



OWNER'S MANUAL

AX/E 25

MODEL YEAR 2025

AXOPAR 

Table of Contents

1 Introduction.....	5
1.1 Purpose of this manual.....	5
1.2 Safety symbols.....	5
1.3 Document conventions.....	6
1.4 Copyright.....	6
1.5 Disclaimer	6
1.6 Warranty.....	7
2 Safety.....	8
2.1 Safe and responsible boat operation.....	8
2.2 Safety diagram.....	10
2.3 Fire protection and control.....	10
2.3.1 Fire control equipment.....	11
2.3.2 Boat owners' and users' responsibilities.....	11
2.3.3 Checklist: Fire in the motor.....	11
2.3.4 Checklist: After fire.....	12
2.4 Life raft.....	12
2.5 Safety labels on board.....	12
3 Product overview.....	18
3.1 Purpose of use.....	18
3.2 Identification.....	18
3.3 Builder's plate.....	19
3.4 CE certification.....	19
3.5 Dimensions and weight.....	20
3.6 Boat layout.....	21
4 Product description.....	23
4.1 Stability and buoyancy.....	23
4.1.1 Self-draining systems.....	23
4.1.2 Openings in the hull and deck.....	24
4.1.3 Bilge system.....	26
4.1.3.1 Bilge pumps and outlets.....	27
4.2 Technical systems.....	29
4.2.1 Navigation system.....	29
4.2.2 Electrical system.....	29
4.2.3 Charging.....	30
4.2.4 Shore power and high voltage system.....	31
4.2.5 12V system.....	32

4.2.6 Main switches.....	32
4.2.7 Fuses.....	33
4.2.7.1 Direct supply fuses.....	34
4.2.7.2 Heavy duty fuses.....	35
4.2.8 12V Batteries.....	35
4.2.8.1 Winter storage	35
4.2.8.2 Charging the 12V batteries.....	36
4.2.8.3 Cleaning the batteries	36
4.3 Optional equipment.....	36
4.3.1 Bow thruster.....	36
4.3.2 Fresh water system.....	37
4.3.3 Septic system.....	39
4.3.3.1 Toilet seat.....	39
4.3.3.2 Septic tank.....	40
4.3.4 VHF equipment.....	40
4.3.5 Anchor windlass.....	41
5 Transportation.....	43
5.1 Lifting the boat.....	43
5.2 Transporting and storing the boat.....	44
6 Operation.....	46
6.1 Handling devices.....	46
6.1.1 Steering console.....	46
6.1.2 Steering console switch panel.....	48
6.1.3 Steering system.....	48
6.1.3.1 Checking and topping up oil	48
6.1.3.2 Steering maintenance	48
6.1.4 Starting.....	49
6.1.4.1 Electric motor lever.....	49
6.2 Swivel seat - Driver and passenger seats.....	50
6.3 Inspecting the boat.....	51
6.3.1 Checklist: Regular inspection before leaving harbor.....	51
6.3.2 Checklist: After using the boat.....	51
6.4 Handling the boat.....	52
6.4.1 Checklist: Boat handling before leaving harbor	52
6.4.2 Leaving the jetty	52
6.4.3 Driving the boat.....	53
6.4.3.1 Dead man's switch	53
6.4.3.2 Driving at high speed.....	53
6.4.3.3 Driving in rough seas.....	54
6.4.3.4 Maneuvering in narrow channels.....	55

6.4.4 Visibility from steering position.....	55
6.4.5 Using the trim tabs.....	55
6.5 Preventing falling overboard.....	56
6.6 Anchoring, docking and mooring.....	57
6.6.1 Fastening points.....	57
6.6.2 Docking.....	57
6.6.3 Checklist: Before anchoring	58
6.6.4 Towing and mooring.....	58
7 Maintenance.....	59
7.1 Cleaning and maintaining the gelcoat surface.....	59
7.2 Antifouling.....	61
7.3 Maintaining the interiors.....	62
7.3.1 Plastic and painted surfaces.....	62
7.3.2 Doors and hatches.....	62
7.4 Maintaining the cover.....	62
7.4.1 Cleaning the cover.....	62
7.5 Protecting underwater metal parts.....	63
7.6 Preventing corrosion.....	63
7.7 Preventing frost damage.....	63
7.8 Checklist: Before winter lay-up.....	64
7.8.1 High voltage battery.....	64
7.9 Checklist: Before launching.....	65
7.10 Corrective maintenance.....	65
7.10.1 Deposits.....	65
7.10.2 Scratches and nicks.....	65
7.10.3 Stains.....	65
7.10.4 Deep marks, gouges and holes.....	66
8 Environment.....	67
8.1 Requirements for North America.....	67
9 Appendix I: Checklists.....	69
9.1 Checklist: Fire in the motor.....	69
9.2 Checklist: After fire.....	69
9.3 Checklist: After grounding.....	69
9.4 Checklist: Regular inspection before leaving harbor.....	70
9.5 Checklist: After using the boat.....	71
9.6 Checklist: Boat handling before leaving harbor	71
9.7 Checklist: Before anchoring	71
9.8 Checklist: Before winter lay-up.....	72
9.9 Checklist: Before launching.....	72
9.10 Maintenance log.....	73

10 Appendix II: Electrical diagrams.....	75
11 Appendix III: AIS Decontamination – North America.....	76
12 Appendix IV: Transport dimensions.....	77

1 Introduction

1.1 Purpose of this manual

This owner's manual contains important information and instructions for using your boat.

In this owner's manual you can find important information that help you handle and maintain your boat. The manual contains detailed information about the boat and the systems installed, and general information about handling and taking care of the boat. The latest version of the manual is available in electronic format at the manufacturer's website.

Read the manual carefully and familiarize yourself with your boat before you start to use it. Also ensure that the anticipated wind and wave conditions correspond to the design category of your boat, and that you and your crew are able to handle the boat in these conditions.



This owner's manual is not a substitute for boating safety skills or good seamanship.

If this is your first boat or if this boat type is new to you, ensure you can handle the boat before you set out for the first time.

For information about local sea schools and approved instructors, please ask your boat dealer, the local boat clubs and national motorboat or yacht federations for advice. They can also provide information on specific local regulations on issues such as a driving licence or authorization, registration, insurance, and safety equipment.

This owner's manual is not a detailed maintenance or troubleshooting guide. If problems occur, contact the boat manufacturer or its local representative. When you are in need of maintenance or repair and alteration work, always turn to competent and trained professionals. Changes that can affect the boat's security features must be assessed, carried out and documented by competent professionals. The boat manufacturer cannot be held responsible for unauthorized modifications. Every change to the boat's center of gravity (from highly mounted heavy equipment or a new motor type etc.) significantly affects the stability, trim and performance of the boat.

Keep this manual in a safe place and pass it on to the new owner if you sell your boat. If the manual is mislaid or destroyed, a copy can be ordered from your dealer or downloaded from the manufacturer's website.

See the purchase agreement or order for the scope of your purchase. In case something does not work satisfactorily with your boat or its equipment, you can check the service documents for possible service and repair measures. If uncertain, always contact your dealer.

1.2 Safety symbols

This owner's manual contains danger, warning, caution and notice statements informing the user or authorized service representatives of any potential harm to the product or person.

Hazard is defined as a source of potential injury to a person.

All abnormal use is forbidden, including disregarding information on safety.

⚠ DANGER

Danger indicates an imminently hazardous situation which, if not avoided, **will result in death or serious injury**.

⚠ WARNING

Warning indicates a potentially hazardous situation which, if not avoided, **could result in death or serious injury**.

⚠ CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, **might result in minor or moderate injury**.

NOTICE

Notice indicates a potential situation which, if not avoided, **might result in property damage or in an undesirable result or state**.



The information icon calls attention to information that clarifies or simplifies a procedure.

1.3 Document conventions

Units

This manual uses SI units in accordance with ISO 1000. In some cases, other units may have been used alongside.

An exception is the wind velocity, which in the Recreational Boat Directive is given in the Beaufort Scale.

Terminology

In this manual, the right side of the hull is referred to as starboard and the left side as port.

1.4 Copyright

Copyright ©2025 Axopar Boats. All rights reserved.

This Owner's Manual is protected by copyright controlled by Axopar Boats. This manual cannot be wholly or partly reproduced without prior written authorization by Axopar Boats. This material also contains confidential information, which may not be disclosed to others without the prior written consent of Axopar Boats.

1.5 Disclaimer

The material in this manual is for information purposes only.

Axopar Boats reserves the right to change the products without prior notice to improve reliability, function, design or other characteristics of the products. Axopar Boats assumes no liability for any damages, losses, costs or expenses arising out of or relating to the use of this manual or the products described herein.

Axopar Boats makes no representations and warranties with respect to this manual, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

1.6 Warranty

The Limited Warranty for the boat and the relevant contact information are enclosed as a separate document.

For any warranty claims, please contact your Axopar dealer mentioned on the cover page.

2 Safety

⚠ WARNING

The boat owner is responsible for making sure that the safety equipment on the boat meets the rules and regulations of the local authorities.

- Keep the necessary safety equipment up to date and on the boat at all times.

Check the preferred location of the major safety equipment in the section **Safety diagram**.

⚠ WARNING

Overloading the boat can damage the motor, even when shut off.

- When loading the boat, never exceed the maximum recommended load of the boat shown in the builder's plate.
- Always load the boat carefully and distribute loads appropriately to maintain design trim.
- Avoid placing heavy equipment or material high up in the boat.

The liquids in the built-in tanks are not included in the maximum load shown on the builder's plate.

⚠ WARNING

When out on the water, always use the seats intended for the passengers.

Do not exceed the maximum number of persons allowed in the boat, shown in the builder's plate.

The total weight of the persons on board and their personal luggage must never exceed the maximum load of the boat shown in the builder's plate.

⚠ CAUTION

Risk of personal injury and risk of damage to the roof or roof structures.

Do not place or attach any load or equipment on the roof or to the roof structures if there is no specific roof rack.

It is forbidden to enter the roof or dangle from the roof structures.

2.1 Safe and responsible boat operation

Please familiarize yourself to these safety aspects before using the boat. The person controlling the boat is in charge of the safety of all the passengers as well as other seafarers.

Neglecting these safety rules might lead to serious injury or death.

- Anyone who controls the boat must be competent to operate a boat of this type and size.
- The boat must not be controlled by an unqualified operator or by an operator under the influence of alcohol, drugs or other substance which impair judgement.
- The boat must always be operated at speeds that will not put people or property in danger.
- The captain must constantly be aware of conditions surrounding the boat when underway and especially before sharp turns.

- In challenging conditions such as rough water and winds, impaired visibility, and congested waterways; reduce speed, use appropriate navigation equipment and lights, and use a lookout to identify possible hazards.
- Pay attention to your wake. It can endanger smaller boats or damage moored boats or other property. You are responsible for damage caused by your wake.
- Only allow passengers to ride in areas that do not pose a hazard to themselves or the boat.
- Do not allow passengers to ride on aft folding seats, aft fender boxes or gunwales.
- Passengers must remain seated while the boat is moving.
- Use of alcohol, drugs, or other judgment-impairing substances poses a serious threat to yourself and others. The boat operator is responsible for the behaviour of people on board.
- For every passenger on board, the boat must carry one wearable personal flotation device (PFD).

⚠ WARNING
Speed hazard

This is a high-performance vessel; the speed of the craft needs to be adapted to the environment. To ensure your passengers' safety and comfort, avoid sharp turns in speeds exceeding 40 knots. Never operate your boat at speeds which exceed your ability to react to surprising and unpredictable situations. The captain is always responsible for operating the vessel in a safe way.

⚠ WARNING

Never operate a boat at a speed at which you do not feel comfortable.

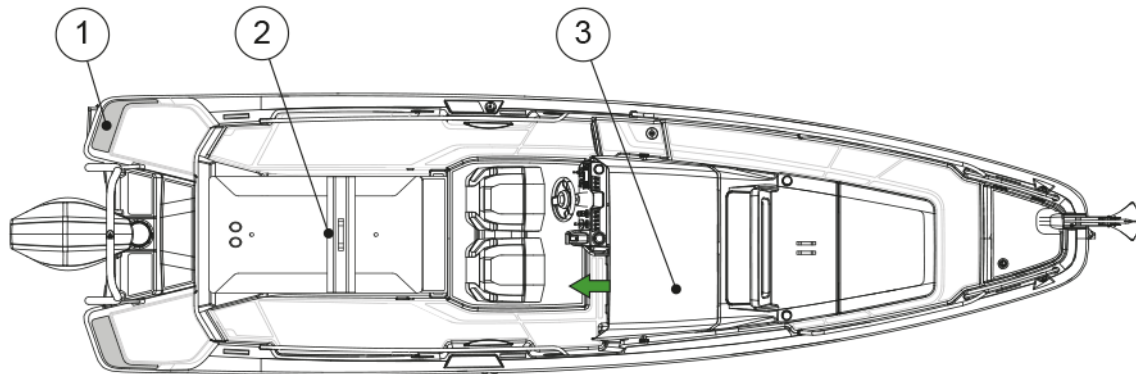
⚠ DANGER
Slipping hazard

Deck might be slippery when wet, even on non-skid areas. Be extremely cautious on slippery surfaces and wear suitable footwear.

⚠ DANGER

Do not go out boating in severe weather conditions as this might lead to serious injuries or death. Always get back to shore before the weather turns bad.

2.2 Safety diagram



- (1) Swim ladder
- (2) Life raft storage
- (3) Fire extinguisher
- Exit

2.3 Fire protection and control

The most common fire sources are the motor and the stove. If there is a fire in the boat, it may result in an explosion.

WARNING

Fire usually spreads very fast — be quick to extinguish the fire with the fire extinguisher on the boat!

See the section **Safety diagram** for the exact location of the fire extinguisher(s).

If the fire starts to get out of control, leave the burning boat to save lives.

WARNING

Always put down the fire by depriving the fire of oxygen.

Do not use water!

Using water in fire involving flammable liquids can spread the liquid and make the fire worse.

WARNING

- Keep the bilge clean.
- Never replace gas containers when the motors are running.
- Never smoke when handling gas.
- Never block evacuation routes or emergency exits.
- Never block access to safety equipment such as main power switches.
- Never block access to fire extinguishers, visible or concealed.
- Never modify the boat's systems (especially electrical or gas systems).

2.3.1 Fire control equipment

Check the exact locations of the fire control equipment in the section **Safety diagram**.

Fire extinguishers

You must fit the boat with a hand-held fire extinguisher with a fire rating of at least 8A/68B.

Check the exact locations of the fire extinguishers in the section **Safety diagram**.



The fire extinguishers are not included in the manufacturer's delivery. Before using the boat, it must be furnished with fire extinguishers.

Fire blanket

A fire blanket is ideal for putting out small fires and also one of the best options if a person's clothes catch fire.

- Keep a fire blanket onboard in an easily accessible place.

2.3.2 Boat owners' and users' responsibilities

It is your responsibility as the boat owner and user to ensure that the fire control equipment is accessible at all times.

- Check the fire extinguishing equipment regularly at the intervals specified for the equipment.
- Replace equipment with expired date immediately with equivalent or better equipment.
- Advise the crew and guests of the location and instructions for use of the fire control equipment, and the location of evacuation routes and emergency exits.

2.3.3 Checklist: Fire in the motor

- Stop the motor.
- Steer the boat up against the wind, if possible.
- Make sure all passengers have life jackets.
- If necessary:
 - Evacuate the passengers.
 - Call for sea rescue.
- Shut off main power switch.
- Extinguish the fire.
- Wait until fully certain that the fire has been extinguished before opening the motor cover.

Carefully open the motor cover and be prepared to use the handheld fire extinguisher if necessary for post-fire extinguishing.

- Put out possible smoldering fires with water.

2.3.4 Checklist: After fire

- Open doors and windows for better ventilation.
- Inspect the boat and its equipment, and repair any damages.
- Contact local authorities, if needed.
- Make sure that the fire extinguishing equipment is refilled or replaced after use.

2.4 Life raft

The boat is not equipped with a life raft by the manufacturer.

Storing a life raft

If you decide to acquire a life raft for your boat, stow it to the aft of the boat, so that it is easily accessible in case of emergency.

Using the life raft

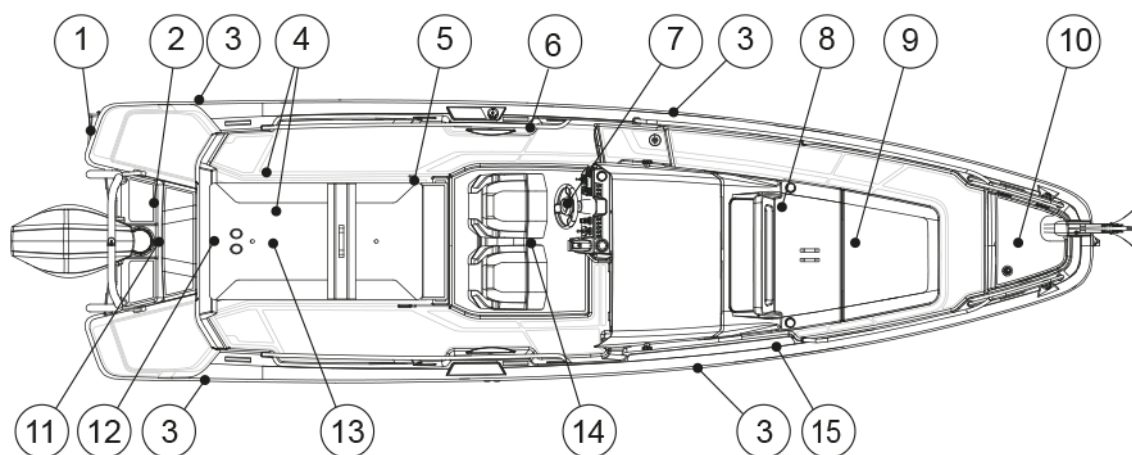
The life raft must be tied to the stern of the boat and prepared for use.


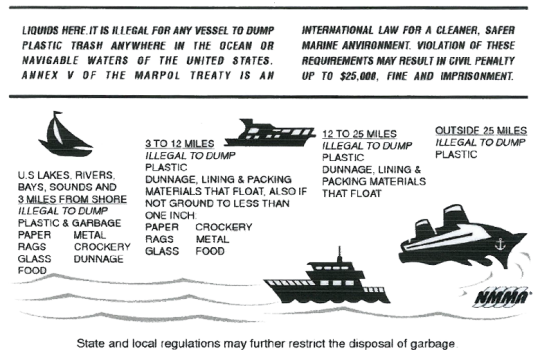

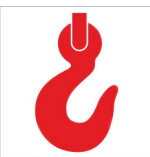
In an emergency, it is easiest and safest to board the life raft from the swimming deck. Switch off the motor before using the life raft.


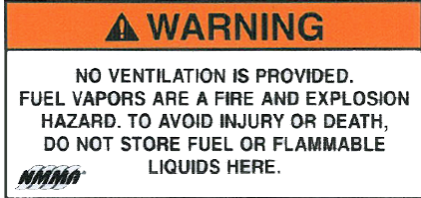

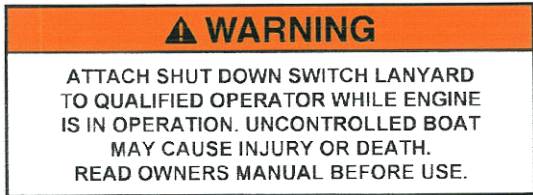


Follow the life raft manufacturer's instructions.

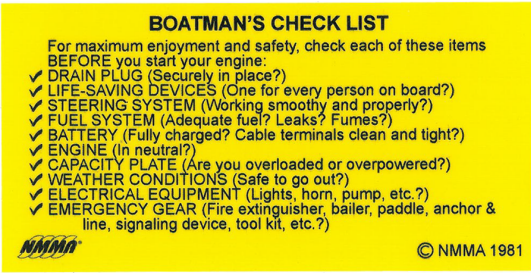



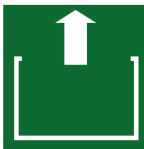

2.5 Safety labels on board


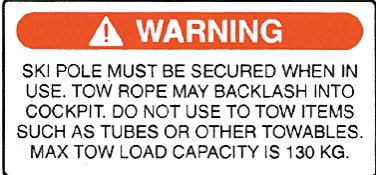



The following picture and table present the location and description of the safety labels on board.


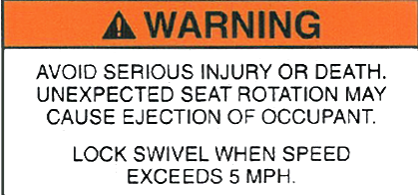
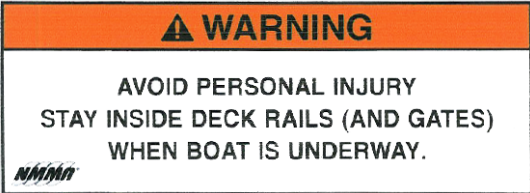


Position	Label	Description
1		Warning Contact with spinning propeller will cause serious injury or death. Stay clear of boat and stay off swim platform and boarding ladder while motor is running.
2		Liquids here. It is illegal for any vessel to dump plastic trash anywhere in the ocean or navigable waters of the United States. Annex V of the Marpol Treaty is an international law for a cleaner, safer marine environment. Violation of these requirements may result in civil penalty up to \$25,000, fine and imprisonment. U.S. lakes, rivers, bays, sounds and <u>3 miles from shore</u> Illegal to dump plastic & garbage, paper, metal, rags, crockery, glass, dunnage, food. <u>3 to 12 miles</u> Illegal to dump plastic, dunnage, lining & packing materials that float. Also if not ground to less than one inch: paper, crockery, rags, metal, glass, food. <u>12 to 25 miles</u> illegal to dump plastic, dunnage, lining & packing materials that float. <u>Outside 25 miles</u> illegal to dump plastic. State and local regulations may further restrict the disposal of garbage.
2	DISCHARGE OF OIL PROHIBITED THE FEDERAL WATER POLLUTION CONTROL ACT PROHIBITS THE DISCHARGE OF OIL OR OILY WASTE INTO OR UPON THE NAVIGABLE WATERS OF THE UNITED STATES, OR THE WATERS OF THE CONTIGUOUS ZONE, OR WHICH MAY AFFECT NATURAL RESOURCES BELONGING TO, APPERTAINING TO, OR UNDER THE EXCLUSIVE MANAGMENT AUTHORITY OF THE UNITED STATES, IF SUCH DISCHARGE CAUSES A FILM OR DISCOLORATION OF THE SURFACE OF THE WATER OR CAUSES A SLUDGE OR EMULSION BENEATH THE SURFACE OF THE WATER. VIOLATORS ARE SUBJECT TO SUBSTANTIAL CIVIL PENALTIES AND/OR CRIMINAL SANCTIONS INCLUDING FINES AND IMPRISONMENT. 	Discharge of oil prohibited The Federal Water Pollution Control Act prohibits the discharge of oil or oily waste into or upon the navigable waters of the United States, or the waters of the contiguous zone, or which may affect natural resources belonging to, appertaining to, or under the exclusive management authority of the United States, if such discharge causes a film or discoloration of the surface of the water or causes a sludge or emulsion beneath the surface of the water. Violators are subject to substantial civil penalties and/or criminal sanctions including fines and imprisonment.
3		Fastening point

Position	Label	Description
4		Fire extinguisher
5		Warning No ventilation is provided. Fuel vapors are a fire and explosion hazard. To avoid injury or death, do not store fuel or flammable liquids here.
6		Warning Qualified operator to be in control at all times. Operation by an unqualified operator can cause loss of control. This may result in severe injury, death, or property damage. Boat stability and handling will change with weight distribution. Read owners manual before use.
6		Warning Attach shut down switch lanyard to qualified operator while motor is in operation. Uncontrolled boat may cause injury or death. Read owners manual before use.
6		Warning Contact with spinning propeller will cause serious injury or death. Stay clear of boat and stay off swim platform and boarding ladder while motor is running.
6		Warning Use caution with skier in tow as tow rope may backsplash into cockpit when released.

Position	Label	Description
7	 <p>BOATMAN'S CHECK LIST</p> <p>For maximum enjoyment and safety, check each of these items BEFORE you start your engine:</p> <ul style="list-style-type: none"> ✓ DRAIN PLUG (Securely in place?) ✓ LIFE-SAVING DEVICES (One for every person on board?) ✓ STEERING SYSTEM (Working smoothly and properly?) ✓ FUEL SYSTEM (Adequate fuel? Leaks? Fumes?) ✓ BATTERY (Fully charged? Cable terminals clean and tight?) ✓ ENGINE (In neutral?) ✓ CAPACITY PLATE (Are you overloaded or overpowered?) ✓ WEATHER CONDITIONS (Safe to go out?) ✓ ELECTRICAL EQUIPMENT (Lights, horn, pump, etc.?) ✓ EMERGENCY GEAR (Fire extinguisher, bailer, paddle, anchor & line, signaling device, tool kit, etc.?) <p><small>© NMMA 1981</small></p>	<p>Boatman's check list</p> <p>For maximum enjoyment and safety, check each of these items before you start the motor:</p> <ul style="list-style-type: none"> - Drain plug (Securely in place?) - Life-saving devices (One for every person on board?) - Steering system (Working smoothly and properly?) - Battery (Fully charged? Cable terminals clean and tight?) - Motor (In neutral?) - Capacity plate (Are you overloaded or overpowered?) - Electrical equipment (Lights, horn, pump, etc?) - Emergency gear (Fire extinguisher, bailer, paddle, anchor & line, signaling device, tool kit, etc.?)
7		NMMA certified
7		<p>Certification plate US</p> <p>Design compliance with NMMA requirements and US Coast Guard safety standards.</p> <p>Meets EVAP standards using certified components.</p>
8		Do not drink the water.
8		Emergency exit
9		Sink drain shutoff valve

Position	Label	Description
10		Warning Keep hands out of machinery. Follow up instructions for remove control enabling.
11		Warning Ski pole must be secured when in use. Tow rope may backslash into cockpit. Do not use to tow items such as tubes or other towables. Max tow load capacity is 130 kg.
12		Warning Electrical shock and fire hazard. Failure to follow these instructions may result in injury or death. (1) Turn off the boat's shore power connection switch before connecting or disconnecting the shore power cable. (2) Connect shore power cable at the boat first. (3) If polarity-warning indicator is activated, immediately disconnect cable. (4) Disconnect shore power cable at shore outlet first. (5) Close shore power inlet cover tightly. Do not alter shore power cable connectors
12		Warning Electrical shock and fire hazard. Failure to follow these instructions may result in injury or death. (1) Turn off the boat's shore power connection switch before connecting or disconnecting the shore power cable. (2) Connect shore power cable at the boat first. (3) If polarity-warning indicator is activated, immediately disconnect cable. (4) Disconnect shore power cable at shore outlet first. (5) Close shore power inlet cover tightly. Do not alter shore power cable connectors
12		Pay attention to the warnings and read the manual.

Position	Label	Description
13	<div>  <p>⚠ WARNING</p> <p>Installation of Maintenance free AGM batteries are only allowed in this area.</p> </div>	<p>Warning</p> <p>Installation of maintenance free AGM batteries are only allowed in this area</p>
14	<div>  <p>⚠ WARNING</p> <p>AVOID SERIOUS INJURY OR DEATH. UNEXPECTED SEAT ROTATION MAY CAUSE EJECTION OF OCCUPANT.</p> <p>LOCK SWIVEL WHEN SPEED EXCEEDS 5 MPH.</p> </div>	<p>Warning</p> <p>Avoid serious injury or death. Unexpected seat rotation may cause ejection of occupant.</p> <p>Lock swivel when speed exceeds 5 mph.</p>
15	<div>  <p>⚠ WARNING</p> <p>AVOID PERSONAL INJURY STAY INSIDE DECK RAILS (AND GATES) WHEN BOAT IS UNDERWAY.</p> <p><i>W/IN</i></p> </div>	<p>Warning</p> <p>Avoid personal injury. Stay inside deck rails (and gates) when boat is underway.</p>

3 Product overview

3.1 Purpose of use

The boat is a recreational boat, thus not suitable for professional use.

3.2 Identification

Each boat has a unique identification code, containing 14 characters and a hyphen.

The height of the code text is 6 mm, and it is located on the starboard side of the stern.

Example: FI – AXO5E010F525	Data
FI	Country of manufacturer: Finland
-	Hyphen
AXO	Manufacturer: Axopar Boats
5E	Boat model <ul style="list-style-type: none"> • E = Cross Bow • F = Cross Top
010	Boat number
F	Manufacturing month <ul style="list-style-type: none"> • A = January • B = February • C = March • etc.
5	Last digit of the manufacturing year
25	Model year

3.3 Builder's plate

The builder's plate is always located close to the steering position of the boat.

Boat has been inspected according to Recreational Craft Directive and related standards' requirements. HPI Verification Services Ltd. has assigned EU Type-Examination Certificate (CE certificate) to the boat model.

Boat carries UKCA marking (shown in right bottom corner of CE plate) to indicate that it complies with the UK Recreational Craft Regulations.



The builder's plate contains the following information:

- Boat model
- Manufacturer's address
- Maximum number of persons on board
- Maximum load: total weight of persons including personal luggage and basic equipment, and excluding tank contents

3.4 CE certification

This boat is classified to CE category C.

The category is determined according to the maximum number of persons allowed onboard.

The CE certification indicates that a boat is designed and built in such a way that it retains its stability and buoyancy in given circumstances and meets other important requirements that are characteristic of the category in question. One of these requirements is that the boat must be easy to maneuver.

The CE categories classification also signifies that a boat is designed and constructed to withstand the following parameters in respect of stability, buoyancy, and other relevant essential requirements stated.

Category	Description
C. Inshore	The boat is designed for voyages in coastal waters, large bays, estuaries, lakes and rivers, where conditions up to and including wind force 6 Beaufort Scale and significant wave heights up to and including 2 m may be experienced.

3.5 Dimensions and weight

Dimensions

Dimension	SI units	US units
Hull length (LH)	8.0 m	26 ft 3 in
Overall length (LMAX) (excluding motor)	8.0 m	26 ft 3 in
Hull beam (BH)	2.23 m	7 ft 4 in
Draught at max. load	0.95 m	3 ft 1 in
Height measured from waterline at light load (without portable navigation light)	Cross Bow: 1.6 m Cross Top: 2.3 m	Cross Bow: 5 ft 3 in Cross Top: 7 ft 7 in

Outboard

	SI units	US units
Maximum recommended motor power	1 x 450 kW	612 hp
Maximum recommended motor weight	380 kg	838 lb

Weight and loading

Hull weight	SI units	US units
Excluding motor and 12V batteries	2665 kg	5875 lb

	Category C
Maximum number of people	6

	Category C	
	SI units	US units
Total weight of people	450 kg	993 lb
Maximum recommended load (including liquids in tanks)	573 kg	1263 lb
Maximum recommended load on CE plate	520 kg	1248 lb
Boat weight at maximum load	3673 kg	8870 lb

of which

	SI units	US units
Personal equipment	40kg	88 lb
Life raft weight	30 kg	66 lb
Consumable liquids in permanently installed tanks	53 kg	118 lb
Maximum mass on trailer	3140 kg	6923 lb

Tank capacity

	SI units	US units
Fresh water tank	30 l	8 gal
Septic tank	23 l	7 gal

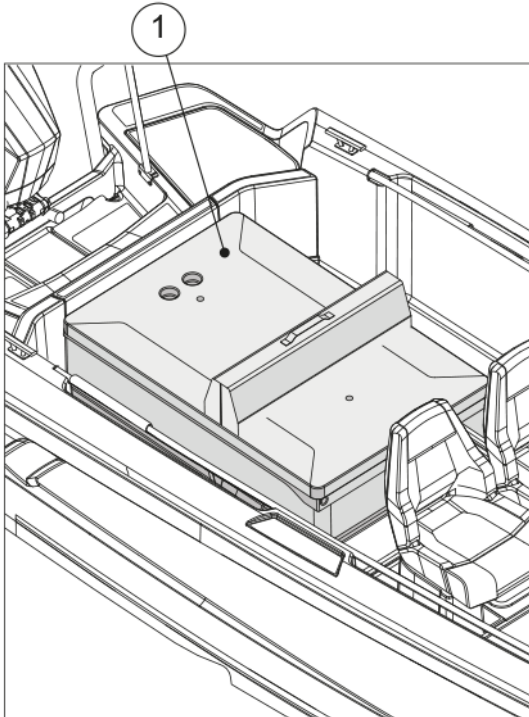
The boat's stability assessment is based on maximum load conditions.

The maximum recommended load only contains the weight components mentioned above.

3.6 Boat layout

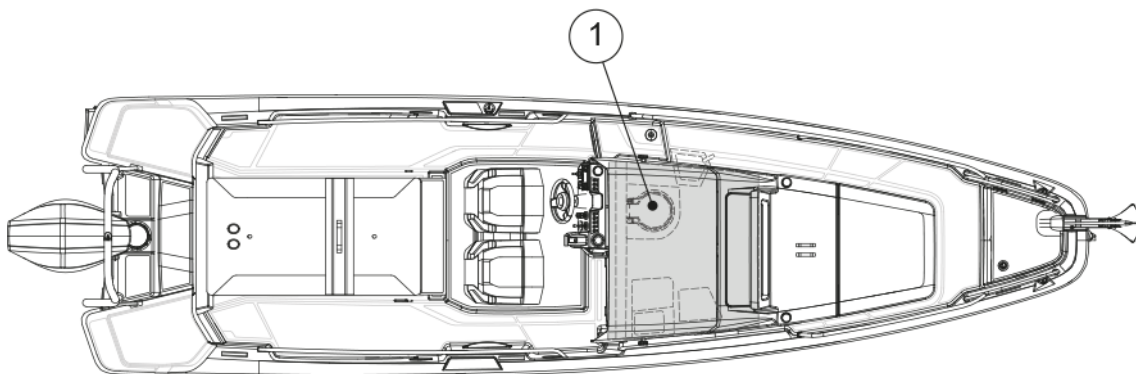
The layout of the equipment and the technical components may vary depending on the chosen accessories.

The standard boat comes with a multistorage compartment.



(1) Multi-storage

The front cabin can be accessed through the sliding door located on starboard side of the cockpit. The front cabin can be equipped with an optional toilet.



(1) Front cabin with optional toilet

4 Product description

4.1 Stability and buoyancy

Pay attention to the stability and buoyancy of the boat.

All weight dispositions (for example installing a fishing tower or radar, and motor replacement) can have a significant impact on the stability, trim, and performance of the boat.

- The bilge water level needs to be kept at a minimum.
- The stability of the boat is compromised if any weight is placed in a high position.

In stormy weather, all hatches, compartments and doors must be kept closed to minimize the risk of flooding.

Breaking waves represent a significant danger to stability.

WARNING

To avoid the risk of flooding, always keep the seacocks closed when not in use (for example, the seacock for the toilet's flushing water).

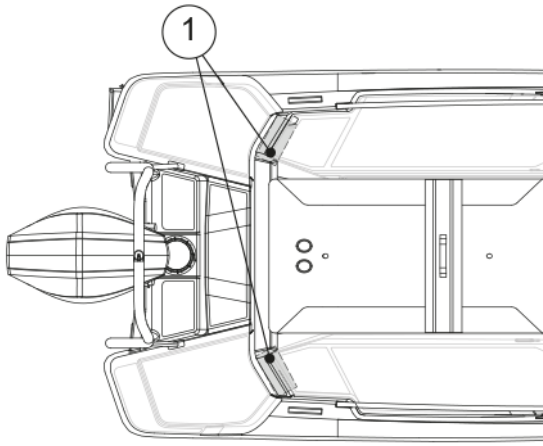
4.1.1 Self-draining systems

The boat is equipped with self-draining systems for the whole deck area. The system is drained through drain holes in the aft of the boat. In addition to rainwater, the drain holes are intended to drain water ending up on the deck through splashing or from breaking waves.

There are drain holes for water in both aft corners of the deck. The openings are directly connected to the sea. The deck of the boat has been designed to allow the water to drain straight into the sea via the water gullies.

CAUTION

Do not close the drain holes when using the boat.



(1) Drain hole

The drain holes must be open at all times. Clean the holes regularly 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.

In the cockpit and driver's floor there are draining holes on both sides of the floor. Cockpit draining holes are equipped with seacocks located on transom. Driver's floor drains to a container located in front of the toilet. There is a water pump that pumps water out from the container.

NOTICE

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.

4.1.2 Openings in the hull and deck

There are several inlets through the boat with valves for opening and closing them.

- Keep the inlets closed if the boat is out of use for a long time, and open them when the boat is taken into use again.
- Keep the inlets open in rainy conditions or if the boat is lifted out from water.
- Always check that all hatches are securely closed before and after using the boat.

- Keep the windows, doors, deck hatches, roof hatches, vents and interior doors closed while driving.

In stormy weather, always keep them securely closed to minimize the risk of personal injuries and water getting into the boat.

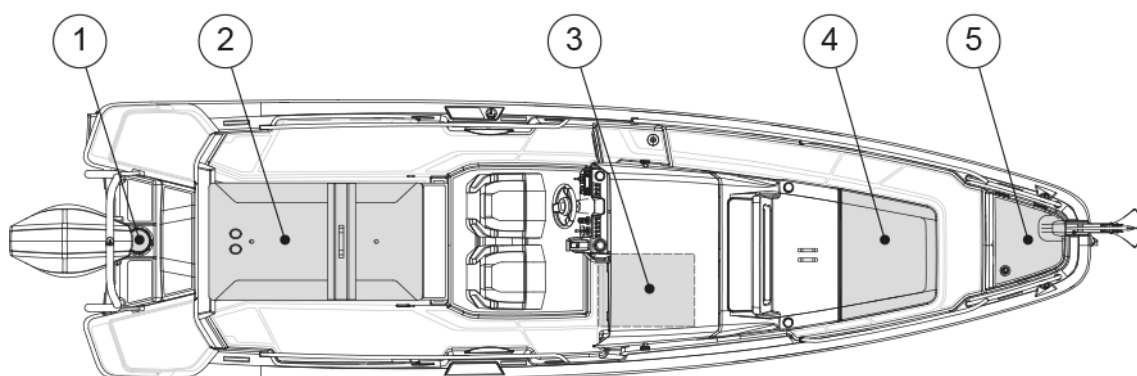
- In certain conditions and speeds, it is possible that water is sprayed inside through canopies, hatches or other openings, due to negative pressure or other effects.

Risk for this can be minimized by closing the canopies, hatches or other openings.

⚠ WARNING

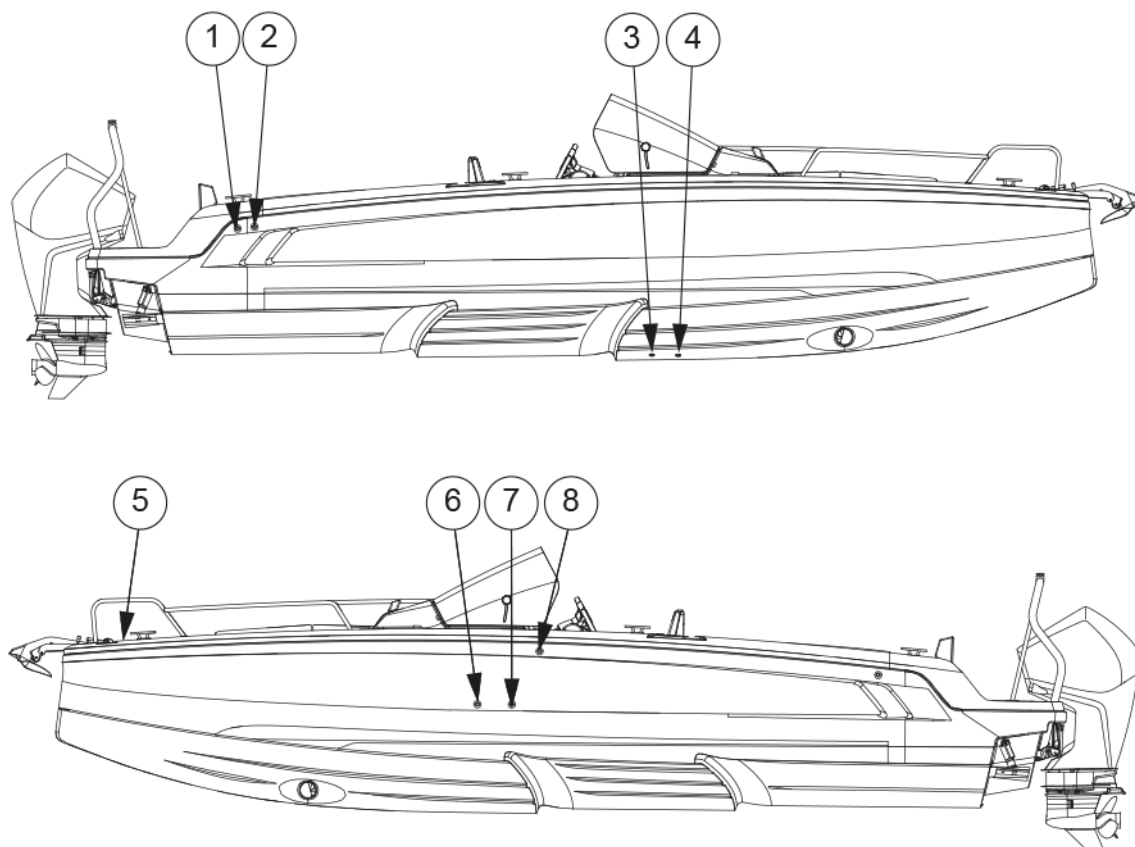
Keep all doors and hatches shut while driving the boat.

The figure shows the hatches that must be kept closed while driving or when the boat is left unmanned.



- (1) Inspection hatch in the motor bracket
- (2) Floor hatch or multistorage roof hatch
- (3) Front cabin door
- (4) Front cabin roof hatch
- (5) Front storage box

The location and number of these components depend on the level of the equipment on the boat.



- (1) Manual bilge pump outlet
- (2) Automatic bilge pump outlet
- (3) Septic discharge
- (4) Transducer
- (5) Fresh water tank ventilation
- (6) Sink outlet
- (7) Front bilge outlet
- (8) Septic tank ventilation

4.1.3 Bilge system

The bilge system is designed to enable keeping the bilge water level at a minimum. The system consists of several pumps that cover all the lower sections of the boat.

The boat is equipped with both manual and electric bilge pumps. The signs on the boat display the draining area of each pump.

The manual bilge pump is controlled with its handle.

The submersible electric bilge pumps are equipped with a float which triggers them automatically if there is water in the bilge space. The electric bilge pumps can also be controlled manually from the switches on the steering console.

⚠ WARNING

The bilge system is not designed for damage control.

The combined capacity of the bilge system is not designed to pump out the boat in the event of hull damage.

NOTICE

Keep the bilge area clean by washing it ever so often using bilge cleaner or biodegradable soap and water. Clean bilge significantly helps noticing signs of leaks or other problems that may occur.

NOTICE

- Check the functionality of the bilge pumps regularly by manually activating them.
- Remove any waste from the intakes.
- Clear the pump outlets from debris.

If seacocks are fitted in the fore and aft peak bulkheads, keep them closed, and only open to let water drain into the main bilges.

NOTICE

Do not run the pumps dry for a long time. The pumps will be damaged.

NOTICE

Avoid pollution.

Since the bilge system comprises of several automatic and manual pumps that cover all areas of the boat, the risk of accidental discharge of contaminated water by automatic pumps needs to be minimized.

Mitigate the risk by checking the bilge water regularly for contaminants such as oil, diesel, and glycol.

Before every use

Make sure that:

- The bilge pumps can operate freely, and there are no objects blocking operation.
 - Water can flow through the strainer, and there is no muck or material restricting the water flow.
- Clean the strainer by pushing the lock tabs in the pump motor and lifting the motor unit off.

4.1.3.1 Bilge pumps and outlets
Bilge pump output

- The manual bilge pump output is 35 liters (9.2 gallons) per minute.
- The automatic bilge pump output is 50 liters (13.3 gallons) per minute.

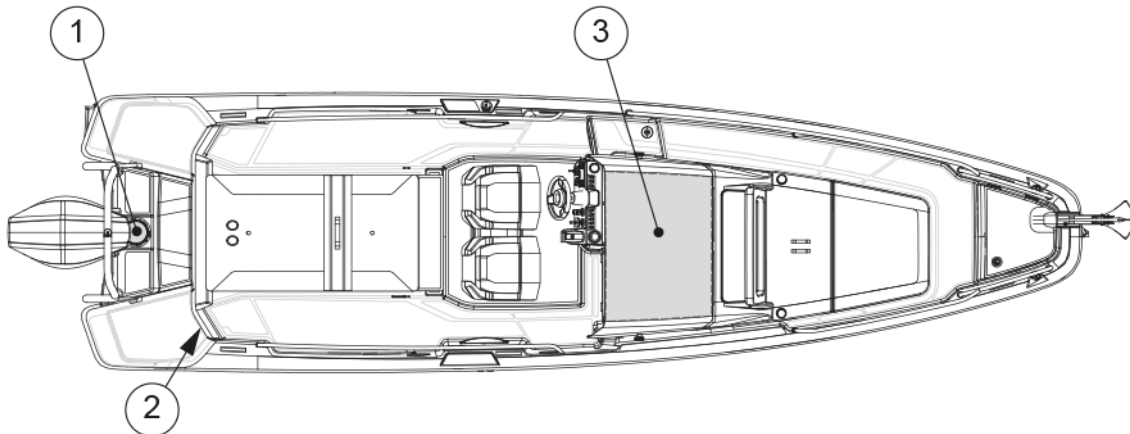
Bilge pump locations

The manual bilge pump's control handle is located in the aft sofa or the aft of the multistorage.

The electric bilge pumps are submersible. One electric bilge pump is located in the stern of the boat, and the pump is accessible through the inspection hatch in the motor bracket.

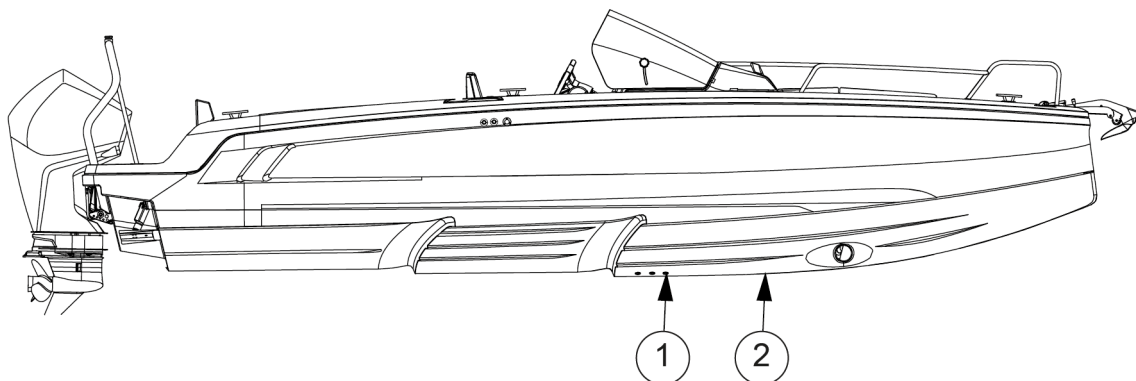
The second electric bilge pump is located under the front cabin floor. The electric pumps are by default in automatic mode and pump out the bilge once the float-switch is triggered. The electric bilge pumps can also be started manually from the boat's main control panel.

- (1) Aft electric bilge pump
- (2) Manual bilge pump
- (3) Front electric bilge pump



- (1) Aft electric bilge pump
- (2) Front electric bilge pump
- (3) Manual bilge pump

The figure shows the seacocks and inlets through the side. Always check in the spring when launching that the inlets through the side and bottom are tightly closed.



- (1) Waste water outlet
- (2) (Transducer)

4.2 Technical systems

4.2.1 Navigation system

Your boat can be equipped with multifunction displays (MFD).

Depending on the boat configuration, the boat is equipped with single or multiple screens.

The multifunction display can be used to show electronic charts, plot courses, and navigate the boat. It also acts as interface for marine electronics and other digitally enabled equipment on board.

Refer to the supplier's manuals for complete user instructions and maintenance instructions of these functionalities and equipment.

4.2.2 Electrical system

WARNING

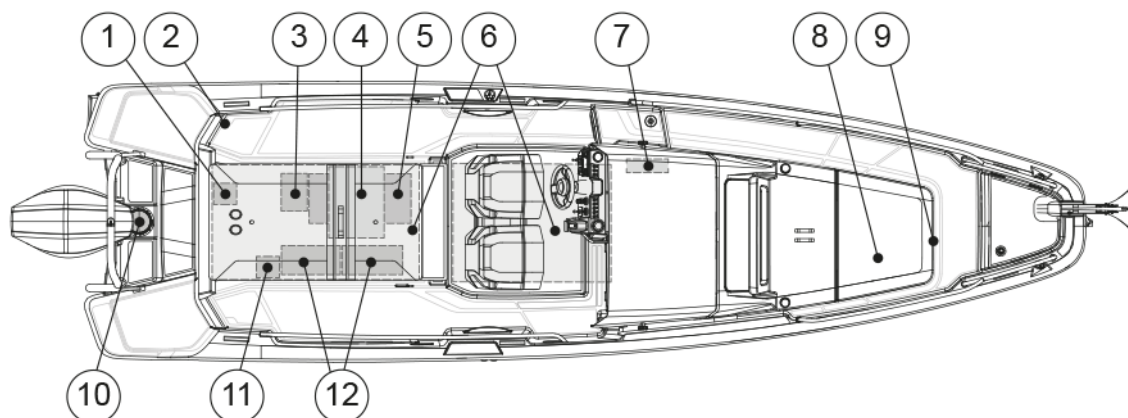
Risks of fire, explosion and electric shock!

Improper use of electric DC and AC systems may result in fire, explosion or electric shock.

Follow the instructions carefully.

WARNING

Never modify the propulsion system, battery type or system components.



- 1 Main switch panel
- 2 Shore power inlet
- 3 DC-DC converter
- 4 High voltage cabinet
- 5 22 kW charger
- 6 High voltage battery (2 pcs)
- 7 Boat fuse panel
- 8 Heavy auxiliary battery main panel
- 9 Optional bow thruster battery
- 10 Outboard fuses (Evoy)
- 11 Control system fuses (Evoy)
- 12 12V batteries

4.2.3 Charging



Before beginning to charge, carefully read the detailed instructions provided in the motor's manual.

The boat has onboard chargers. The charging socket on the boat is of the type CCS 2. Charging can be done in three phases, 400VAC, three phases 230VAC, or single phase 230VAC net with a neutral conductor. Use suitable transitions to be able to connect to the outlet.

⚠ CAUTION

You must not set a charging current that exceeds the rating of the fuse in the circuit to which you are connected. For instance, if you are on a circuit with a 32A fuse, the charging current should not surpass 32A, although lower currents like 16A or 10A can also be used. Exceeding the fuse's capacity will cause it to trip, and if the fuse is faulty, it could lead to equipment damage. Always choose an appropriate charging current before plugging in.



During charging the boat needs cooling and receives this through the sea water intake. It is important that the boat receives sufficient cooling, so the sea water intake must not be obstructed at any times.



Always connect the plug in the boat last and disconnect it first. The special kind of plug on the boat prevents you from driving if it is in.



Make sure that the cable has a good route to land so that it is not stretched or pinched between the boat and the shore / pier. Pay particular attention to tides.

To start charging

1. Move the throttle level to neutral position and check that the green light is steadily lit.
2. Disable the dead man's switch.
3. Select **Charging threshold** and **Charging current (A)** on the screen.
4. Connect the charging cable.
5. Turn off the screen, if you prefer.



Do not turn off the 12V main switches while charging.

4.2.4 Shore power and high voltage system

The high voltage battery for an electric motor is charged using a shore power connection. The integrated charger is connected to both the motor systems (Evoy) and the service battery.

For detailed instructions on charging the motor, refer to the owner's manual.



- Do not modify the craft's electrical system or relevant drawings.
- Installation, alterations and maintenance should be performed by a competent marine electrical technician. Inspect system at least twice a year.
- Disconnect the shore power connections when the system is not in use.
- Connect metallic housings or enclosures of installed electrical appliances to the protective conductor system in the craft (green or green with a yellow stripe conductor).
- Use double-insulated or grounded (earthed) electrical appliances.

WARNING

To minimize shock and fire hazards:

- Always connect the plug in the boat last and disconnect it first.
- Close the shore power inlet cover tightly, when not in use.

The boat's plug is a specialized type that prevents operation if it remains inserted.

⚠ DANGER

Risk of electric shock and fire!

- Do not touch an energized high voltage system.
- Try to minimize the risk of electric shock, short circuit or fire.
- Do not allow the shore power cable to hang in the water. If it does, a hazardous electric field which can cause injury or death to nearby swimmers could be created in the water.
- Never modify the connections on the shore power cable. Use only compatible cable connectors and shore power receptacles.
- If the earth fault breaker is tripped, disconnect the shore power cable immediately. In such a case contact a qualified electrician for repairs before the system is used again.

4.2.5 12V system

The 12V system consists of batteries and equipment. The power is supplied to the batteries via charger from high voltage system

To activate the circuits in the 12V system, the main switches for the corresponding circuits need to be activated and the fuses intact. When the electronic circuit is switched on, the equipment can be operated from the main switch panel.

⚠ WARNING

- Never switch off the motor systems (Evoy) or the service battery when charging or when boat is underway.
- Never carry out electrical installations when the power is switched on.
- Never modify the boat's electrical system or diagrams. Service and maintenance must be carried out by a qualified electrician.
- Never alter or modify the rated amperage of the overcurrent protective devices.
- Never install or replace electrical equipment with components that cause the circuit's nominal rated amperage to be exceeded.
- Never leave the boat unattended with the electrical system energized, except automatic bilge pump, fire protection, and alarm circuits.
- Maintain any damaged equipment before taking it back to use.

4.2.6 Main switches

The different electronic circuits of the boat are controlled by the main switches on the distribution board.

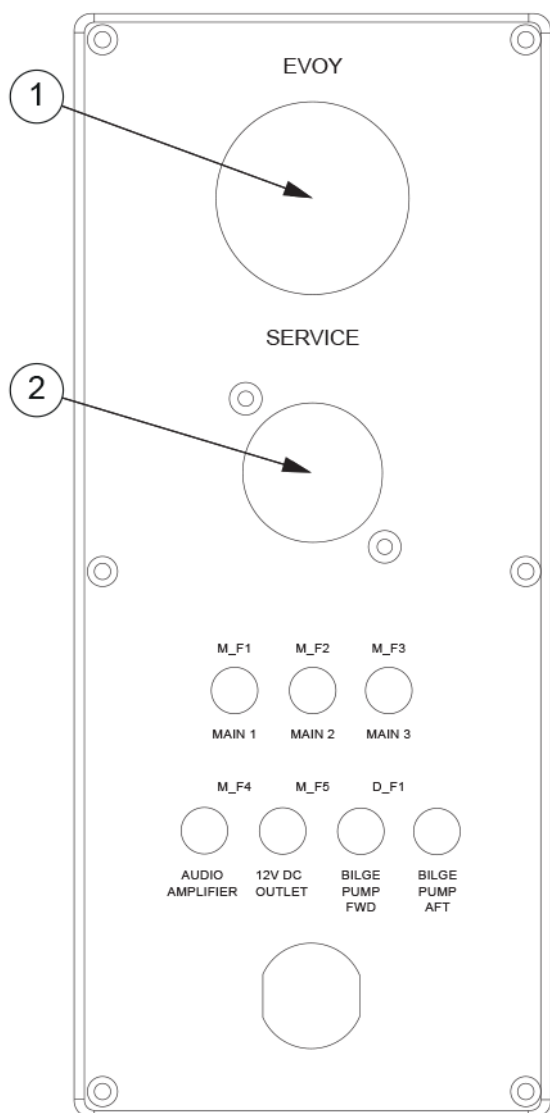
The main switches allow the batteries to be disconnected from all devices that consume electricity. When the main switches are in the On position, the current is conducted to the distribution board and from there to different parts of the boat.

The background color of the main switch and the text **On** shows that the electronic circuit is switched on, and when the circuit is switched off, the background color is red and the text says **Off**.

When you leave the boat for any length of time, switch off the current from all main switches. Devices that constantly need current are active regardless of the position of the main switches.

The design drawing of the boat's electrical system is presented in **Appendix II**. The main switch is located under aft seat. In the main switch panel are direct supply switches for critical equipment and main switches for the motor system (Evoy) battery, the service battery and the Aux battery.

Current feed to the motor is achieved by turning the motor systems (Evoy) switch to the On position, and feed to other equipment is achieved by turning the service switch to the On position.



1. Evoy - motor systems
2. Service battery

4.2.7 Fuses

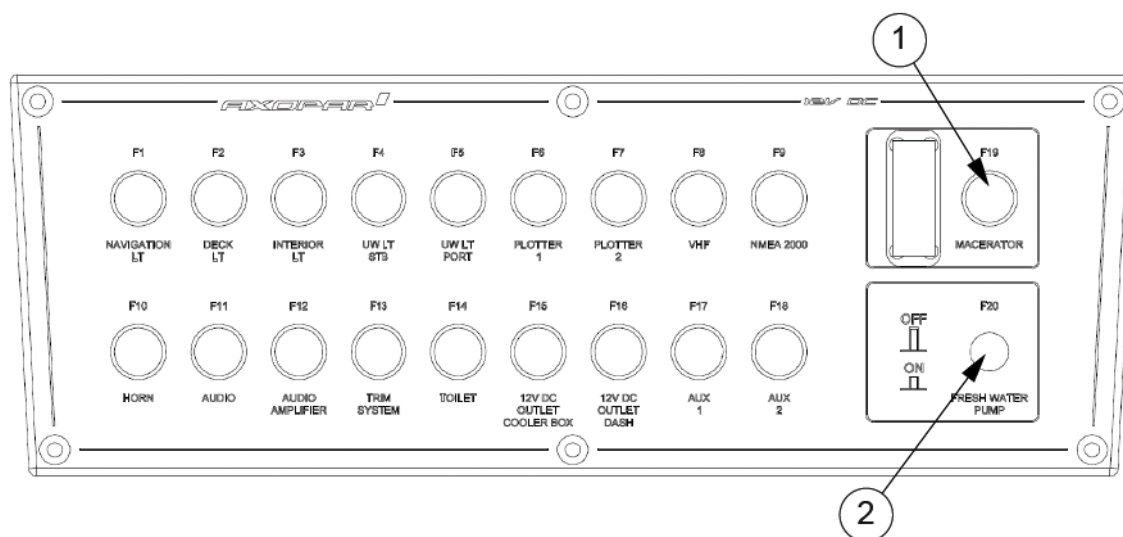
The fuse panel includes fuses for the boat's equipment.

The fuses are in the form of trip switches that break the circuit and spring up when tripped. Do not reset the switch before you have found out the reason for the breaker tripping. After that press the switch back down.

The panel has a combined switch and fuse for the macerator and the fresh water pump. The fuse panel also has a 12V output.

⚠ 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.



- (1) Macerator pump switch and fuse
- (2) Fresh water pump switch and fuse

4.2.7.1 Direct supply fuses

Some of the devices in the boat are supplied by direct supply switches. Direct supply switches are intended for such equipment that need current when the main switches are turned off.

When pushed down, the switch is on and when pushed up it is off. The switch indicates a short circuit or interference in the electronic circuit by springing up to the “off” position. The switch can be reconnected by pushing it back down to the “on” position. Do not reconnect the switch before you have found out the reason for the interference.

The direct supply switches must be left on even if the current from other circuits is switched off. An appliance that is switched off too early may cause the appliance to overheat and become damaged.

⚠ WARNING

Turning the direct supply switch off too early may cause the device (for example, the 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.

4.2.7.2 Heavy duty fuses

The functioning of fuses can be checked from the holes in the fuse's cover. 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.

WARNING

Opening the cover is not recommended, as there is a danger of electric shock and serious injury.

If the metal strip is damaged, contact a qualified nautical electrician. If it is necessary to open the cover, make sure that all the current cables from the batteries are disconnected.

4.2.8 12V Batteries

The batteries are located in the aft of the boat. The exact location of the batteries is presented in the section **Electrical System**.

WARNING

Only use maintenance-free AGM batteries in the boat.

- When you leave the boat, switch off the main switches unless the shore power cable is connected.
- Remove the 12V batteries from the boat for winter storage.
 - When removing a battery, detach the negative pole first.
 - When disconnecting batteries, be careful not to touch both poles at the same time with a metal tool.

4.2.8.1 Winter storage

For winter storage, the 12V batteries can be left on board only if they are fully charged.

A partially discharged battery can freeze and crack. Always disconnect the cable terminals from the battery to avoid oxidation. When removing batteries, disconnect the negative pole first and make sure that there are no flammable or explosive materials or liquids nearby. When putting the batteries back in place, connect them in reverse order (positive pole first).

Check detailed instructions for high voltage system battery storage from motor manual. Keep high voltage system at 30% state of charge during winter.

4.2.8.2 Charging the 12V batteries

WARNING

- Remember that the batteries discharge an explosive oxy-hydrogen gas at a voltage of 14.4 volts.
 - The voltage of a normal battery in unloaded status is 12.3-12.7V.
 - During charging, the voltage increases and the charging regulator stops the charging process automatically at a preset level.

4.2.8.3 Cleaning the batteries

The top of the batteries needs to be cleaned regularly to avoid current leakage between the cells. If the battery is located in a separate area, it is normally sufficient to clean it in the spring and autumn.

Make sure that the air holes in the cell plugs are open so that gas can be vented.

The terminals and cable terminals must be lubricated to prevent deposits and corrosion.

4.3 Optional equipment

This section presents the optional equipment and systems available for the boat.

4.3.1 Bow thruster

The bow thruster enhances the maneuverability of the bow when docking or performing other maneuvers that require increased operator control.

The bow thruster is powered by the Aux battery.

The batteries must be disconnected from the electronic circuit before changing a fuse. For more information, see the manufacturer's manual.

WARNING

Incorrect use may cause overheating and short circuiting, and pose a fire risk.

- Use the bow thruster for only short periods at a time.
- Do not exceed four duty cycles (max. 30 seconds long in 25 mins).

If overloading occurs, contact a qualified marine electrician.

WARNING

- Do not touch the bow thruster or its fuse if the Aux main switch is switched on.

DANGER

Pinching hazard

Never put your hand or any other body part near a windlass or bow roller in operation.

4.3.2 Fresh water system

You can choose to equip your boat with a fresh water system as an optional extra.

The fresh water system consists of a fresh water tank and pump. The boat may also be equipped with a water supply point in the toilet, under the seat, and in the deck shower.

The tank is located under aft deck. The pump is integrated in the tank. The fresh water tank is filled via the inlet pipe on the aft foredeck.

The fresh water system is turned on by switching on the fresh water pump. The pump switch is located on the fuse panel.

The system maintains a working pressure automatically, which is why the pump does not need to be shut after use.

Switch the system off when leaving the boat. Do not forget to check filter in the pump regularly.

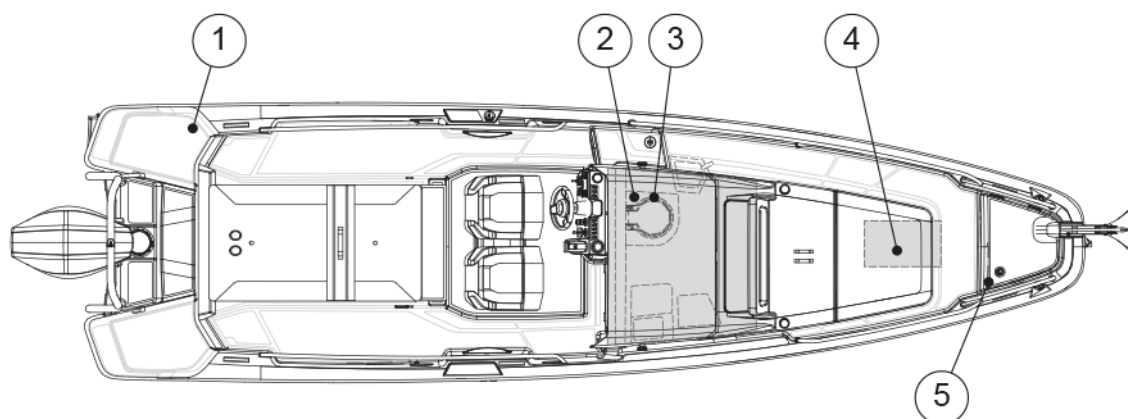
The dealer is responsible for disinfecting the fresh water tank before sale.

NOTICE

The water from the system is not meant for drinking.

The fresh water system must be thoroughly emptied for winter storage.

It is not recommended to use any anti-freeze products in the fresh water system.



- (1) Deck shower
- (2) Toilet tap
- (3) Freshwater pump switch
- (4) Water tank and pump
- (5) Water inlet fitting

The water pump has also two LEDs indicating the operating status and faults in the pump operation. For more information about the signals, please refer to manufacturer's manual.

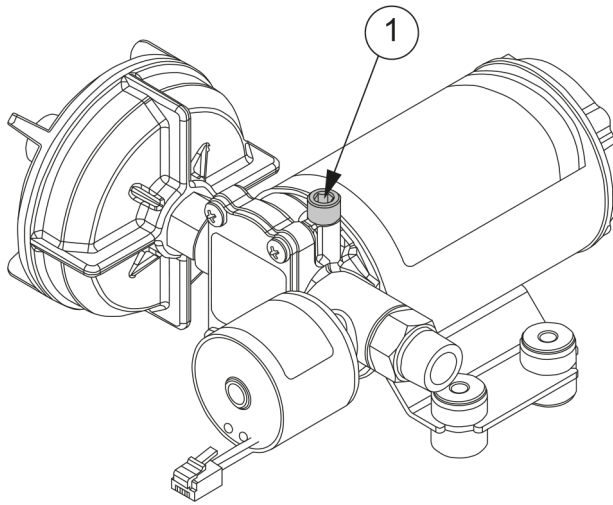


Figure 4.1 Water pump and air release valve

Freshwater system needs to be disinfected and flushed annually or after longer periods of non-use to keep the system in working order.

Disinfection procedure is described below:

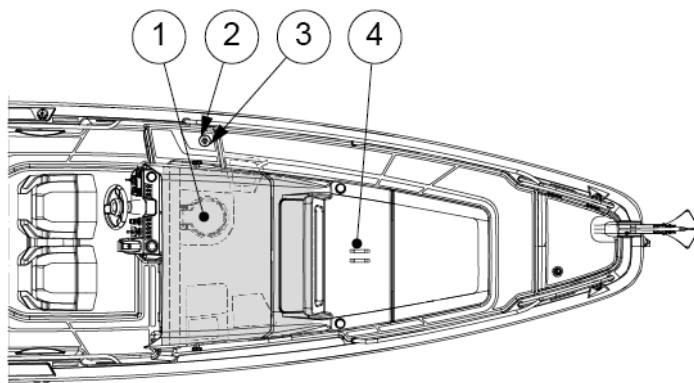
1. Flush the entire system thoroughly by running potable water to flow through it.
2. Drain the system completely.
3. Fill the entire system with disinfecting solution and follow the manufacturer's instructions.
4. Drain the entire system once disinfection process is complete.
5. Flush the entire system thoroughly several more times with potable water.
6. Fill the system with potable water. Freshwater system is now ready to be used.

Maintenance

Annually inspect hose connections, tube fittings and pump electrical wiring connections for proper securing and no chafing. Water pump inlet filter is recommended to be checked and cleaned annually. Running the system regularly helps keep the water pump's impellers in working order.

4.3.3 Septic system

The boat's septic system consists of the toilet seat, the septic tank and the related systems.



- (1) Toilet seat
- (2) Septic macerator
- (3) Septic tank suction fitting
- (4) Septic tank and raw water intake seacock

Maintaining the macerator

The macerator pump can get stuck if it is not used for extended periods of time. Regular use of the macerator helps to prevent this from happening.

If the macerator pump gets stuck, please contact your dealer for repairs.

4.3.3.1 Toilet seat

NOTICE

- Never put any other objects but toilet paper in the toilet.
- In order to avoid damages, you must also not pour hotter than lukewarm water into the toilet.
- It is under no circumstances allowed to flush paper towels, fabric or rubber products, hard objects, oil products or solvents down the toilet.

Using the electrical toilet

The electrical toilet is used with a separate operating switch. For more information on the device, see the manual for the toilet.

Maintaining the toilet

- Clean the toilet with a mild cleaner.
- Never use cleaning agents or deodorants which contain pine oil, formaldehyde or chlorine, nor corrosive or petroleum-based agents.

These materials can damage the plastic and rubber parts in the toilet.

- Lubricate the pump shaft with Vaseline to increase the service life of the seal.
- Flush the toilet system thoroughly with fresh water when the boat is not in use.

4.3.3.2 Septic tank



Avoid environmental pollution!

The blackwater tank is fitted with a deck outlet pump using an international standard type connection. Using the pump, the black water can be emptied to a permanent septic tank ashore. These facilities must always be used.

In areas where there are no permanent septic tanks, the macerator is used to evacuate the contents of the tank straight into the water as follows: Open the sealed seacock. If possible, empty the tank daily and always in deep waters far from the shore. For the location of the pump, see the section **Septic system**.



The shut-off valve must be closed after the evacuation.

Do not allow the tank to become full. It can lead to paper becoming compacted in the bottom of the tank, making it more difficult to empty.

NOTICE

Before the boat is laid-up for winter storage, the whole system must be cleaned and flushed thoroughly while the boat is still in the water.

The whole system must be thoroughly drained of water when the boat is lifted out of the water.

This measure prevents frost damage, bacteria growth and smells.

Use of antifreeze is not recommended, since it is impossible to guarantee that it reaches all parts of the system.

4.3.4 VHF equipment

VHF radio allows instant communication between your boat and other boats, marinas, bridges, and maritime authorities.

The VHF radio is the recommended means of communication on the coastal waters, and it transmits messages on high frequency waves. The VHF system consists of a VHF radio unit near the drivers position and a radio antenna located either on the mast or on the roof of the boat depending on the boat model.



Study the provided booklet for the local regulations and the functionalities related to the use of the VHF system.



For your safety, make sure the VHF system is operational before going out to open sea.

4.3.5 Anchor windlass

Operation

To operate the windlass, windlass breaker must be switched on.

Windlass is operated with a momentary switch. Pushing the up button will raise the anchor and pushing the down button will lower the anchor.

If there is a loss of power to the windlass, check the windlass breaker to see if it needs to be reset. If the breaker keeps tripping after it has been reset, the anchor windlass system is recommended to be inspected by a qualified electrician.

The anchor windlasses are powered by the Aux battery. The battery and its fuse are located in the bow of the boat.

WARNING

- Do not touch the anchor windlass or its fuse if the main switch Aux is switched on.
- Even if the current is switched off, do not change the windlass fuse. The high current may cause a fatal electric shock.

Manual operation

In case of loss of power, the windlass can be manually operated by disengaging the clutch. Please refer to the manufacturer's manual how to operate the windlass manually.

Before using the anchor windlass

Always check that:

- The windlass is in working order.
- The anchor chain can move freely.
- The anchor and the chain cannot damage the boat when lowered.
- The anchor and anchor chain cannot hit any person.

For more information, see the manufacturer's manual.

While under way

The anchor windlass must be fixed mechanically to prevent it from coming loose when the boat is moving. For more information, see the manufacturer's manual.

WARNING

Pinching hazard

Never put your hand or any other body part near a windlass or bow roller in operation.

⚠ WARNING

If the windlass loosens when the boat is moving at great speed, it may cause great damage to the boat, its passengers and outsiders.

- Always fix the anchor windlass mechanically in place before getting under way.

⚠ WARNING

- Keep all body parts and clothing away from an activated windlass.

NOTICE

- Do not use the windlass to pull or tow another vessel.

Maintenance

Salt deposit accumulating on the windlass should be washed away with fresh water regularly to prevent corrosion. For more information, please refer to the manufacturer's manual.

5 Transportation

5.1 Lifting the boat

Lift the boat only with a lifting beam and lifting straps. Use the specified locations for the lifting straps.



Commission only a reputable lifting company or a boat yard with sufficient lifting capacity to lift the boat. Make sure the company has full insurance cover, in case of any damages.

⚠ DANGER

Risk of serious injury or death by falling load.

- Do not stay under the boat when it is hanging in the crane.

Lift straps may slip on the hull. When appropriate, tie the straps together before lifting.

The position of the straps may need to be adjusted depending on how the boat is loaded.

In addition to the boat's own weight, take into account the equipment and other possible loads in the boat.

⚠ CAUTION

Note the location of the log transducer to avoid damaging it.

- Protect the hull sides well to avoid damages.

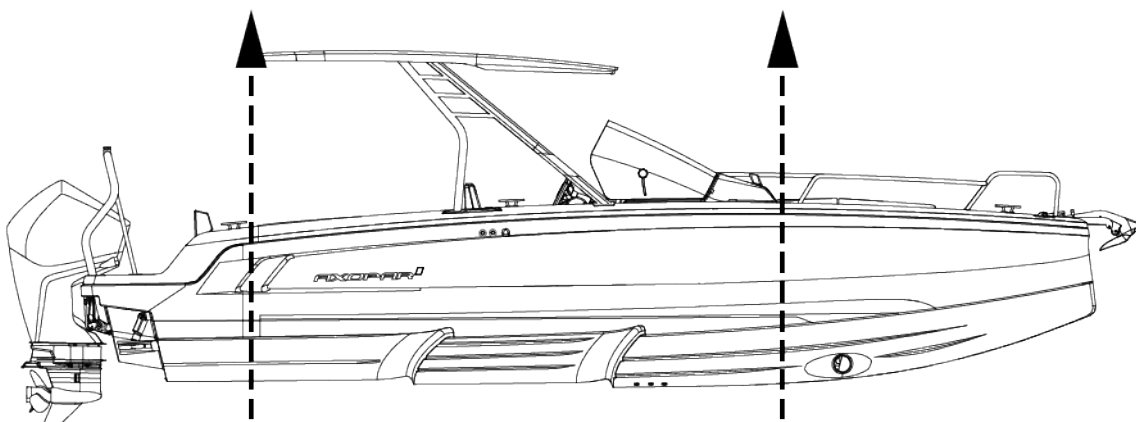
The lifting beam must be exactly the same width as the boat. Always take great precautions near and around the boat when lifting.

⚠ CAUTION

Risk of damage to the hull.

Do not lift the boat with a forklift.

The location of the lift straps is indicated in the figure.



Before operating any lifting equipment:

- Check and determine applicability of federal, state, or local requirements.
- Follow the lift equipment manufacturer's requirements and recommendations.
- Check the boat's lift points, weight and other information.
- Straddle lift operation is a highly technical area that requires trained and experienced operators.

During lifting:

- Check the boat for bilge water before lifting.
Excessive quantities of bilge water can shift, changing the balance of the load.
- Check for thru-hull appendages such as knot meters and stabilizers, rub, spray, and splash rails, so that they are not damaged by the lifting equipment.
- Check the hull structure to locate shafts, rudders, struts, and the forward and aft ends of any keels.
- Check the hull's structural configuration, including the location of bulkheads, stringers, motors, and tanks.
- Check bilges for water ingress following launch.
- Transport the boat as close to the ground as practicable.

5.2 Transporting and storing the boat

Before lifting the boat onto the trailer, make sure that the trailer is suitable for the boat.

Make sure that there is 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 motors, equipment, battery, boating accessories and fuel on board. Pay special attention to exposed areas and edges of hull, such as strakes and steps in the hull, during loading, deloading and transportation.

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 motors, fuel and equipment.

CAUTION

The hull of the boat can be damaged if there is an insufficient amount of supports on the trailer or during the storage.

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.

Before loading the boat on the trailer:

- Remove any unnecessary weight from the boat.
- Drain the bilge water.
- Adjust the side supports of the trailer so that the most weight rests on the keel supports, and the side supports only offer lateral support.

- Protect the boat by placing suitable padding between the tie down straps and the boat, if necessary.
- See the motors manual for any instructions on trailering.
- Make sure that the doors and hatches are properly closed.
- 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.

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.

Boat storing

- Make sure that the bow is slightly elevated when in storage, to help potential water escape the deck.
- Make sure the boat is steadily positioned and secured. The weight of the boat needs to rest on the keel.
- Protect the areas of the hull and deck being supported with some form of padding.
- Keep the engines in a downward position.

6 Operation

The boat owner must take local and international regulations into consideration concerning the boat crew, equipment and handling of the boat. In some countries, a driving license or a separate authorization is required for driving the boat. Special regulations may also apply.

Ensure that the anticipated wind and wave conditions do not exceed the design category of the boat, and that the crew is able to handle the boat in these conditions. Even though the boat is designed for such conditions, they can still be very dangerous. Only a capable, fit and trained crew, using a well maintained boat, can satisfactorily operate in such conditions.

If the boat is fitted with a life raft, carefully read its operation manual. Onboard, the boat must have the appropriate safety equipment according to the boat type and weather conditions. This equipment is compulsory in some countries. The crew must be familiar with the use of all safety equipment and the most important actions in different emergency situations. Sailing schools and clubs regularly organize rescue drills.

The equipment in the boat may differ from the equipment used in the figures in this manual. This might be due to any optional equipment chosen or modifications made after producing this manual. In such cases, contact your local dealer for the operation instructions and additional information regarding the operation of the equipment in question.

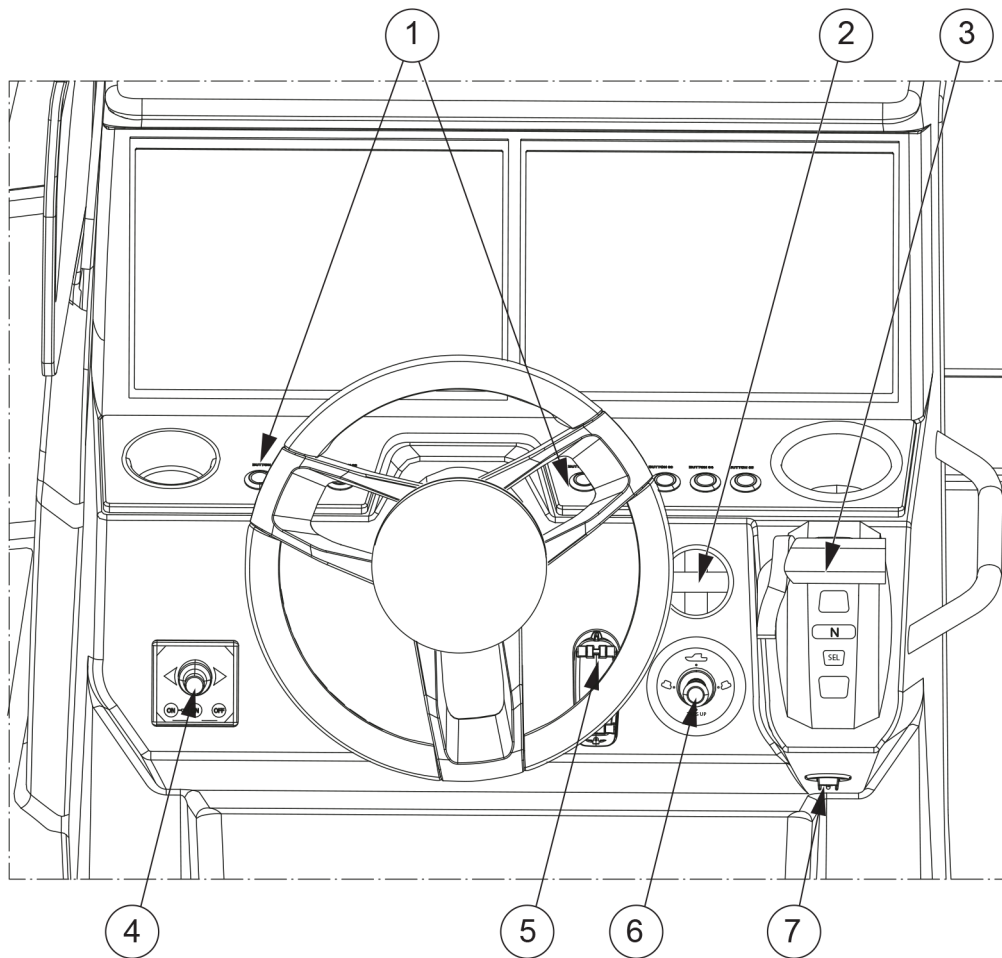
Always maintain the boat properly and make allowance for the deterioration that occurs over time and as a result of heavy use or misuse of the boat. Any boat, no matter how strong it may be, can be severely damaged if not used properly. Inappropriate use of this boat not compatible with safe boating is not allowed. It is always important to adjust the handling of the boat to the sea conditions and own boating experience. The gelcoat parts, especially the colored parts, need to be polished and waxed approximately every fourth months to prevent the parts from fading or getting other visual defects.

6.1 Handling devices

6.1.1 Steering console

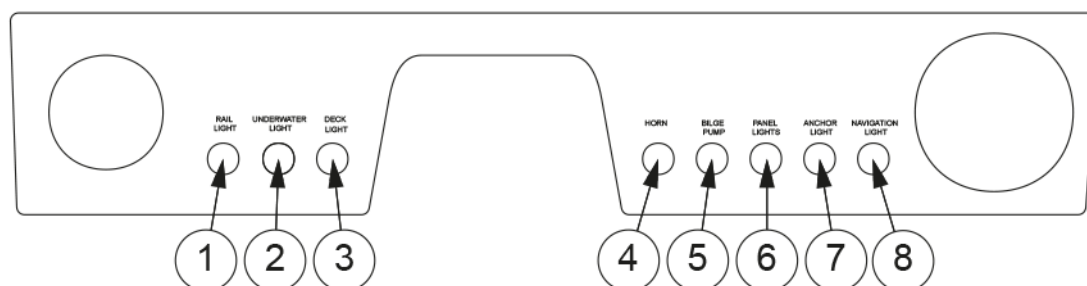
The controllers are situated so that the driver can easily manage them from the steering console.

The location and quantity of the devices depend on what optional equipment and motor models have been chosen. See the device manuals for further information on the devices.



- (1) Steering console switch panel
- (2) Audio system remote control
- (3) Motor remote control
- (4) Bow thruster control
- (5) USB charging port
- (6) Trim tabs joystick
- (7) Laynard stop switch

6.1.2 Steering console switch panel



- | | |
|-----|------------------|
| (1) | Rail light |
| (2) | Underwater light |
| (3) | Deck light |
| (4) | Horn |
| (5) | Bilge pump |
| (6) | Panel lights |
| (7) | Anchor light |
| (8) | Navigation light |

6.1.3 Steering system

The steering system is one of the most vital systems related to safe boating.

The boats are equipped with a hydraulic steering system with the alternatives of power steering and non-power steering systems. Please refer to the collateral manuals provided by the outboard motor and steering system manufacturer included in the manual package provided with the boat.

The non-power steering system consists of a steering wheel, a helm pump, a hydraulic hosing, and a hydraulic steering cylinder.

The power steering system includes a steering pump to help with the handling of the vessel.

6.1.3.1 Checking and topping up oil

Effective and properly working steering is crucial for the safety of the boat.

- Check the oil level in the pump before casting off.
- For detailed instructions and the steering system oil recommendation, see the manufacturer's documentation.

6.1.3.2 Steering maintenance

For the regular maintenance of the steering system components, please refer to supplier's manual.

If you encounter issues beyond regular maintenance needs, please contact your boat dealer immediately for service.

6.1.4 Starting

1. Turn on the motor system (Evoy) main switch and the service battery main switch.
2. Enter the pin code in main screen, if it is required.
3. Wait for the motor systems (Evoy) to activate and for the display of motor and battery information on the main screen.
4. Check that the dead man's switch is connected properly to the boat.
5. Check that electric motor lever is in neutral position and neutral indicator lamp light is steady green. Now motor is ready.



Motor does not make any sound while starting.

WARNING

Never step onto the swim ladder when the motor is running. Stop the motor when the steering and propeller are being inspected.

WARNING

Do not operate this boat with a motor that exceeds the maximum motor power recommended by the manufacturer.

6.1.4.1 Electric motor lever

The electromechanical lever is used to control the motor's RPM and shift which affects the speed of the boat.

For detailed guidelines about safe boating and component maintenance, please refer to the provided outboard motor literature.



If you encounter issues beyond regular maintenance needs, or if noticeable failures occur, please contact your boat dealer immediately for service.

WARNING

Always make sure no one is close to the propeller when engaging the propeller. Acknowledge the information provided on the helm's warning labels.

Use of lever

The lever has three modes: normal drive, trolling mode and disabled. All modes are selected with the **N** button.

- To engage the motor's forward gear and propel the boat forward, push the lever forward.
- To reverse the direction of the boat, pull the lever back.

Adjusting the lever further in one direction increases the boat's speed.

To engage/disable throttle:

1. Move the control lever to the neutral position. Neutral indicator lamp will light steady green.
2. Press the **N** button. Neutral indicator lamp will flash green to indicate that throttle is disabled.

To engage/disengage Trolling Mode:

1. Move the control lever to the forward idle or reverse idle position.
2. Press the **N** button. The lamp will flash green slowly to indicate that trolling mode is engaged.

⚠ **WARNING**

Always make sure no one is close to the propeller when engaging the propeller. Acknowledge the information provided on the helm's warning labels.

⚠ **WARNING**

Never step onto the swim ladder when the motor is running. Stop the motor while the steering and propeller are being inspected.

⚠ **WARNING**

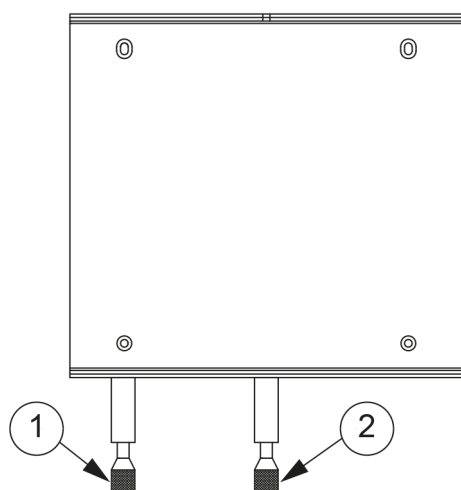
Do not operate this boat with a motor that exceeds the maximum motor power recommended by the manufacturer.

6.2 Swivel seat - Driver and passenger seats

The driver and passenger seats are operated with locking handles.

⚠ **DANGER**

The locking handles must be in the locked position before the boat speed exceed 5 knots.



- (1) Rotation locking handle
- (2) Moving locking handle

- For the rotating function, press the locking handle down to release the lock.
This allows you to rotate the seat on the post.
- For the moving function, lift the locking handle up to release the lock.
This allows you to move seat from back to front.

6.3 Inspecting the boat

Due to safety reasons, the below listed inspections must be carried out before and after using the boat.

6.3.1 Checklist: Regular inspection before leaving harbor

Safety

Make sure that:

- All the people onboard have life jackets.
- The wind and wave conditions do not exceed the design category of the boat.
- The dead man's switch is switched to driver.
- There is a fire extinguisher (or several) onboard and their approval/inspection date has not expired.
- The needed ropes and anchor are onboard.

Draining and tightness

Check that:

- There is no water in the bilge.
- All the bilge pumps are functional.
- The bilge has no signs of cooling liquid leaks.
- All deck hatches are tightly closed.

Electrical and motor

Check that:

- All the fuses are intact.
- The main switches are switched on.
- The batteries have enough power.
- The motor works properly.
- The motor cooling water flows as expected

6.3.2 Checklist: After using the boat

Make sure that:

- The main switches are switched off.
- The septic tank discharge valve is closed.

- There is no water in the bilge.
- The bilge pumps are functional.
- The deck draining works properly and all the draining valves are open.
- All deck hatches, roof canvas and doors are tightly closed.

6.4 Handling the boat

6.4.1 Checklist: Boat handling before leaving harbor

For safe navigation under all weather conditions, proper sound signaling equipment in compliance with regulations (COLREG, 1972) must be carried on board. Make sure that the sound signaling equipment on the boat is compliant with these regulations.

CAUTION

According to national regulations in some countries, it is a legal requirement to wear a life vest at all times.

- Check that the boat and its equipment are in seaworthy condition.
- Always listen to long-term weather forecasts when planning longer trips.
- Always make sure there is enough freshwater in the tanks.
- Always make sure that the charging level of the battery is adequate for the whole trip. When the charging level of the battery decreases, so does the available power. You should reserve at least 20% extra for a trip.
- Check that all items on board are properly stowed and adequately secured to manage rough sea and wind conditions.
- Make sure that the swim ladder is raised out of the water before moving off.
- Make sure that the steering is correctly positioned before starting.
- All persons on board must wear an appropriate life vest when on deck.

6.4.2 Leaving the jetty

Before casting off, consider how to best leave the jetty.

- Check what the wind direction is.
- If the boat has two motors, move away from the jetty by engaging the motor nearer the jetty astern at idling speed and engaging the other motor ahead at idling speed on.
- The boat will swing out from the jetty astern. As the bow will move against the jetty, fend off properly.

With only one motor this can be a little more challenging, especially if the wind is pressing the boat firmly against the jetty, you have to use a spring to get the stern out.

- Firmly fend off the bow from the jetty.
- Take a line from the bow around a bollard or cleat, so that it can be easily let go.

- Engage idling speed ahead and turn the rudder so that the stern glides out from the jetty.
- When the boat has reached a position, where it can safely be reversed, release and retrieve the line, quickly center the rudder and engage astern.

⚠ CAUTION

Gather in all lines and fenders while you are still in sheltered water. A rope around the propeller can disable a boat.

6.4.3 Driving the boat

Going out in a motor boat involves responsibility not just to those on board, but also to others we meet on the water. Showing consideration for others makes boating comfortable. Everyone has the same right to be at sea, whatever kind of boat they go afloat in.

The physical laws that apply to a boat are rather different from, for example, those affecting a car, as are the possibilities of controlling it.

You can influence a boat's behavior and the level of comfort on board primarily by adapting the speed to the prevailing sea conditions and by the intelligent use of the trim tabs. A planing boat rides almost level in the water at maximum speed. As the speed of the boat is reduced the trim angle increases and the bow rises slightly. This is normal, and is a prerequisite for good performance.

6.4.3.1 Dead man's switch

If the boat is equipped with a dead man's switch, attach its lanyard to yourself immediately after detaching the mooring lines. For more detailed instructions, see the motor manual.

It is very important that the boat stops if you for some reason fall overboard or stumble on board, particularly if you are alone. However, remember to detach the lanyard from your wrist before docking or beaching operations to prevent the motor from stopping unintentionally.

6.4.3.2 Driving at high speed

Although the boats have passed the CE requirements for swerve tests at full speed, Axopar Boats does not recommend making sharp turns at high speed. When exceeding a certain speed limit any hull construction might lose its grip. This might lead to passengers hurtling out of the boat, especially in a single motor configuration.

- Do not use the boat if it has an motor with a higher power rating than indicated on the capacity plate.
- Do not drive the boat at high speed if the motor's rig angle is negative (bow down).
- Do not drive at full speed on congested waterways or if the visibility is limited because of weather conditions or waves.
- Reduce your speed and wake as a matter of courtesy, and also for the safety of yourself and others.
- Observe and obey speed limits and prohibitions associated with a swell.
- Follow the rules of navigation and the requirements of COLREG (Convention on the International Regulations for Preventing Collisions at Sea).
- Always make sure that you have the space needed for avoiding collisions and coming to a halt and for evasive maneuvers.

- Always use a dead man's switch if available.
- Reduce speed in high seas for increased comfort and safety.
- Learn the boat's speed potential. Utilize this knowledge for economical and safe cruising.
- Avoid using high speed along with large rudder movements when going astern, because that places great strain on the rudder and steering mechanism.
- Avoid sudden steering maneuvers at high speeds.
- Avoid staying in the bow area when driving at high speeds.

Avoid sudden changes in travel direction at high speed. Let the boat come to a stop, and the motor rev down before shifting between forward and reverse. Otherwise excessive strain is put on the motor, which could cause the motor to stop. In the worst case, sea water may enter the motor.

A right-handed propeller rotates clockwise and a left-handed propeller anti-clockwise, seen from the stern. The rotation of the propeller is critical for steering the boat. The right-handed propeller pushes the stern of the boat to starboard when the motor is engaged ahead and to port when it is going astern. The direction of rotation of the propeller has a major impact on the turning radius. A right-handed propeller gives a smaller turning radius to port than to starboard. This is called the propeller's paddlewheel effect.

The boat's propellers have considerable propulsion power that provides powerful acceleration. Take this into consideration to avoid dangerous situations arising from this.

DANGER

A revolving propeller is life-threatening to a swimmer or a person who has fallen overboard.

Use the dead man's switch and turn off the motor when someone is climbing on board.

6.4.3.3 Driving in rough seas

Never go out in rough seas, if you are uncertain whether the boat and those on board can cope. Follow these simple rules.

- Be well prepared.
- Remember to secure loose equipment.
- Always have a sea anchor and other emergency equipment easily accessible.
- Avoid breaking seas that can appear close to land and over shallows.
- If there are significant waves, always reduce speed to guarantee the safety of the persons on board.
- Use the trim tab to trim the bow down to reduce hull slamming in a head sea.

In a head sea

- Adjust speed to suit the size of the waves.
- Adjust the trim angle to the size of the waves. Avoid taking seas beam on.

In a following sea

Remember to keep the bow high in a following sea. Avoid crashing through waves, maintain low speed. If necessary, deploy the sea anchor to reduce speed.

Planing boats can be particularly exposed in rough following seas. The stern of the boat rises and the rudder does not answer, so the boat broaches while the bow cuts down into the sea.

6.4.3.4 Maneuvering in narrow channels

When maneuvering the boat in narrow channels, the motor speed must be kept as low as possible so that maneuvers are calm and steady.

In difficult wind and current conditions, more revs might be necessary to make full use of the power of the motor. In these conditions, it is important that maneuvers are made quickly and precisely to prevent the boat from drifting into trouble for example.

A good rule before starting a maneuver under difficult conditions, is to think through the different situations which could arise. Pay attention to the wind and current conditions and decide in advance which maneuver you will make. It is also important to brief crew members on what they need to do in different situations.

Always keep in mind that the stability of the boat may be reduced when towing.

CAUTION

Even a nonslip molding can be slippery to walk on when the deck is wet.

6.4.4 Visibility from steering position

The International Regulations for Preventing Collisions at Sea (COLREG) demand that a proper lookout is kept at all times, and the *right of way* rule is followed.

The following factors can considerably reduce visibility, among other things:

- Gear trim angle
- Trim tab angle
- Load and load position
- Speed
- Rapid acceleration
- Changeover from displacement speed to planing
- Sea conditions
- Rain and thunderstorms
- Darkness and fog
- Inner lighting when under way in the dark
- Position of curtains
- People and equipment that block the driver's view.

WARNING

Make only small adjustments at a time. Holding down the button for the trim tab for any length of time can result in partial loss of control of the boat.

6.4.5 Using the trim tabs

A boat does not need trim tabs to get up on the plane or to give good performance. However, trim tabs are a very useful aid when used correctly.

There are two situations in particular where the trim tabs need to be used:

- When it is desirable to trim the bow down in a rising sea and at speeds between going up planing and cruising speed.
- When running with a strong beam wind.

A planing boat always leans into a strong side wind. This reduces the boat's seakeeping qualities, which is why listing to one side needs to be eliminated as far as possible. Lowering the trim tab on the windward side brings the boat back into normal attitude.

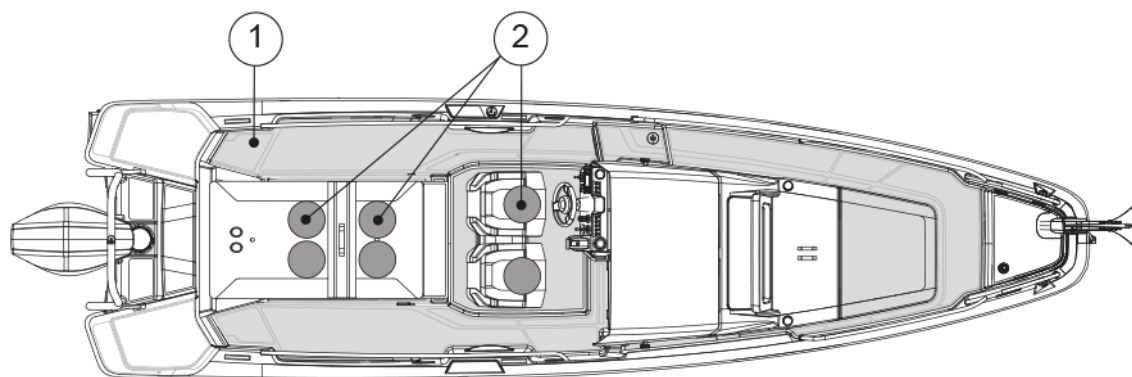
For trimming the bow down, both trim tabs are used in parallel. Begin by retracting both trim tabs completely, then lower both of them a little at a time, so that you retain complete control over how the boat is affected. When running with a following sea, both trim tabs always need to be fully raised. The reason for this is that boats have a tendency to "dive" in a strong following sea, which can result in uncontrollable slowing. Therefore you must run the boat with a high bow angle in a following sea.

6.5 Preventing falling overboard

The boat's working decks are areas where people can move about when the boat is being maneuvered.

The working deck area is shown in grey in the figure.

With multistorage compartment



- (1) Working deck area
- (2) Seats

Do not sit, stand or spend time in other parts of the boat while the boat is under way.

Moving about in the aft part of the aft deck and on the front deck while the boat is under way is not recommended.

If a person has fallen into the water, the easiest way to get back on board is to use the swim ladder. The ladder can be pulled down also from the water.

Staying on deck

⚠ WARNING

Staying in the bow of the boat is not recommended in speeds exceeding 30 knots.

⚠ DANGER

A revolving propeller is life-threatening to a swimmer or a person who has fallen overboard.

- Use the dead man's switch.
- Turn off the motor when someone is climbing on board.



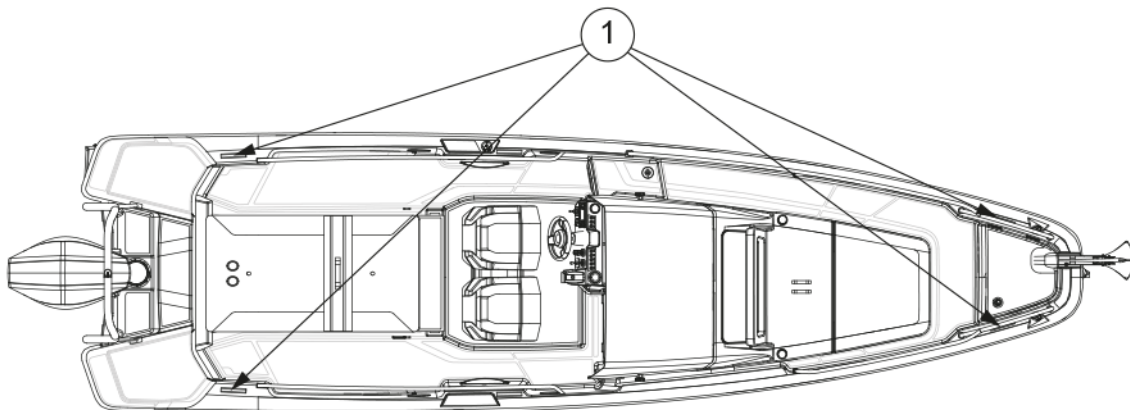
If the sun deck cushions or the front deck table are in place, observe the maximum speed of 15 knots to avoid the cushions or table detaching at speed or in high waves.

6.6 Anchoring, docking and mooring

6.6.1 Fastening points

Fastening points (or cleats) are located both at the stern, midship and bow.

- When anchoring or towing, the forward force is 24.9 kN.
- When mooring the forward force is 20.4 kN.
- When mooring the rearward force is 17.4 kN.



(1) Fastening points

6.6.2 Docking

Always brief your crew how you are planning to dock. Fenders and at least one mooring line fore and aft must be in place before approaching the jetty.

It is always easiest to dock against the wind. Try to hold the bow exactly into the wind and maintain sufficient speed for the boat to answer the rudder. If the bow is blown off in one direction, back out and repeat the maneuver. Bring the bow up to the jetty, and make sure you get a line ashore quickly.

Docking with a side wind is a little more difficult. Do not steer parallel to the jetty letting the boat blow in as there is always a risk of the bow being blown off towards other boats or the jetty. Instead, try to maneuver the boat so that the wind comes directly from astern. Then the boat can be maneuvered straight ahead since the wind helps hold the boat on a straight course. It is good to have someone on the foredeck that can go ashore and quickly turn the bow in the desired direction after the boat has stopped completely.

Try to always avoid sharp movements of the throttle, since idling speed in ahead and astern is generally adequate. Sharp movements of the throttle can lead to panic maneuvers.

⚠ CAUTION

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

6.6.3 Checklist: Before anchoring

1. Check the chart to see if anchoring is permitted in the area.
2. Listen to the weather forecast for the area and take note of the expected wind conditions.
3. Switch on the echo sounder.
4. Study the seabed conditions and make sure that there is good holding ground.
5. Check that the safety chain has been released from the anchor.
6. Wait until you have reached the intended anchoring point before lowering the anchor.
7. Let out the anchor line equal to at least three times the depth of the water.
8. Put the motor in astern to check that the anchor has taken hold (only when bow anchoring).
9. Note your position on the GPS. Regularly check that the boat has not moved from its position.
10. Set the echo sounder to "Anchor Watch".

⚠ WARNING

Always fix the anchor in such a way that it is securely fastened onto the boat. An anchor that falls off when under way may cause serious damage to the boat and mortal danger to the crew.

6.6.4 Towing and mooring

⚠ CAUTION

When towing another boat or being towed, always drive slowly. If the boat you are towing is of the displacement hull type, never exceed its hull speed.

- Always attach the tow line so that it can be detached under load. It is the owner's and users' responsibility to ensure that the mooring lines, towing lines, anchor chains, anchor lines and anchors are adequate for the vessel's intended use.
- Always remember that the stability of the boat may decrease when being towed.

7 Maintenance

7.1 Cleaning and maintaining the gelcoat surface

The gelcoat surface of the boat is subjected to environmental conditions which can, under certain circumstances, lead to deterioration of the surface. Overtime, these external factors such as saltwater, high UV exposure and temperature variation, can have an effect on the gelcoat surface.

Generally, gelcoat should last 3 years without showing any significant signs of yellowing, chalking, or other deterioration in typical conditions.

NOTICE

Clean and maintain regularly all the gelcoat surfaces on the boat.

If the regular cleaning and maintenance is neglected, or if the boat is exposed to certain environmental conditions where it is berthed, deterioration of the surface finish such as fading, discoloration and brittles may become visible over time.

- Wash and clean the boat after every trip, and weekly if it is stored outside uncovered.
- Wax the boat twice a year if used all year, otherwise annually.
- Inspect the gelcoat surface annually for signs of deterioration, such as brittle surfaces or changed color tones.
- Small scratches or discolorations can be fixed by buffing or polishing.
- Severe scratches, discoloration or oxidation may require wet sanding before buffing, polishing and waxing.

Wet sanding is recommended to be performed by your Axopar dealer or a trained professional.

- When the boat is not in use, keep the gelcoat surface out of the sun or cover the boat with a canvas tarpaulin.

Do not use plastic or other non-porous materials, which can trap moisture between the cover and the surface.

Washing

NOTICE

Use a cleaning product specially made for boats. Do not use household cleaning products, chlorine, acids or similar as they may damage the boat surface due to their improper pH value.

Wash the boat after every trip by using a mild cleaning product. Dilute the cleaning product with fresh water according to the instructions on the product label.

1. Rinse the deck and hull with fresh water to remove loose dirt.
2. Wash the surfaces with the diluted cleaning product and a soft-bristled brush.
3. Rinse off with fresh water.

Waxing

Waxing the gelcoat surface restores gloss and protects the finish. Only use wax recommended for gelcoat, and follow the product instructions carefully.

Wax can either be applied by hand using a clean rag, or with an orbital-motion buffing machine.

NOTICE

If using a buffing machine, do not exceed the speed of 1200 rpm. Using a higher speed may burn the gelcoat.

NOTICE

Do not wax a gelcoat surface in direct sunlight.

1. Apply wax and wait for a few minutes until the wax looks dry.
2. Buff the wax either by hand using a clean rag, or by using a buffing machine.
Buff in circular motions until the surface is clean and glossy.
3. Finish by wiping the potential wax residues off with a clean rag.

Polishing and buffing

Small scratches or discolorations can be fixed by polishing and buffing the boat. If the surface has severe discoloration or oxidation, wet sanding is recommended before polishing and buffing.

- Polishing compounds remove small scratches and discolorations.
- Buffing compounds contain abrasive and remove deeper scratches or oxidation.
Buffing compounds can be used, for example, to remove scratches on the hull caused by the fenders.
- After using the buffing compound, use polishing compound to achieve the best possible finish.
- Follow the product instructions of the compound carefully.

Polishing and buffing compounds can either be applied by hand using a clean rag, or with an orbital-motion buffing machine with a polishing pad.

NOTICE

When using a buffing machine, do not exceed the speed of 1200 rpm. Using a higher speed may burn the gelcoat.

NOTICE

Do not polish or buff a gelcoat surface in direct sunlight.

1. Apply polishing or buffing compound on the surface and wait for a few minutes until the compound looks dry.
2. Polish or buff the compound either by hand using a clean rag, or by using a buffing machine with a polishing pad.
Buff in circular motions until the surface is glossy.
3. Wax the surface.

Wet sanding**NOTICE**

Wet sanding is recommended to be performed by your Axopar dealer or a trained professional.

Severe scratches, discoloration or oxidation of the gelcoat surface may require wet sanding. Wet sanding can be done either by hand or by using a machine.

NOTICE

When using a machine, do not exceed the speed of 1200 rpm.

Using a higher speed may burn the gelcoat.

NOTICE

Do not wet sand a gelcoat surface in direct sunlight.

1. Spray water to the area that needs to be sanded.

NOTICE

Keep the surface continuously moist while sanding.

2. Sand the surface with a 1000 grit sandpaper (for example Mirka Abralon).
If you use a machine, use a low rpm speed to get the best result.
Keep sanding until the entire surface is equally matt.
3. Sand the surface with a finer 1400 grit sandpaper.
4. Sand the surface once more with an even finer-grit sandpaper.
This saves time in the buffing and polishing stage.
5. After sanding, when the surface looks equally matt, rinse the surface with fresh water and allow to dry.
6. Buff and polish the surface to get the gloss back.
7. Wax the surface.

7.2 Antifouling

Painting your boat's hull with antifouling paint is worth considering if your boat is most of the season in water.

Boats that are frequently lifted out of the water and relaunched during the boating season can be affected by antifouling oxidization. Out-of-the water, antifouling paint will oxidize, which will prevent the biocide release and slowly cause antifouling to lose its effectiveness. Follow the paint manufacturer's specifications for launching window.

Antifouling wears gradually over time, depending on factors such as the location where the boat is used and how often the boat is used. As a rule of thumb, antifouling lasts one season once applied. When the antifouling needs to be repainted, it is important to use the same antifouling paint as the existing antifoul, or to scrub off old antifouling paint down to gel coat. If different antifouling paints are used, there is a risk that the composition of the paints are incompatible, preventing the antifouling paint from working.

Contact your nearest Axopar dealer in antifouling repainting and condition inspection related matters.

7.3 Maintaining the interiors

7.3.1 Plastic and painted surfaces

1. Wet the surface evenly with water before the actual cleaning.
2. Remove stains.
 - Remove regular stains with a brush and a lightly diluted cleaner.
 - Remove grease with a brush or a sponge and window cleaner.
3. Clean the surface afterwards with sponge and water.
4. Wipe dry with a piece of cloth.

7.3.2 Doors and hatches

- Clean the tracks of sliding doors and hatches regularly and lubricate, if necessary.
- Lubricate handles and locks with regular lock lubricant.

7.4 Maintaining the cover



New covers may leak initially, as the seams need to swell.

During use

To prevent quick deterioration of the cover, secure it tightly in a folded-up position to prevent flapping.

After use

NOTICE

- Hang to dry. Never use a drying cabinet or iron to speed up drying.
- Check that the cover is completely dry before stowing. Stowing a moist cover can cause mold damage.
- Store the cover in dry indoor conditions for the winter.
- The cover must not be stored in the boat.

7.4.1 Cleaning the cover

The cover needs to be thoroughly cleaned two or three times a year.

NOTICE

Never use high pressure washers or chemical cleaning agents.

1. Let the fabric cover soak for at least 24 hours.
2. After soaking, wash the inside and outside of the cover with a sponge or a soft brush.
Use mild soapy water and plenty of water, max. 30°C.
3. Rinse thoroughly with freshwater.
Mix 12% vinegar in the final rinsing water to neutralize the soap residues.
4. Hang the cover to drip dry.

7.5 Protecting underwater metal parts

Boat's underwater metal components, such as thru-hulls, seacocks, trim tabs, motor internal components and propellers, are subject to electrolytic corrosion. Electrolysis and galvanic corrosion (corrosion of dissimilar metals in salt water) can occur in marine environment due to external factors such as stray currents, polluted waters, or proximity of other vessels. It is important for boat owner to be aware of the phenomena, as they can cause serious deterioration over time.

Signs of electrolytic corrosion are, for example, white, powdery substance on exposed metal such as propellers or breakers, or thru-hulls and seacocks turning greenish. If the corrosion has progressed far, even deep pitting can appear on the part's surface.

The boats are equipped with sacrificial anodes to protect the metal parts from galvanic corrosion. Additionally, boats equipped with shore power have galvanic isolators to stop low voltage currents from flowing through the boat.

All underwater metal parts need to be inspected annually for signs of corrosion. Additionally, underwater thru-hulls and seacocks are recommended to be replaced every 5 years. Please refer to chapter **Preventing corrosion** for more details.

7.6 Preventing corrosion

Sacrificial anodes are installed on the boat's trim tabs and motors to protect metallic parts from corrosion damage. The anodes need to be replaced regularly as they wear out to protect other metallic parts.

- Inspect the anodes monthly.
- Replace them when approximately fifty percent of the anode has deteriorated.

In general, anodes need replacement once a year in fresh water, and more frequently in saltwater environment. If there is an increase in the consumption speed, it can be a sign of electrical issue and the root cause should be investigated.

7.7 Preventing frost damage

- The bilge pump system is fitted with a water lock on the hose.
 - Detach the hose and fully drain the water from the water lock and run the pumps dry. Otherwise the pumps may freeze and break.
- Unscrew the frost plug on the underside of the shower fittings.
 - If there is no frost plug, unscrew the shower hose.
- Drain the water tank and all other components containing water in order to avoid frost damage.

- Run the freshwater pump dry to drain out all the water.
- Make sure that no water remains in the boat under any circumstances. Leave the hatches in the cabin partially open.

7.8 Checklist: Before winter lay-up

- Wash the hull and bottom immediately after lifting the vessel out of the water.
- Wash all parts inside, also under the floorboards.
- Leave all lockers, drawers, and cabin and wardrobe doors open.
- Remove the carpets.
 - Store the carpets and cushions indoors in a dry place.
 - If this is not possible, make sure that the cushions are dry and position them on their side.
- Disconnect and service the fridge.
 - Switch off the power and disconnect the power supply.
 - Defrost the fridge.
 - Clean and dry the exterior and the interior of the fridge.
 - Empty and dry the condensate water tray.
 - Leave the door slightly ajar to enable ventilation.
 - Check the more detailed instruction in the manufacturer's manual.
- Ensure good ventilation in the boat.

NOTICE

If the 12V batteries are left aboard, make sure they are fully charged, otherwise the batteries can freeze and crack.

7.8.1 High voltage battery

- Because there is a high voltage battery in the boat, you should store it in a protected and temperate environment (0-25°C).
- To prevent battery depletion and damage, keep the main battery at a 30% charge level with the service disconnect device removed.
- For short-term storage, charge the 12V battery and disengage the main switch.
- For long-term storage, disconnect the 12V battery.
- Do not store the boat in temperatures below -40°C or above 55°C, and keep it away from heat sources.
- If the boat is exposed to sub-zero temperatures, the seawater circuit must be flushed.
- For detailed information about high voltage battery and storing, see the motor manual.

7.9 Checklist: Before launching

1. Remove the tarpaulin in good time before launching.
2. Wash the hull with a regular shampoo and a soft brush.
3. Wax the hull, if necessary.
Use a standard boat wax.
4. If there are small scratches on the hull or if some of the surface gelcoat has lost its shine, use a rubbing compound on these areas before polishing.
5. Paint the bottom with antifouling paint.
6. If the batteries have been removed, put them back and check the electrolyte level in the cells.
Check the condition of the batteries.
7. Check all cables, clamps, motor mountings and other fastenings.
8. Check the steering before launching.
9. Check the instrumentation.
10. Close all water drain plugs.
11. Check that the seacocks are tight and in order, check for any frost damage.
12. Check all pipes, hoses and cocks.
13. Make a note of any frost damage.

7.10 Corrective maintenance

7.10.1 Deposits

Mild detergents and fine rubbing compounds reduce the weathering and calcium deposits accumulated on the surfaces.

NOTICE

Do not apply the rubbing compound in direct sunlight.

- Use only a fine grit compound, and follow the label instructions carefully.
- For the best result, wax the surface after treating it with the rubbing compound.

7.10.2 Scratches and nicks

Most scratches and nicks can be removed by using a rubbing compound followed by waxing.

7.10.3 Stains

Most stains can be removed by washing with a mild detergent.

- For stubborn stains, use a fine abrasive household cleanser followed by waxing to restore original luster.
- For non-water-soluble stains, such as grease, oil, and rubber heel marks, use a solvent such as acetone, rubbing alcohol, toluene or xylene, followed by a mild detergent.
 - If these solvents are not effective, try a rubbing compound or fine sanding followed by waxing.

7.10.4 Deep marks, gouges and holes

Deep marks, gouges and holes should be repaired professionally.

Gelcoats can be well repaired by professionals, and in most cases the repair will be undetectable.

NOTICE

In cases where the damage has pierced the gelcoat layer, further exposure to water or chemicals should be avoided.

Failure to observe this precaution may result in extensive and potentially costly damage to the underlying laminate structure.

8 Environment

When handling environmentally hazardous substances such as fuel, oils, solvents, grease, bottom coats, you need to consider the following:

- Always read the instructions for each product carefully and handle the product with care.
 - Make sure that the used packaging, cans and similar items are discarded in designated collection points.
 - If you are in any doubt whether the product is hazardous or not, contact the supplier or vendor of the product.
- The backwash from boats wears down the shoreline and creates problems for other boats near you.
 - Always adjust your speed to the situation and the surroundings to avoid unnecessary backwash.
- Always drive the boat at the most economical motor revs possible, taking the prevailing conditions into account, to avoid unnecessary emissions and noise.
- Make sure that the motor is properly serviced at regular intervals so that noise and emission levels are minimized.
 - Read the motor manufacturer's manual carefully.
- As a boat owner you must be aware of the local environmental laws, and respect codes of good practice.
 - Never empty the septic or blackwater tank into water.
 - Familiarize yourself with the international regulations on the prevention of marine pollution (MARPOL) and comply with these regulations.
- Always investigate the source of any oil leaks as soon as possible.
- Dispose of recovered spilt oil correctly.
- Keep oil-absorbing cloths or rolls on board.
- Never dispose of overboard any oil, paint or other chemical that is potentially harmful to the environment. Sanctions are in place in most parts of the world for those who disregard this rule!

⚠ WARNING

Any oil must be treated as chemical waste.

8.1 Requirements for North America

The EPA standards state that in freshwater lakes, freshwater reservoirs or other freshwater impoundments whose inlets or outlets are such as to prevent the ingress or egress by vessel traffic subject to this regulation, or in rivers not capable of navigation by interstate vessel traffic subject to this regulation, marine sanitation devices certified by the U.S. Coast Guard installed on all vessels shall be designed and operated to prevent the overboard discharge of sewage, treated or untreated, or of any waste derived from sewage.

The EPA standards further state that this shall not be construed to prohibit the carriage of Coast Guard-certified flow-through treatment devices which have been secured so as to prevent such discharges. They also state that waters where a Coast Guard-certified marine sanitation device permitting discharge is allowed include coastal waters and estuaries, the Great Lakes and interconnected waterways,

freshwater lakes and impoundments accessible through locks, and other flowing waters that are navigable interstate by vessels subject to this regulation (40 CFR 140.3).

9 Appendix I: Checklists

9.1 Checklist: Fire in the motor

- Stop the motor.
- Steer the boat up against the wind, if possible.
- Make sure all passengers have life jackets.
- If necessary:
 - Evacuate the passengers.
 - Call for sea rescue.
- Shut off main power switch.
- Extinguish the fire.
- Wait until fully certain that the fire has been extinguished before opening the motor cover.
Carefully open the motor cover and be prepared to use the handheld fire extinguisher if necessary for post-fire extinguishing.
- Put out possible smoldering fires with water.

9.2 Checklist: After fire

- Open doors and windows for better ventilation.
- Inspect the boat and its equipment, and repair any damages.
- Contact local authorities, if needed.
- Make sure that the fire extinguishing equipment is refilled or replaced after use.

9.3 Checklist: After grounding

If the boat hits a rock, the damage may be easily visible or hidden.

- Make sure that everyone on board is wearing a life jacket.
- Check that everyone on board is up on the deck.
- If necessary, make an emergency call or use a distress signaling device.
- Immediately after a capsize, check the bilge for leaks. Even if the bilge pump is not rated for leaks, you may try to empty the boat using it.
- Stop the motors and lift them out of the water.
- Turn off all the main electrical switches.
- If you can detach the boat after a rock slide, check the condition of the motor.
- Inspect the boat for leaks.
- To avoid further damage to the motor, do not drive the boat if, for example, the motor blade is damaged.

- If the leak is small, the boat is detached and at least one of the motors is functioning, drive to the nearest shore to prevent the boat from sinking.
- If a life raft is available and required, prepare it for use.
- If you detect a leak, close all doors and hatches. Open doors and hatches may cause the boat to drown more quickly.
- Do not go inside of the boat if it has a leak.
- Call for towing assistance from local authorities or other agencies.
- A professional should inspect the boat after grounding. Even if there is no visible leak, the hull may be damaged and in need of repair.

⚠ WARNING

A big leak may cause the boat to sink quickly. Do not go or stay in and wear a life jacket.

9.4 Checklist: Regular inspection before leaving harbor

Safety

Make sure that:

- All the people onboard have life jackets.
- The wind and wave conditions do not exceed the design category of the boat.
- The dead man's switch is switched to driver.
- There is a fire extinguisher (or several) onboard and their approval/inspection date has not expired.
- The needed ropes and anchor are onboard.

Draining and tightness

Check that:

- There is no water in the bilge.
- All the bilge pumps are functional.
- The bilge has no signs of cooling liquid leaks.
- All deck hatches are tightly closed.

Electrical and motor

Check that:

- All the fuses are intact.
- The main switches are switched on.
- The batteries have enough power.
- The motor works properly.
- The motor cooling water flows as expected

9.5 Checklist: After using the boat

Make sure that:

- The main switches are switched off.
- The septic tank discharge valve is closed.
- There is no water in the bilge.
- The bilge pumps are functional.
- The deck draining works properly and all the draining valves are open.
- All deck hatches, roof canvas and doors are tightly closed.

9.6 Checklist: Boat handling before leaving harbor

For safe navigation under all weather conditions, proper sound signaling equipment in compliance with regulations (COLREG, 1972) must be carried on board. Make sure that the sound signaling equipment on the boat is compliant with these regulations.

CAUTION

According to national regulations in some countries, it is a legal requirement to wear a life vest at all times.

- Check that the boat and its equipment are in seaworthy condition.
- Always listen to long-term weather forecasts when planning longer trips.
- Always make sure there is enough freshwater in the tanks.
- Always make sure that the charging level of the battery is adequate for the whole trip. When the charging level of the battery decreases, so does the available power. You should reserve at least 20% extra for a trip.
- Check that all items on board are properly stowed and adequately secured to manage rough sea and wind conditions.
- Make sure that the swim ladder is raised out of the water before moving off.
- Make sure that the steering is correctly positioned before starting.
- All persons on board must wear an appropriate life vest when on deck.

9.7 Checklist: Before anchoring

1. Check the chart to see if anchoring is permitted in the area.
2. Listen to the weather forecast for the area and take note of the expected wind conditions.
3. Switch on the echo sounder.
4. Study the seabed conditions and make sure that there is good holding ground.
5. Check that the safety chain has been released from the anchor.
6. Wait until you have reached the intended anchoring point before lowering the anchor.
7. Let out the anchor line equal to at least three times the depth of the water.

8. Put the motor in astern to check that the anchor has taken hold (only when bow anchoring).
9. Note your position on the GPS. Regularly check that the boat has not moved from its position.
10. Set the echo sounder to "Anchor Watch".

⚠ WARNING

Always fix the anchor in such a way that it is securely fastened onto the boat. An anchor that falls off when under way may cause serious damage to the boat and mortal danger to the crew.

9.8 Checklist: Before winter lay-up

- Wash the hull and bottom immediately after lifting the vessel out of the water.
- Wash all parts inside, also under the floorboards.
- Leave all lockers, drawers, and cabin and wardrobe doors open.
- Remove the carpets.
 - Store the carpets and cushions indoors in a dry place.
 - If this is not possible, make sure that the cushions are dry and position them on their side.
- Disconnect and service the fridge.
 - Switch off the power and disconnect the power supply.
 - Defrost the fridge.
 - Clean and dry the exterior and the interior of the fridge.
 - Empty and dry the condensate water tray.
 - Leave the door slightly ajar to enable ventilation.
 - Check the more detailed instruction in the manufacturer's manual.
- Ensure good ventilation in the boat.

NOTICE

If the 12V batteries are left aboard, make sure they are fully charged, otherwise the batteries can freeze and crack.

9.9 Checklist: Before launching

1. Remove the tarpaulin in good time before launching.
2. Wash the hull with a regular shampoo and a soft brush.
3. Wax the hull, if necessary.
Use a standard boat wax.
4. If there are small scratches on the hull or if some of the surface gelcoat has lost its shine, use a rubbing compound on these areas before polishing.
5. Paint the bottom with antifouling paint.
6. If the batteries have been removed, put them back and check the electrolyte level in the cells.
Check the condition of the batteries.

7. Check all cables, clamps, motor mountings and other fastenings.
8. Check the steering before launching.
9. Check the instrumentation.
10. Close all water drain plugs.
11. Check that the seacocks are tight and in order, check for any frost damage.
12. Check all pipes, hoses and cocks.
13. Make a note of any frost damage.

9.10 Maintenance log

Regular maintenance tasks are presented in the following table. If you feel confident enough, you can perform all these tasks yourself. If not, please contact your local Axopar dealer for help.

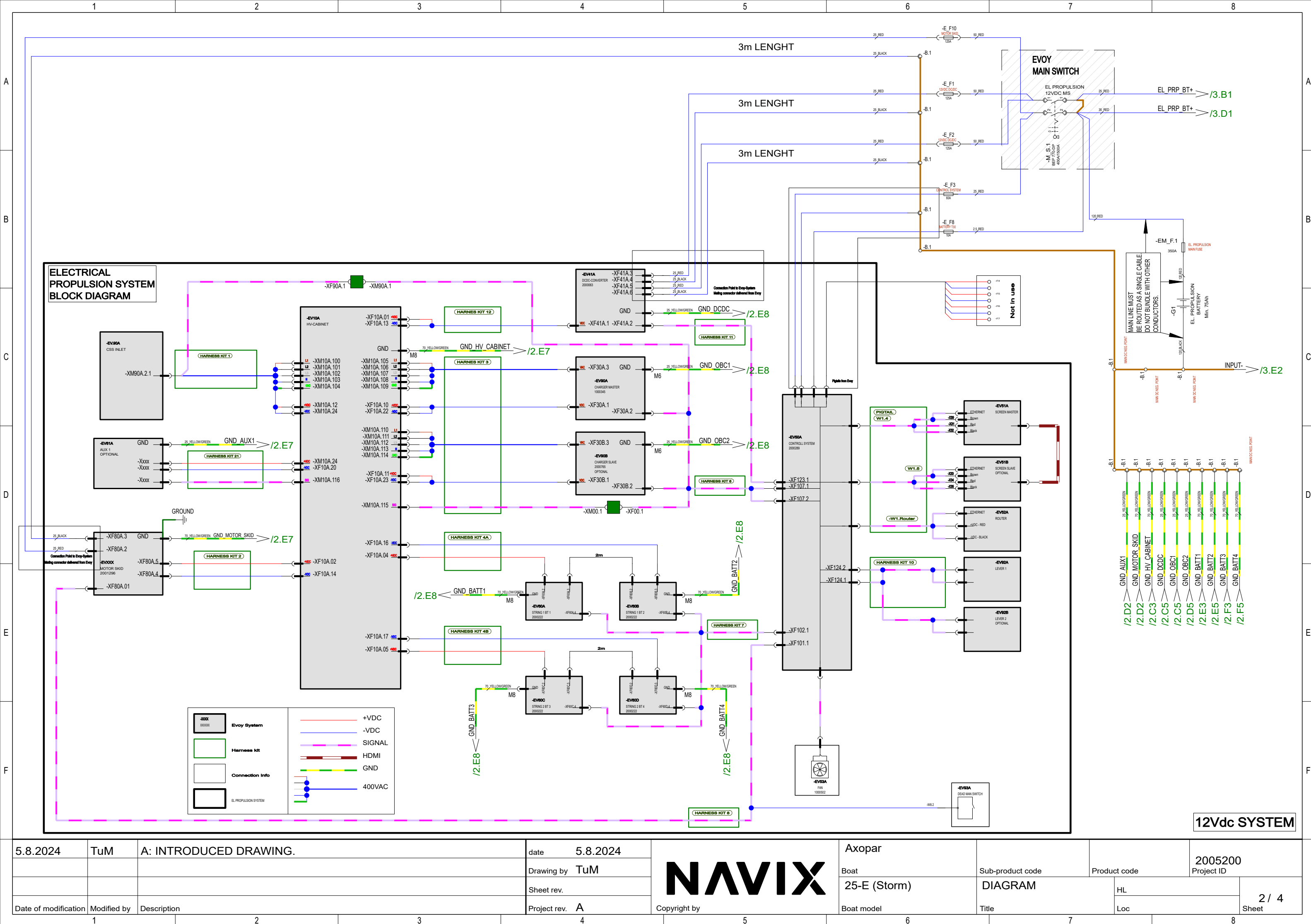


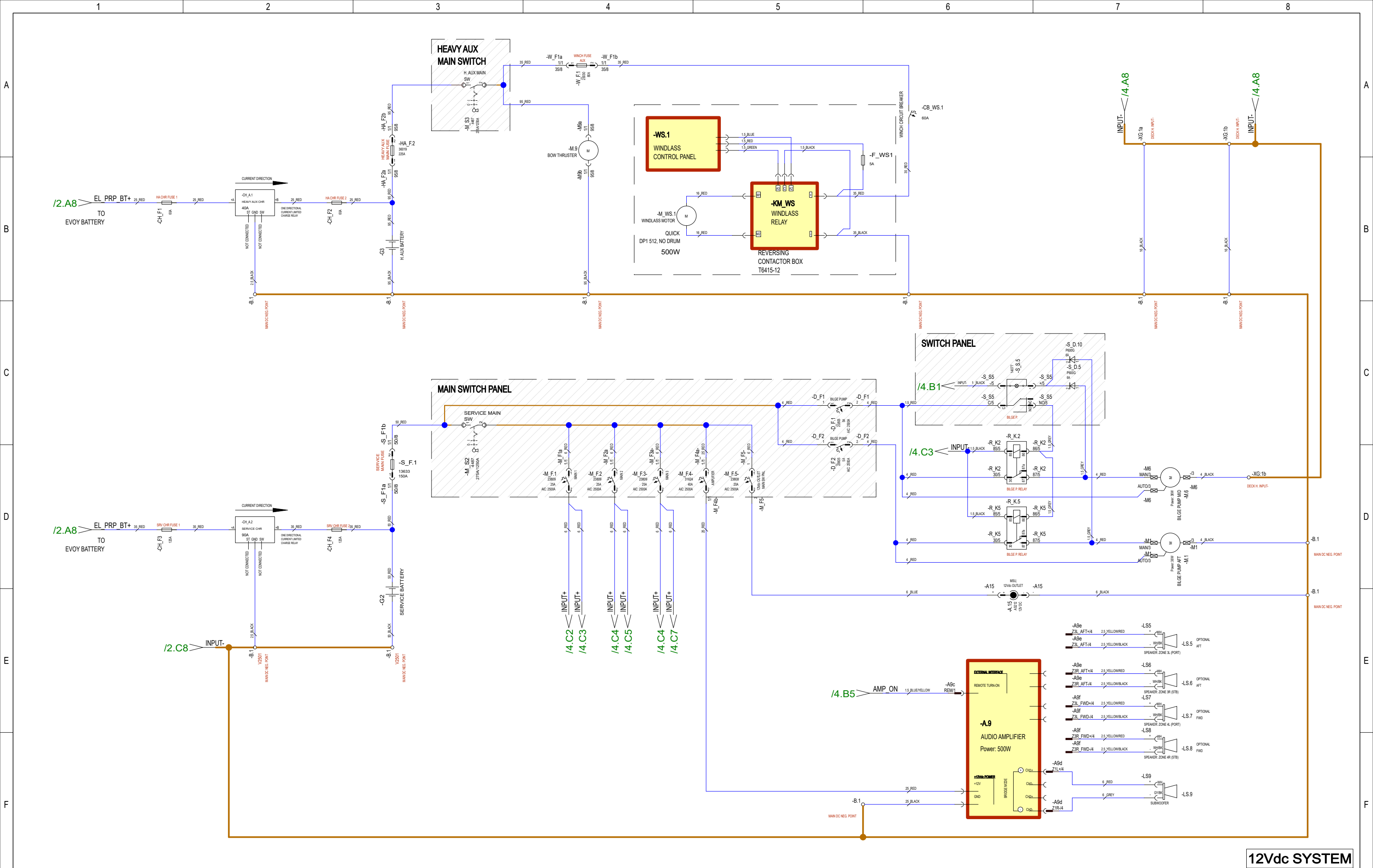
Depending on vessel model and components, every task might not be relevant.

MAINTENANCE LOG	Frequency				
	Every trip	Every month	Every 3 months	Every 6 months	Annually
Bilge system Remove, clean and inspect bilge pump, check valve and its surroundings for damage or debris that may reduce the performance of the pump	●				
Waste system - Replace the no-smell carbon filters					●
Waste system - Run the macerator pump					●
Heating system - Run the heater for 10 minutes		●			
Air conditioning system - Clean air filter, seawater strainer and check the system for leaks		●			
Water system - Clean inline filter			●		
Inspect Zinc anodes Replace all zinc anodes if 50 % has been eaten up				●	
Fire extinguisher inspection					●
CO alarm - Push test button for 1 sec			●		
Smoke alarm - Push test button for 3 sec			●		
Seacocks - Turn handle Open and Close					●
Batteries - Charge state, terminals securely attached and free from corrosion					●
LPG system - Check condition of LPG lines, connectors and LPG shut off valve					●
Fuel system - Check condition of fuel lines, connectors and fuel shutoff valves			●		
Inspect fuel tank compartment bilge for water				●	
Livewell pump - Check condition of hoses and connectors			●		
Gelcoat waxing				●	
Clean hull & deck from saltwater	●				
Keep bilge dry and clean	●				
Boat covers - Clean upholstery covers and sunroof cover				●	

10 Appendix II: Electrical diagrams

	1	2	3	4	5	6	7	8	
A									
B									
C	<div><div><h1>Axopar 25-E Storm</h1><h2>ELECTRICAL DIAGRAM / PRODUCTION DRAWINGS</h2><p>DOCUMENT INCLUDES: ELECTRICAL PROPULSION BLOCK DIAGRAM 12V DC DIAGRAM</p><p>NOTE! ALL CABLE AREAS ARE IN METRIC SYSTEM (mm2). NOTE! ELECTRICAL PROPULSION BLOCK DIAGRAM IS A GENERAL DESCRIPTION OF SYSTEM FOR PRESENTING 12VDC CONNECTIONS TO PROPULSION SYSTEM.</p><h3>REVISION A</h3></div></div>								
D									
E									
F									
<div><div><div>Navix disclaims all liability for any issues that may arise from the use of devices not specified in this documentation. The electrical system design is based exclusively on the devices listed herein, or on the estimated maximum power (or currents)for each circuit when the specific device model was unknown at the time of engineering. Any substitution of devices or the use of devices with higher power (or ampacity) than specified herein voids all warranties and releases Navix from any responsibility for system performance or safety.</div></div></div>									
4.9.2024	TuM	A: INTRODUCED DRAWING.		date 4.9.2024	<div><div>NAVIX</div><div>Copyright by</div></div>	Axopar			2005200
				Drawing by TuM		Boat	Sub-product code	Product code	Project ID
				Sheet rev.		25-E (Storm)	COVER	HL	1/ 4
Date of modification	Modified by	Description		Project rev. A		Boat model	Title	Loc	
1		2	3	4	5	6	7	8	





12Vdc SYSTEM

5.8.2024	TuM	A: INTRODUCED DRAWING.	date 5.8.2024	NAVIX	Axopar	DIAGRAM	2005200 Project ID
			Drawing by TuM		Boat		
			Sheet rev.		25-E (Storm)		
Date of modification	Modified by	Description	Project rev. A		Boat model		
1	2	3	4	5	6	7	8
				Copyright by			3 / 4 Sheet
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NAVIX

11 Appendix III: AIS Decontamination – North America

Table of Contents

1 Decontamination criteria based on UMPS III, Table 3.....	3
2 Example of AIS Owner's Manual Information.....	4
3 Additional boat-specific recommendations.....	6

1 Decontamination criteria based on UMPS III, Table 3

The table is a summary of scientific research indicating the lethal water temperature at point of contact and duration for decontamination. Information is grouped by the location of the boat that is targeted and the life form of Dreissenid mussel targeted (e.g., adult mussel or veliger). Please refer to the *Student Training Curriculum for Watercraft Inspectors and Decontaminators to Prevent and Contain the Spread of Aquatic Invasive Species in the USA* for complete step by step procedures.

	Boat part/ location	Water temperature	Duration ¹⁾ (sec)	Type of application	Target life stage
Exterior	Hull	140°F	10	High pressure spray ²⁾	Adult
	Trailer	140°F	70	Low pressure spray ³⁾	Adult
	PFDs, anchor, paddle	140°F	10	Low pressure spray	Adult or Veliger
Propulsion system	Gimbal	140°F	132	Low pressure spray	Adult
	Engine	140°F ^{5), 6)}	See note ⁷⁾ .	Flush ⁶⁾	Veliger
Interior	Ballast tanks	120°F	130	Low risk – Flush ⁴⁾	Veliger
				High risk – Fill and flush	
	Live well/bait well	120°F	130	Low pressure spray or flush	Veliger
	Bilge	120°F	130	Flush or low pressure spray	Veliger

1) The times listed are the minimum times necessary to achieve mortality.

2) High pressure = 3000 psi.

3) Low pressure = using the pressure from the decontamination unit with no nozzle, not to exceed 60 psi (essentially a garden hose flow).

4) Flush = adding water to a compartment of a boat to treat or force the water out.

5) These temperatures denote the exit temperature (i.e., temperature of water exiting the boat not exiting the wand or flush attachment).

6) When flushing engines with a dedicated connection (not muffs), the pressure should be limited to less than 60 psi to prevent internal engine damage. The maximum input temperature during flushing should not exceed 140°F.

7) NOTE: Engine flushing relies on the exit temperature as a guideline for decontamination duration.

2 Example of AIS Owner's Manual Information

Aquatic invasive species

Aquatic invasive species (AIS) are plants and animals that occur in waters in which they are not native and whose introduction causes or is likely to cause economic or environmental damage or harm to human health. AIS have a negative impact on the waterway, its native species, and recreational and commercial uses of the waterway.

As responsible boaters and citizens, each boat owner should do their part to prevent the spread of these aquatic hitchhikers. In many cases, it is also required by law. Check local regulations for any waterway where you will boat.

After each boating trip, follow these three simple steps before you leave the water access to stop the spread of AIS: Clean, Drain, and Dry. This is the boater's way to help protect the environment from the damage that AIS can cause.



Clean

Inspect and remove all aquatic plants, animals, mud, and debris from the boat, engine, trailer, anchor, and any watersports equipment.

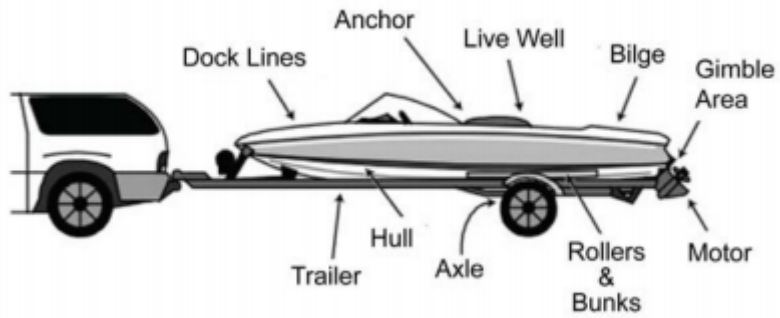
- Rinse, scrub or wash, as appropriate, away from storm drains, ditches, or waterways.
- Rinse watercraft, trailer, and equipment with hot water, when possible.
- Flush motor according to owner's manual.

Drain

Completely drain all water from the boat and its compartments, including but not limited to the bilge, wells, lockers, ballast tanks or bags, bait containers, engines, and outdrives.

Dry

Allow the boat to completely dry before visiting any other bodies of water.



NOTE: Some localities may require inspection or decontamination before and/or after launching. Check state and local laws and regulations for requirements prior to traveling to go boating.

3 Additional boat-specific recommendations

Nonmotorized watercraft

Canoes, rafts, kayaks, rowboats, paddleboats, inflatables, sculls, and other nonmotorized recreational watercraft also require proper treatment.

- **Clean** straps, gear, paddles, floats, ropes, anchors, dip nets, and trailer before leaving the water body.
- **Dry** everything completely between each use and before storing.
- **Wear** quick-dry footwear or bring a second pair of footwear with you when portaging between waterbodies.

Sailboats

- **Clean** centerboard, bilge board, wells, rudderpost, trailer, and other equipment before leaving the water body.
- **Drain** water from boat, motor, bilge, ballast, wells, and portable bait containers before leaving the water body.

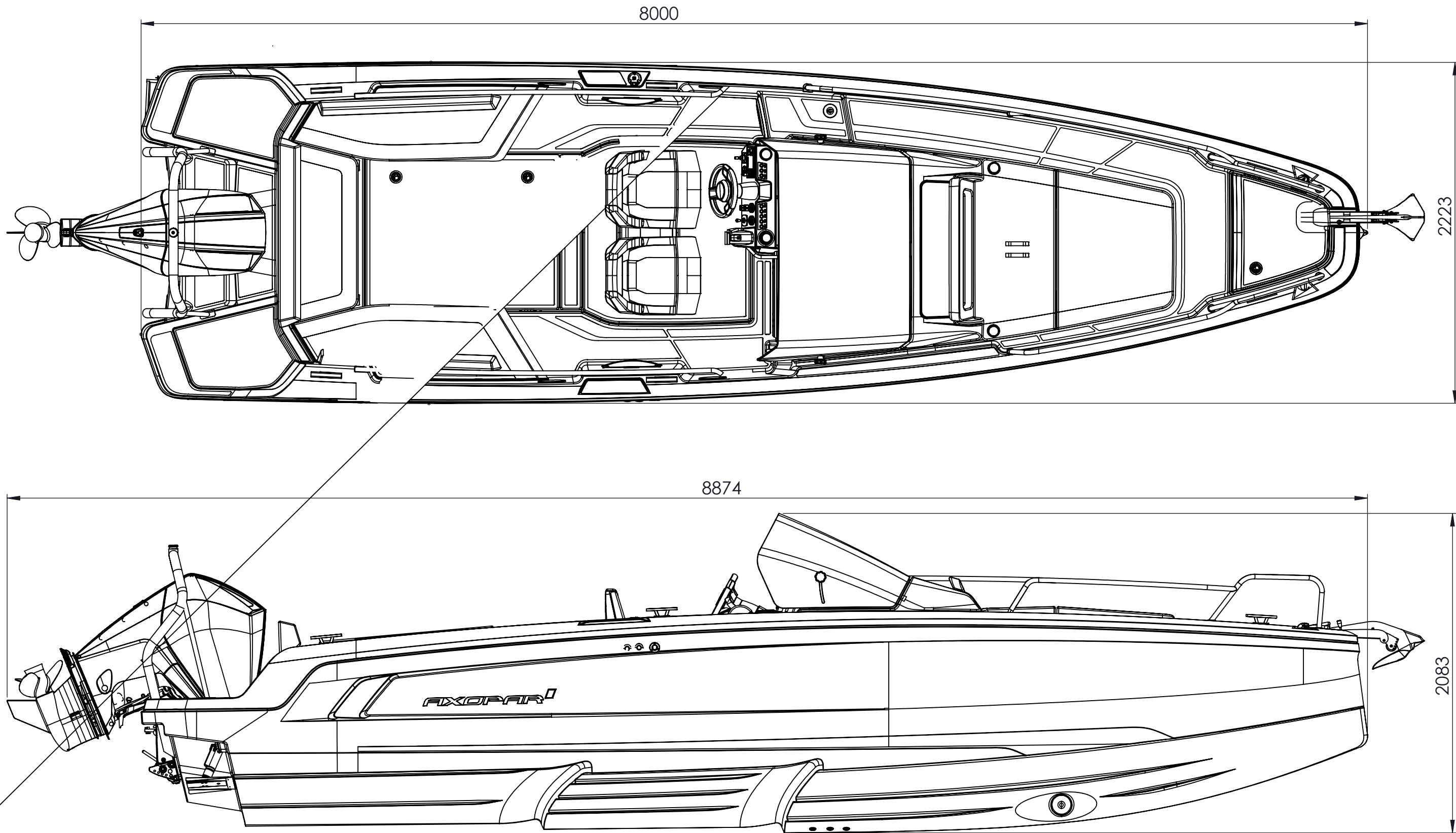
Motorized watercraft

- **Inspect** and **clean** motor or engine, including the gimbal area; trailer, including axles, bunkers, and rollers; anchors; dock lines; and equipment before leaving the water body.
- **Drain** live wells, bait containers, ballast and bilge tanks, and engine cooling systems.

Jet boats and personal watercraft (PWCs)

- **Inspect** and **clean** hull, trailer, intake grate, and steering nozzle, etc.
- **Clean** hull, trailer, intake grate, and steering nozzle, etc before leaving the water access.
- **Run** engine 5-10 sec to blow out excess water and vegetation from internal drive before leaving the waterbody.

12 Appendix IV: Transport dimensions



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AXOPAR				ITEM	REV
BOAT MODEL		MODEL YEAR		DRAWING	REV
	BY	DATE	DESCRIPTION	SCALE	PAGE
CREATED				1:25	1 / 1
CHECKED			TECHNICAL DESCRIPTION		
ACCEPTED					