. Use the supplied screws and washers to secure the cowling to the deck. The cleat console is supplied fitted to the cowling. Ensure strut is fitted and micro-blocks are securely shackled to the rack.



Keel & Bulb

Position the bulb below the centreboard case, ensuring that the cavity is uppermost and free of dirt and debris. Smear a small amount of grease or petroleum jelly on the bottom 50mm of the centreboard faces and carefully lower through the centreboard case into the bulb cavity, taking care to align the heavy bulb with the board. Push the board home. Fit the supplied bulb pin with recessed phillips-head screws. Firmly tighten screws on both sides of the bulb simultaneously. Repeat for the second pin.



Cockpit Options (Seats & Footrests)

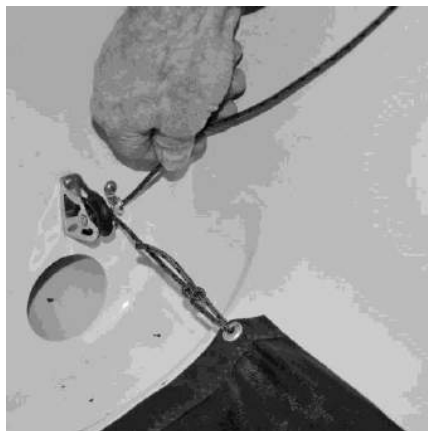
Fit seats or footrests as required by clamping to the cockpit tracks.

Gennaker Sock

Pass the narrow part of the gennaker sock through the throat of the cowling and underneath all lines. Tuck the hem of the sock up under the throat moulding and moving forward feed in between the cowling and the deck. Pull the sock forward and pass throat lines through the stemhead cover and tie a stopper knot on the port side. Purchase can be pulled on the starboard side using the towline attachment point.



Pass a "mouse" line through the sock to assist when reeving the spinnaker halyard. Attach without tension both fore and aft. Tie the gennaker sock to the saddle fitted on the aft bulkhead.



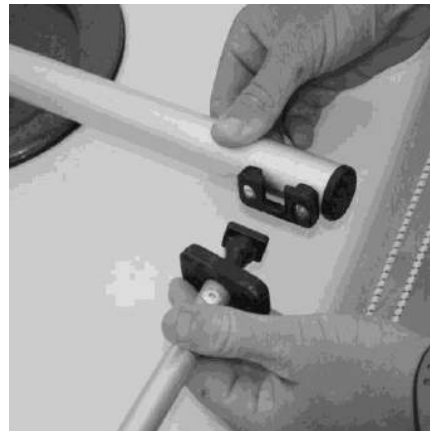
Rudder Boxes & Steering

Fit the rudder boxes by passing the rudder pin through the upper tube, through the bearing in the upper gudgeon, through the washer and into the lower gudgeon. Lift the washer above the hole drilled in the rudder pin and fit the snail clip to secure the rudder pin in position.



Tiller Steering

Fit the long tiller arms by depressing the spring clip and sliding into the rudder box tube. Rotate until the spring clip pops up in the locator hole. Ensure the universal fittings on the forward part of the tiller arms are both facing inboard. Attach the adjustable tie-rod to both tiller arms using the universal fittings (slide in and clip on the cover), making sure the central universal fitting faces forward. Attach the tiller extension to the central universal fitting.



Seat Steering

Fit the short tiller arms by depressing the spring clip and sliding into the rudder box tube. Rotate until the spring clip pops up in the locator hole. Ensure the universal fittings on the forward part of the tiller arms are both facing inboard. Attach the adjustable tie-rod to both tiller arms using the universal fittings (slide in and clip on the cover), making sure the central universal fitting faces forward. Attach the double block to the central universal fitting. Reeve steering lines as required.



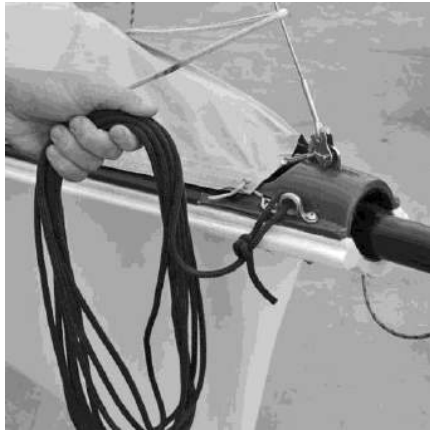
Adjusting the Tie Rod

Disconnect the universal fitting and rotate the end section to make longer or shorter. Tape in desired position.



Tow Line

Attach the tow line to the bow fitting.



Mast Assembly

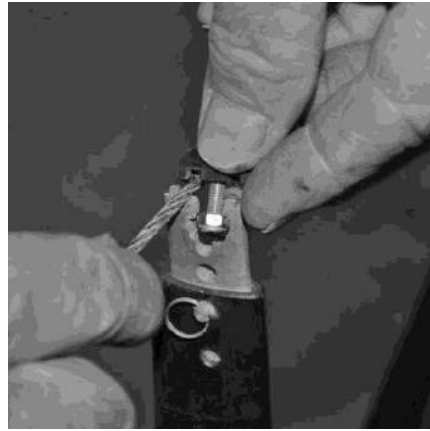
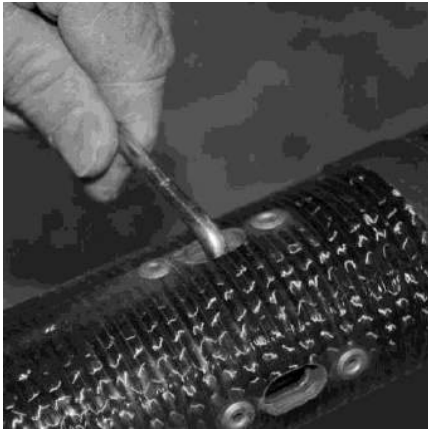
The SKUD 18 MkII composite mast is supplied with halyards reeved and spreader base fitted. After unpacking, slide the top section into the lower section, being careful not to twist the halyards.



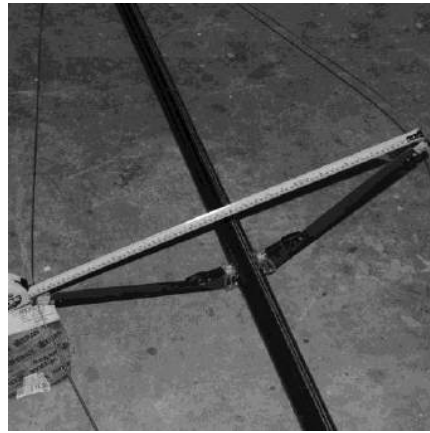
Fit the spreader arms and adjusters using the supplied bolts & nyloc nuts. Note that the adjusters are coded red and green for port and starboard.



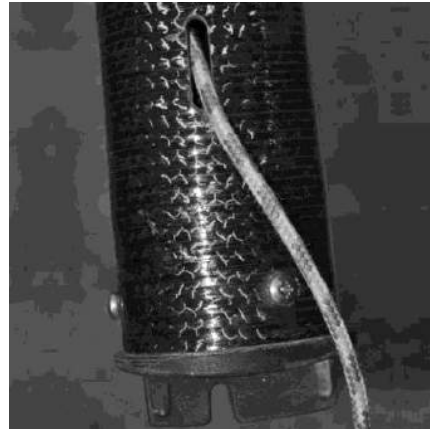
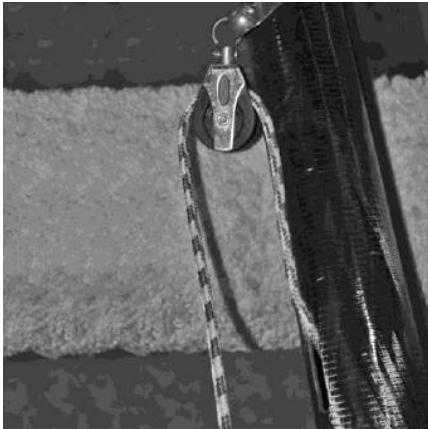
Fit the shrouds to the mast with the t-bar terminals by inserting and rotating the terminal 90°. Position the shroud wire in forward section of the spreader tip clamp.



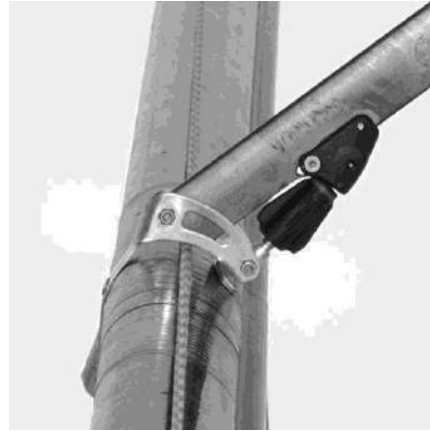
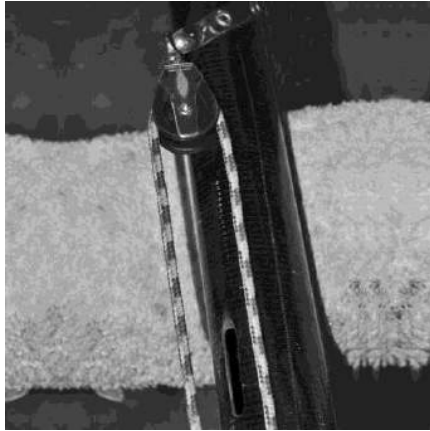
Remove the slack in the wire from the upper terminal and tighten the clamp. Repeat for the other side. Use the slide adjusters on the spreader tips and turn the barrel adjusters until wire to wire measurement is approximately 770mm and distance from aft face of mast to the transverse of the shrouds is approximately 190mm.



The gennaker halyard can be reeved internally or externally. For an internal system, the halyard is passed into the mast through the halyard slot below the halyard hoist block and exits just above the mast foot.



For an external system, the halyard is passed through the spreader fitting (it may be necessary to grind off some of the inboard end of the port spreader arm) and directly through the deck eye in the cowling.



The main halyard is a 2:1 system dead-ended at the masthead fitting and reeved inside the mast and exiting on the starboard side near the foot.



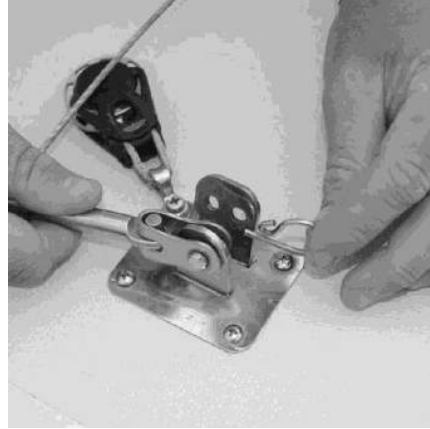
Test Rigging

Before launching the boat for the first time, stand the mast and run all halyards and control lines to make sure all components have been installed correctly and all functions are operational.

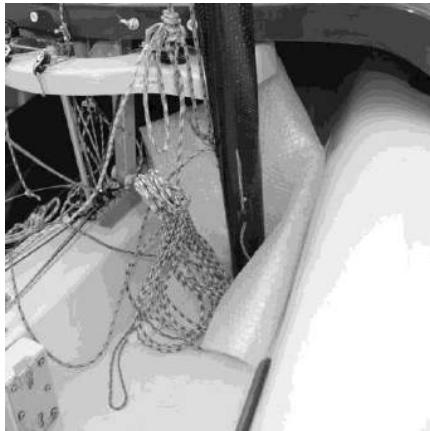
Rigging for Sail

Stepping the Mast

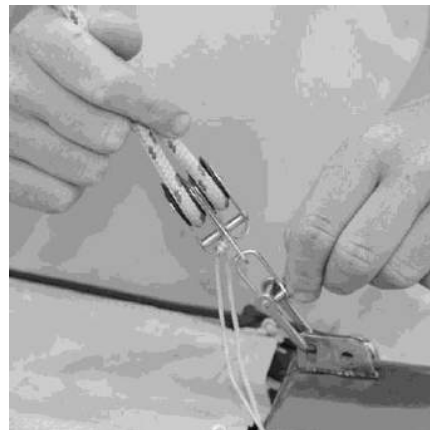
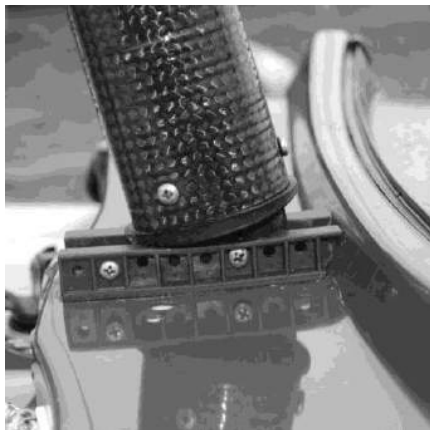
Lay the mast on the deck, attach the forestay using the t-ball fitting and attach the rig tensioner ("boat bender") to the strop and eye swaged onto the forestay. Attach the shrouds to the outer chainplates drilled with a single hole using the pin and snail clip.



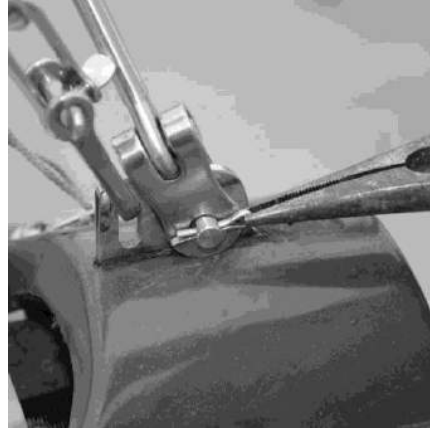
Place some cushioning on the floor of the cockpit to prevent damage when raising the mast to vertical by pushing against the step.



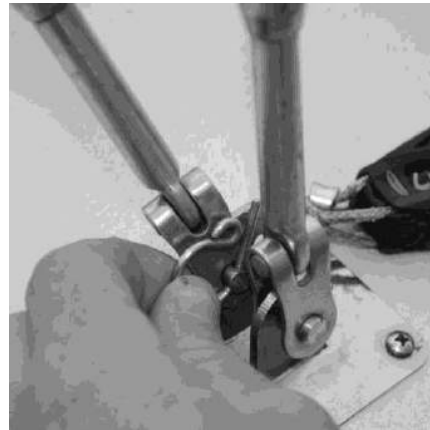
Lift mast and place in mast step. One person remains holding the mast forward, while another attaches the rig tensioner to the aft hole of the stemhead fitting or to the towing ring .



Haul down on the rig tensioner until the forestay pin can be inserted, then cleat off. Secure forestay pin with split pin or snail clip. Uncleat rig tensioner and slowly release load on to forestay. Remove rig tensioner.



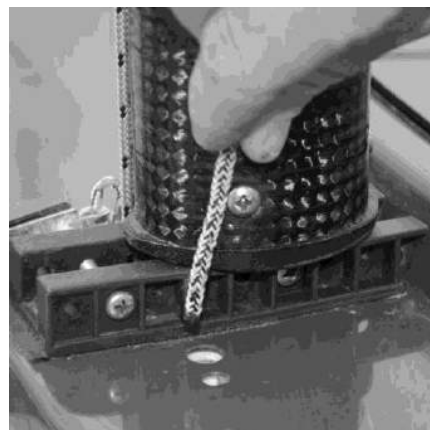
Attach the inner shrouds using the t-ball fittings and attach to the forward hole on the chainplates drilled with two holes.



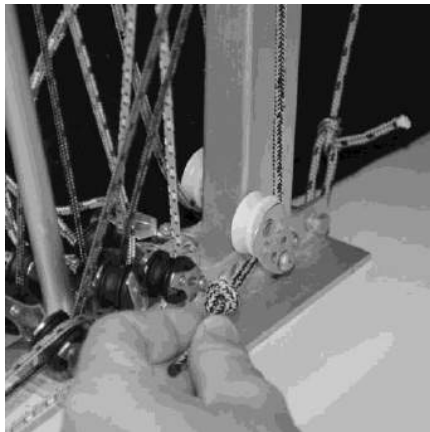
Adjust shroud tension to suit the sailing conditions.

Main Halyard

The main halyard exits the mast on the starboard side where the cleat is positioned and is led through the cowling to a turning block at the base of the mast post.



The halyard is led through the cowling and to the turning block at the base of the mast post to provide an ergonomic point from which to haul the sail aloft. Tie a stopper knot in the end of the main halyard once reeved.



Jib Halyard

The jib halyard exits the mast on the port side, is led through the cowling deck to a turning block at the base of the mast post from where the sail is hauled aloft.

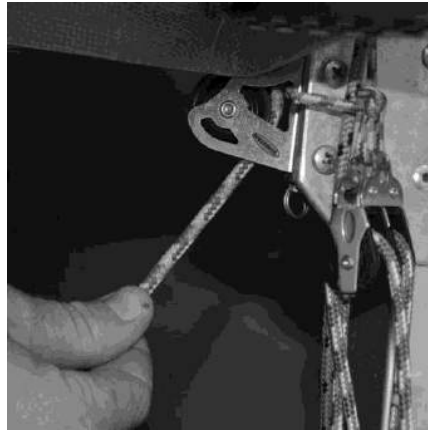


Once hoisted, the jib halyard tension is controlled by a separate hauling line attached to a cleat that is fitted to the halyard above the deck.



Gennaker

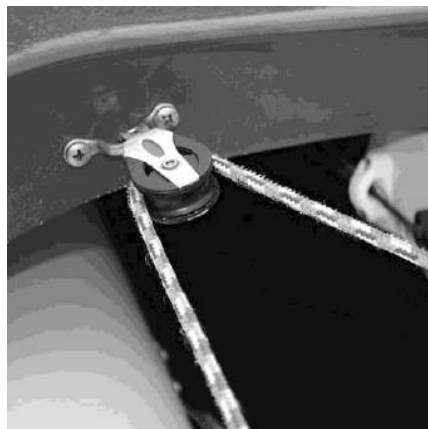
The spinnaker halyard can be reeved internally, exiting the mast on the port side, or externally, passing through the port spreader bracket. The halyard is led through the cowling deck and then forward through a turning block mounted on the upper section of the mast post.



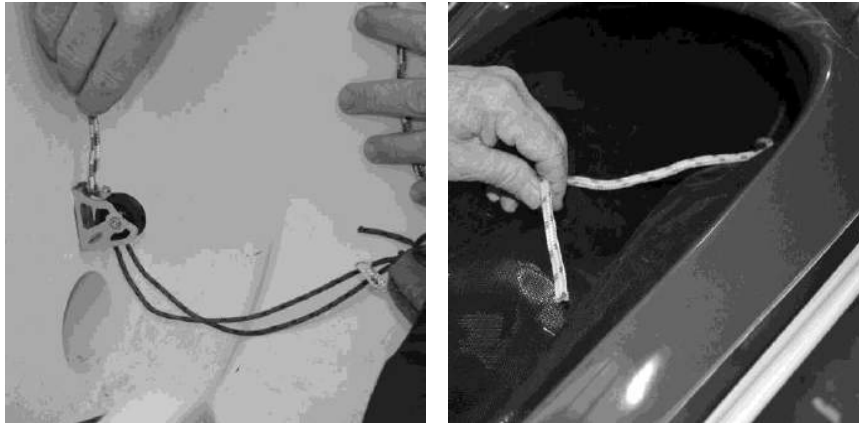
Use the mouse line to reeve the halyard end through the gennaker pole launcher block and back aft (above the sock and pole but below the jib sheets) between the cowling and the cleat console platter and through the spinnaker halyard deadeye and cleat.



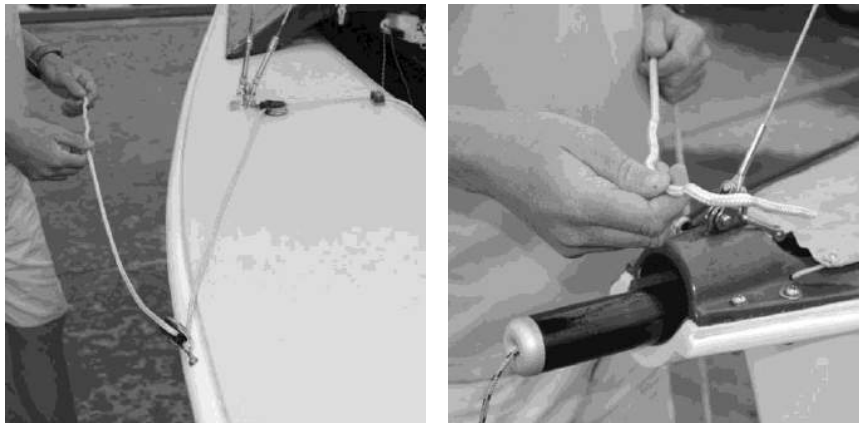
The halyard is then passed through the gennaker halyard tension block (attached to a length of bungee cord), forward to the turning block mounted on the port cockpit bulkhead or alternatively on the aft port face of the cowling.



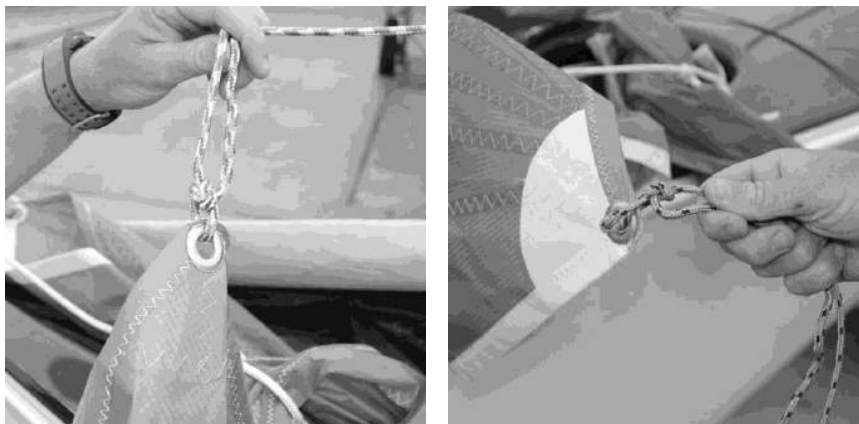
The halyard is led back to the turning block mounted on the aft cockpit bulkhead near the floor and from there into the gennaker sock. Use the mouse line to haul the gennaker halyard forward through the sock until it exits at the bow.



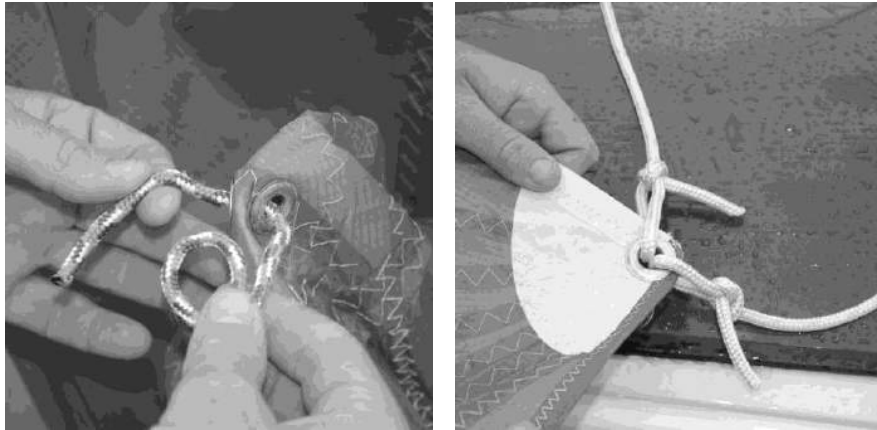
Reeve the continuous gennaker sheet through the gunwale turning block on the port side, forward to the ratchet block (checking the direction of travel for the ratchet to operate correctly), across the cockpit and through the starboard ratchet block, then aft through the gunwale turning block. Lead the sheet forward to the bow, passing around the forestay above the gennaker pole and bring aft to meet the other end of the sheet near the port chainplate. The gennaker is most commonly setup for a port hoist.



Taking the hoist end of the halyard and ensuring it runs clear from the hoist block to the port bow, tie a bowline on to the head of the gennaker. Attach the tack of the gennaker to the tack line using a bowline positioned as close as possible to the stopper knot.

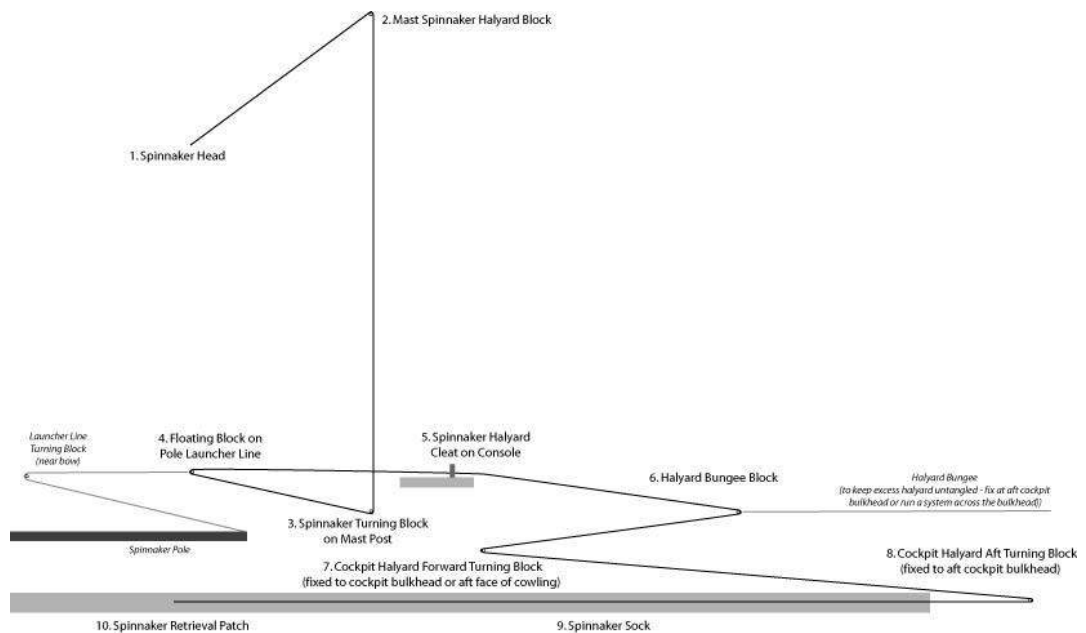


Untie the retrieval end of the halyard from the mouse line and tie a bowline through the eyelets in the gennaker retrieval patch, making sure this section of halyard runs clear from the throat to retrieval patch. Tie both ends of the gennaker sheet to the clew of the gennaker using bowlines.



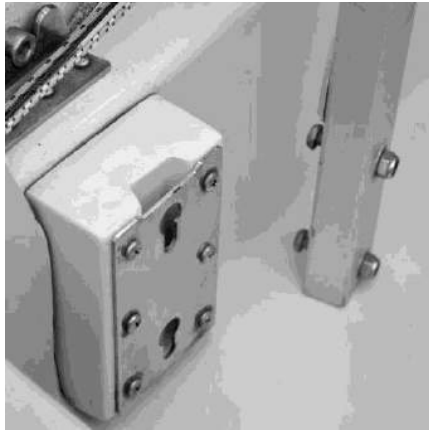
Haul on the halyard leading from the console to hoist the gennaker and launch the pole, then cleat off. To lower and retrieve the gennaker and retract the pole, release the cleat then haul on the halyard from the forward turning block until the gennaker is stowed in the sock and the pole has retracted.

Schematic of Gennaker Rigging

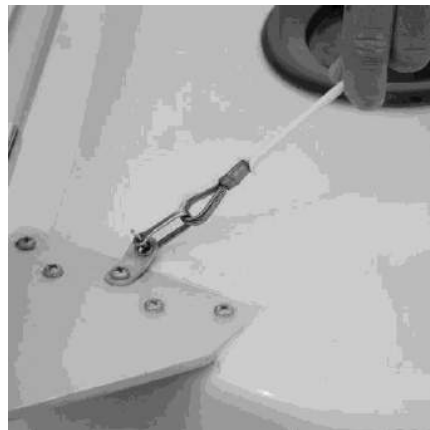


Launching by Crane

Fit the keel lifter to the keyhole plates on both sides of the centreboard case. Shackle the winch line to the saddle on the top of the centreboard and take up the slack on the winch line. Note: The SKUD 18 may be launched without the keel raised but extreme caution is advised when lowering on to the cradle.



Attach the short lifting slings to the aft holes on the inner chainplates and the long slings to the fittings on the upper gudgeons.



Attach to the crane hook and raise the boat taking care to avoid contact between the mast or spreaders and the crane jib. The aft slings may be adjusted in length to provide a slightly bow down attitude. Ensure the boat is controlled by a tag line when using a crane.



After disconnecting the lifting slings, carefully lower the centreboard with the manual winch, then remove the keel lifter. Insert the lock-down pin.



Fit the snail clip to secure the keel lock-down pin. Fit keel wedge (if supplied) and tap down behind the trailing edge until firm.

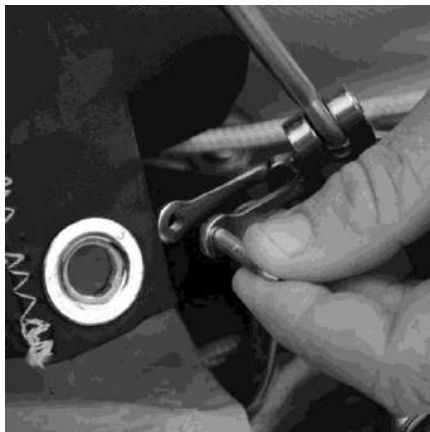


Jib

Unroll the jib and ensure all battens are fitted. Pass a loop through the eyelet in job head, pass the ball over the sail and through the loop pulling tight on the working part of the halyard. Starting at the head and working your way down to the tack, clip the jib luff on to the forestay using the press studs.



Shackle the tack eye on to the aft hole in the stemhead fitting. Wrap the jib luff pocket around the forestay and zip closed to hide the wire strop and eye.



Zip the luff pocket right down to hide the tack fittings. Shackle the primary jibsheet to the clewboard.



Hauling from the turning block at the base of the mast post, remove the slack from the jib halyard and attach the floating cleat on the halyard above the cowling deck. Use the purchase to adjust the jib halyard tension and cleat on the console. To lower, disconnect the cleat from the halyard.



Boom & GNAV (compression vang)

Attach the gooseneck and secure the pin with a ring or snail clip. Same for the compression vang post.



Use the cleat on top of the boom to set "topping lift". Attach compression vang line to vang tackle hook block



Main Sheet

The SKUD 18 mainsheet can be configured in a variety of ways – for centre cockpit sheeting, forward sheeting, or double ended. It can be reeved internally within the boom, or externally. Use the blocks and hangers supplied with the mast to configure to suit your needs.

For centre cockpit sheeting, pass the mainsheet through the boom, through the centre hanging block and tie a stopper knot (this end of the mainsheet can alternatively be passed down to a block and mainsheet cleat mounted on the console for forward sheeting or double-ended sheeting). Pass the other end through the outboard hanging block, forward through the floating traveller block and then through the next block fitted to the boom.

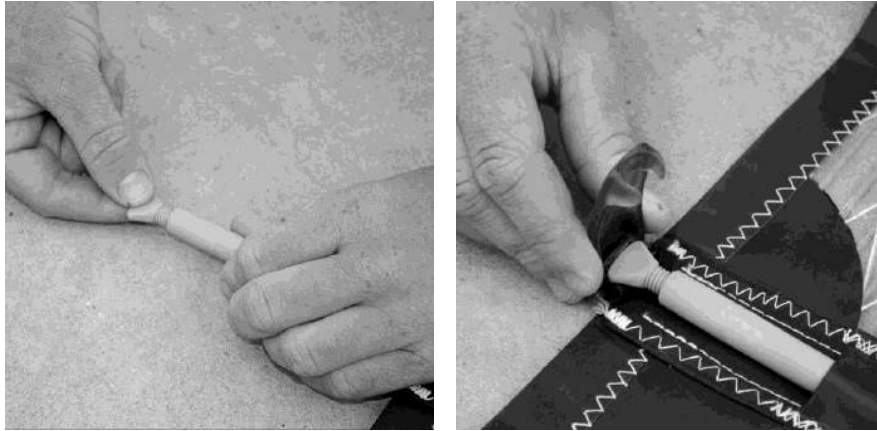


Pass forward through the block located above the cleat, down to the ratchet block and through the cleat.

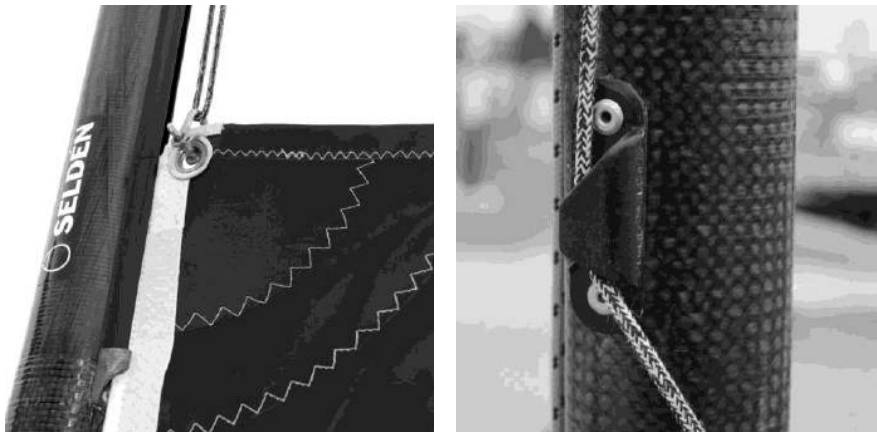


Mainsail

Unroll the main. Batten tension can be adjusted by screwing the tips in and out. Ensure the batten end latch is clipped securely in place on the batten tube.



Attach the halyard shackle to the head eyelet and hoist from the turning block at the mast post base. When fully hoisted, cleat off on starboard side of the mast.



Attach the outhaul line that feeds through the port side hanging block on the inboard end of the boom to the outhaul tackle. Ensuring the compression vang is also attached to its tackle, wrap the mainsail luff pocket around the mast.



Zip mainsail luff pocket closed and attach the cunningham hook blocks to the tabs on each side of the mainsail luff pocket.



Pass the clew strap under the boom and clip on to the lower webbing loop, ensuring mainsheet is still free to travel. Attach the outhaul clip to the webbing loop on the clew.



Care & Maintenance

Being Developed

Rig Tuning Guide

Being Developed

Class Association

The SKUD 18 is managed by the International Hansa Class Association. The SKUD 18 Committee of the IACA is responsible for development, competition, class rules and technical matters.

Owners or sailors can affiliate with the IACA through their National Hansa Class Association (NACA), but in countries where no NACA is established, members can join the IACA directly.

One free annual membership of the NACA/IACA is offered to each new SKUD owner. Where the owner is a company or organisation, that membership can be delegated to an individual.

Visit www.skud.org for more information.

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