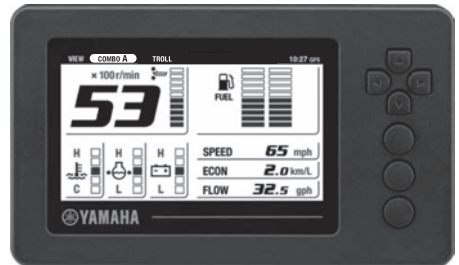




6YC INFORMATION STATION



OPERATION MANUAL

 Read this manual carefully before operation.


6YC-2819U-70-E0

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 Operation 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 question 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 Operation 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.

<p>6YC Information Station OPERATION MANUAL ©2015 by Yamaha Motor Co., LTD. 1st Edition, March 2015 All rights reserved. Any reprinting or unauthorized use without the written permission of Yamaha Motor Co., LTD. is expressly prohibited. Printed in U.S.A.</p>
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To the owner

The 6YC Information Station enables the display of information through digital communication with the engine.

The description of optional parts in this manual, such as the speed sensor, cooling water pressure sensor, Multi sensor, GPS, and Y-COP is based on the assumption that the parts are installed and set up on the outboard motor.

This product is compatible with the following outboard motors.

4-stroke models:

Fuel injection models only

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Alert Notifications

Alert Notifications

The multifunction display will notify the operator when engine abnormalities occur by displaying a pop-up window and alert icon. A pop-up window will also be displayed when specific alert conditions occur.

When events requiring multiple pop-up windows occur, the pop-up window with the highest degree of urgency is displayed first. Press the [SET] button to display pop-up windows in the order of urgency, from a higher degree of urgency to a lower degree of urgency.

There are 2 types of pop-up windows, “Alert Notifications” and “Maintenance Notifications”, each displayed with its own color.

Alert Notifications: Red

Maintenance Notifications: Yellow

Alert Notifications

Follow the instructions for responding to each specific alert. For further information, see “Alert display area” (page 14).



Overheat alert

Displayed when the engine temperature rises too high.



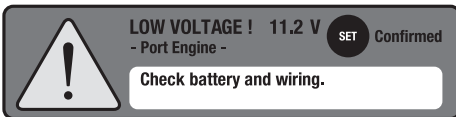
Low oil pressure alert

Displayed when the oil pressure drops too low.



Water in fuel alert

Displayed when water has accumulated in the water separator (fuel filter).



Low battery voltage alert

Displayed when the battery voltage drops low.



Check engine alert

Displayed when the engine malfunctions.

Maintenance Notifications

If this alert is displayed, carry out the maintenance and reset the maintenance schedule. See “Managing the maintenance schedule (Maintenance)” on how to reset the maintenance schedule (page 21).



Maintenance alert

Displayed when a scheduled maintenance is overdue.

General information

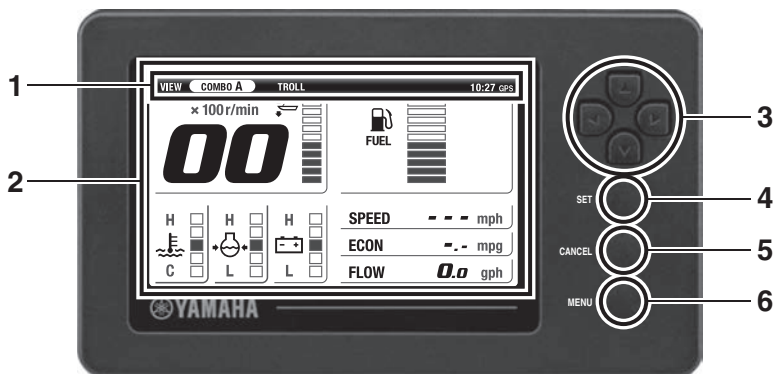
General information

List of abbreviations

The following abbreviations are used in this manual.

Abbreviations	Descriptions
ABYC	American Boat and Yacht Council
EUR	Europe
F	Forward
GPS	Global Positioning System
N	Neutral
R	Reverse
Y-COP	Yamaha Customer Outboard Protection

Meter unit



Name		Explanation of function
1	Status bar	<p>Displays the current time and the name of the currently selected main screen. (If no GPS is connected, the clock and the “GPS” icon will not be displayed.)</p> <ul style="list-style-type: none"> The clock shows the time in 24-hour format.
2	Multifunction display	<p>Displays engine information, boat/environment information, setting menus, etc.</p>
3	Directional keypad	<p>[▲▼] (Up/Down) buttons</p> <ul style="list-style-type: none"> Switches the main screen Moves cursor (selection) on the “MENU” screen Adjusts the trolling speed
		<p>[◀▶] (Left/Right) buttons</p> <ul style="list-style-type: none"> Switches the main screen Moves cursor (selection) on the “MENU” screen
4	[SET] button	<ul style="list-style-type: none"> Records the setting Moves the “MENU” screen cursor to the right Moves from the main screen to the “BRIGHTNESS” screen
5	[CANCEL] button	<ul style="list-style-type: none"> Cancels the setting Moves from any setting screen to the “MENU” screen Moves from the “MENU” screen to the main screen Moves the “MENU” screen cursor to the left Cancels the trolling mode When on the main screen, moves to the “TRIP” screen

Meter unit

	Name	Explanation of function
6	[MENU] button	<ul style="list-style-type: none">• Moves from any screen to the top “MENU” screen• Moves from the “MENU” screen or setting screen to the main screen

Initial Setting

The 6YC Information Station must be initialized before its first use or after a reset operation.

TIP:

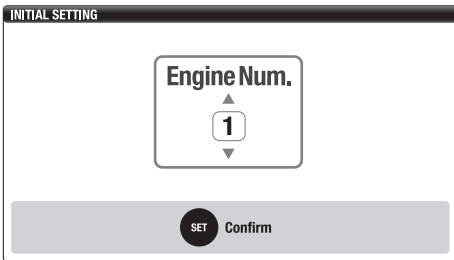
Consult a Yamaha dealer when you perform the initial setting.

Configuring the number of outboard motors

1. Turn the engine start switch to ON. The "INITIAL SETTING" screen is displayed.

TIP:

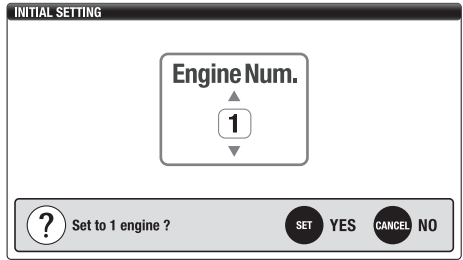
For a twin engine application, turn the PORT engine start switch to the ON position first. The system will recognize the engine turned on first as the PORT engine.



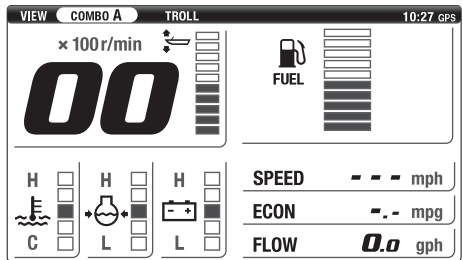
2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the number of outboard motors on your boat.

- | |
|------------------------------|
| 1: Single-engine application |
| 2: Twin-engine application |

3. Set using the [SET] button.



4. The main screen is displayed.

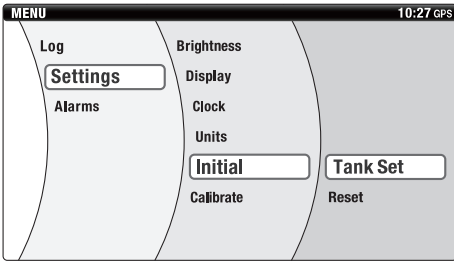


Initial Setting

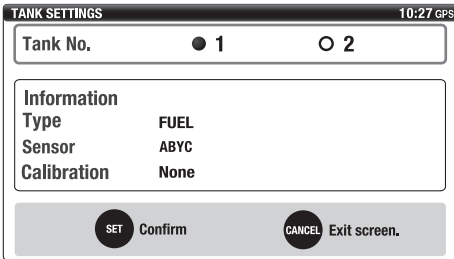
Configuring the fuel tank sensors

A fuel tank sensor calibration is required after configuring the fuel tank parameters. Perform a fuel tank sensor calibration for all the tanks that are configured as “FUEL” in the “Tank Type” setting. Otherwise, Available Fuel (AVAL) will not be displayed.

1. Press the [MENU] button in the main screen to display the “MENU” screen.
2. Use the directional keypad and the [SET] button to display “Tank Set” in the “MENU” screen.



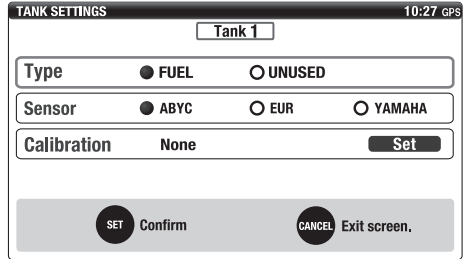
3. Use the [◀▶] (Left/Right) buttons on the directional keypad to select the tank number. Set using the [SET] button.



4. Use the directional keypad to select from options in the “Type” and “Sensor” lists. Set using the [SET] button.

TIP:

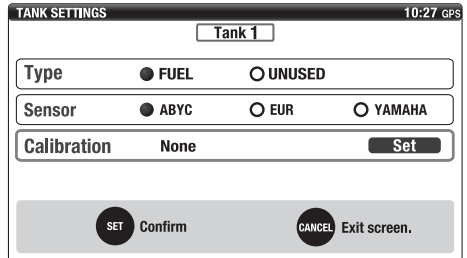
A fuel tank sensor calibration is required if the tank is configured as “FUEL” in the “Type” setting. For details, see “Calibrating the fuel tank sensors” (page 7).



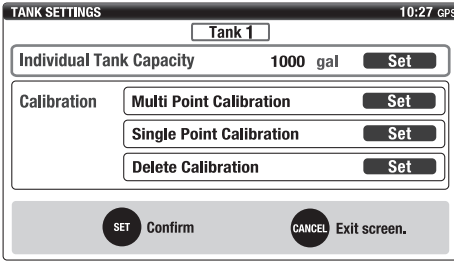
Calibrating the fuel tank sensors

Perform the fuel tank sensor calibration when the tank is empty. Old calibration data will be deleted if the sensor type or tank capacity is changed.

1. After selecting items from the “Type” and “Sensor” lists in the “Tank Set” menu, use the directional keypad to select “Calibration”. Press the [SET] button to display the Calibration menu.



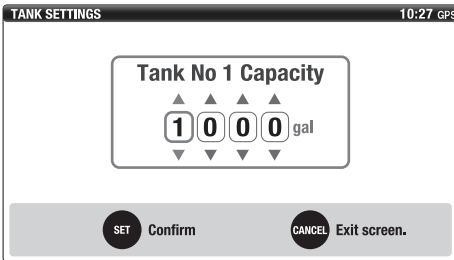
2. Select “Individual Tank Capacity”. Set using the [SET] button.



3. Use the directional keypad to configure the fuel tank capacity. Set using the [SET] button.

TIP:

- The fuel tank capacity must be configured for each fuel tank.
- The displayed unit for the fuel tank capacity can be changed. For details on how to change the displayed unit, see “Setting the displayed units (Units)” (page 32).

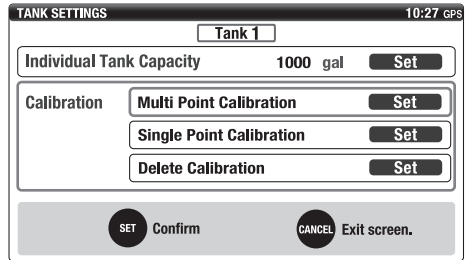


4. Select “Calibration”. Set using the [SET] button.

TIP:

- Multi Point Calibration uses 5 calibration points and Single Point Calibration uses only 1 calibration point.
- Select “Delete Calibration” to delete old calibration data.

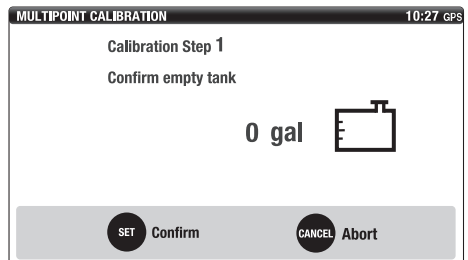
- It is not possible to proceed to “Calibration Step 1” of “Multi Point Calibration” or “Single Point Calibration” if any fuel remains in the fuel tank.



5. With no fuel remaining in the fuel tank (the fuel tank sensor should be positioned at the bottom of the fuel tank), press the [SET] button.
6. A confirmation screen will appear. Press the [SET] button to confirm.

TIP:

- The Single Point Calibration of the fuel tank sensor is complete.
- In case of the Multi Point calibration, the calibration data will be saved at each point. Accordingly, the next time you perform a calibration, it is possible to proceed with the next point even if you abort the current calibration process.

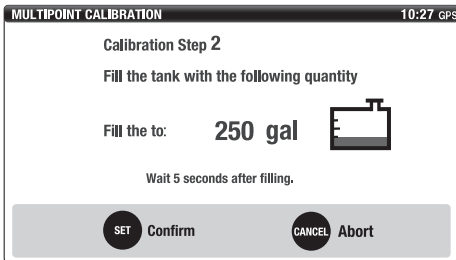


Initial Setting

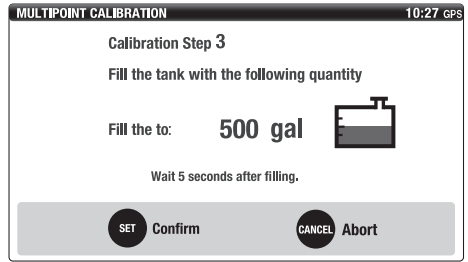
7. Fill the fuel tank to 25% of its capacity with fuel.

TIP:

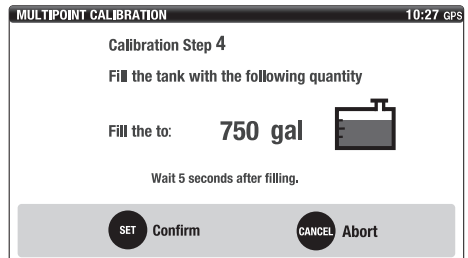
- The quantity displayed on the screen is 25% of the tank capacity.
 - An error message will appear and calibration will abort if the fuel tank sensor resistance value is different from that of the calibration point. Check the fuel quantity in the fuel tank.
8. Wait 5 seconds after filling the fuel tank with fuel, and then press the [SET] button.
 9. A confirmation screen will appear. Press the [SET] button to confirm and proceed with calibration step 2.



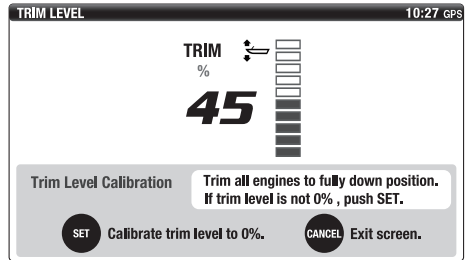
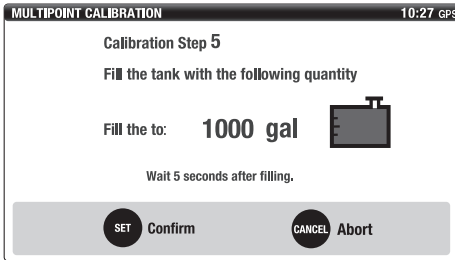
10. Fill the fuel tank to 50% of its capacity with fuel.
11. Wait 5 seconds after filling the fuel tank with fuel, and then press the [SET] button.
12. A confirmation screen will appear. Press the [SET] button to confirm and proceed with calibration step 3.



13. Fill the fuel tank to 75% of its capacity with fuel.
14. Wait 5 seconds after filling the fuel tank with fuel, and then press the [SET] button.
15. A confirmation screen will appear. Press the [SET] button to confirm and proceed with calibration step 4.

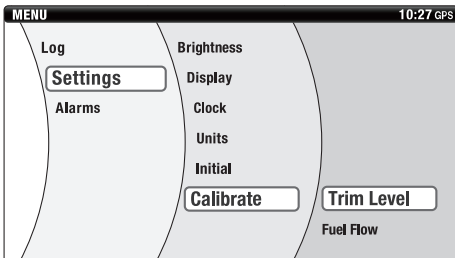
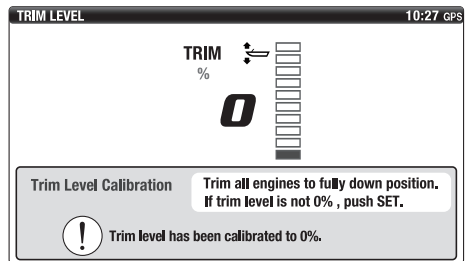


16. Fill the fuel tank to 100% of its capacity with fuel.
17. Wait 5 seconds after filling the fuel tank with fuel, and then press the [SET] button.
18. A confirmation screen will appear. Press the [SET] button to confirm and proceed with calibration step 5.
19. The fuel tank sensor calibration is complete. Press the [SET] button.



Adjusting the trim level to zero

1. Fully tilt the outboard motor down.
2. Press the [MENU] button in the main screen to display the “MENU” screen.
3. Use the directional keypad and the [SET] button to select “Trim Level” in the “MENU” screen. The “TRIM LEVEL” screen is displayed.



4. Check that the displayed trim level is “0%”.
5. If a value other than “0%” is displayed, press the [SET] button to reset the setting.

Main screen

Main screen

The main screens display various types of information graphically and numerically. It is possible to switch between 4 types of main screens: “COMBO”, “ENGINE”, “BOAT”, and “TROLL”.

TIP:

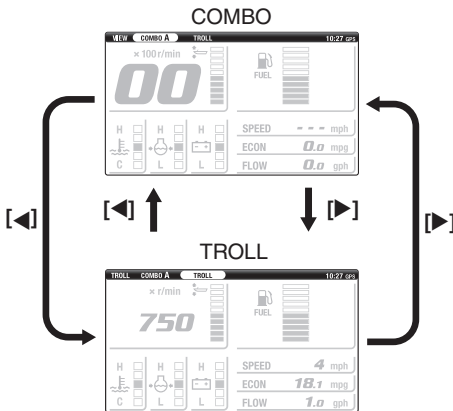
Depending on the model of the outboard motor, some functions may not be available. For detailed information, consult a Yamaha dealer.

Switching the screens

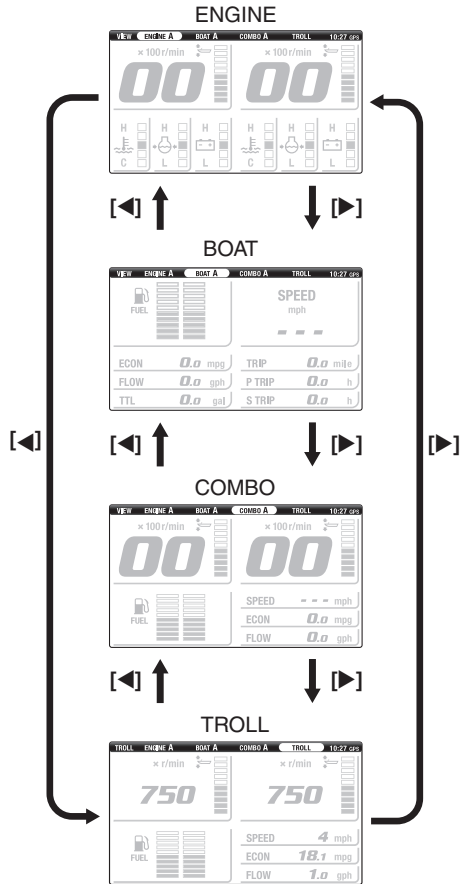
It is possible to change the main screen design to suit your preference by selecting from screen type options.

Use the [◀▶] (Left/Right) buttons on the directional keypad to switch between the main screens.

Single-engine application



Twin-engine application

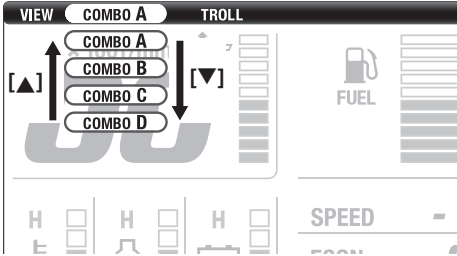


It is possible to switch between 4 preregistered screen types (A-D) for the following main screens: “COMBO”, “ENGINE”, “BOAT”.

Use the [▲▼] (Up/Down) buttons on the directional keypad to switch between the screen types.

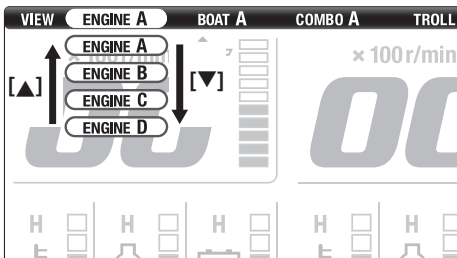
Up to 4 screen types (A–D) can be preregistered. For details on how to preregister the screen types, see “Customizing the screen (Favorites)” (page 23).

Single-engine application

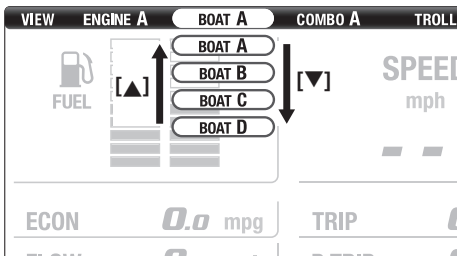


Twin-engine application

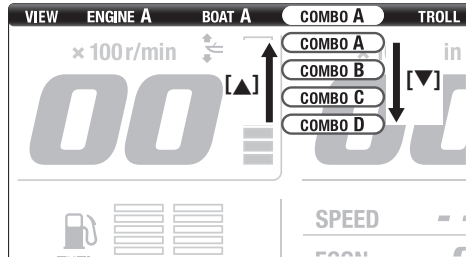
ENGINE



BOAT



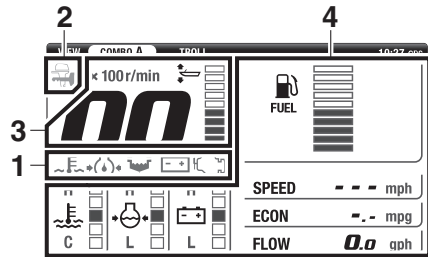
COMBO



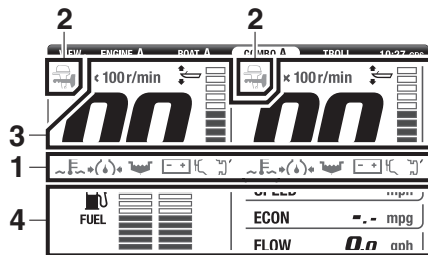
COMBO

The “COMBO” screen displays engine information and boat/environment information.

Single-engine application



Twin-engine application



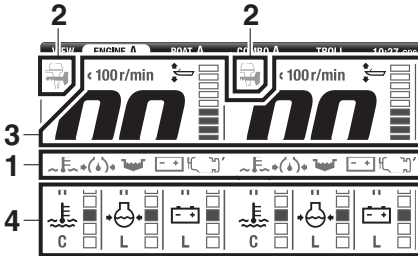
1. Alert display area (icons)
2. Y-COP display area
3. Basic display area
4. Specific selection area

Main screen

ENGINE

The “ENGINE” screen displays engine information.

This screen is not displayed in a single-engine application.

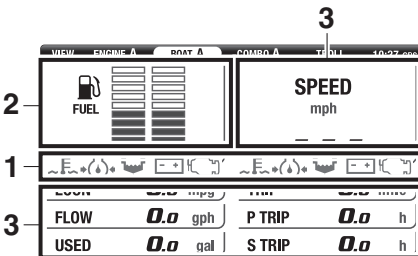


1. Alert display area (icons)
2. Y-COP display area
3. Basic display area
4. Specific selection area

BOAT

The “BOAT” screen displays boat/environment information.

This screen is not displayed in a single-engine application.



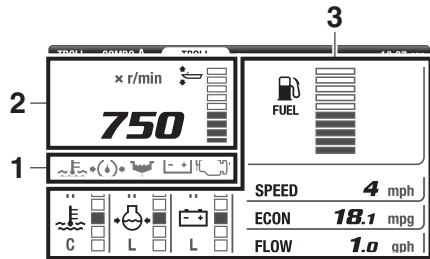
1. Alert display area (icons)
2. Basic display area
3. Specific selection area

TROLL

The “TROLL” screen allows you to switch to a trolling mode and adjust the trolling speed.

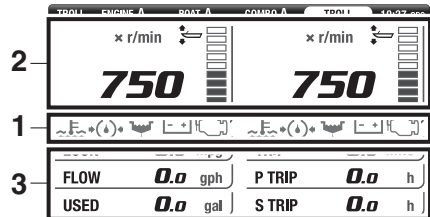
For details on how to adjust the trolling speed, see “Adjusting the trolling speed” (page 17).

Single-engine application



1. Alert display area (icons)
2. Basic display area
3. Specific selection area

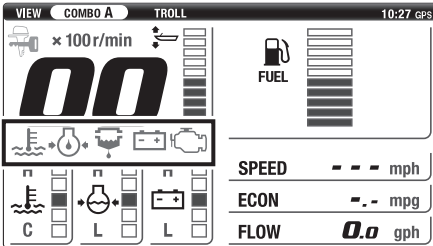
Twin-engine application



1. Alert display area (icons)
2. Basic display area
3. Specific selection area

Alert display area

Red-colored alert indicators will be displayed in the alert display area for “Overheat alert”, “Low oil pressure alert”, “Water in fuel alert”, “Low battery voltage alert”, and “Check engine alert/maintenance alert”. If an alert indicator is displayed, follow the instructions for responding to each specific alert.

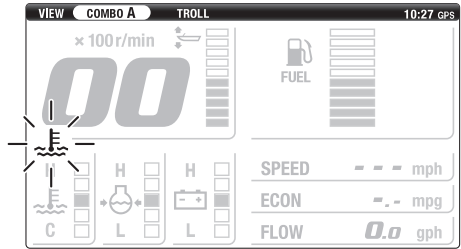


■ Overheat alert

The cooling water temperature icon blinks when the engine temperature rises too high. Additionally, the engine speed becomes limited and an alert buzzer sounds. Stop the engine and check that the cooling water inlet on the lower case is not clogged.

NOTICE

- Do not operate the outboard motor when the overheat alert is displayed. Otherwise, severe engine damage could result.
- Consult your Yamaha dealer if the problem cannot be located and corrected.

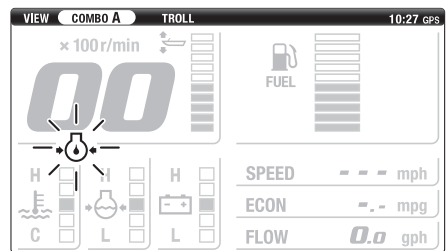


■ Low oil pressure alert

The oil pressure icon blinks when the oil pressure drops below a specific value. Additionally, the engine speed becomes limited and an alert buzzer sounds. Stop the engine and check the engine oil level. For details on how to check the engine oil level, see the Owner’s Manual of the outboard motor.

NOTICE

- Do not operate the engine without engine oil. Otherwise, severe engine damage could result.
- Consult your Yamaha dealer if the problem cannot be located and corrected.



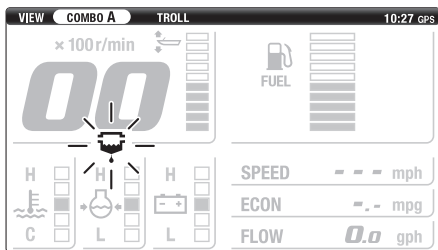
Main screen

■ Water in fuel alert

The water detection alert icon blinks when water has accumulated in the water separator (fuel filter) during cruising. Stop the engine and drain the water from the water separator (fuel filter). For details on how to drain the water, see the Owner's Manual of the outboard motor.

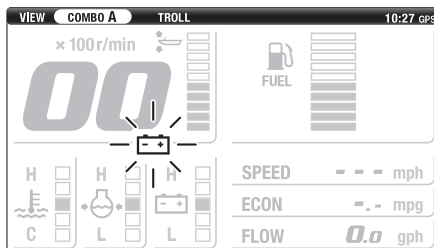
NOTICE

- **Water in fuel can cause engine malfunction.**
- **Consult your Yamaha dealer if the problem cannot be located and corrected.**



■ Low battery voltage alert

The battery voltage alert icon blinks when the battery voltage drops low. Start the engine immediately to charge the battery when the alert has activated. When the alert is constantly on even if the engine is running, get back to port immediately and consult a Yamaha dealer to check the battery charging system.



■ Check engine alert/maintenance alert

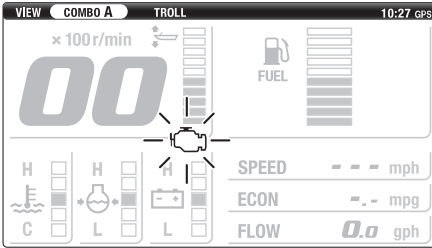
The check engine alert icon blinks when the engine malfunctions. Take the engine to a Yamaha dealer and have it checked immediately. The check engine alert icon also comes on when more than 100 hours have elapsed since the previous maintenance.

NOTICE

The engine is not being controlled properly. Take the engine to a Yamaha dealer and have it checked immediately.

TIP:

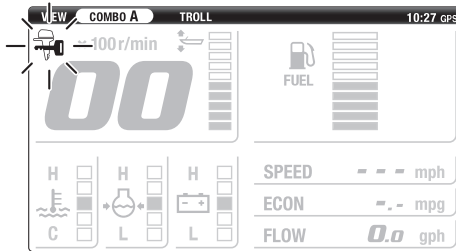
- In case of an engine malfunction, the check engine alert icon keeps blinking until the engine trouble is corrected.
- In case of a maintenance alert, the check engine alert icon remains displayed until the maintenance schedule is reset.
- If more than 100 hours have elapsed since the previous maintenance and a maintenance notification is displayed, take the engine to a Yamaha dealer and have it checked immediately.
- For details on how to reset the maintenance schedule, see "Managing the maintenance schedule (Maintenance)" (page 21).



Y-COP display area

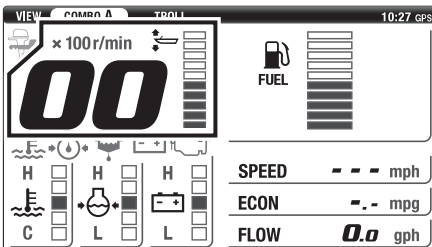
When Y-COP is locked, the Y-COP icon comes on.

* Installation of Y-COP (optional) is required for this feature to be available.



Basic display area

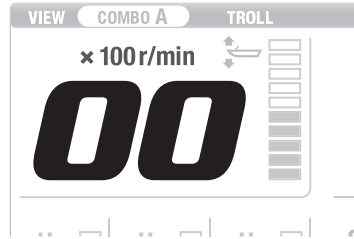
The tachometer, trim meter, and fuel gauge are displayed in the basic display area.



Tachometer

The tachometer shows the engine revolutions per minute.

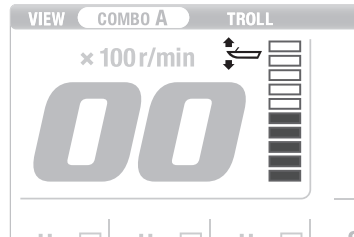
COMBO, ENGINE, TROLL



Trim meter

The trim meter shows the trim angle of the outboard motor in 10 levels. When the outboard motor is tilted up beyond the trim range, all the segments turn to orange and blink.

COMBO, ENGINE, TROLL

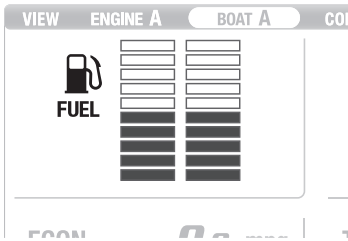


Fuel gauge

The fuel gauge indicates the remaining fuel in 10 levels. All the segments are displayed when the fuel tank is full. When the fuel level is low, the lowest segment blinks. When 2 fuel tanks are connected, each segment is divided into two, right and left, and remaining fuel level in each tank is displayed individually.

Main screen

BOAT



Specific selection area

It is possible to select the types of information displayed in the specific selection area. For details on how to customize the specific selection area, see “Customizing the screen (Favorites)” (page 23).

Adjusting the trolling speed

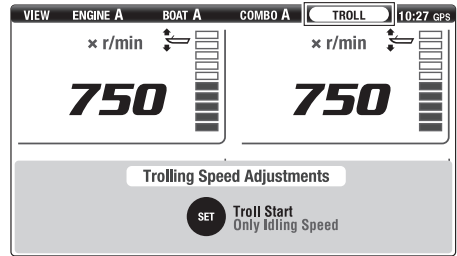
The “TROLL” main screen allows to adjust the trolling speed. The trolling speed can be adjusted randomly by increasing or decreasing it in approximate steps of 50 r/min. In a twin-engine application, the trolling speeds of both engines are synchronized.

This function is not available for outboard motors not equipped with a trolling speed adjustment function.

In order to switch to the trolling mode, all of the following conditions must be satisfied.

- Engine running (shift-in).
- Throttle fully closed.
- “TROLL” selected as the main screen.

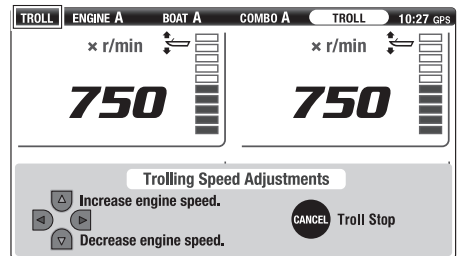
1. Select the “TROLL” main screen.



2. Press the [SET] button to switch to the trolling mode.

TIP:

While the trolling mode is active, “TROLL” is shown in the status bar in place of “VIEW”.

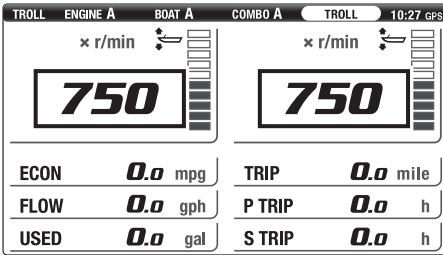


3. Use the [▲▼] (Up/Down) buttons of the directional keypad to adjust the trolling speed.

TIP:

- To increase the trolling speed, press the [▲] (Up) button.
- To decrease the trolling speed, press the [▼] (Down) button.
- When warming up a cold engine, the trolling speed cannot be decreased below the engine high idle speed during warm up.
- The trolling speed adjustment range depends on the outboard motor model.

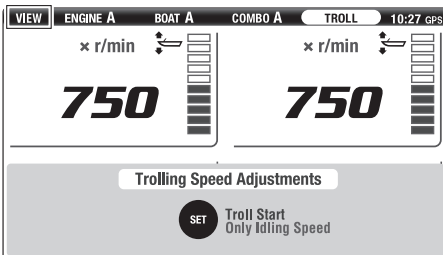
- The trolling speed cannot be adjusted when the gear shift is in the N position.



4. Set the gear shift in the N position, and then press the [CANCEL] button to exit the trolling mode.

TIP:

- When the trolling mode is canceled, “TROLL” switches to “VIEW” in the status bar.
- If the throttle lever is in the fully closed position, pressing the [CANCEL] button will cancel the trolling mode, even when the gear shift is in the F or R position.
- The trolling mode is also canceled when the engine is turned off or when the engine speed exceeds 3000 r/min.



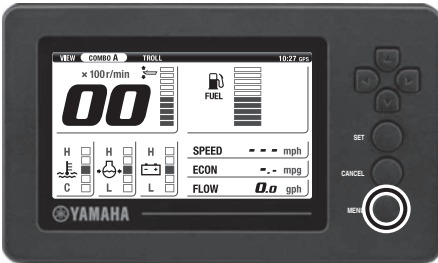
MENU screen

MENU screen

Various settings and reset operations can be made in the “MENU” screen. This screen also allows you to view information recorded on the outboard motor.

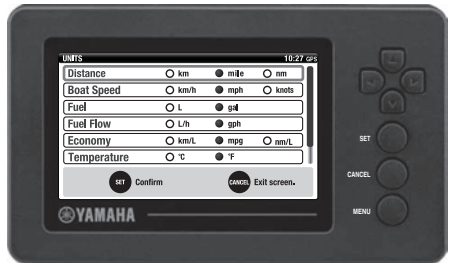
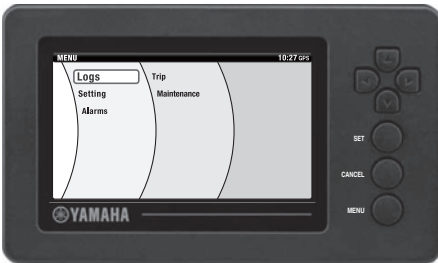
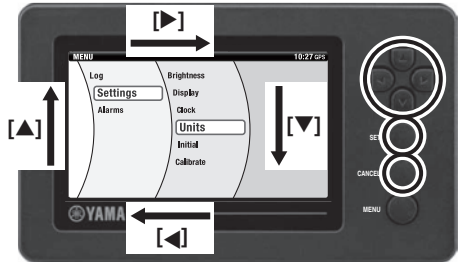
Switching the screens

1. Press the [MENU] button in the main screen to display the “MENU” screen.



TIP:

- Press the [CANCEL] button to return to the previous menu.
- If no action is performed for 30 seconds, the screen will automatically switch to the main screen.
- Pressing the [MENU] button will also switch the display to the main screen.



2. Use the directional keypad buttons and the [SET] button to select the desired menu. The setting screen for the selected menu is displayed.

To return to the main screen, press the [CANCEL] button while any item in the leftmost field is selected.

3. Use the directional keypad buttons and the [SET] button to select from options available for each item. Press the [CANCEL] button to return to the “MENU” screen.

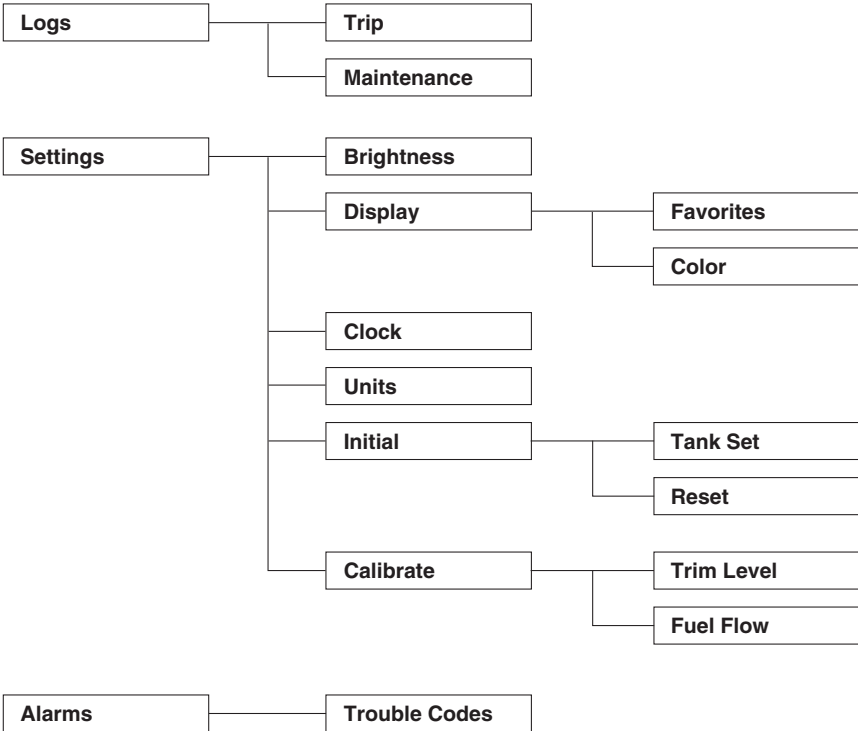
TIP:

Pressing the [MENU] button will switch the display to the main screen. However, the settings are not saved if the changes are not confirmed using the [SET] button.



Features

The "MENU" screen consists of the following menu items.



MENU screen

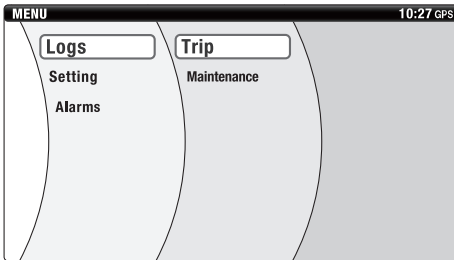
Menu items

The display layout differs depending on the number of outboard motors. The sample screen images here are for a twin-engine application.

■ Resetting “Trip” information (Trip)

In the “Trip” menu, available fuel/fuel consumption, traveled distance, trip hours, and total operating hours can be reset.

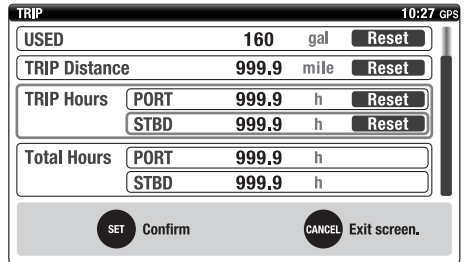
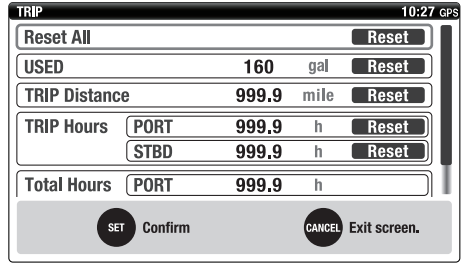
1. Use the directional keypad and the [SET] button to select “Trip” in the “MENU” screen. The “TRIP” screen is displayed.



2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the item you wish to reset.
Set using the [SET] button.

TIP:

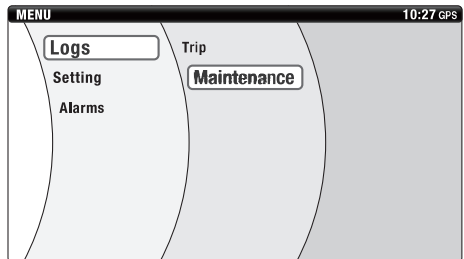
- Reset All: Resets all the current settings in “Trip”.
- USED: Resets fuel consumption.
- TRIP Distance: Resets traveled distance.
- TRIP Hours: Resets trip hours.
- Pressing the [CANCEL] button will also display the “Trip” setting screen.



■ Managing the maintenance schedule (Maintenance)

In the “Maintenance” menu, you can view or reset the current maintenance schedule.

1. Use the directional keypad and the [SET] button to select “Maintenance” in the “MENU” screen.



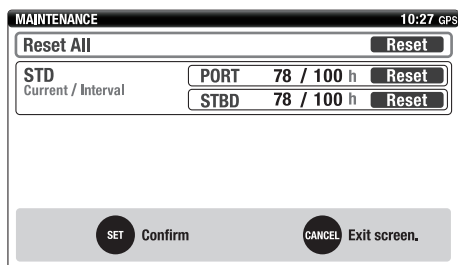
2. The “MAINTENANCE” screen is displayed.

TIP:

- “Current” indicates the elapsed hours since the previous maintenance (reset).
 - “Interval” indicates the recommended interval between maintenances.
3. To reset the maintenance schedule, use the [▲▼] (Up/Down) buttons on the directional keypad to select the engine. Set using the [SET] button.

TIP:

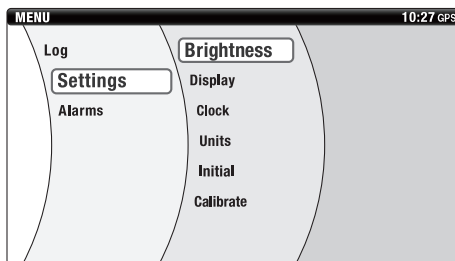
- Reset All: This option is available for a twin-engine application only. It resets the maintenance schedule of both engines.
- STD: Displays and resets the current maintenance schedule of each engine.
- It is not possible to change the maintenance interval (100 h).



■ Changing backlight settings (Brightness)

In the “Brightness” menu, the brightness level of the backlight can be adjusted and changeover time between Day and Night screens can be configured for all meters synchronously.

1. Use the directional keypad and the [SET] button to select “Brightness” in the “MENU” screen. The “BRIGHTNESS” screen is displayed.

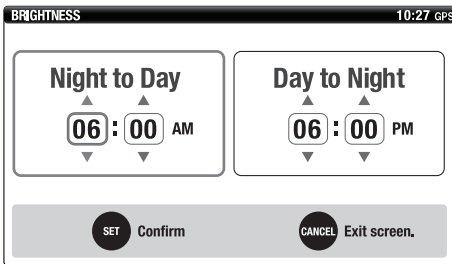
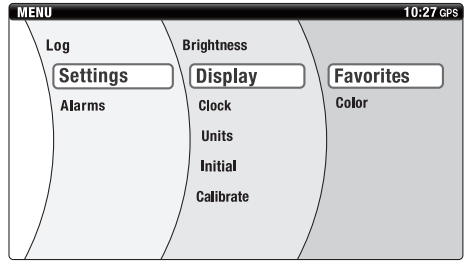
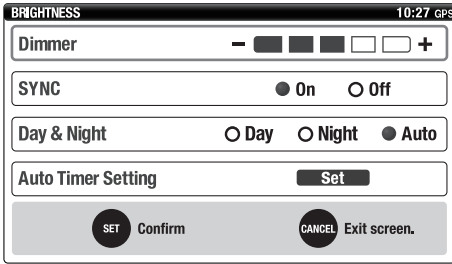


2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the item. Use the [◀▶] (Left/Right) buttons on the directional keypad to change the settings. Set using the [SET] button.

TIP:

- Dimmer: Adjusts the brightness level of the backlight. The brightness level can be adjusted in 5 levels. The backlight turns off when the level is set to zero.
- SYNC: When “On” is selected, the settings are synchronously applied to all the connected meters.
- Day & Night: When “Night” is selected, the brightness of the screen is reduced to half of that of the Day screen. When “Auto” is selected, the screen switches between Day and Night screens at the changeover time preset with “Auto Timer Setting”.
- Auto Timer Setting: Allows to configure the changeover time from Day screen to Night screen, and vice versa. The changeover time can be set between AM 0:00 and PM 11:45 in 15-minute increments.
- Even when “Auto” is selected, the Day screen is displayed if time information cannot be received from the GPS.
- Pressing the [SET] button will also switch the display to the “BRIGHTNESS” screen.

MENU screen

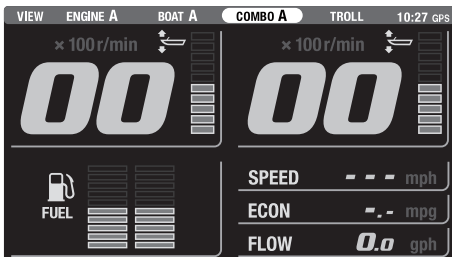


2. Use the directional keypad to select a screen from “Screen Type”. Set using the [SET] button.

TIP:

- “Combo” and “Troll” can be customized for a single-engine application.
- “Engine”, “Boat Stats”, “Combo”, and “Troll” can be customized for a twin-engine application.
- Up to 4 types (A–D) of “Screen Type” can be registered for each screen. When “Troll” is selected, screen types cannot be registered.

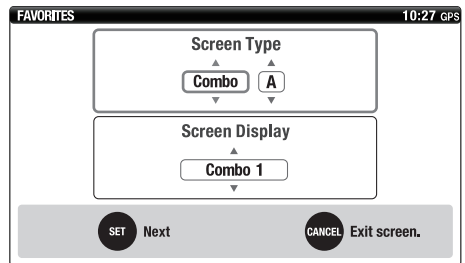
The main screen when “Night” is selected.



■ Customizing the screen (Favorites)

In the “Favorites” menu, it is possible to customize the main screens (“ENGINE”, “BOAT”, “COMBO”, and “TROLL”) by selecting the items to be displayed.

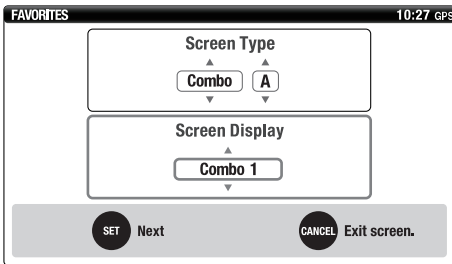
1. Use the directional keypad and the [SET] button to select “Favorites” in the “MENU” screen. The “FAVORITES” screen is displayed.



3. Use the [▲▼] (Up/Down) buttons on the directional keypad to select a screen from “Screen Type”. Set using the [SET] button.

TIP:

- “Display” or “No Display” can be selected for a single-engine application.
- “Combo 1”, “Combo 2”, or “No Display” can be selected for a twin-engine application.
- When “No Display” is selected, the screen type you have selected in “Screen Type” is not displayed.
- When “Troll” is selected for “Screen Type”, “Screen Display” cannot be selected.

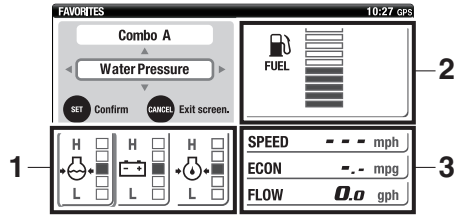


4. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the item to be displayed.
Use the [◀▶] (Left/Right) buttons on the directional keypad to change the display position of each item.
Set using the [SET] button.

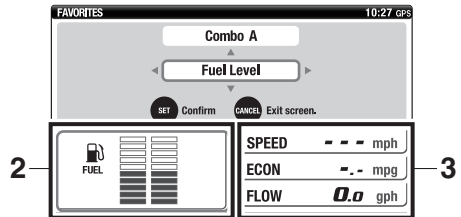
TIP:

- The display setting screen for “Troll” is the same as those for “Combo” (for single-engine application) and “Engine” (for twin-engine application).

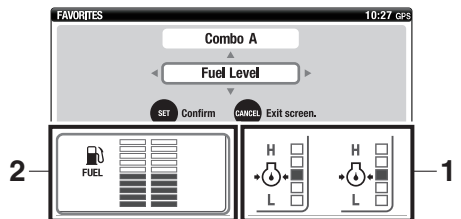
Combo, Troll (Single-engine application)



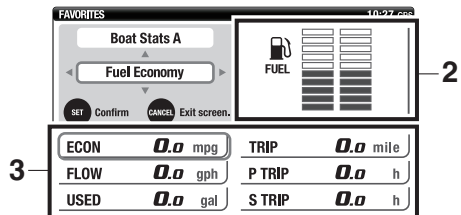
Combo 1 (Twin-engine application)



Combo 2 (Twin-engine application)

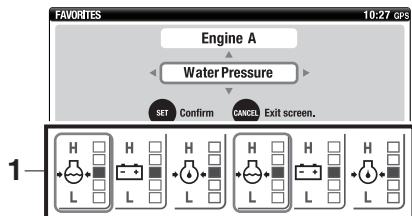


Boat Stats




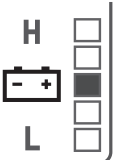


MENU screen

Engine, Troll (Twin-engine application)





1. Specific selection area 1
2. Specific selection area 2
3. Specific selection area 3


Display items for specific selection area 1

	<p>Battery voltage value (Batt Voltage Value) Shows the battery voltage in a digital value.</p> <p>TIP: When the battery voltage decreases to less than 12 volts or increases to 16 volts or more, the voltage value blinks.</p>
	<p>Battery voltage level (Batt Voltage Level) Shows the battery voltage level of the engine in 5 levels.</p> <p>TIP: The display shows “L” for low and “H” for high.</p>
	<p>Cooling water temperature (Cooling Water Temp) Shows the cooling water temperature in 5 levels.</p> <p>TIP: The display shows “C” for cool and “H” for hot.</p>
	<p>Cooling water pressure (PSI) (Water Pressure(PSI)) Shows the cooling water pressure in 5 levels. * Installation of the water pressure sensor (optional) is required for this feature to be available.</p> <p>NOTICE</p> <ul style="list-style-type: none"> • If the cooling water pressure drops to 10 psi (69 kPa) or less during cruising with the throttle fully open, turn the engine off and check the cooling water inlet for clogs. • Consult your Yamaha dealer if the problem cannot be located and corrected.

MENU screen

 The icon shows a cooling system symbol (a circle with a wavy line) and a vertical bar with five segments. The top segment is labeled 'H' and the bottom segment is labeled 'L'. The second segment from the top is filled with black, indicating the current pressure level.	<p>Cooling water pressure (Water Pressure) Shows the cooling water pressure in 5 levels. * Installation of the water pressure sensor (optional) is required for this feature to be available.</p> <p>NOTICE</p> <ul style="list-style-type: none">• If the cooling water pressure drops to the second segment or less during cruising with the throttle fully open, turn the engine off and check the cooling water inlet for clogs.• Consult your Yamaha dealer if the problem cannot be located and corrected. <p>TIP: The display shows “L” for low and “H” for high.</p>
 The icon shows an engine oil symbol (a circle with a drop) and a vertical bar with five segments. The top segment is labeled 'H' and the bottom segment is labeled 'L'. The second segment from the top is filled with black, indicating the current oil pressure level.	<p>Engine oil pressure (Oil Pressure) Shows the engine oil pressure in 5 levels.</p> <p>TIP:</p> <ul style="list-style-type: none">• The display shows “L” for low and “H” for high.• The engine oil pressure indicator does not indicate the engine oil level.• For F130 and smaller engines, the engine oil pressure display is not available. In this case, select items other than “Oil Pressure”.• Depending on the operating conditions, such as when the engine is operated at extremely low speeds, the engine oil pressure may be shown as “L” (low) even when the engine is operating properly.
	<p>No display (Hide) Nothing is displayed (blank area).</p>

Display items for specific selection area 2

<p style="text-align: center;">FLOW gph 000.0</p>	<p>Total Fuel Flow (FLOW) Shows the total amount of fuel flow per hour for all the engines.</p>
<p style="text-align: center;">ECON mpg 00.0</p>	<p>Fuel Economy (ECON) Shows the distance traveled per unit of fuel. * Installation of the speed sensor (optional), multi sensor (optional), or GPS is required for this feature to be available.</p> <p>TIP: Fuel economy is affected by the type of boat being operated and the operating conditions, and it is constantly changing.</p>
<p style="text-align: center;">SPEED mph 000</p>	<p>Boat Speed (SPEED) Shows the speed-over-ground or speed-over-water of the boat. * Speed-over-ground is not displayed if a GPS is not installed. * Installation of the speed sensor (optional) or multi sensor (optional) is required for this feature to be available.</p>
<p style="text-align: center;">AVAL gal 0000</p>	<p>Available Fuel (AVAL) Shows the total amount of remaining fuel in all the fuel tanks. If sensor calibration is not completed for all the fuel tank sensors, Available Fuel will not be displayed.</p>
	<p>Fuel Level (FUEL) Shows the fuel level in 10 levels. All the segments are displayed when the fuel tank is full. When the fuel level is low, the lowest segment blinks. When 2 fuel tanks are connected, each segment is divided into two, right and left, and the remaining fuel level in each tank is displayed individually.</p>
	<p>No display (Hide) Nothing is displayed (blank area).</p>

MENU screen

Display items for specific selection area 3

<p>TEMP <i>000</i> °F</p>	<p>Surface Water Temp (TEMP) Shows the surface water temperature. * Installation of the multi sensor (optional) is required for this feature to be available.</p>
<p>DEPTH <i>000</i> ft</p>	<p>Depth (DEPTH) Shows the water depth. * Installation of the multi sensor (optional) is required for this feature to be available.</p>
<p>TRIP <i>000.0</i> h</p>	<p>Trip Meter (h) (TRIP) (single-engine application) Shows the operating hours of the engine.</p>
<p>S TRIP <i>000.0</i> h</p>	<p>Stbd Trip Meter (h) (S TRIP) (twin-engine application) Shows the trip hours of the starboard engine.</p>
<p>P TRIP <i>000.0</i> h</p>	<p>Port Trip Meter (h) (P TRIP) (twin-engine application) Shows the trip hours of the port engine.</p>
<p>S FLOW <i>000.0</i> gph</p>	<p>Stbd Fuel Flow (S FLOW) (twin-engine application) Shows the amount of fuel flow per hour for the starboard engine.</p>
<p>P FLOW <i>000.0</i> gph</p>	<p>Port Fuel Flow (P FLOW) (twin-engine application) Shows the amount of fuel flow per hour for the port engine.</p>
<p>FLOW <i>000.0</i> gph</p>	<p>Total Fuel Flow (FLOW) Shows the total amount of fuel flow per hour for all the engines.</p>
<p>AVAL <i>0000</i> gal</p>	<p>Available Fuel (AVAL) Shows the total amount of remaining fuel in all the fuel tanks. If sensor calibration is not completed for all the fuel tank sensors, Available Fuel will not be displayed.</p>

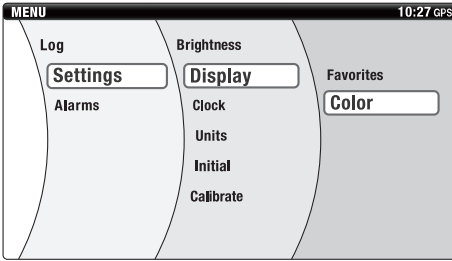
<p>USED <i>000.0</i> gal</p>	<p>TTL Fuel Consumption (USED) Shows the total fuel consumption for all the engines.</p> <p>TIP: TTL Fuel Consumption can display up to 9999 gal (9999 L). If the amount of consumed fuel exceeds this amount, “9999” will blink to notify the user.</p>
<p>TRIP <i>0000</i> mile</p>	<p>Trip Distance (TRIP) Shows information from the speed sensor, multi sensor, and GPS converted to the distance traveled.</p> <p>* Installation of the speed sensor (optional), multi sensor (optional), or GPS is required for this feature to be available.</p> <p>TIP: The distance traveled is affected by currents and other operating conditions and may differ from the actual distance traveled.</p>
<p>ECON <i>00.0</i> mpg</p>	<p>Fuel Economy (ECON) Shows the distance traveled per unit of fuel.</p> <p>* Installation of the speed sensor (optional), multi sensor (optional), or GPS is required for this feature to be available.</p> <p>TIP: Fuel economy is affected by the type of boat being operated and the operating conditions, and it is constantly changing.</p>
<p>SPEED <i>000</i> mph</p>	<p>Boat Speed (SPEED) Shows the speed-over-ground or speed-over-water of the boat.</p> <p>* The speed-over-ground is only shown when a GPS is connected.</p> <p>* Installation of the speed sensor (optional) or multi sensor (optional) is required for this feature to be available.</p>
	<p>No display (Hide) Nothing is displayed (blank area).</p>

MENU screen

■ Setting the background color (Color)

In the “Color” menu, it is possible to change the colors for background and text of the main screen.

1. Use the directional keypad and the [SET] button to select “Color” in the “MENU” screen. The “COLOR” screen is displayed.

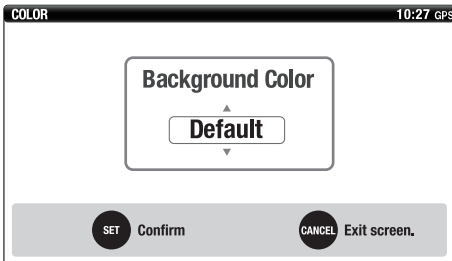


2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the color. Set using the [SET] button.

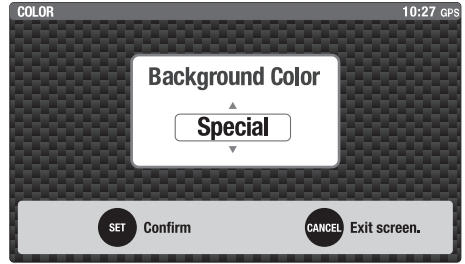
TIP:

“Default” or “Special” can be selected as the background color.

Default



Special



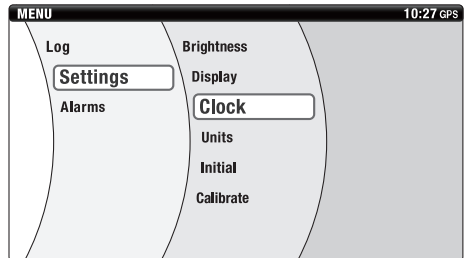
■ Adjusting the clock (Clock)

In the “Clock” menu, it is possible to configure a time offset.

This time offset will be applied for Daylight Savings Time and time zone difference.

* The clock is not displayed if a GPS is not installed.

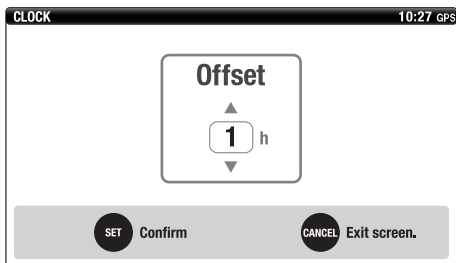
1. Use the directional keypad and the [SET] button to select “Clock” in the “MENU” screen. The “CLOCK” screen is displayed.



2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the amount of time to offset the clock. Set using the [SET] button.

TIP:

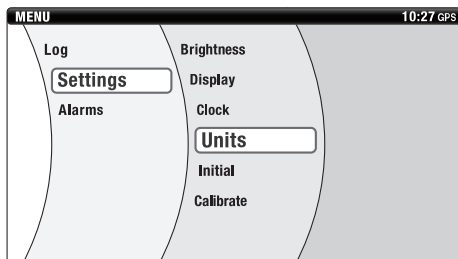
The adjustable range is from -12h to +12h.



■ Setting the displayed units (Units)

In the “Units” menu, it is possible to change the displayed units.

1. Use the directional keypad and the [SET] button to select “Units” in the “MENU” screen. The “UNITS” screen is displayed.



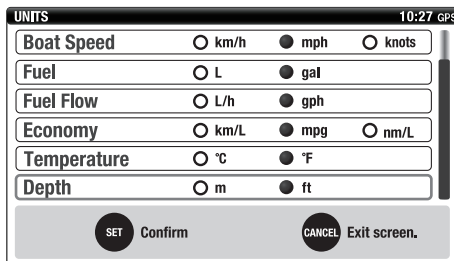
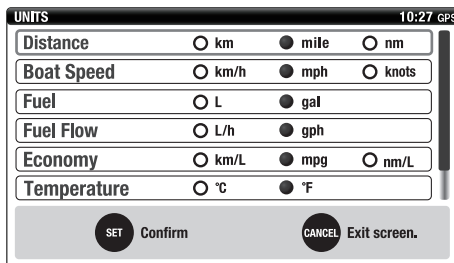
2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the item. Use the [◀▶] (Left/Right) buttons on the directional keypad to select the unit. Set using the [SET] button.

TIP:

- The default is set to the units of “mile” group as shown in the table below (shaded column).
- If the unit for “Distance” is changed, units for other items will be changed accordingly to the units of the same group as follows.

Distance	km	mile	nm
Boat Speed	km/h	mph	knots
Fuel	L	gal	L
Fuel Flow	L/h	gph	L/h
Economy	km/L	mpg	nm/L
Temperature	°C	°F	°C
Depth	m	ft	m

- The display unit can be selected from km, mile (land mile: 1.609 km), and nm (nautical mile: 1.852 km).
- Boat Speed: Selectable from km/h, mph, and knots.
- Fuel: Selectable from L and gal.
- Fuel Flow: Selectable from L/h and gph.
- Economy: Selectable from km/L, mpg, and nm/L.
- Temperature: Selectable from °C and °F.
- Depth: Selectable from m and ft.

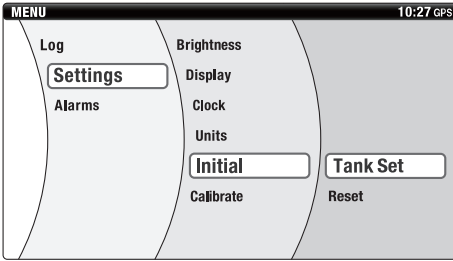


MENU screen

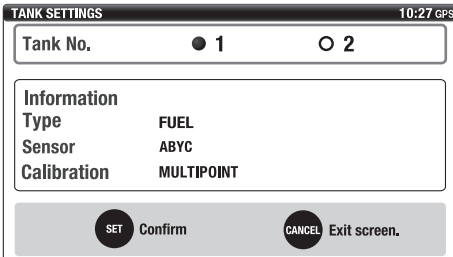
■ Setting the tanks (Tank Set)

In the “Tank Set” menu, it is possible to configure the settings for the fuel tank. Up to 2 tanks can be configured.

1. Use the directional keypad and the [SET] button to select “Tank Set” in the “MENU” screen. The “TANK SETTINGS” screen is displayed.



2. Use the [◀▶] (Left/Right) buttons on the directional keypad to select the tank number. Set using the [SET] button.



3. Use the directional keypad to select the tank type from the “Type” list.

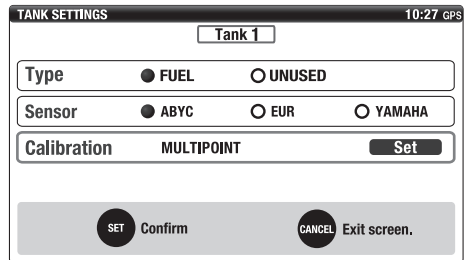
TIP:

- FUEL: Fuel tank
- UNUSED: Tank not used

4. Use the directional keypad to select the sensor type from the “Sensor” list.

TIP:

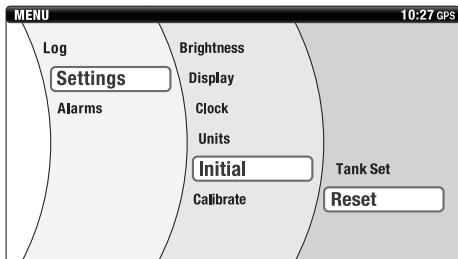
- ABYC: USA
- EUR: Europe
- YAMAHA: Yamaha
- A fuel tank sensor calibration is required if the tank is configured as “FUEL” for “Tank Set”.
- Multiple Point Calibration: Sensors are calibrated at 5 points (0%, 25%, 50%, 75%, 100%).
- Single Point Calibration: Sensors are calibrated at 1 point (0%).
- Delete Calibration: Old calibration data will be deleted.
- None: Fuel tank sensor calibration is not completed.
- No display: Tank is configured as “UNUSED”.
- For details on how to calibrate the fuel tank sensor, see “Calibrating the fuel tank sensors” (page 7).



■ Initializing the meter (Reset)

In the “Reset” menu, it is possible to reset the meter to its default settings.

1. Use the directional keypad and the [SET] button to select “Reset” in the “MENU” screen.

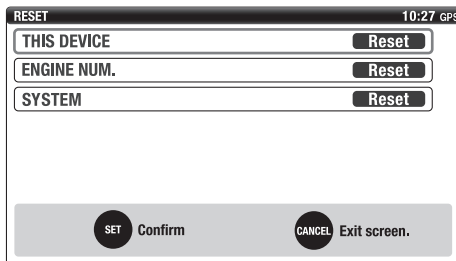


2. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the item. Set using the [SET] button.

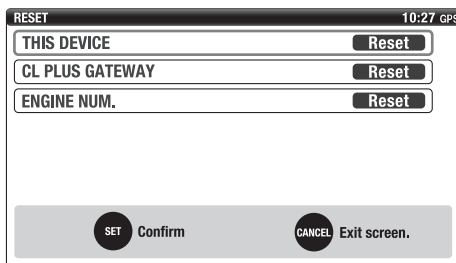
TIP:

- THIS DEVICE: This meter will be initialized and restarted.
- ENGINE NUM.: The number of outboard motors will be initialized. However, the tank settings (Tank Set) will not be initialized.
- SYSTEM (when mechanical remote control is connected): Identification numbers stored in each engine will be initialized.
- CL PLUS GATEWAY (when Digital Electronic Control is connected): Connected Command Link Plus gateway will be initialized.

When mechanical remote control is connected



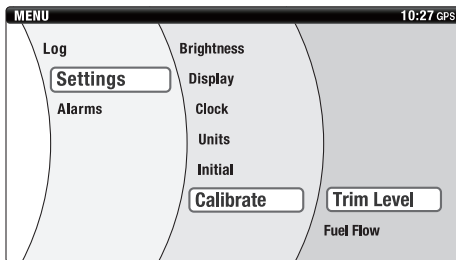
When Digital Electronic Control is connected



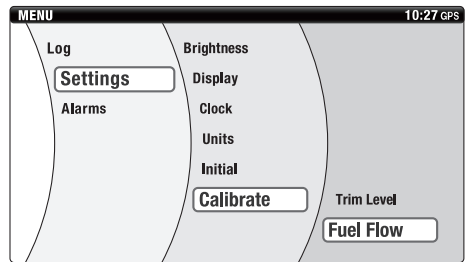
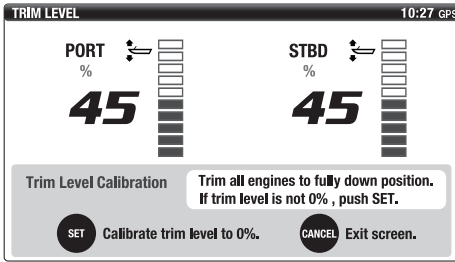
■ Adjusting the trim level to zero (Trim level)

Fully trim the outboard motor down, and then adjust the trim level to zero.

For details on how to adjust the trim level, see “Adjusting the trim level to zero” (page 10).



MENU screen



■ Calibration of fuel consumption (Fuel Flow)

In the “Fuel Flow” menu, it is possible to calibrate the difference between the fuel consumption display and the actual fuel consumption.

TIP:

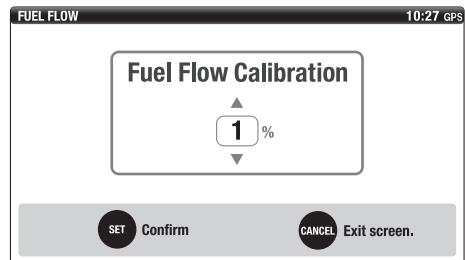
- Measurement errors may occur in the fuel flow reading depending on the operating conditions or environmental conditions of the engine.
- When changing the correction value for fuel flow, displayed values for total fuel flow (FLOW), total fuel consumption (USED), and fuel economy (ECON) will be calibrated.

1. Operate the outboard motor with the fuel tank filled with fuel.
2. After operation, refill the fuel tank. Compare the amount of fuel dispensed into the fuel tank with the consumed fuel amount shown on the display (USED).
3. Use the directional keypad and the [SET] button to select “Fuel Flow” in the “MENU” screen.

4. Use the [▲▼] (Up/Down) buttons on the directional keypad to select the difference in fuel amount between the actual value and the displayed value. Set using the [SET] button.

TIP:

The displayed fuel flow value can be calibrated within the range of -7 to +7 percent.

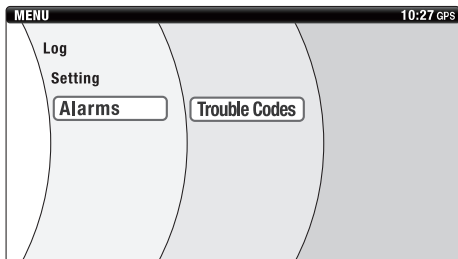


■ Trouble Codes

- In the “Trouble Codes” menu, it is possible to check the currently active trouble codes.
- If any trouble code is detected, consult a Yamaha dealer.

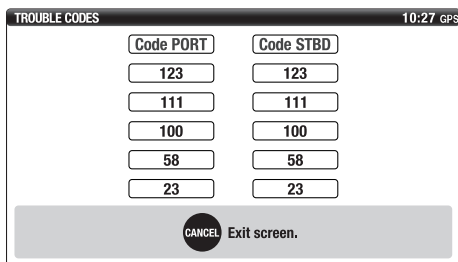
Please mention the trouble code when you contact a Yamaha dealer.

1. Use the directional keypad and the [SET] button to select “Trouble Codes” in the “MENU” screen.



TIP:

Up to 5 trouble codes are displayed for each engine.



Appendix

Requirements for installation

The meter may not operate correctly under the following conditions:

- When installed near a source of noise (generator, radio, antenna wire, etc.).
Keep the meter away from noise sources.
- When the ambient temperature is high.
Avoid exposure to high temperatures.
- When the connected external device is not compatible.
Use a device that conforms to the requirements (i.e., NMEA0183-compatible GPS).
- If the gateway hub is not connected.
Use a gateway hub to connect external devices such as NMEA2000 compatible GPS, fish finder, etc.

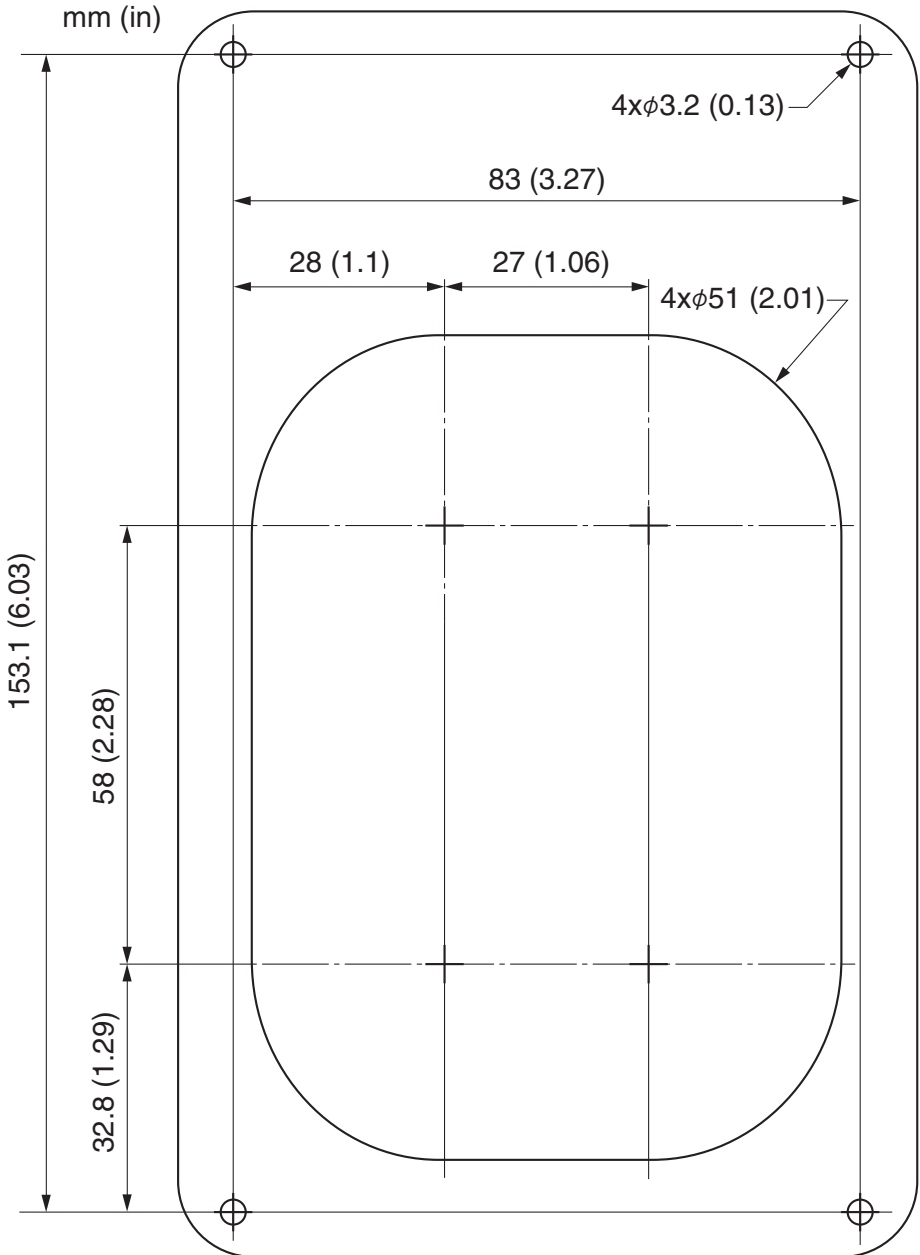
Proper care of the instrument

If the surface of the instrument is dirty, wipe it clean with a soft, lint-free cloth.

NOTICE

- **Do not use high-pressure washers or steam-jet cleaners. Water may enter the instrument and cause the instrument to malfunction.**
 - **Avoid using chemical cleaners (containing alkalinity, acidity, or neutrality), wax containing an abrasive compound, oil, solvents, or any other chemicals. Otherwise, the surface of the instrument could be damaged.**
-

Template (actual size)





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