

OWNER'S MANUAL

AXOPAR 29 CCX

MODEL YEAR 2025





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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 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 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.	
8	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

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 <i>diagram</i> .
Overloading the boat can damage the engine, 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.
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.
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).

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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.

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

A DANGER

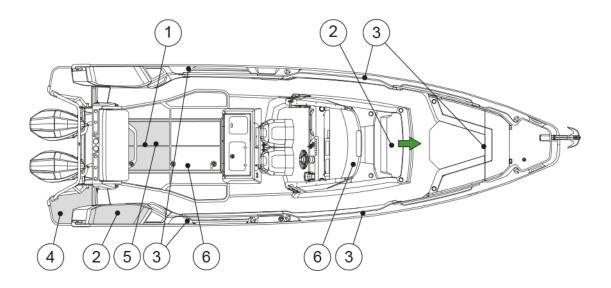
Slipping hazard

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

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.



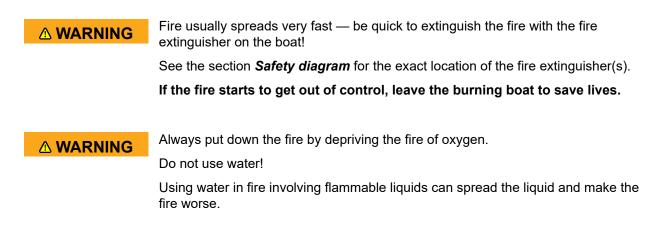
2.2 Safety diagram



- (1) Life raft storage
- (2) Fire extinguisher
- (3) Hooking points for safety harness
- (4) Swim ladder
- (5) Fire extinguisher (optional)
- (6) CO monitor and smoke alarm (also in optional aft cabin)

2.3 Fire protection and control

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





 Keep the bilge clean and check it regularly for fuel and gas fumes or fuel and oil leaks.
 Do not hang curtains or other flammable material near or above any equipment with naked flames.
Never leave the boat unattended when the heater is switched on.
Never refuel or replace gas containers when the engines are running.
Never smoke when handling fuel or gas.
Never block evacuation routes or emergency exits.
 Never block access to safety equipment such as fuel valves or main power switches.
Never block access to fire extinguishers, visible or concealed.
 Never modify the boat's systems (especially electrical, fuel 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 hand-held fire extinguishers. The fire ratings of the fire extinguishers must be at least as follows:

- Starboard fender box: 8A/89B (USCG: 5-B)
- Near driver's seat, under feet support, multicabin and an optional aft cabin: 8A/68B (USCG: 5-B).

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.
- Advice 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 engine

- Stop the engine.
- 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.
- Extinguish the fire.
- · Wait until fully certain that the fire has been extinguished before opening the engine cover.

Carefully open the engine 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 Carbon monoxide

Carbon monoxide (CO) is colorless, odorless, tasteless, and extremely dangerous gas.

All engines, generators, and fuel burning appliances produce CO as exhaust.

Prolonged exposure to low concentrations or very quick exposure to high concentrations may cause brain damage or death.

Open all doors, curtains, windows, and hatches to let fresh air circulate when running an engine or generator or burning any fuel while the boat is anchored, moored or docked.

If you can smell engine or generator exhaust, you are inhaling CO. CO can also be present without the smell of exhaust fumes.



If the CO alarm is activated, make sure all persons onboard exit the closed spaces.

- If exhaust fumes are detected or if CO accumulation is suspected on the boat, take immediate action to ventilate these fumes.
- Turn off all engines and generators.
- Open all hatches, windows and ports to ventilate.

Changing course and speed to place the boat heading into the wind can improve ventilation.

Symptoms of carbon monoxide poisoning are dizziness, ears ringing, headache, nausea and unconsciousness. A poisoning victim's skin often turns cherry red.

Because the carbon monoxide gas is odorless, colorless and tasteless, it is unlikely to be noticed until a person is affected.

▲ DANGER

- If CO poisoning is suspected, have the victim breath fresh air deeply.
- If breathing stops, resuscitate.
- A victim often revives, but then relapses because organs are damaged by the lack of oxygen.

Seek immediate medical attention.

High levels of carbon monoxide may accumulate in the following ways:

- Blocking hull exhausts while operating at slow speed or if exhausts are submerged.
- Using canvas curtains.
- Winds blowing exhaust toward boat occupants.
- Operating engine or generator in a confined space.
- Operating with the bow high.

Dangerous concentrations of carbon monoxide are present if:

- the engine or generator exhaust systems leak
- insufficient fresh air is circulating where people are present
- fumes move from the rear of the boat into the cockpit and cabin area.



To minimize the danger of CO accumulation when the engine and generator are running or when using burning fuel applications:

- Be sure to have sufficient ventilation when using canvas or window-type side curtains when underway, anchored, moored or docked.
- Operate all burning fuel appliances, such as charcoal, propane, LPG, CNG or alcohol cooking devices, in areas where fresh air can circulate. Do not use such devices where there is no noticeable air movement, especially in the cabin, when anchored, moored or docked.
- Do not idle the engine without moving the boat for more than 15 minutes at a time.
- Inspect the exhaust system regularly. See the manufacturer's manual for instructions.



2.5 Carbon monoxide monitor

There is a carbon monoxide monitor system in the boat.

The carbon monoxide monitors are located in all accommodation areas of the boat.

- With regular intervals, check that the monitor system is functioning. For instructions, see the equipment manufacturer's manual.
- It is not possible to turn the CO monitor off when the boat is in use.

See here the description of the audible and visual signals of the monitor.



Low battery voltage can trigger the carbon monoxide monitor to sound an alarm.

Operation	Audible Signal	Visual Signal
Normal	None	Green led flashes every minute
CO alarm	4 beeps, 5 seconds off - cycle repeats	Flashing red
Alarm malfunction	Beep every 30 seconds	Alternating red/green flash
End of life signal	Beep every 25-30 second	Red red green green flash sequence

2.6 Smoke alarm

Boat is equipped with smoke alarms.

Smoke alarm is battery powered. When the battery level reaches low level, the smoke alarm will start emitting low battery warning signal.

Smoke alarm may give false alarm if there is steam, condensation, or normal smoke or fumes in its vicinity.

The smoke alarm has a built-in hush or silence feature incorporated into the test button. This feature can be useful when unwanted alarm is caused by cooking or other non-hazardous sources trigger the alarm. Hush or silence feature temporarily silences the alarm and can be activated by pressing the test button for approximately 1 second. When hush or silence feature is activated, the alarm will enter dormant mode for 10-minute period with reduced sensitivity. Reduced sensitivity is indicated by red LED flashing every 10 seconds. After the period is over, the device will signal returning to normal sensitivity with two short beeps. If smoke density increases during hush or silence period, the device will automatically return to alarm mode.

Smoke alarms should be replaced at minimum every 5 years.



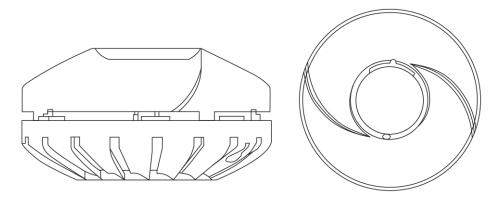


Figure 2.1 Smoke alarm

2.7 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

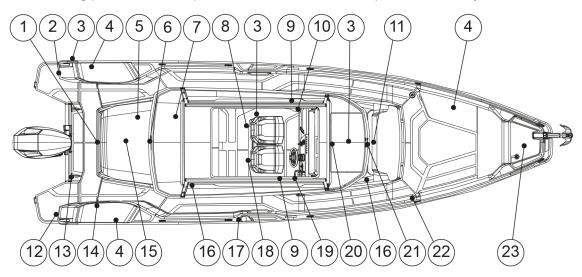
The life raft must be tied to the stern of the boat and prepared for use.

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

Follow the life raft manufacturer's instructions.

2.8 Safety labels on board

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





Position	Label	Description
1	AFT DECK FOLDING SEATS NOT SHOULD BE USED WHEN VESSEL SPEEDS IN EXCESS OF 5 M.P.H.	Danger Aft deck folding seats should not be used when vessel speeds in excess of 5 m.p.h.
2	CONTACT WITH A SPINNING PROPELLER WILL CAUSE SERIOUS INJURY OR DEATH. STAY CLEAR OF BOAT AND STAY OFF SWIM PLATFORM AND BOARDING LADDER WHILE ENGINE IS RUNNING.	Danger Contact with a spinning propeller will cause serious injury or death. Stay clear of boat and stay off swim plaform and boarding ladder while engine is running.
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 oilor 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 Unites States, if such discharge causes a film or discoloration of the surfaces 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		Do not drink water
4	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.	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. (Ventilation warning to bow locker and to both aft fender boxes.)
5	IF SWITCH IS TURNED OFF WHILE ENGINE IS RUNNING ALTERNATOR WILL BE DAMAGED.	Caution If switch is turned off while engine is running alternator will be damaged.
6	AFT SUN PAD SHOULD NOT BE USED WHEN VESSEL IS UNDER WAY.	Danger Aft sun pad should not be used when vessel is under way.

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Position	Label	Description
7	DO NOT CLOSE THE WETBAR LID UNTIL THE GRILL HAS COMPLETELY COOLED DOWN	Warning Do not close the wetbar lid until the grill has completely cooled down
8	AVOID SERIOUS INJURY OR DEATH. UNEXPECTED SEAT ROTATION MAY CAUSE EJECTION OF OCCUPANT. LOCK SWIVEL WHEN SPEED EXCEEDS 5 MPH.	Warning Avoid serious injury or death. Unexpected seat rotation may cause ejection of occupant. Lock swivel when speed exceeds 5 mph.
9	WARNING RUNNING BOAT WITH DOOR OPEN COULD INDUCE EXHAUST FUMES INTO CABIN. SEE OWNERS MANUAL FOR INSTRUCTIONS CONCERNING CARBON MONOXIDE.	Warning Running boat with door open could induce exhaust fumes into cabin. See owners manual for instructions concerning carbon monoxide.
9	WARNING KEEP SHUT WHILE UNDERWAY. RUNNING BOAT WITH DOOR OPEN COULD INDUCE EXHAUST FUMES INTO CABIN. SEE OWNER'S MANUAL FOR INSTRUCTIONS CONCERNING CARBON MONNXIDE.	Warning Keep shut while under way. Running boat with door open could induce exhaust fumes into cabin. See owner's manual for instructions concerning carbon monoxide.
10	BOATMAN'S CHECK LIST For maximum enjoyment and safety, check each of these items BEFORE you start your engine: 9 DRAIN PLUG (Securely in place?) • LIFE-SAVING DEVICES (One for every person on board?) • PEERING SYSTEM (Working smoothy and property?) • PUEL SYSTEM (Adequate fuel? Leaks? Fumes?) • BAITERY (Fully charged? Cable terminals clean and tight?) • PAGITY 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.?)	 Boatman's checklist For maximum enjoyment and safety, check each of these items before you start your engine: 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?) Electrical equipment (Lights, horn, pump, etc?) Emergency gear (Fire extinguisher, bailer, paddle, anchor & line, signaling device, tool kit, etc.?)



Position	Label	Description
10	IF SWITCH IS TURNED OFF WHILE ENGINE IS RUNNING ALTERNATOR WILL BE DAMAGED.	Caution If switch is turned off while engine is running alternator will be damaged.
11	A WARNING Installation of Maintenance free AGM batteries are only allowed in this area.	Warning Installation of Maintenance free AGM Batteries are only allowed in this area.
12	CONTACT WITH A SPINNING PROPELLER WILL CAUSE SERIOUS INJURY OR DEATH. STAY CLEAR OF BOAT AND STAY OFF SWIM PLATFORM AND BOARDING LADDER WHILE ENGINE IS RUNNING.	Danger Contact with a spinning propeller will cause serious injury or death. Stay clear of boat and stay off swim plaform and boarding ladder while engine is running.
12	CARBON MONOXIDE (CO) CAN CAUSE BRAIN DAMAGE OR DEATH. ENGINE AND GENERATOR EXHAUST CONTAINS DODORLESS AND COLORLESS CARBON MONOXIDE GAS. CARBON MONOXIDE WILL BE AROUND THE BACK OF THE BOAT WHEN ENGINES OR GENERATORS ARE RUNNING. MOVE TO FRESH AIR IF YOU FEEL NAUSEA, HEADACHE, DIZZINESS, OR DROWSINESS.	Danger Carbon monoxide (CO) can cause brain damage or death. Engine and generator exhaust contains odorless and colorless carbon monoxide gas. Carbon monoxide will be around the back of the boat when engines or generators are running. Move to fresh air if you feel nausea, headache, dizziness, or drowsiness.
13	KI POLE MUST BE SECURED WHEN IN USE. TOW ROPE MAY BACKLASH INTO COCKPIT. DO NOT USE TO TOW ITEMS SUCH AS TUBES OR OTHER TOWABLES. MAX TOW LOAD CAPACITY IS 130 KG.	Warning Ski pole must be secured when in use. Tow rope may backlash into cockpit. Do not use to tow items such as tubes or other towables. Max tow load capacity is 130 kg.
14		Fire extinguisher
15		Emergency exit



Position	Label	Description
15	DANGER LEAVING HATCH OPEN COULD INDUCE EXHAUST FUMES INTO CABIN RESULTING IN SEVERE PERSONAL INJURY OR DEATH.	Danger Leaving hatch open could induce exhaust fumes into cabin resulting in severe personal injury or death.
15	NO VENTILATION IS PROVIDED. FUEL VAPORS ARE A FIRE AND EXPLOSION HAZARD. TO AVOID INJURY OR DEATH, DO NOT STORE FUEL OR FLAMMABLE MMM	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.
16	CARBON MONOXIDE (CO) CAN CAUSE BRAIN DAMAGE OR PEATH. EARBON MONOXIDE (CO) CAN CAUSE BRAIN DAMAGE OR PEATH. EARBON MONOXIDE CONTAINS ODORLESS AND COLORLESS CARBON MONOXIDE CAS: SIGNOS - EZERON MONOXIDE POSISONING INCLUDE NAUSE, HEADACHTE PESH AIR INFORMATION REGARDING CARBON MONOXIDE POSISONING SEE OWNERS MANUAL FOR INFORMATION REGARDING CARBON MONOXIDE POISONING.	Warning Carbon monoxide (CO) can cause brain damage or death. Engine and generator exhaust contains odorless and colorless carbon monoxide gas. Signs of carbon monoxide poisoning include nausea, headache, dizziness, drowsiness, and lack of consciousness. Get frensh air if anyone shows signs of carbon monoxide poisoning. See owner's manual for information regarding carbon monoxide poisoning.
17	11 A WARNING Gasoline vapors are explosive! Avoid serious injury or death from fire or explosion, resulting from leaking fuel. Inspect system for leaks at least once a year. Contents can be under pressure. Open slowly in a well ventilated area. The use of fuels containing ethanol higher than 10% (E-10) can damage your engine or fuel system and will void the warranty. Never use (E-85). Open flame appliances can ignite gasoline vapors causing death or injuries from the fire or explosion. Turn off all open flame appliances when refueling.	 Warning Gasoline vapors are explosive! Avoid serious injury or death from fire or explosion, resulting from leaking fuel. Inspect system for leaks at least once a year. Contents can be under pressure. Open slowly in a well ventilated aread. The use of fuels containing ethanol higher than 10% (E-10) can damage your engine or fuel system and will void the warranty. Never use (E-85). Open flame appliances can ignite gasoline vapors causing death or injuries from the fire or explosion. Turn off all open flame appliances when refueling.



Position	Label	Description
18	LIGUIDS HERE IT IS ILLEGAL FOR ANY VESSEL TO DUMP PLASTIC TRASH ANYWHENE IN THE OCLAN OR NAVIGABLE WATERS OF THE UNITED STATES. ANNEX V OF THE MARPOL TREATY IS AN USALING ANYTHONNEY. VOLATION OF THESE ANNEX V OF THE MARPOL TREATY IS AN USALING ANYTHON THE ANY OF T	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 anvironment., 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> illega do dump plastic State and local regulations may further restrict the disposal of garbage.
19	ATTACH SHUT DOWN SWITCH LANYARD TO QUALIFIED OPERATOR WHILE ENGINE IS IN OPERATION. UNCONTROLLED BOAT MAY CAUSE INJURY OR DEATH. READ OWNERS MANUAL BEFORE USE.	Warning Attach shut down switch lanyard to qualified operator while engine is in operation. Uncontrolled boat may cause injury or death. Read owners manual before use.
19	AND	US: NMMA plate EU: CE plate Canada: Compliance tag
19	CARBON MONOXIDE (CO) CAN CAUSE BRAIN DAMAGE OR DEATH. CARBON MONOXIDE (CO) CAN CAUSE BRAIN DAMAGE OR DEATH. CARBON MONOXIDE COSTONING INCLUDE NAUSEA, SIGNS OF CARBON MONOXIDE POISONING INCLUDE NAUSEA, HEADACHE, DIZZINESS, DROWSINESS, AND LACK OF CONSCIOUSNESS. GET FRESH AIR IF ANYONE SHOWS SIGNS OF CARBON MONOXIDE POISONING. GET FRESH AIR IF CARBON MONOXIDE DETECTOR ALARM SOUNDS. CARBON MONOXIDE DETECTOR MUST BE FUNCTIONING AT ALL TIMES.	Warning Carbon monoxide (CO) can cause brain damage or death. Carbon monoxide can be present in the cabin. Signs of carbon monoxide poisoning include nausea, headache, dizziness, drowsiness, and lack of consciousness. Get frensh air if anyone shows signs of carbon monoxide poisoning. Get fresh air if carbon monoxide detector alarm sounds. Carbon monoxide detector must be functioning at all times.
19	CONTACT WITH A SPINNING PROPELLER WILL CAUSE SERIOUS INJURY OR DEATH. SHUT OFF ENGINES while people are in the water near the boat, on the swine platform, or on the boarding ladder. • NEVER OPERATE IN REVERSE TOWARD A PERSON in the water.	 Danger Contact with a spinning propeller will cause serious injury or death. Shut off engines while people are in the water near the boat, on the swim platform, or on the boarding ladder. Never operate in reverse towards a person in the water.



Position	Label	Description	
19	RUNNING BOAT WITH DOOR OPEN COULD INDUCE EXHAUST FUMES INTO CABIN. SEE OWNERS MANUAL FOR INSTRUCTIONS CONCERNING CARBON MONOXIDE.	Warning Running boat with door open could induce exhaust fumes into cabin. See owners manual for instructions concerning carbon monoxide.	
19	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.	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 disctribution. Read owners manual before use.	
19	A WARNING USE CAUTION WITH SKIER IN TOW AS TOW ROPE MAY BACKSPLASH INTO COCKPIT WHEN RELEASED.	Warning Use caution with skier in tow as tow rope may backsplash into cockpit when released.	
19	ATTACH SHUT DOWN SWITCH LANYARD TO QUALIFIED OPERATOR WHILE ENGINE IS IN OPERATION. UNCONTROLLED BOAT MAY CAUSE INJURY OR DEATH. READ OWNERS MANUAL BEFORE USE.	Warning Attach shut down switch lanyard to qualified operator while engine is in operation. Uncontrolled boat may cause injury or death. Read owners manual before use.	
20	WARNING WATERTIGHT CLOSURE KEEP SHUT WHEN UNDER WAY	Warning Watertight closure keep shut when under way.	
21		Shutoff valve	
22	AVOID PERSONAL INJURY STAY INSIDE DECK RAILS (AND GATES) WHEN BOAT IS UNDERWAY.	Warning Avoid personal injury. Stay inside deck rails (and gates) when boat is underway.	



Position	Label	Description
23		Pay attention to the warnings and read the manual.
23	KEEP HANDS OUT OF MACHINERY. FOLLOW UP INSTRUCTIONS FOR REMOTE CONTROL ENABLING.	Warning Keep hands out of machinery. Follow up instructions for remote control enabling.



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.

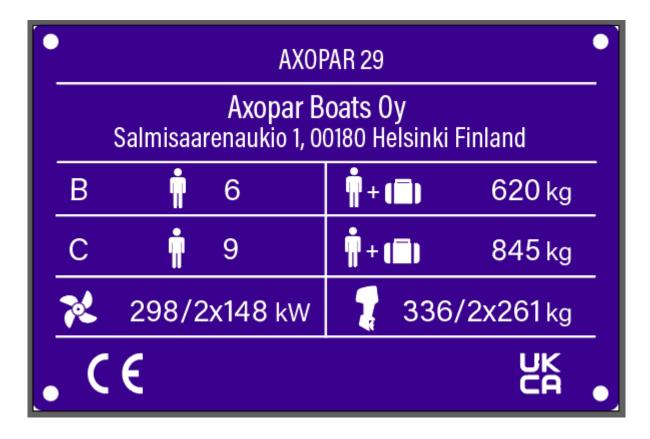
The height of the code text is 6 mm, and it is located on the starboard side of the stern.

Example: FI – AXO9D010H525	Data
FI	Country of manufacturer: Finland
-	Hyphen
АХО	Manufacturer: Axopar Boats
9D	Boat model • D = CCX
010	Boat number
Н	Manufacturing month • 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.



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 categories B and 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
B. Offshore	The boat is designed for offshore voyages, where conditions up to and including wind force 8 on Beaufort Scale and significant wave heights up to and including 4 meters may be experienced.
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)	9.31 m	30 ft 7 in
Overall length (LMAX) (excluding engine)	9.71 m	31 ft 10 in
Hull beam (BH)	2.92 m	9 ft 7 in
ВМАХ	3.0 m	9 ft 10 in
Draught at max. load (excluding engine)	0.62 m	2 ft
Draught to props	approx 0.93 m	3 ft 6 in
Height measured from waterline at light load (Antennas and light down)	2.6 m	8 ft 6 in

Engines

	SI units	US units
Maximum recommended engine power	298 kW	400 hp
Maximum recommended power with twin engines	2 x 148 kW	2 x 200 hp
Maximum recommended engine weight, single engine	336 kg	741 lb
Maximum recommended engine weight, twin engine	2x261 kg	2x575 lb



Weight and loading

	Category B		Category C	
	SI units	US units	SI units	US units
Hull weight (excluding engines)	2700 kg	5952 lb	2700 kg	5952 lb
Weight of unloaded boat with maximum weight outboard engines (MLC)	3332 kg	7346 lb	3332 kg	7346 lb
Boat weight at maximum load (MLDC)	4712kg	10388 lb	4937 kg	10884 lb
Mass on trailer (excluding weigth of septic and bait tanks contents)	3890 kg	8576 lb	3890 kg	8576 lb

Load components

	Category B		Category C	
	SI units	US units	SI units	US units
Maximum recommended load	1380 kg	3042 lb	1605 kg	3538 lb

of which

	Category B		Category C	
	SI units	US units	SI units	US units
Total weight of all persons	450 kg	992 lb	675 kg	1488 lb
Personal luggage	80 kg	176 lb	80 kg	176 lb
Life raft weight	50 kg	110 lb	50 kg	110 lb
Optional - Load on roof racks	40 kg	88 lb	40 kg	88 lb
Total weight of fuel, water and other liquids	778 kg	1715	778 kg	1715



Tank capacity

	SI units	US units
Fuel tank	600 I	158.5 gal
Optional items		
Fresh water tank	42	11 gal
Septic tank	42	11 gal
Fish box	42	11 gal
Main baitwell with tackle station	120	32 gal
Fender box livewell	95	25 gal

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

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

Boat weight may vary ±15% depending on the options chosen.

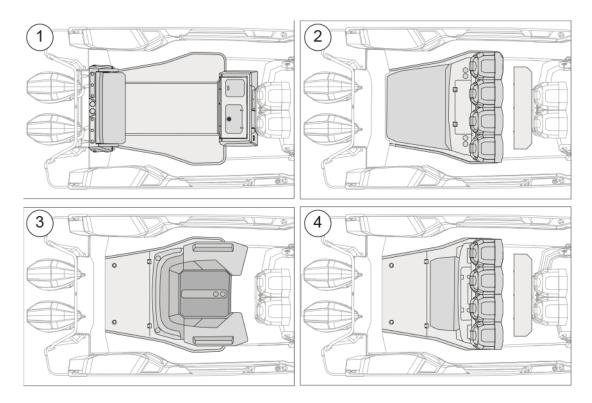
3.6 Boat layout

The boat has several deck options. The layout of the equipment and the technical components may vary depending on the chosen accessories.

The standard boat has a flat aft deck with stowage underneath.

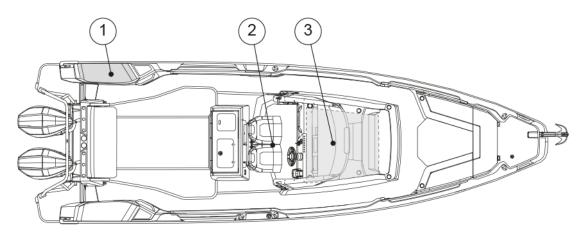
The stowage can be replaced with optional extra equipment such as an aft cabin, a storage bench, a wet bar or U-sofa.





- (1) Foldable aft leaning post / Main baitwell with tackle station
- (2) Aft cabin / multi-storage
- (3) Aft U-sofa
- (4) Wet bar

As an option, the cockpit can be equipped with seat base refrigerator and sink. In the front part of the cockpit, there is a separate multicabin with a door that opens to the front deck. The multicabin can be equipped with a toilet package and furnished with an accommodation package.



- (1) Optional fender box wet bar
- (2) Optional seatbase refrigerator and sink
- (3) Multicabin or 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 engine 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.

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).

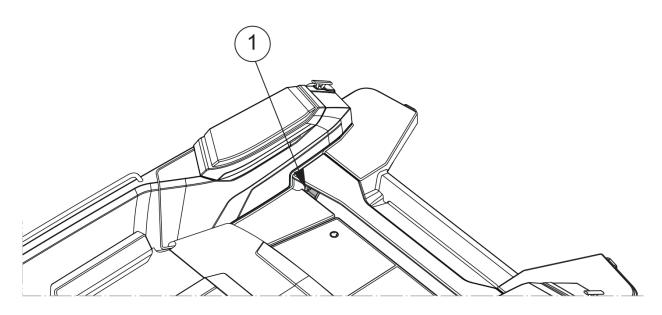
4.1.1 Self-draining systems

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.

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 drivers floor, there is drain hole at port side of the floor. Behind the drain hole, automatic water pump is installed. It removes water from driver's floor. Keep drain holes clean.

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.



Footwell area at the drivers location is drained with a bilge pump. The pump is located at the port side of the well area, behind a panel. Do not block the drain hole.

4.1.2 Openings in the hull and deck

There are several inlets through the boat that include valves for opening and closing such inlets. It is recommended to keep these inlets closed if the boat is out of use for a long time, and to open them again when the boat is used again. If the boat is lifted out from water or in rainy conditions, inlets should be kept open.

Always check that all hatches are securely closed before and after using the boat.

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



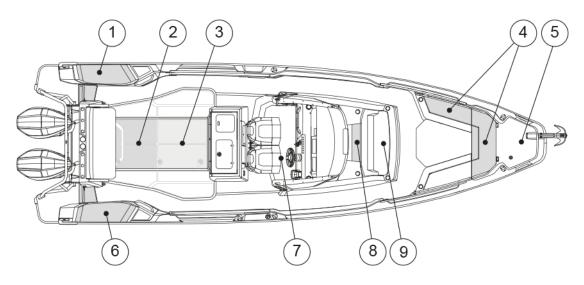
We recommend that you keep the windows, doors, deck hatches, roof hatches, vents and interior doors closed while driving. In stormy weather, always keep them securely closed to minimize the risk of water getting into the boat and to avoid any personal injuries.

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.



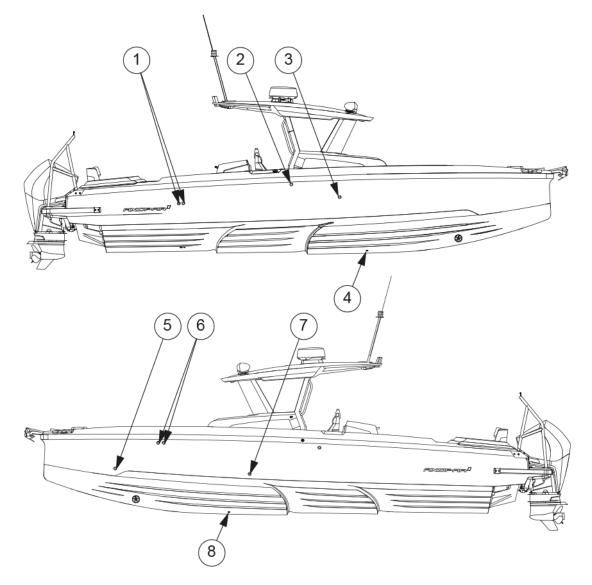
All doors and hatches must be kept shut when under way.

The figure shows the hatches and seacocks that must be kept closed when the boat is left unmanned. Keep hatches closed also while underway.



- (1) Port fender box hatch / livewell (optional)
- (2) Aft deck hatch / aft cabin hatch
- (3) Optional raw water system (sea chest) seacock
- (4) Storage box hatches
- (5) Anchor hatch
- (6) Starboard fender box hatch
- (7) Fuel tank compartment inspection hatch
- (8) Multicabin hatch
- (9) Black water tank seacock and raw water intake seacock

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



- (1) Electric and manual bilge pump outlets
- (2) Fuel tank ventilation
- (3) Grey water outlet
- (4) Black water outlet and raw water intake
- (5) Manual front bilge pump outlet
- (6) Fresh water and black water tank vents
- (7) Electric front bilge pump outlet
- (8) Transducer

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.

	The filler contact is not be investigated to be a second second
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

Bilge pump output

The manual and automatic bilge pump output exceeds the minimum of 15 liters (4 gallons) per minute.

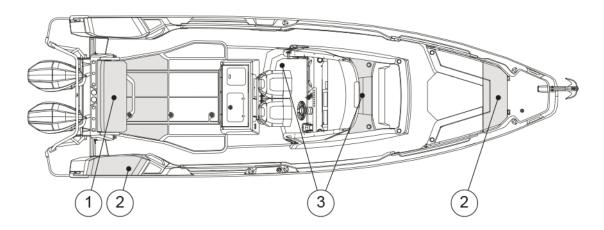
Bilge pump locations

The manual bilge pump's control handle is located in the starboard side fender storage in the aft deck.

The electric bilge pumps are submersible.

One electric bilge pump is located under the berth of the aft cabin.

The second electric bilge pump can be accessed through the multicabin. 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

4.2 Technical systems

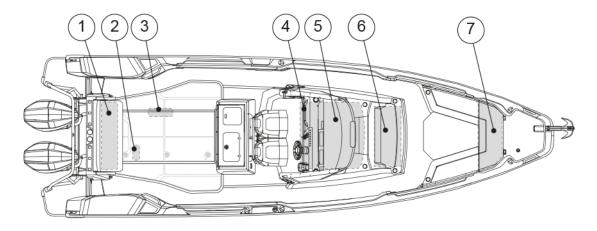
4.2.1 Electrical system

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.





- (1) Batteries
- (2) Shore power system battery charger
- (3) Main switch panel
- (4) Optional remote main switch panel
- (5) Fuse panel
- (6) Bow thruster and windlass fuses; Aux battery with charger
- (7) Shore power plug and fuse switches

4.2.2 12V system

The 12V system consists of engine driven alternators, battery chargers for shore-side electricity, batteries and equipment. The power is supplied to the batteries via diodes from either the engine alternator or the shore power charger.

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.

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



4.2.3 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.

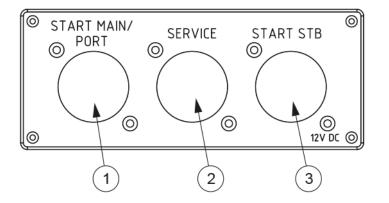
The background color of the main switch and the text On shows that the electronic circuit is switched on, and when the circuit is switched off, the background color is red and the text says Off.

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 the after seat. In the main switch panel, there are direct supply switches for critical equipment and main switches for the start batteries, the service battery and the Aux battery.

Current is fed to the engine by turning the Start switch to the On position. The current feed to other equipment is achieved by turning the Service switch to the On position, and feed to the bow thruster and windlasses is achieved by turning the Aux switch to the On position.

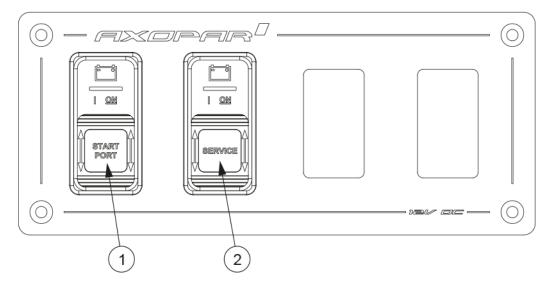
Main switch panel



- (1) Start batteries
- (2) Service battery
- (3) Optional second engine main switch



Optional remote main switch panel



- (1) Start batteries
- (2) Service battery
- (3) Space for the switch of optional second engine
- (4) Space for the switch of optional bow thruster and windlass

4.2.4 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.

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.

4.2.5 Fuses

The fuse panel includes fuses for the boat's equipment. The fuse panel is located in the front multicabin.

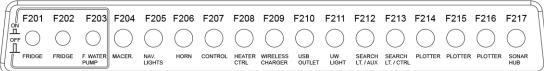


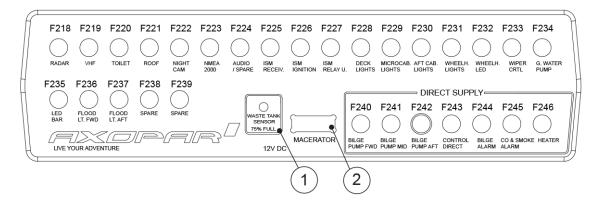
The fuses are in the form of trip switches that break the circuit and spring up when tripped. Do not reset the switch before you have found out the reason for the breaker tripping. After that press the switch back down.

The panel has a switch for the macerator.

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) Blackwater tank high-level alarm
- (2) Macerator pump switch

4.2.6 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.

4.2.7 Batteries

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

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 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.

4.2.7.1 Charging the batteries

- 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.
 - The voltage measurement must be taken at the battery terminals, not the alternator, to achieve the correct result.

4.2.7.2 Winter storage

For winter storage, the 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).

4.2.7.3 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.

AXOPAR

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

4.2.8 110/230V system

You can choose to equip your boat with the optional 110/230V AC system with a shore power connection, which will allow you to use devices that run on the standard mains current.

The system obtains its power from an external supply on shore or from the jetty (shore power). In the European market the system used is 230V and in the American market 110V.

The system functions when a shore power cable has been connected to the shore power socket connection.

- 1. Turn off the shore power switch before connecting or disconnecting the cable.
- 2. Connect the shore power cable to the boat before connecting it to the shore power.
- 3. Disconnect the shore power cable from the shore power before disconnecting from the boat.
- 4. Close the hatch of the boat's shore power connection.

Unplug the shore power cable before starting the engines. Starting the engines with the shore power cable connected may break the battery isolators.

The system's main fuse is located in a separate control panel. The system includes a battery charger, which starts charging batteries automatically when the boat has been connected to shore power. The location of the components is presented in the section *Electrical System*.

The shore power system needs to be checked at least biannually. Always disconnect the shore power cable when the system is not in use. Metal casings of installed electrical equipment must always be connected to earth in the boat electrical system. Use electrical equipment equipped with earth protection only.

Risk of electric shock and fire!

- Do not touch an energized high voltage system.
- Do not change the plug of the shore power cable. Use compatible connectors only.
- Try to minimize the risk of electric shock, short circuit and fire.
- Do not allow the shore power cable to hang in the water. If it does, a hazardous electric field could be created in the water.
- Never modify the connections on the shore power cable. Use compatible connectors only.
- 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.



To avoid an electric shock and risk of fire:

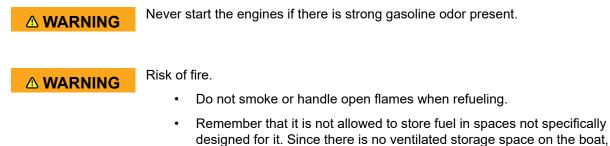
- Switch off the shore power switch before connecting and disconnecting the cable.
- Connect the shore power cable to the boat before connecting it ashore.
- Disconnect the shore power cable ashore before disconnecting it from the boat.
- Close the hatch to the shore power socket on the boat carefully,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

4.2.9 Fuel system

The boat has a fixed fuel system and a water-separating fuel filter on the suction line.

Instead of the fuel system used in the European region, the boats produced for the American region use the EPA (United States Environmental Protection Agency) fuel system regarding NMMA (National Marine Manufacturers Association) certification rules.

See the fuel system drawing in *Appendix II*. For care and maintenance of the fuel system, see the instructions in the engine manual.



Fuel system component locations

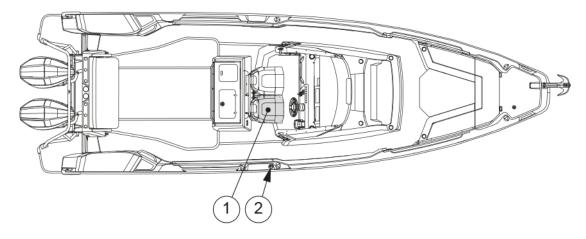
The fuel tank is located in the middle of the keel. Prevent damage to the fuel lines.

• The components of the tank, the fuel filter (if available) and the fuel tank valves are located under the driver's seat.

possible spare fuel cans must be stored on deck.

• The inlet pipe for fuel is located in the starboard side of the deck.





- (1) Fuel tank and valve
- (2) Fuel inlet fitting

4.2.9.1 Refueling the boat

If the boat has optional decking material, wet down the deck with water before refueling. This ensures that any fuel spillage will float on the water and not penetrate the decking material.

Water reaching the engine's injection system can cause rapid corrosion damage to the precision components in the injection pump components. For this reason, it is vital to check the extra fuel filter regularly for water. Every so often, drain a small quantity of fuel into a suitable container (avoid fuel spillage) and check that there is no condensation water. If there is water in the filter, continue to drain until only clean fuel appears.

The fuel system on the engine is sensitive to air bubbles in the fuel. Always fill the tanks well before they are completely empty. If the system has been run dry, it must be bled before the engine can be started again. See the engine manufacturer's instruction manual before bleeding the fuel system.

- Never block access to safety equipment, fire extinguishers, fuel valves or main power switches.
- Never block any ventilation openings made in the boat because their purpose is to clear the air of fuel fumes.
- Never use a wrong type of fuel in the heater or cooker as this may damage them.
- Never use an open flame when detecting leaks.

4.2.9.2 Maintaining the fuel system

Follow the engine manufacturer's maintenance schedule.

- Annually, check the condition of the hoses and make sure that there are no visible cracks, abrasion, or deterioration.
- Replace worn parts with genuine, marine-grade parts only.



- Bi-annually and for winter storage, check the fuel tank compartment for possible accumulated water. This can be done by inserting a thin hose through the aluminium pipe at top of the tank. The pipe guides the hose to the lowest part of the fuel tank compartment. The compartment can then be emptied with wet-dry vacuum cleaner connected to the hose.
- Bi-monthly, inspect the fuel system for presence of water in the fuel tank.

Presence of water in fuel can be checked by inspecting the contents of the fuel filter.

If any water is found, it must be removed and the whole fuel tank dried before the tank can be refilled with fuel.

• Examine the fuel tank and lines for corrosion and leaks.

Bi-annually and for winter storage, check the fuel tank compartment for possible accumulated water as follows:

- 1. Insert a thin hose through the aluminium pipe at top of the tank. The pipe guides the hose to the lowest part of the fuel tank compartment.
- 2. Connect a wet-dry vacuum cleaner to the hose.
- 3. Empty the compartment.

4.3 Optional equipment

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

4.3.1 Freshwater system

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

The freshwater system consists of a freshwater tank, pump and accumulator. The boat may also be equipped with a water supply point in the galley and a deck shower and a water supply point for the wet bar.

The tank is located under front deck. The freshwater tank is filled via the inlet pipe on the foredeck.

To turn the freshwater system, switch on the freshwater pump. The pump switch is located on the fuse panel.

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

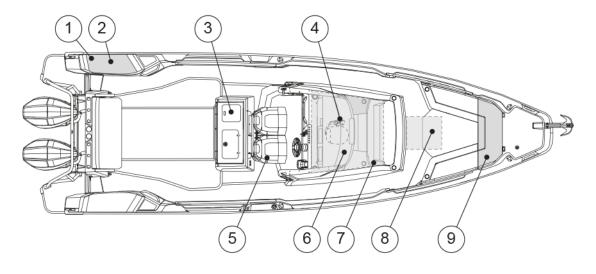
The dealer is responsible for disinfecting the freshwater tank before sale.

NOTICE

The water from the system is not meant for drinking.

The freshwater system must be thoroughly emptied for winter storage. It is not recommended to use any anti-freeze products in the freshwater system.





- (1) Deck shower
- (2) Wet bar tap
- (3) Baitwell tap
- (4) Freshwater pump switch
- (5) Galley tap
- (6) Toilet tap
- (7) Freshwater pump
- (8) Freshwater tank
- (9) Water inlet

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.

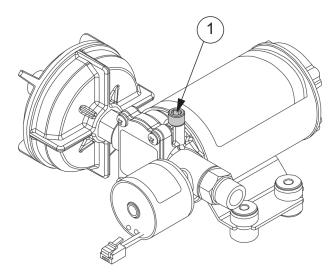


Figure 4.1 Water pump and air release valve

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.

4.3.2 Raw water system

A raw water system is an integral component of a boat's seawater intake system. It is a hollow chamber that is installed on the hull of a vessel, typically below the waterline. The raw water system is a mandatory subsystem that is required when the boat has any of the following options: main bait livewell and tackle station, fender box bait livewell, or deck wash pump. The raw water system provides seawater reservoir for these systems to use.

Sea chest

Sea chest is an integral component of a boat's raw water system. The primary purpose of a sea chest is to provide a controlled intake of seawater used for various onboard systems.

The aluminum 18-liter (5 US gal) sea chest is in the aft of the boat, under the aft deck hatch. It can be equipped with two submersible bilge pumps and it is possible to place seacocks and bait livewell pumps behind the gyro pedestal. The pumps can be accessed by unscrewing the bolts holding the lid of the sea chest.

The outlet valve can be adjusted to control the flow rate as required.



Close the water intake valve when you are not using the equipment which utilizes the sea chest.

Maintenance



All maintenance should be performed by a qualified technician.



Regular inspection and cleaning of the grates is recommended to maintain optimal performance.



- Monthly: Visually check the sea chest. Make sure there are no signs of corrosion such as bubbling paint, pitting, or discoloration.
- Biannually: Check the sealing for leaks.

4.3.3 Wet bar in port fender box

You can choose to equip your boat with an optional wet bar in fender box. The wet bar is in the boat's port side fender box.

The cooling unit for the cooled compartment is located under the fender box and can be accessed via the service hatch under the aft deck hatch.

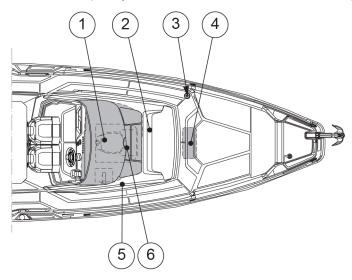
Maintenance

- Inspect the faucet for leaks or drips.
- Clean the sink and faucet with a mild detergent, avoiding abrasive materials that could scratch the surface.
- Drain and flush the water system to prevent any buildup of sediments or bacteria.
- Check the cooled storage box for consistent temperature and operational efficiency. Clean the interior with a soft cloth and a solution of baking soda and water to eliminate odors and stains.
- Annually ensure all connections, including water supply lines and drain pipes, are secure and free of corrosion.



4.3.4 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
- (5) Toilet seat pump
- (6) Septic tank seacock 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.

4.3.4.1 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.

4.3.4.2 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.

4.3.5 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.



4.3.5.1 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.

4.3.6 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.

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.

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



Pinching hazard

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

4.3.7 Anchor windlass

The boat can be equipped with bow 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.

- 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.

Pinching hazard

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

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.

- 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.

4.3.8 Work lights

The boat can be equipped with work lights package. The package consists of 4 flood lights mounted on the 4 corners of the ceiling, LED light bar mounted on the roof pointing towards the bow, and control panel for controlling the lights. The flood lights and the LED bar are dimmable, and the flood lights direction can be adjusted to your needs.

The flood lights are grouped to bow and aft zones, which can be switched on or off independently. The front mounted LED lightbar is controlled independently from its switch button.

△ CAUTION

The lights are very bright in their highest setting. Avoid staring directly into the lights.

4.3.9 Searchlight

The boat can be equipped with an optional searchlight. The searchlight can be mounted on the light mast or directly on the roof depending on the boat model. The searchlight is remote-controlled and rotates 360 degrees, allowing you to illuminate objects in any direction.

The searchlight has one-touch auto sweep and S.O.S.



The searchlight has a 30-minute shut-down timer. If the searchlight is left unattended for more than 30 minutes, the searchlight turns itself off.

4.3.10 Solar panel trickle charger

The boat can be equipped with solar panel trickle charging system. The system allows you to maintain and slowly charge the batteries on the boat.

The solar panel is located on the bow end of the roof. The trickle charging system includes a charge controller, preventing battery overcharge. The charge controller is installed in the battery compartment wall.

Maintenance

Ensure that the solar panel is mounted properly. Check for any dirt, debris, and corrosion on the panel. Periodically clean the solar panel with water.

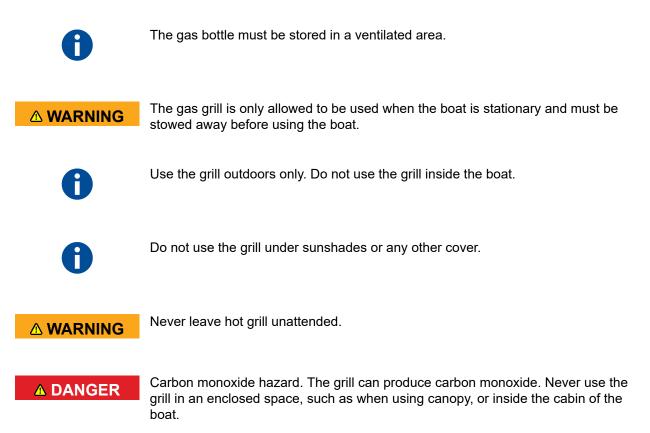


Do not use chemicals, as they can damage the panel.



4.3.11 Gas grill

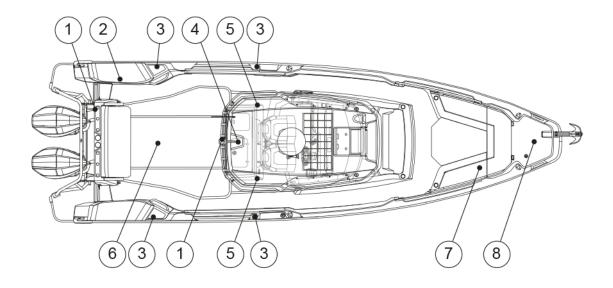
You may choose to equip your boat with a portable gas grill. Portable gas grill option adds all the components needed to use an external gas grill on board. It includes the gas bottle storage in bow locker, the gunwale mount, and an offset insert adapter, which is designed to mount all Magma brand grills. The option also includes a ventilated gas storage canister under the anchor hatch.



4.3.12 Fishing gear

The boat can be equipped with the following optional equipment for fishing.

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- (1) Rodholders
- (2) Livewell in fender box
- (3) Rod holder
- (4) Main bait livewell and tackle station
- (5) Outrigger reinforcements
- (6) Rod storage
- (7) Fish box with macerator
- (8) Dedicated assembly location for optional trolling motor



All of the gear listed here — except the reinforcements for outriggers — are optional. Axopar does not offer outriggers or trolling motors.

4.3.13 Bait livewell options

The boat has two optional bait livewell storages for fish.

Main baitwell option

Main baitwell option is located behind the front seats. It may contain

- 33 US gal/125 I tank
- a sink
- a water faucet
- raw water wash down
- storage box for lure boxes, and
- a storage for lines.



Port fender box baitwell option

A smaller 18.5 US gal/70 I baitwell in portside fender box.

4.3.13.1 Main bait livewell with tackle station

The main bait livewell is in the centerline of the boat. It contains a 125-liter (33 US gallons) baitwell and a tackle station compartment to keep your lures and reels neatly organized and ready to use. The main baitwell utilizes the sea chest of the raw water system for aerated water.

The pump's switch and baitwell light switch are located on the switch panel on the bow facing the wall of the main baitwell. The water intake valve is located under the aft deck hatch on the sea chest bow facing wall.

To start the seawater circulation, make sure the sea chest through-hull water intake valve and baitwell water intake valve are open and switch on the pump from the switch panel.

The baitwell drain is operated by electric valve. To drain the baitwell empty, open the valve with the **Drain livewell** switch button.



The raw water system intake valve must be open for the baitwell pump to get water.

Maintenance

Inspect and clean the overflow drain and pump strainer from gunk after each use.

- 1. Clean the inside of the baitwell with distilled vinegar and hydrogen peroxide.
- 2. Circulate freshwater through the system a few times to rinse it.



Avoid using harsh cleaners, as they can cause the bait fish to die.

4.3.13.2 Fender box livewell

You can choose to convert the port side fender box into a 70-liter (18.5 US gal) bait livewell. Baitwell keeps the bait fish alive by circulating sea water in the well. The baitwell gets its raw water through the baitwell pump from the sea chest located under the deck in the aft. The baitwell has a drain to prevent the baitwell from overflowing.

Running the baitwell

To run the water in baitwell, the water intake valve must be open.

The water intake valve is located on the sea chest bow facing wall. Baitwell pump switch is located next to the port fender box.

- 1. Open intake valve to sea chest, and valve from sea chest to fender box baitwell.
- 2. Turn the pump on. The switch is located next to port fender box. If the boat is also equipped with a main baitwell and a tackle station, the switch is located in the main baitwells switch panel. The pump fills up the baitwell until the water starts to run out from the overflow pipe.



- **3.** Leave the pump running for continuous exchange of water.
- 4. Close the seacock when the baitwell is not in use.

Maintenance

Inspect and clean the overflow drain and pump strainer from gunk after each use.

- 1. Clean the inside of the baitwell with distilled vinegar and hydrogen peroxide.
- 2. Circulate freshwater through the system a few times to rinse it.



Avoid using harsh cleaners, as they can cause the bait fish to die.

4.3.14 Deck wash pump

You have the option to upgrade the main baitwell and tackle station with a deck wash system. With the deck wash system you can use seawater to wash the deck from stains and loose dirt.

The deck wash system consists of a seawater pump, hosing, and a spray gun. The system utilizes the sea chest for water source. The pump is self-priming and is not damaged by a short period of dry running.

The deck wash pump is switched on from the main baitwell switch panel. The spray gun is connected to the outlet under the switch panel with a quick coupling.

Do not use pump for any other liquids than freshwater and seawater.

- If water is not drained from the system before freezing temperatures, damage is likely to occur in the plumbing and the pump.
- Never start a frozen pump. Even if it is drained, it might contain a small amount of frozen water that jams the rotor.

Before winter lay-up

Before freezing conditions:

- Disconnect suction hose from water supply (seawater supply).
- Open the spray nozzle.
- Run the pump until remaining water is expelled.
- Disconnect inlet and outlet tubes.
- Run the pump briefly to confirm that water has been expelled.
- Spray nozzles should remain open and pump fittings should remain disconnected until temperatures are above freezing.



4.3.15 Sunshades

The boat can be equipped with canvas sunshades to provide shade in the aft and bow of the boat.



The sunshades are only for stationary use and must be stowed away before the boat is driven.

Depending on the boat model, the sunshade poles are stored in spring clips on top of the roof or inside a hatch.

Setting up a sunshade

- 1. String the loops of the sunshade to the ends of the support poles.
- 2. Mount the support poles on the gunwale sockets.
- 3. Connect the canvas clasps to the D-rings on the roof.
- 4. Adjust the tightness of the sunshade so that it's tight.

4.3.16 Canopy

Optional canopy extends the sidewalls of the console. The canopy has plastic see-through windows, and keeps you dry during rain.

The canopy is mounted on the track running around the ceiling close to the edge. The bottom of the canvas is fastened to the male snaps on the hull and deck.

It is recommended to let the canopy dry before it is stored to avoid growth or unpleasant odors forming.

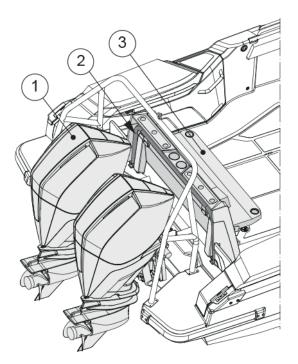
4.3.17 Folding aft leaning post

Optional folding aft leaning post allows you to turn the stern of the boat to the seated area. The folding aft leaning post has a folding bench that tilts from vertical to horizontal position. When folded to vertical position, the folding seat allows you to also use the module as a leaning post, for example when fishing.

Foldable seat should not be used when travelling faster than 5 mph/4 kn.

The aft leaning post must be tilted forward before tilting up the engine(s). By pulling the handle towards the engine(s), the leaning post can be tilted forward out of way of the engine(s). The handle automatically locks the leaning post in place when tilting it all the way forward. To bring the leaning post back in position (only when engine is down), pull the handle towards the engine(s) to release the leaning post, push leaning post towards the engine(s) until it stops, then pull the handle towards the bow to lock the leaning post in place.





(1)	Engine(s)
(2)	Handle
(3)	Bench

Maintenance

To prevent salt build-up and corrosion, it is recommended to wash the leaning post with freshwater often. Clean it with high quality detergents, and wax using car or fiberglass wax. This ensures that the hinge mechanism stays functional and maintains low noise.



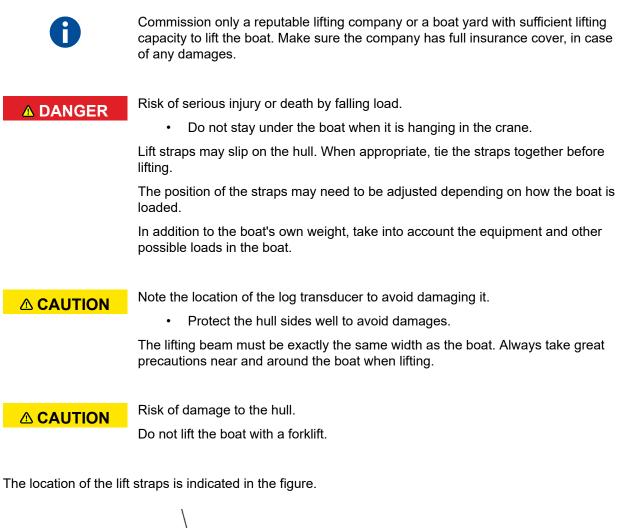
The folding aft leaning post must be tilted down before the engines are tilted up.

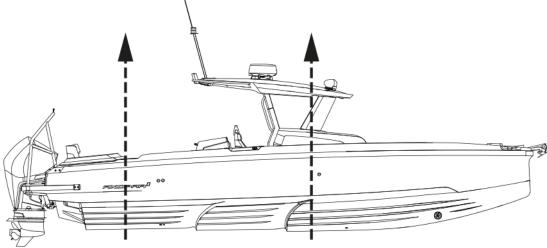


5 Transportation

5.1 Lifting the boat

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







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, engines, 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 engines, 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.

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 engines, fuel and equipment.

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 engines manual for any instructions on trailering.

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- 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 models have been chosen. See the device manuals for further information on the devices.

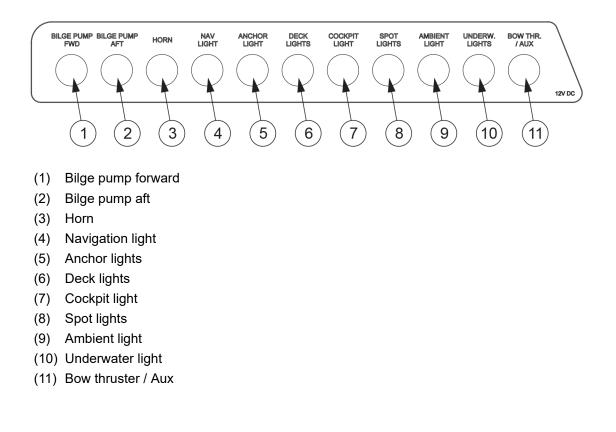
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- (1) Work light switch (optional)
- (2) VHF radio
- (3) Chart plotters (optional)
- (4) Light switch
- (5) Steering console switch panel
- (6) Wiper control switch panel
- (7) Remote main switches
- (8) Audio remote (optional)
- (9) Bow thruster control
- (10) Trim tabs control
- (11) Lanyard switch
- (12) Ignition key
- (13) Navigation on/off switch
- (14) Engine remote control



6.1.2 Steering console switch panel



6.1.3 Windscreen wipers

The boat's windscreen wipers are controlled by the switches in the boat's steering console.

6.1.4 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 nonpower steering systems. Please refer to the collateral manuals provided by the outboard 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.

6.1.4.1 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.



6.1.4.2 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.

6.1.5 Throttle lever

The engine throttle and shift are controlled by the electronic throttle lever. To start the engine, the lever must be in the neutral position. The throttle lever is used to control the engine's RPM which affects the speed of the boat.

Moving the lever forward shifts engine into the forward gear, and moving the lever backwards shifts the engine into the reverse gear. Progressively moving the lever in one direction will increase the speed of the boat in that same direction.

For detailed guidelines about safe boating and component maintenance, please refer to the provided outboard engine literature. If you encounter issues beyond regular maintenance needs, or if noticeable failures occur, please contact your boat dealer immediately for service.

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

6.1.5.1 Trim and tilt

The engine can be raised or lowered with the trim controls in the throttle lever.

Raising and lowering the engine is needed when trailering or launching the boat. Adjusting the trim angle of the engine also allows optimizing the run angle for the boat to achieve optimal performance or fuel efficiency.

When raising the engine(s) all the way, make sure the engines are facing straight aft, and no optional equipment such as foldable seats or aft deck gates are in the way.

Refer to the supplier's manuals for detailed operation instructions, maintenance, and warranty information.

△ WARNING

Raising the engines out of the water without paying attention to surrounding equipment such as aft deck gates, foldable seats or waterski frame may cause damage to the engines.

6.1.6 Starting the engine

See the engine manufacturer's manual for engine information.

- **1.** Set the engine lever in neutral.
- 2. Turn the ignition on and check the fuel level.
- 3. Start the engine by turning the ignition key.



- 4. Check that the gauges for oil pressure and voltmeter show normal values.
- 5. Run the engine to operating temperature at idling speed. Never rev up a cold engine.

▲ DANGER

Risk of carbon monoxide poisoning.

Be aware of the risks with engine exhausts. For example, under turbulence or disadvantageous wind conditions, exhaust can enter the boat. If this happens, avoid idling the engines. If these problems occur under way, do not open the hatches and ventilators, as it can worsen the problems. Instead, you may try solving the problems by changing the boat's speed or weight distribution.

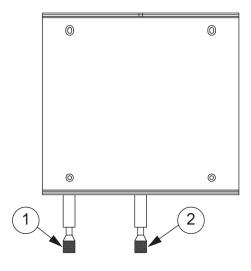
Never step onto the swim ladder when the engine is running. Stop the engine while the steering and propeller are being inspected.

Do not operate this boat with an engine that exceeds the maximum engine power recommended by the manufacturer.

6.2 Swivel seat - Driver and passenger seats

The driver and passenger seats are operated with locking handles.

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 fuel or oil leaks.
- All deck hatches are tightly closed.

Electrical and engine

Check that:

- All the fuses are intact.
- The main switches are switched on.
- The batteries have enough power.
- The engine works properly.
- The engine cooling water flows as expected.
- The fuel level is sufficient.

The specified tank capacity is not necessarily fully available, depending on the trim and load on board. The tank must always be kept at least 20% full.



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.

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 fuel and freshwater in the tanks.
- 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 engines, move away from the jetty by engaging the engine nearer the jetty astern at idling speed and engaging the other engine 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 engine 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.

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- 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.

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 engine 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 engine 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 engine configuration.

- Do not use the boat if it has an engine with a higher power rating than indicated on the capacity plate.
- Do not drive the boat at high speed if the engine'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).

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- 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 engine rev down before shifting between forward and reverse. Otherwise excessive strain is put on the engine, which could cause the engine to stop. In the worst case, sea water may enter the engine.

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 engine 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.

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 engine 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 engine 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 engine. 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.

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.

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.

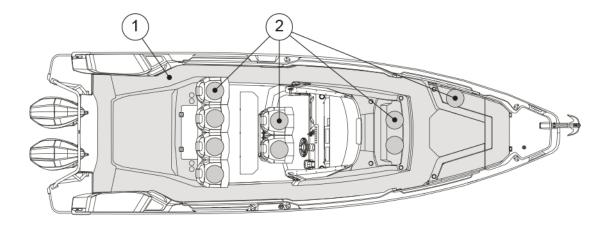
A planing boat always leans into a strong side wind. This reduces the boat's seakeeping qualities, which is why listing to one side needs to be eliminated as far as possible. Lowering the trim tab on the windward side brings the boat back into normal attitude.

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.



- (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

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

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 engine when someone is climbing on board.



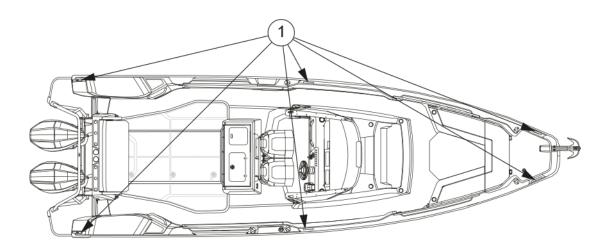
If the sun deck cushions or the front deck table are in place, observe the maximum speed of 15 knots to avoid the cushions or table detaching at speed or in high waves.

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 32.2 kN.
- When mooring the forward force is 26.3 kN.
- When mooring the rearward force is 22.5 kN.



(1) Fastening points

△ CAUTION

The breaking strength of lines shall in general not exceed 80% of the breaking strength of the 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.

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 engine 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".

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

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 vaxing.

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 orbitalmotion buffing machine with a polishing pad.



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.



Do not wet sand a gelcoat surface in direct sunlight.

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



Keep the surface continuously moist while sanding.

- 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 Wooden interiors

The interior details of the boat, such as the locker doors and drawer fronts and wooden strips, are made of oiled wood.

- Clean the wooden interior details with a damp cloth and a small amount of soapy water.
- Treat the wooden surfaces again every year to protect the wood.

7.3.2 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.

7.3.3 Fabrics

The interior fabrics are washed according to separate washing instructions (marking on the fabric). In case the marking is not visible:

- **1.** Wash in 40°C with a light spin cycle.
- 2. Hang to drip dry.

The material may slightly shrink. If you want to avoid shrinking, take the fabrics to a dry cleaner.

7.3.4 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.



7 Maintenance

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, 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 engines 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.



- Make sure that there is no water beneath the fuel tank. Any water present can be extracted using the suction pipe that is attached to the tank's exterior.
- Make sure that the rubber O-ring between the fuel tank inlet and the fuel tank cap is intact. Otherwise there is risk of water getting inside the fuel tank.

NOTICE

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

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, engine 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 tine 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.

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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 revs possible, taking the prevailing conditions into account, to avoid unnecessary emissions and noise.
- Make sure that the is properly serviced at regular intervals so that noise and emission levels are minimized.
 - Read the 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!

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 Guardcertified 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 engine

- Stop the engine.
- 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.
- Extinguish the fire.
- Wait until fully certain that the fire has been extinguished before opening the engine cover.

Carefully open the engine 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: 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 fuel or oil leaks.
- All deck hatches are tightly closed.

Electrical and engine

Check that:

- All the fuses are intact.
- The main switches are switched on.
- The batteries have enough power.
- The engine works properly.
- The engine cooling water flows as expected.
- The fuel level is sufficient.

The specified tank capacity is not necessarily fully available, depending on the trim and load on board. The tank must always be kept at least 20% full.

9.4 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.

9.5 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 fuel and freshwater in the tanks.
- 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.

9.6 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 engine 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".

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.

9.7 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.
- Make sure that there is no water beneath the fuel tank. Any water present can be extracted using the suction pipe that is attached to the tank's exterior.
- Make sure that the rubber O-ring between the fuel tank inlet and the fuel tank cap is intact. Otherwise there is risk of water getting inside the fuel tank.

NOTICE

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

9.8 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, engine 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.

9.9 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.



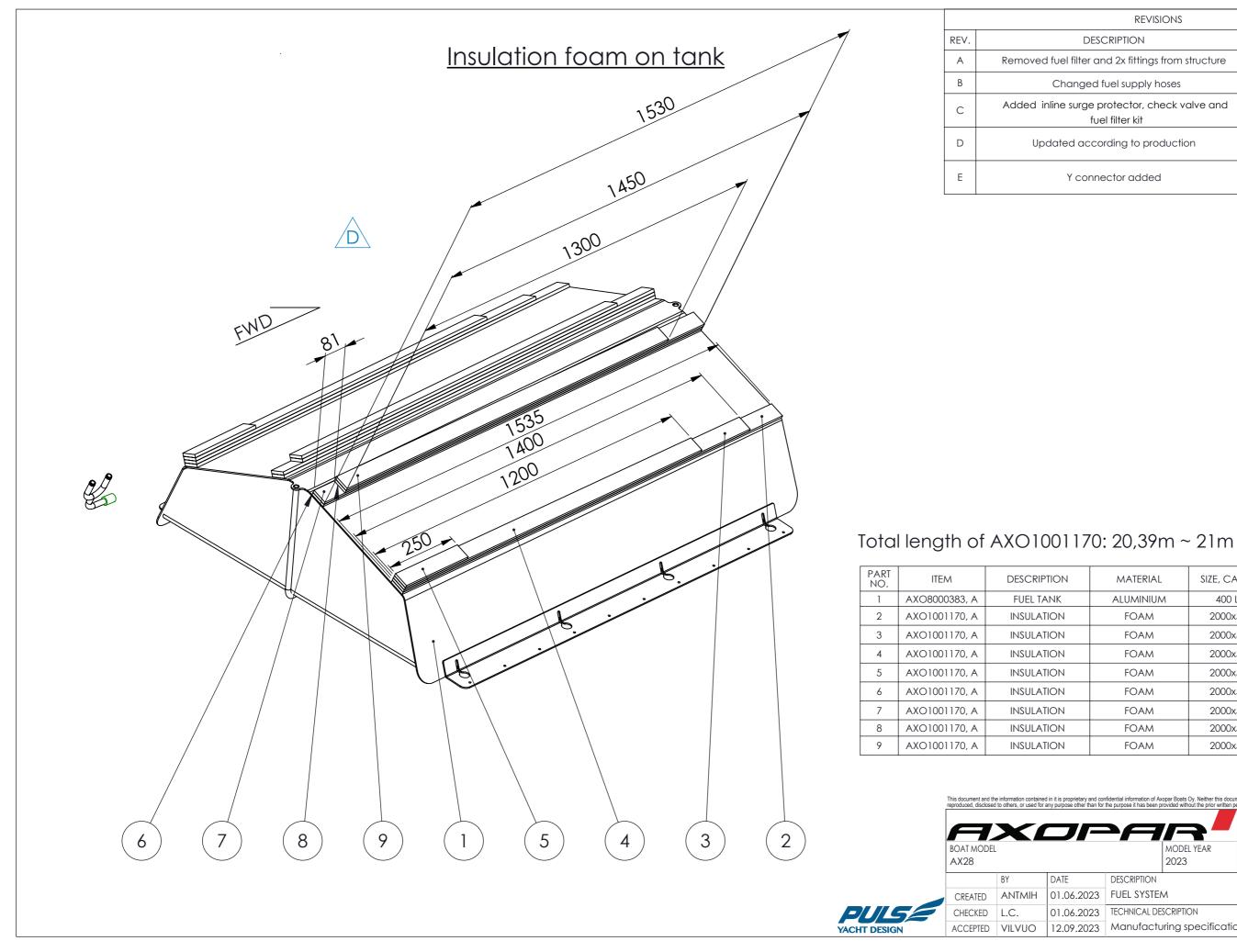
MAINTENANCE LOG	Frequency				
Task to be performed	Every trip	Every month	Every 3 months	Every 6 months	Annually
Bilge system Remove, clean and inspect bilge pump, check valve and its surroundings for damage or debris that may reduce the performance of the pump	•				
Waste system - Replace the no-smell 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				•	

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10 Appendix II: Fuel system

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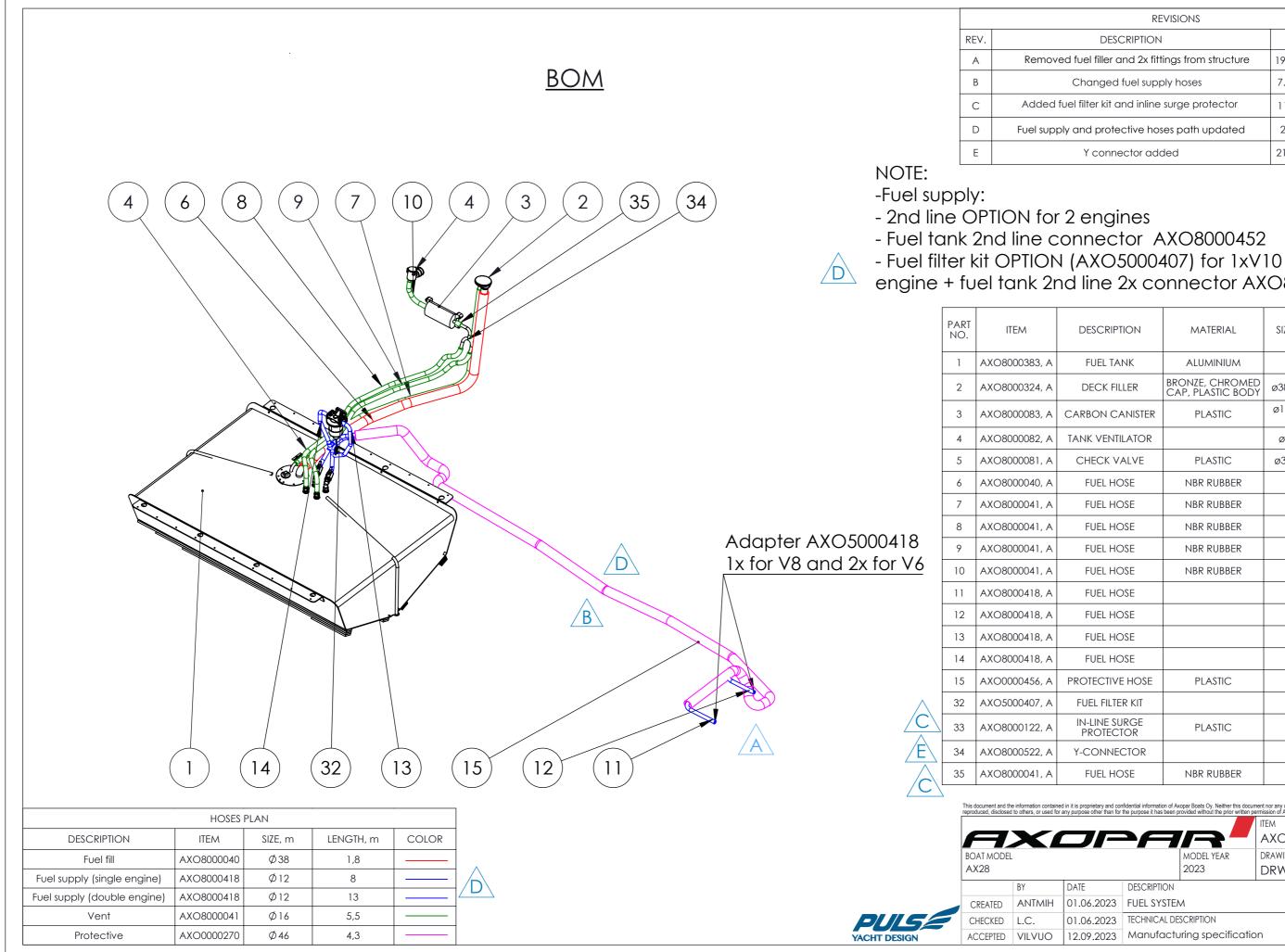
10.1 Fuel system: USA (EPA)



REVISIONS		
DESCRIPTION	DATE	APPROVED
el filter and 2x fittings from structure	19.10.2023.	AJu
hanged fuel supply hoses	7.12.2023.	
e surge protector, check valve and fuel filter kit	11.3.2024	
ed according to production	2.8.2024.	
Y connector added	21.1.2025.	

4	MATERIAL		size, ca	PACITY	LEN (m		QTY.
	ALUMINIUN	٨	400 l	ITER	-	-	1
1	FOAM		2000x	50x10	15	35	2
1	FOAM		2000x	50x10	14	00	2
1	FOAM		2000x	50x10	12	00	2
1	FOAM		2000x	50x10	25	50	2
1	FOAM		2000x	50x10	15	30	2
1	FOAM		2000x	50x10	15	30	2
1	FOAM		2000x	50x10	14	50	2
1	FOAM		2000x	50x10	13	00	2
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		MODE	YEAR	DRAWING		F	REV
		2023		DRW01	195		E
Έ	DESCRIPTION					SCALE	PAGE
06.2023	3 FUEL SYSTEM	Λ				1:10	1/4

ATE	DESCRIPTION	SCALE	
.06.2023	FUEL SYSTEM	1:10	
.06.2023	TECHNICAL DESCRIPTION		
2.09.2023	Manufacturing specification		



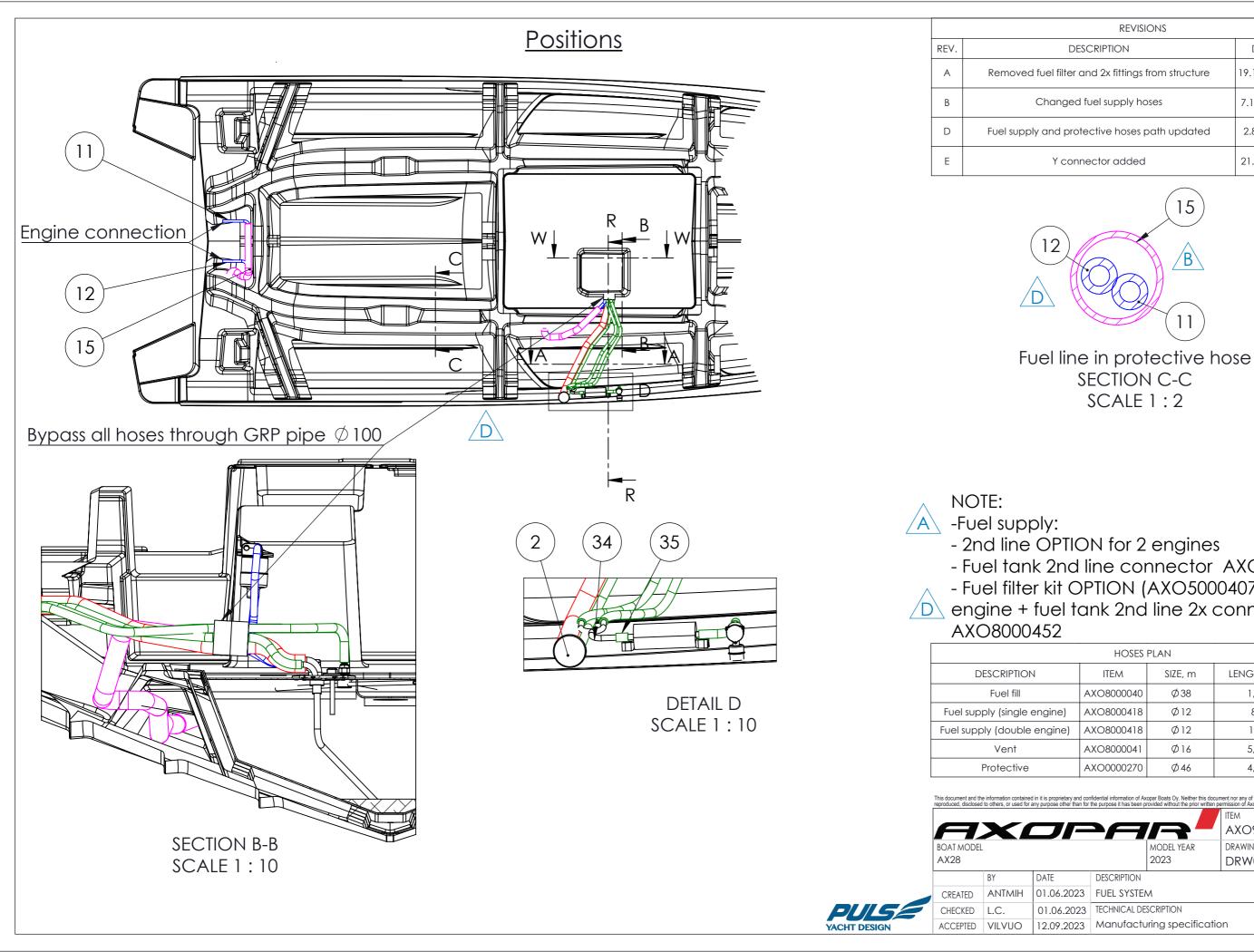
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7.12.2023	
11.3.2024	
2.8.2024	
21.1.2025.	
	19.10.2023 7.12.2023 11.3.2024 2.8.2024

engine + fuel tank 2nd line 2x connector AXO8000452

DESCRIPTION	MATERIAL	SIZE, CAPACITY	QTY.
FUEL TANK	ALUMINIUM	400 LITER	1
DECK FILLER	BRONZE, CHROMED CAP, PLASTIC BODY	ø38MM / ø16MM	1
RBON CANISTER	PLASTIC	ø16MM/ ø16MM (5/8'' - 5/8'')	1
NK VENTILATOR		ø16MM, (5/8'')	1
CHECK VALVE	PLASTIC	ø38MM, (1-1/2'')	1
FUEL HOSE	NBR RUBBER	ø38	1
FUEL HOSE	NBR RUBBER	ø16	1
FUEL HOSE	NBR RUBBER	ø16	1
FUEL HOSE	NBR RUBBER	ø16	1
FUEL HOSE	NBR RUBBER	øl6	1
FUEL HOSE		ø12.7	1
FUEL HOSE		ø12.7	1
FUEL HOSE		ø12.7	1
FUEL HOSE		ø12.7	1
OTECTIVE HOSE	PLASTIC	ø54 / ø47	1
FUEL FILTER KIT			1
N-LINE SURGE PROTECTOR	PLASTIC	ø16	1
-CONNECTOR			1
FUEL HOSE	NBR RUBBER	ø16	1
FUEL HOSE	NBR RUBBER	øl6	1

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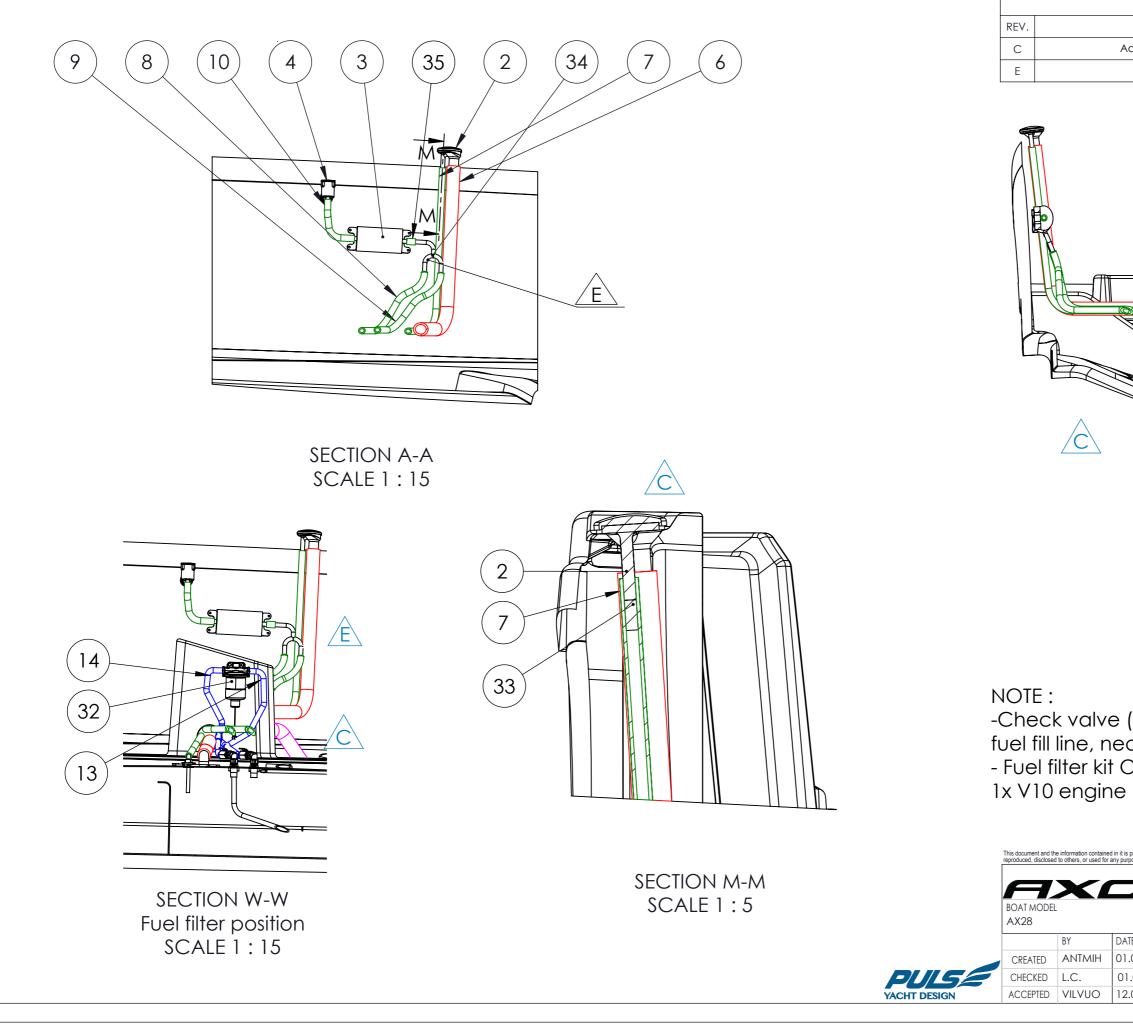
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52								
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gine)	AXO8000418	Ø12	8					
gine)	AXO8000418	Ø12	13					
	AXO8000041	Ø16	5,5					
	AXO0000270	Ø46	4,3					
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.06.202	.06.2023 TECHNICAL DESCRIPTION				6			
09.2023 Manufacturing specification								

- Fuel tank 2nd line connector AXO8000452

REVISIONS		
DESCRIPTION	DATE	APPROVED
el filter and 2x fittings from structure	19.10.2023.	AJu
anged fuel supply hoses	7.12.2023.	
nd protective hoses path updated	2.8.2024.	
Y connector added	21.1.2025.	



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ar tank connection, aprox 200 mm DPTION (AXO5000407) for proprietary and confidential information of Axoper Boats Oy. Neither this document nor any of the information contained herein mey be proprietary and confidential information of Axoper Boats Oy. Neither this document nor any of the information contained herein mey be proprietary and confidential information of Axoper Boats Oy. Neither this document nor any of the information contained herein mey be Image: Control of Axoper Boats Oy. Neither this document nor any of the information contained herein mey be Image: Control of Axoper Boats Oy. Im	SECTION R-R Check valve		
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09.2023 Manufacturing specification			
-	09.2023 Manufacturing specification		

11 Appendix III: Electrical diagrams

12 Appendix IV: AIS Decontamination – North America

According to

ABYC T-32 Design and Construction in Consideration of Aquatic Invasive Species 7/21 © 2021 American Boat & Yacht Council, Inc



Table of Contents

1 Decontamination criteria based on UMPS III, Table 3	. 3
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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	
	Hull	140°F	10	High pressure spray ²⁾	Adult	
Exterior	Trailer	140°F	70	Low pressure spray ³⁾	Adult	
	PFDs, anchor, paddle	140°F	10	Low pressure spray	Adult or Veliger	
Propulsion	Gimbal	140°F	132	Low pressure spray	Adult	
system	Engine	140°F ⁵⁾ , ⁶⁾	See note ⁷⁾ .	Flush ⁶⁾	Veliger	
	Ballast tanks	120°F	130	<i>Low risk</i> – Flush ⁴⁾	Veliger	
Interior				130	<i>High risk</i> – Fill and flush	tongo.
	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 aquatichitchhikers. 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.

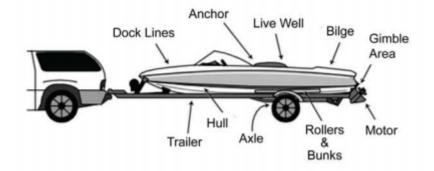
Drain

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.

13 Appendix V: Transport dimensions



AXOPAR 29 CCX

