YAMAHA

CL5 Display

OWNER'S MANUAL

⚠ Read this manual carefully before operating this product.

LIT-18626-12-81
6YM-28199-10 ●

Read this manual carefully before operating the meter. Keep this manual onboard in a waterproof bag when boating. This manual should stay with the product if it is sold.

To the owner

Thank you for selecting this product. This Owner's Manual contains information needed for proper operation. A thorough understanding of these simple instructions will help you obtain maximum enjoyment from your new Yamaha. If you have any questions about the operation of the meter, please consult a Yamaha dealer.
In this Operation Manual, particularly important information is distinguished in the following ways.

⚠ This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ WARNING

A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

A NOTICE indicates special precautions that must be taken to avoid damage to the outboard motor or other property.

TIP:
A TIP provides key information to make procedures easier or clearer.

Information about the Owner's Manual
Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between the product and this manual.

CL5 Display
OWNER'S MANUAL
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Display Item List

Level 1	Level 2	Level 3
Trip	Reset All	
Steer Friction		
Lock to Lock		
Trim Assist		
Speed Control		
Information	Trip	Reset All
	Maintenance Reminder	Set Interval
		Reset
		Reset All
	Tanks	
	Trim	
	Software Information	
	System Information	Components
		Software
		Serial Number
	Active Alarm	Port
		Center Port
		Center Starboard
		Starboard
	Trouble Code	Port
		Center Port
		Center Starboard
		Starboard
	Warning Manager	Sort by Date/time
		Sort by Active/Inactive
		Sort by Criticality
		Clear Warning Manager
Boat Set	Autopilot setting*1	Pattern Set
		Direction
		Spacing
		Initial Radius
		Amplitude
		Length
		Final Track Point Mode
		Course Hold Offset
	Joystick and Set Point	Joystick Thrust
		Trim Preset
		Trim Angle
		Fine Tuning Distance
		Fish Point Setting
	PTT Switch	Pattern 1
		Pattern 2
	Trim Assist Preset	Underway(RPM)
		Static(RPM)
		Reset RPM Settings
		Underway(GPS)
		Static(GPS)
		Reset GPS Settings
		Speed Source
	Tank Preset*2	

Level 1	Level 2	Level 3
Boat Set	Calibration	Trim Zero Set
		Fuel Flow Offset
		Compass Setup
		Joystick Calibration
		Autopilot Sensitivity
	Alarms	Shallow Water
		Deep Water
		Keel Offset
Device Set	Screenshot Capture	
	Background	Brushed Metal
		Carbon
		White
	Units	System Units
		Time
	Keyboard Layout	
	Edit Gauge Layout	Edit Engine Screen
		Edit Boat Screen
	Brightness	Backlight
		Backlight Sync
		Color Mode
	Beeper	Off
		Alarms Only
		Key and Alarm
Reset	Number of Engines	1
		2
		3
		4
	Reset System	
	Reset Steering System	Yamaha Steering
		Other
	Change Station	Main Helm (Main Station)
		Fly Bridge (2nd Station)
		Other
	Reset Default Settings	No
		Yes

*1 The button displayed will vary depending on the Pattern Set selection.

*2 To display the Tank Preset button, a Fuel Sender is required.

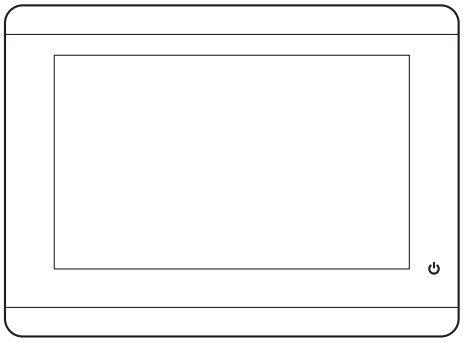
TIP:

Some menus may not be displayed, depending on your connection system.

Device Overview

WARNING

See the Important Safety and Product Information guide in the product box for product warnings and other important information.



Turning the Power ON

Turning the main switch to the ON position to start the engine will supply power to this device.

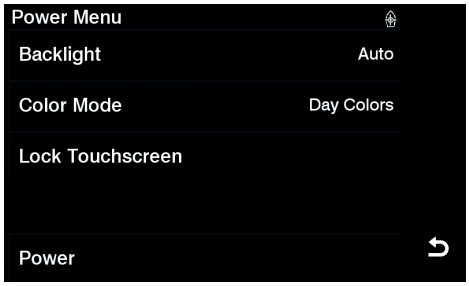
TIP:

Pressing the power button "⏻" of this device will supply power even if the main switch is in the OFF position.

Using the Touchscreen

- Tap the screen to select the displayed item.
- Swipe the screen up and down to scroll the display.
- Swipe the screen left and right to switch the display.

Disabling the Touchscreen

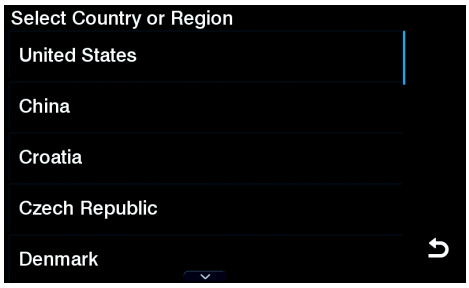


You can disable the touchscreen to prevent inadvertent screen touches.

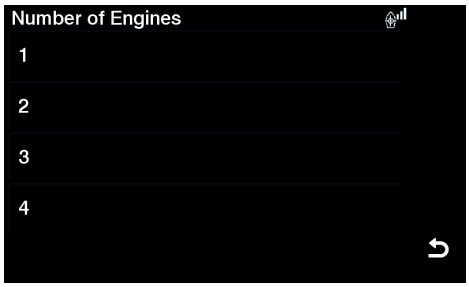
To lock the touchscreen:
(1) Press "⏻".
(2) Select "Lock Touchscreen".
To unlock the touchscreen, press "⏻".

Original Factory Settings

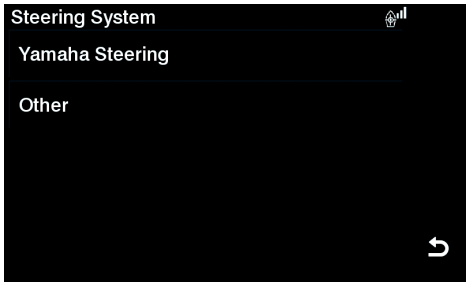
When starting up for the first time, you must set your region and the number of outboard motors.
Select the items displayed on the screen and create your settings.
To set:
(1) Select country or region.



(2) Set the number of outboard motors installed on your boat.



TIP:
You can reset the number of outboard motors installed.
(See page 18 for details.)
(3) Select the steering system for the outboard motor to be used.

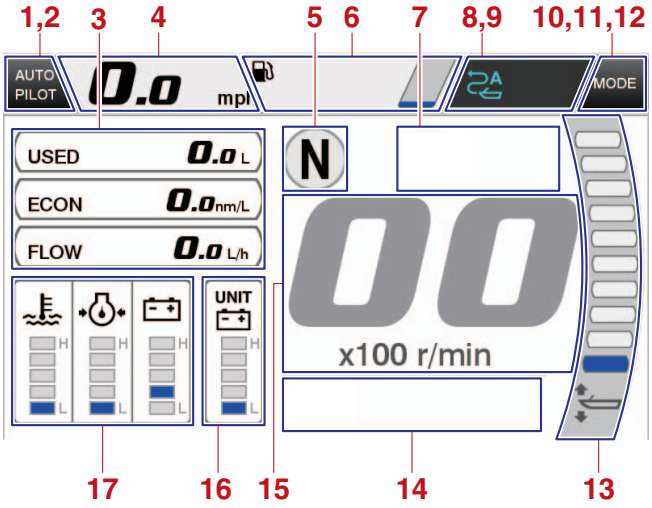


TIP:
Select “Yamaha Steering” if you have outboard motors equipped with Yamaha electric steering, and select “Other” if you have outboard motors equipped without Yamaha electric steering.

Engine Data Screen

Engine Data Screen

One-outboard motor specification



1	Autopilot button	Select the button to display information on the autopilot feature. See page 11 for how to use the autopilot feature. **TIP:** The autopilot button is displayed when using Helm Master EX equipped with an autopilot panel.
2	SetPoint button	SetPoint is the feature for maintaining a fixed point. **TIP:** The SetPoint button is displayed only when using Helm Master.
3	Boat status	Displays the status of the boat such as water speed, rudder angle, fuel consumption, and trip distance. **TIP:** Press and hold the Boat Status to change the display information. See page 16 for how to change the display information.
4	Speedometer	Displays the boat's water speed.
5	Shift	Displays the outboard motor shift status.
6	Tank level	Displays the remaining amount in the fuel tank, freshwater tank, etc. **TIP:** ● To display the fuel level, a fuel sender must be connected. ● Press and hold the Tank Level for more information on the tank level.
7	Engine condition	Displays the status of the engine. : Yamaha security system is on. : Engines are under synchronization control. : Engines are cold.
8	Boat control indicator	Displays the active boat control feature. : Autopilot : Speed control : Single lever : Trim assist **TIP:** ● Displays only when using Helm Master EX. ● See page 7 for how to use the speed control feature. ● See page 13 for how to set the trim assist feature.
9	GPS indicator	Displays GPS signal strength.
10	Boat control mode button	Helm Master EX equipped with a joystick can switch the FishPoint mode.
11	Set RPM button	Helm Master displays the setting screen for the upper limit of revolutions of FishPoint.
12	Trolling mode button	The trolling speed can be adjusted randomly by increasing or decreasing it. **TIP:** The trolling mode button is displayed when using either the mechanical remote controller, the 6X6 remote controller or the 6X7 remote controller.
13	Trim angle	Displays the trim angle of the outboard motor. **TIP:** Press and hold the Trim Angle for more information on the trim angle.

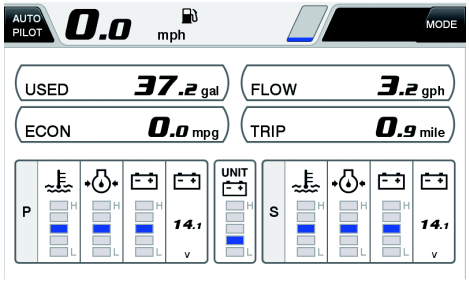
14	Engine alert	When a malfunction in the engine occurs, the following engine alert icon will appear. : Low oil pressure alert : Overheat alert : Water in fuel alert : Low voltage alert : Check engine alert : Check system / Steering malfunction alert ***NOTICE*** **When the engine alert icon appears, take appropriate measures for each alert. See page 9 for measures.**
15	Tachometer	Displays the engine speed. **TIP:** Press and hold the Tachometer to change the screen background design. See page 16 for changing the background design.
16	Sub status	Displays the status of connected devices such as the status of the trim tab, unit voltage, and accessory battery voltage. **TIP:** Press and hold the Sub Status to change the display information. See page 16 for changing the display information.
17	Engine status	Displays the status of the engine, such as oil pressure, cooling water pressure, and battery voltage. **TIP:** Press and hold the Engine Status to change the display information. See page 16 for changing the display information.

Display button table

	Mechanical Remote controller	6X6/6X7 Remote controller	Helm Master	Helm Master EX with DEC, DES	Helm Master EX with Autopilot panel	Helm Master EX with Joystick
Autopilot button	×	×	×	×	○	○
SetPoint button	×	×	○	×	×	×
Boat status	○	○	○	○	○	○
Speedometer	○	○	○	○	○	○
Shift	×	○	○	○	○	○
Tank level	○	○	○	○	○	○
Engine condition	○	○	○	○	○	○
Boat control indicator	×	×	×	○	○	○
GPS indicator	×	×	○	×	×	×
Boat control mode button	×	×	×	×	×	○
Set RPM button	×	×	○	×	×	×
Trolling mode button	○	○	×	×	×	×
Trim angle	○	○	○	○	○	○
Engine alert	○	○	○	○	○	○
Tachometer	○	○	○	○	○	○
Sub status	○	○	○	○	○	○
Engine status	○	○	○	○	○	○

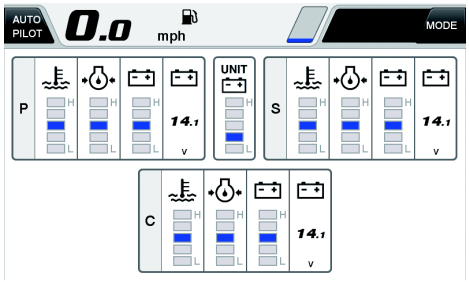
Engine Data Screen

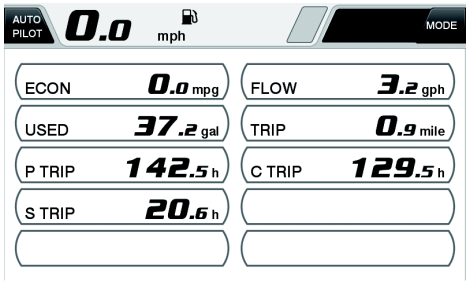
Two-outboard motor specification



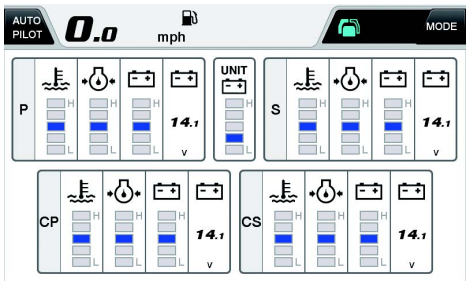
In the case of a two-outboard motor specification, the boat status, engine status, and sub status are displayed on the screen to the right of the engine data screen.

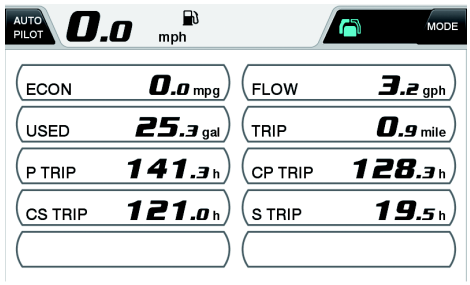
Three-outboard motor specification





Four-outboard motor specification





In the case of three- and four-outboard motor specifications, the engine status and sub status are displayed on the screen to the right of the engine data screen. The boat status is displayed on the second screen to the right from the engine data screen.

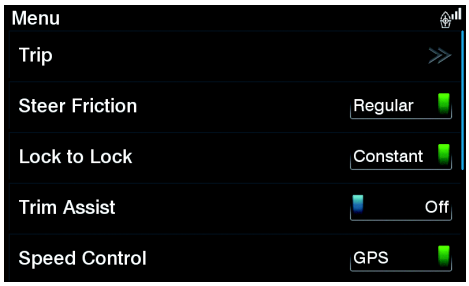
TIP:

The display of the engine data screen varies depending on the number of outboard motors installed, remote controller, and other connected devices.

Menu

NOTICE

Be sure the station settings are set correctly. If not, the engine data screen will not display the correct information.



To display the menu screen, swipe from left to right on the engine data screen, or swipe from right to left with the Boat Status displayed.

GPS Satellite Signals

When satellite data has been received, is displayed at the top right of the screen.

TIP:

Contact your Yamaha dealer for information on how to connect a GPS receiver.

Trip

Menu > Trip

Displays the trip data, such as trip distance and hours, and allows you to reset these values. (See page 8)

Steer Friction

Menu > Steer Friction

You can select either “Regular” or “Heavy” steering friction.

TIP:

- The steering friction feature can be set only when the electric steering is equipped.
- For detailed settings of the steering friction feature, contact your Yamaha dealer.

Lock to Lock

Menu > Lock to Lock

You can select either “Variable” or “Constant” as the number of revolutions when turning the steering fully to the right from the state where the steering is fully turned to the left.

TIP:

- The lock-to-lock feature can be set only when the electric steering is equipped.
- For detailed settings of the lock-to-lock feature, contact your Yamaha dealer.

Trim Assist

Menu > Trim Assist

You can set ON/OFF for the trim assist feature.

See page 13 for details on how to set the trim assist feature.

TIP:

- This feature is displayed only when using Helm Master EX.
- Use the remote controller to change the Trim Assist when using Helm Master.

Speed Control

Menu > Speed Control

You can change the source of the speed control feature.

Speed Control RPM and Speed Control GPS are available as the speed control feature. Select the button, then select the source.

Speed Control RPM:

Adjusts the engine speed to control the boat speed.

Speed Control GPS:

Controls the boat speed by the speed determined by GPS information

TIP:

Displays only when the GPS is connected and Helm Master EX is used. Contact your Yamaha dealer for more information.

Information

Menu > Information

Displays comprehensive information such as trip data and maintenance information. (See page 8)

Boat Set

Menu > Boat Set

You can create detailed settings for various features.

(See page 12)

Device Set

Menu > Device Set

You can set the display unit and layout for the device.

(See page 16)

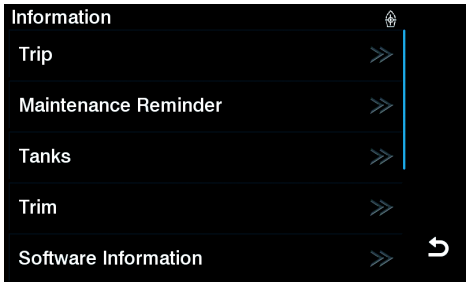
Reset

Menu > Reset

You can change or reset the registered settings.

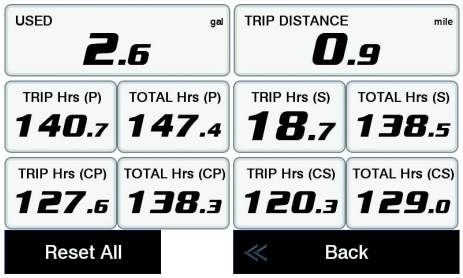
(See page 18)

Information



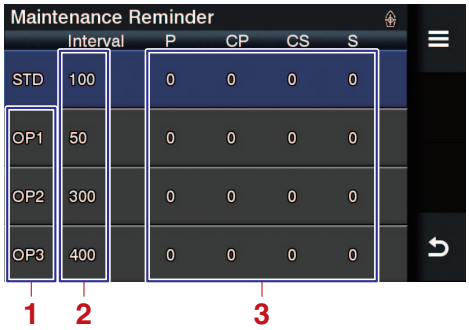
Menu > Information

Viewing and Resetting the Trip Data



Menu > Information > Trip
Displays the total trip time, trip distance, trip time, and fuel consumption.
Press and hold to reset each item data.
Select “Reset All” to reset the trip distance, trip time, and fuel consumption data all at once.

Setting the Maintenance Reminder



1 Types of maintenance
2 Interval time
3 Elapsed time

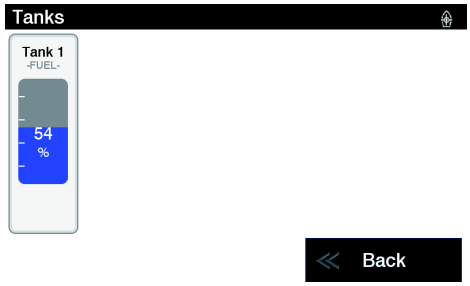
Menu > Information > Maintenance Reminder
The maintenance reminder is a feature that notifies you when maintenance is required in a pop-up window.
To use the maintenance reminder, you must specify an interval time that matches the type of maintenance. The maintenance reminder cannot be disabled.

To set the interval:
(1) Select one from the type of maintenance.
(2) Select “Set Interval”.
(3) Specify the maintenance interval time.

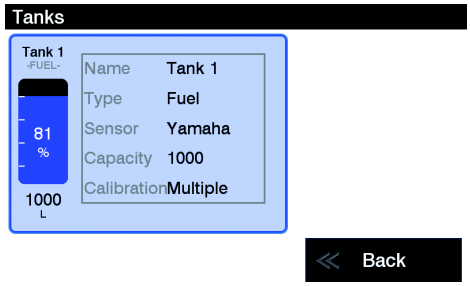
To reset elapsed time (STD):
(1) Select “STD”.
(2) Select “Engine”.
(3) Select “Yes”.

To reset elapsed time (OP1~OP3):
(1) Select the item you would like to reset (OP1~OP3).
(2) Select “Reset”.
(3) Select “Engine”.
(4) Select “Yes”.
If there is only one engine, “Select Engine” is not displayed.
If you select “Reset All”, you can reset the interval time of all engines for the item you would like to reset.

Viewing the Tank Information

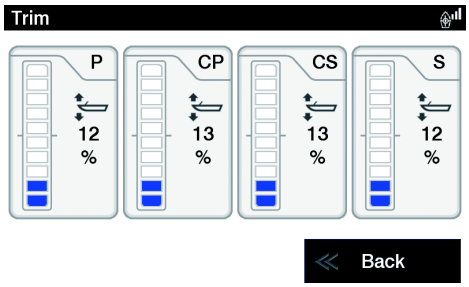


Menu > Information > Tank
Displays the information of the set tank.
Select the displayed data to display detailed information on the tank.



TIP:
To display the tank information, you must perform tank settings. See page 14 for tank settings.

Viewing the Trim Information

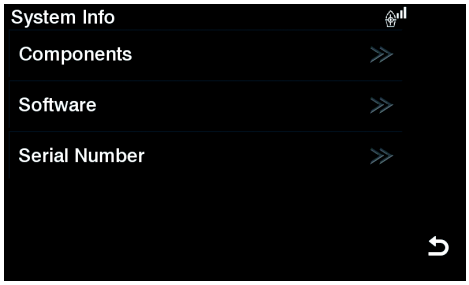


Menu > Information > Trim
Displays the trim angle of the outboard motor.
When the outboard motor reaches the tilt area, the display information will flash orange.

Viewing Software Information

Menu > Information > Software Info
Displays the software version information.
The software must be updated regularly.
Contact your Yamaha dealer for more information.

Viewing System Information

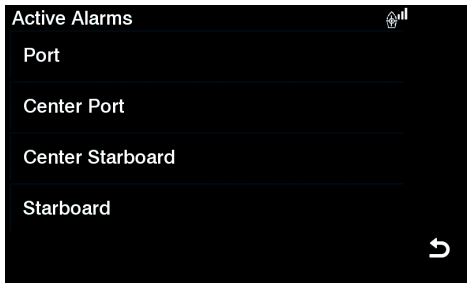


Menu > Information > System Info
Displays the connected device, the software being used, and the serial number.

TIP:

- This is displayed only when a compatible Yamaha device is connected.
- This will not be displayed when using a mechanical remote controller.

Active Alarms



Menu > Information > Active alarm
Displays any active alarm information.
Alarm information is also displayed in the engine alert section of the engine data screen as an icon.
The "⚠" next to the item will come on when there is alarm information during activation.

NOTICE

If a warning is displayed, return to port immediately and contact your Yamaha dealer without delay.

Low Oil Pressure Alert "🛢"
The low oil pressure alert comes on when the engine oil pressure drops below the specified value. At the same time, the engine speed is limited and the buzzer sounds.
Stop the engine and check the engine oil level. See the outboard motor's Owner's Manual for how to check the engine oil level.

NOTICE

- **Do not run the engine without oil. Otherwise, the engine could be seriously damaged.**
- **Contact your Yamaha dealer immediately if you cannot identify the cause and take measures.**

Overheat Alert "🌡"
When the engine overheats, the cooling water temperature icon flashes and the overheat alert comes on. At the same time, the engine speed is limited and the buzzer sounds.
Stop the engine and check that the cooling water inlet is not clogged.

NOTICE

- **Avoid using the engine while the overheat alert is on. Otherwise, the engine could be seriously damaged.**
- **Contact your Yamaha dealer immediately if you cannot identify the cause and take measures.**

Water in Fuel Alert "🚰"
If water accumulates in the fuel separator (fuel filter) while navigating, the water in fuel alert flashes. Stop the engine and drain the water from the fuel separator (fuel filter). See the outboard motor's Owner's manual for how to drain the water.

NOTICE

- **If fuel mixed with water is sent to the engine, it may cause engine failure.**
- **Contact your Yamaha dealer immediately if you cannot identify the cause and take measures.**

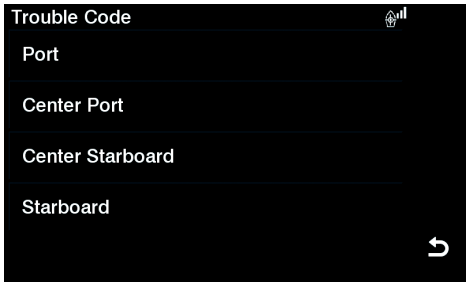
Low Voltage Alert "[-+]"
When the battery voltage drops, the low battery voltage alert flashes. When the alert activates, start the engine immediately to charge the battery. If the alert remains activated even when the engine is running, return to port immediately and have your Yamaha dealer check the battery charging system.

Check Engine Alert "[engine]"
When a malfunction in the engine occurs, the engine check alert flashes. Return to port immediately and get it checked by a Yamaha dealer.

TIP:
The engine check alert will come on until the malfunction is resolved.

Check System / Steering Malfunction Alert "⚠"
When a malfunction occurs in the system, the system alert is activated. Return to port immediately and contact your Yamaha dealer.

Viewing Trouble Codes



Menu > Information > Trouble Code
Displays the active alarm information trouble code.
The "⚠" next to the item will come on when there is a trouble code during activation.
Please report the trouble codes to your Yamaha dealer to solve various problems.

Warning Manager

Menu > Information > Warning Manager
Displays a list of warning item that has occurred so far.
Select each warning information to display detailed information.
The "⚠" next to the item will come on when there is warning information during activation.

Sort the Displayed Warning Information

Menu > Information > Warning Manager > Menu Button
You can sort the list of warnings.

To sort:
(1) Select "Sort/Filter".
(2) Select the sorting method from the following:
- Sort by Date/Time
- Sort by Active/Inactive
- Sort by Criticality

TIP:
To display the date and time correctly, you must connect a GPS to the device.

Save the Warning History to Your USB Memory Stick
Menu > Information > Warning Manager > Menu Button > Save to Card
You can save the warning history to your USB memory stick.

TIP:
When not using the USB memory stick, attach the cap to the device.

Clearing All Messages
Menu > Information > Warning Manager > Menu Button > Clear Warning Manager
You can clear the history of all warnings.
To clear the history, select "Clear Warning Manager", and then select "OK" in the pop-up window that appears.

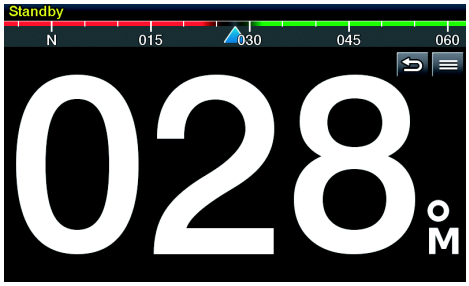
Boat Settings

Autopilot

WARNING

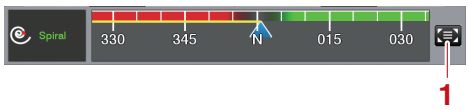
- **You are responsible for the safe and sensible operation of your vessel. The autopilot is a tool that enhances your capability to operate your boat. It does not relieve you of the responsibility of safely operating your boat. Avoid navigational hazards and never leave the helm unattended.**
- **Always be prepared to promptly regain manual control of your boat.**
- **Learn to operate the autopilot on calm and hazard-free open water.**
  Use caution when operating the autopilot near hazards in the water, such as docks, pilings, and other boats.

TIP:
The autopilot feature can be used only when using Helm Master EX with Autopilot panel.



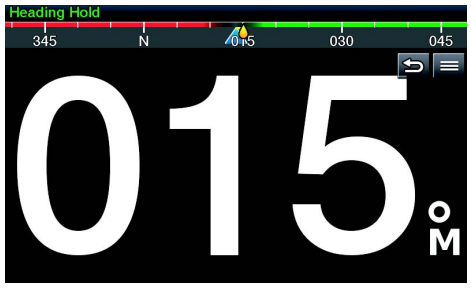
Engine Data Screen > Autopilot Screen
The autopilot system continuously adjusts the steering of your boat to maintain a constant heading and make a turn according to the pattern.

To display the Autopilot screen:
(1) Select Autopilot button on the engine data screen.
(2) Select the full-screen view button on the displayed autopilot bar.



1 Full-screen view button

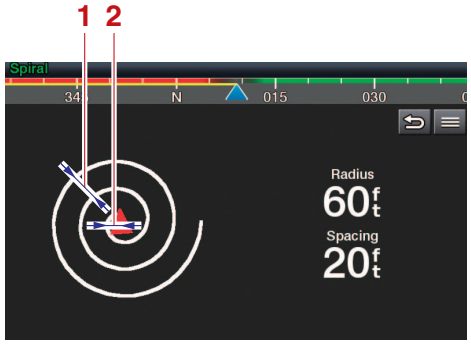
Heading Hold



Heading Hold mode is a feature to navigate with the bow direction fixed.

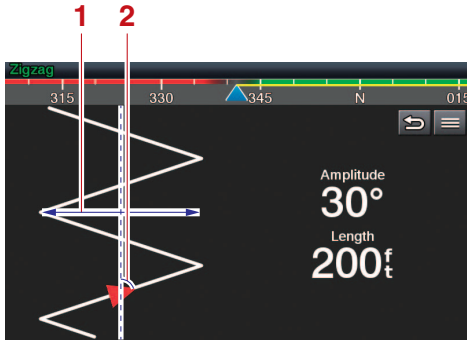
Pattern Steer

Spiral Mode



1 Spacing
2 Radius of first circle

Zigzag Mode



1 Length
2 Amplitude

Pattern Steer mode is a feature to navigate according to a predetermined pattern.

Course Hold

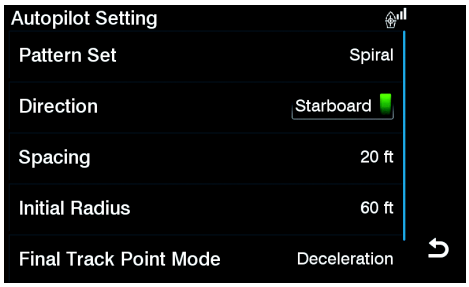
This mode keeps the boat moving on the vector at the time the mode is set.

Track Point

Track Point mode is a feature for navigating to the final destination along the set waypoints.

Boat Settings

Autopilot Setting



Menu > Boat Set > Autopilot Setting
Changes settings related to autopilot.

TIP:
Pressing the menu button on the Autopilot screen also displays the Autopilot setting screen.

Pattern Set
The steering patterns used in the pattern steering mode can be changed.
You can select either Zigzag or Spiral steering pattern.

Direction
The turning direction when using pattern steering can be selected from either port rotation or starboard rotation.

TIP:
Direction is displayed only when you select Spiral in the Pattern Set.

Spacing
You can specify the width of the spiral route. When wide, the boat draws a gentle spiral.

TIP:
Spacing is displayed when you select Spiral in the Pattern Set.

Initial Radius
You can specify the length of the radius of the first circle drawn on the spiral route.

TIP:
Initial Radius is displayed when you select Spiral in the Pattern Set.

Amplitude
You can specify he zigzag angle.

TIP:
Amplitude is displayed when you select Zigzag in the Pattern Set.

Length
The length from the left edge to the right edge of the zigzag can be specified.

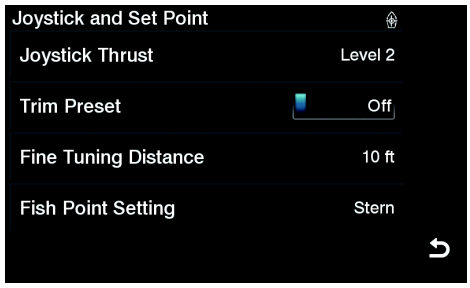
TIP:
Length is displayed when you select Zigzag in the Pattern Set.

Final Track Point Mode
Menu > Boat Set > Autopilot Setting > Final Track Point Mode
Enabling Final Track Point mode allows you to slow down your boat before it reaches the designated point.

TIP:
- When setting a route from another MFD, your boat may decelerate and stop after arriving at the designated point, depending on the MFD.
- When the lever is moved to the neutral position after the boat is stopped, the mode is switched to the preset SetPoint mode.
- The preset mode cannot be changed during deceleration.

Course Hold Offset
Menu > Boat Set > Autopilot Setting > Offset Distance
Set the offset amount from the route when operating the joystick.

Setting the Joystick/SetPoint



Menu > Boat Set > Joystick and SetPoint
Settings related to maneuvering with the joystick can be made.

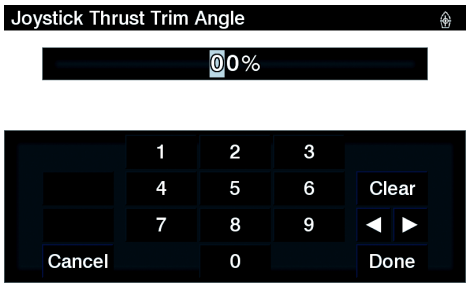
TIP:
Displays the joystick/SetPoint settings only when using Helm Master EX with Joystick.

Setting the Joystick Thrust
Menu > Boat Set > Joystick and SetPoint > Joystick Thrust
You can set the thrust when maneuvering with the joystick.

Trim Presets
Menu > Boat Set > Joystick and SetPoint > Trim Preset
You can set or select the trim angle when maneuvering with the joystick.
When turned ON, the trim angle specified when using the joystick is applied.

TIP:
When turned ON, the trim angle item is displayed, and the trim angle can be specified.

Setting the Trim Angle

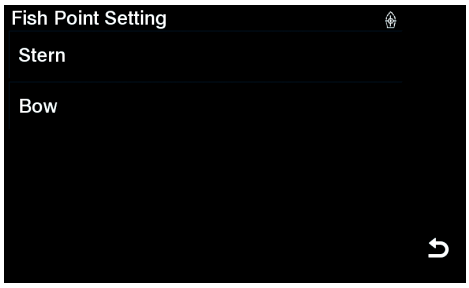


Menu > Boat Set > Joystick and SetPoint > Trim Angle
You can set the trim angle of the outboard motor when maneuvering with the joystick.

To set:
(1) Turn “Trim Preset” ON.
(2) Enter the desired trim angle.
(3) Select “Done”.

Fine Tuning Distance
Menu > Boat Set > Joystick and SetPoint > Fine Tuning Distance
You can set the distance when moving the designated position using the joystick.

Switching the FishPoints



Menu > Boat Set > Joystick and SetPoint > FishPoint Setting
You can select the type of FishPoint feature.

FishPoint Bow:
The FishPoint feature is activated based on the bow.
FishPoint Stern:
The FishPoint feature is activated based on the stern.

TIP:
The FishPoint feature can be switched using the boat control mode button on the engine data screen.

PTT Switch

Menu > Boat Set > PTT Switch
You can set the corresponding engine assignment when you press the PTT switch on the remote controller.

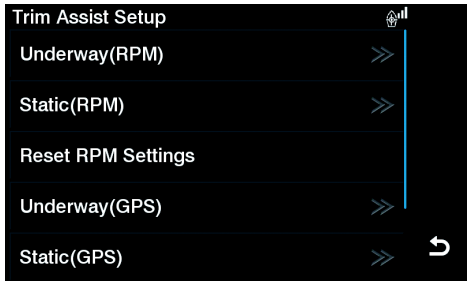
TIP:
- This display appears when more than four outboard motors are installed and the Helm Master EX is equipped.
- See the Helm Master EX Owner’s Manual for more information.

Trim Assist Preset

Menu > Boat Set > Trim Assist Preset
The trim assist feature is a feature to adjust the trim of the outboard motor to a specified angle according to the speed of the boat.
To activate the trim assist feature, turn on the Trim Assist button in the menu.

TIP:
- To use the trim assist, you must set the trim angle according to the boat speed in advance.
- To use the trim assist, you must specify the source of the boat speed. See page 14 for source specification.
- To use a GPS source, you must equip a GPS receiver that supports Helm Master EX.
- If you are not sure about the settings of the trim assist feature, contact your Yamaha dealer.

Setting the Trim Assist While Stopped



Menu > Boat Set > Trim Assist Preset > Static (RPM)
Menu > Boat Set > Trim Assist Preset > Static (GPS)
While your boat is stationary, you can set an appropriate trim angle corresponding to the speed.

TIP:
“Static (RPM)” and “Static (GPS)” can be set only when the engine is stopped.

To set:
(1) Select “Static (RPM/GPS)” to open the setting screen.
(2) Select position 2 for RPM and position 1 for GPS, and press the menu button.
(3) Enter the engine speed for RPM and the boat speed for GPS, and select “Done”.
(4) Enter the trim angle and select “Done”.
(5) Repeat steps 2 to 4 to set the remaining positions.

Setting the Trim Assist While Underway
Menu > Boat Set > Trim Assist Preset > Underway (RPM)
Menu > Boat Set > Trim Assist Preset > Underway (GPS)
While operating the boat, you can set an appropriate trim angle corresponding to the speed.

TIP:
“Underway (RPM)” and “Underway (GPS)” can be set only while the engine is starting.

To set:
(1) Select “Underway (RPM/GPS)” to open the setting screen.
(2) Select position 1, adjust to the desired engine speed/trim angle, and press “Set”.
(3) Repeat step 2 to set the remaining positions.

Resetting the Trim Assist
Menu > Boat Set > Trim Assist Preset > Reset RPM Settings
Menu > Boat Set > Trim Assist Preset > Reset GPS Settings
You can reset the trim assist value that has been set.

Selecting the Source to be Used
Menu > Boat Set > Trim Assist Preset > Source (RPM / GPS)
Sources used for trim assist are engine speed (RPM) and boat speed (GPS).

Tank Presets

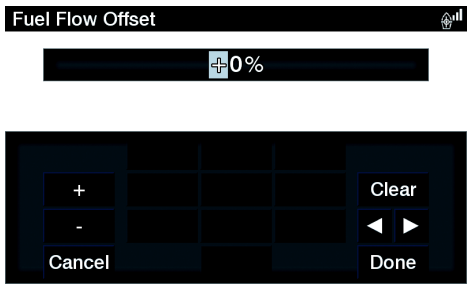
Menu > Boat Set > Tank Preset
You can set the tank information to be used.
To display tank information, you must set the tank preset.

To set:
(1) Select the tank to set.
(2) Select “Name”, enter the tank name, and select “Done”.
(3) Select “Type” and select the type of tank.
(4) Select “Sensor” and select the type of sensor.
(5) Select “Tank Capacity”, enter the tank capacity, and select “Done”.
(6) Select the calibration method, and then perform calibration according to the screen.

TIP:
The tank preset cannot be set unless a fuel sender is connected.

Calibration

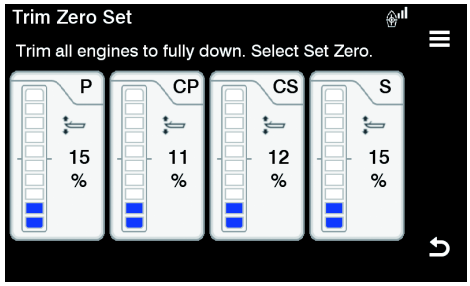
Fuel Flow Offset



Menu > Boat Set > Calibration > Fuel Flow Offset
The fuel flow display may differ depending on the natural environment and usage conditions.
To correct the display, follow the steps below.

To correct:
(1) Travel with the fuel tank full.
(2) After traveling, fill the fuel tank again and check the difference between the actual refueling amount and the fuel consumption display.
(3) Open the fuel flow offset screen, and enter the difference between the actual refueling amount and the meter's fuel consumption display.

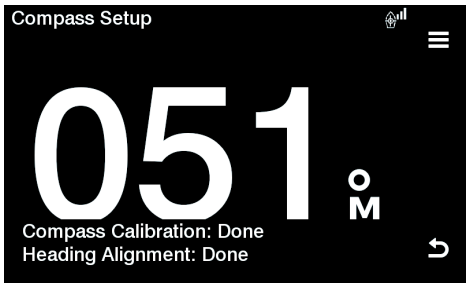
Trim Zero Set



Menu > Boat Set > Calibration > Trim Zero Set
Allows you to initialize the trim angle to zero when all outboard motors are fully trimmed down.

To initialize:
(1) Select “Set Zero”.
(2) Select “OK”.

Adjusting the Compass



Menu > Boat Set > Calibration > Compass Setup
The compass must be set before using the autopilot and SetPoint features.

TIP:
If you do not set the compass, a pop-up window will appear. Selecting “Now” in the pop-up will also display the compass setting screen.

Compass Calibration

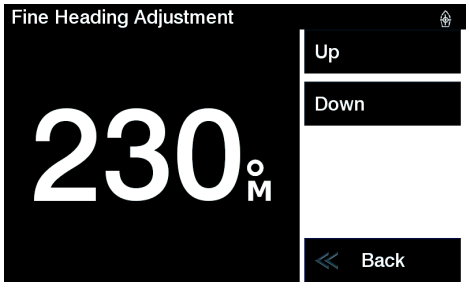
(1) Select the menu button and select “Compass Calibration”.
(2) Select “Begin” button.
(3) Follow the instructions on the screen and turn your boat 1.5 turns to the left or right.
(4) When “Calibration Status: Success” is displayed, Select “OK”.

Set North

TIP:
Before setting Set North, you must set Compass Calibration.

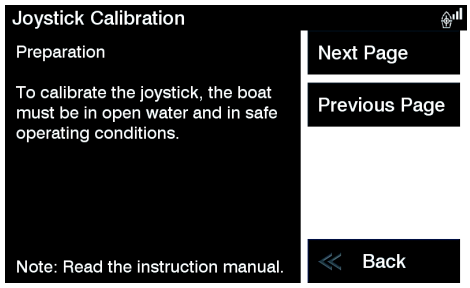
(1) Select the menu button, then select “Set North”.
(2) Select “Begin”.
(3) Follow the on-screen instructions to make your boat travel.
(4) When “Set North Status: Success” is displayed, select the “OK” button.

Fine Heading Adjustment



Menu > Boat Set > Calibration > Compass > Menu Button > Fine Heading Adjustment
By selecting the “Up” and “Down” buttons, you can adjust the compass in 1° increments.

Adjusting the Joystick



Menu > Boat Set > Calibration > Joystick Calibration
Displays the joystick correction procedure. Adjust according to the procedure shown.

Autopilot Sensitivity

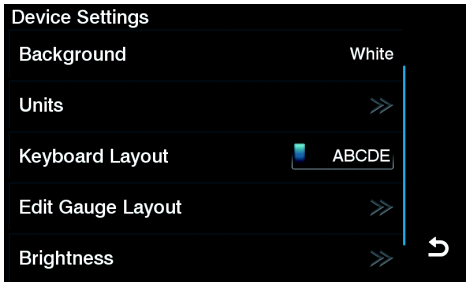
Menu > Boat Set > Calibration > Autopilot Sensitivity
You can adjust the steering sensitivity when using the autopilot feature.
Increase the level for quick steering and decrease the level for slow steering.

Off Timer

Engine Data Screen > Menu > Off Timer
You can switch the Off Timer feature.
The Off Timer is a feature that turns off the ignition switch of all engines one hour after the engine stops.

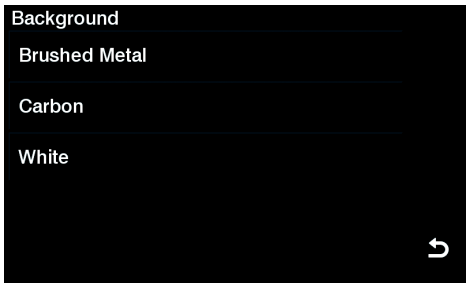
TIP:
This feature is displayed only when using Helm Master.

Device Configuration



Menu > Device Set
Various settings for the device can be performed.

Changing the Background Design



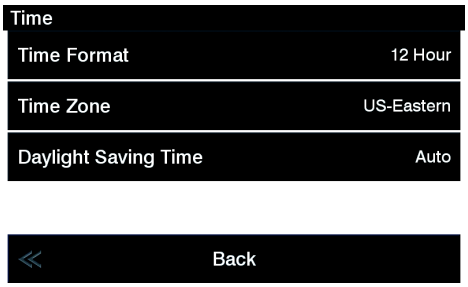
Menu > Device Set > Background
You can select and change the background design.
- Brushed Metal
- Carbon
- White

Setting the Display Unit and Time

Setting the Display Unit

Menu > Device Set > Units > System Units
You can set the units to be displayed.
Statute: Display unit suitable for the set navigation area
Metric: Meter unit
Nautical: Display unit used in navigation
Custom: Select the unit for each item

Setting the Display Time



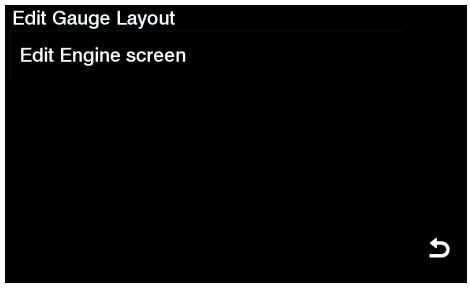
Menu > Device Set > Units > Time
You can set the time display.

Time Format: Sets the time display
Time Zone: Sets the time zone
Daylight Saving Time: Adjusts to daylight savings time.

Changing the Keyboard Layout

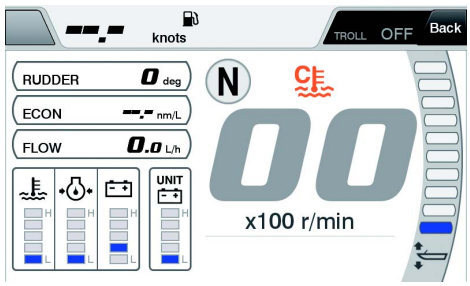
Menu > Device Set > Keyboard Layout
You can select either “QWERTY” or “ABCDE” keyboard layouts.
If you select “ABCDE”, the keys will be arranged in alphabetical order.

Display Layout Settings



Menu > Device Set > Edit Gauge Layout
You can change the arrangement of the information displayed on the display.
You can change the layout of the engine data screen.

Changing the Engine Data Screen Layout



Menu > Device Set > Edit Gauge Layout > Edit Engine Screen
Press and hold each item to change the display layout.
After pressing and holding each item, select the item you would like to display.

To return to the menu screen from the display layout screen, press the back button.

TIP:

When multiple outboard motors are installed, the display of boat status, engine status, and sub status items must be changed from the boat screen layout.

Changing the Boat Screen Layout

Menu > Device Set > Edit Gauge Layout > Edit Boat Screen

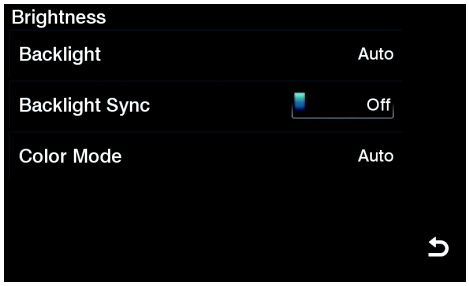
You can change the display of the boat status, engine status, and sub status items displayed when multiple outboard motors are installed.

After pressing and holding each item, select the item you would like to display.

TIP:

Displays “Edit Boat Screen” only when multiple outboard motors are installed.

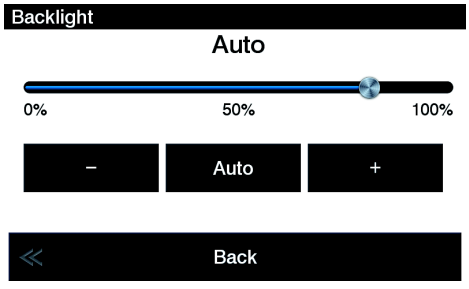
Adjusting the Backlight



Menu > Device Set > Brightness

Adjusts the backlight.

Adjusting the Backlight Brightness



Menu > Device Set > Brightness >Backlight

+: Increases brightness.

–: Decreases brightness.

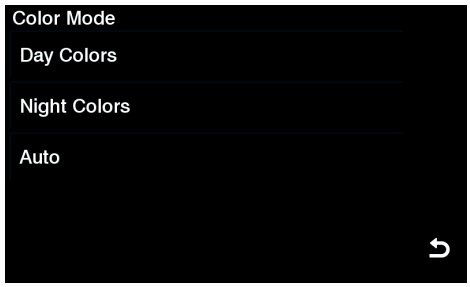
Auto: Adjusts brightness automatically.

Backlight Sync

Menu > Device Set > Backlight Sync

The brightness of multiple displays will be synchronized while the sync function is activated.

Changing the Color Mode



Menu > Device Set > Color Mode

You can select the color of the screen display.

Day Color:

The background color will be the color selected in the Background.

Night Color:

The background color will be always black.

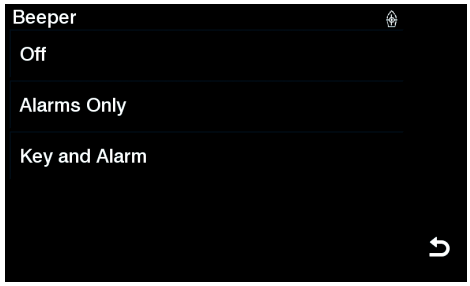
Auto:

The background color will be automatically switched between Day Color before sunset and Night Color after sunset according to the set time information and longitude.

TIP:

To select Auto, you must equip a GPS.

Setting the Buzzer Sound



Menu > Device Set > Beeper

You can adjust the buzzer sound.

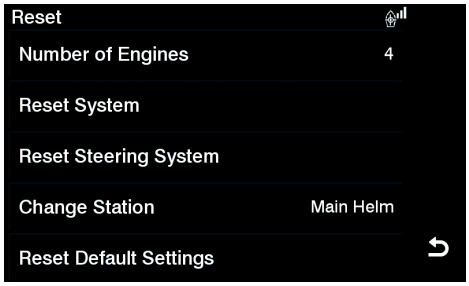
Off: Turns off the buzzer sound.

Alarms Only: The buzzer sounds only when an alarm occurs.

Key and Alarm: Buzzer sounds when being selected and when an alarm occurs.

Resetting the Settings

Resetting the Settings



Menu > Reset
You can reset the set information.

Resetting the Number of Outboard Motors

Menu > Reset > Number of Engines
You can change the number of outboard motors displayed on this device.
Display the selection screen and enter the number of outboard motors.

Resetting the System

Menu > Reset > Reset System
You can reset the system information.

Resetting the Steering System

Menu > Reset > Reset Steering System
You can reset the steering system information.

TIP:
The steering system varies depending on the outboard motor installed on your boat. If you would like to change the settings, contact your Yamaha dealer.

Switching the Stations

Menu > Reset > Change Station
You can set the station where the display is equiped.

TIP:
The selected station is displayed next to the Change Station button.

Restoring the Factory Settings

Menu > Reset > Reset Default Settings
Returns the CL5 display settings to the factory settings.

NOTICE

- **Restoring the factory settings will reset the various settings entered so far.**
- **If there is a problem with the display, contact your Yamaha dealer before resetting.**

Appendix

Cleaning the Screen

NOTICE

Cleaners containing ammonia, ethanol blended gasoline, benzine and ethanol will harm the anti-reflective coating.

The device is coated with an anti-reflective coating which is sensitive to waxes and abrasive cleaners.

To clean:
(1) Apply an eyeglass lens cleaner suitable for anti-reflective coatings to a soft, clean, lint-free cloth.
(2) Gently wipe the screen.

Screenshots

You can save a screenshot of any screen shown on your display as a bitmap (.bmp) file.
You can view the screenshot on your computer.

Taking a Screenshot

Menu > Device Set > Screenshot Capture

To take a screenshot:
(1) Connect the USB memory stick to this device.
(2) Turn on the capture settings.
(3) Display the screen you would like to capture.
(4) Tap and hold the lower left corner of the screen.

TIP:
When not using the USB memory stick, attach the cap to the device.

Troubleshooting

My device will not acquire GPS signals

If your device is not acquiring GPS signals, there could be a few causes. If your device has moved a large distance since the last time it acquired GPS signals or has been turned off for a long time, your device may not be able to acquire the GPS signals correctly.

- Ensure your device is using the latest software. If the software is not up-to-date, update the software. Contact your Yamaha dealer for software updates.
- Make sure the antenna has a clear view of the sky so that the antenna can receive the GPS signal. If it is mounted inside a cabin, make sure it is close to a window so that it can receive the GPS signal.

My device will not turn on or keeps turning off

Devices erratically turning off or not turning on could indicate an issue with the power supply to your device. Check the following to determine the cause of the power supply problem:

- Check if the battery is charged. You can check the battery charge status by checking whether other devices powered by the battery are functioning.
- Check the power fuse.

The fuse is located in a holder on the red wire of the power cable. Check that the correct amperage fuse is installed. See the label on the cable or the installation instructions for the appropriate amperage.
Also make sure there is still a connection inside the fuse. Use a multimeter to check. If the fuse is good, the multimeter will read 0 ohm.

- Make sure that your device is supplied with a voltage of 10V or more (12V is recommended).

To check the voltage, measure the DC voltage at the female power socket and the ground socket of the power cable. If the voltage is less than 10V, your device will not turn on.

- If the device is receiving enough power but does not turn on, contact your Yamaha dealer.

Contacting Yamaha Support

Contact the Yamaha dealer from which you purchased your boat.

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Product Environmental Programs
Information about the Garmin® product recycling program and WEEE, RoHS, REACH, and other compliance programs can be found at www.garmin.com/aboutGarmin/environment.

Declaration of Conformity
Hereby, Garmin declares that this product is in compliance with the Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.garmin.com/compliance.

Innovation, Science and Economic Development Canada Compliance
This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency Radiation Exposure
This device is a mobile transmitter and receiver that uses an internal antenna to send and receive low levels of radio frequency (RF) energy for data communications. The device emits RF energy below the published limits when operating in its maximum output power mode and when used with Garmin authorized accessories. To comply with RF exposure compliance requirements, the device should be installed and operated with a minimum of 20 cm (7.87 in.) between the device and your body. The device should not be used in other configurations. This device must not be co-located or operated in conjunction with any other transmitter or antenna.

FCC Compliance
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet that is on a different circuit from the GPS device.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations.

Software License Agreement
BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.
Garmin Ltd. and its subsidiaries (“Garmin”) grant you a limited license to use the software embedded in this device (the “Software”) in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin and/or its third-party providers.
You acknowledge that the Software is the property of Garmin and/or its third-party providers and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software, for which source code is not provided, are valuable trade secrets of Garmin and/or its third-party providers and that the Software in source code form remains a valuable trade secret of Garmin and/or its third-party providers. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America or the export control laws of any other applicable country.

Certificate information

CE mark

EAC mark

RCM mark

ICASA marks (for South Africa)

CL5 display:

TA-2019/2495 ICASA APPROVED

MFDI type-2 (unit):

TA-2019/2496 ICASA APPROVED

MFDI type-2 (remote controller):

TA-2019/2494 ICASA APPROVED

Compass Safe Distance:

CL5 display, MFDI type-2 (remote controller):

20 cm

MFDI type-1, MFDI type-2 (unit):

15 cm

Wireless Frequency and Nominal Power:

CL5 display, MFDI type-2 (unit):

2.4 GHz @ 17 dBm nominal

MFDI type-2 (remote controller):

2.4 GHz @ 0 dBm nominal

Battery Warning for MFDI type-2 (remote controller):

- Only replace batteries with AAA batteries. Using other batteries presents a risk of fire or explosion.
- Contact your local waste disposal department to dispose of the device/batteries in accordance with applicable local laws and regulations.

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