








Operation Manual

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2020



Control Panel

Yacht Control Panel – System Functions

-  Windlass: Anchor control
-  Thrusters: Maneuvering assistance
-  Navigation lights
-  Alarms & video surveillance
-  Windshield wipers
-  Engines: Fuel, water, and oil levels monitoring
-  Generators and other equipment



Why the Control Panel Is Important

- **Monitors the yacht's health:**




Ensures all systems are functioning properly and helps detect issues early, keeping your vessel running smoothly.

- **Keeps you safe:**







Provides centralized access to critical safety features, security alerts, and system controls for a safer experience at sea.



The control panel is your main interface for managing everything on board—ensuring convenience, safety, and peace of mind throughout your voyage.

Panel Operation Guide

-  RED Button = ON
-  WHITE Button = OFF
-  Always turn off buttons after use.

Panel Buttons & Functions

-  **ELECTRONICS:** Turns on autopilot, plotter, and wind plotter.
-  **NAVIGATION LIGHTS:** Activates outside lights (white-red-green).
-  **STEAMING LIGHT:** For use when sailing with engine; also activates navigation lights.
-  **DECK FLOODLIGHT:** Turns on deck lighting.
-  **ANCHOR LIGHT:** Powers the anchor light.
-  **LIGHTING:** Controls cabin and saloon lights.

- **BILGE PUMP:**
 -  One press = Manual Mode
 -  Two presses = Automatic Mode
- **AUX:** Powers USB sockets.
- **FRESH WATER PUMP:** Enables fresh water supply.
- **FRIDGE UNIT:** Powers the fridge.





Batteries / Water/ Diesel Levels

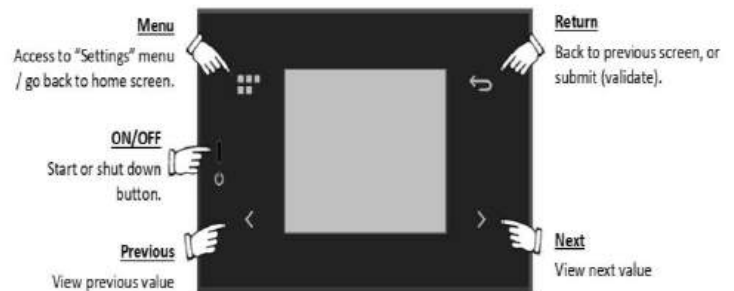
Control Panel Viewer Overview

Purpose

- Controls electrical functions in the living area of the motorhome.
- Displays key information about battery and tank levels.












Monitored Systems

-  **Engine Battery Charge Level**
-  **Leisure Battery Charge Level**
-  **Fresh Water Tank Level**
-  **Diesel Tank Level**



Digital Multi Control

Color Control GX (CCGX)

-  **Central Hub:**
Core of your energy system; manages seamless integration of components.
-  **Connects To:**
 -  Inverter/Chargers
 -  Solar Chargers
 -  Batteries
-  **Monitoring & Control:**
 -  **On-Site:** View system data directly on the CCGX screen.
 -  **Remote Access:** Monitor & control via internet and VRM Portal.
-  **Advanced Features:**
 -  Remote firmware updates
 -  Change settings remotely



- ✨ Part of GX Family:

Runs on Venus OS – Victron’s advanced monitoring platform.

Keep always the button at ON position and the current limit at 16.

Generator

👉 Switching ON the Generator

- **Turn OFF Shore Power:**
Set **SHORE POWER** switch to **OFF**.
- **Press START:**
Wait for the generator to start.
- ● **Move Black Plastic Cap:**
Slide to the **left (port side)**.
- **Turn ON Cummins Onan Power:**
Set the **CUMMINS ONAN POWER** switch to **ON**.
- ⚡ **220V is Now Available:**
AC and electrical plugs can be used.



🛑 Stopping the Generator

- **Turn OFF Cummins Onan Power:**
Set the **CUMMINS ONAN POWER** switch to **OFF**.
- **Press STOP/PRIME:**
Wait for the generator to stop.
- ● **Move Black Plastic Cap:**
Slide to the **right (starboard side)**.

🔄 Switching to Shore Power (220V)

To Use Shore Power

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

Close the Generator Without Using Shore Power

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

Operation Generator from the Local Panel (Only in emergency situations)

Switching ON the Generator

- **Turn OFF Shore Power**
Set the **SHORE POWER** switch to **OFF**.
- **Press START**
Wait a few minutes for the generator to start.
- **Move Black Plastic Cap**
Slide the cap to the **left (port side)**.
- **Turn ON Cummins Onan Power**
Set the **CUMMINS ONAN POWER** switch to **ON**.
- ⚡ **220V is Now Available**
AC power and electrical outlets can now be used.



Switching OFF the Generator

- **Turn OFF Cummins Onan Power**
Set the **CUMMINS ONAN POWER** switch to **OFF**.
- **Press STOP/PRIME**
Wait for the generator to shut down completely.
- **Move Black Plastic Cap**
Slide the cap to the **right (starboard side)**.

Generator Shutdown and Shore Power – Compact Guide (With Symbols)

- **Switching OFF the Generator**
 - **Turn OFF Cummins Onan Power:**
Set **CUMMINS ONAN POWER** to OFF.
 - **Press STOP/PRIME:**
Wait for the generator to stop.
 - **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.

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.

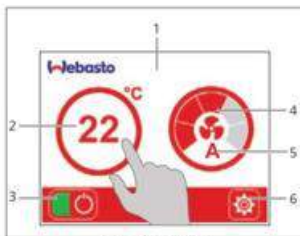


Fig. 1 Design 1

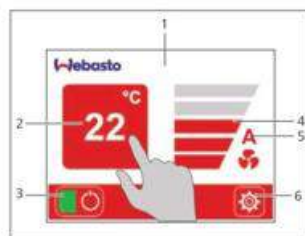


Fig. 2 Design 2

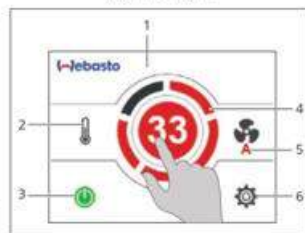


Fig. 3 Design 3

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 	Automatic setting
10 	previous
11 	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. Setpoint temperature < cabin temperature.
- The plant only heats under the following conditions: cabin temperature < 29 °C. Setpoint 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 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 | 01:00
 - ▶ 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.

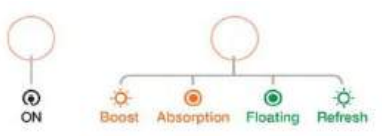
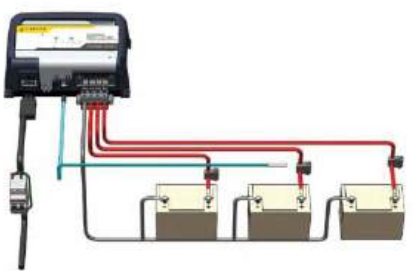
- 9.1.3 Language**
- Sets the operating language.
- 9.1.4 Design**
- Changes the screen design.
- 9.1.5 Colour**
- Adapts the background colour.
- 9.1.6 Standby**
- Sets the BlueCool MyTouch display to standby mode. The available functions are:
- **Webasto Logo**
Shows the Webasto logo.
 - **Customer 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.

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:

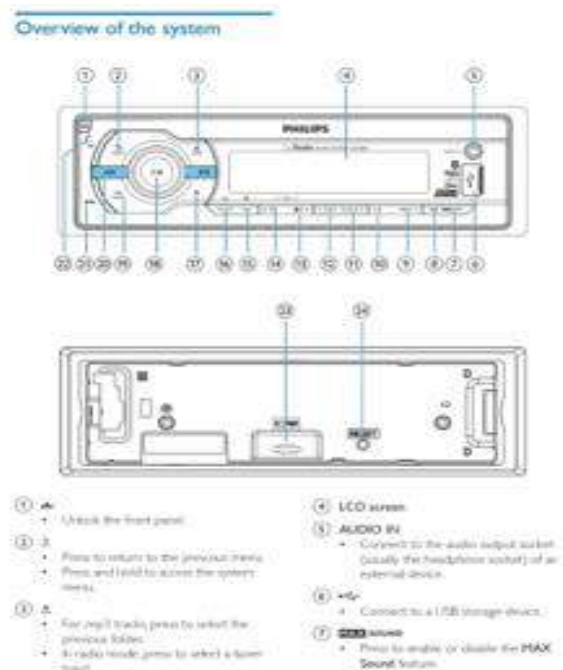
- ✓ A **radio signal** is an electronic current that moves back and forth rapidly.
- ✓ A **transmitter** sends out this signal via an **antenna**.

◆ Reception:

- ✓ A **receiver** picks up the transmitted waves.
- ✓ The signal is then converted into **sound**, which is heard through the radio speaker.

⚠ **Tip:** Ensure the radio is properly tuned to the correct frequency for clear communication.

- 🔊 **DBB:** Dynamic Bass Boost on/off.
- ▶ **6:** Play/pause; radio preset/store No.6; MP3: folder 6.
- ▶ **5:** Radio preset/store No.5; MP3: folder 5.
- ▶ **4:** Radio preset/store No.4; MP3: folder 4.
- ▶ **3:** Radio preset/store No.3; repeat (MP3); RPT FLD/ALL.
- ▶ **2:** Radio preset/store No.2; random (MP3); RDM FLD/ALL.
- ▶ **1:** Radio preset/store No.1; intro (MP3); INT FLD/ALL.
- ⌚ **DISP:** Switch display: album/artist/track (MP3), station/frequency/RDS/clock (radio).
- 🔄 **AS/SOURCE:** Change source; auto-store (radio).
- 📻 **BAND:** Select tuner band (radio); folder (MP3).
- ⏻ **PWR:** Power on/off/mute.
- 📊 **SEL:** Adjust bass, treble, balance, fader.



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.

📻 VHF Radio Controls & Interface (Bulleted & Symbol-Based)

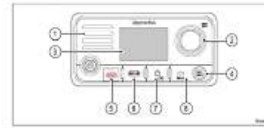
📺 Base Station Buttons

- 🔊 **1. Built-in Speaker**
 - Delivers audio output directly from the device.
- 🔄 **2. Rotary Knob / OK Push Button**
 - Turn for menu navigation (clockwise/anticlockwise).
 - Press for menu/DSC entry or to confirm selections.
- 📺 **3. LCD**
 - Displays channel, settings, and menu items.
- 📊 **4. VOL/SQ**
 - Turn: adjust volume or squelch.
 - Press: switch control between volume and squelch.
- 🚨 **5. DISTRESS**
 - Lift cover and press to send a DSC distress call.
- 1 6 / + **6. 16 / PLUS**
 - Press to switch between priority channels.
- 🔌 **7. Power**
 - Press: turn unit on; press & hold (3sec): turn off.

Controls and interface

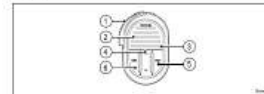
The controls and interface available are as follows:

Base station



- Built-in speaker**
- Rotary knob / OK push button** — Press knob in to access menu / DSC functions and to confirm selections. Turn rotary clockwise or anti-clockwise to move up and down through menu items or to change channel from the Homescreen.
- LCD**
- VOL/SQ** — Turn knob to adjust volume or squelch up and down. Press center button to switch between volume and squelch control.
- DISTRESS** — Push up the spring loaded cover and press this button to make a DSC distress call.
- 16 / PLUS** — When powered on press to switch between priority channels.
- Power** — Press to power the unit on. Press and hold for 3 seconds to power the unit off. Momentary press to access the shortcut list.
- Back** — Move back through menu options.









Fistmic



- PTT (Push to Talk)** — Press and hold to send a voice message. Release to return to receive mode.

Note: The maximum transmit time is limited to 5 minutes to prevent un-intentional transmissions from occupying the VHF channel.


- Speaker**
- Microphone location**
- Channel Up and Down** — Changes the channel up or down.
- HI/LO** — Press to switch between High (25 W) and low (1 W) transmit power.
- 16 / PLUS** — When powered on press to switch between priority channels.


- Short press: access shortcut list.
-  **8. Back**
 - Move back through menu options.
-  **Fistmic (Hand Microphone) Buttons**
-  **1. PTT (Push to Talk)**
 - Press and hold to transmit; release to receive.
-  **2. Speaker**
 - Audio output.
-  **3. Microphone Location**
 - Area where voice is picked up for transmission.
-  **4. Channel Up/Down**
 - Press to change channel.
-  **5. HI/LO**
 - Press to toggle power—High (25W) or Low (1W).
-  **6. 16 / PLUS**
 - Press to quickly switch to priority channels.

GMDSS

Dual Energy Power Supplies and Battery Chargers

These units are specifically designed and developed for:

 Charging and maintaining voltage on lead-acid batteries.

 Providing a consistent and uninterrupted power supply (main or backup).

 **Location:**

You will find it in the **chart table area**.



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

Service & Engine Battery Switches

■ Switches Covered:

- Service battery & engine battery switches

📍 Location:

- Inside the cupboard next to the fridge



Generator Switch

Generator Switch Location

- ⚡ **Generator Switch:**
Located in the **Bow Starboard Deck Locker**.



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 on board can be found in the following locations:

- **Under the Control Panel**
Check beneath the main control panel area for fuse panels or boxes.
- **Under the Chart Table**
Look under the navigation chart table—many vessels' position fuses here for easy access to navigation and instrument circuits.



Anchor Thermal Fuse

Windlass Fuse Reset Procedure (with Symbols)

- 🔍 **Locate:** Find the windlass fuse/breaker near the control panel or windlass circuit.
- 👁️ **Check:** Look for a raised (vertical) yellow/red lever or button—this means it's tripped.
- 🔄 **Reset:** Firmly push the lever/button back to its original (horizontal/in) position until it clicks.
- 🛠️ **Test:** Operate the windlass (up/down); verify normal function.



Electric Winch

Electric Winch Fuse Reset – Compact Guide

- 🔍 **Location:** Under the control panel

Steps to Reset the Electric Winch Fuse

1. **Check the Fuse**
 - If tripped: The yellow plastic will be in position "0" (almost vertical).
2. **Reset the Fuse**
 - Use your fingers to press the yellow plastic **down** until it reaches a horizontal position "1" and clicks into place.
3. **Test the Operation**
 - Perform a **function test** to ensure the electric winch is working properly.





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 / Engine

Service & Engine Battery Location – Quick Guide

-  **Location:**
In front of the fridge.
-  **Access:**
Open the **locker on the floor** to reach both the service and engine batteries.
-  **Tip:**
Regularly check battery connections and charge levels to ensure proper functionality and reliable power on board.



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

- 📍 **Location:**
The fresh water pump is located under the couch in the living room.
- ❌ **No Water Valves Present:**
There are no water valves associated with this freshwater pump in this location.



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 system.
- **Controls waste flow:**
 - **Closed (Vertical):** Waste goes to the tank.
 - **Open (Parallel):** Tank empties to the sea (only where legal)





📍 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.

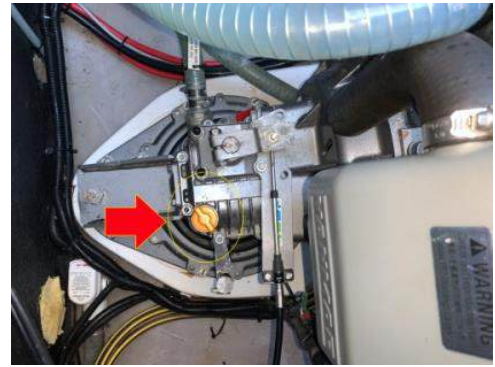


Saildrive oil check

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.
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

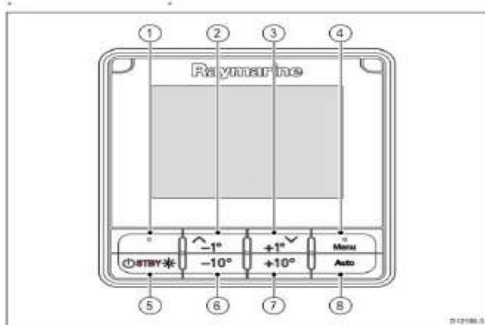
1. Press and hold the power button.
2. While holding the power button, **press and hold the start button** until the engine starts.

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



Item	Description
1.	LEFT SOFT BUTTON Cancel, Back, mode selection.
2.	UP BUTTON / -1 Up navigation, Adjust Up, Decrease angle.
3.	DOWN BUTTON / +1 Down navigation, Adjust Down, Increase angle.
4.	RIGHT SOFT BUTTON Menu, Select, OK, Save.
5.	STANDBY BUTTON Disengage pilot, Manual control, Power, Brightness.
6.	-10 BUTTON Decrease angle.
7.	+10 BUTTON Increase angle.
8.	AUTO BUTTON Engage Auto pilot.

Item	Description
1.	LEFT SOFT BUTTON Cancel, Back, mode selection.
2.	STANDBY BUTTON Disengage pilot, Manual control, Power, Brightness.
3.	ROTARY CLOCKWISE Down navigation in list, Adjust Up, Increase angle (locked heading), adjust numerical values, power steer.
4.	ROTARY ANTI-CLOCKWISE Up navigation in list, Adjust Down, Decrease angle (locked heading), adjust numerical values, power steer.
5.	RIGHT SOFT BUTTON Menu, Select, OK, Save.
6.	AUTO BUTTON Engage Auto pilot.
7.	ROTARY END PUSH BUTTON Menu, Select, OK, Save.

The pilot controller supports the following combination button presses:




Combination button press

Buttons	Action
STANDBY and AUTO.	Puts pilot in to Wind Vane mode.
-1 and -10 or +1 and +10.	AutoTack (in wind vane mode), AutoTurn

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 Shut-Off – Compact Safety Guide







- 🔧 **Location:**
 - Outside, bow starboard side
 - Open the locker to access gas bottles
- 🔑 **Valve Operation:**
 - ➡️ **Clockwise:** Opens the gas system
 - ⬅️ **Counterclockwise:** Closes the gas system



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

Location

- This yacht is equipped with **one water tank**.
- **Refill Point:** Port side, under the stairs.
- **Identification:** The filler cap is labeled "**Water**".

Steps for Refilling

- Use **clean, potable water** only.
- Attach the hose securely to the water supply and insert it into the "Water" labeled cap.
- Open the cap, fill the tank slowly to avoid airlocks, and monitor for overflow.
- Once full, close the cap tightly to prevent contamination.



Entry Diesel

Diesel Tank Refill Instructions

Location

- This yacht has **one diesel tank**.

Refill Point

- **Bow side** of the vessel.

Identification

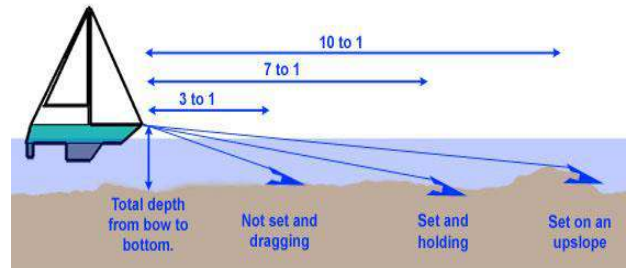
- The **diesel cap** is clearly labeled "**Diesel**".

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:

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

Closing the Main Sail:

- **1** Take back the reefs one by one (first, then second, then third).
- **2** 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

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

Closing the Genoa

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

 Important:

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