

SUN ODYSSEY 33I



OWNER'S MANUAL



JEANNEAU

CROISIERE

088912
Index E

WELCOME ABOARD

Madam, Sir,

You have just taken delivery of your new JEANNEAU boat and we thank you for the confidence you have shown us in ordering a vessel of our brand. The whole JEANNEAU team welcomes you aboard.

A JEANNEAU is made to last, in order to bring you all the pleasure you expect from a vessel over a period of many years each boat is subject to the utmost attention to detail from the design stage right through to launching.

This manual was meant to help you to enjoy your boat comfortably and safely. It includes the boat specifications, the equipment provided or installed, the systems and tips on her operation and maintenance. Some of the equipment described in this manual may be optional.

Your JEANNEAU dealer will be able to help and advise you in the use and maintenance of your boat.

Read this user's guide/owner's manual carefully and get to know your boat before using it.

The better you know your vessel the more pleasure you will get from being at the helm.

The sea is a source for learning. Caution based on a knowledge of one's own limits and those of the boat is the pre-requisite for an accomplished sailor.

Even when your boat has been adapted for them, the sea and wind conditions corresponding to the design categories A, B, C and D may vary, ranging from severe conditions to strong storms subject to the risks of exceptional waves and gusts of wind, this meaning they are dangerous conditions in which only an experienced, fit and well trained crew manoeuvring a well maintained boat can sail in a satisfactory manner.

This user's guide/owner's manual is not a course in safety at sea or about sailing sense. If this is your first boat or if you change to a new type of boat which you are not used to, get some training in boat control and sailing to ensure your safety and comfort. Your dealer, your international sailing association or your yacht club will be very happy to recommend local sailing schools or professional instructors.

Make sure the sea and wind conditions will correspond to the category of your boat and you and your crew are able to handle the boat in these conditions.

Always listen to the weather forecast before you put out to sea.

Keep this user's guide/owner's manual in a safe place and hand it over to the new owner if you sell your boat.

You are advised to keep all the instructions and manuals provided by the boat equipment manufacturers (accessories...) in the same place as this manual

INTRODUCTION

THE USERS OF THE BOAT ARE INFORMED OF THE FOLLOWING:

■ This user guide/owner's manual is not a maintenance or repair guide. In case of difficulty do not hesitate to call on the services of your concessionaire JEANNEAU.

■ Any alterations which may affect the safety specifications of the boat must be assessed, carried out and recorded by persons qualified to do so. Any change in the distribution of the vessel's mass (adding a radar, altering the mast, changing an engine, etc) may affect the stability, trim and performance of your boat.

The SPBI shipyards may not be held responsible for any alterations which they have not approved.

■ The complete crew must be equipped appropriately.

■ In numerous countries, a licence, an authorization or a training course is requested. Make sure you have this legal authorization before you use your boat.

■ Adapt the use of your boat to her condition that wears out with time and use.

■ Any boat, however solid she may be, may be severely damaged if badly used. This is not compatible with a secure navigation. Always adapt the speed and direction of your boat to the conditions of the sea.

■ The boat shall not be loaded more with than the maximum load recommended by the builder, in particular the total weight of the food supplies, of the different equipment that are not supplied by the builder and of the persons on board.

■ The weight of the boat shall be properly distributed.

■ The stability is reduced when you add weight in the upper parts.

■ In case of heavy weather, the hatches, lockers and doors shall be closed in order to minimize the risk of water coming in.

■ Breakers are serious dangers to stability.

■ The water in the bilge shall be kept at its minimum.

■ The stability may be reduced when you tow a boat or when you lift heavy weights with the davits or the boom.

■ If your boat is equipped with a liferaft, carefully read the instructions. The boat must have on board all the proper safety equipment (lifejackets, buoys, harness, flares, liferafts, etc.) depending on the type of vessel, its certification, the country, the weather conditions encountered, etc.

■ The crew must be familiar with the use of all the safety equipment and the emergency safety procedures (MOB, towing etc.). Sailing schools organise regular training sessions.

■ Anyone on the deck shall wear a life jacket or a buoyancy aid.

The safety regulations as defined by the sailing code and enforced by the "COLREG" should be observed.

NAME PLATE:

A part of the data is shown on the builder's plate fixed to the boat. The explanation of these data is given in the appropriate chapters of this manual.

IDENTIFICATION OF VESSEL:

The vessel's identification is found on the builder's certificate delivered with the boat and is engraved on the starboard aft side.

So as to be able to continuously improve their product the SPBI shipyards reserve the right to make any alterations in design, layout or equipment which they judge necessary.

That is the reason why the specifications and information given are not contractual, they may be modified without prior notice or up dates.

This owner's manual is designed in accordance with the ISO 10240 standard requirements, it has a general purpose and it may sometimes list some equipment or accessories or deal with some points or questions that are not relevant to your own boat.

The different warnings used throughout this guide are broken down as follows.



DANGER

Indicates the existence of a serious inherent danger with a high risk of death or serious injury if the appropriate precautions are not taken.



WARNING

Indicates the existence of a danger which could lead to injury or death if the appropriate precautions are not taken.

PRECAUTION

Indicates a reminder of safety practice or draws attention to dangerous practices which could cause injury to persons or damage to the vessel or to its components.

PIECE OF ADVICE - RECOMMENDATION

Indicates a recommendation or advice for carrying out actions or manoeuvres which are appropriate to the intended result.



HISTORY OF UPDATES

- Index A..... 06/2009
- Index B..... 11/2009
- Index C..... 02/2010
- Index D 09/2010
- Index E..... 04/2011

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SUN ODYSSEY 33i Anglais
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PERSONAL NOTES



SPECIFICATIONS AND WARRANTY

TECHNICAL SPECIFICATIONS

CERTIFICATION

DESIGN CATEGORY

YOUR BOAT

TERMS AND CONDITIONS OF WARRANTY

TECHNICAL SPECIFICATIONS

L.O.A.....	9,96 m
Hull length.....	9,74 m
L.W.L.....	9,16 m
Overall width.....	3,42 m
Beam.....	3,34 m
Waterline beam.....	2,73 m
Air draught (Classical mast / Jib reefer) - Empty vessel.....	15,16 m
Air draught (Mast Performance) - Empty vessel.....	15,46 m

Keeled version - Deep draught keel

Draught.....	1,90 m
Ballast weight.....	1 500 kg
Light displacement.....	4 900 kg
Displacement with maximum load (Category A).....	6 250 kg
Displacement with maximum load (Category B/C/D).....	6 400 kg
Maximum load recommended by the builder (Category A).....	1 350 kg
Maximum load recommended by the builder (Category B/C/D).....	1 500 kg

Keeled version - Shallow draught keel (B/C/D)

Draught.....	1,45 m
Ballast weight.....	1 500 kg
Light displacement.....	4 875 kg
Displacement with maximum load.....	6 375 kg
Maximum load recommended by the builder.....	1 500 kg

Keeled version - Shallow draught keel (A/B/C/D)

Draught - Maximum.....	1,55 m
Ballast weight.....	1 695 kg
Light displacement.....	5 075 kg
Displacement with maximum load (Category A).....	6 425 kg
Displacement with maximum load (Category B/C/D).....	6 575 kg
Maximum load recommended by the builder (Category A).....	1 350 kg
Maximum load recommended by the builder (Category B/C/D).....	1 500 kg

Drifter version

Draught - Centreboard lowered.....	2,20 m
Draught - Centreboard upright.....	0,85 m
Ballast weight.....	1 516 kg
Light displacement.....	5 070 kg
Displacement with maximum load - (Category B).....	6 420 kg
Displacement with maximum load - (Category C & D).....	6 570 kg
Charge maxim registered (Category B).....	1 350 kg
Charge maxim registered (Category C & D).....	1 500 kg

Including the mass of the persons who are authorized on board (75 kg/165 lbs per adult), the supplies, the liquids that can be used (fresh water and fuel) in fixed completely full tanks, the additional loads, the optional equipments, the liferaft and the scope for load.

Total mass of liquids (all tanks full).....	344 kg
Freshwater capacity.....	160 l
Fuel oil tank capacity.....	130 l
Refrigeration unit capacity.....	100 l
Sewage water capacity.....	80 l

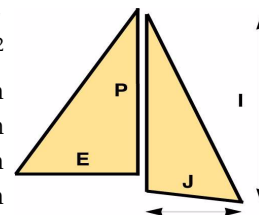


Recommended maximum power..... 16 kW
 Maximum motorisation mass 120 kg
 Battery capacity..... 2 X 70A + 70A
 Cabins..... 2
 Architect Marc LOMBARD, Jeanneau Design

NOTE: The capacities indicated are maximum (including options).

SAILS CLASSICAL JIB REEFER PERFORMANCE

Mainsail (classic)	26,5 m ²	25,7 m ²	27,6 m ²
Genoa.....	25 m ²	25 m ²	27,7 m ²
Spinnaker	100 m ²	100 m ²	100 m ²
I.....	12,80 m	12,80 m	13,10 m
J.....	3,71 m	3,71 m	3,71 m
P	12,13 m	12,13 m	12,43 m
E.....	3,90 m	3,90 m	3,90 m



The sails are the main propulsion means of the SUN ODYSSEY 33 I.

CERTIFICATION

CE Category	Maximum number of persons			
	Keeled version Deep draught keel	Keeled version Shallow draught keel (A/B/C/D)	Keeled version Shallow draught keel (B/C/D)	Drifter version
A	6	6	/	/
B	8	8	8	6
C	10	10	10	8
D	10	10	10	10

DESIGN CATEGORY

Design category	Wind force (Beaufort scale)	Significant height of waves to be considered (in metres H 1/3)
Vessel designed for navigation: A - "At high sea" B - "In open sea" C - "Near to the coast" D - "In sheltered waters"	Over 8 Up to and including 8 Up to and including 6 Up to and including 4	Over 4 m Up to and including 4 m Up to and including 2 m Up to and including 0,5 m

The SUN ODYSSEY 33i model conforms to the directive 2003/44/CE.



CATEGORY A

This boat is designed for sailing in winds that may exceed force 8 on the Beaufort scale and in waves of a significant height of 4 m and more, and the boat is to a large extent self-sufficient. Unusual conditions such as hurricanes are excluded.

You may meet with such conditions when you sail long crossings, for instance across the oceans, or close to the shore, when you are not protected from the wind or waves over several hundreds of nautical miles.

CATEGORY B

This boat is designed for sailing in winds that may exceed force 8 on the Beaufort scale and in waves of a significant height of 4 m or less.

You may meet with such conditions when you sail on the open sea or close to the shore, when you are not protected from the wind or waves over several hundreds of nautical miles. You may also meet with these conditions on an inland sea with a size sufficient to generate the wave height in question.

CATEGORY C

This boat is designed for sailing in winds that may exceed force 6 on the Beaufort scale and in waves of a significant height of 2 m or less.

You may meet with such conditions in exposed inland waters, in estuaries and in coastal waters with moderate weather conditions.

CATEGORY D

This boat is designed for sailing in winds not exceeding force 4 on the Beaufort scale and in waves of a corresponding height (significant height of 0,5 m or less).

You may meet such conditions in protected inland waters and in coastal waters when the weather is fine.

Note:

The significant height of a wave is the average height of the upper third of the waves, that approximately corresponds to the height of a wave an experienced observer can assess. Some waves will be twice as high as this value.

YOUR BOAT



Version

NAME OF THE BOAT

NAME OF THE OWNER

ADDRESS

HULL NUMBER

SERIAL NUMBER

REGISTRATION NUMBER

DELIVERY DATE

DOOR KEY NUMBER

MAKE OF ENGINE

ENGINE SERIAL NUMBER

ENGINE KEY NUMBER

SPECIFICATIONS AND WARRANTY

Your agent



JEANNEAU

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TERMS AND CONDITIONS OF WARRANTY

Article 1

At the time of delivery of the boat the parties sign the Certificate of Delivery supplied by JEANNEAU for this purpose and this is equivalent to an agreement of compliance by the purchaser-user.

The acceptance of delivery of the boat by the purchaser-user without reserve is equivalent to the acceptance of the apparent condition of the boat in pursuance of the provisions of Section 1642 of the Civil Code.

The terms of warranty are engaged only upon:

- the return to the After Sales Department in JEANNEAU of the duly filled in tear-away section of the Certificate of Delivery and of the Warranty Registration Card,
- the carrying out of the controls and service set forth by JEANNEAU, being made clear that the possible expenses of handling, transportation, parking, escorting which have been incurred in the execution of the above mentioned directives are born exclusively by the purchaser-user.

Article 2

The warranty is valid for a duration of 24 months from the date of delivery of the boat to the first purchaser-user and it is strictly limited as the manufacturer chooses, to the replacement or free repair of any part that has been found defective by the technical specialists of the latter and no compensation whatsoever shall be paid in this respect.

As for components and accessories which visibly bear the trademark of another supplier, the warranty shall be limited to the warranty provided by said supplier.

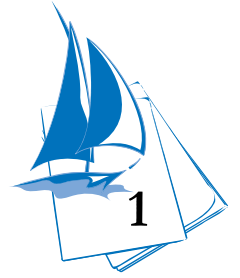
Article 3

With the exception of any prototype boats, RIGIFLEX boats, boats used for business purposes, or boats specifically designed and/or equipped for racing, which have as a contractual warranty only that indicated in article 2 above, the structure of the hull, the deck and the hull to deck joint and the hull to keel joint is warranted against all manufacturing defects identified by the technical specialists of JEANNEAU, for a period of 5 years for monohull boats and 3 years for motor boats and multihull boats.

However, any incident that affects the structure and does not result from a manufacturing defect covered under the conditions of warranty, that would have resulted or not in the repair of the deck or hull, shall effectively cancel all terms and conditions of warranty and without prejudice immediately.

The warranty period starts from the date of the first commissioning of the boat and at the latest from the last day of the model year in which the boat was built, i.e. August 31 of the said year.

This warranty is strictly limited to the free repair of the manufacturing defects either in our yard or by a repair shop or shipyard we authorized and no compensation whatsoever shall be paid in this respect.



Article 4

The following items are excluded from the terms of warranty as stated in articles 1 and 2 above:

- The transport and carriage expenses for the boat and parts as well as expenses and/or possible losses resulting from the inability to use the boat and/or accessories, shall be born by the purchaser,
- The deterioration or damages hereinafter listed as well as their consequences:
 - Normal wear and tear,
 - Cracks, cracking or fading of the gel coat,
 - Damages resulting from:
 - changes and modifications or repairs, even partial, performed in workshops different from those authorized by our company,
 - the failure to follow the recommended maintenance procedures stated in the owner's manual delivered with the boat, or failure to follow the professional procedure,
 - improper use, in particular careless use, or rash use, misuse or abnormal use,
 - the participation in competitive events,
 - acts of negligence as regards to the necessity to take the necessary measures of conservation,
 - an accident or catastrophe such as explosion, fire, flood, storm, lightning, transport, riot, theft, collision,
 - unsuitable storage or transport conditions.

Article 5

The bringing into play of the warranty shall extend the period of warranty for a period equal to the one that is necessary to carry out the repair work under the warranty, on the condition that the afore-mentioned repair work requires an immobilization of the boat for minimum 7 consecutive days.

Article 6

In order to enjoy the above-specified warranty, the purchaser-user shall present the duly filled in Certificate of Delivery and Warranty document each time a claim is presented and in a written, precise and justified document he shall notify his authorized dealer-seller the defect or fault within 15 days from the day when the defect or fault is discovered otherwise he will not enjoy this warranty.

The authorized dealer-seller shall inform the builder about the purchaser-user's claim within a period of 8 days from its receipt otherwise he shall have to bear the consequences resulting from his delay.

Article 7

The authorized dealers, agents or sellers of JEANNEAU do not have the authority to alter the above warranty but, on their own account and in their own responsibility, they may grant possible additional warranties which can bind the builder under no circumstances.



SAFETY

SAFETY EQUIPMENT

GENERAL INFORMATION

GAS SYSTEM

RECOMMENDATIONS FOR GAS

FIGHT AGAINST FIRE

BILGE PUMP SYSTEM

EMERGENCY TILLER

SAFETY EQUIPMENT



Swimming ladder (means of coming back onboard) (Reference 1)



Liferaft (Reference 2) - not supplied



Locker open



Locker closed

GENERAL INFORMATION



DANGERS

The major hazards concern:

- The gas system.
- The electrical system.
- Manoeuvring the vessel and the sails.
- The motorisation.

Please refer to the relevant paragraphs.

DANGER



- Fuel leaks or vapour represent a danger of fire and explosion.
- Leave the engine compartment ventilated for a long time before starting the engine.
- There may be danger of fire or explosion if direct or alternating current systems are incorrectly used. Refer to chapter Electricity.
- Some boats are equipped with a retractable ladder or removable. Make sure the ladder is in place and deployed as soon as you are on board.
- Reduce speed in waves.

WARNING



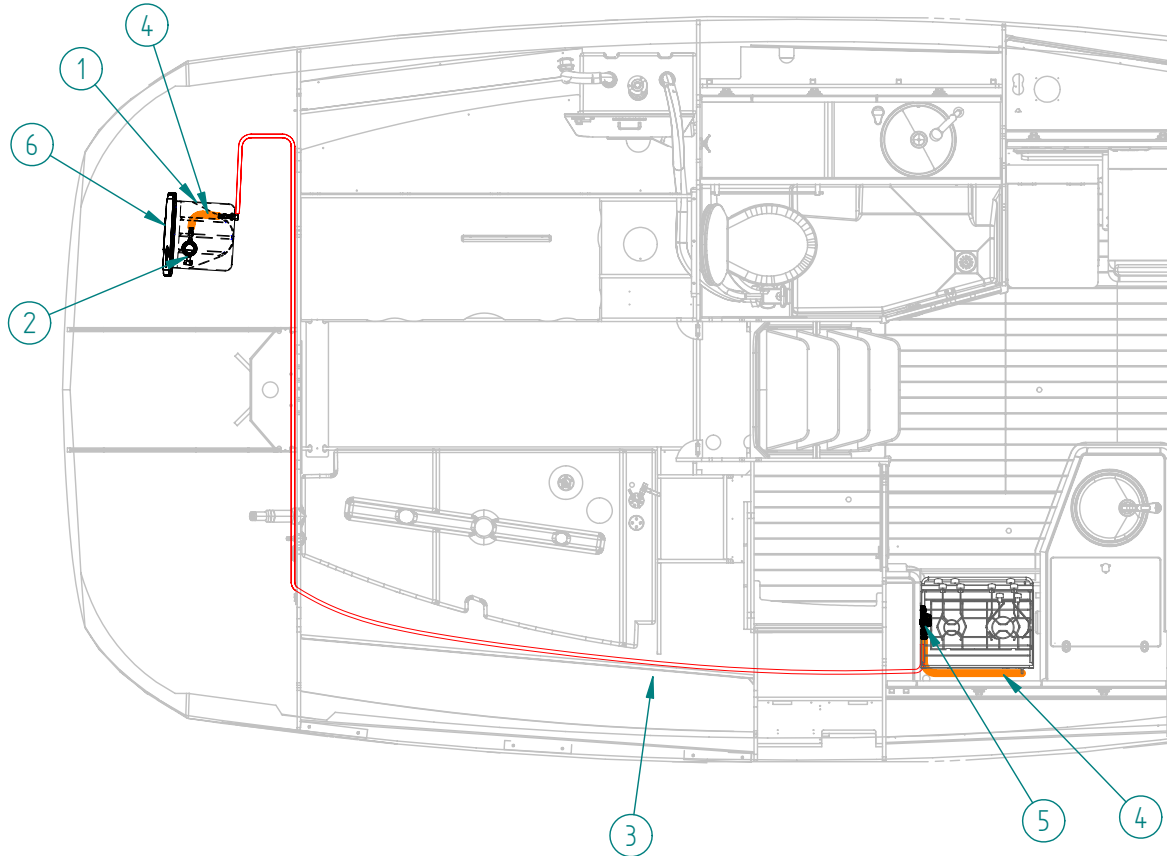
- Before you sail, list the compulsory safety equipment.
- Don't exceed the number of persons indicated in the chapter 'Specifications'.
- The total weight of the persons and equipment must never exceed the maximum load recommended by the manufacturer.
- Use the seats provided.

PIECE OF ADVICE - RECOMMENDATION

- When sailing, never padlock or lock the liferaft locker.
- Before you sail to sea, carefully read the instructions indicated on the liferaft to launch it.
- Close the deck hatches and fore portholes each time before each trip (including the companionway hatch in heavy weather).
- Don't store anything below the floorboards.
- Be careful to fasten all movable elements when the vessel is underway.

GAS SYSTEM

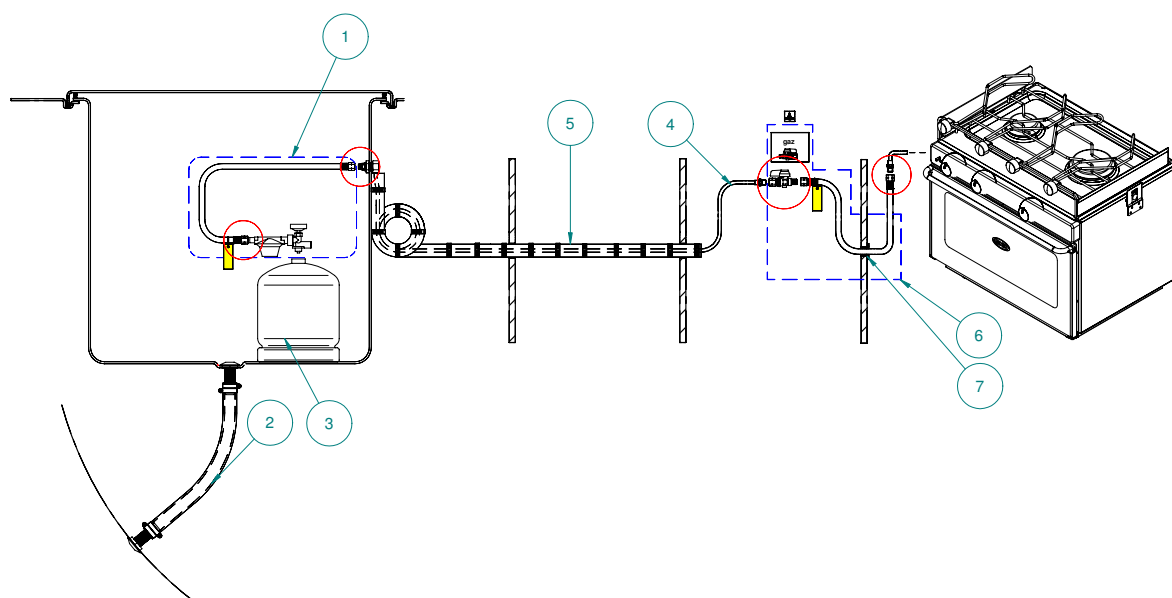
LAY OUT OF



REF	Designation
1	Gas cylinder locker
2	Gas kill valve on bottle
3	Gas pipe
4	Gas rubber tubing
5	Tap to turn off the gas
6	Vent hole Gas cylinder locker



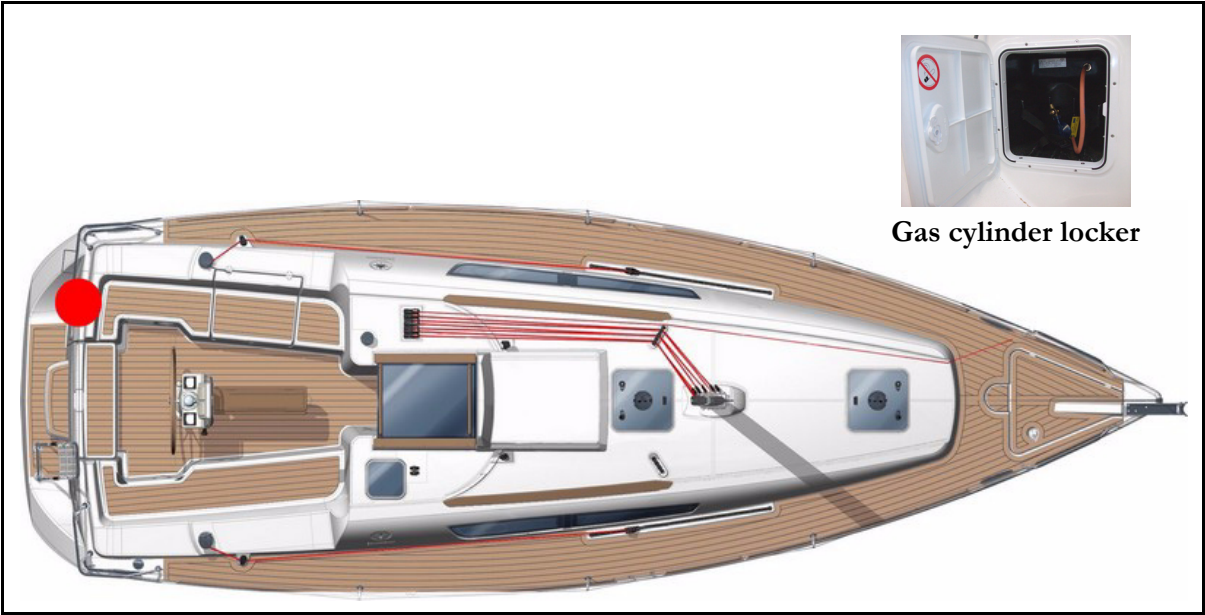
SCHEMA - EUROPE



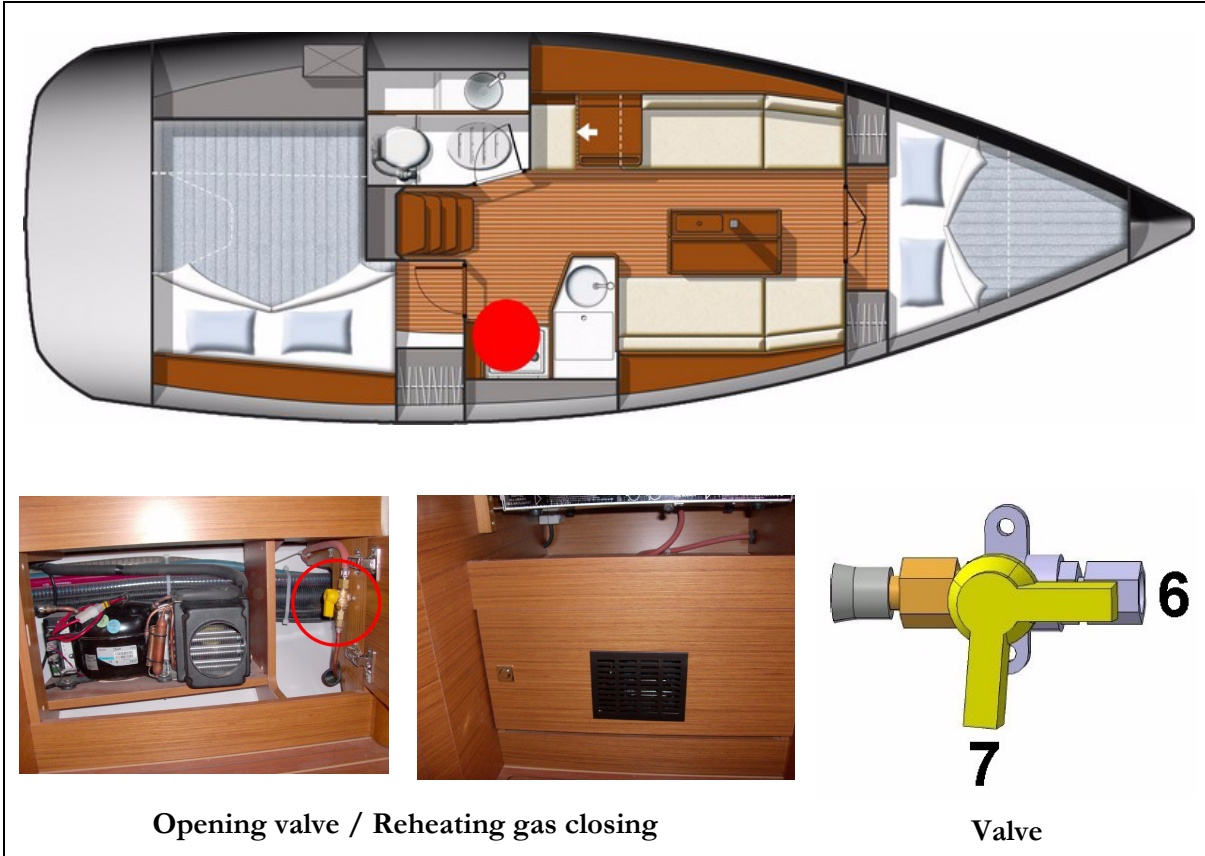
SAFETY

REF	Designation
1	Connection kit gas bottle
2	Drain
3	Gas cylinder
4	Connection kit gas copper
5	PVC girdled sleeve
6	Gas appliance connection kit
7	Wire passage

GAS CYLINDER LOCKER - LAY OUT OF



NOTE: Same position for the other layouts.

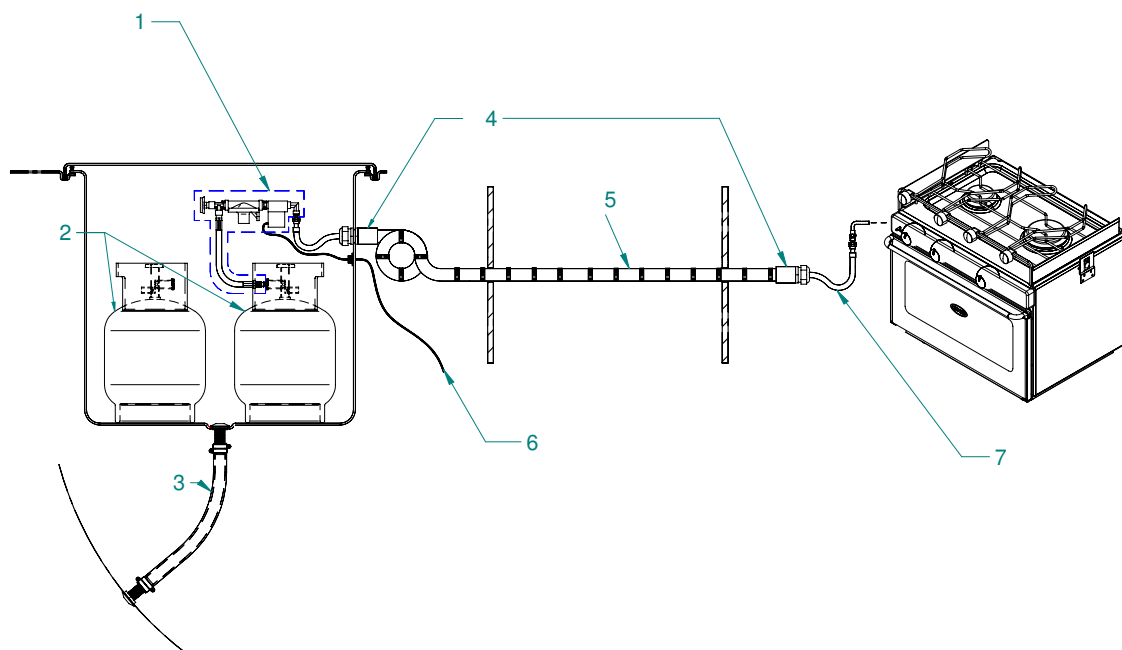


REF	Designation
6	Open valve
7	Closed valve



SCHEMA GAS - US

Schematic diagram



SAFETY

REF	Designation
1	Regulator valve 12V
2	Gas cylinder
3	Drain
4	Stuffing box
5	PVC girdled sleeve
6	Electromagnetic valve for gas 12V
7	Pipe Propane Plastic

RECOMMENDATIONS FOR GAS

Type of cylinder: butane, service pressure 10 kg/cm² or according to current standards of your country).

Close the valves on the system and on the cylinder when the appliances are not used. Close the valves before you change cylinders and immediately in case of emergency.

Never leave unattended an appliance that is working. Don't install or store flammable materials above or over the stove (curtains, papers, napkins etc.).

Make sure that the valves of the appliances are closed before you open the cylinder or hose valve.

In case you smell gas or find that the burners have gone out (although appliance models cut off automatically if the flames go out), turn off the valves of the appliances. Do ventilate the boat in order to get rid of any residual gas. Find the cause of the problem.

Regularly test the gas system in order to detect any gas leak.

Check all the connections using water and soap or detergent, closing the valves of the appliances and opening the valve on the cylinder.

If you detect a leak, close the valve of the cylinder and repair before you use it again.

The appliances use the oxygen of the cabin and release combustible gases. Ventilate your boat when using appliances.

Don't obstruct the air vents and at least leave the door open. Don't use the oven or stove as back up heaters.

Lock the stove oven when being not used in order to avoid damaging the tubes when sailing.

WARNING



- For all recommendations concerning gas: Refer to chapter 2, «Safety».
- Don't use a solution containing ammonia.
- Don't use a flame to detect leaks.
- Don't smoke, don't use a naked flame when you change the gas cylinder.

PIECE OF ADVICE - RECOMMENDATION

- Shut off the gas supply at the bottle as well as the cooker tap.
- When changing the cylinder, refit the cap in place on the regulator threaded section (to avoid corrosion).
- For winter storage instructions and precautions, refer to Chapter 13.



Never obstruct the fast access to the components of the gas system. Keep the taps of the empty cylinders turned off and the cylinders disconnected.

Keep the protection, lids, covers and taps in their places.

Don't use the gas cylinder storage place to store other equipment. Only use the proper locker to store the gas cylinders.

Regularly check and replace the rubber tubings that link the cylinder to one end of the circuit and the stove to the other one, depending on the norms and regulations in force in your country.

Pay particular attention to keep in good condition the screw thread of the cylinder on which the regulator is. Check the condition of the regulator every year and change it if necessary. Use regulators identical to the ones that are fitted.

Have the repairs carried out by someone skilled.

POSITION OF GAS BOTTLE

The locker for storing gas bottles can be reached through the cockpit under the foldaway seat. The locker can accommodate a gas bottle. The locker is equipped with bottle fastening straps.

FIGHT AGAINST FIRE

It is the owner's or the skipper's responsibility:

- To have the extinguishers checked in pursuance of the instructions given.
- Use extinguisher replacements with equivalent features (same capacity and fire resistance) if the ones in place are out of date or have been used.
- To tell the crew:
 - where the extinguishers are and how they work,
 - where the release aperture is situated in the engine compartment,
 - where the emergency exits are.
- Make sure the extinguishers can be reached easily when people are on board.
- Make sure that the ventilation openings in the engine (and generator, if installed) compartment are well cleared.

Keep the bilge clean. Regularly check that there is no fuel or gas vapour.

Do not store combustible materials in the engine compartment.

If non-combustible materials are stored in the engine compartment they must be secured so there is no danger of them falling on machinery and they do not obstruct access to and from the compartment.

Always fasten the curtains open when the gas cooker is working.

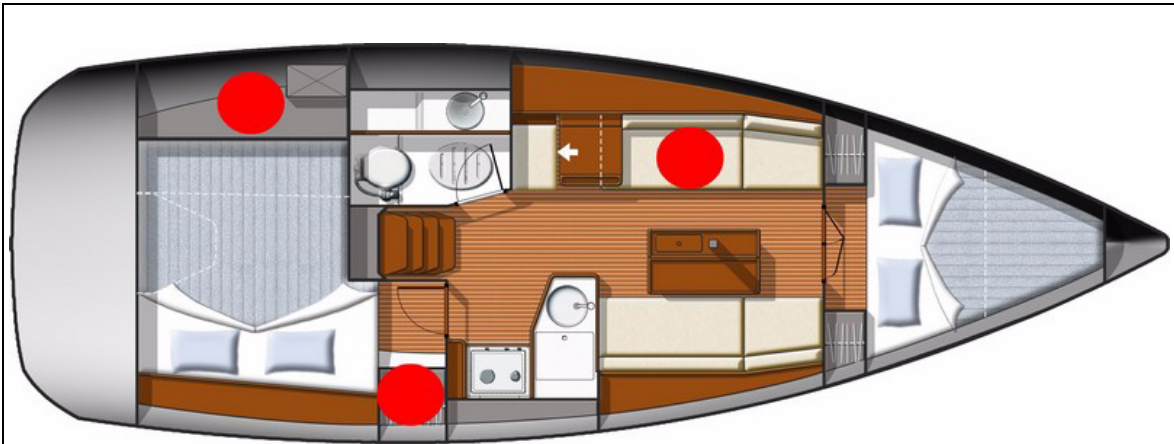
Exits other than the doors and hatches of the main companionway, equipped with permanently fitted ladders, are identified with a symbol.



WARNING

- Keep an extinguisher handy in case the fire should start again.
- Fire fighting equipment (portable extinguishers, fire blankets and buckets) must be permanently and immediately accessible.

EMERGENCY EVACUATION AND LOCATION OF EXTINGUISHERS

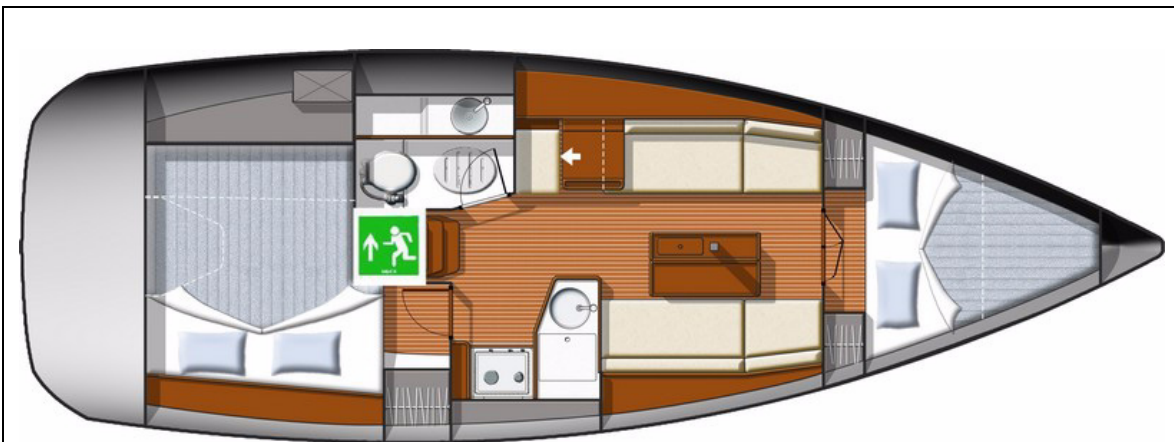


Position of portable extinguishers (not supplied)

Hanging locker - Aft cabin

Saloon seating

Cockpit locker



Emergency exits in case of fire

- Companionway



EXTINGUISHERS

The extinguishers are part of the compulsory equipment.

An extinguisher or a fire blanket shall be set less than 2 m from any flame appliance.

Extinguishers must be placed less than 5 m from any berth.

It is compulsory for an extinguisher to be placed less than 2 m away from the extinguisher aperture of the engine compartment.

An extinguisher shall be less than 1 m from the steering station.

The extinguishers must be in position (see "Extinguisher positions" diagram).

Extinguisher, per unit, minimum capacity 5 A/34 B.

For the Sun Odyssey 30i: 15A/102B (3 extinguishers of this minimum capacity).



DANGER

- There may be danger of fire or explosion if direct or alternating current systems are incorrectly used (Refer to chapter Electricity).



WARNING

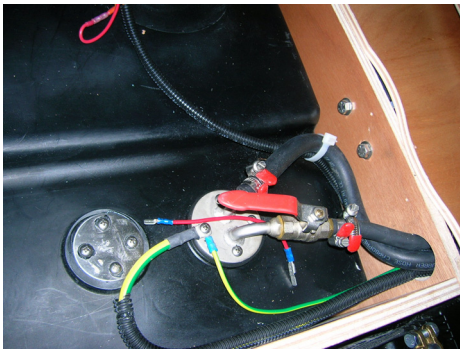
- Do not obstruct the ways to the emergency exits.
- Do not obstruct the safety controls (fuel oil valves, gas valves, power switches).
- Do not block the extinguishers placed on shelves.
- Do not leave the vessel unattended when a cooker or heater is in use.
- Do not use gas lamps in the vessel.
- Do not alter the vessel systems (electrical, gas or fuel).
- Do not fill up a tank or change a gas cylinder when an engine is running or a cooker or heater is on.
- Do not smoke while handling fuels or gas.



WARNING

- The **CO²** extinguishers shall be used only to fight **electrical fires**.
- Clear the area immediately after use in order to avoid suffocation.
- Air before entering.

FUEL SUPPLY VALVE

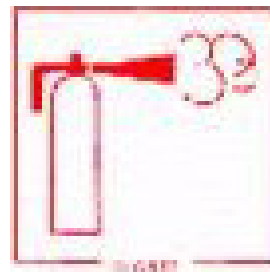


Access: Under the bed -Aft cabin

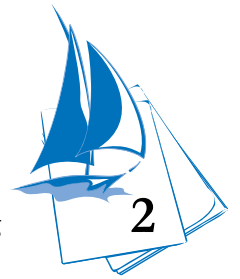
EXTINGUISHER APERTURE OF THE ENGINE COMPARTMENT



Lay out of



A diagram enables it to be found easily

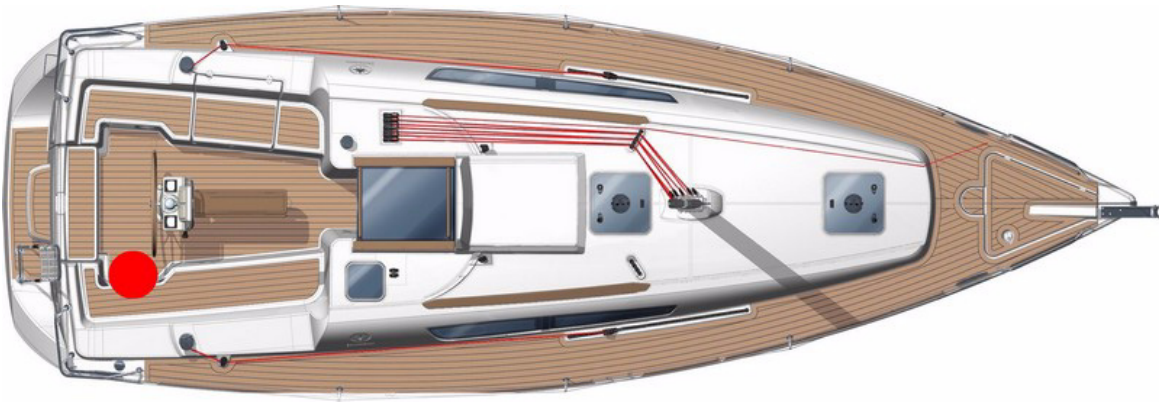


The engine compartment has an aperture that makes it possible to inject the extinguishing product inside without opening the usual access hatches.

INSTRUCTIONS TO FOLLOW IN CASE OF A FIRE IN THE ENGINE COMPARTMENT BILGE:

- Stop the engine.
- Switch off power and stop fuel supply.
- Block off the air supply from the air inlets and outlets of the engine.
- Inject the extinguishing product through the aperture.
- Wait.
- Open the access hatches and repair.

MANUAL BILGE PUMP



Lay out of



Operation



Capacity: 40,5 liter / minute

BILGE PUMP SYSTEM

PROCEDURE TO BE FOLLOWED

- Switch on the electric bilge pump.
- If necessary activate the manual pump.
- Identify the source of the leak by tasting the water and decide on the relevant action to be taken:
 - freshwater = watertank leak.
 - seawater = breach of hull.



ELECTRIC BILGE PUMP

Lay out of:

- In the sump well in the middle of saloon
- On plumbing board



Capacity: 15 liter / minute

Operation:

The electric bilge pumps are connected to the 12V service circuit. To enable operation the 12V circuit must be activated by turning on the battery switches.

You can energize the electric bilge pump from the electrical panel.

On the electrical panel - three possible positions : OFF / Automatic / Mechanically operated.

In the automatic position each pump is set off automatically by a trip switch located in the sump area or in the bottom of the hull.

MANUAL BILGE PUMP

The manual bilge pump is in the cockpit

The control arm of the pump shall be kept accessible whatever the circumstances.

WARNING



- The bilge pump system is not designed to provide buoyancy to the boat in case of damage.
- The bilge pump system is designed to drive out the water being either sea spray or leaks but absolutely not the water coming through a hole in the hull, this hole being the result of a damage.
- Do not let the pumps run while dry, this may cause them damage.
- The water in the bilge shall be kept at its minimum.
- Check the functioning of each bilge pump regularly.

SAFETY PRECAUTIONS

- Clean off debris which could block the pump intake points or strainers. If the watertight partitions which seal off the fore and aft points are fitted with valves they must be closed at all times and only opened to drain water into the main bilge.

USE STEERS FRANK OF HELP - VERSION STEERING WHEEL

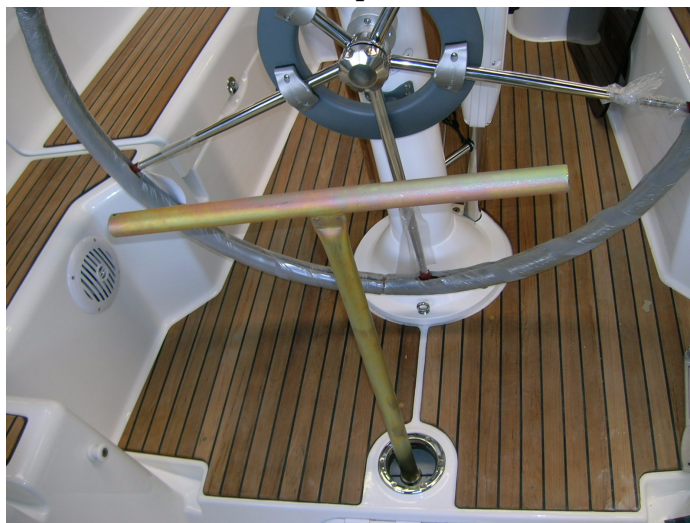
Sector access hole

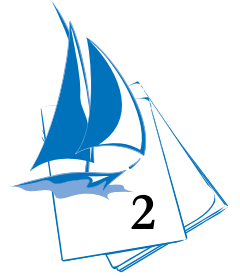


Opening access hole



Tiller in position





EMERGENCY TILLER

The emergency tiller is in an aft locker and shall be easy to get to.

To operate the tiller:

- Use a winch handle and unscrew the tiller cover situated at the back of the cockpit.
- Insert the tiller into the rudder stock and make sure it is fully secure in the square.
- If the automatic pilot is connected and is working after the tiller damage, use it.
- Disconnect all apparatus linked to the rudder stock to use the emergency tiller.

SAFETY

PIECE OF ADVICE - RECOMMENDATION

The emergency tiller is designed only to sail at a reduced speed in case of a wheel failure.



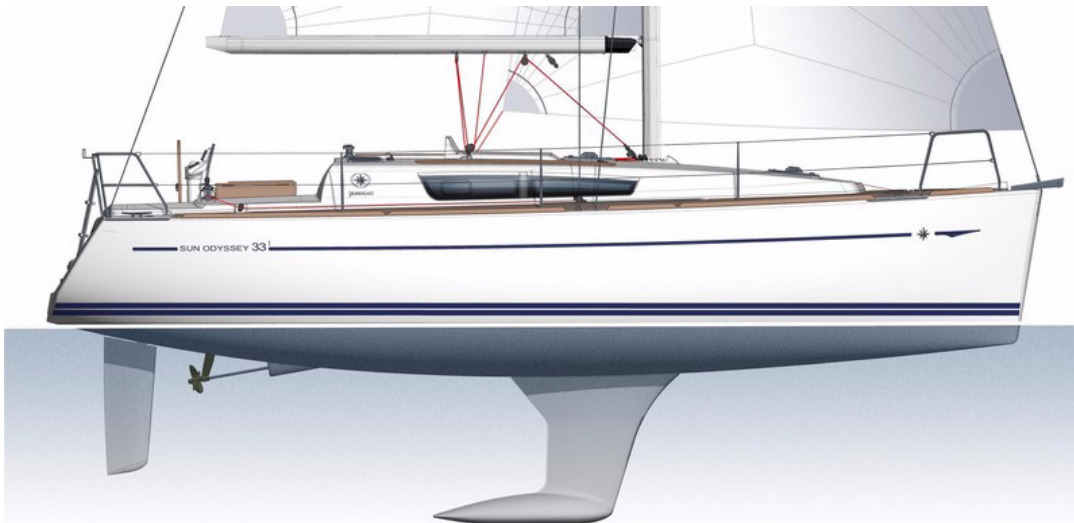
HULL

MAINTENANCE OF THE HULL

CARREENING

DRIFTER VERSION

CARREENING



WETTED AREA: 26 M²

PRECAUTION

- Consult the harbourmaster's office to find out the conditions of use for water and air facilities for cleaning your vessel.
- It is necessary to seek the advice of your concessionnaire with regard to gel-coat repairs.

PRECAUTION

- When applying the anti-fouling paint do not paint over the electronic instrument sensors nor the anodes.

PIECE OF ADVICE - RECOMMENDATION

- During the refit, check the anodes (See "Motorisation" chapter).
- When the boat is stored at a dry dock, the corrosion protection is not as effective due to oxidation of the anodes: even the new anodes oxidize the surface. Before returning the boat into the water, clean the anodes.
- Cleaning anodes: use sandpaper.
Do not use metal brushes or steel tools to clean the boat, it may damage the galvanic protection.
- Replacing the anodes: the anodes are fastened with screws and nuts. First, remove the screws and nuts that hold the anode, then clean the contact surface. Press the new anode to obtain a good electrical contact.

MAINTENANCE OF THE HULL



The materials and equipments of your boat have been selected because of their high quality and performance and ease of maintenance. However you shall carry out a minimum maintenance in order to protect your boat from outside attacks (salt, sun, electrolysis ...).

Preferably wash your boat on shore.

Use as few cleaning agents as possible.

Don't use solvents or aggressive detergent agents. Don't discharge your cleaning product into the water.

HULL

CARREENING

The lower hull of your boat should be covered with an anti-fouling paint which will prevent the adhesion of marine growth.

The nature of the water in which the boat sails will determine the choice of the anti-fouling paint as well as the frequency of hull stripping and painting. Do not hesitate to take advice from your specialists.

Refer to chapter 12 for launching instructions.

Before applying anti-fouling paint never:

- Do any sanding down.
- Use any other solvents than ethylic alcohol.
- Use detergents under pressure.
- Use scrapers.
- Do any sanding other than a light rubbing down by hand with a grade 400 wet abrasive paper (for the first application).

If cleaning of the anti-fouling paint has to be done with a high pressure hose:

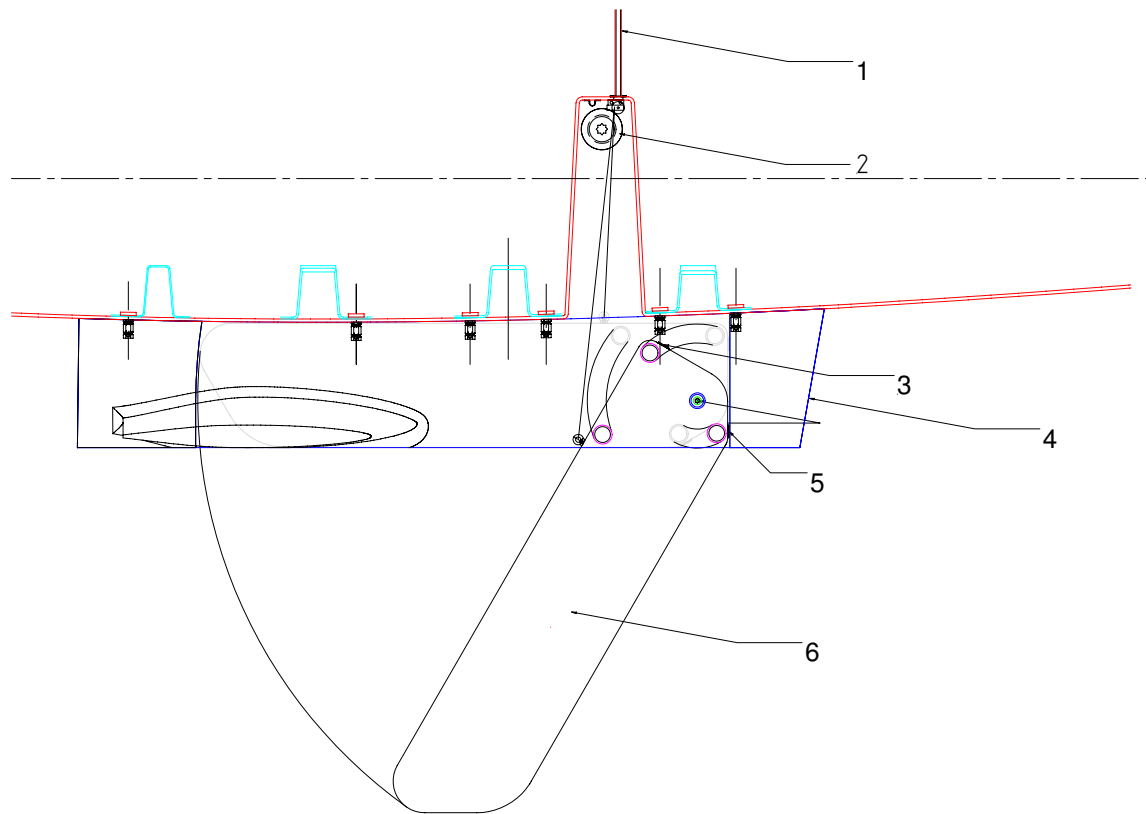
- The water temperature must not exceed 15 °C.
- The water pressure must not exceed 150 bars.
- The distance between the hose nozzle and the hull must not be less than 10 centimetres.

Follow the supplier's instructions very closely when applying the anti-fouling paint.

All these hull maintenance operations can be carried out by your dealer.

DRIFTER VERSION

SYNOPTIC - CENTREBOARD



REF	Designation
1	Axis passing reefing lift
2	Inspection hatch
3	End stop - High
4	Well drift
5	End stop - Low
6	Centreboard - 1500 kg

DRIFTER VERSION



HULL

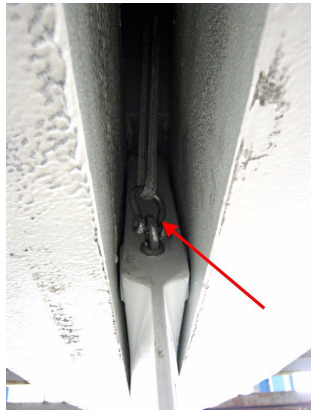
Drift observed



Output drift



SHACKLE - Well drift



Winch - Jam cleat



Inspection hatch



OPERATION

- The drift can be lowered and raised through a circuit back and forth in a reefing line that passes from tube wells drift to roof.
- The maneuvers are to be made through the port and its winch crank and a cam.
- A reefing relief is provided in case the main line turns to cutting.

WARNING



- Always check the water level before lowering the drift.
- Always hold the drift through the winch during the descent at risk of degradation of the system.
- Always drift back to using the winch and cleat.
- The winch shall not be used to block the drift in high position, use the cleat.

PIECE OF ADVICE - RECOMMENDATION

- Checked regularly throughout your system drift by a professional.



DECK

NAVIGATION

STABILITY

PREVENTION OF MANOVERBOARD

MOORING

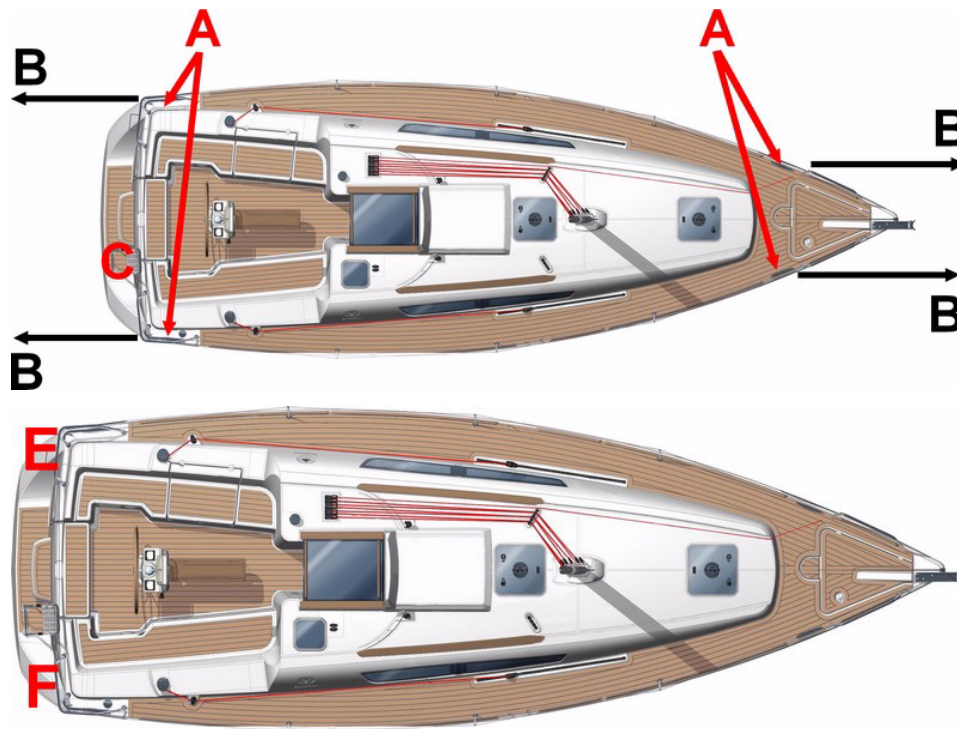
TOWING

ANCHORING

MAINTENANCE OF THE DECK

NAVIGATION

NAVIGATION - DECK LAYOUT



- A. Mooring cleats
 - Life-lines (attached to anchoring cleats or to optional chains)
- B. Towing:
 - at the bow, to be towed
 - at the stern, to tow
- C. Swimming ladder (means of coming back onboard)
- E. Ring lifebuoy bracket
- F. Mount Outboard - Maximum weight of outboard engine (not supplied): 20 kg

DANGER



- Wear your life jacket.
- In heavy weather, wear your safety harness and fasten yourself to the boat.
- When at sea close the guardrail doors.
- Do not try to stop the boat using a boat hook or your foot, your hand or any other part of the body.

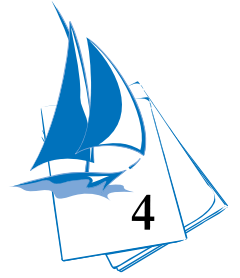
WARNING



The sudden closing of a locker due to a gust of wind or movement of the boat could result in injury.

PIECE OF ADVICE - RECOMMENDATION

Close the deck hatches and fore portholes each time before each trip (including the companionway hatch in heavy weather).



STABILITY

Breaking waves represent a serious danger for stability and for taking in water. Close the companionway doors and hatches in heavy seas.

During sailing keep all the portholes, windows and doors closed.

- The stability is reduced when you add weight in the upper parts.
- Stability may be reduced when towing a boat or when heavy weights are lifted with the davits.

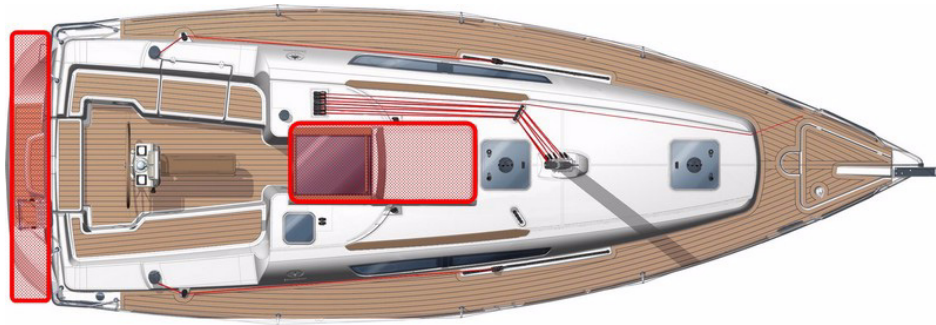
PREVENTION OF MANOVERBOARD

Regularly check the guard-rails:

- With metal guard-rails, watch for corrosion particularly at connecting points.
- With synthetic guard-rails, change them as soon as they show signs of wear due to chafing or UV.

Areas forbidden when sailing.

- Aft quarterdeck
- Roof



MOORING

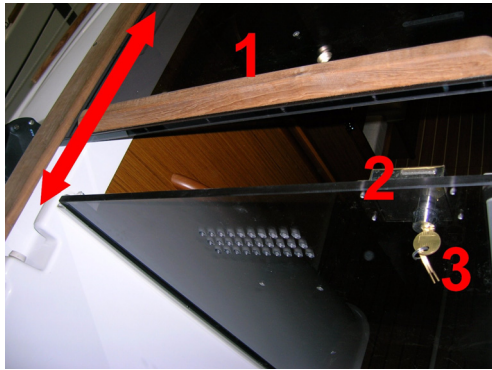
A sufficient number of mooring lines suitably sized and suitable for the environment shall be on board for mooring your boat.

- Always manoeuvre your boat using the engine.
- Make allowance for the current and wind when you handle your boat.
- Protect your boat to the highest degree with suitably sized fenders.
- Always keep the mooring ropes unfouled and stored away.
- Handle your boat at a reduced speed.

AFTER MOORING

- Protect the mooring lines against chafing with plastic sleeves.
- Make allowance for the variations in tides if need be.

Closure Companionway

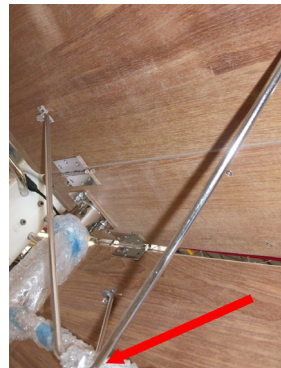


- 1. Sliding door
- 2. Lock
- 3. Key

Closure Hatch cover



Cockpit table



Opening Deck hatch



Opening Portlight





TOWING

TOWING BOAT

- Tow another boat at a reduced speed and as smoothly as you can.
- Pay particular attention when you throw or catch the towing rope (it may foul on the propeller).

NOTE: *The stability may be reduced when you tow a boat.*

TOWED BOAT

Keep steering your boat and see to it that you stay in the wake of the towing boat.

Inappropriate towing can damage your vessel, do not tow at more than 6 knots.

ANCHORING

As a rule, set the anchor in at least 3 times the depth of water.

ANCHORING WITHOUT WINDLASS

- Have your boat pointed into the wind and without speed.
- Pay out the chain while moving back slowly.
- Once the anchor snags, make it fast by reversing slightly.
- Secure the hawser or the chain to the cleat.

ANCHORING WITH ELECTRIC WINDLASS

- Turn on the boat engine.
- Check that the electrical supply of the windlass is switched on (battery switch, circuit breaker).
- Use the remote control to activate the windlass in lowering mode. Let the chain feed out by keeping the lowering button on the remote control pressed down.
- Let the chain out while moving backwards slowly and as straight as possible.
- Once the anchor snags, make it fast by reversing slightly.
- Secure the hawser or the chain to the cleat.

WARNING



Windlass operations are dangerous:

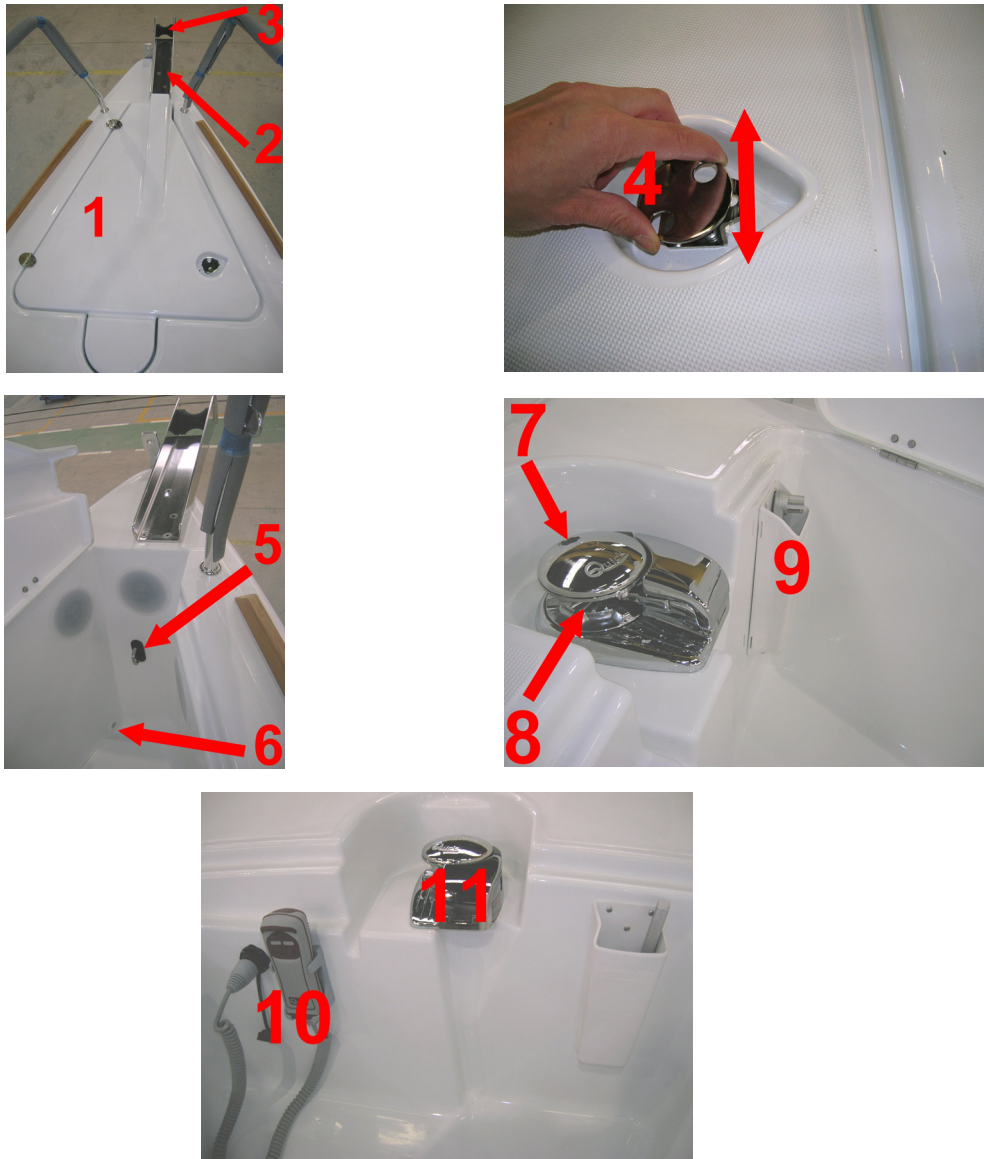
- Always keep the anchor line free and unfouled.
- Always proceed with care, using gloves and always wearing shoes.
- If your boat is equipped with the twin control optional extra, make sure you use **only one** control at the same time.

PRECAUTION

- Before anchoring check the depth of water, the power of the current and the nature of the sea bed.
- Anchoring manoeuvres with the electric windlass can only be carried out with the engine running.

DECK ELECTRIC WINDLASS - BREAKER

LAY OUT OF



1. Hatch cover - Mooring locker
2. Bow fitting
3. Stem roller
4. Opening - Mooring locker
5. Clench
6. Drain scuppers - Mooring locker
7. Handle position
8. Chain lifter 10 mm diameter
9. Handle in stored position
10. Remote control
11. Windlass 12V 1000 W



OPERATION



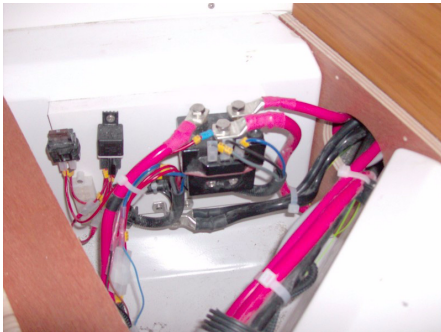
Battery switches to be turned on:

1. + Engine
2. - Common

The windlass is powered by the engine battery.

DECK

**Operation relay -
Forward cabin**



**Breaker -
100A**



ANCHORING BY HAND WITH USE OF A MANUAL WINDLASS

- Release the windlass brake using the handle located in the chain locker so as to allow the chain lifter to turn freely and to release the anchor from the stem fitting
- Re-engage the brake and let the anchor hang until the mooring position is reached.
- Have the boat pointed into the wind and without speed.
- Release the brake and pay out the chain slowly.
- Control the speed of anchor lowering using the brake.
- Once the anchor has taken hold re-engage the brake and secure the hawser to the cleat.

HEAVING UP THE ANCHOR

- Lock the cable lifter snubber.
- Ensure the chain is properly set on the cable lifter.
- Slowly go near the anchor, using your engine (Don't use your windlass to winch the boat).
- Heave the anchor completely.
- Visually check the last meters till the anchor gets into contact with the davit.
- If you just change berth, check the position of the anchor on the stem fitting.
- For sailing, store the anchor in the chain locker or fasten the anchor to its roller.
- For electrical windlasses cut off the power supply as soon as the anchor has been lifted.

STERN ANCHORING

Stern anchoring shall be performed with the engine declutched.

- Secure the required length of cablet on the mooring cleat.
- Pay out the anchor line slowly.
- Take care not to damage the propeller or the rudder.

PIECE OF ADVICE - RECOMMENDATION

- After each trip rinse the windlass and mooring line with fresh water.
- Refer to the manufacturer's instructions for windlass maintenance at the beginning or end of the season.
- Check the swinging area once the boat is at anchor.



MAINTENANCE OF THE DECK

Preferably wash your boat on shore.

Use as few cleaning agents as possible.

Don't use solvents or aggressive detergent agents (Refer to chapter 3 "Hull").

Don't discharge your cleaning product into the water.

Regularly brush the deck with a degreasing shampoo and fresh water.

DECK FITTING

- Rinse thoroughly all your equipments with fresh water.
- Periodically lubricate turnbuckles, winches, tracks and travellers with water-repellent grease. Thoroughly and frequently wash off the pulleys and sheaves with clear water.

SOLID WOOD ON EXTERIOR WOODEN PANELLING

Regularly clean the woodworks with fresh water using a sponge (if need be add some gentle soap).

PLEXIGLAS

- Rinse plexiglas with fresh water.
- Use a polish paste for thin scratches.
- Consult your dealer concerning deep scratches.

EXTERIOR CUSHIONS

Bring the removable cushions inside (washed with soapy water then dried) when the vessel is inoccupied.

STAINLESS STEEL

Stainless steel is not incorruptible and requires a minimum of upkeep:

- The use of chrome tools is preferable whenever handling stainless steel.
- Re-nourish the protective film regularly with passivation paste (consult your dealer).

PRECAUTION

- Consult the harbourmaster's office to find out the conditions of use for water and air facilities for cleaning your vessel.
- Don't use solvent, alcohol, acetone on plexiglas.

PIECE OF ADVICE - RECOMMENDATION

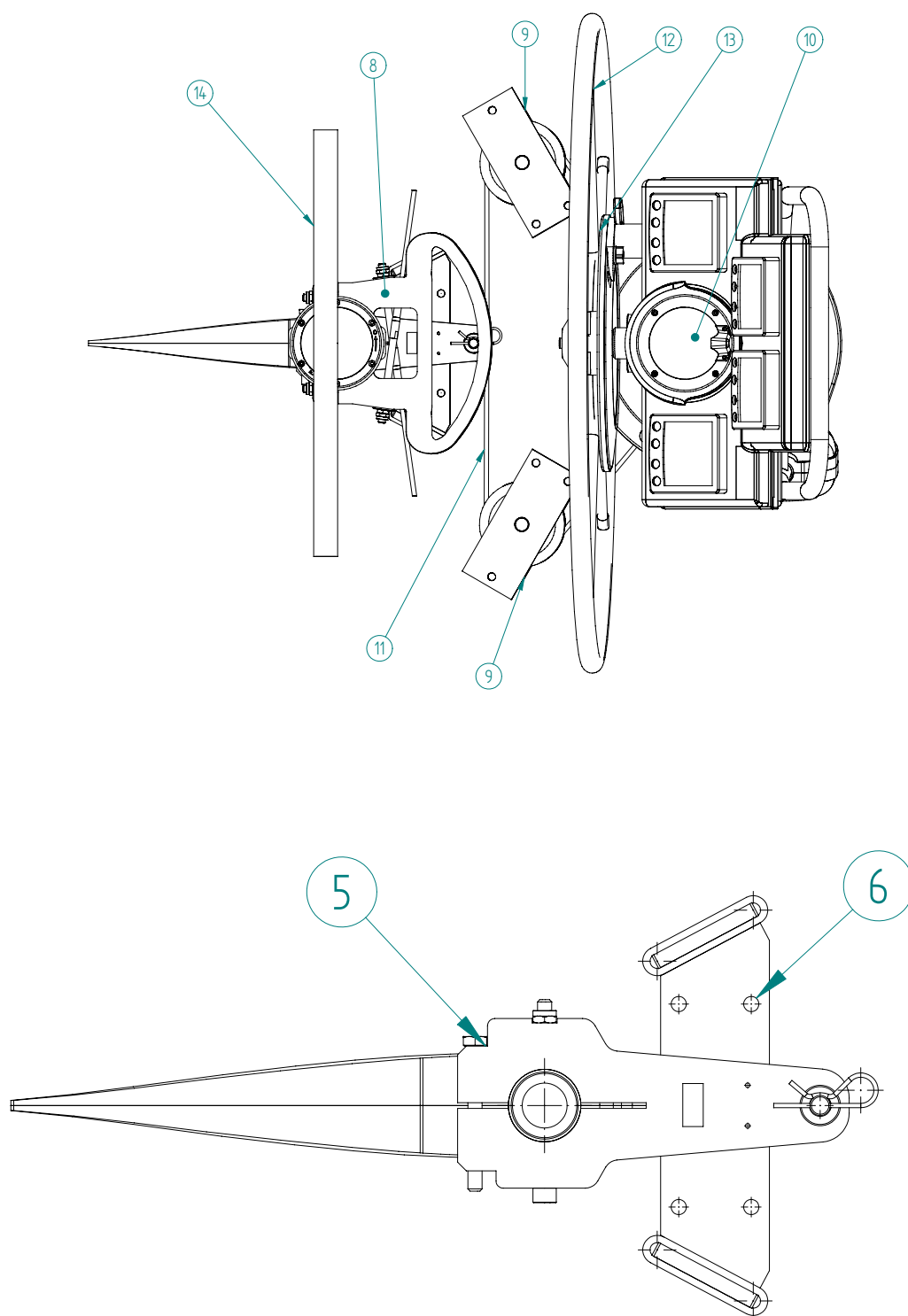
- Use only products similar to the ones that are included in the maintenance case you have been delivered with your boat.
- Don't use a pressure washer.



STEERING SYSTEM

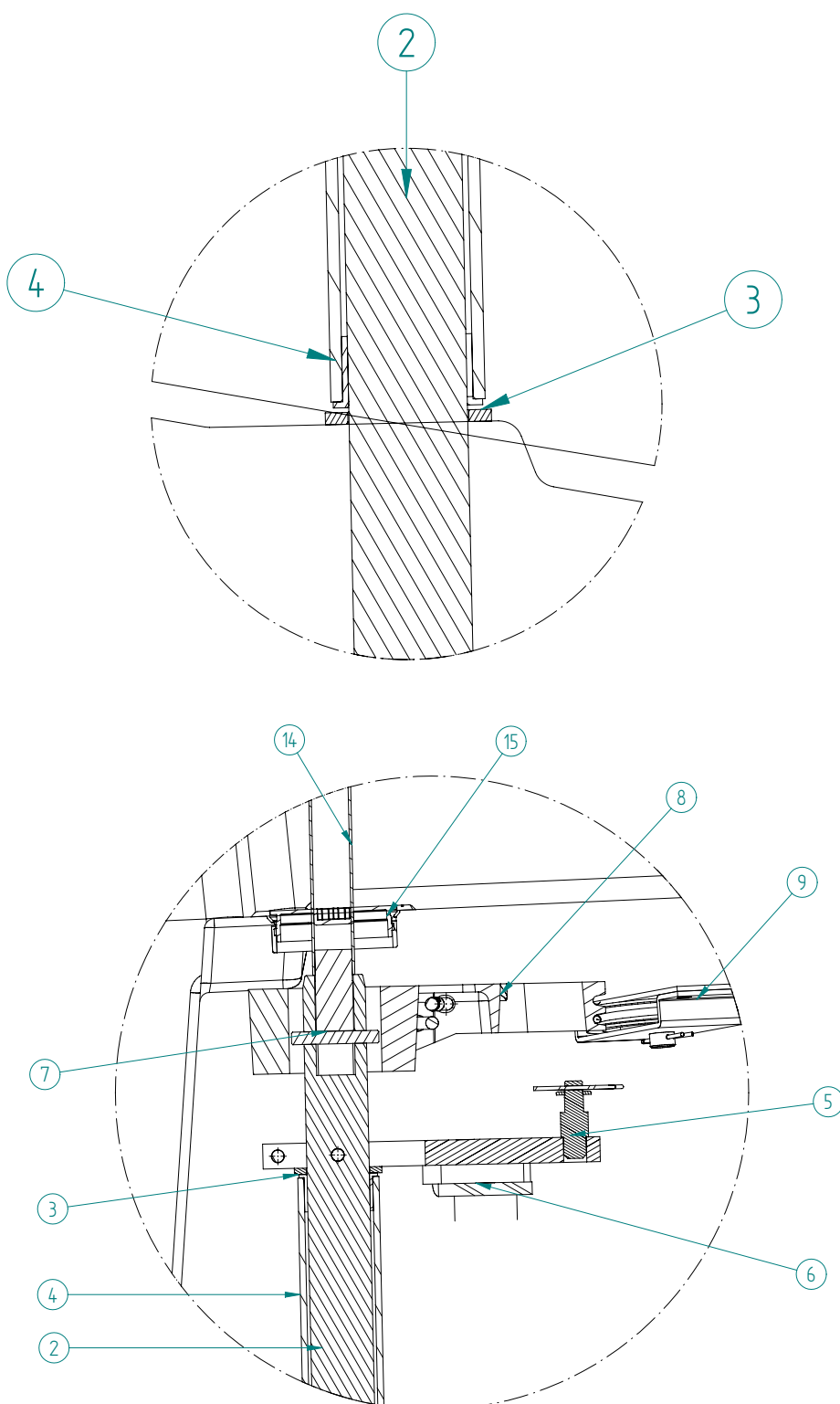
STEERING GEAR

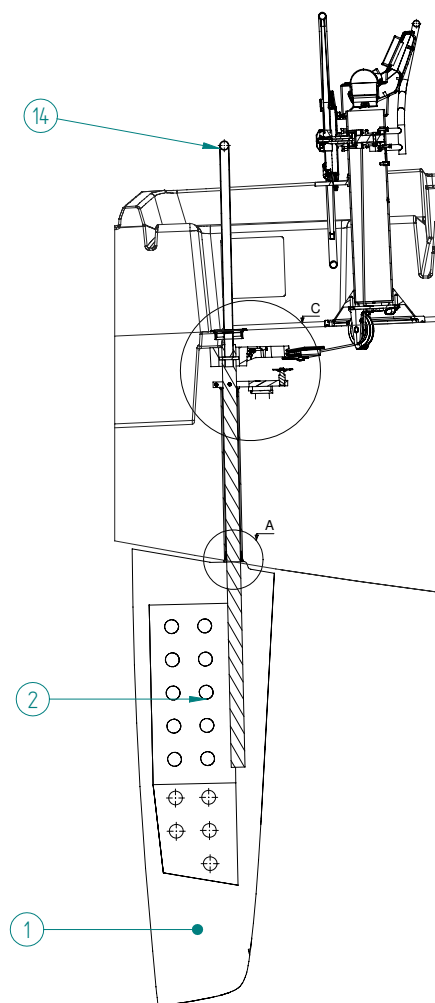
STEERING GEAR - KEELED VERSION





STEERING SYSTEM



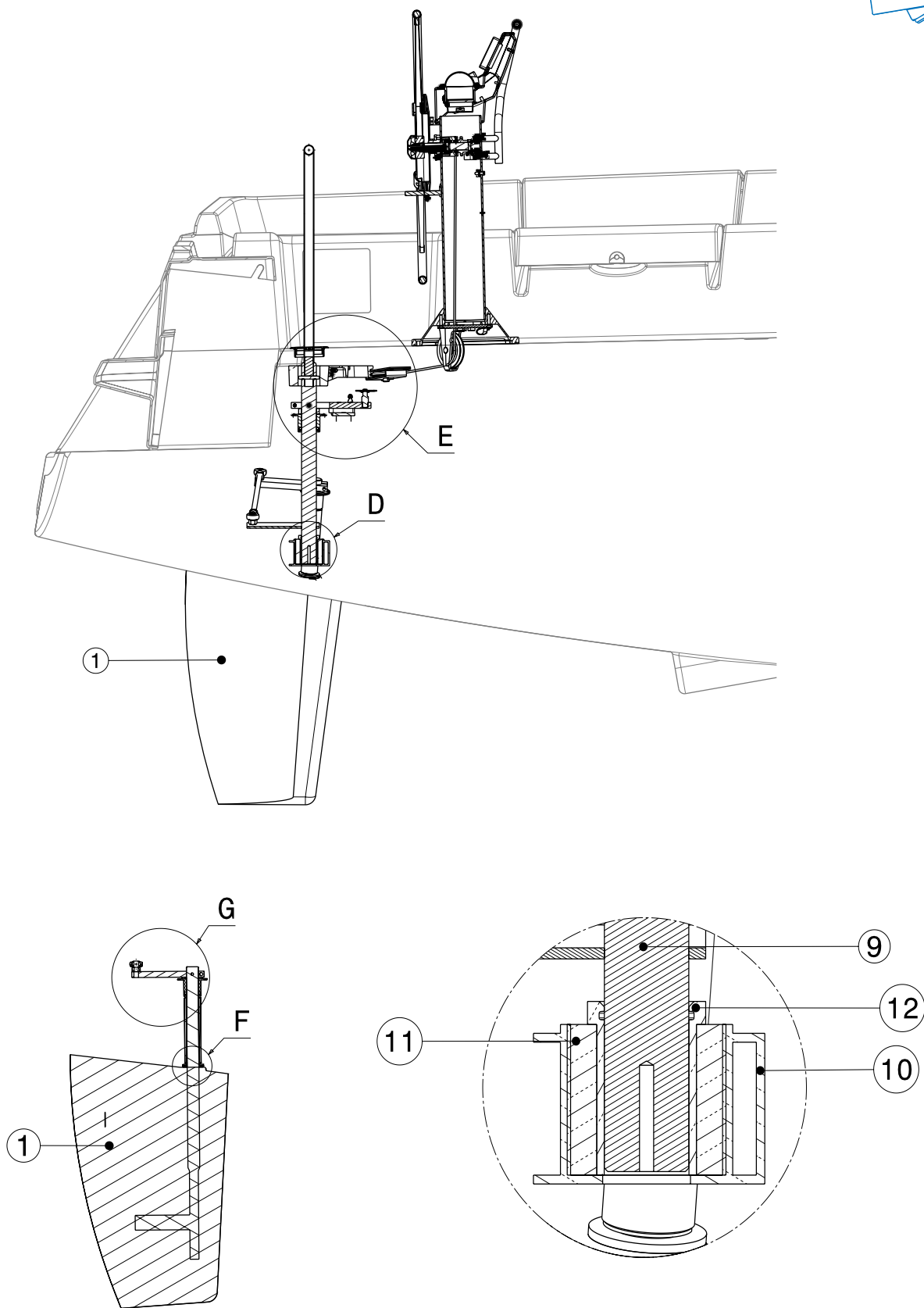


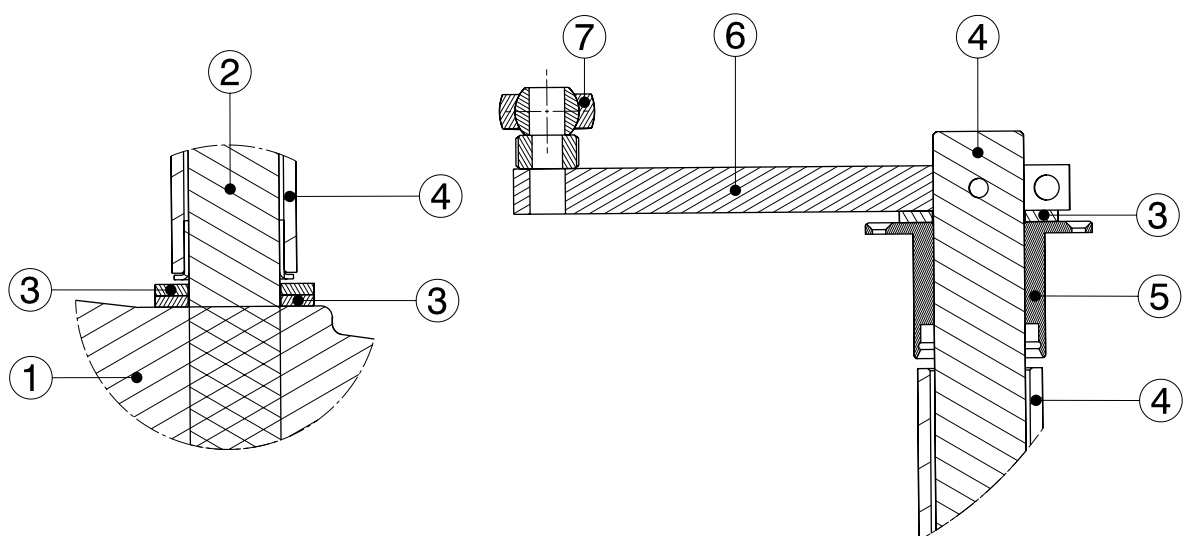
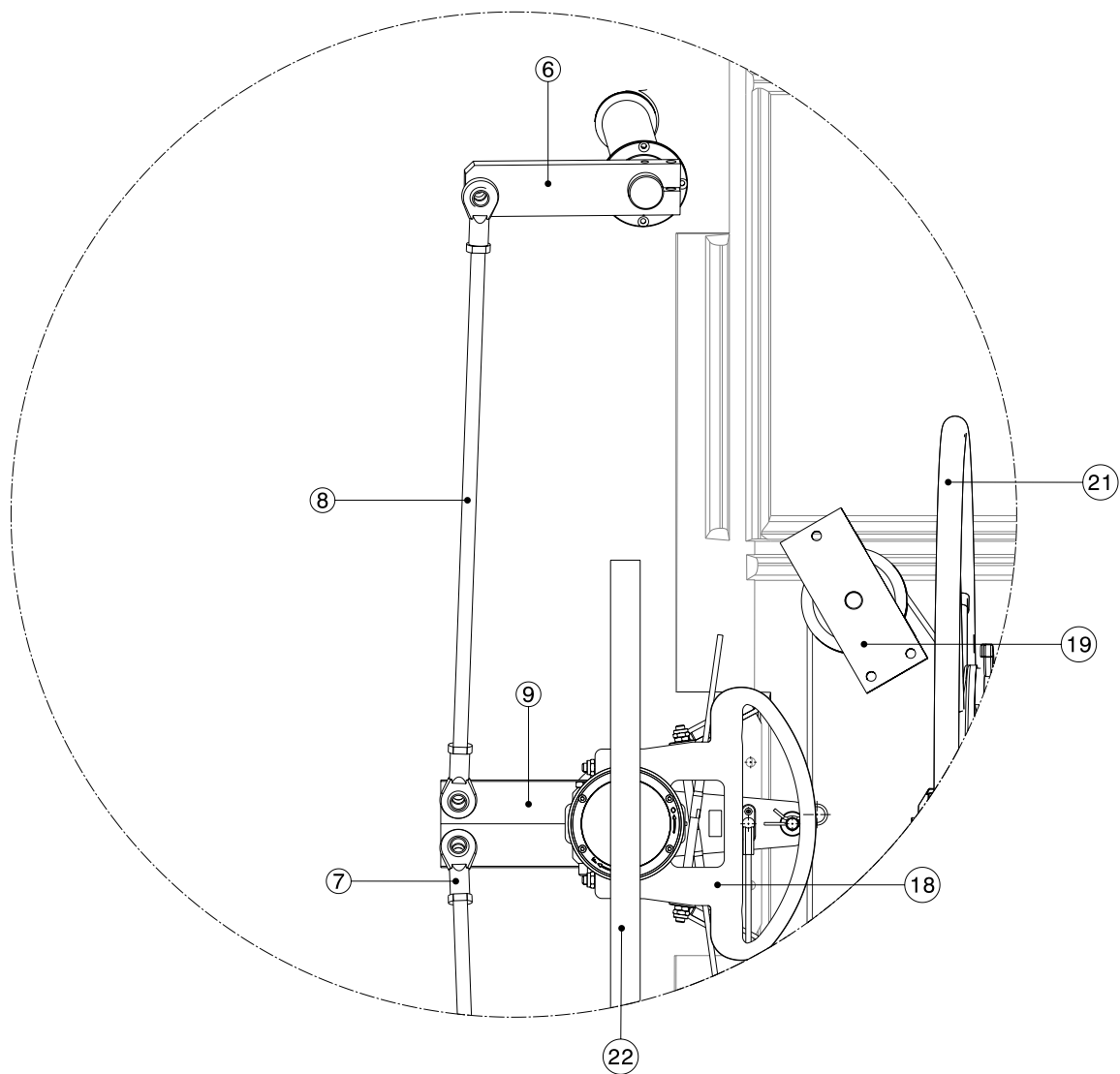
1. Rudder
2. Rudder stock
3. Balance bush
4. Rudder port tube
5. Stock arm
6. Stock arm stop
7. Pin
8. Sector
9. Sheaves box
10. Wheel column
11. Ropes
12. Steering wheel
13. Auto pilot
14. Emergency tiller
15. Sector access hole

STEERING GEAR - DRIFTER VERSION



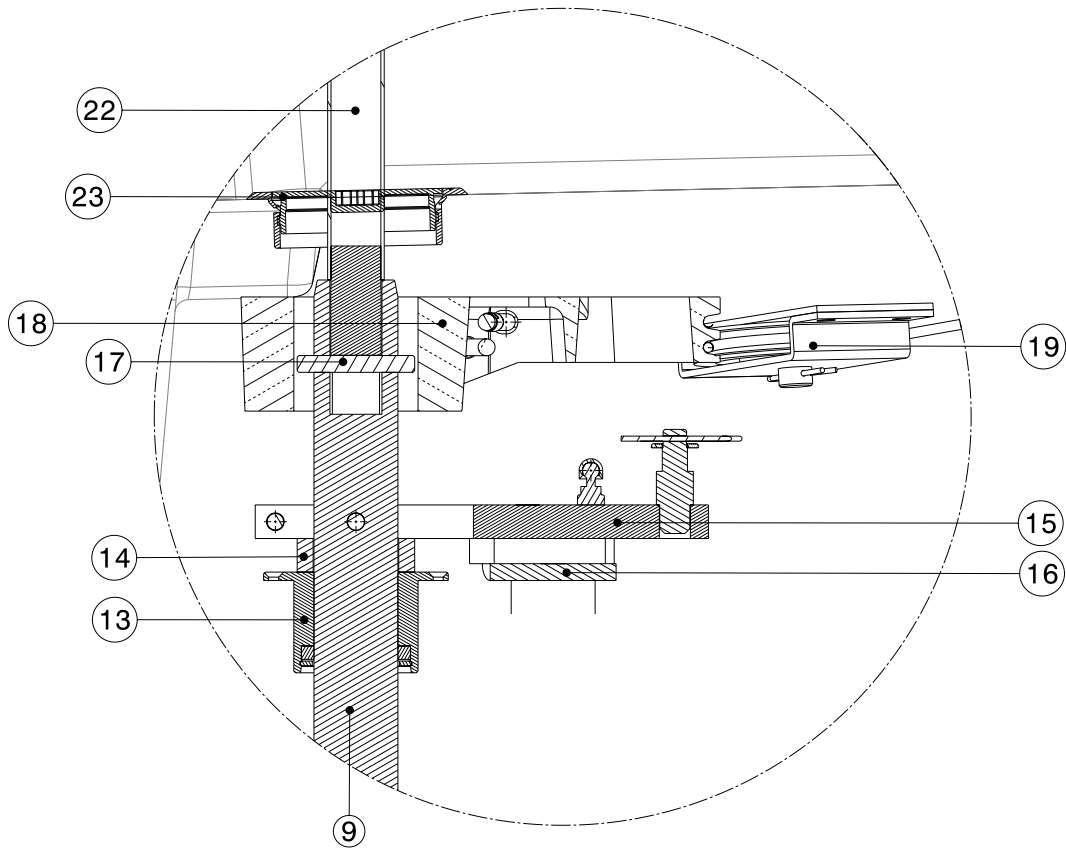
STEERING SYSTEM







STEERING SYSTEM



1. Rudder
2. Rudder stock
3. Balance bush
4. Rudder port tube
5. White flanged bush
6. Stock arm
7. Track rod end
8. Connecting rod
9. Rudder spindle
10. Lower bearing
11. Elastic bush
12. Upper bearing
13. Black flanged bush
14. Balance bush
15. Stock arm
16. Stock arm stop
17. Pin
18. Sector
19. Sheaves box
20. Steering wheel column
21. Steering wheel
22. Emergency tiller
23. Sector access hole
24. Auto pilot

ACCESS TO STEERING GEAR



Inspection hatch - Cockpit aft



Deckhead - Aft cabin

STEERING GEAR

MAINTENANCE

- Regularly check:
 - The tension in the steering cables.
 - The tightness of the steering system components.
- Don't tighten the steering cables excessively.
- Lubricate all the elements.

Maintain the nylon, ertalon or teflon bushes only with a suitable lubricant.



WARNING

- Learn how to judge the necessary distance of deceleration for the vessel to come to a complete stop.
- The reverse gear is not a brake.

NOTE: *Do not hesitate to consult your dealer about system maintenance.*



WARNING

- Refer to chapter 2 "Safety" for use of the emergency tiller.

PIECE OF ADVICE - RECOMMENDATION

- The emergency tiller is designed only to sail at a reduced speed in case of a wheel failure.



RIGGING AND SAILS

STANDING RIGGING

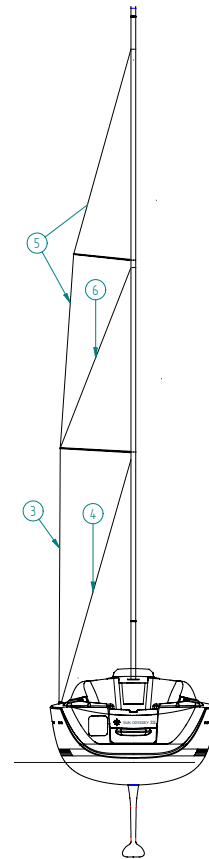
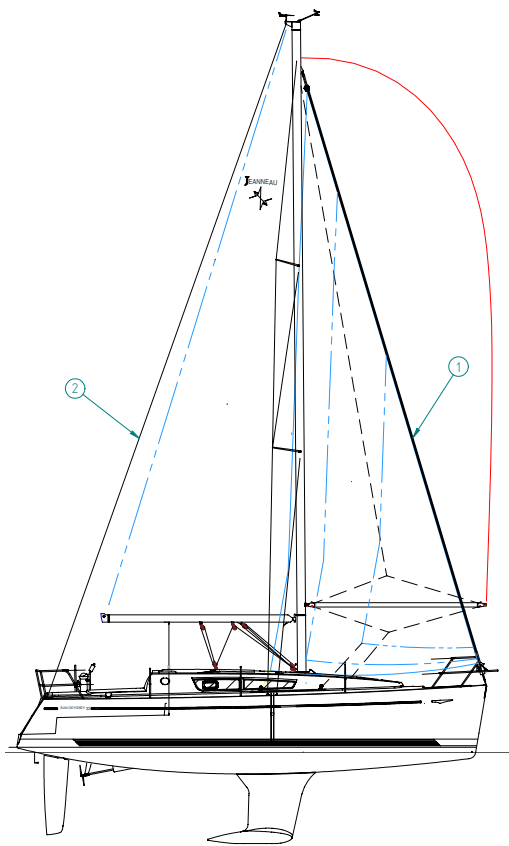
RUNNING RIGGING

WINCHES

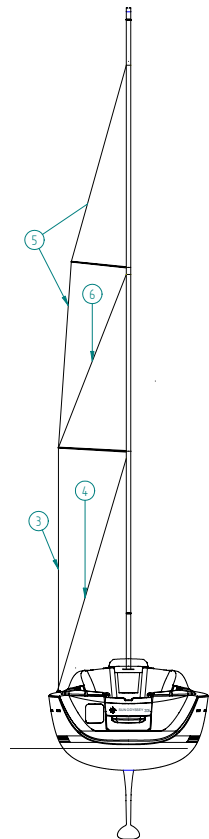
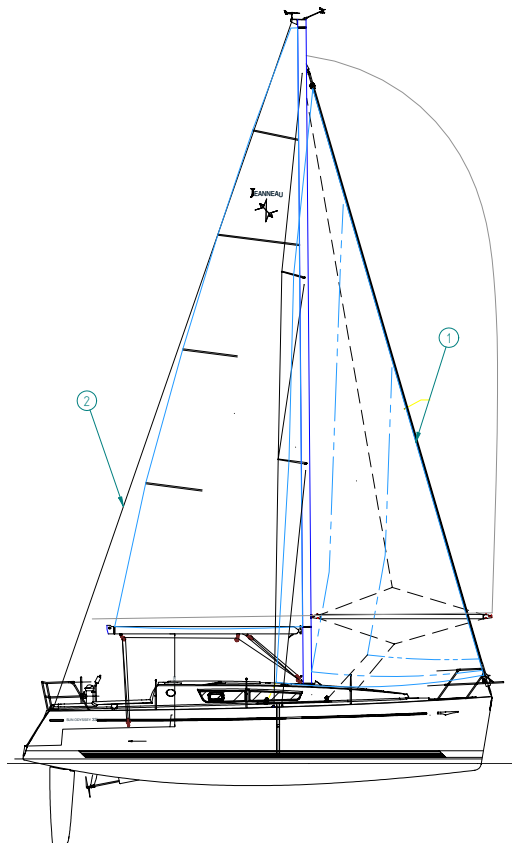
SAIL SETTING

SAILS

STANDING RIGGING CLASSICAL MAST / JIB REEFER



MAST PERFORMANCE





Version	Classical / Jib reefer	Performance
1. Forestay	7	7
2 .Backstay	5 (X 2)	6
3. V1	7	7
4. D1	6	6
5 .V2D3	6	6
6. D2	5	5

STANDING RIGGING

Your JEANNEAU dealer was responsible for stepping the mast of your boat.

After masting your vessel and after having sailed for the first time it is necessary to seek the help of a qualified specialist in order to carry out a rigging check.

MAINTENANCE

Before each trip, carefully inspect the mast from top to bottom.

Periodically check the rigging tightening and the lock nut or pin locking (you should check it for the first time after a few days sailing in all types of weather).



DANGER

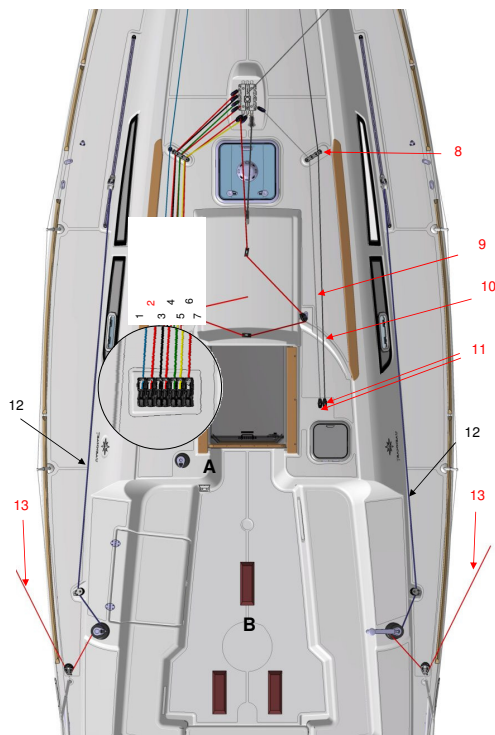
- To hoist a crew member up to the top of the mast, make a bowline with the halyard directly on the bosun's chair ring (never use the halyard snap shackle or shackle).
- Do not hoist a crew member when sailing in heavy weather.

PIECE OF ADVICE - RECOMMENDATION

Your dealer JEANNEAU can carry out all maintenance operations or recommend a skilled specialist to do so.

RIGGING DIAGRAM

Version Classical and Jib reefer

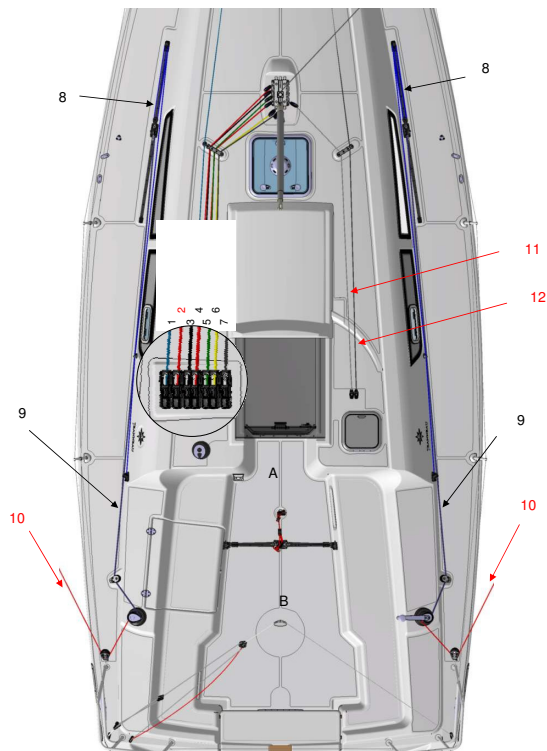


1. Genoa furler line
2. Spinnaker halyard (optional)
3. Main halyard
4. Mainsail foot
5. Reef 1 / Mainsail safety block stopper
6. Reef 2 / Mainsail safety block stopper
7. Main sheet
8. Cheek block (optional)
9. Spinnaker lift (optional)
10. Kicker tackle / Asymmetric spinnaker tack
11. Jam cleat (optional)
12. Genoa sheet
13. Spinnaker sheet (optional)

A. Rigging winches

B. Winches Genoa

Version Performance



1. Genoa furler line
2. Spinnaker halyard (optional)
3. Main halyard
4. Mainsail foot
5. Reef 2 / Mainsail safety block stopper
6. Reef 1 / Mainsail safety block stopper
7. Kicking strap
8. Back and forth Genoa traveller
9. Genoa sheet
10. Spinnaker sheet (optional)
11. Spinnaker lift (optional)
12. Kicker tackle / Spinnaker tack (optional)

A. Rigging winches

B. Winches Genoa



RUNNING RIGGING

MAINTENANCE

Change any distorted or dented sheave. Inspect the pins of the sheaves at the top of the mast once a year.

Lightly grease the sheave pins.

Regularly check the jam cleat jaws for condition.

Inspect the halyards for wear and condition.

Regularly clean the pulleys off (old grease, traces of rust) with clear water.

Slightly lubricate the block pins.

Avoid untimely gybing in order to reduce premature wear on the sheets, attachment points and the gooseneck.

WINCHES

OPERATION

Avoid rope jamming during winch handling. Do not leave loose ropes on the winches but fasten them on cleats (except on the "Self Tailing" winches).

SAIL SETTING

CLASSICAL MAINSAIL

With the mainsail being on the deck:

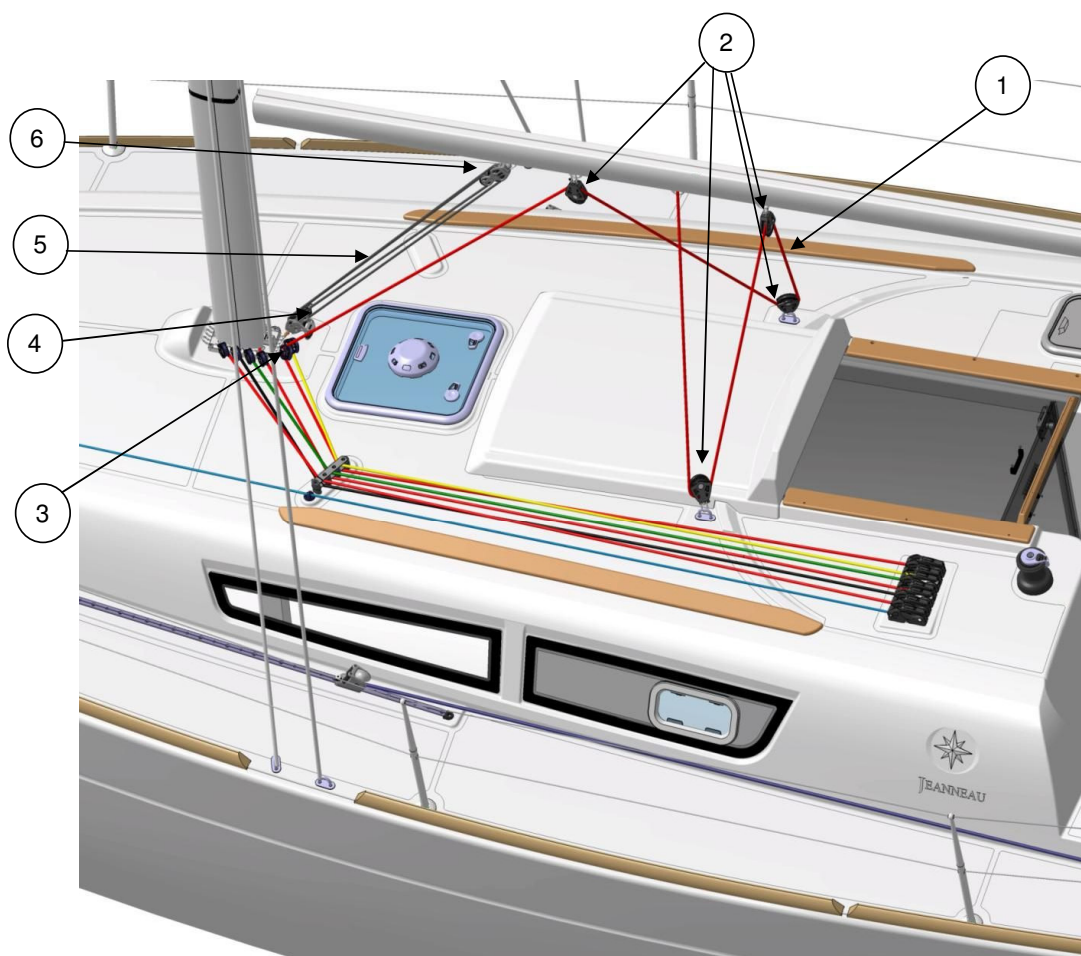
- Screw the pins of the mast sliders for battens into their boxes.
- Slide in the battens through the leech.
- Screw the box cap until you get the required tension (the tightening screw shall not project beyond the sail).
- Do not forget the small locking screw.
- Put the mainsail into the lazy-bag.
- Set the boom ring in velcro about level with the clew.
- Fit the mainsail onto its slides, begin with the headboard and finish with the tack.



WARNING

- Refer to the manufacturer's instructions to remove the winches and put them back. Improper refitting may result in accidents (e.g. kick of the crank handle).

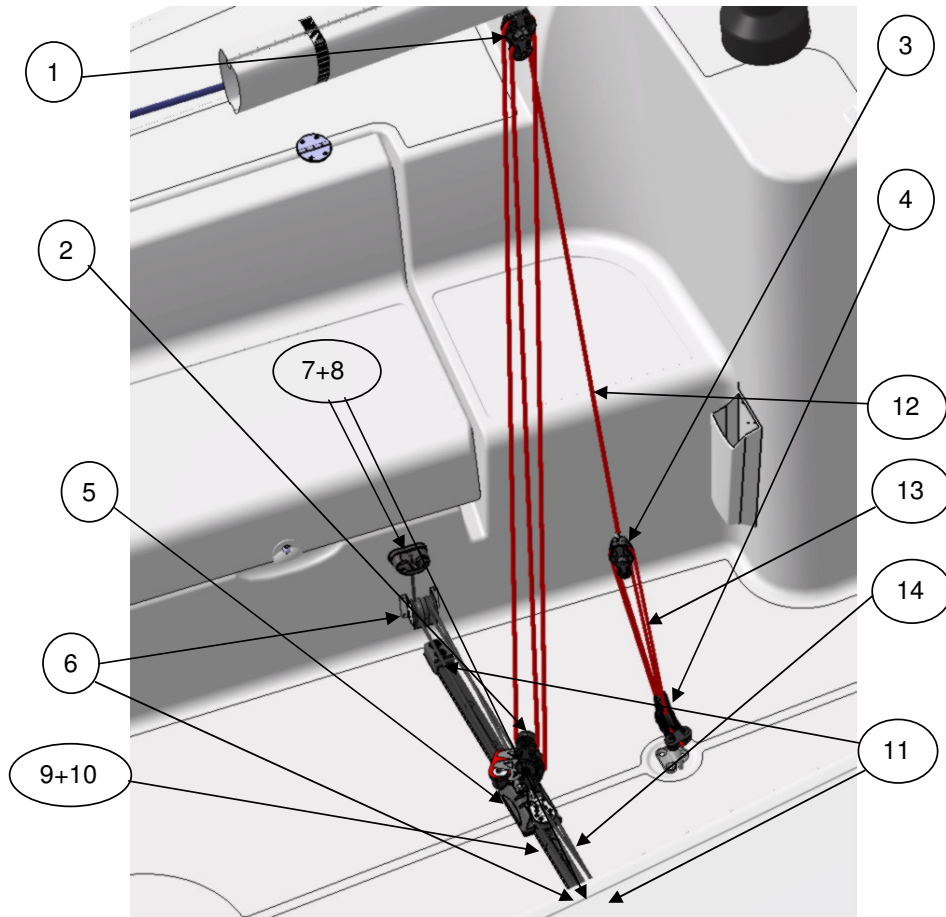
CLASSICAL MAINSAIL / JIB REEFER



	Designation	Number
1	Main sheet Length 16 m Diameter 10mm	1
2	Swivel single pulley D72	4
3	Swivel single pulley D50	5
4	Double swivel pulley	1
5	Kicking strap Length 8 m Diameter 10mm	1
6	Double swivel pulley	1



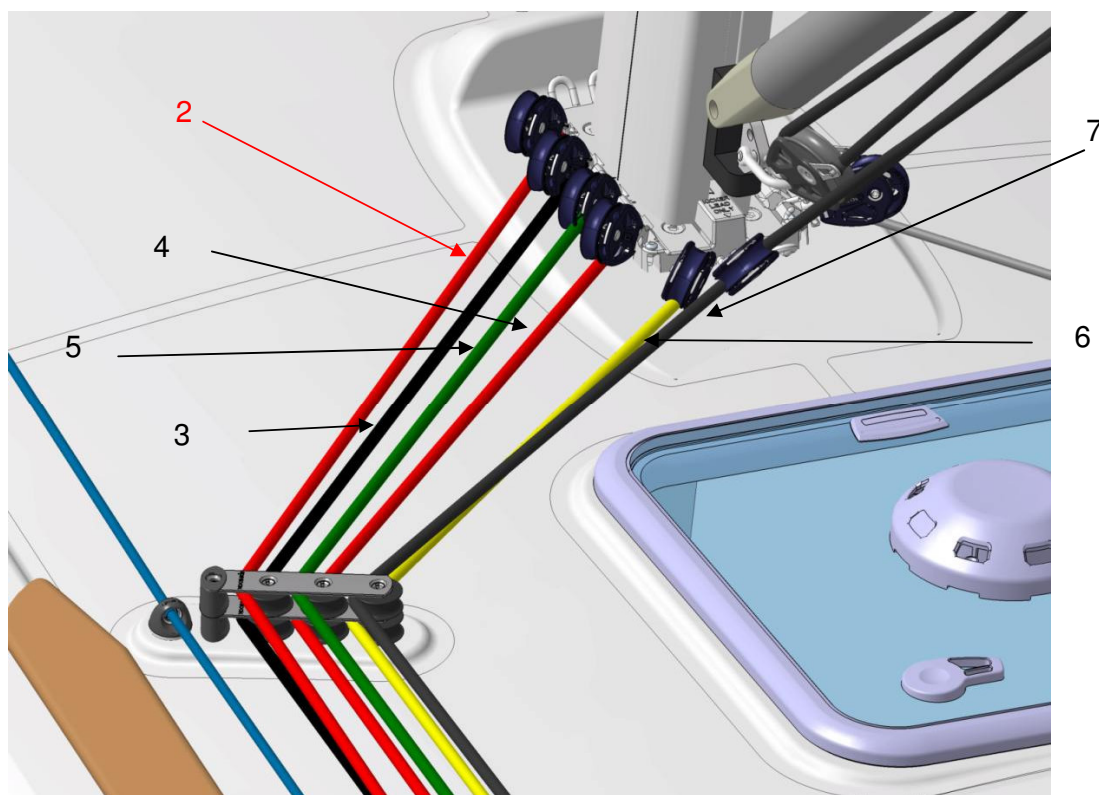
MAINSAIL (CLASSIC) - PERFORMANCE



	Designation
1	Fiddle block D57
2	Fiddle block D57 + Clutch
3	Fiddle block D40 carbon
4	Pulley D40
5	Traveller - Mainsail (classic)
6	Pulley transmission
7	Jam cleat
8	Guide - Cleat
9	Mainsail track
10	Mount - Track
11	Rail end piece
12	Main sheet - Length 21 m - Diameter 08 mm
13	Main sheet fine tune Mainsail (classic) - Length 5 m - Diameter 06 mm
14	Mainsail traveller pass rope

MAST PERFORMANCE

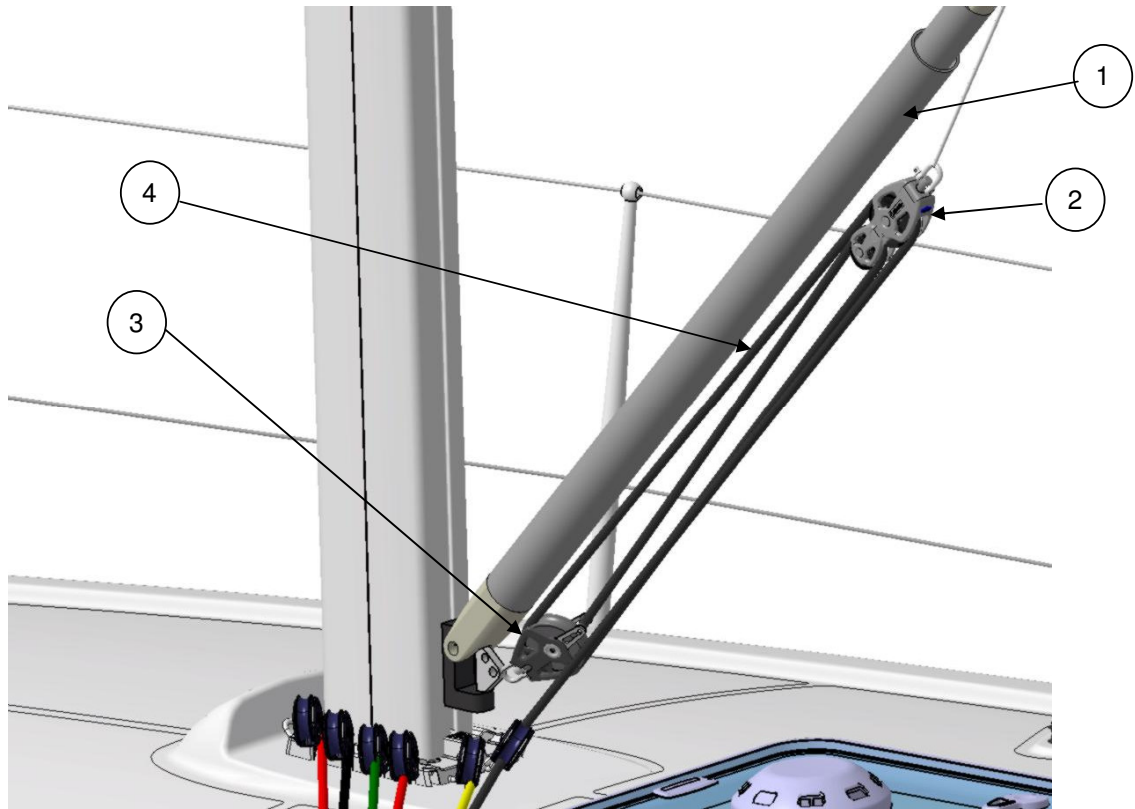
SYSTEM - MAST FOOT



	Designation
2	Spinnaker halyard (optional)
3	Main halyard
4	Mainsail foot
5	Reef 2
6	Reef 1
7	Kicking strap

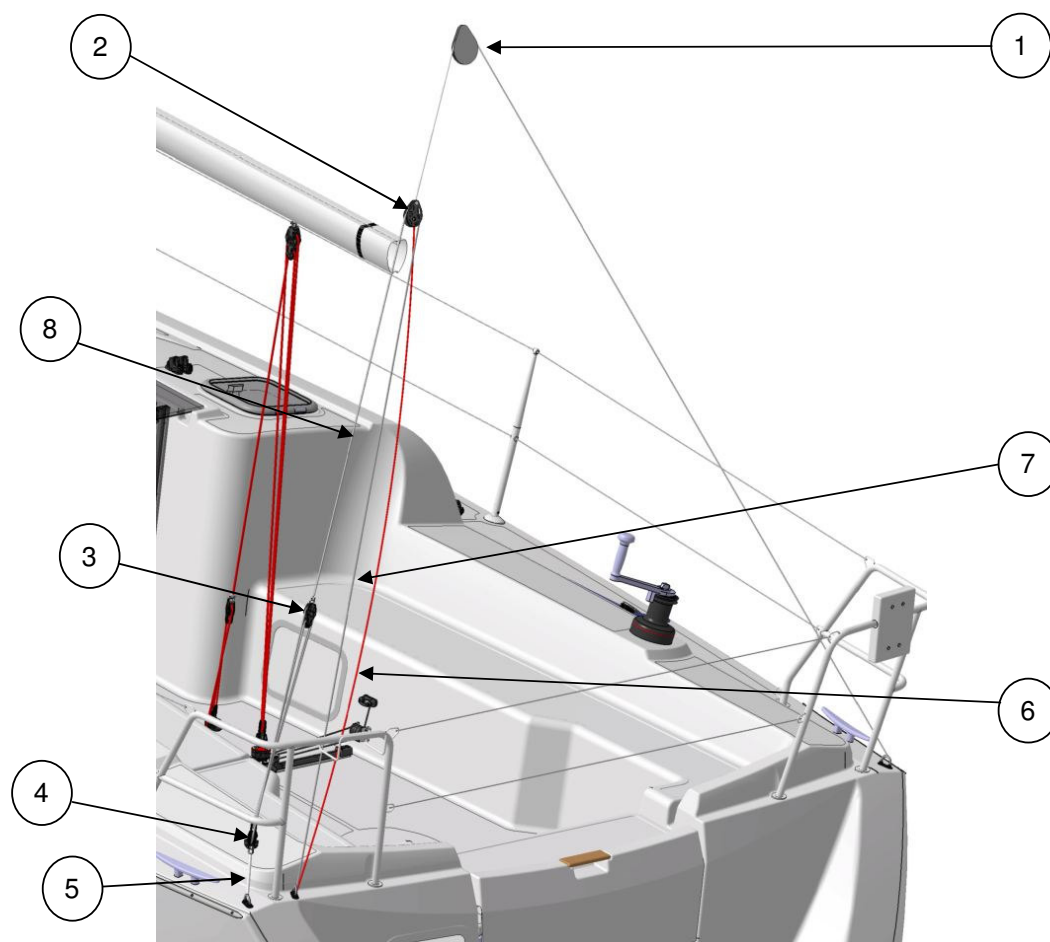


MAST PERFORMANCE



	Designation
1	Fixed boom kicking strap
2	Double swivel pulley
3	Single pulley (Diameter: 60 mm)
4	Kicking strap (Diameter: 10 mm)

SYSTEM - BACKSTAY



	Designation
1	Pulley
2	Single pulley D57
3	Fiddle block D40 carbon
4	Pulley D40
5	Pig tail
6	Safety
7	Tiered tackle
8	Palan of backstays - Length 8 m - Diameter 06 mm



FURLING MAINSAIL

- Remove the hatch giving access to the furling mechanism.
- Spread out the sail on the deck.
- Fasten the head (strap) to the shackle of the upper swivel. Pay attention to the winding direction.
- Insert the foot adjustment line into the clew block.
- Slowly hoist the sail. Guide the bolt rope (sometimes the groove leading edges may be insufficiently smoothed off).
- When the sail is up, tack it to the lower shackle.
- Gently sweat up the halyard.
- Refit the hatch.
- Furl the sail facing the wind and keeping a very slight tension on the foot. The mainsail downhaul and sheet shall be eased off.

PIECE OF ADVICE - RECOMMENDATION

- Carry out the complete maintenance of the winches regularly (before and during the sailing season).
- Rinse the winches off regularly during the season.

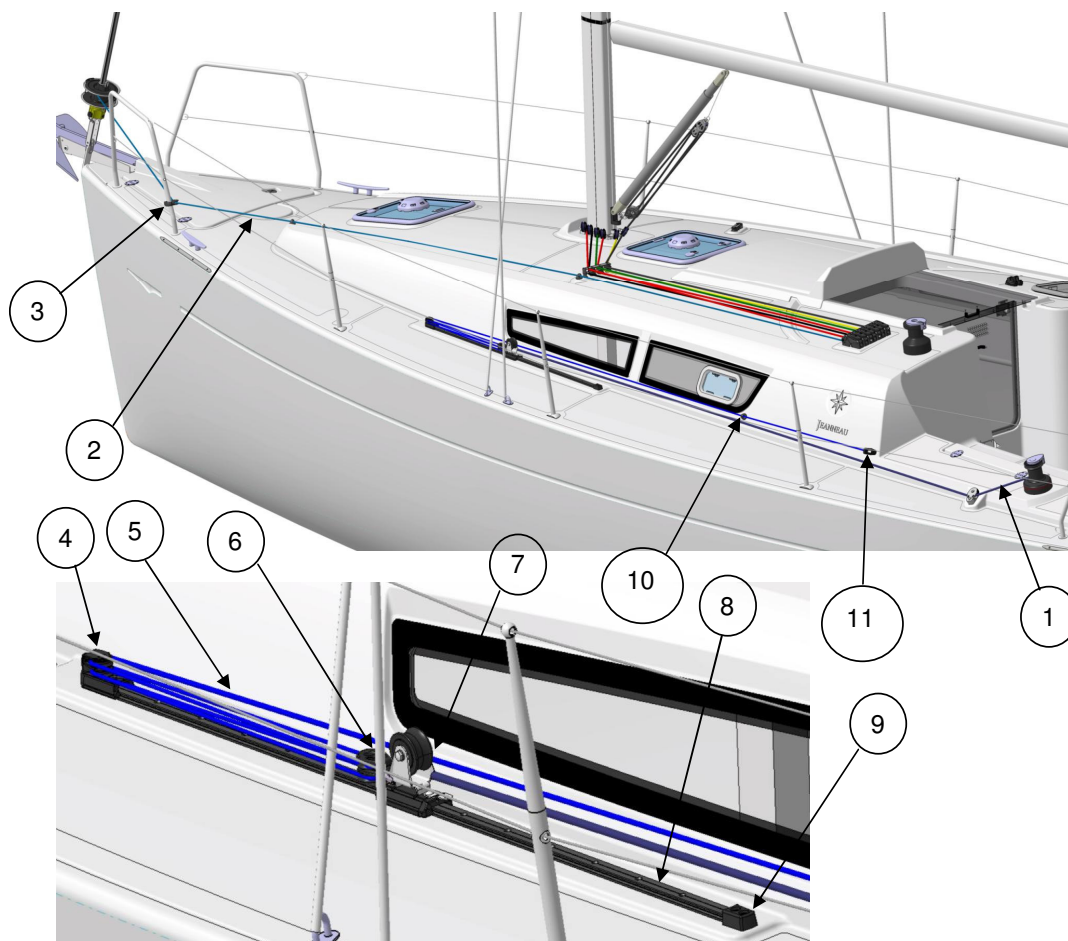
SYSTEM GENOA - STANDARD



	Designation	Number
1	Genoa sheet Length 16 m Diameter 10mm	2
2	Furling line Length 8 m Diameter 10mm	1
3	Double swivel pulley	1



SYSTEM GENOA - PERFORMANCE



	Designation
1	Genoa sheet - Length 13 m - Diameter 10 mm
2	Furling line - Length 24 m - Diameter 08 mm
3	Stanchion block
4	Rail end piece - Genoa
5	Two-way switch - Genoa sheet - Length 11 m - Diameter 06 mm
6	D29 carbon double pulley
7	Genoa traveller
8	Genoa track
9	Rail end piece
10	Lead
11	Single clutch

FURLING GENOA

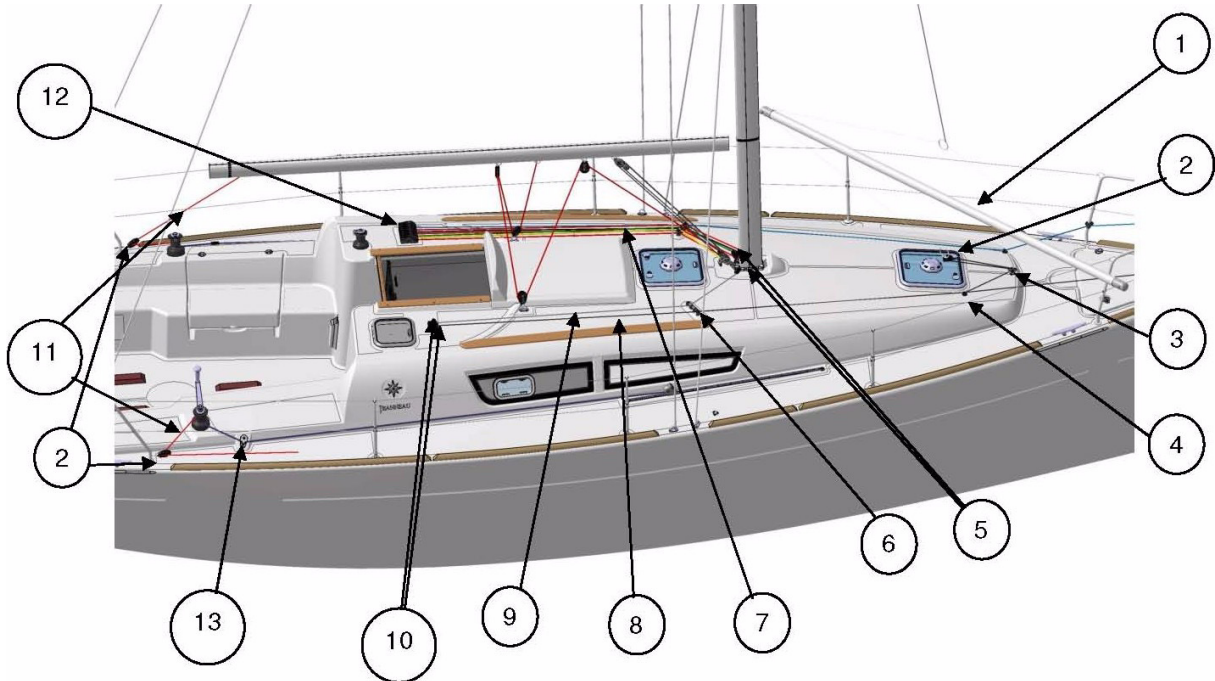
- Secure the head and halyard to the swivel. Secure the tack to the drum and sheets.
- Insert the bolt rope into the hole and hoist it and take care that you do not tear it.
- Have the halyard taut enough but hoist less taut than a sail on a normal stay. Hoist it until the horizontal creases disappear (Adjust the tension of the luff after a few sea trips).
- Pull on the line from the cockpit to furl the genoa.
- Before getting under way take advantage of a windless period of time and hoist the genoa.
- Hand pre-roll the drum to set the furling line on it.

Pay attention to the drum winding direction: The sacrificial strip of the genoa shall be wrapped outside.

Never force it in case it seizes when you furl or unfurl the head sails. Make sure that no ropes are caught in the furler.



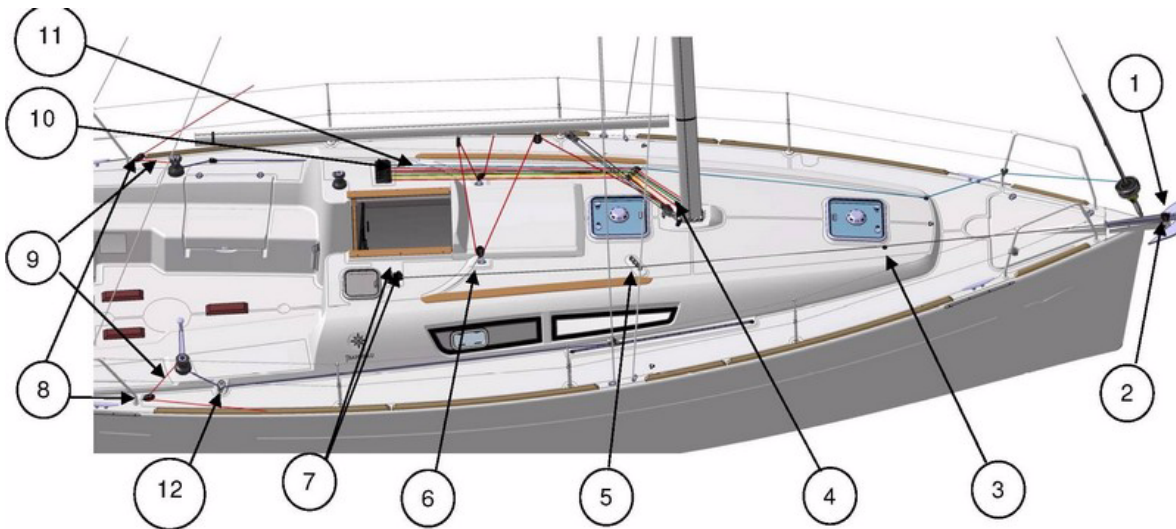
RUNNING RIGGING - SYMMETRIC SPI



RIGGING AND SAILS

	Designation	Number
1	Boom	1
2	Swivel single pulley D72	3
3	Single pulley D72	1
4	Lead	1
5	Swivel single pulley D50	2
6	Cheek block	1
7	Spinnaker halyard Length 35 m Diameter 10mm	1
8	Spinnaker boom downhaul Length 12 m Diameter 8mm	1
9	Boom lift Length 31 m Diameter 8mm	1
10	Single clutch	2
11	Spinnaker sheet Length 20 m Diameter 12mm	2
12	Single clutch	1
13	Cheek block	2

RUNNING RIGGING - ASYMMETRIC SPINNAKER



	Designation	Number
1	Single pulley D72	1
2	SHACKLE Lyre 8mm	1
3	Lead	1
4	Swivel single pulley D50	1
5	Cheek block	1
6	Spinnaker tack Length 12 m Diameter 10mm	1
7	Jammer Single	2
8	Single pulley D72	2
9	Spinnaker sheet Length 20 m Diameter 12mm	2
10	Jammer Single	1
11	Spinnaker halyard Length 35 m Diameter 10mm	1
12	Cheek block D60	2

MAINTENANCE

- Regularly rinse the drum and swivel.
- Lubricate the bearings if recommended by the manufacturer.
- Unrig the sails if your boat is not to be used for long.



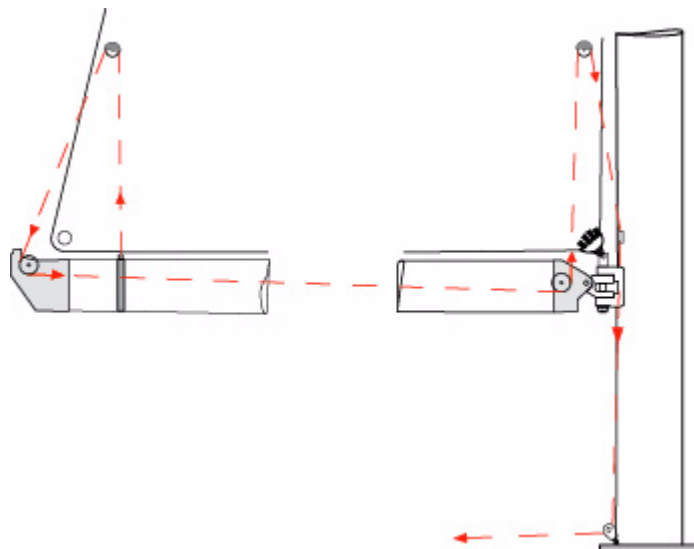
LAZY-BAG: FITTING

- Spread out the lazy-bag on the deck.
- Slide the battens in and close the batten pockets.
- Hank on the lazy-bag until you have the front part about level with the gooseneck.
- Fasten the lazy-bag to the tack with the strap provided.
- Stretch the lazy-bag from the back before you fasten the lazy-jacks.
- Put the mainsail into the lazy-bag.

PIECE OF ADVICE - RECOMMENDATION

- When you are not sailing, slacken the genoa halyard.
- Install the lazy-bag before the mainsail.
- When the sail is unfurled, adjust the halyard tightness.
- Too much tightness may cause furling problems.
- After taking in a reef for the first time mark the halyard position at the clutch (marker pen or light stitched label) in order to be able to let out the sheet with precision in subsequent manoeuvres.

AUTOMATIC IN-MAST REEFING BLOCK DIAGRAM



PIECE OF ADVICE - RECOMMENDATION

- At the end of the sailing season, and if possible before winter, leave your sails to a specialist to have efficient maintenance and repairs.

SAILS

How long a sail lasts mainly depends on its regular maintenance.

When sailing, trim the sails properly in accordance with the stresses in order to reduce the harmful strains on the fabric.

Avoid tears and wear: Use protective items against chafing on the the accessories with rough surfaces (protective items for spreaders, stanchions etc.).

Have a sail maker's kit and a user's manual so that you may carry out the emergency repairs waiting for the sailmaker's assistance.

AUTOMATIC REEFING SYSTEM

When you reef down automatically, the mainsail halyard shall not be too loose, otherwise the reefing blocks take up improper positions.

The diagram shows the path of the automatic reef line and does not indicate the standard take system.

SHORTENING THE STANDARD MAINSAIL

To shorten sail:

- Head into the wind.
- Slacken off the kick strap.
- Slightly slacken the mainsail sheet.
- Slightly slacken the mainsail halyard.
- Take in the reef line.
- Take up the slack in the mainsail halyard.
- Reset the mainsail sheet.
- Take up the kick strap slack if necessary.

SHORTENING THE FURLING MAINSAIL

To reduce the surface area of the mainsail:

- Gradually take in the mainsail furling line while letting out the foot tack line (keep the boom perpendicular to the mast).

CLEANING AND MAINTENANCE

Rinse the sails with fresh water from time to time and dry quickly in order to avoid mildew.

Avoid drying the sails to windward when on the mast (when the sails lift, the seams are worn, the sails may be torn by the rigging).



HAULING DOWN THE STANDARD MAINSAIL

To haul down the mainsail:

- Head into the eye of the wind.
- Slacken off the kick strap.
- Take up the slack in the Lazy bag ropes.
- Slacken off the mainsail halyard while taking up the reef lines to control the mainsail descent.
- Fold the mainsail into its lazy-bag.
- Take up the mainsail sheet to immobilise the boom.
- Immobilise the mainsail halyard.

SAIL STORAGE/FOLDING

Avoid storing a wet sail to prevent mildew from appearing.

Accordian fold the sail parallel to the foot, then roll it up to the bag dimensions.

PROTECTION

UV rays are harmful to polyester and nylon. If the sails remain on the mast, even for 24 h, protect them with a cover or a protection fabric placed on the leech and foot of the furled sails.

Our distributor network offers you accessories that have been selected by the yard and are consistent with your needs.



INTERIOR

INTRODUCTION

INTERIOR MAINTENANCE

MAINTENANCE OF FABRICS

INTRODUCTION

INTERIOR





INTERIOR MAINTENANCE

INTERIOR

- Take advantage of the fine weather to take the settee and berth cushions out.
- Put the cushions vertically if you leave the boat for long.
- Use blinds to protect the inside of the boat against UV rays.
- Carefully remove all crumbs.
- Make sure the bilges are clean and dry.
- Installed in the square of a dehumidifier air leaving the cabin doors and open storage (cupboards, coolers).
- During long absence leave the fridge and icebox doors open to avoid mould developing.
- Defrost the fridge regularly/Cool box.

INSIDE VARNISH

- Rinse the inside varnish with fresh water mixed with spot remover and shampoo.
- Polish the inside varnish with shammy leather.

MAINTENANCE OF FABRICS

STAIN REMOVAL

- Dab with a clean rag.
- Remove the stain with a solvent poured onto a clean rag. Never pour the solvent directly over the stain.
- Rub with a clean and dry rag.
- Brush the fabric against the grain.
- Use the vacuum cleaner when the fabric is dry.

PVC OR COATED FABRICS

- Use a sponge and water and soap (household soap type).
- Dab away resistant stains with a rag soaked with white spirit, do not rub them.

PIECE OF ADVICE - RECOMMENDATION

- Preferably wash your boat on shore.
- Use as few cleaning agents as possible.
- Don't discharge your cleaning product into the water.
- Take the removable upholstery inside when the vessel is not being used.
- Place protective covers/awnings.
- Mark up each cover and foam when dismantling.

PRECAUTION

- For the PVC fabrics, don't use any solvent or solvent based product (pure alcohol, acetone, trichloroethylene).

Opening / Door holding forward



Opening / Closure Inside doors



Releasing top - Dining table



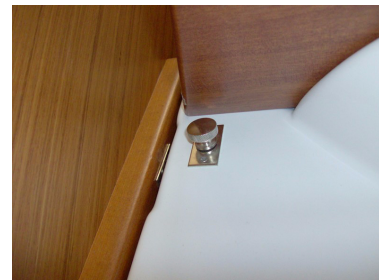
Switches - found at light fittings



Chart table swivel



Access: Engine compartment
Must be closed while sailing





100% POLYESTER/DRALON JACQUARD

If you cannot remove the fabric:

- Clean with the vacuum cleaner.
- Clean with synthetic foam (please refer to the product instructions).

If you can remove the fabric:

- Hand wash with an ordinary washing powder at 30° C.

In both cases, dry cleaning is possible. Remove the stains as soon as possible with a damp rag.

COTTON JACQUARD

- Dry clean.
- Do not iron.
- Do not use hypochlorite.
- Remove the stains with fractionated petrol.



WATER AND SEWAGE WATER

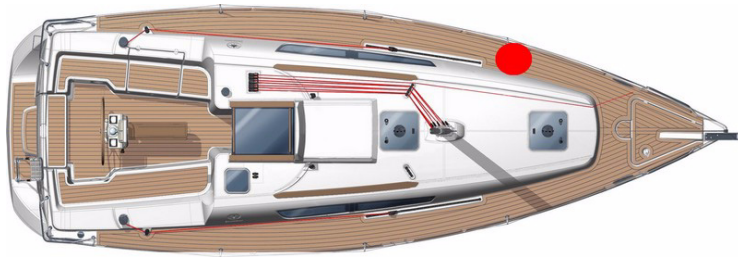
WATER TANK

WATER SYSTEM - DISTRIBUTION

WATER SYSTEM - DRAINAGE

SEWAGE

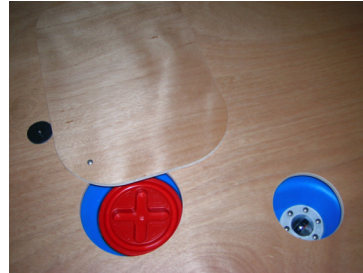
Deck filler - Port catwalk



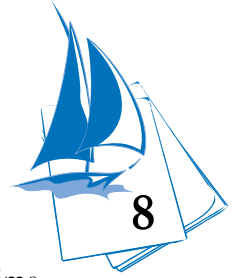
Water tank - 160 l



Access - Gauge and Inspection hatch



WATER TANK



OPERATION

In order to prevent any handling mistakes, never fill the water and fuel tanks at the same time.

During filling, avoid handling contaminants near the fillers.

Open and close the filler caps with the suitable key.

Check the filler cap seals for condition during filling.

The tanks are fitted with overflow outlets and vents.

Never insert the water filling hose deep down into the system in order to prevent any over-pressure in the systems.

PIECE OF ADVICE - RECOMMENDATION

- Pay attention to the quality of the water for the filling up. Check if it is drinking water.
- It is possible to sterilize the tanks with a Clonazione tablet (sold at the Chemist's).
- If the boat is not used for long, purify the tanks and pipes with acetic acid (or white vinegar).
- For winter storage instructions and precautions, refer to Chapter 13.

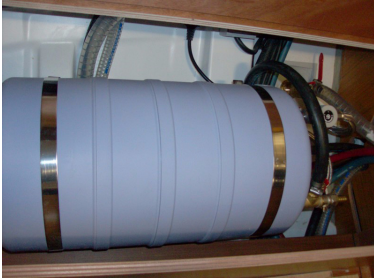


WARNING

- Tanks nominal load capacity cannot be fully used based due to trim and boat loading. A 20% reserve should be kept

WATER SYSTEM - DISTRIBUTION

**Water heater 220V-
25 liter -
Saloon seating To starboard**



**Water unit -
Saloon backrest To starboard**



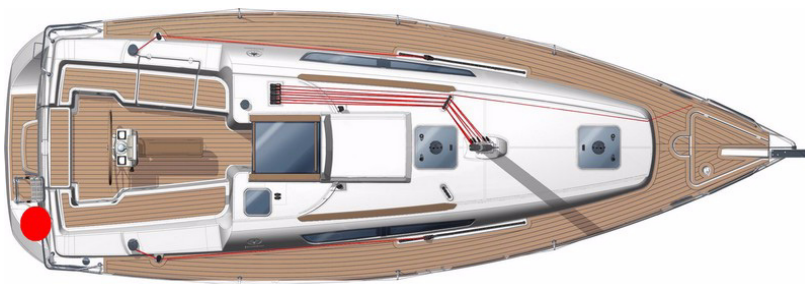
PRECAUTION

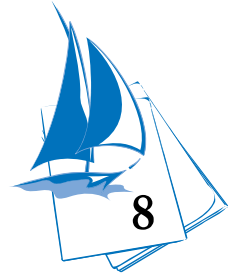
- Never operate the water system equipment when the valve is closed or the tank is empty (the electrical equipment may be damaged).
- Check the water filter for condition (refer to manufacturer's instructions).
- Close the taps of empty tanks.
- Bleed the cockpit shower water system to avoid freezing.

USE OF THE WASHBASINS AND SHOWERS

- Close the valves and turn off the taps after use.

Cockpit shower spray





PIECE OF ADVICE - RECOMMENDATION

- Regularly check the valves and thru-hull fittings for proper operation and watertightness.
- Turn off the valves when the water system is not in use.
- Visually check the water pump flow.
- Check the clamps and flexible hose connections for tightness.
- Pay attention to the seals for condition.
- Regularly make sure that the strum box and bilge are perfectly clean.
- Immediately switch off the electric system in case a pump is running while all the water supplies are turned off.
- In case of a leak check the system.

OPERATION

Waste water from the sink, washbasins and heads is drained off by thru-hull fittings with ball valves (the valve is closed when the valve handle is perpendicular to the hose, the valve is open when the valve handle is in line with the hose).

All the floors have holes (limber holes) for the water flow.

A watertight bilge tray under the engine receives the possible oil leaks.

A main sump located above the ballast receives water from the bilges.

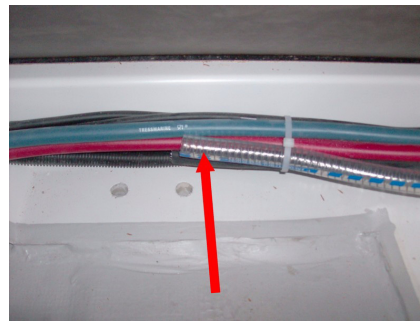
.The main sump is partially drained by an electric or a manual pump. Regularly dry the sump with a sponge.

Galley draining



Drainage - Galley sink
Saloon seating To starboard

Icebox drainage



Directly to bottom

Drainage - Washbasin + Washroom shower



Under the cupboard Head version

Draining pump for shower



Control draining pump for shower



Drain plug shower draining





SEWAGE

USE OF THE MARINE HEADS

Before you use the heads, check that the water intake valve and draining valve are open.

To empty the bowl:

- Set the control lever of the pump slantwise (FLUSH).
- Operate the pump.

To dry the bowl:

- Set the lever back vertical (DRY).
- Operate the pump.

To avoid blocking the toilets only use absorbent paper in reasonable quantities.

Schedule a regular rinsing through of the heads with fresh water.

Close the valves after each use (in particular when the boat is unattended).

ELECTRIC TOILET

The electric toilets operate with seawater only. A switch enables the water intake and drain cycle of the bowl to be activated. A switch enables the bowl to be rinsed.

PIECE OF ADVICE - RECOMMENDATION

- When you are in a marina, use the club-house sanitary facilities (if there are).
- Since it is prohibited to discharge sewage water in certain marinas or countries it may be necessary to use the foul water holding tank ("WHT").



WARNING

- Tanks nominal load capacity cannot be fully used based due to trim and boat loading. A 20% reserve should be kept

RESPECT OF THE ENVIRONMENT

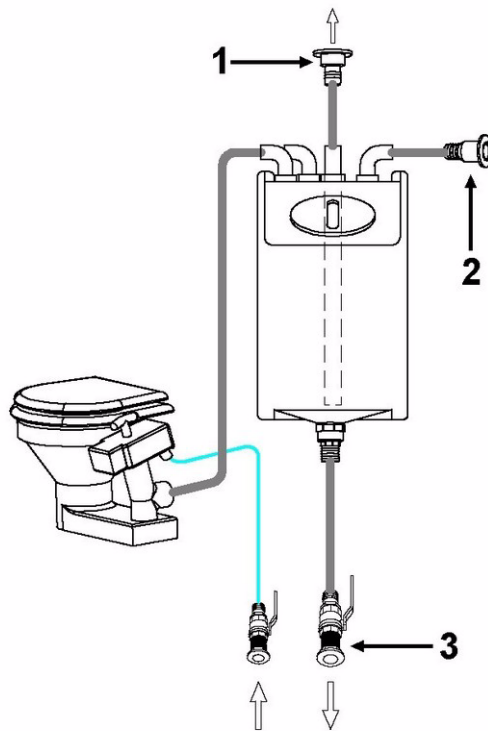
- Remain informed of local regulations concerning the environment and follow the codes of best practice.
- Do not drain the contents of the sewage tank near the coast or in zones where it is forbidden.
- Make use of the port or marina pump facilities to drain the sewage tank before leaving port.
- Find out the international regulations against marine pollution (Marpol) and follow them as far as possible.

PIECE OF ADVICE - RECOMMENDATION

- Completely empty the black water system before stationing the vessel in negative temperatures.

EXCREMENT TANKS

Schematic diagram



1. Deck filler - Suction and Rinsing
2. Tank vent hole
3. Drainage to sea

Waste holding tank (WHT): 80 liter.

Access: Cockpit locker To port





USE OF MARINE HEADS EQUIPPED WITH A WASTE HOLDING TANK (WHT)

Open the water intake valve (valve handle parallel to the pipe).

In the case of a direct discharge into the sea: Open the draining valve.

In case you store the waste waters in the tank: Make sure the draining valve is closed (valve handle perpendicular to the pipe).

To drain the bowl, set the control lever of the pump slantwise (FLUSH) then operate the pump.

To dry the bowl, set the lever vertical (DRY) then operate the pump.

In order to avoid clogging the heads:

- Only use absorbent paper in reasonable quantities.
- Schedule a regular rinsing through of the system with fresh water.
- Always retain a little water in the bottom of the bowl to avoid smells

To empty the tank:

- In an authorized area, open the draining valve.
- In a marina equipped with a system to suck the waste waters, put the sucking hose into the tank through the deck filler. Start the pump of the sucking system. The filler caps are opened and closed with an appropriate key. When the tank is empty, check the cap seal for condition then close the filler.



WARNING

- Ask for information about the laws in force in your country or your marina about discharging your waste waters into the sea.

PRECAUTION

- Close the valves after each use and above all when the boat is unattended.

PRECAUTION

- Regular check the tank level. High pressure due to too high a level may cause leaks or more unpleasant troubles.

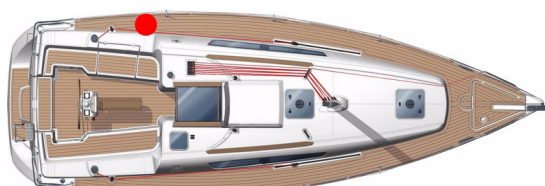
Seawater inlet -
Under Washbasin



Valve Drainage to sea -
Under the bed -
Aft cabin



Drainage Deck -Port catwalk





ELECTRICAL EQUIPMENT

GENERAL INFORMATION

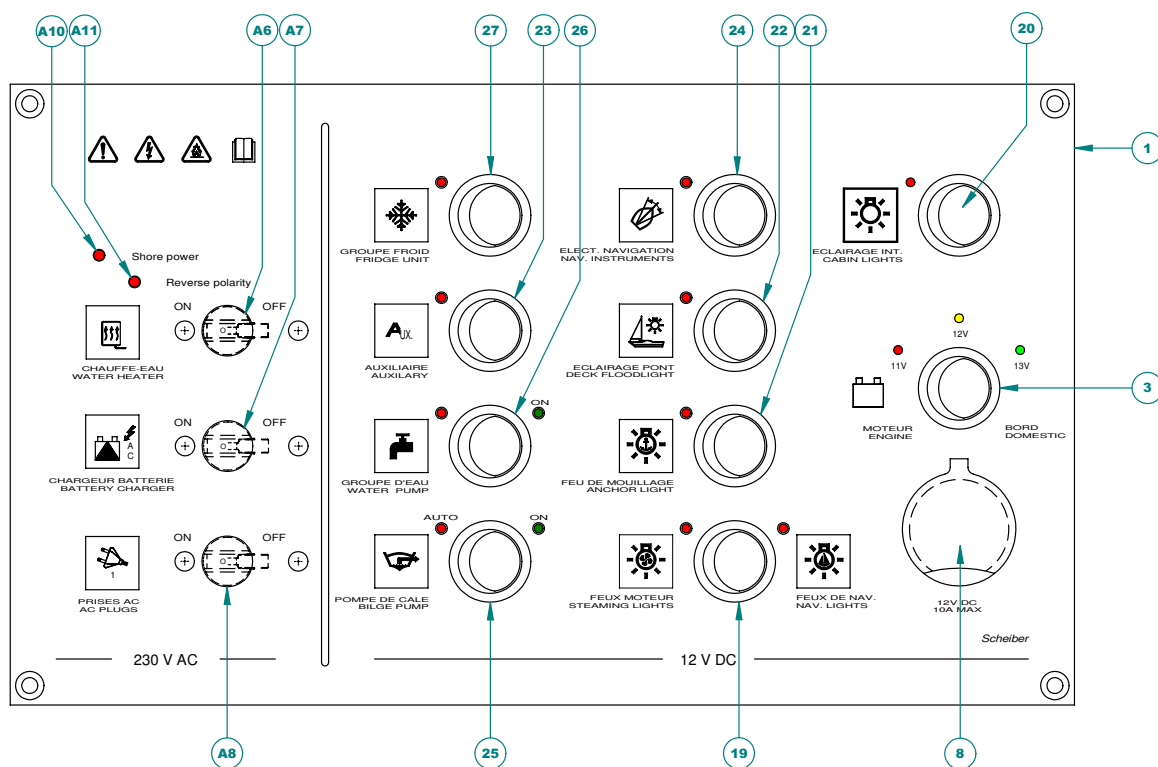
12 V DC SYSTEM

110-220 V AC SYSTEM

EQUIPMENT

ELECTRICAL LAYOUT - MAIN COMPONENTS

Electrical panel - Port saloon





References on dia- grams	Functions
1	"DC AMPS / 12V DC electrical panel"
3	Change over switch - voltmeter inlet
8	12V DC socket electrical panel
19	Switch - navigation lights / Engine navigation light
20	Switch Interior lighting
21	Switch Mooring light
22	Switch Deck light
23	Switch Auxiliary (optional)
24	Switch Navigation electronics
25	Switch Bilge pump
26	Switch Water unit
27	Switch Refrigeration unit

References on dia- grams	Wire referen- ces	Amperage or wattage	Functions
A6	A6	15A	Bipolar circuit breaker Water heater
A7	A7	15A	Bipolar circuit breaker Battery charger
A8	A8	15A	Bipolar circuit breaker AC sockets
A10	A10		Live shore power line warning light - "Shore Power"
A11	A11	115V AC	Warning light - reversal of polarity

GENERAL INFORMATION

ELECTRICAL PANEL

The electrical switchboard does not require any routine maintenance. In case an electric appliance is not energized, check:

- The main power supply (batteries, battery switches).
- The switches and circuit breakers on the line.
- the relevant electrical unit.

ELECTRICAL CIRCUIT, 12 V



GENERAL RECOMMENDATIONS

- Never work on a live electric fitting.
- The batteries must be strongly fastened.
- Do not block the battery ventilation ducts, some of them may give off hydrogen which represents a danger of explosion.
- The batteries must be handled with care. In the case of contact with electrolyte thoroughly rinse off the affected part of the body and consult a doctor.
- To avoid short-circuiting between the battery poles do not store conducting objects near to the batteries (metal tools, etc...).
- Turn off the electrical circuit with the battery switches when installing batteries or during their connection/disconnection.
- Never modify the specifications of power overload protection devices.
- Never modify an installation. Use the services of a qualified marine electricity technician.
- Never install or replace the electric appliances (or any electric equipment) by components exceeding the capacity (amperage) of the circuit.
- Do not leave the vessel unattended when the electrical system is switched on .
- Certain lights represent a significant heat source, be careful of surrounding objects.

Note that the 12 V circuit wires are red for positive and black for negative.



DANGER

- There may be danger of fire or explosion if direct current systems are incorrectly used.



WARNING

- Handle the batteries with care (Please refer to the manufacturer's instructions).
- In case of electrolyte splashing, thoroughly rinse the part of the body that has been in contact with it. Obtain medical advice.

PIECE OF ADVICE - RECOMMENDATION

- Keep the batteries clean and dry in order to avoid premature wear.
- Periodically check the electrolyte level. Add distilled water when needed.
- Tighten and maintain the terminal connectors by greasing them regularly.
- Disconnect the batteries during winter storage or long periods of inactivity.

BATTERIES

Battery charging is achieved through the alternator coupled to the engine or through use of the 220 V shore charger.

Keep the batteries charged enough (essential to ensure them a correct service life).

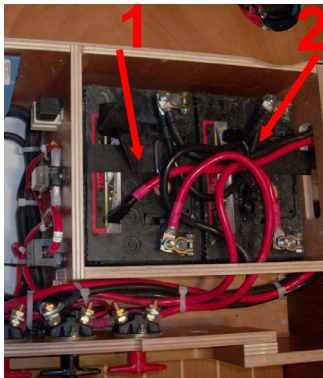
Make the most of time alongside to use the 220 V shore charger so as to start out sailing with fully charged batteries.

Always check the battery and charge system condition before you put out to sea.

BATTERY CHARGER 12/220V - 25A - AFT CABIN



BATTERY SET - AFT CABIN



1. Engine battery 70A
2. Service battery 70A
3. Spare battery 70A



BATTERY SWITCH

The electricity onboard is 12 V DC.

The electrical system consists of service batteries.

The batteries supply power to all the functions on board.

The engine has its own battery.

Switch on the electricity by turning the positive and negative battery switches (12 V).



BATTERY SWITCH - AFT CABIN

1. + Engine
2. - Common
3. + Service



WARNING

- Never work on a live electric fitting.
- Do not touch battery terminals, risk of electric shock.

PRECAUTION

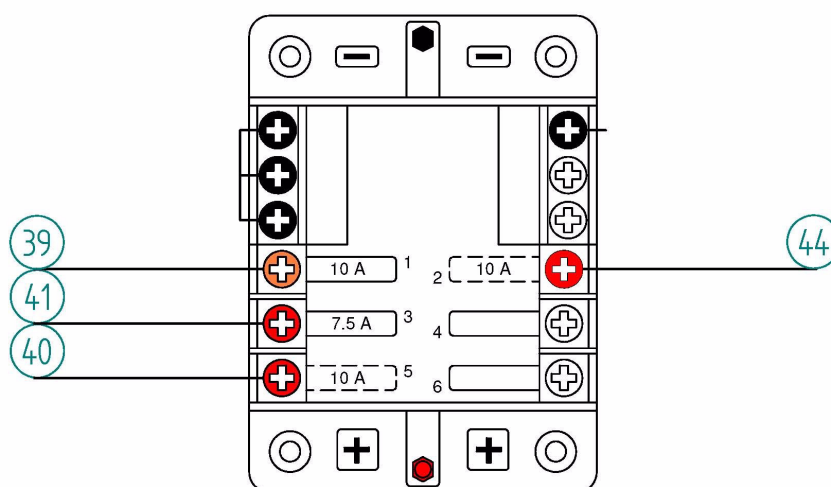
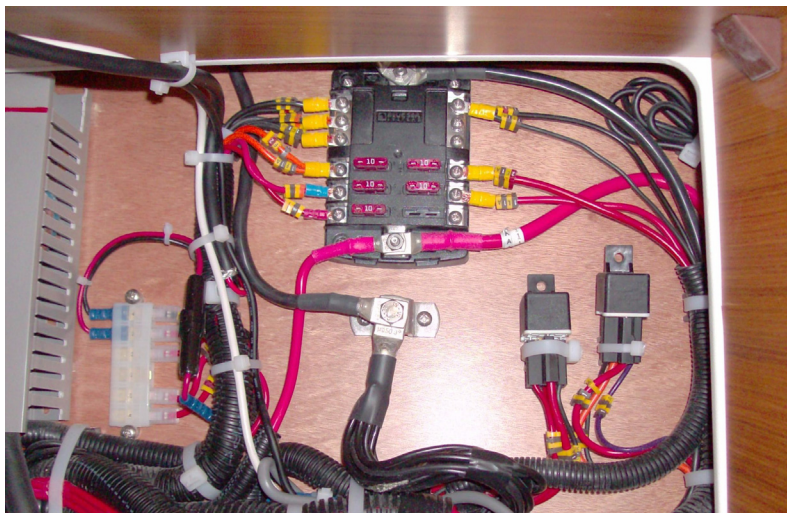
- Switch off the electrical system with the battery switches when the boat is unattended.
- Never leave the vessel unattended with the mains electricity switched on.
- Turn off the electrical system with the battery switches and circuit breakers before gaining access to the rear of the electrical panels.
- Check the level of maintainable lead batteries.

PIECE OF ADVICE - RECOMMENDATION

- It is recommended that you switch off all electrical devices before turning off the battery switches.

FUSES - LAY OUT OF - POWER

Fuse board - Back of electrical panel



39. Sockets 12V

40. Automatic Radio

41. Shower pump

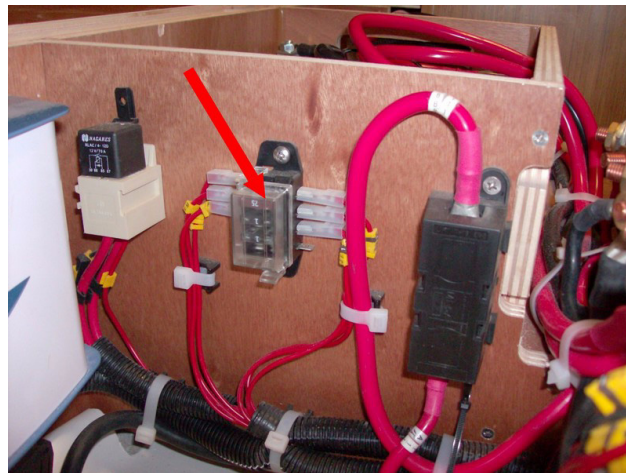
44. Auto pilot

Fuse board - Aft cabin

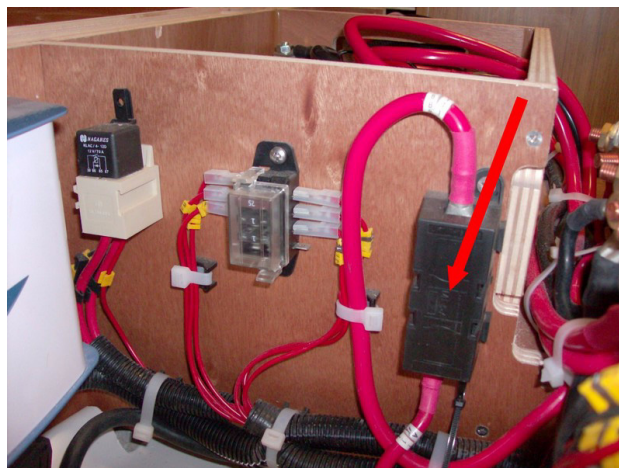
Electrical gauge

Voltmeter

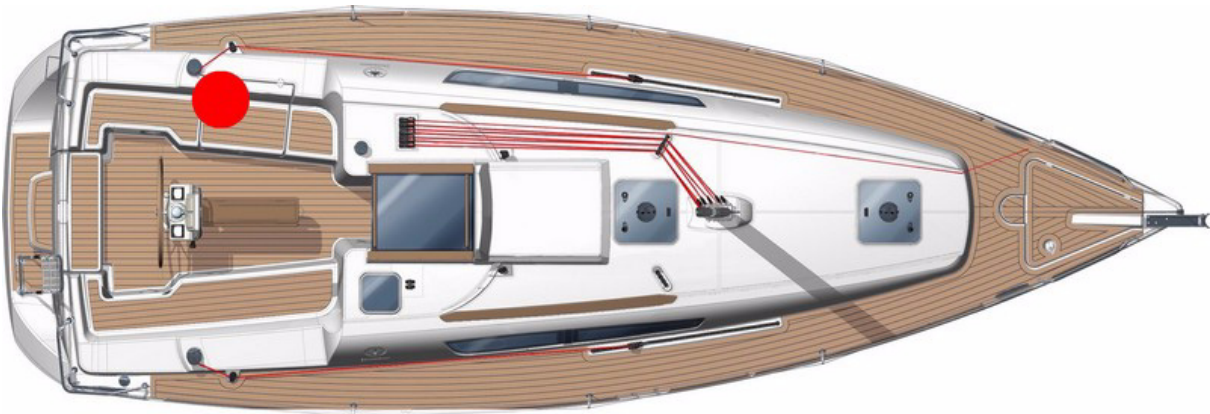
Engine compartment ventilator



Fuse 100A - Main service circuit protection 12V



SHORE POWER SOCKET



Extension passage

In aft cabin



Shore power socket 16A - Breaker

Access through the cockpit locker To port



PIECE OF ADVICE - RECOMMENDATION

- In order to reduce the risks of electric shock and fire:
- Before you plug in or unplug the boat/shore supply cable, switch off the shut off device connected to the shore supply.
- Plug in the boat/shore supply cable in the boat before you plug it into the shore supply socket.
- Unplug the boat/shore supply cable on shore first. Close the shore socket cover.
- Do not modify the connections of the boat/shore supply cable.

ELECTRICAL CIRCUIT, 110-220 V



GENERAL RECOMMENDATIONS

Certain vessels are equipped (as either standard or optional features depending on the model) with a 110 V or 220 V circuit.

The following measures are recommended in order to avoid the danger of electrical shock and fire:

- Never work on a live electric fitting.
- Plug in the boat/shore supply cable in the boat before you plug it into the shore supply socket.
- Never let the end of the boat/shore supply cable hang in the water.
- Turn off the shore supply with the onboard cut-off device before connecting or disconnecting the vessel/shore supply line.
- Disconnect the vessel/shore supply line at the shore socket first.
- Check the polarity indicator for the shore connections (110V AC version).
- If the reverse polarity indicator is activated immediately disconnect the line. Rectify the polarity fault before using the vessel's electrical installation.
- Close the shore supply input cover firmly after use.
- Do not modify the vessel/shore supply line connections; only use compatible connections.
- Do not alter the vessel's electrical system. The installation, modifications and maintenance must be carried out by a qualified marine electricity technician. Check the system at least twice a year.
- Disconnect the vessel supply when the system is not being used. This is to prevent the danger of fire.
- Use electrical appliances with a double insulation or earthing.

Note that the live wires are brown, the neutral ones are blue and the earth wires are green and yellow.



DANGER

- Never let the end of the boat/shore supply cable hang in the water: The result may be an electric field liable to hurt or kill the swimmers nearby.
- There may be danger of electrocution if alternating current systems are incorrectly used.

PRECAUTION

- Never modify an electric fitting and relevant diagrams yourself.
- Call in a technician skilled in marine electricity to carry out any electric modification.
- Never change the breaking capacity (amperage) of the overcurrent safety devices.
- Never install or replace the electric appliances (or any electric equipment) by components exceeding the capacity (amperage) of the circuit (Watt for bulbs).

ELEMENTS 220 V

Water heater - 220V socket



EQUIPMENT

GENERAL INTRODUCTION

(As far as possible) use electric appliances with double insulation or with three conductors (Neutral-Live wire-Ground).

ELECTRONIC

Wire runs are available to complete the boat equipment.

Do not install electronic instruments or repeaters less than 1,50 m away from the radio loudspeakers.

Piece of advice: For further information refer to the appliance instructions.

MAINTENANCE

Clean the repeater dials with freshwater. Refer to the instructions before using any other produce. The use of alcohol must be avoided.

PIECE OF ADVICE - RECOMMENDATION

- Place the protective covers on the repeaters when unused for long periods.
- When sailing store the protective covers inside the boat to avoid losing them.
- The different repeater displays are back-lighted.
- The onboard radio is fitted with two outside speakers.
- When mooring be careful to adjust the sound so as not to disturb your neighbours.

ELECTRONIC

LEAD LINES

The log and sounder transducers are found under the saloon floor. Keep the log sensor cowl close to the instrument so as to be able to intervene in complete safety.

Do not store material on top of the sensors.

AUTO PILOT

The pilot consists of several elements listed as follows:

- Repeater in the cockpit.
- Compass in the cabin hanging locker located in rear port.. A diagram enables it to be found easily.
- Logic controller, piston and hydraulic pump, either side of the rudder sector in the aft cabin.
- To supply power to all elements switch on the "Navigation" circuit breaker on the electrical panel.

For use and maintenance of the material consult the manufacturer instructions.

MAINTENANCE

Clean the transducer probe during each dry dock and the log sensor regularly. Read the instructions for maintenance recommendations.

Refer to chapter 12 "Launching" for the precautions to be taken concerning the sensors during hoisting.

PIECE OF ADVICE - RECOMMENDATION

- For optimal operation remove all metal objects from its close proximity.
- Do not store material close to the calculator and electrical connections.

ELECTRONIC - POSITION OF ELEMENTS



Log and depth sounder transducers
View interior



View Outside



ELECTRONIC

Gyrocompass -
Hanging locker - Aft cabin



Vessel Management Unit -
bulkhead - Aft cabin



Lay out of



GPS

Aerial





ENGINE

GENERAL INFORMATION

ENGINE FITTING

GENERAL INFORMATION



TYPE OF MOTORISATION

Your vessel is fitted with an in-board diesel engine.

The transmission is of a shaftline type.

PRECAUTIONS OF USE, OPERATING ADVICE

General point

- In this vessel, do not install an engine with a greater power and weight than that recommended, this will create a danger for its stability.
- Fuel which is stored elsewhere than in the fuel-tanks (portable tanks, jerrycans, etc...) must be kept in a ventilated space.
- Make sure that the engine compartment is clean and dry.
- Avoid contact between inflammable substances and the hot parts of the engine.
- Locate the extinguisher hole which allows access to the engine compartment if a fire should break out. (Refer to chapter 2). On certain models there is a fitted extinguisher system which enables a fire in the engine compartment to be put out. Make sure you know where the activating mechanism is and how it works.

Filling

Fill the fuel tank using the filler. In order to protect the deck from possible fuel splash, wet the area around the filler with sea water before you remove the filler cap. In case of splashing rinse the deck thoroughly (deck filler closed).



DANGER

- Stop the engine and refrain from smoking during fuel tank filling.
- Make sure that the ventilation openings in the engine (and generator, if installed) compartment are well cleared.

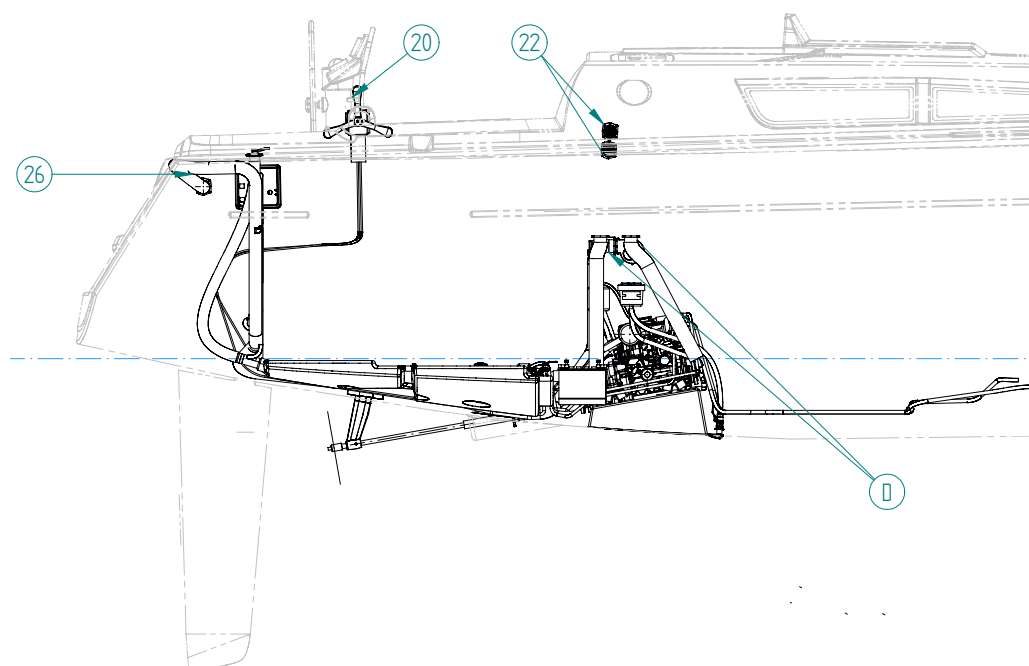
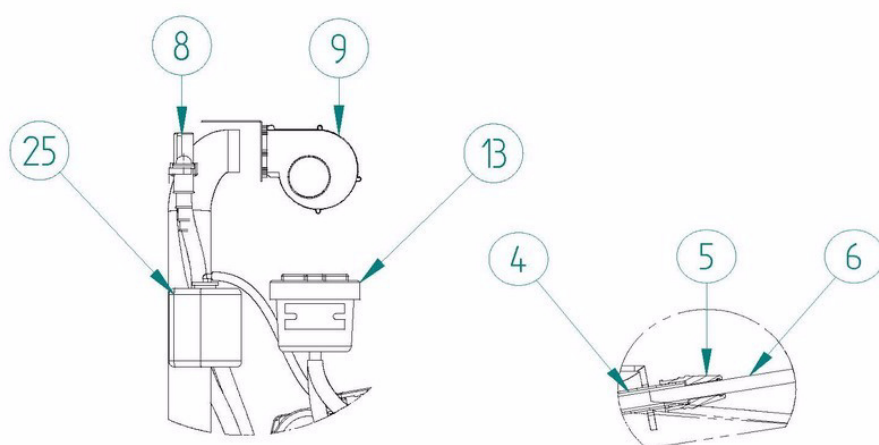
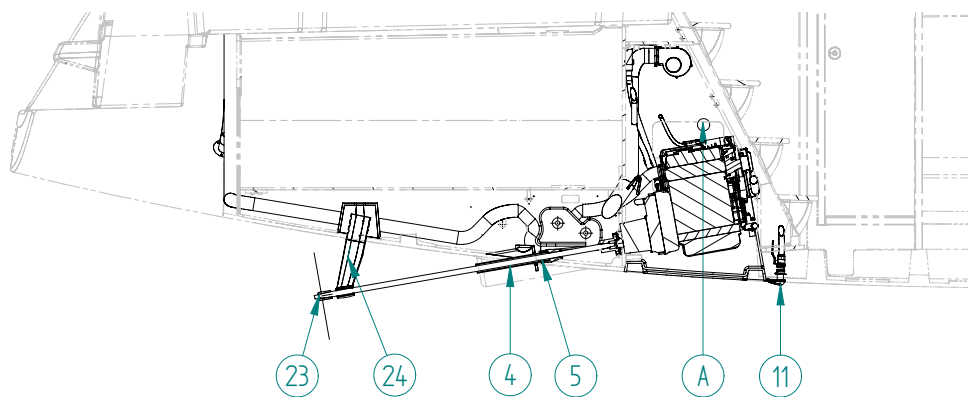
PRECAUTION

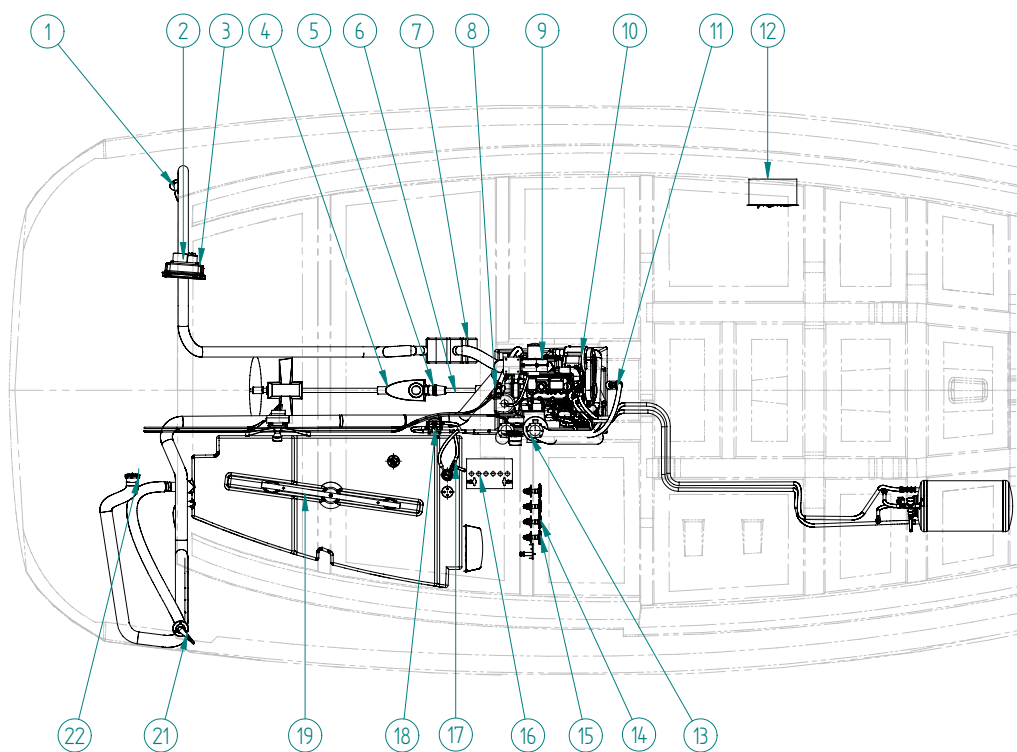
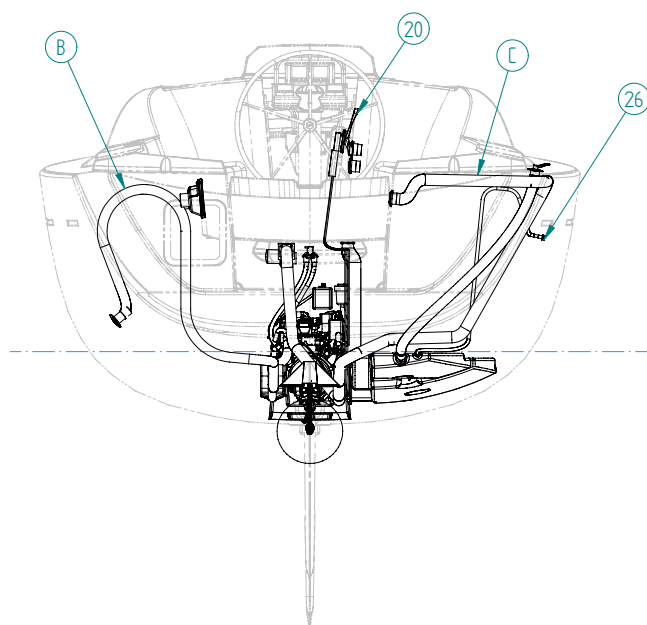
- Never run the engine when the boat is hauled out.

PIECE OF ADVICE - RECOMMENDATION

- Carefully read the engine instructions given with your boat.

ENGINE FITTING

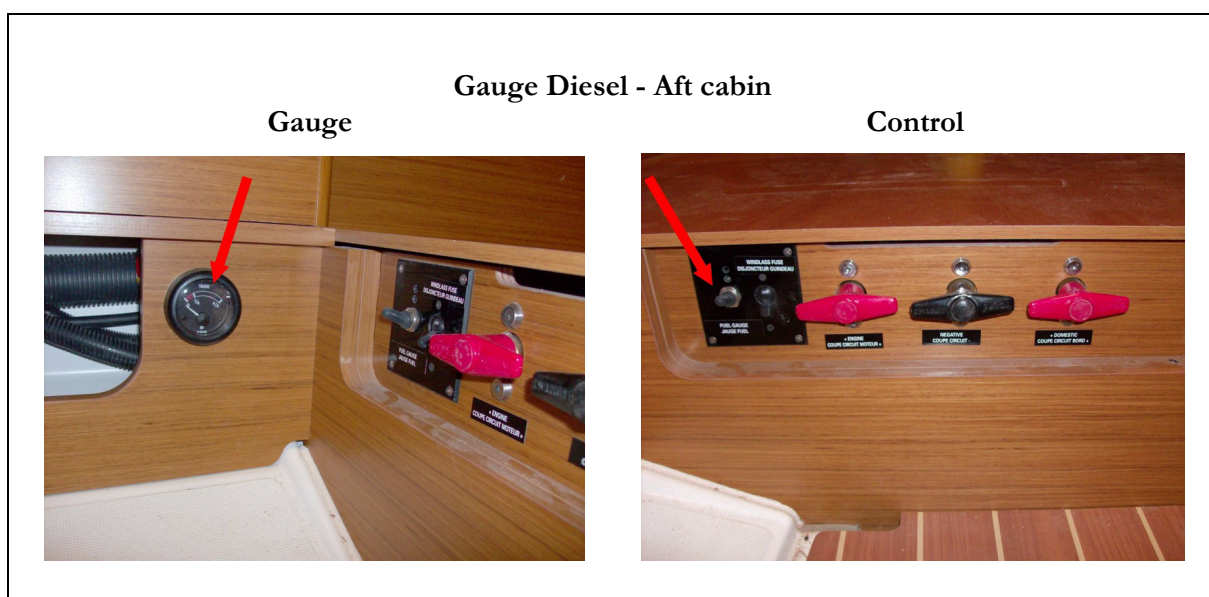
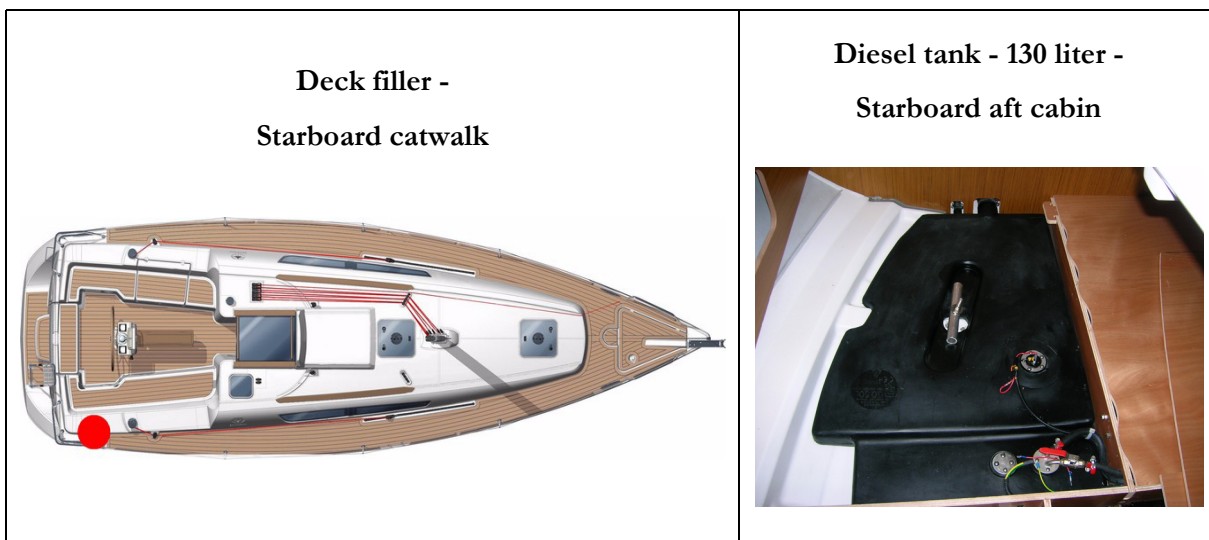




REF	Designation
1	Exhaust outlet
2	Mount engine panel
3	Engine panel
4	Stern frame
5	Ø25 mm stuffing box
6	Propeller shaft + Flange Diam. 25mm
7	Water trap
8	Anti-siphonage item
9	Engine compartment ventilator 12 V
10	Engine
11	Engine water valve
12	Electrical panel 12 V
13	Sea water filter
14	Battery switch of negative terminal
15	Battery breaker - "positive terminal - engine"
16	Engine battery 12 V 70A
17	Fuel supply valve
18	Diesel oil decanter valve
19	Fuel tank 130 litres
20	Control lever
21	Deck filler
22	Ventilation grid
23	Propeller
24	Bearing engine
25	Accumulator tank
26	Fans

PRECAUTION

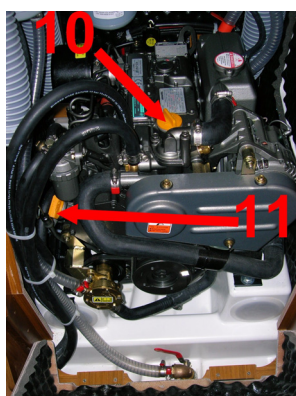
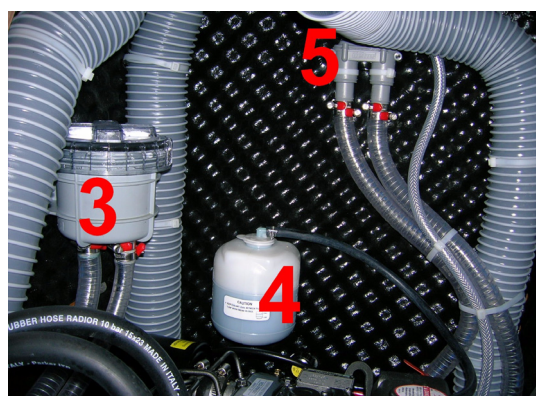
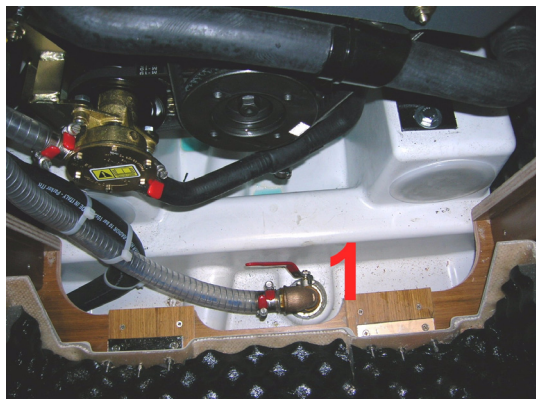
- Stop the engine before you open the companionway hatch and side hatches.
- In case of an intervention when the engine is running:
- Stay away from belts and hot or mobile parts.
- Be careful with full clothes, long hair, rings etc. (you may be caught).
- Wear appropriate clothes (gloves, caps etc.).



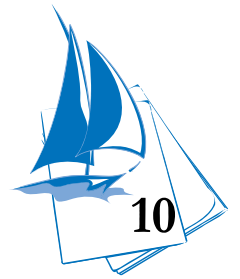
WARNING

- Tanks nominal load capacity cannot be fully used based due to trim and boat loading. A 20% reserve should be kept.

MAIN ELEMENTS OF THE ENGINE



REF	Designation
1	Seawater inlet - Engine cooling
2	Diesel oil pre-filter
3	Sea water filter
4	Accumulator tank
5	Anti-siphonage item
6	Water trap
7	Filler hole - oil Reverser
8	Flange
9	Stuffing box
10 or 11	Filler hole - Oil engine
12	Ventilator 12 V - Engine compartment
13	Filler hole - Cooling liquid



Engine

These instructions give detailed explanations on proper operation of the engine.

- Refill before the fuel tanks have almost run dry (the fuel system may be stopped for lack of fuel).
- Make sure you have enough fuel before sailing.

Access to the engine

Access to the engine is from the mess room.

You can check the main parts thanks to side hatches.



Engine water valve

The water inlet valve of the engine is essential in the engine operation.

- Keep the strainer under the hull as clean as possible.
- Brush the strainer when the boat is careened.
- Do not cover the strainer with antifouling paint.

It is essential that this valve is open before the engine is started (danger of rapid wear and substantial damage to engine installation).

If water does not flow out:

- Stop the engine immediately.
- Check that the valve is open.

Close the water inlet valve if the boat is unattended for long.

Inspect and clean the water filter regularly.



Engine operation

Before starting the engine:

- Turn on the fuel valve.
- Open the valve of the engine cooling system and the valve of the stuffing box (see stuffing box paragraph).
- Operate the battery switches and energize the electric system.
- Disengage the reverse gear (it will make the acceleration possible when in neutral).
- Attach the circuit breaker to the pilot.



DANGER

- Always start the engine with the control lever in neutral.



WARNING

- Never switch off or de-energize the electric system when the engine is running.
- Imperatively operate the stop pull handle (or button) before using the ignition key to switch off a diesel engine.

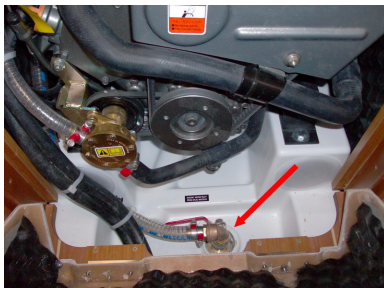
PIECE OF ADVICE - RECOMMENDATION

- Get used to checking immediately after starting the engine if water is expelled with the exhaust gases.

SUPPLY VALVE FUEL - ENGINE WATER VALVE



Fuel oil valve for engine



Engine water valve





Fuel filter

The engine running problems may have different origins, among which dirty fuel. The injection pump may wear out if there is water in the system.

The water results either from the condensation resulting from an insufficiently filled tank, or from a filler cap either not closed properly or with a damaged seal.

In order to prevent any water infiltration, the fuel runs through two filters:

- One filter is an integral part of the engine, its role is to filter fuel very finely. To know when you have to intervene and how frequently you have to change it, please refer to the engine's manual.
- The second filter is on the pipe that links the tank to the engine, it plays the role of a water decanter and prefilter.

Drain by undoing the knurled screw at the base of the decantation bowl (but not removing it).

Allow to flow into a box till the fuel looks clean.

Do it several times a year.

Change the pre-filter at least once a year (access to it when you remove the bowl).

As for the procedures in case of fire, refer to Chapter 2.

Stuffing box

Access to the stuffing box is behind the engine.

Lubricate the seal every 200 running hours (or at least once a year).

Apply the grease the manufacturer recommends in his instructions.

After launching the boat, drive the air out from the sleeve pinching it with your fingers.



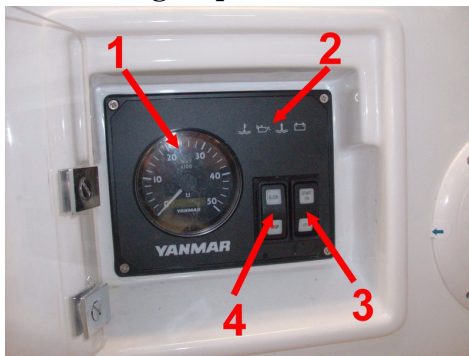
DANGER

- Never obstruct access to the fuel valve.

HANDLE ENGINE CONTROL

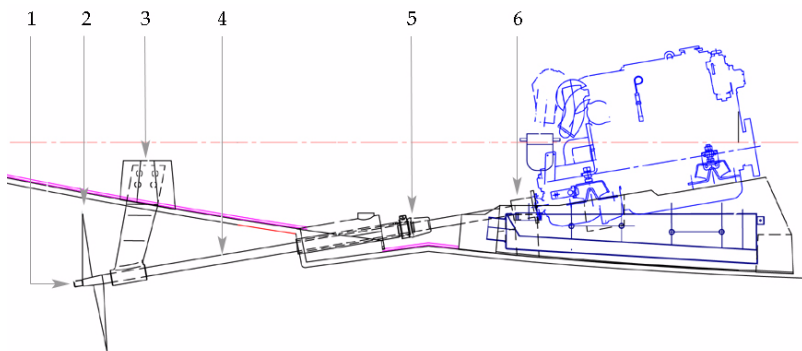


Engine panel detail



1. Revolution counter - Tachometer
2. Control indicator lights
3. Step / Stop
4. Pre-heating

Engine ignition kill drawing

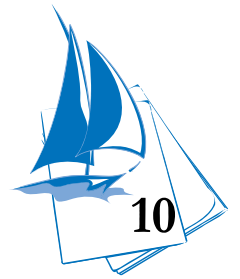


1. Anode
2. Propeller
3. P bracket
4. Propeller shaft
5. Stuffing box
6. Connecting device

Propeller detail



1. Skeg
2. Propeller shaft
3. Bearing
4. Hydrolube bush
5. Propeller
6. Anode



The instrument panel has all the testing functions of the engine and it does not require any special precaution (refer to engine leaflet).

Check the clutch and accelerator cables (lubricate the end fittings and forks).

VISIBILITY FROM THE STEERING STATION

The international regulations to prevent collision at sea (COLREG) and the course regulations make mandatory a permanent and proper surveillance and the respect of priority.

Make sure there is no other boat on your way.

The visibility from the steering station may be obstructed in the following conditions:

- Speed.
- Position of the upper and side awnings.
- Boat heeling over, the sails reduce visibility under wind.
- Load and load distribution.
- Sea conditions, rain, spray, fog or darkness.
- Lights on inside the boat.
- Persons and removable equipments in the helmsman's field of visibility.

PIECE OF ADVICE - RECOMMENDATION

- When the engine is running, avoid making noise and chops near the other users.
- Respect speed limits.
- In case this boat is equipped with a fix blades propeller, when sailing with a sailing speed over 8 knots it is essential to have the gear throttle on the neutral position.
- To start the engine again, reduce the speed of the boat when sailing (in order to be able to disengage the clutch before starting it again).

PRECAUTION

- Change the anode if necessary (Before it lost 50% of its weight).
- Use anodes corresponding to the zone of navigation of the boat (fresh water / sea water).
- If bases are raised, anodes are outside the water: respect the recommendations of the motoriste.



WARNING

- Change systematically anodes at the end of the first 3 or 4 months of launch of the new boat: their wear is accelerated during this period.

NAVIGATION: REMINDER OF SOME ADVICE

Stability

During sailing keep all the portholes, windows and doors closed.

- The stability is reduced when you add weight in the upper parts.
- Stability may be reduced when towing a boat or when heavy weights are lifted with the davits.
- Breaking waves represent a serious danger for stability and for taking in water. Close the companionway doors and hatches in heavy seas.

Prevention of manoverboard

Regularly check the guard-rails:

- With metal guard-rails, watch for corrosion particularly at connecting points.
- With synthetic guard-rails, change them as soon as they show signs of wear due to chafing or UV.

Propeller

The propeller supplied as a standard with your boat is the result of tests carried out jointly with the engine manufacturer.

PIECE OF ADVICE - RECOMMENDATION

- Check the whole propeller shaft several times a year.
- Change the anode if necessary.
- Check and change the cutlass bearing if necessary.

PIECE OF ADVICE - RECOMMENDATION

- Have the whole driving and steering systems checked and maintained by a professional.
- Refer to the manufacturers' instructions supplied with your boat.
- Regularly check the O ring of the filler for good condition (in order to prevent water entries).
- Do not turn off the fuel tap after each use (except in case the boat is unattended for long).
- Keep the fuel tank as full as possible (to avoid condensation).
- Every year check the fuel system for condition (hose, valves, etc.).
- Have a professional to carry out the works on the damaged parts of the fuel system.
- Refer to the manufacturer's manual given with your boat.
- Be careful with any possible risk of oil and fuel spillage.

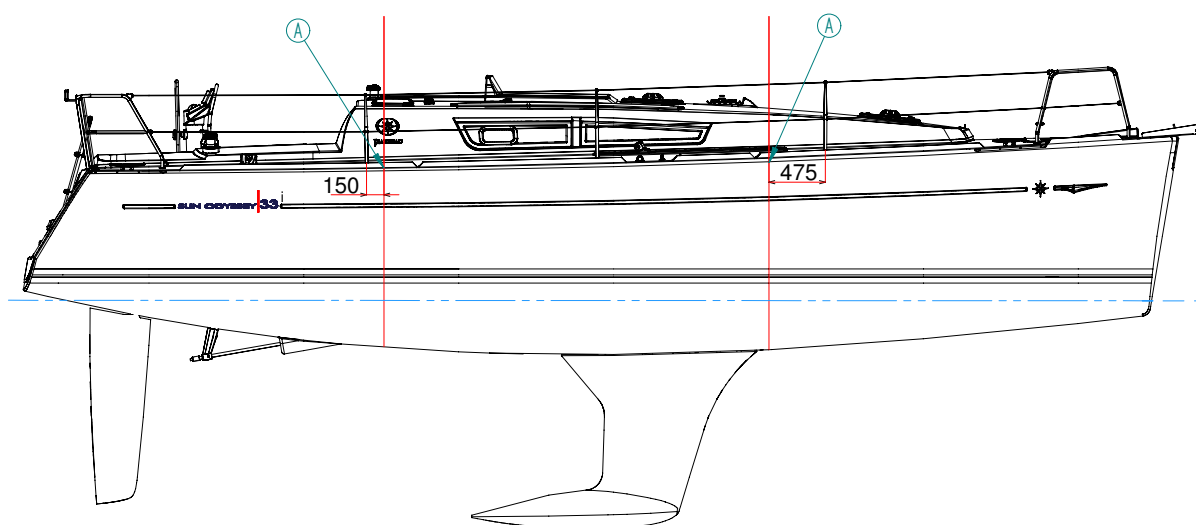


LAUNCHING

LAUNCHING RECOMMENDATIONS

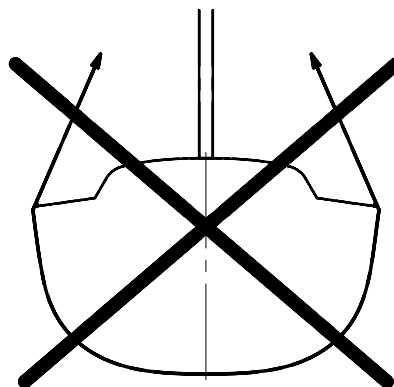
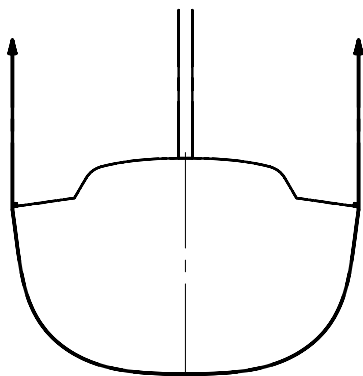
STEPPING THE MAST

POSITION OF HOISTING CRADLE AND STRAPS



A. Position of labels

NOTE: *The measures are expressed in mm.*





LAUNCHING RECOMMENDATIONS

A lot of skill and care is required to commission your JEANNEAU boat. The proper working of all your boat equipments in the future results from the quality of the commissioning operations.

In order to remain completely under guarantee in the case of any failure of parts or materials the first launching and the first trials of different equipment must be carried out by your JEANNEAU dealer.

If later you have to launch your boat yourself, you should take the following precautions:

BEFORE LAUNCHING

- If your boat is to be fitted with sounder and speedometer, allow for the relevant fittings and their installation.
- Check the water intake strain box for cleanliness.
- Check the engine and reduction gear oil levels (refer to engine manual).
- Turn off the engine cooling water drain valves.
- Retract the speedometer into its housing (it may be damaged by the handling belts).
- For the on-line engines, check the anode at the end of the shaft is in place. Check the nut tightening (the lock washer shall be turned over onto the nut). The anode shall not be painted.
- Turn off all the water inlet and drain valves (sink, washbasin, heads, engine).

HANDLING

- Install a fore rope, a rear rope and fenders.
- When craning, check that no device is crushed by the belts (sounder, speedometer, shaft, etc.).
- Locate the strap positions using the stick-on markers. The belt position will be useful during the craning for a future launching.



WARNING

- Do not stay on board or under the boat during hoisting.

PIECE OF ADVICE - RECOMMENDATION

- The proper working of all your boat equipments in the future results from the quality of the commissioning operations.

AFTER LAUNCHING

- Check the sounder and speedometer fittings for tightness if need be.
- Open the valves and make sure that they are tight with the hull and relevant hose.
- Check the stuffing box for watertightness (Refer to chapter 11 "Stuffing box").

Before starting the engine, refer to chapter 11 "Engine".

STEPPING THE MAST

Please contact your dealer.



WINTER STORAGE

LAYING UP

PROTECTION AND MAINTENANCE

LAYING UP

- Take ashore all the ship's log, the ropes that are not used for mooring, the galley equipment, supplies, clothes, the safety equipment, batteries, the gas cylinder.
- Mark again the safety equipment, check the expiration dates, have the liferaft overhauled.
- Take advantage of this laying up to draw up a complete inventory of the equipment.

PROTECTION AND MAINTENANCE

INTERIOR

- Drain all the fresh water pipes and rinse them with water and vinegar (do not use a chlorine based product).
- Lubricate and close all the water inlet valves and thru-hull fittings. Rinse and completely drain the heads bowls and pumps.
- Retract the sounder and speedometer sensors.
- Installed in the square of a dehumidifier air leaving the cabin doors and open storage (cupboards, coolers).
- Leave the cushions outside for long before putting them back into the boat in the upright and side position in order to have minimum contact surfaces.
- Leave refrigerator door open to prevent mildew.

OUTSIDE

- Thoroughly rinse the hull and deck.
- Grease all moving and mechanical parts (latches, hinges, locks, etc).
- Protect all ropes and mooring lines against chafing.
- Protect the boat to the highest degree with fenders.
- Make sure the boat is properly moored.
- Bring the removable cushions inside (washed with soapy water then dried) when the vessel is inoccupied.

All these recommendations do not make up an exhaustive list. .

PIECE OF ADVICE - RECOMMENDATION

- You alone know all the particularities of your boat and its equipment:
- To lay up your vessel carefully and methodically is the best guarantee to avoid problems when re-fitting out.
- All these recommendations do not make up an exhaustive list. Your dealer will give you the advice you need and will carry out the technical maintenance of your boat.
- Take advantage of this laying up to draw up a complete inventory of the equipment.



ENGINE

The engine winterization shall be carried out by a professional. Depending on the boat location, afloat or ashore, winterization is different.

Here are a few major tasks to carry out:

Afloat

- Drain the cooling system and fill it with antifreeze.
- Shut off the battery switches, grease the terminals and check the battery voltage.
- Fill the fuel tanks to a maximum in order to avoid condensation.
- Please refer to the engine manual for anything relating to the engine.

Ashore

- Take the batteries ashore and keep them on maintenance charge.
- Change the anode.
- Carry out the winterization operations specified by the manufacturer, keeping in mind that the freeze hazard is more significant when the boat is ashore.
- Slacken the a.c. generator and pump belts.

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