



XO 360



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XO BOATS

Preface

Congratulations on your new Finnish XO boat! We want to thank you for choosing XO and we hope you enjoy the time you spend aboard.

The purpose of this manual is to help you operate your boat with safety and pleasure. The manual contains the details of the boat and the associated or installed equipment and systems, as well as information on its operation and maintenance.

Please read the manual carefully and familiarize yourself with the boat before using it. Naturally, you cannot learn the skills of seamanship and safe boating by reading a User Manual.

If this XO is your first boat, or if you are changing to a type of boat you are not familiar with, for your own comfort and safety please ensure that you obtain handling and operating experience before assuming command of your boat. Your dealer, boating clubs and national sailing

and yacht federations will be pleased to advise you of local boating schools and competent instructors.

Make sure that your boat's design category is appropriate for the expected wind and wave conditions and that you and your crew are capable of handling the boat in such conditions. The wind and wave conditions specified for design category C may include gales and high winds, with risk of exceptional waves and gusts. Such conditions are dangerous and can be sufficiently handled only by a competent and fit crew in a well-maintained boat. This User Manual is not a detailed maintenance or troubleshooting guide. If a problem occurs, please contact your XO dealer. If a repair is required, use only the companies recommended by your XO dealer.

KEEP THIS MANUAL IN A SAFE PLACE AND HAND IT OVER TO THE NEXT OWNER IF YOU SELL THIS BOAT.

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VENEMALLI: XO 360

Craft identification number - Cin:

Engines make and model:

I Owner

First name:

Surname:

Domicile:

Year of purchase:

II Owner

First name:

Surname:

Domicile:

Year of purchase:

III Owner

First name:

Surname:

Domicile:

Year of purchase:

IV Owner

First name:

Surname:

Domicile:

Year of purchase:

V Owner

First name:

Surname:

Domicile:

Year of purchase:

VI Owner

First name:

Surname:

Domicile:

Year of purchase:

1 BEFORE DEPARTURE

Read this User Manual carefully. Before each departure, check at least the following:

Weather and weather forecast

Take the wind, waves and visibility into account. Is your boat's design category, size and equipment, as well as the skills of the helmsman and crew adequate for the waters you are about to boat?

Load capacity

Do not overload the boat and always distribute the load properly. To avoid diminishing your boat's stability, do not place heavy items too high up.

Passengers

Make sure that a life jacket is available for each person on board. Before departure, agree on the tasks to be performed by each person during the outing.

Fuel

Make sure that there is enough fuel on board, including a sufficient reserve in case of bad weather, for example. You should have at least a 20% reserve to allow for the unexpected.

Engine and equipment

Check the operation and condition of steering, electrical

devices and battery, and perform all daily inspection procedures specified in the engine manual. Check the boat's seaworthiness in general: check the boat for fuel and water leaks, make sure that the necessary safety equipment is on board, etc. Check that the bilge water level is at the minimum.

Ventilation

Make sure that the fuel tank compartment is properly ventilated to minimize the risk of fire.

Securing of equipment

Make sure that all items on board are secured so that they remain in place in rough seas and high wind.

Nautical charts

If you are not fully familiar with the planned route, make sure that you have nautical charts that cover a large enough area.

Departure procedures

Agree with the crew on whose task it is to detach each line, etc. Make sure that the mooring lines or any other lines do not get caught in the propeller during manoeuvring.

2 GENERAL

The purpose of this User Manual is to help you familiarize yourself with the characteristics of your new boat. Separate manuals for the equipment installed on the boat are attached and also referred to in a number of sections of this manual. Naturally, you can complement this manual with manuals of any device installed later on. There is also space reserved for your own notes at

the end of this manual. The units used in this manual are in accordance with the SI system. In some cases, however, other units are added in brackets. An exception to the above is the wind force, which is expressed in the Beaufort scale in the Recreational Craft Directive (RCD). In this User Manual the right side of the hull is called/abbreviated STB and the left side is called Port.

The warnings and precautions in this manual are defined as follows:

DANGER !

Indicates a serious hazard that will most likely result in death or permanent injury unless appropriate precautionary measures are taken.

NOTE !

Indicates a reminder of safe practice or directs attention to a dangerous practice that could result in injury or damage to the boat or its components.

WARNING !

Indicates a hazard that could result in injury or death unless appropriate precautionary measures are taken.

3 WARRANTY

This boat and the equipment installed by the boat builder are covered by a warranty as specified in detail in the enclosed warranty clause. The engine, trim tabs, compass, any navigation devices and other retrofitted devices are subject to any warranty of their respective manufacturers. Separate warranty cards for these devices and appropriate supplier information are included as an attachment. For other warranty issues, please contact your XO dealer indicated on the front cover.

3.1 Before using your boat

3.1.1 Registration

In many countries, even a small motor boat must be registered. Contact the local authorities for the registration requirements in your country. To drive a registered boat, one must usually meet the requirements for minimum age and also possibly have a separate boat driver's license.

3.1.2 Insurance

Boat insurance can cover for damage when the boat is in use, transported or stored. Remember to check the insurance coverage separately for lifting operations.

Insurance also has an indirect effect on safety at sea: in the event of a serious accident, you can focus fully on the essential – saving lives above all else. More detailed information on various insurance alternatives is available from insurance companies.

3.1.3 Training

There is a lot of boating literature available, and a great deal of beneficial and practical information can also be gained from boating clubs and by attending navigation courses. These can provide a sound basis for your skills, but sureness in handling, navigating, mooring and anchoring the boat is only acquired through practice.

This User Manual is not intended to be a comprehensive maintenance guide or repair manual. Instead, the purpose is to help you familiarize yourself with the characteristics of your new boat and show you how to use it properly.

4.1 Principal boat data

Principal boat data includes the following:

Boat type: XO 360 RS

Design category: B

Maximum recommended load: 1860 kg

See also sections "Load capacity"

Category A:

This boat is designed for conditions in which the wind force can exceed 8 on the Beaufort scale and the significant wave height may exceed 4 m. (see NOTE! 1), and the boat is mostly independent. Extreme climate conditions are not taken into account. Such conditions can occur in long distances, for example when crossing an ocean, or in the proximity of a shore that is unprotected from wind and waves for a distance of hundreds of nautical miles

Category B:

This boat is designed for conditions in which the wind

force is no higher than 8 on the Beaufort scale and the waves are consistent with the wind force (the significant wave height 4 m at the most). Such conditions may occur in long distances at open sea, or in the proximity of a shore that is unprotected from wind and waves for a distance of dozens of nautical miles. Such conditions may also occur in freshwater in case of an area large enough for the forming of waves of this size.

Category C:

The boat is designed for conditions in which the wind force does not exceed 6 on the Beaufort scale (about 14 m/s) and waves are consistent with the wind force (the significant wave height must not exceed 2 m, with occasional waves of 4 m maximum). Such conditions can occur in open water on lakes, estuaries, and in coastal waters in moderate weather.

Category D:

The boat is designed for conditions in which the wind force does not exceed 4 on the Beaufort scale and waves are consistent with the wind force (the significant wave height must not exceed 0,5 m)

Such conditions can occur in freshwater and in coastal waters in decent weather.

4.2 Main dimensions and capacity

The length, beam, draught, total weight, etc., and fuel tank capacity of the boat are described in Appendix 1 'Technical specifications'.

4.2.1 Builder's plate

Maximum recommended number of persons

The maximum recommended number of persons on this boat is 10. The designated seating arrangement is shown in Figure 1. Part of the above information is indicated on the builder's plate attached to the boat in the vicinity of the helm station. More detailed information is given in the appropriate sections of this manual. Please note that, for example, the maximum load capacity indicated on the builder's plate does not include fuel, but the fuel is included in the maximum recommended load specified by the manufacturer.

WARNING !

Never exceed the maximum recommended load when loading your boat. Always load up the boat carefully and distribute the load properly so that the designed waterline is maintained (approximately on an even keel). Avoid placing heavy weight in a high position.

NOTE !

The significant wave height is the average height of the highest third of the waves. This roughly corresponds to an experienced observer's estimate of the wave height. Waves of double this height may occasionally be experienced.

WARNING !

Do not exceed the maximum recommended number of persons on board. Irrespective of the number of persons on board, the total weight of the persons and equipment must never exceed the maximum recommended load (see sections "Load capacity"). Always use the seats in the boat. If your boat is not equipped with seats for 10 people, the passenger must sit on the sole in the positions indicated in the figures 1.



4.2.2 Load capacity

The maximum number of persons board:		10
Total weight of all persons		750 kg
Personal luggage		76 kg
Fresh water		114 kg
Fuel		580 kg
Septic tank		72 kg
Other load of liquids		10 kg
Other load of equipment		126 kg
Life raft		32 kg
reservation for new installations		110 kg
Maximum load allowed	mL	1860 kg
Weight with maximum load	mLDC	8450 kg
Weight of the boat without load	mLC	6590 kg

The unladen weight of the boat includes the engine. The quantity of fluid in the tank reduces the load the boat can carry.

4.2.3 Engine and propeller

The maximum rated engine power is 2 x 270 kW (740 hp). When starting the engine, check that the cooling water flows properly and make sure that the gear is in the neutral position. If the engine starts when the gear is not in neutral, contact your nearest service centre.

4.3 Draining systems

In addition to rainwater, the drain holes are intended to drain water ending up on the deck through splashing or from breaking waves. The drain holes must be open at all times and the holes regularly cleaned by removing any accumulated debris to prevent clogging.

The system is built so as to drain the water from the deck in normal use. Do not close the taps when using the boat or when the boat is attached to the dock.

WARNING !

Do not close the drain holes when using the boat.

NOTE !

The self-emptying open space is meant for the removal of such water that ends up on the deck through rain, splashing or from breaking waves. A part of the rain water as well as water condensation in the bilge may end up in the bilge.

Do not leave the boat unattended in the water for a long time. Observe the floating position of the boat and empty the bilge when necessary. Leaving the boat unattended in the water for a long time may cause damage.

4.4 Bilge pumps and drainage

The boat is equipped with three bilge pumps. The aft of the boat has one electric and one hand-operated bilge pump, and the fore of the boat has one electric bilge pump.

The location of draining devices is shown in Figure . The bilge pumps are positioned as close to the bottom plate as is practically possible. Despite this, it is completely normal that a small amount of water remains in them bilge so that it cannot be discharged by the bilge pump.

The electric bilge pump (1) in the aft of the boat is positioned in the fore part of the engine compartment in the middle of the boat

The fore bilge pump (2) is positioned in the technical space and can be accessed by opening the service hatch under the helmsman's position. The electric bilge pumps are equipped with a float which triggers them automatically if there is water in the bilge space. The electric pumps have direct supply switches, which allow the pump to come on even if the power is switched off in the boat. The pumps can also be used manually via the switches (3) on the switchboard.

The boat's bilge pumps are equipped with an indicator light that notifies the helmsman if any water has

accumulated in the bilge. The light is connected to the bilge pump, which ensures that it comes on when the pump switches itself on.

The indicator light is positioned in the steering console's switchboard.

The manual bilge pump (4) is meant to be used in case the electric bilge pump is out of use. The pump can be

operated by opening the lid and attaching the separate handle located next to the pump to the bilge pump.

Regularly check all bilge pump inlet and remove any debris.

NOTE !

Regularly check the operation of the bilge pump. If you notice that the bilge pump does not operate properly, remove any debris from the pump inlet and contact your XO dealer if necessary

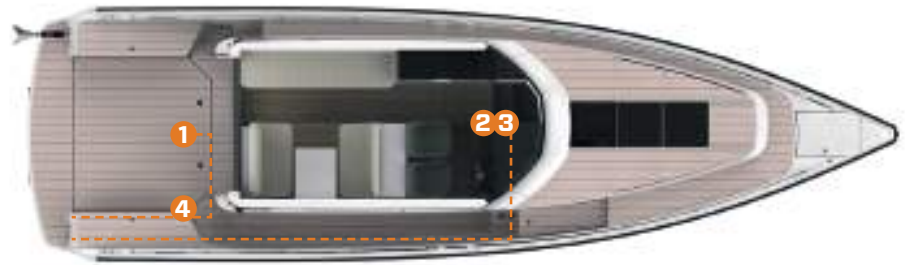
NOTE !

Check the amount of bilge water by emptying the bilge manually with the spring-loaded switch located on the switch panel every time before use. It is recommended to have at least one bucket or bailer on board



WARNING !

The bilge pump system is not designed to deal with a leak resulting from running aground or other damage. Do not close the drain holes when using the boat.



Model: Ultima Bilge 1000
Efficiency: 64 l/min
Function: Automatically and manual



Brand: Whale
Model: Urchin PB 9013 25-38
Efficiency: 45 l/min
(Depending on pumping speed)
Function: Manual



4.5 Stability and buoyancy

The stability of your XO boat is excellent due to its hull design and weight distribution. However, remember that high breaking waves always represent a serious danger to stability. Also note that the stability of your boat will be compromised if any weight is placed in a high position. Any changes in the positioning of different weights in the boat can have a significant impact on the stability, trim and performance of your boat. If you are planning such changes, please contact the boat manufacturer. The amount of bilge water should be kept at a minimum because freely moving water in the boat always impairs the boat's stability. Also note that stability can be diminished when towing or being towed.

4.6 Hatches and sea-cocks

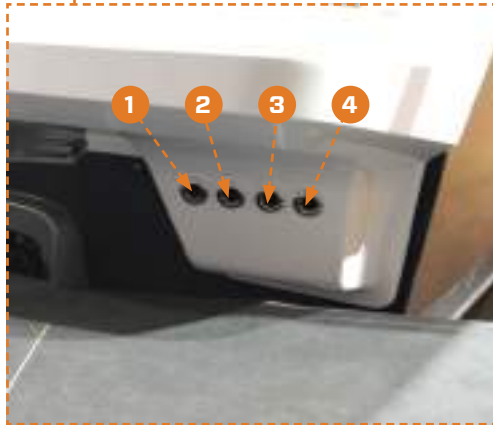
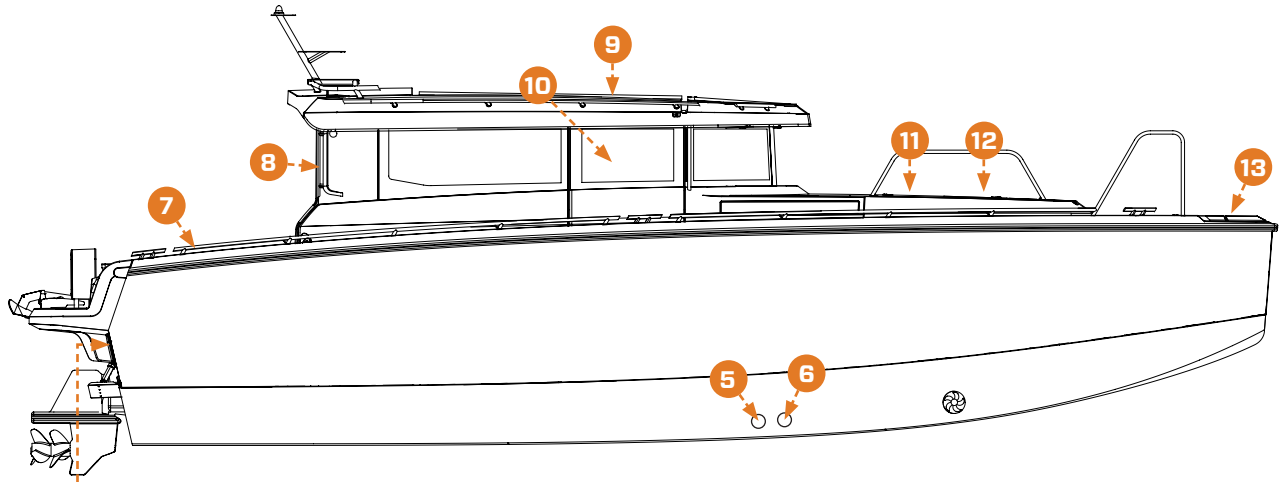
There are several inlets through the boat that include taps for opening and closing the inlets. It is recommended to keep these closed if the boat is out of use for a long time, and to open them again when the boat is used again. The taps of the draining systems in the aft and fore decks must be open when the boat is in the water.

It's recommended to keep the windows, doors, deck hatches and vents shut while driving. However, on occasion and depending on the weather they can be kept open. In stormy weather, always keep deck hatches, storage room doors and openings closed to minimize the risk of water getting into the boat.

In certain conditions and speeds it is possible that water is sprayed inside through canopies, hatches or other openings, due to negative pressure or other effects. This can be prevented by closing the canopies, hatches or other openings.

The taps and hatches presented in the following picture must be kept shut when under way.





- | | |
|--|--------------------------|
| 1. Manual bilge pump draining | 10. Side door |
| 2. Automatically pilge pump draining | 11. Foredeck hatch |
| 3. Front automatically pilge pump draining | 12. Foredeck hatch |
| 4. Draining of shower pump | 13. Boq anchor box hatch |
| 5. Water inlet of toilet seat | |
| 6. Septic tank seacock | |
| 7. Engine hatch | |
| 8. Aft door | |
| 9. Roof hatches | |

5.1 Minimizing risk of fire and explosion

If there is a fire in your craft, it usually starts with an explosion. Most common fire sources are the engine and the stove. Fire spreads usually very fast, so extinguishing the fire must proceed quickly. Fire should be put down by extinguishing, i.e. stopped the oxygen. Use the fire extinguisher in your craft. The exact location can be found from the General safety diagram. Using water in fuel-based fires does not help.

If the fire starts to get out of control, leave the burning craft to save lives, because if the fire reaches fuel containers, it may cause an explosion and cause even a large area around the boat to burn. Switch the power off when leaving your boat.

Keep the bilge always clean; check it periodically for fuel fumes and oil leakages. Do not drape any curtains or other flammable material near a stove or heater.

It is recommended that the owner / user of the boat takes care of that there is easy access to a fire bucket with a line attached to it in the boat. Make sure that the

fire extinguishing equipment is easily accessible also when the boat is loaded.

Inform all members of the crew are aware of the location and operation of the fire extinguishing equipment. Keep the bilge clear of fuel and check the fuel system for leaks regularly. The smell of fuel is a definite sign of leaking fuel. In case your boat is equipped with a heater, please refer to the heater manufacturer's instructions for its safety instructions.

NOTE !

Also, never

- make changes to your boat's electrical or fuel system, or allow an unqualified person to make changes to any system on the boat
- fill the fuel tank or handle fuel when the engine is running smoke or use a naked flame when handling fuel
- keep fuel in a space that is not designed for such purpose. If the boat is not equipped with a heater, a spare fuel tank can be stored in place of the heater's tank.
- leave the boat unattended when a cooker or heater is in use.

5.1.1 Fire extinguisher

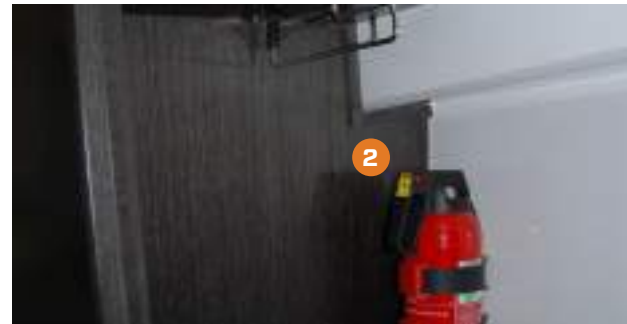
The boat is equipped with a hand extinguisher (2) and an automatic extinguisher (1) in the engine compartment. The hand extinguisher is located in the portside locker and the position of the extinguishers is marked with a sticker. The automatic extinguisher in the engine compartment starts automatically if it detects a fire there. You can check whether the extinguisher is in working order by looking at the indicator light on the steering console. For more information, read the manual for the extinguisher.

Whenever the boat is used, it must be equipped with fire extinguishers with a minimum fire rating of 8A 68B. The minimum fire rating for an individual fire extinguisher is 5A 34B. You must have the hand-held fire extinguishers

inspected regularly at specified intervals, depending on the legislation in your country.

Contact the local fire authorities for the inspection policy in your country. If you are unsure of the inspection policy in your country, have your hand-held fire extinguishers inspected once a year.

The manufacturing date of a hand-held fire extinguisher is indicated on a label attached to the fire extinguisher. Fire extinguishers that are more than ten years old will not be approved unless the pressure vessel is pressure tested again. When replacing a hand-held fire extinguisher, it must be replaced with an extinguisher with an extinguishing capacity that is at least the same as the old one.



5.2 Life raft storage

Your craft is not equipped with life raft by the manufacturer. If you decide to get one for your craft, we recommend that you stow it to the aft of the craft, so that it is easily accessible in case of emergency.

5.2.1 Use of life raft

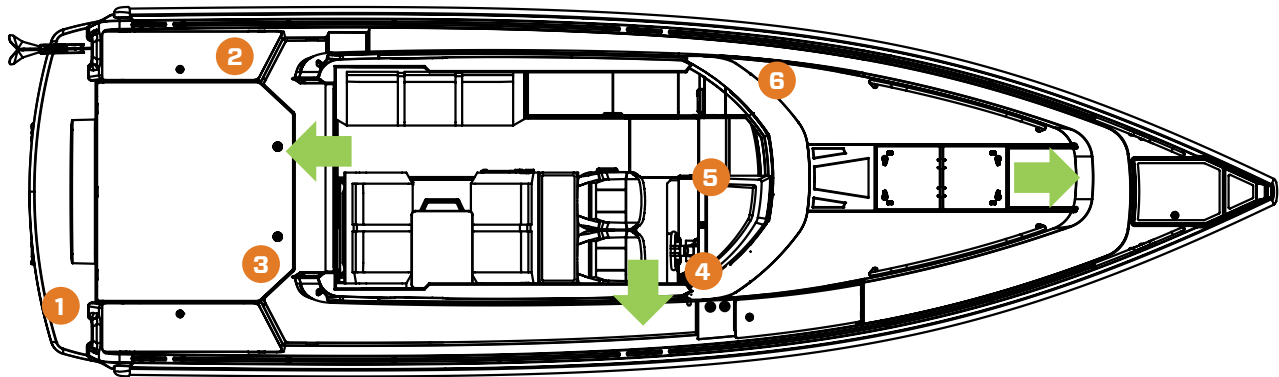
In case of an emergency, the life raft should be tied to the stern of the craft and prepared for use. When the life raft is ready and tied to the stern, loading the raft can be done via the swimming deck. Also in an emergency, the life raft is easiest and safest to board from the swimming deck. Switch off the engine when using the life raft. Follow also the life raft manufacturer's instructions.

5.3 General safety diagram

1. Swim ladders
2. Storage place of liferaft
3. Moottoritilan sammutin
4. Main switches

5. Switch panel
6. Fire extinguisher

← Emergency exit



6.1 12 V DC Systems

Your craft is equipped with the 12V electrical direct current (DC) system. The 12-Volt DC-electrical system consist of engines chargers, shore power chargers, batteries and equipment.

The power supply happens from charger or alternator via diodes for batteries. Most equipment of the craft uses the 12 V system. 12V equipment is working only when a main switch and a switch in the Main switch panel is switched on. Damaged equipment must be maintained before taking back to use.

The boat's wiring diagram is shown in Appendix 3. The main switch is located on the starboard side, behind the helm station. When the circuit is closed, the various devices can be operated with the switch panel at the helm station.

WARNING !

Never do any reparations to the electric circuits when they are connected.

WARNING !

Never use the hull for earthing. Both the negative and positive sides of all electrical installations must be insulated from the hull.

WARNING !

Never leave the craft unattended with the electrical system energized, except direct supply switches.

WARNING !

Do not alter the electrical system of the boat or any related diagrams; all changes and maintenance must be taken care of by a professional qualified technician specialized in marine electrical systems.

NOTE !

Use the AUX circuit if you are installing optional equipment to the boat. Connect the device to both power supply as well as the negative wire. Never use the hull for earthing.

When leaving the boat for a longer time, turn off the main switch. Detach the battery from the system when doing electrical installation. When detaching or attaching batteries, be careful not to touch the aluminum parts of the boat or both poles of the battery simultaneously with a metal tool.

Charge the batteries only with either the engine, shore power charger* or a battery charger. Charging with too big current may cause danger of explosion. Make sure the battery space is adequately ventilated. The hydrogen that is released while charging the battery may explode if the ventilation is prevented.

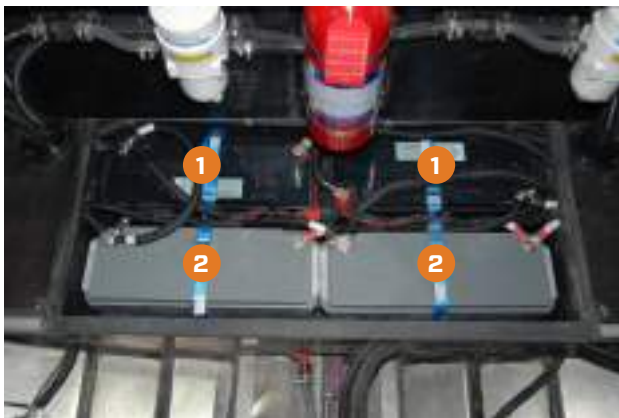
6.2 Batteries

As standard equipment your craft is equipped with four batteries: Two start battery (1) and two Service batteries (2). Bow thruster have own battery. The recommended battery capacity in the boat is 2 x 100 Ah.

The boat's electric system is built in such a way that the batteries are positioned in the fore part of the engine compartment. Remove the batteries from the boat for the duration of winter storage. When removing the batteries, detach the negative (-) terminal first. The batteries can be recharged in three ways: by using the engine, shore power or the generator.

The primary battery charger in the boat is the shore power charger, which functions when the boat is connected to the shore power system. The secondary chargers are the boat's engines, which recharge batteries when the boat is not connected to shore power. As an optional extra, the boat may also be equipped with a generator which also recharges the boat's batteries when running.

The recharging sequence of the batteries is prioritised in such a way that the engine batteries are charged first and then the service batteries.



WARNING !

When removing, connecting or loading batteries make sure there are no flammable liquids or materials nearby.

WARNING !

Never switch off the current when the engine is running, because this may cause damage to the alternator.

6.3 Main switches

Main switches control the different power circuits in the craft. Current feed to devices, such as from the engine batteries to the engine, can be connected using switches. The boat's main switch panel is located on the right side of the forward end of the engine compartment. The remote control switches of the main switches are located on the steering console's fuse panel. The boat's electronic circuits can be opened and closed by the switches in both the engine compartment and on the steering console.

When the power circuit is connected on, the switch background colour is green and marking ON visible and when the circuit is connected off, the switch background colour is red and marking OFF visible.

Power supply to the engine is enabled by turning the switch START 1 and 2 (C and D) to the ON position. Power supply to the boat's devices is enabled by turning the switch Service (B) to the ON position.

When leaving the craft for a longer period of time, please switch off the power from the main switches but, if needed, leave direct supply switched on.

6.3.1 Main switches of the engine compartment

The main switch panel of the engine compartment has switches for different electronic circuits and a dead man's switch, which can be used to switch off all the electricity on the boat. The panel also has direct supply switches for critical electronic circuits.

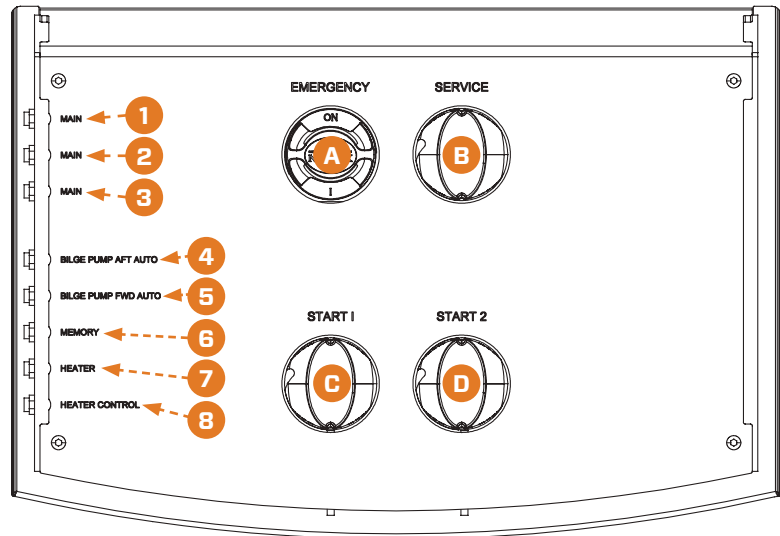
A Dead man's switch

B Service battery main switch

C Start 1 battery main switch

D Start 2 battery main switch

1. Main fuse
2. Main fuse
3. Main fuse
4. Aft bilge pump fuse
5. Fore bilge pump fuse
6. The fuse of the radio memory
7. Heater fuse
8. The fuse of the heater panel



6.4 Fuses

The fuses for the electronic circuits are positioned on the switch and fuse panel in the helmsman's footwell. See the position of the fuses in the section on the main switch panel. XOboats utilise trip switches that spring up to the "off" position when an overload occurs and that can be switched back on after the overload by pressing the button that has sprung up back down again.

The electrical system has additional electronic circuits (Aux 1-3) equipped with a fuse, and retrofitted optional extras can be connected to these. The conductors for the electronic circuit can be found on the switch panel. Do not change fuses for higher currents and do not install components in the electrical system which cause the electronic circuit's nominal amperage to be exceeded.

6.5 Direct supply switches

Some of the boat's devices are supplied with direct supply switches. Switches are located either on the switch panel of the engine compartment or on the lower part of the steering console's switch panel. Direct supply switches are intended for such equipment that

need current when main switches are turned off. Some of the switches are positioned in the steering console's fuse panel and others in the main switch panel of the engine compartment.

WARNING !

Before connecting an electric circuit make sure that the circuit is not damaged and that there will be no short circuit or a fire caused by possible damages in the electric circuit. Any damaged equipment must be maintained or changed before they are again taken into use.

The switches (31-33) are equipped with an automatic fuse and power switch features. The fuses 4-8 are not equipped with a power switch feature. Switches 31-33 can be turned off, if the devices that get their power from through those switches are not in operation. All other fuses are meant for devices that constantly need power, so they are not allowed to be switched off.

WARNING !

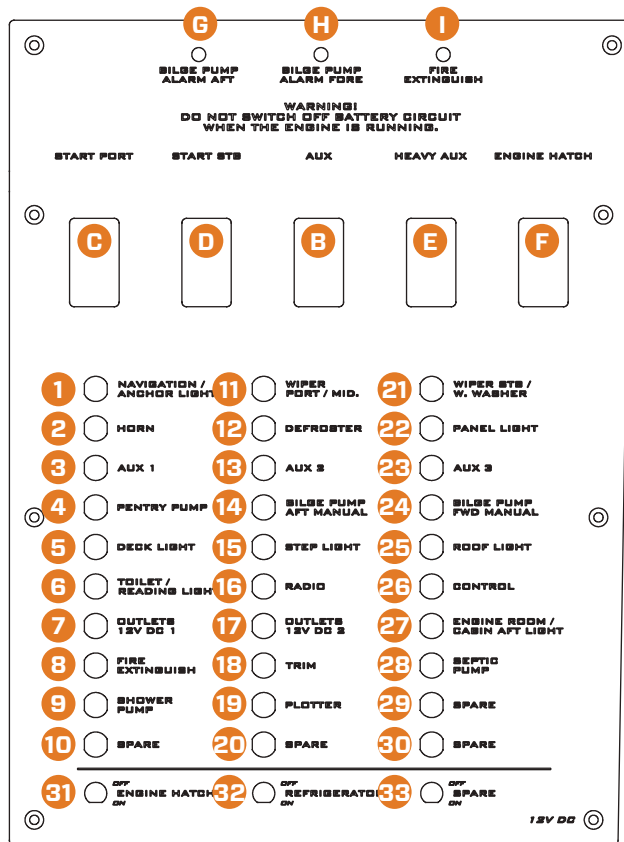
Turning the direct supply switch off too early may cause the device (e.g. heater) to break or catch fire, because the devices have a ventilation feature that works even if the device is otherwise switched off. Make sure the device is cooled down before turning it off completely. For more information, see the manual of the device in question.

6.5.1 Steering console switch and fuse panel

A switch and fuse panel are positioned in the lower part of the steering console in the helmsman's footwell. The panel has remote control switches for the main switches. The panel contains indicator lights for the bilge pumps and the engine compartment extinguisher. The panel also contains the majority of the boat's fuses and some of its direct supply switches.

The panel includes the following switches and indicator lights:

- B. Switch for service battery
- C. Switch for Start 1 battery
- D. Switch for Start 2 battery
- E. Switch for bow thruster and anchor windlasses
- F. Opening switch for engine hatch
- G. Indicator light for aft bilge pump
- H. Indicator light for fore bilge pump
- I. Indicator light for engine compartment extinguisher



○ The panel contains the following fuses:

1. Navigation and anchor lights
2. Horn
3. Aux 1
- 4. Fresh water pump
5. Deck light
6. Toilet and reading light
7. 12V DC outlet 1
8. Engine compartment extinguisher
9. Shower pump
10. Extra
11. Wiper Port and middle
12. Defroster
13. Aux 2
14. Manual operation of aft bilge pump
15. Step light
16. Radio
17. 12V DC outlet 2
18. Trim tabs
19. Chart plotters
20. Extra
- 21. Wiper STB and windscreen washer
22. Steering console light
23. Aux 3
- 24. Manual operation of fore bilge pump

25. Roof light

26. Stereo

27. Engine compartment and aft cabin lights

28. Septic pump

29. Spare

30. Spare

The following direct supply switches:

31. Engine hatch

32. Refrigerator

33. Spare

6.6 Shore power

The boat is equipped with a shore power system which obtains its power from an external supply on shore or jetty (shore power). This system utilises a voltage of 230 V and therefore ordinary mains current devices can be plugged into the boat's sockets. Devices that use shore power can be used when the shore power cable has been connected to the shore power socket (1) which is located in the portside bay in the open space and in the boat's bow box (8) on the port side. The boat is equipped with a separate charging cable which can be found inside the boat.

The main fuse for shore power (2) is located in the portside fore corner of the engine compartment. Check once a month that the fuse is functional. The distribution board for shore power (3) is located next to the main fuse. The system is equipped with an inverter (4), which feeds 230 V through the sockets even if shore power is not connected, and shore power chargers, which charge batteries (5), and fuse panels for sockets (6). There is a separate charger for the bow thruster battery located next to the battery.

The position of the components is given in the picture on the next page.

1. Shore power plug
2. Main fuse
3. Shore power distribution board
4. Inverter
5. Battery chargers
6. Fuse panel
7. Shore power plug

WARNING !

To avoid electric shock and fire hazard:

- Switch off the shore power switch before connecting and disconnecting the cable.
- Connect the shore power cable to the boat before connecting it ashore.
- Disconnect the shore power cable ashore before disconnecting it from the boat.
- Close the hatch to the shore power socket on the boat.



6.7 Heavy duty fuses

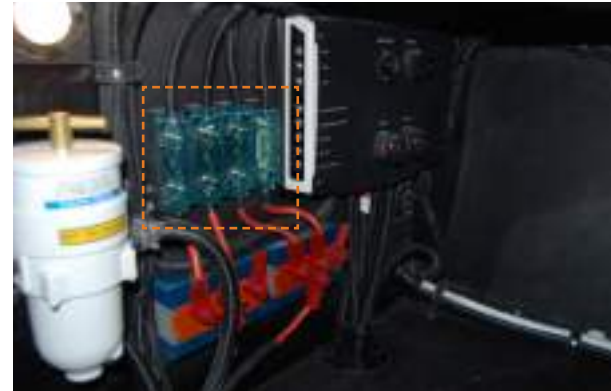
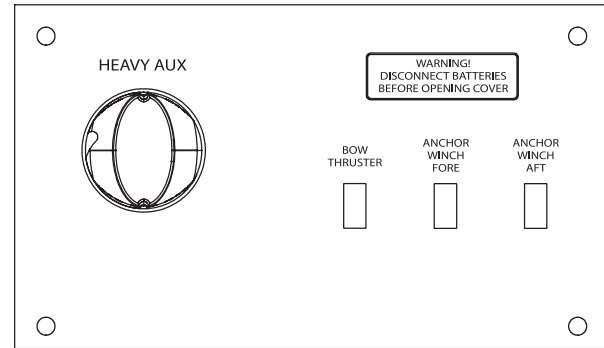
Under the berth in the fore cabin next to the bow thruster (see picture below) and at the front edge of the engine compartment there are fuse panels which contain fuses for devices that require high current.

The panel next to the bow thruster contains fuses for the bow thruster and anchor windlasses. The engine compartment holds fuses for the engine chargers. The functioning of fuses can be checked from the holes in the fuse covers. If the metal strip visible in the hole is unbroken, the fuse is operational.

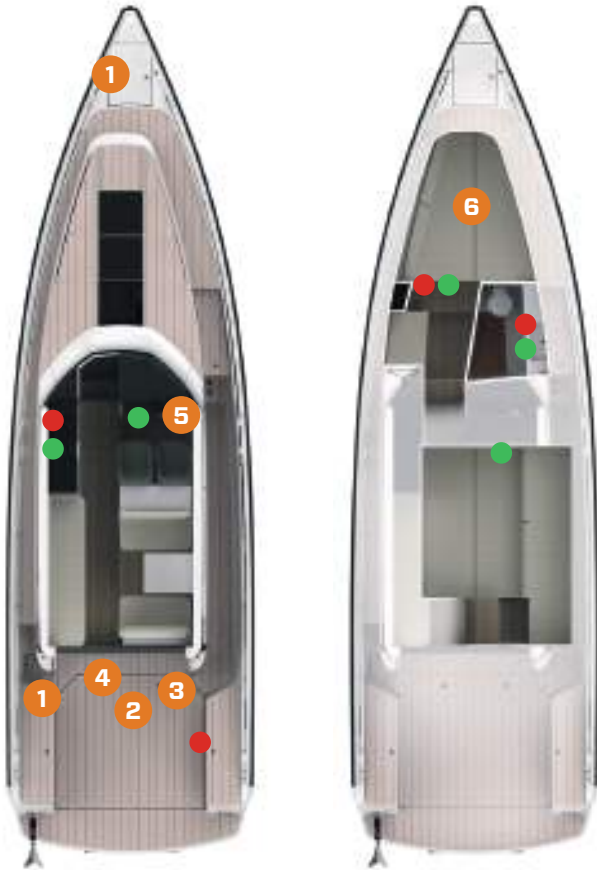
If the metal strip is damaged, meaning that an overload has occurred, contact a qualified nautical electrician. Opening the cover is not recommended, as there is a danger of electric shock and serious injury.

WARNING !

Sulakkeiden vaihtamista ei suositella, koska voituneesta virtapiiristä on mahdollisuus saada sähköisku. Mikäli vaihdat kuitenkin sulakkeet irrota veneen akkujen navat ennen sulakkeiden vaihtamista.



6.8 Components of the electrical system



1. Shore power plug
 2. Batteries
 3. Main switch and high-current fuses
 4. Shore power distribution board
 5. Main switch panel
 6. Bow thruster battery and high-current fuse panel
- 230 V socket
● 12V DC outlet 1

7 BOAT HANDLING

7.1 Handling characteristics

7.1.1 Driving at high speed

Do not use the boat if it has an engine with a higher power rating than that indicated on the builder's plate.

Use the engine's electro-hydraulic power trim feature as follows:

When you are lifting the boat to plane, adjust the trim to the 'bow down' position. Once the boat is on plane and if the waves are small, lift the bow until the boat starts to porpoise, the propeller loses grip or the engine reaches the upper limit of its normal adjustment range. Then lower the bow from this position slightly so that the ride feels stable. You can use the speed log to optimise the trim.

When running into a head sea, lower the bow to make the run smoother. In a following sea and a very high head sea, lift the bow slightly to prevent it from diving in. Do not drive the boat at high speed when the trim is negative, i.e. when the bow is low, because the boat can heel and become unstable to steer. To adjust the trim, also refer to the engine manufacturer's instructions.

WARNING !

Handling is impaired at speeds exceeding 40 knots. Rapid turns can lead to loss of control. Slow down before sharp turns in either direction. Avoid rapid movements while driving at high speed. Do not drive at full speed if traffic on the waterway is high or visibility is restricted.

WARNING !

If you drive at high speed, adjust the trim carefully as it will radically change the behavior of the boat. Do not drive with the bow too low because the boat can suddenly turn. Do not drive the boat at high speed when the trim is negative (bow low). The boat can heel or become unstable in turns.

WARNING !

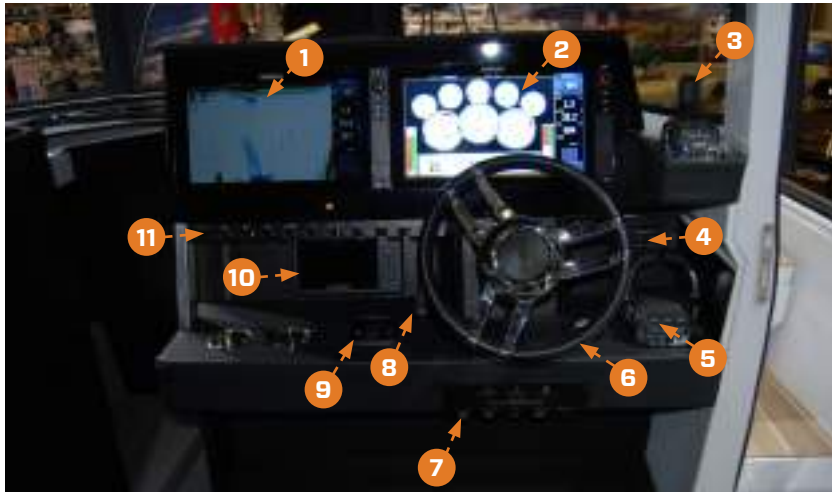
Waves impair the handling of the boat and can cause it to heel. Take this into account and reduce speed when waves become higher.

7.2 Handling devices

The boat's handling devices are located optimally for the helmsman so that they are easy to use. The amount and positioning of the steering console devices may vary according to the boat's standard of equipment and engine. More information on the boat's devices is given in other sections of this manual and the device manuals.

The steering console includes the following devices:

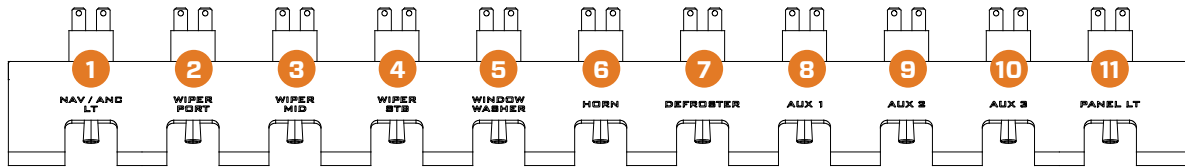
1. Simrad display
2. Simrad display
3. Engine joystick
4. Engine start-up panel
5. Remote handling for engines
6. Searchlight
7. Switch and fuse panel
8. Bow thruster operating lever
9. Operating panel for trim tabs
10. Volvo display
11. Switch panel



7.2.1 Steering console's switch panel

The steering console includes switches for devices that may be needed while driving. A marine heater will help to reduce the steaming up of windows. For more information, read the manual for the device.

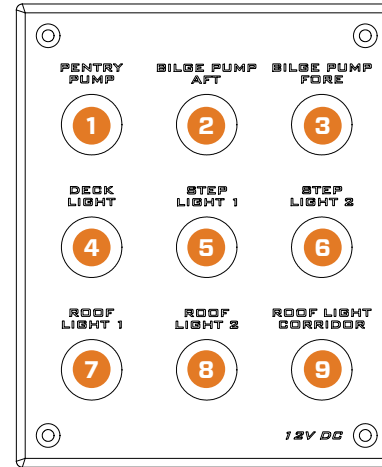
1. Navigation and anchor light
2. Port wiper
3. Middle wiper
4. STB wiper
5. Windscreen washer
6. Horn
7. Switch for marine heater
8. Aux 1
9. Aux 2
10. Aux 3
11. Steering console lights



7.2.2 Switch panel in the corridor

The switches for lights and pumps are positioned on the switch panel in the corridor.

1. Fresh water pump
2. Bilge pump aft
3. Bilge pump fore
4. Deck light
5. Step light 1
6. Step light 2
7. Roof light 1
8. Roof light 2
9. Roof light corridor



7.2.3 Windscreen wipers

The boat's windscreen wipers are controlled by the switches on the boat's steering console. When pushed forward, the wipers wipe only once, and when pulled back, they wipe continuously. A switch for the windscreen washer is installed next to the switch for the windscreen wipers. The container for the windscreen wash liquid is located in the boat's technical space.



7.2.4 Navigation

Learn and obey the rules of navigation on waterways, and also familiarize yourself with the rules known as COLREGs (International Regulations for Preventing Collisions at Sea) that you must follow at all times. According to the rules, every vessel must maintain a proper look-out and obey the giveaway provisions at all times.

Navigate carefully and use new or updated nautical charts. Always adjust your speed in relation to the prevailing conditions and environment.

There must always be a compass in the boat, as well as an up-to-date chart, even if the boat is navigated with a GPS chart plotter for example. GPS supports navigation, but it should not be used as primary means of navigation. The commander of the boat should always master basic navigation skills at least.

Pay attention to the following:

- Waves (also consult your passengers on their opinion of a comfortable speed)
- Your own wake (highest when rising to plane and lowest at displacement speed, i.e. below 10 knots).
- Always observe no wake zones. Slow down to reduce

your wake to be courteous and also for the safety of yourself and others in the area.

- Visibility (islands, fog, rain, blinding sun)
- Knowledge of the route (time required for navigation)
- Narrowness of the route (other traffic, noise and impact of wakes on shore)
- Space required for stopping and taking evasive action.

7.2.5 Visibility from the steering position

Driving in beautiful and calm weather is easy once you ensure proper visibility which also complies with the rules of COLREG. Always ensure that visibility from the steering position is as good as possible:

- Position the passengers so that they do not impair the helmsman's visibility
- Do not drive continuously at planning threshold speed at which high bow rise impairs visibility
- Adjust the engine power trim and possible trim tabs to set the boat position so that the rising bow does not impair visibility
- Remember to keep a good lookout astern as well, especially on fairways in case of approaching ships.
- Use appropriate navigation lights after dark and in limited visibility (fog, heavy rain).

7.3 Safe operation - other recommendations and instructions

7.3.1 Protection from falling overboard and means of reboarding

The boat's working decks are areas where people can move about when the boat is being manoeuvred. These decks are marked in orange in the picture below. Do not sit, stand or spend time in other parts of the boat while the boat is under way. Moving about on the after-deck while the boat is under way is not recommended. When moving about the foredeck, always wear a safety harness and attach it to the points in the railing designed for this purpose.

Before you get underway, make sure that the aft rails are in the locked position. If someone falls overboard, the

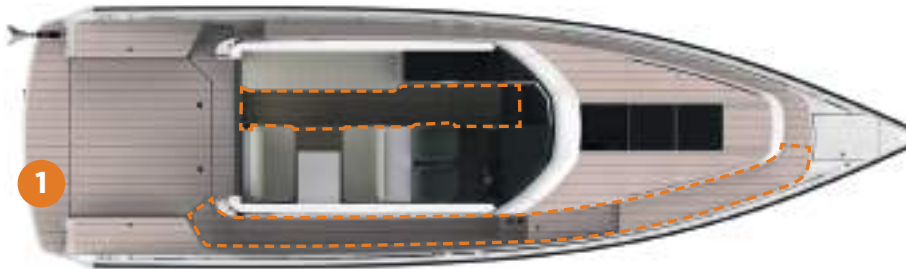
easiest way to reboard is via the bathing/rescue ladder on the stern. A person in the water can also deploy the ladder (1). Keep the gates at the open space closed while driving.

Securing loose equipment

Secure all heavy equipment (for example, anchors) before getting underway. Pay attention to lightweight items as well because they can be easily taken away by wind. Keep all hatches closed when underway. Do not let loose equipment block the drain holes.

DANGER !

A rotating propeller can be lethal for a swimmer or person who has fallen overboard. Use the dead man's switch and shut down the engine when a swimmer or water skier climbs on board.



7.4 Anchoring, mooring and towing

Always moor your boat carefully, even in sheltered places, because conditions can change rapidly. The mooring lines should be equipped with appropriate absorbers to dampen shocks. For the location of fastening points, see Figure .

Do not use other boat components for fastening, towing or anchor-ing. Use sufficiently large fenders to protect the boat from chafing. The eye on the stem is only designed for docking on a slipway or for fastening the boat to a trailer. It is not to be subjected to lateral forces present when, for example, the boat is secured to a dock.

The owner/user of the boat is responsible for ensuring that the mooring, towing and anchoring lines, as well as the anchors and anchor chains are appropriate for the intended use of the boat, and that the tensile strength of the lines and chains does not exceed 80%

of that of the corresponding fastening points. However, wear and tear of the lines and knots weakening the lines must be taken into account. If you tow the boat, note that the strength ratings for the front cleats differ from those of the aft and centre cleats.

If you are going to beach the boat at an excursion harbour or similar natural harbour, make sure that the depth of the water is sufficient and **DROP YOUR ANCHOR AT A SUFFICIENT DISTANCE FROM THE SHORE**. A fair holding power is achieved if you pay out anchor rode so that its length is 4 to 5 times the depth of the water at the point where you dropped the anchor. The grip is increased the more anchor rode you deploy. The anchor holding power is also significantly increased if the first 3 to 5 metres of the anchor rode is weighted line or chain.

When you moor your boat, bear in mind the wind-direction changes, rise and fall of water level, wakes, etc. Additional instructions can be provided by your insurance company, for example. If you tow another boat or if your boat is being towed, always drive slowly and use a floating tow line that is sufficiently strong.

WARNING !

Do not try to stop the boat with your hands and do not put your hand or foot between the boat and the quay, shore or another boat. Practise going ashore in good conditions and use engine power in moderation but purposefully.

NOTE !

The tensile strength of the lines or chains should normally not exceed the strength of the fastening point in question.

The hawser must always be tied in such a way that it can be untied when the boat is loaded.

When towing or being towed, always go slowly. If your boat is a displacement craft never exceed hull speed when towing.

The boat's midship cleats are only intended for tying the boat from the jetty and never from the boat, because reaching for the midship cleats may cause you to fall overboard.

Start towing carefully, avoid sudden jerks and do not overload the engine. Make sure that the tow line cannot get caught in the propeller. If the boat you are towing is of the displacement hull type, never exceed its hull speed. If you tow a small dinghy, adjust the length of the tow line so that the dinghy rides downhill on your wake. However, you should pull the dinghy close to the transom in narrow passages and on high waves to minimize wiggling. Carefully secure all equipment in the dinghy in case it capsizes. Cover the dinghy if you tow it on waves in open

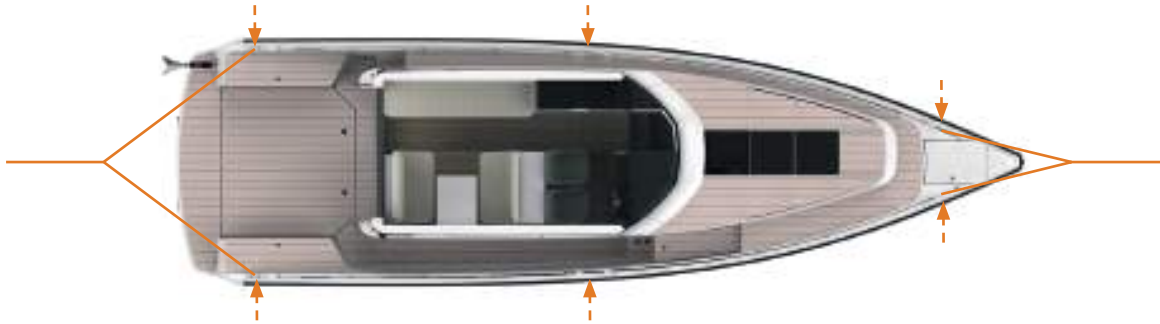
water to prevent it from being filled by splashing water. If you tow another boat or if your boat is being towed, attach the tow line to the fastening points shown in Figure. Attach the tow line so that it can be detached under load.

The tensile strength of the lines or chains should normally not exceed the tensile strength of the fastening point in question.

Always attach the tow line so that it can be detached under load. The strength rating for the front cleat in towing and anchoring is 40 kN. For mooring purposes, the forward force rating for the front and centre cleats is 33 kN, and the rearward force rating for the aft cleat is 28 kN.

WARNING !

The hawser is under great tension. If it breaks, the snapped end may move at a life-threatening speed. Always use a line that is sufficiently thick and never stand, sit or spend time in the line's travel area.



7.5 Trailing

Before lifting your XO boat onto the trailer, make sure that the trailer is suitable for your boat: that there are a sufficient number of supports to distribute the weight properly without excessive point loads, and the capacity and dimensions of the trailer are sufficient to carry the boat and its engine, equipment, battery, boating accessories and fuel on board.

Carefully familiarize yourself with the national road traffic regulations on towing a trailer and associated license requirements. Also check that the towing capacity of your vehicle is sufficient for the intended combination. Before loading the boat on the trailer, remove any unnecessary weight from the boat and drain the bilge

water. Adjust the side supports of the trailer so that the most weight of the boat rests on the keel supports and the side supports only offer lateral support.

Use only the eye on the stern to load the boat on the trailer because the other fastening points are not strong enough to withstand the weight of the boat in loading operations. Fasten the boat securely to the trailer before trailering on the road. Protect the boat by placing suitable padding between the tie-down straps and the boat if necessary. Refer to the engine manual for any instructions on trailering.

In addition, pay attention to any equipment and accessories in the boat during trailering. Make sure you



secure all loose items in the boat. Do not use a hood, canopy, tonneau cover or other similar top or cover on the boat during trailering. These hoods and covers can become detached at high speeds and damage the boat and cause a danger to traffic.



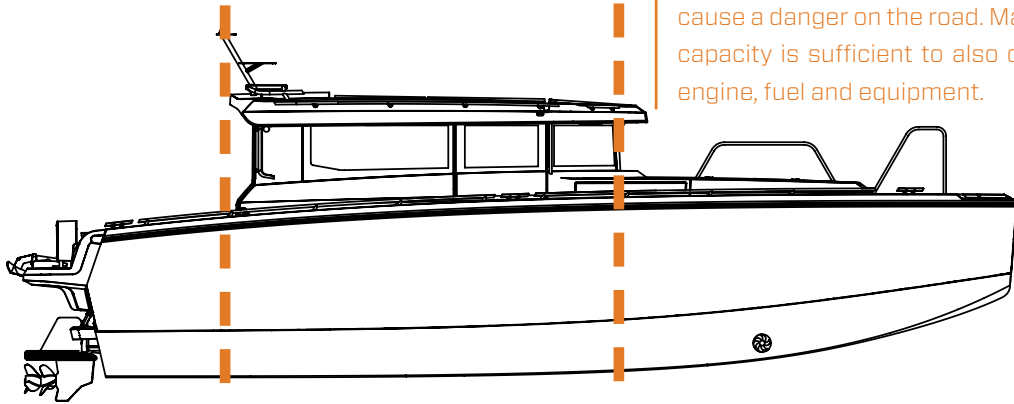
Moreover, a hood or other cover flapping in the wind during trailering can damage the boat surface. Keep the hood in its dedicated storage compartment during trailering, or remove the hood completely if necessary. Also make sure that the boat door is properly closed before trailering.

NOTE !

The trailer must be a little nose heavy. Make sure that the boat is securely fastened to the trailer, that it cannot move into any direction, and that the side supports provide an even support for the weight of the boat. The hull of the boat can be damaged if the boat swings against a single support during transport.

WARNING !

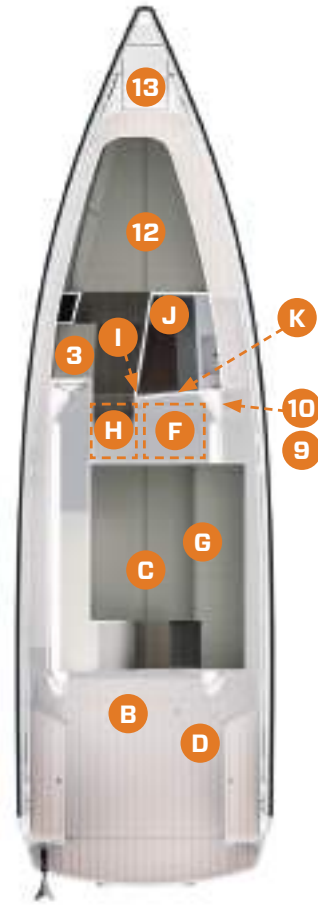
A boat trailer that does not have sufficient capacity or that is poorly maintained can become damaged and cause a danger on the road. Make sure that the trailer capacity is sufficient to also carry the weight of the engine, fuel and equipment.



8 THE BOAT'S DEVICES AND TECHNICAL SYSTEMS

The pictures below present the position of the boat's most important equipment and the components of its technical systems. The amount and position of the components may vary according to the boat's equipment level.

1. Deck light
 2. Satellite antenna
 3. Floodlight
 4. Aft anchor windlass
 5. Stove/oven
 6. Refrigerator
 7. Steering console equipment
 8. Windscreen wipers
 9. Defroster
 10. Heater
 11. Radio and multimedia player
 12. Bow thruster
 13. Fore anchor windlass
- A. Inlet pipes for fuel
 - B. Fuel cocks
 - C. Fuel tank
 - D. Hot-water tank
 - E. Water inlet pipe and septic tank outlet pipe
 - F. Fresh water tank
 - G. Fresh water pump and hydraulic accumulator
 - H. Septic tank
 - I. Septic tank seacock and the toilet's water intake cock
 - J. Toilet
 - K. Shower drainage pump



8.1 Fuel system

The boat is equipped with a fixed fuel system which includes fuel inlet pipes, fuel tank, fuel filters and fuel cocks. The inlet pipes are positioned on both sides of the cockpit door. When refuelling, keep an eye on the fuel level in the fuel gauge to prevent it from overflowing. After refuelling, always check that no fuel has flowed into the bilge.

The fuel tank is located under the aft cabin. The tank's service hatch and hose outlets are positioned in the rear bulkhead of the aft cabin by the steps.

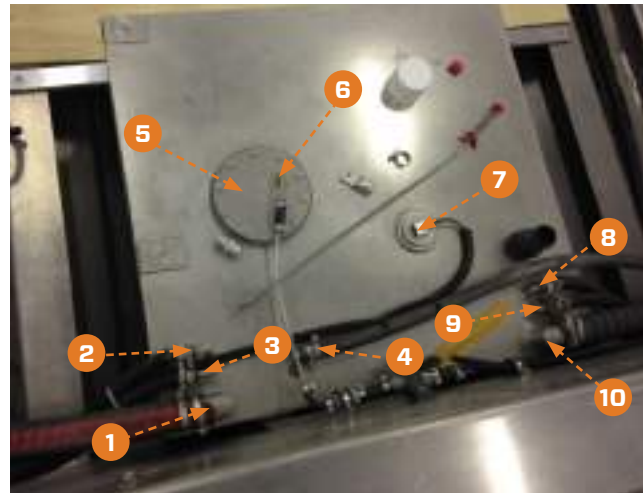
NOTE !

Never

- block access to safety devices, extinguishers, fuel valves or the main current switch of the electrical system.
- block any ventilation holes in the boat because these are intended for airing out any fuel vapour.

The fuel tank's hoses:

1. Portside filler hose
2. Port-engine inlet hose
3. Port-engine return hose
4. Ventilation hose
5. Tank's service hatch
6. Heater inlet hose
7. Fuel sensor
8. STB-engine inlet hose
9. STB-engine return hose
10. STB-side filler hose



○ The engine's fuel system is equipped with fuel cocks. When using the engines, always check that the cocks are open. Fuel filters and cocks are located in the forward part of the engine compartment.

○

Fuel filter and valves

- 11. Fuel valve for Port engine
- 12. Fuel filter for Port engine
- 13. Fuel valve for STB engine
- 14. Fuel filter for STB engine

8.1.1 Fuel system servicing and refuelling

Before refuelling, turn off the engines and put out any cigarettes and naked flames. Do not use any electrical devices. The fuel filling plugs are located on both sides of the boat's aft door. When refuelling at a service station, do not use a plastic funnel because it will prevent the discharge of the static stress between the nozzle and inlet pipe. Before refuelling a boat equipped with composite decking (Esthec or FlexiTeek), the deck must be flushed with water. This prevents any overflow fuel from being absorbed into the material; instead, it will remain on the surface of the water.

○

○

After filling the tank, check that no fuel has run into the bilge or engine compartment and clean any fuel spillage immediately. The condition of the fuel hoses can be checked visually through the service hatch.

Do not keep any spare canisters loose or in unventilated spaces, or any equipment containing fuel in spaces where they are not meant to be kept. The condition of



8.1.2 Fuel powered devices and ventilation

The exhaust gases of fuel-powered devices are extremely dangerous if exposure is long-term. Over-exposure to carbon monoxide can be lethal. Exhaust gases may enter the interior of the boat in, for example, the following circumstances:

1. The boat's engine is running but the boat stays in place.
2. Exhaust gas systems are blocked.
3. When driving at a high trim angle.
4. Hatches and covers are closed when the engine is running or other fuel-powered devices are in use.

When the boat's engine is running but the boat remains in place, always make sure that the cabin is sufficiently ventilated and keep ventilation ducts open. Never block ventilation ducts.

WARNING !

Never leave the boat unattended when the stove or heater is on.

Fuel-powered devices with an open flame consume oxygen and release combustion gasses into the cabin. When using such devices, make sure that the cabin is sufficiently well ventilated and keep ventilation ducts open. Never block ventilation ducts. Check regularly that the devices function as they should.

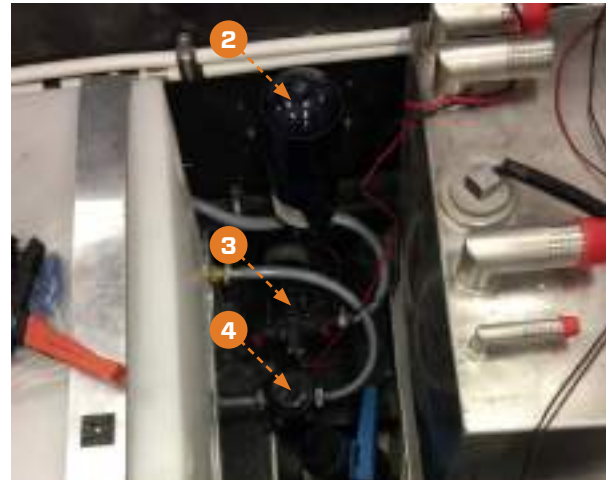
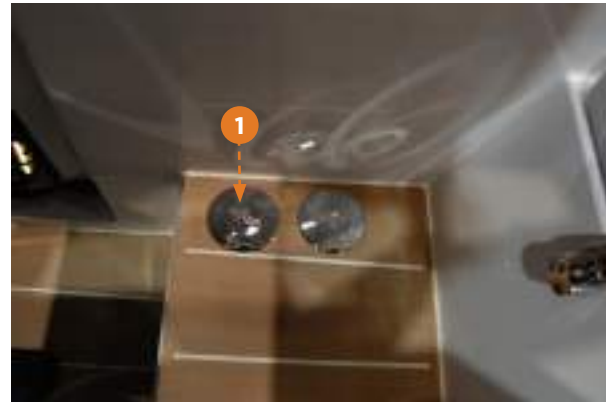
Heater and stove parts may become damaged if using the wrong type of fuel.

8.2 Water system

The boat is equipped with a pressure water system. The freshwater system consists of an inlet pipe for the water tank, a fresh water tank, filter, pump, hydraulic accumulator and hot-water tank, a water supply point for the galley and toilet and a shower.

The tank is located in the technical space under the helmsman's position. The filter, pump and hydraulic accumulator are positioned right next to the tank.

The fresh water tank is filled via the inlet pipe (1) located on the side deck on the boat's STB side. The pipe is marked with the text "Water". The fresh water pump (3) must be switched on when using the system. The pump switch (Pentry pump) is positioned on the switch panel in the corridor. Do not forget to check the pump filter (4) regularly. In connection with the pump there is a hydraulic accumulator (2) which automatically keeps working pressure in the system when the system pump is on.



8.2.1 Hot-water tank

The boat's water system includes a hot water system. The boat's hot-water tank heats up service water either with the engine or shore power. The hot-water tank is located on the STB side of the engine compartment.

When heated by the engine, the hot-water tank is heated by the engine's cooling water, which circulates in a closed system between the engine and the hot-water tank. This circulation is turned on by opening the taps (1) on the forward edge of the STB-side engine.

Heating with shore power occurs automatically when the boat is connected to shore power and the hot-water tank's supply cord is connected to the socket (2). If the water system is not in use, unplug the cord from the socket. The tank may be damaged if heated when empty.

The hot-water tank must be emptied before winter storage. Emptying takes place by opening the tank's drain cock (3) and switching on the fresh water pump. Emptying can be eased by blowing compressed air into the tank.



NOTE !

The fresh water system must be emptied carefully before winter storage. We do not recommend the use of antifreeze in the fresh water system.

8.3 Septic system

The boat is equipped with a collection system for septic waste. This system includes a toilet seat, shower pump, septic tank and septic crusher. The components of the septic system are positioned in the technical space under the helmsman's position. The septic tank meter is located on the toilet switch panel.

The septic tank can be emptied by suction into a permanent septic tank ashore via the inlet pipe (1), which is marked with the text "Waste". Press the suction hose tight against the pipe fitting for the duration of suction to avoid any septic waste spilling onto the deck. Make sure that no septic waste spills onto the water inlet pipe and prevent the suction hose from touching the water inlet pipe. The septic tank's seacock (3) must be closed during suction.

The contents of the septic tank can be emptied straight into the sea with the septic pump. The pump crushes the contents to be emptied into the sea from the septic tank. If you (want to) empty the contents of the septic tank into the sea, open the seacock (3) and switch on the pump from the toilet's switch panel. The pump switch (4) is marked with the text "Septic pump". Do not forget to

close the seacock after emptying the septic tank. Next to the pump switch there is a septic tank meter which shows how full the tank is. Emptying the septic tank into the sea is against the law and good practice of seamanship.



8.3.1 Toilet

The boat is equipped with an electric toilet. It uses seawater for flushing and so the water intake cock (2) must be opened when using the flush function. The cock is positioned in the middle of the boat's technical space. The cock must be closed after use. The toilet's operating switch is to the right of the toilet seat.

The contents of the toilet empty out into the septic tank. An electric toilet flushing pump is located behind the service hatch on the aft bulkhead of the WC.

8.3.2 Shower pump

From the boat's sink and shower, the water flows to the receiver equipped with a drainage pump in the technical space. The receiver is positioned under the fresh water tank.

Water can be pumped from the receiver either straight to the sea or into the septic tank. The pump switch is located in the forward part of the WC and is marked with the text "Shower pump". Always switch the shower pump on when using the shower.

The emptying option can be chosen with a selector valve that is located in the middle forward edge of the tech-

nical space. The receiver is located on the STB edge of the technical space. The receiver must be emptied of water for the winter and regularly emptied of rubbish.

NOTE !

Emptying the septic tank into the sea is against the law and good practice of seamanship.



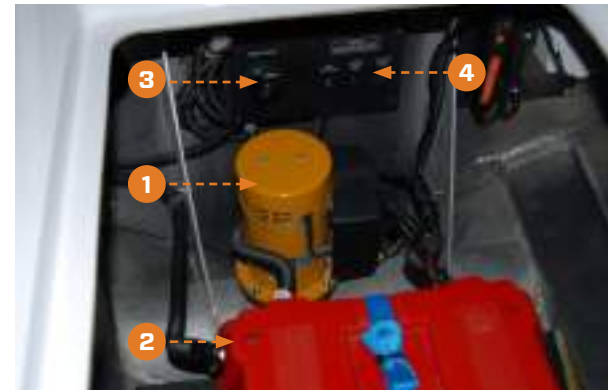
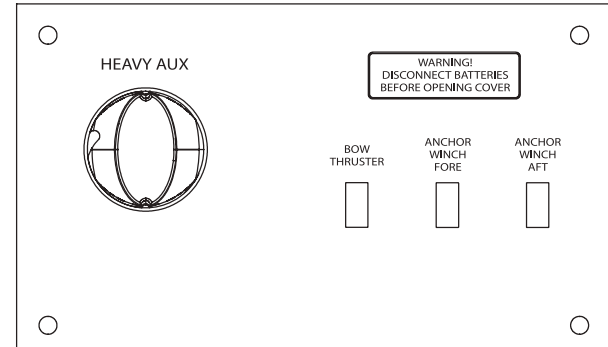
8.4 Bow thruster

Bow thruster (1) is located under the bow cabin bed, and can be reached through the maintenance hatch (2). The Service battery gives power to the bow thruster. The switches of the bow thruster are located in the control panel. Use the equipment only for short periods at a time, and don't exceed the maximum amount of four periods of use (30sec periods during 25 minutes). Wrong use may cause the bow thruster to overheat and short-circuit. The main switch (3) (Aux Heavy) is located next to the bow thruster and its remote-controlled switch on the steering console's switch panel. The main fuse of 200 Ah is located next to the bow thruster (see Figure 20).

In case of overloading the fuse happens please contact professional boat service. It is not recommended to open the lid, because of the danger of serious injury by electric shock. All batteries must be detached from the circuit before changing the fuse. For more information, see manufacturer's manual.

WARNING !

Use the bow thruster only short periods at a time. A long period of use may result in overheating and a risk of fire.



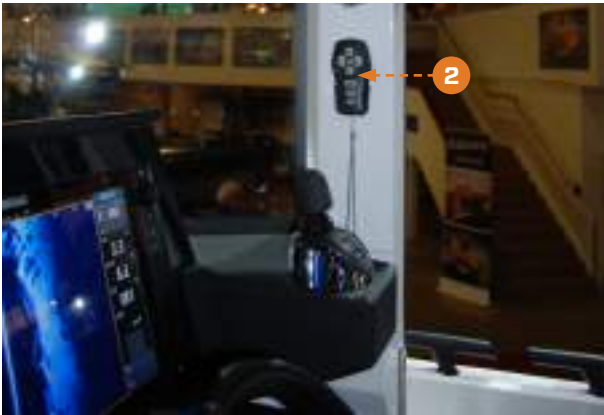
8.5 Anchor windlass

You can choose to equip your boat with fore and aft anchorwindlasses (1) as an optional extra.The remote-control switches (2) for thewindlasses are located next to the helmsman.The main switch for the windlasses (3)(Aux Heavy) is located next to the bow thruster andthe remote-controlled switch (4) on the steering console's switch panel.The manual operating switch for the aft anchor windlass (5) is located in the aft compartment on the portside of the open space. The anchor windlasses use either a service battery or the bow thruster's battery and their 200 Ah fuse is located next to the bow thruster or under the engine room main switch panel (5).

Always before using an anchor windlass check that the windlass is in working order and that the anchor chain can move freely.It is also important to check that the anchor and chain cannot damage the craft when lowered.While under way, an anchor windlass must be fixed mechanically to prevent it from releasing.

DANGER !

Always fasten the anchor wing into its position while the boat is moving. If the anchor winch is detached while the boat is moving, it can cause substantial damage to the boat, its passengers as well as others.



8.6 Heating

8.6.1 Heater

You can choose to equip your craft with a heater* as an optional extra.

Heater: Webasto AT5500

Heating power: 1,7 - 5,5 kW

Number of nozzles: 4 (in aft cabin, cockpit, toilet and fore cabin)

The heater's operation panel is positioned on the left side of the wheel house, next to the switch panel. The heater is equipped with a direct supply switch. For more information see the section on direct supply switches. The heater unit is located under the helmsman's position in the technical space.



8.6.2 Defroster

The defroster warms the boat's cockpit and windscreen. It only heats them when both its cocks (1) have been opened and when the engine is running and warm. If you want the defroster to blast without heating, close the cocks. The cocks are located in the forward part of the portside engine (1).

The defroster's blower unit is located on the STB side of the technical space. The defroster operating switch is located on the steering console. For more information, refer to the manufacturer's manual.

WARNING !

Switching the direct supply switch off too soon may cause an appliance, such as the heater, to become damaged or to catch fire, because such devices have a cooling fan/ventilation feature which continues to run even after power has been switched off. That is why it is important to make sure that the device has cooled down before it is disconnected.



For information on your boat's maintenance, winter storage, service and repairs, please consult your local XO dealer. If you detect any major damage on the aluminium or surface finish, it should be repaired by an authorized XO dealer.

In case of a problem with the engine or retrofitted equipment, please consult Always check the functioning of the most important equipment regularly. These include for example bilge pumps, headlights and the engine. The zinc anodes should be checked every year. The anodes are located in the badge and must be changed when they are more than 50% worn out.

NOTE !

If not carried out properly, many installation and modification operations can damage the structures of the boat or create a safety hazard. Please contact the manufacturer before doing any of the following: construct new earthing points or hatches, fasten or install new equipment on the boat, or mount other metal alloys to aluminum.

NOTE !

If you are installing new equipment to the boat, make sure to use dielectric boards under the surface (the installing surface of the equipment or the socket of the screw) that is touching the finished aluminum surface.



9.1 INSTALLATION OF OPTIONAL EXTRAS

The XD 360 RS can be equipped with many electrical optional extras, for which all the necessary electrical circuits and cables have been prepared and run in advance in the correct places. The electric diagram lists the positions of all the possible cables. Look for more detailed installation and user instructions in the manufacturers' manuals.



9.2 RESPECT FOR THE ENVIRONMENT

Archipelagos and lakes are unique, and their conservation is a matter of honour for all boaters.

Do your best to avoid the following:

- Fuel or oil spills
- Disposing rubbish or waste into the water or on shore
- Discharging detergents or solvents into the water
- Loud noise both out on the water and in harbours
- Generating high wakes, especially in narrow passages and shallow waters.



Observe the local environmental legislation and regulations. Familiarize yourself with the international regulations on the prevention of marine pollution (MARPOL) and comply with these regulations as far as possible.



NOTE!

Please make sure that the detergents, surface finishing products or conserving agents are suitable for aluminum or other surface materials. Make sure to observe the instructions by the manufacturer of the chemicals in question.

APPENDIX 1 TECHNICAL SPECIFICATIONS

The boat is marked with a running serial number known as the CIN (Craft Identification Number). The CIN is marked on the hull, on the starboard side of the stern, on the outer surface of the transom beside the edge strip. You can record the CIN of your boat in the table below. When contacting the builder or a dealer, indicate the CIN and the boat type to make it easier to supply the correct spare parts.

Type identification:	XO 360 RS
CIN:	
Engine make and model:	
Engine serial number:	
Hull material:	Marine aluminium AIMg4,5/ 5083

TECHNICAL INFORMATION

Main dimensions:

Overall length:	11.28 m
Waterline length:	9.80 m
Beam:	3.29 m
Height above waterline:	3.70 m
Draught:	1.00 m

Weights:

Weight, without load:	6590 kg
Weight, fully loaded:	8450 kg

○	Manufacturer's maximum recommended load:	1860 kg
	Maximum capacity on the fixed fuel tank:	763 l
	Maximum capacity on the fixed fresh water tank:	120 l
	Maximum capacity on the fixed septic tank:	72l
○	CE Category:	B – Inshore
	Capacity:	
	Maximum recommended number of persons:	10
	Performance:	
	Maximum rated engine power, kW (hp):	2 x 270 kW (740 hp)
	Speed at the max. rated power:	42 knots
	Additional load components:	
	Basic equipment:	100 kg
	Contents of the fixed fuel tanks:	776 kg (955 l)
	Batteries:	120 kg

Due to reasons associated with the production technology, the main dimensions and capacities may vary slightly. Please note that the specified tank capacity is not always available, depending on the trim and heel angle of the boat.

NOTE !

The specified tank capacity is not necessarily fully available, depending on the trim and load on board.

The tank should always be kept at least 20% full.

MANUFACTURER

XO-boats Oy

Pultitie 18

00880 Helsinki

Finland

Module used: B (EY-type examination)

NOTIFIED BODY

DNV GL SE

Identification number: 0098

Brooktrokai 18

20416 Hamburg

Germany

Technical data

Boat make and model:

XO 360 RS

Design category:

B

Type examination certificate No:

Boat type:

Open, monohull sterndrive/outboard motor boat

Construction material:

Aluminium alloys, fibre-reinforced plastic, PE-HD

The references to relevant harmonised standards and requirements are listed on the next page.

I declare that the recreational craft mentioned above complies with all applicable essential safety requirements in the way specified overleaf, and is in conformity with the type for which the above-mentioned EC type examination certificate has been issued.

XO Boats Oy

Dan Colliander, Managing Director

Date: 28 May 2016

APPENDIX 3 GENERAL REQUIREMENTS

Principal data:	EN ISO 8666:2002
Craft identification:	ISO 10087:1996 / A1:2000
Builder's plate:	RCD annex I, 2.2, 2.5
Owner's manual:	EN ISO 10240:2004
Layout and equipment:	
Man-overboard prevention:	EN ISO 15085:2003/ A1:2009
Life raft storage:	RSG Guidelines
Escape:	EN ISO 9094-1:2003
Anchoring and towing:	EN ISO 15084:2003
Navigation lights:	1972 COLREG
Discharge prevention	-
Installations:	
Engines and engine compartments:	EN ISO 11105:1997
Fuel system:	EN ISO 10088:2001, EN ISO 11105:1997
Electrical system:	EN ISO 10133:2000
Steering system:	EN ISO 10592:1994/A1:2000
Gas systems	-
Fire protection:	EN ISO 9094-1:2003
Dimensioning:	
Construction:	EN ISO 12215-3:2002, EN ISO 12215-5:2008, EN ISO 12215-6:2008



Hydrostatics:

- Stability and freeboard: EN ISO 12217:2013
 - Buoyancy and flotation: EN ISO 12217:2013
 - Maximum load capacity: EN ISO 14946:2001/AC 2005
- Opening in the hull, deck and superstructure: EN ISO 9093-2:2002, EN ISO 12216:2002
- Flooding: EN ISO 11812:2001, EN ISO 15083:2003, EN ISO 8849



Handling characteristics:

- Flooding: EN ISO 11812:2001, EN ISO 15083:2003, EN ISO 8849
- Handling characteristics: EN ISO 11592:2001

Visibility from the steering position:

- RSG Guidelines: EN ISO 11591:2000

- Engine identification: Engine CE-marked
- Noise emission levels: Engine CE-marked



APPENDIX 4 ENGINE INFORMATION

ENGINE 1

MAKE: _____

MODEL: _____

SERIAL NUMBER: _____

ENGINE 2

MAKE: _____

MODEL: _____

SERIAL NUMBER: _____

PROPELLERS

MAKE: _____

MODEL: _____

SERIAL NUMBER: _____



APPENDIX 5 ELECTRICAL DIAGRAMS

Separate document









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<https://www.boat-manuals.com/>