Operation Manual

Fantasea Lagoon 4.2
2020

Control Panel

1 - Water heater 220 V power switch.
2 - Voltmeter / 220 V.
3 - Battery charger switch.
4 - Internal lighting switch.
5 - Auxiliary unit (electro valve for U.S. version).
6 - Refrigerated unit switch.
7 - Deck floodlight switch.
8 - Navigation instruments switch.
9 - LCD screen.
10 - 220 V socket switch.
11 - Line-reversing switch (US version).
12 - 12 V socket.
13 - Pressure water pump switch.
14 - Bilge pump switch.
15 - Anchorage light switch.
16 - Engine light switch.
17 - LCD screen control (fresh water / fuel gauge, voltmeter, ammeter, battery alarm).

Yacht Control Panel Overview

The yacht control panel is an essential electronic device that allows remote control of various onboard systems, including:

✅ **Windlass** (anchor control)

✅ **Thrusters** (maneuvering assistance)

✅ Navigation lights

✅ Alarms & video surveillance

✅ Windshield wipers

✅ **Engines** and fuel, water, and oil levels

✅ Generators and other equipment

Why the control panel is important:

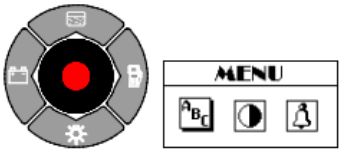
- Monitors the yacht's health – Ensures all systems are functioning properly.
- Keeps you safe – Provides control over critical safety features and alerts.

Batteries / Water/ Diesel Levels

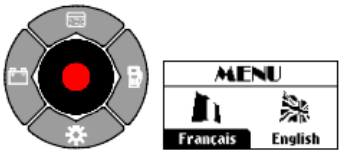
RUNNING OF THE PANEL

Choose the language

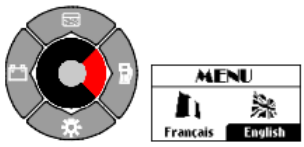
To get in the menu, press on the central button.



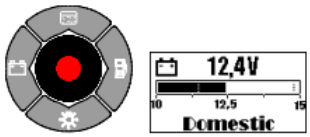
To select the menu « Languages », press again on this central button.



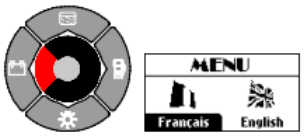
To select the English language, press on the right button.



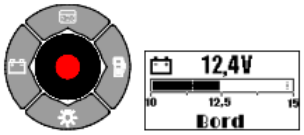
To validate, press on the central button: you then have once again the voltages displayed on the screen.



To select the French language, press on the left button.

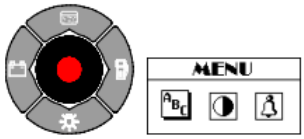


To validate, press on the central button: you then have once again the voltages displayed on the screen.

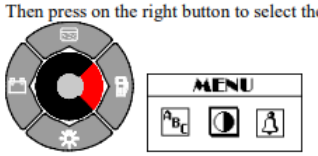


Adjustment of the contrast of the screen

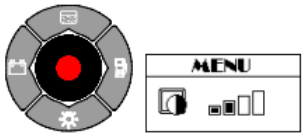
To get in the menu « Contrast », press on the central button,



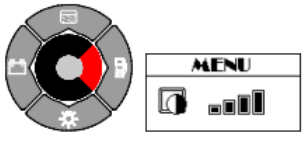
Then press on the right button to select the menu.



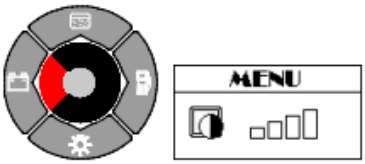
To validate, press on the central button. The menu « Contrast » is then displayed on the screen.



To increase the contrast, press on the right button.



To reduce it, press on the left button.

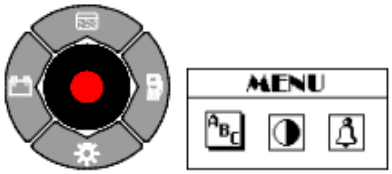


To get out of the menu and save the new setting, press on the central button.

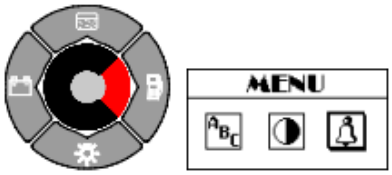
To get out of the menu without saving the new setting, press on the lower button.

Activate / Deactivate the sound alarms for the voltage of the batteries

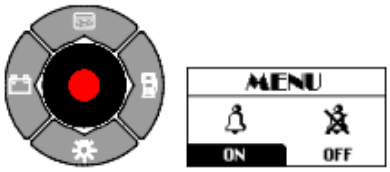
To get in the menu, press on the central button.



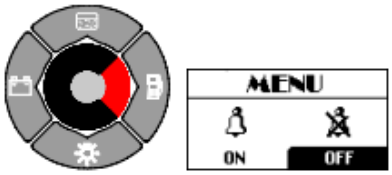
To select the menu « Alarm », press twice on the right button,



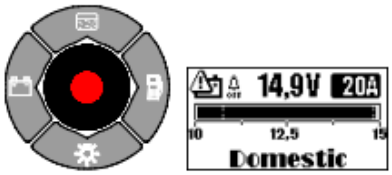
Then to validate, press again on the central button. The menu « Alarm » is then displayed on the screen.



To deactivate the sound alarms for the voltage of the batteries, press on the right button,

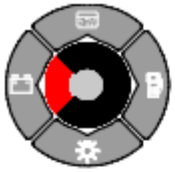


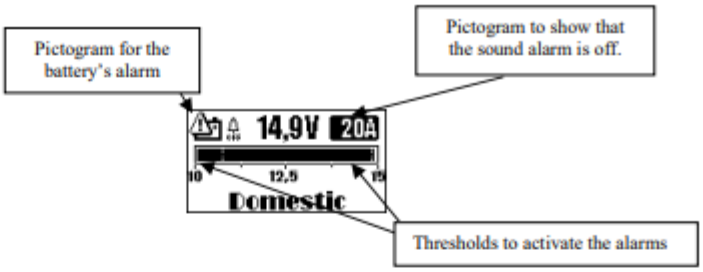
Then, to validate, press again on the central button. The voltages are then once again displayed on the screen.



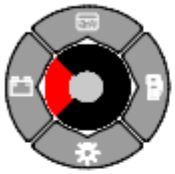
Display of the voltages of the batteries

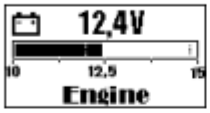
DOMESTIC Battery



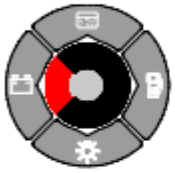


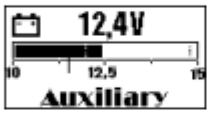
ENGINE Battery





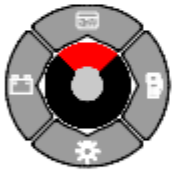
AUXILIARY Battery

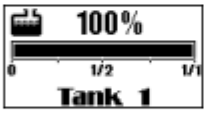




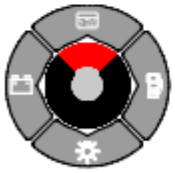
Display of the water tanks' levels

Tank 1

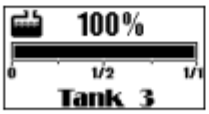




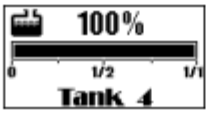
Tank 2



Tank 3

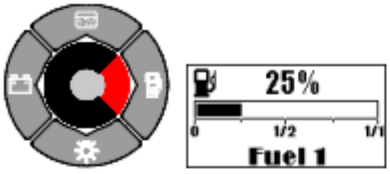


Tank 4

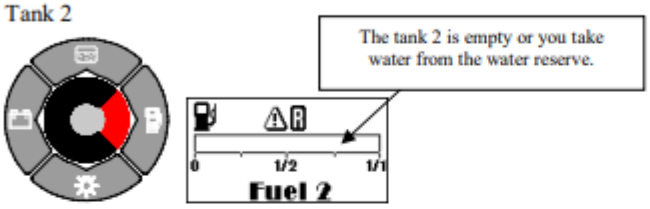


Display of the fuel tanks' levels

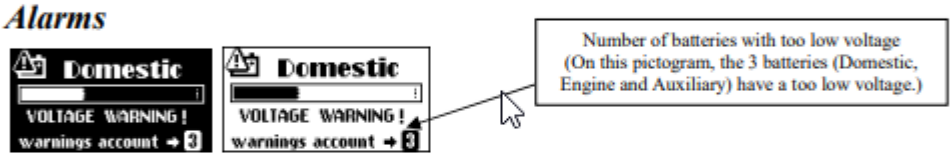
Tank 1



Tank 2

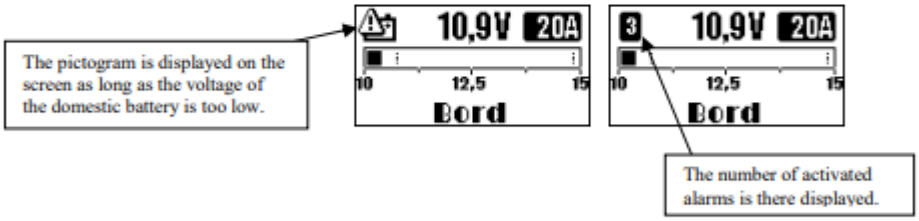


Alarms



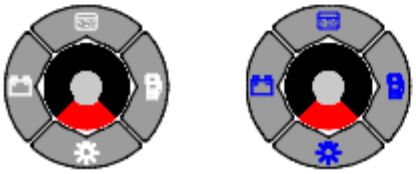
+ Sound alarm (if it is not off)

If you press on one of the 5 buttons, it stops the sound alarm. You then return to the menu "Voltage".



Put on / off the back-light of the pictograms

ON / OFF



Generator

Generator Panel Operation – Symbol/Step Compact Guide

🔌 Switching ON (From Panel)

- ⚡ **Disconnect Shore Power:**
  Unplug the shore power cable (if connected) before starting the generator.
- **Activate Panel:**
  Press the ON/OFF button to power up the control panel.
- ⚙️ **Panel Test:**
  The circuit will self-test automatically. Wait for the LED to indicate control readiness.
- 💡 **Enable Controls:**
  When the LED comes ON, panel controls are active and functional.
- ▶️ **Start Generator:**
  Briefly press the START button (for at least 1 second) to start the generator.

🔴 Stopping (From Panel)

- ⏹️ **Stop Generator:**
  Press the STOP button and wait for the generator to fully stop.
- **Deactivate Panel:**
  Press the ON/OFF button again to turn off the panel controls.

Operation Generator from the Local Panel
(Only in an emergency situation)

Local Panel Generator Start/Stop – Compact Guide

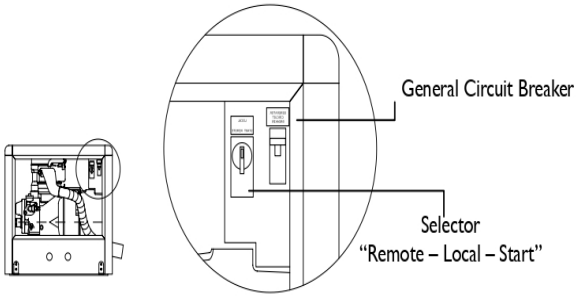
🔎 Locate the Panel

- The **local panel** is different from the dashboard controls.
- Find it in the **bow deck locker**—open the locker to access.

▶️ Switching ON (Local Panel)

- 🔄 Rotate Selector to "Start":
  - Turn the selector further toward the *Start* position to begin the starting cycle.
  - The starting cycle is the same as with the remote panel.

🔄 Restoring Dashboard Controls



- Rotate the selector to **Remote** to re-enable the dashboard controls.
- For generator maintenance or manual use, ensure the selector is in the **Local** position if operating from the local panel.
- The EOS display will show **Automatic Mode**.
  - If the generator was previously started from the dashboard, you can stop it via the local panel by turning the selector to Local.

⏹️ Stopping the Generator (Local Panel)

- Prepare for Shutdown:
  - Disconnect all connected applications.
  - Switch on the circuit breaker.
  - Let the system run with no load for about 1 minute.
- 🔄 Rotate Selector to "Local":
  - Return the selector to the Local position to switch off the generator.
- ⚫ Move Black Plastic Cap:
  Slide to the right (starboard side).

🔄 Switching to Shore Power (220V)

🔌 **To Use Shore Power:**

- Plug in the shore power cable.
- Set **SHORE POWER** switch to ON.

❌ To Close the Generator Without Using Shore Power:

- Keep the **SHORE POWER** switch in the OFF position.

Air Condition-Webasto / AC

❄️ Air Conditioning Usage Guide

⚡ **Power Requirement**

To use the air conditioning, ensure the boat has **220V power**. This can be supplied in two ways:

- 🔌 **Shore Power Cable:** Connect to an external power source.
- ⚡ **Generator:** Start the generator to produce 220V power onboard.

COOL Air Conditioning Units

- 🛏️ **4 AC Units:** One per cabin

Notes

- It is recommended to operate the screen with your fingers. The touch sensitivity of the screen is optimised to direct contact with the fingers. The screen may not respond to touch if gloves are worn.
- Tapping outside the touch-sensitive area at the edge of the screen may not be recognised.

4 Home screen and symbols

There is a choice of 3 different designs of the Home screen with temperature and fan setting. The functions are the same.

To change the design (in settings menu) see „9.1 Selecting Settings menu" on page 6.

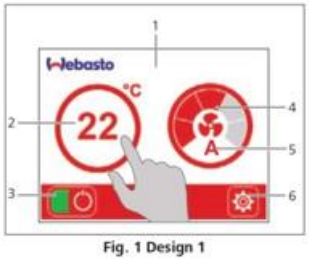


Fig. 1 Design 1

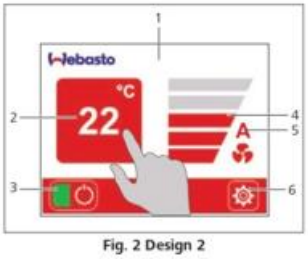


Fig. 2 Design 2

Fig. 3 Design 3

The illustrations show examples of design 1 to 3.

1 Home screen
2 Temperature setting
3 ON/OFF
4 Fan display
5 Automatic mode indicator (only in automatic mode)
6 Settings

The symbols on the Home screen provide information on the system status. The symbols are explained in the table below:

	Symbol	Meaning
1		On/Off
2		Temperature
3		Fan
4		Settings
6		Notification
7		Increase values
8		Decrease values
9	AUTO or A	Automatic setting
10		previous
11	22	Setpoint temperature
12		previous
13		Forward
14		Select
15		Home screen
16		Scroll up
17		Scroll down
18		Display selection

Fig. 4 Meaning of symbols

5 Standby

The screen will go to Standby mode after 5 minutes if no entries are made on the screen. Tap anywhere on the screen to call up the Home screen.

6 Notification

The notification symbol appears on the bottom status line to draw your attention to the current status of the plant. Tap on the symbol to show the corresponding status message.

7 ON/OFF

– When the screen is switched off:

▶ Tap the screen.

The screen switches on.

– When the screen is switched on:

▶ Tap .

The colour of the ON/OFF symbol indicates the operating status (green = switched on, grey = switched off).

8 Operation

After switching on, the control system starts up the air handler in steps and then assumes normal operation. The control element now shows the current temperature where the temperature sensor of the air handler is installed. Depending on the installation location, this may also be the temperature of another cabin for example.

After approx. 20 seconds, the base colour of the control element changes to indicate the operating mode (cooling or heating) the air handler was started in. Blue indicates cooling mode, red heating mode. The selection is dependent on the set setpoint temperature and the room temperature measured by the cabin temperature sensor. The plant will assume standby mode if the cabin temperature and the setpoint temperature are the same.

Note

- The plant only cools under the following conditions:
  cabin temperature > 15 °C.Set-point temperature < cabin temperature.
- The plant only heats under the following conditions:
  cabin temperature < 29 °C.Set-point temperature > cabin temperature.

To activate cooling or heating mode, the central chiller unit must be switched on and the cold water circuit must have already been sufficiently heated up or cooled down.

In automatic mode the fan remains set to speed 1 until the cold water temperature is lower (cooling) or higher (heating) than the cabin temperature.

In cooling mode, the cold water temperature is significantly below 15 °C and above 40 °C in heating mode.

8.1 Setting setpoint temperature

To set the required cabin temperature:

▶ Tap on the temperature or on the Home screen.

The setpoint temperature appears to the right.

▶ Tap Plus or Minus to increase or decrease the setpoint temperature.
The Settings menu is automatically exited after 30 seconds and the value last set is adopted.

Note

Alternatively:
Save and exit menu immediately:
▶ Tap Previous .

8.2 Setting fan speed

▶ To set the required fan speed tap on Fan on the Home screen.

With automatic mode selected, the symbol A appears on the Home screen. The control system of the air handler automatically adapts the fan speed.

To manually adapt the fan speed:

▶ Tap the fan symbol.

▶ You can now change the displayed fan speed by tapping Plus or Minus .

▶ Tap (A) when you wish to return to automatic mode.

The Settings menu is automatically exited after 30 seconds and the value last set is adopted.

Note

Alternatively:
Save and exit menu immediately:
▶ Tap Previous .

9 System settings

The operating logic is explained based on the Timer function. The explanation also applies to other setting levels or functions.

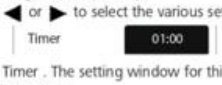
Fig. 5 Example, Settings, setting level 1

To call up settings:

▶ Tap the Settings symbol.

The Settings menu opens up.

▶ Tap or to select the various settings.



▶ Tap Timer . The setting window for this function opens up.

Fig. 6 Timer

▶ Tap to reduce the time interval or tap to increase the time interval.

The ✓ symbol marks the current selection.

▶ Tap on the required time to set the time interval.

▶ Tap the Previous symbol to go to the previous level. The selected settings are then adopted.

or:

▶ Tap the Home screen symbol to return to the Home screen.

The selected settings are then adopted.

9.1 Selecting Settings menu

You can call up the Settings menu from the Home screen:

▶ Tap the Settings symbol.

The Settings menu opens up. The available functions are:

9.1.1 Timer

Sets the start and stop times of the air handler.

With the plant already switched on:

The timer acts as a remaining time counter. The air handler switches off automatically after the set time runs down.

With the plant switched off:

The timer acts as a start timer. The air handler starts up automatically after the set time has elapsed.

It is not possible to program a switch-on and switch-off time at the same time.

9.1.2 Brightness

Adapts the screen brightness to the ambient light levels.

9.1.3 Language

Sets the operating language.

9.1.4 Design

Changes the screen design.

9.1.5 Colour

Adapts the background colour.

9.1.6 Standby

Sets the BlueCool MyTouch display to standby mode. The available functions are:

- **Webasto Logo**
  Shows the Webasto logo.
- **Customer logo**
  Shows the customer logo.
- **Cabin temperature - bright**
  Shows the current cabin temperature at high brightness levels in areas with bright ambient light.
- **Cabin temperature - dark**
  Shows the current cabin temperature at low brightness levels in areas with little ambient light.
- **Display off**
  No display in standby mode.
- **Operation indicator**
  An illuminated dot indicates that the plant is ready for operation.
- **Standby off**
  Home screen remains active.

9.1.7 Key tone

For setting whether the control element makes a sound when you touch the surface of the screen.

9.1.8 °C / °F

Sets the temperature display in degrees Celsius °C or degrees Fahrenheit °F.

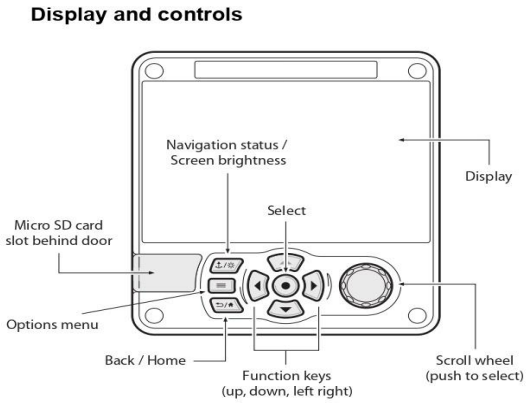
9.1.9 Cleaning

Disables the screen functions for 30 seconds to clean the surface.

Automatic Identification System (AIS)

Button Functions

Main Controls



- Scroll Wheel
- Highlights and selects information on the display.
- Can be pressed to confirm entries or select menu options.
- Navigation Status / Screen Brightness Key
- Short press: Opens the Navigation Status screen.
- Long press: Opens the Display Brightness adjustment screen.
- Options Menu Key
- Accesses additional features and shortcuts relevant to the current screen.
- Back / Home Key
- Short press: Cancels the current operation and moves to the previous menu.
- Long press: Returns to the home screen.
- Select Key

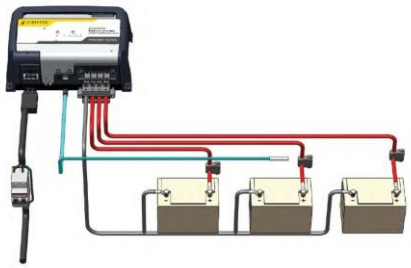
- Confirms the highlighted option.
- Up, Down, Left, Right Function Keys
- Enable navigation around the screen using alternative means.

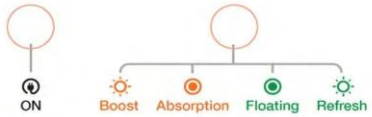
Battery Charger Location

Battery Charger (Cristec Charger) Overview

A **battery charger** (or recharger) is a device that **stores energy** in a battery by running an electric current through it.

The **Cristec Charger** ensures **maximum power supply** with **auto-ranging**, meaning it can adapt to different voltage inputs wherever you are.





INDICATORS		STATE	MEANING
Green LED 1 "ON"		On	Charger is ON
		Off	No or poor quality AC current Input fuse is blown Internal charger malfunction
Orange LED 2 "BOOST/ABSORPTION"		Flashing (1 sec. ON, 1 sec. OFF)	Charger in BOOST phase (switch E = '1')
		On fixed	Charger in ABSORPTION phase (switch E = '1')
Green LED 2 "FLOATING/REFRESH"		On fixed	Charger in FLOATING phase
		Flashing (1 sec. ON, 1 sec. OFF)	Charger in REFRESH phase (switch F = '1')
		Off	Internal charger malfunction or output fuse blown

Radio

How the Radio Works

Radio communication operates by transmitting and receiving electromagnetic waves.

🔷 Transmission:

✅ A **radio signal** is an electronic current that moves back and forth rapidly.

✅ A **transmitter** sends out this signal via an **antenna**.

🔷 Reception:

✅ A **receiver** picks up the transmitted waves.

✅ The signal is then converted into **sound**, which is heard through the radio speaker.

Dial / Knob

- **Turn:** Adjusts volume.
- **Press:** Switches between zones.
- **Hold (1+ sec):** Adjusts subwoofer levels.
- **Turn:** Navigates menus or adjusts settings.
- **Press:** Selects highlighted option.

Menu and Navigation

- **Menu Button:** Opens menu.
- **Back Arrow:** Returns to the previous screen or menu.
- **Source Button:** Changes audio source.

Track and Station Controls

- ⏮ Previous / Rewind Button:
  - Skips to the previous track.
  - AM/FM: Tunes to the previous station (hold for faster manual tuning).
  - AUX: Decreases gain.
  - DAB: Returns to previous DAB station; cycles within available stations.
- ⏭ Next / Forward Button:
  - Skips to the next track.
  - AM/FM: Tunes to the next station (hold for faster manual tuning).
  - AUX: Increases gain.
  - DAB: Advances to the next DAB station; cycles within available stations.

Power and Mute

- Power Button:
  - Turns stereo on.
  - Hold to turn off.
  - Mutes/stops stereo when on.

Play / Pause / Tuning

- Play/Pause Button:
  - Pauses or resumes playback.
  - Tuning Modes:
    - AM/FM: Cycles tuning modes (auto/manual).
    - Hold to save as preset.
    - DAB: Saves station or scans for DAB stations.

VHF

VHF Transceiver Overview

A **Very High Frequency (VHF) transceiver** is a communication device that includes both a transmitter and a receiver, operating in the **30 MHz to 300 MHz** frequency range.

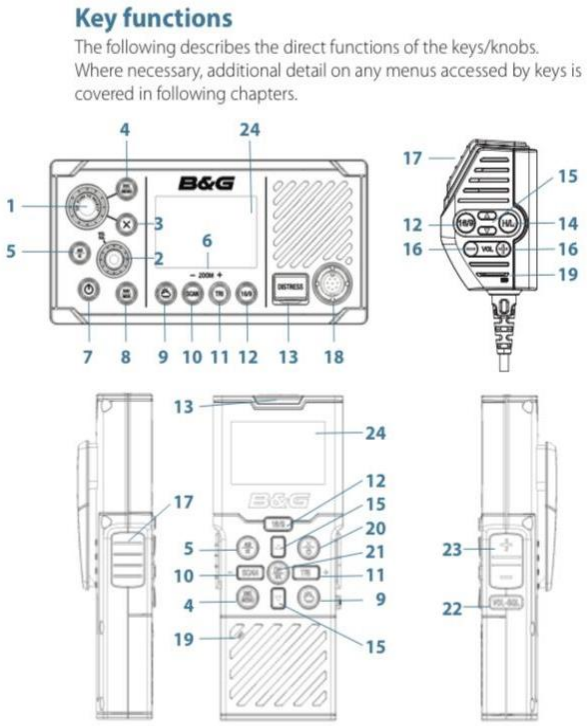
🔷 **Key Features:**

✅ **Frequency Range**: 30 MHz – 300 MHz

✅ **Wavelength**: 1 meter (39.37 inches) to 10 meters (393.70 inches), depending on the frequency used

✅ **Used for**: Marine communication, aviation, emergency services, and broadcasting

⚠️ **Tip**: Ensure the VHF radio is set to the correct **channel and frequency** for clear and effective communication.



📋 **Main Controls:**

1. Channel Knob / Press to Select – Turn to select channels, scroll menus, enter alphanumeric values, and adjust backlight level.

- **Short press:** Confirm selections
- **Long press:** Open “MY CHANNELS”.

2. 🔊 **VOL / SQL (Volume & Squelch)** – Adjusts volume and squelch levels.

- **Short press:** Toggle between volume and squelch (indicated by a small triangular arrow).
- **Turn clockwise:** Increase setting.
- Turn counterclockwise: Decrease setting.
- **Long press:** Open "SHORTCUTS."

3. ❌ **X (EXIT)** – Exit menus, clear incorrect entries, or return to the previous screen.

📻 Radio & Handset Functions:

12. 🔴 16 (Priority Channel)

- **Short press:** Switch to priority channel (default: CH16).
- **Press again:** Return to the previous channel.

13. 🚨 DISTRESS (Emergency Call)

- **Short press:** Select distress type from a list.
- **Long press:** Send an 'undesignated' distress call, alerting all DSC-equipped radios within range (includes position info if available).

15. 🔼🔽 Channel Change (Handset Mic & Wireless Handset)

- **Short press** (🔼): Move up one channel.
- **Short press** (🔽): Move down one channel.
- **Hold**: Rapidly scroll through channels.

16. 🔊 VOL +/- (Volume) (Handset Mic Only)

- **Short press (+):** Increase volume.
- **Short press (−):** Decrease volume.

17. 🎙️ PTT (Push-to-Talk) (Handset Mic & Wireless Handset)

- **Press & hold:** Transmit message. The radio cannot receive while transmitting.

18. 🎤 Handset Microphone (Front Connection)

- Plug in the removable microphone to the front or rear of the radio.

19. 🎙️ MIC (Microphone) (Handset Mic & Wireless Handset)

GMDSS / AIS

Dual Energy Power Supply & Battery Charger – Compact Guide

- ✅ Main Functions:
  - Charge & maintain lead-acid batteries
  - Provide uninterrupted power (main/backup)
- ⚡ Key Features:
  - Stable power for onboard systems
  - Supports both main & backup needs
  - Prolongs battery life with optimal charging
- 🛠️ Applications:
  - Marine, RVs, automotive, emergency, telecom
- 🔒 Protections:
  - Overcharge, reverse polarity, short circuit

General Switches

Battery Master Switch Overview

- The **battery master switch** has two key functions:
  - ✔ **Battery Isolator:** Disconnects the battery to prevent electrical drain when not in use.
  - ✔ **Theft Deterrent:** Can disable the electrical system to prevent unauthorized operation.

Key Features Overview

- Common Applications:

Suitable for marine, transportation, and automotive uses.

- Durability:

Built with impact-resistant housing for enhanced reliability.

- Security:

Equipped with a detachable key for added security and theft prevention.

Service / Engine

Battery Switches – Compact Guide

🟩 Controls:

Manage both service and engine batteries.

🛠️ Locations:

◀️ Port engine room: 1 switch

▶️ Starboard engine room: 1 switch

Thermal Fuses

⚡ Fuses in Electrical Circuits

Purpose:

- Interrupt electricity flow if current is too high, protecting wiring.

Placement:

- After circuit breakers (for extra protection)
- Never use in-ground conductors (to keep grounding safe)

⚡ Fuse – Operation & Use Quick Guide

🚨 Operation:

When too much current flows, the fuse "blows" (interrupts the circuit) to prevent damage or fire hazards.

💡 Use Summary:

Installed in electrical circuits as a safety measure.

Protects individual circuits or entire installations by breaking the circuit under fault conditions (overload or short circuit)

12V Control Panel / Bilge Pump / Vhf / Boiler / AC

Fuse Locations – Quick Guide

Most fuses can be found in the following locations:

- 🔦 Under the Control Panel:
  - Most fuses are located underneath the control panel.
- 🏠 Living Room Corner:
  - Additional fuses can be found in the corner of the living room.

Anchor Thermal Fuse

Fuse Identification & Reset Procedure – Compact Guide

🔲 Fuse Overview

- Left Fuse: Windlass
- **Middle Fuse:** Electric Winch
- Right Fuse: Inverter

🔄 Resetting a Fallen Fuse

- **Indicator:** Yellow plastic in the 0 (zero) position (almost vertical) shows the fuse has fallen.
- Reset:
  - Press the yellow plastic **down** using your fingers.
  - Push until it reaches the horizontal 1 (one) position and clicks into place.

✅ Test Operation

Batteries Location

🔋 Battery Overview (with Symbols)

⚡ Energy Storage & Conversion:

- A battery stores chemical energy and transforms it into electrical energy.

🔄 Chemical Reactions:

- 🟦 Electron Flow: Electrons move from one electrode to another via an external circuit.
- 🔌 This movement of electrons creates an electric current.

🔋 Usage:

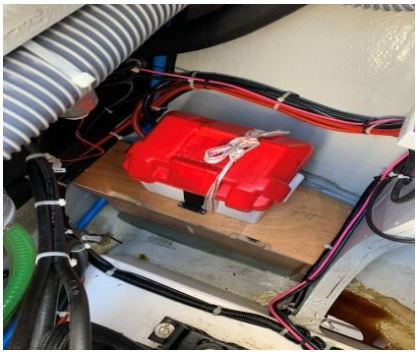
- The generated current is used to power various devices.

Service

Service Battery Location – Summary

- Service Batteries:
  Found in the stern starboard engine room.
- **Engine Room Details:**
  The **stern starboard engine room** is at the **rear (stern)** on the right-hand (starboard) side of the vessel.

Engine



Engine Batteries Location – Quick Guide

Stern Starboard Engine Room:

- One engine battery is located at the **rear** (stern), on the **right side** (starboard) of the vessel.
- Stern = rear of the vessel; starboard = right side when facing forward.

Port Engine Room:

- The other engine battery is found in the **port engine room**—that is, the **left side** (port) of the vessel.
- Port = left side of the vessel when facing forward.

Water System

💧 Freshwater Pumps Overview

⚙️ **Function:**

- Delivers water to fixtures onboard the boat.

🚿 **Pressurized Water System:**

- Provides water "on tap" for **dishwashing**, **showers**, and other applications.

🌟 **Benefit:**

- Enhances onboard comfort and convenience.

Location of freshwater pump

📍 Fresh Water Pump Location – Quick Reference

- Fresh Water Pump:

Located in the port engine room of the vessel.

- Engine Room Details:

The port engine room is found on the port (left) side of the vessel when facing forward.

Location bilge pump

Bilge Pump System Overview

🛠️ **Function:**

- A **bilge pump** removes bilge water from the yacht to keep it dry and safe.

📍 **Locations:**

- This yacht is equipped with **4 bilge pumps**.

⚡ **Operation:**

- 💡 **Automatic System:** Bilge pumps operate automatically when needed.
- ✅ **Always ON:** Keep the corresponding bilge pump button switched ON at all times.

Operation of the toilet

Toilet Operation & Importance

🛠️ Function

- The toilet is **one of the most used** pieces of equipment on your boat.
- **Correct operation** is vital for both **safety & comfort** of the crew and vessel.

⚡ Important Notes

- 🌱 Use Marine-Friendly Toilet Paper to prevent clogs.
- 🚫 **Never Flush Non-Biodegradable Items** (e.g., wipes, paper towels, plastic).
- 💧 **Ensure Proper Water Flow** when flushing to maintain system efficiency.

Toilet Flush Options Overview

🚽 Flush Modes

Half Flush:

- ⏳ Duration: 5 seconds
- 💧 Water Usage: ~2 liters
- ✅ Ideal for liquid waste (saves water)

Full Flush:

- ⏳ Duration: 10 seconds
- 💧 Water Usage: ~4 liters
- ✅ Used for solid waste (ensures proper flushing)

Operation of shower pumps

Automatic Shower Pump Operation

⚡ Automatic Functionality:

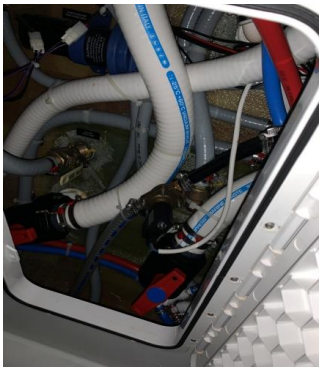
- The shower pumps are fully automatic; no need to open or manually adjust anything.

🌟 Ease of Use:

- They operate seamlessly, supplying water without extra steps.

Operation / Location of waste valves

Waste Valve Operation – Compact Guide



🛠️ Stop-and-Waste Valve Function:

- Prevents freezing by draining residual waste from the system12.

Controls waste flow:

- Closed (Vertical): Waste goes to the tank.

- Open (Parallel): Tank empties to the sea (only where legal)34.

📍 **Valve Locations:**

- Stern Left Cabin: Open floor locker before toilet entrance.
- Stern Right Cabin: Locker under toilet door.
- Generally: One tank and valve serve two toilets.

Oven/Stove

🔥 Oven Control Quick Guide

- 🔌 **Power:** Turn on/off with the main button or knob
- ⚙️ **Mode:** Select Bake, Grill, or Warm
- 🌡️ **Temperature:** Adjust with dial or buttons
- ⚠️ **Safety:** Preheat oven; use oven-safe cookware; turn off after use

Location of gas valves inside

Gas Inlet Insulation in the Kitchen – Quick Guide

- 📍 **Location:**
  Next to the oven, open the right-side cupboard to access the **gas outlet valve**.
- 🔧 Valve Operation:
  - 🔒 **Open:** Valve **parallel** to the pipe → Gas **is flowing**.
  - 🔒 Closed: Valve perpendicular to the pipe → Gas is shut off.
- ⚠️ **Safety Tip:**
  Always **turn off the gas** when not in use and regularly check for **leaks** or **unusual odors**.

Fridge

❄️ Proper Refrigerator Use – Best Practices (with Symbols)

- 🕒 **Pre-cool before the trip:**
  Turn on the refrigerator while connected to power before departure for optimal cooling
- 🧊 **Use pre-chilled products:**
  Place already frozen or chilled items inside to reduce the fridge's workload and maintain low temperatures
- 🚪 **Minimize door openings:**
  Every time you open the door, warm air enters, forcing the fridge to use more energy to stay cold
- 📦 **Fill the fridge properly:**
  A full fridge preserves temperature better, but don't overfill—maintain airflow for efficient cooling. If not full, use ice packs or frozen water bottles to help stabilize the temperature

Engine

🚨 Emergency Engine Shut-Off Procedure

- ⚠️ For emergency use only!

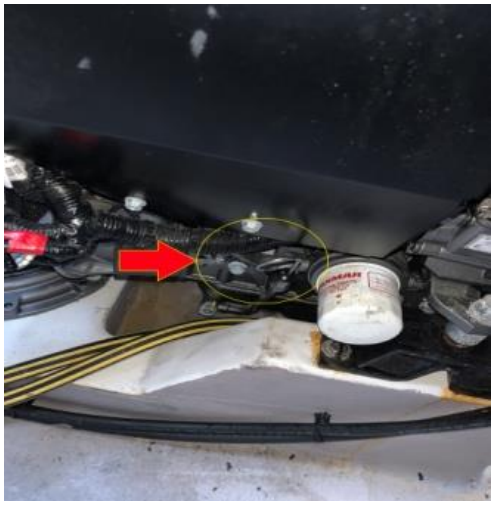
📍 Location:

- Stern port or starboard engine room
- Reference image available to match the engine type

🛑 How to Shut Off the Engine:

1. 🔴 Locate the red button on the engine.
2. ⬇️ Press the red button down.
3. ⬅️ Rotate the button to the left to shut off the engine.

Engine oil check



🛢️ Checking Engine Oil – Quick Guide

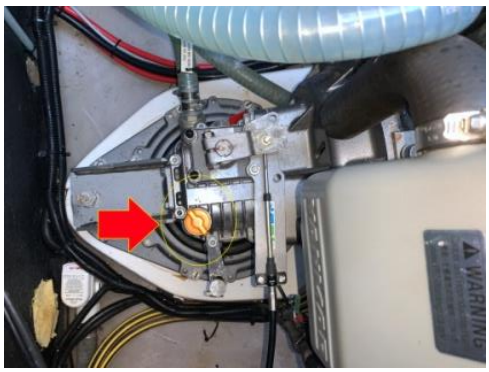
📍 Location:

- Left side of the engine (see reference image).

🔧 How to Check the Oil Level:

1. 🔌 Ensure the engine is **off & cool**.
2. 🔍 **Locate** the dipstick on the left side.
3. 🧻 **Remove** the dipstick & **wipe clean**.
4. 🔁 **Reinsert fully**, then remove again to **check level**.
5. ➕ If low, **add oil** with the correct type.

Saildrive oil check



🛢️ Checking Saildrive Oil – Quick Guide

📍 Location:

- Inside the engine room, usually at the back of the motor, you'll find the saildrive oil dipstick.

🔧 How to Check Saildrive Oil Level

1. **Turn engine OFF:** Make sure the boat is level and the engine is completely off before starting.
2. **Locate dipstick:** Find the saildrive oil dipstick—typically at the top of the saildrive unit inside the engine room[1].
3. **Remove & clean:** Unscrew or pull out the dipstick. Wipe it clean with a lint-free cloth.
4. **Reinsert & check:** Reinsert the dipstick fully (but don't screw it in, if threaded), then remove to check the oil level.
    - If oil is **between Min & Max marks:** Level is good.
    - If oil is **below Min:** Add the correct type of saildrive oil.
    - If the oil is **milky or emulsified:** This may indicate water ingress and should be addressed immediately.
5. **Secure dipstick:** Replace and secure the dipstick back in place.

Engine Control Panel

Engine Control Unit (ECU) – Overview & Operation

📋 What is an ECU?

- 💻 **Electronic control unit** that manages engine operations.
- 🛠️ **Controls actuators** and optimizes engine functions—like fuel injection, ignition timing, and air intake—to ensure efficient performance.

🚦 Starting the Engine

1. Press and hold the power button.
2. While holding the power button, **press and hold the start button** until the engine starts.

🛑 Stopping the Engine

1. **Press and hold the stop button.**
2. While holding the stop button, **press and hold the power button** to shut the engine down.

The ECU ensures the engine operates smoothly by automating and regulating all critical control functions.

Autopilot Operation

Autopilot

If a compatible autopilot computer is connected to the system, autopilot functionality is available in the system.

The system does not allow for more than one autopilot computer on the network.

The display unit automatically detects the autopilot computer available on the network and presents settings, configuration and user options for the connected computer.

For details about installing and configuring an autopilot computer, refer to the separate manuals that come with the autopilot computer.

Safe operation with the autopilot

⚠ Warning: An autopilot is a useful navigational aid, but DOES NOT replace a human navigator.

⚠ Warning: Ensure the autopilot has been installed correctly, commissioned and calibrated before use.

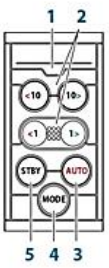
→ ***Note:*** You can disengage the autopilot at any time by pressing the **STBY** key on the Triton² Pilot controller.

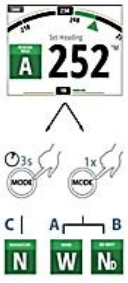
Do not use automatic steering when:

- In heavy traffic areas or in narrow waters
- In poor visibility or extreme sea conditions
- When in areas where use of an autopilot is prohibited by law

When using an autopilot:

- Do not leave the helm unattended
- Do not place any magnetic material or equipment near the heading sensor used by the autopilot system
- Verify at regular intervals the course and position of the vessel
- Always switch to Standby mode and reduce speed in due time to avoid hazardous situations





Autopilot controller

The autopilot is controlled by the Triton² Pilot controller.

1 **LED** - Mode and alarm indicator

2 **Port and starboard keys**
In Standby mode: press to activate Non Follow Up mode (NFU).
In AUTO mode:
- Press a key to change set heading 1° or 10° to port or starboard
- For boat type set to SAIL: Press and hold both port keys or both starboard keys to start a tack/gybe

In NoDrift mode:
- Press a key to change set heading 1° or 10° to port or starboard

In Wind mode:
- Press to change set wind angle 1° or 10° to port or starboard
- Press both 1° keys to start a tack/gybe

3 **AUTO key**
Press to activate AUTO mode.

4 **MODE key**
→ ***Note:*** Only used when the autopilot is in AUTO or NoDrift mode.
Press once to select mode:
- For boat type set to SAIL: activates Wind mode (**A**)
- For other boat type settings: activates NoDrift mode (**B**)

Press and hold to activate NAV mode (**C**)

5 **STBY key**
Press to activate Standby mode.

Electric Winch

Electric Winches Overview

🔧 Function & Benefits:

- 🟣 **Push-Button Operation** – For easy sail trimming.
- ⚡ **Energy-Efficient Motors** – Deliver more power with less electricity.
- ⚙️ **Mechanical Advantage** – Motors connect to the central drive shaft and use winch gears for efficient operation.

🌀 **Winch Options:**

- ⭐ **Speed Choices:** Available in 1, 2, or 3 speeds.
- 🌀 **Grip Types:** Options include self-tailing, shaped, or sandblasted grips for improved handling.
- 🟤 **Drum Variations:** Choose between standard or wide drums to fit different sail setups.

🟣 Using Electric & Manual Winches Correctly

✅ Proper Winch Operation

1. **Wrap the Rope Clockwise:**
   3 to 4 turns around the winch drum.
2. **Engage the Brake:**
   Secure the line before operation.
3. **Operate the Winch:**
   - **Manual Winch:** Use a winch handle to turn.
   - **Electric Winch:** Press the button (this boat has a one-speed electric winch).

⚡ About the Electric Winch

- This boat has 1 electric winch with one speed.

Follow these steps for safe and effective winch use, whether manual or electric.

Location of Gas bottles

Gas System Safety Procedure – Quick Guide

⚠️ Safety First

- Always shut down the **entire gas system** when not in use or before performing maintenance.
- Extinguish all flames and avoid ignition sources during shutdown.

🚪 Access the Cockpit Area

- Go outside to the cockpit area and open the **designated gas locker**.
- The locker should be upright, vented overboard, and easily accessible for emergencies.

Locate Gas Bottles

- Inside the locker, you'll find the gas bottles securely fastened.
- Ensure bottles are upright and kept in a dedicated compartment

Outboard

🚤 Starting the Outboard Engine

- ⛽ **Check Fuel:** Make sure there is plenty of gasoline/petrol in the outboard fuel tank.
- 🔓 **Open Fuel Valve:** Allow fuel to flow to the engine.
- 💨 **Open Air Valve:** Ensure proper airflow from the top.
- ⚙️ **Neutral Gear:** Set the outboard engine to neutral before starting.
- 🔑 **Ignition Key:** Place the key into the ignition slot.
- 🚀 **Throttle Position:** Set the throttle to about 2/3 for optimal start performance

Entry Water

🚰 Water Tank Refill Instructions – Yacht Quick Guide

- **Water Tank**
  - This yacht is equipped with a single water tank.
- **Refill Location**
  - To refill, go to the bow side (front of the vessel).
- **Locate Water Cap**

- At the bow, find the water cap labeled clearly with "up water."
- **Refill Process**
  - Remove the water cap and refill the tank as needed.

Entry Diesel

🛢️ Diesel Tank Refill Instructions – Yacht Quick Guide

• Diesel Tanks
This yacht is equipped with two diesel tanks.
• Refill Location
To refill, proceed to the stern side (back) of the yacht.

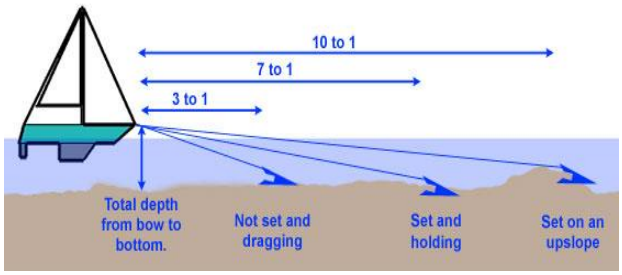
- Locate Diesel Caps
  At the stern, find the diesel caps, which are clearly marked with the label "up diesel."
- Refill Process
  Remove the diesel caps and refill both tanks as needed.

Chain marking

⚓ Chain Markings and Anchor Operation

The yacht has approximately 80 meters of chain, with markings every 10 meters as follows:

- 10 meters: ⚪ (White)
- 20 meters: 🔵 (Blue)
- 30 meters: 🟢 (Green)
- 40 meters: 🟡 (Yellow)
- 50 meters: 🔴 (Red)
- Last 10 meters: 🔴 (Full Red, secured with rope)



Important Attention Points:

1. **When dropping the anchor:**

- Be cautious not to damage the ⚓ bow side while releasing the chain.

2. **When retrieving the anchor:**

- When the 🔵 Blue mark appears, it means the anchor is approximately 15 meters below the surface.
- Proceed slowly at this point to avoid damage to the ⚓ bow and 🚤 bowsprit.

3. **Windlass motor:**

- Ensure the engine is running when using the windlass motor to operate the anchor chain.

Sails

⛵ Main Sail Operation

This yacht has a full batten main sail with 3 reefs.

🟢 Opening the Main Sail:

- 1️⃣ Release all reefs (all three) at once.
- 2️⃣ Simultaneously pick up the main halyard.

🔴 Closing the Main Sail:

- 1️⃣ Take back the reefs one by one (first, then second, then third).
- 2️⃣ Release the main halyard at the same time as you close the sail.

Genoa Sail

👍 Self-Tacking Genoa Operation – Quick Guide

This yacht features a **self-tacking genoa** for simplified sailing. Follow these steps for safe and efficient use:

🟢 Opening the Genoa

- 1️⃣ Release the genoa sheet
- 2️⃣ **Unfurl the genoa** (take out the furling line)
- 📎 Important:
- Perform both actions **simultaneously** for smooth and safe opening

🔴 Closing the Genoa

- 1️⃣ Release the furling rope
- 2️⃣ Pull in the genoa sheet

📎 Important:

Perform both actions **simultaneously** for smooth and safe furling.