



Command Link Plus Multifunction Color Gauge

OWNER'S MANUAL

 ${\rm I}{\rm L}$ Read this manual carefully before using the Command Link Plus Multifunction Color Gauge.



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Read this manual carefully before using the Command Link Plus Multifunction Color Gauge. Keep this manual onboard in a waterproof bag when boating. This manual should stay with the Command Link Plus Multifunction Color Gauge if it is sold.

To the owner

Thank you for selecting the Command Link Plus Multifunction Color Gauge (hereinafter called the Multi-Display). 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 question about the operation of the Multi-Display, please consult a Yamaha dealer.

In this Owner's 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 your machine and this manual.

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Safety information

The Multi-Display will notify the operator when engine abnormalities occur by displaying a pop-up window and alert icons. 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 priority is displayed first. Press the "SET" button to display pop-up windows in order of priority.

There are 3 types of pop-up windows, "Alert Notifications," "Maintenance Notifications," and "Other Notifications," each displayed with its own color.

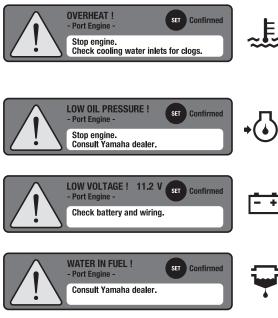
Alert Notifications: Red

Maintenance Notifications: Yellow

Other Notifications: Sky blue

Alert Notifications

Follow the following instructions for responding to each specific alert. For further information, see page 11.



Overheat alert

Displayed when the engine temperature rises too high. Stop the engine and check the cooling water inlet.



Low oil pressure alert Displayed when the oil pressure drops too low. Stop the engine and consult a Yamaha dealer.

| - | Ŧ | |
|---|---|--|
| | | |

Low battery voltage alert Displayed when the battery voltage drops too low. Check the battery and battery connections.

Water in fuel alert Displayed when water has accumulated in the water separator (fuel filter). Consult a Yamaha dealer.

Displayed when the engine mal-

functions. Consult a Yamaha

Engine trouble alert

Displayed when scheduled maintenance is

Carry out the maintenance and reset the

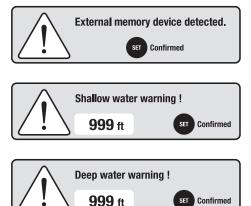


Maintenance Notifications





Other Notifications



Displayed when an external memory (USB memory) is connected.

Displayed when water depth falls below a preset threshold. For further information, see page 6.

Displayed when water depth exceeds a preset threshold. For further information, see page 6.

maintenance schedule.
You can also specify individual maintenance intervals. For further information,

dealer.

overdue.

see page 20.

List of abbreviations

The following are abbreviations displayed on this meter or used in this manual.

| Abbreviation | Description |
|--------------|-----------------------------------------|
| ABYC | American Boat and Yacht Council |
| AVAL | Available fuel |
| CL | Command Link |
| C PORT | Center Port side |
| C STBD | Center Starboard side |
| ECO, ECON | Fuel Economy |
| Eng | Engine |
| EUR | Europe |
| Ex. | Exhaust |
| F | Forward |
| FW | Fresh Water tank |
| GNRTR, GT | Generator fuel tank |
| GPS | Global Positioning System |
| INT | Intake |
| LAN | Local Area Network |
| Mfg./Dlr. | Manufacturer/Dealer |
| Ν | Neutral |
| NMEA | National Marine Electronics Association |
| No. | Number |
| Num. | Number |
| OPT | Optional |
| R | Reverse |
| R/C | Remote Control |
| STATS | Status |
| STD | Standard |
| SYNC | Synchronization |
| Temp | Temperature |
| TFT | Thin Film Transistor |
| USB | Universal Serial Bus |
| WASTE, WS | Waste Water tank |

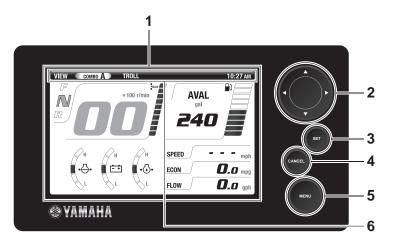
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Specifications

| Field | Specification |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power source | Rated voltage: 12 V Operating voltage range: 8–16 V |
| Communications specifica- tion | Information system LAN interface: The Multi-Display conforms to J1939-based Yamaha Net- work specifications. GPS Interface: The Multi-Display conforms to NMEA0183. |
| Other interfaces | Fuel sensor interface x 4 USB interface (Ver.1.1, 2.0) x 1 |
| Display | 5-inch color TFT |

Names and functions of parts



Name

Explanation of function

- 1 Display
- 2 Directional keypad
- Displays engine information, boat/environment information, setting menus, and so on.
- "▲▼" (Up/Down) buttons
 - Switches main screen
 - · Moves cursor (selects) on the menu screen
 - · Adjusts engine speed during trolling
 - "◀▶" (Left/Right) buttons
 - Switches main screen
 - · Moves cursor (selects) on the menu screen
- 3 "SET" button
- Set
- · Moves the menu screen cursor to the right
- · When on the main screen, moves to the "BRIGHTNESS" screen
- 4 "CANCEL" button C
 - Cancel
 - 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 trolling mode
 - When on the main screen, moves to the "TRIP" screen
- 5 "MENU" button
- · Moves from any screen to the top menu screen
- 6 Status bar Displays the time and name of the main screen selected. Time will not be displayed if time information is not received from the network.

Initialization

The initialization screen is not normally displayed, except during installation.

TIP:

If it does appear, consult a Yamaha dealer.

Configuring the number of outboard motors

| Engine Num. | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| NITUS SETING Engine Num. 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 | |
| VEW COMP A FIOL FOR TOU FINE AVAL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL FALL | |

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👁 YAMAHA

ECON

FLOW

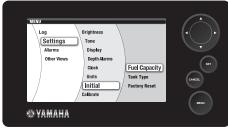
1. Turn the engine switch to "ON." The initialization screen is displayed.

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

| 1: Single-engine type |
|---------------------------------------|
| 2: Twin-engine type |
| 3: Triple-engine type |
| 4P: Quadruple-engine type (PORT side) |
| 4S: Quadruple-engine type (STBD side) |

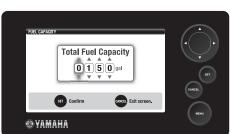
- 3. Set using the "SET" button.
- 4. The main screen is displayed.

Configuring fuel tank parameters



1. Use the directional keypad and the "SET" button to display the "Fuel Capacity" in the menu screen.

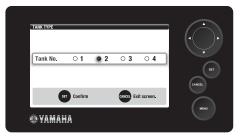
- 2. Use the directional keypad to configure the total fuel capacity on your boat.
- 3. Set using the "SET" button.



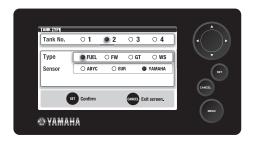
Configuring the tank sensors

| Log Settings Alarma Other Views | Brightness Tone Display Depth Alarms Cibick Units Linitial Calibrate | Fuel Capacity Tank Type FactoryReset | |
|------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------|--|
|------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------|--|

 Use the directional keypad and the "SET" button to display the "Tank Type" in the menu screen.



- Use the "◀▶" (Left/Right) buttons on the directional keypad to select the "Tank No."
- 3. Set using the "SET" button.



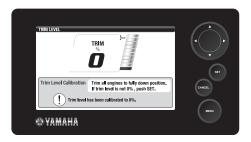
Initializing trim angle

MENU Log Brightness Settings Tone Alarn Display Other View Depth Alarm Cinck Units nitia Trim Level Calibrate Evol Do 👁 YAMAHA

- 4. Use the directional keypad to select the sensor from the "Sensor" list.
- 5. Set using the "SET" button.

- 1. Fully trim the outboard motor down.
- Use the directional keypad and the "SET" button to display the "Trim Level" in the menu screen.

- TRUM LEVEL TRUM So So Trim Level Calibration Trim all engines to fully down position It trim level to fully down position It trim level to fully down position Calibrator trim level to 0% WWT Exit screen. WYT Exit screen. WYT Exit screen.
- 3. Check that the value displayed on the screen shows "0 %."

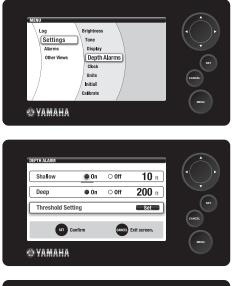


4. Use the "SET" button to reset the value if any value other than "0 %" is displayed.

Configuring the depth alarm

NOTICE

Make sure to configure water depth before turning on the depth alarm.



1. Use the directional keypad and the "SET" button to display the "Depth Alarms" in the menu screen.

 Use the directional keypad and the "SET" button to select "Threshold Setting."



- 3. Use the directional keypad to configure the water depth.
- 4. Set using the "SET" button.

NOTICE

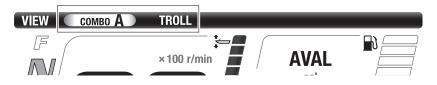
Make sure to press the "SET" button to complete the setting.

Meter display

Main screens

The layouts of main screen differ depending on the number of outboard motors on your boat. Display can be switched between digital and analog displays.

Single-engine type



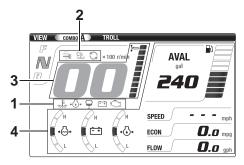
Twin-, Triple-, Quadruple-engine types



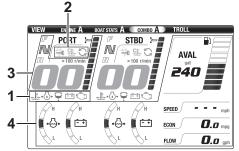
| Number of outboard motors | Main screen | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Single-engine type | COMBO/TROLL | |
| Twin-, Triple-, Quadruple- engine types | COMBO/ENGINE/BOAT STATS/TROLL | |
| ENGINE: Display BOAT STATS: Display | Displays engine information and boat/environment information. Displays engine information. Displays boat/environment information. Adjusts the trolling engine speed. For further information, see page 25. | |

■ СОМВО

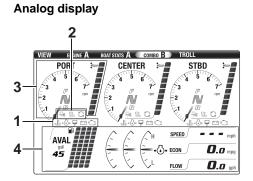
Single-engine type



Twin-, Quadruple-engine type



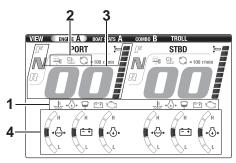
STBD \$ A <u>C</u>E S. 3 1 SPE AVAL 4 **.**Д. ECON **0.0** mpg 45 **O.o** gpl FLOW



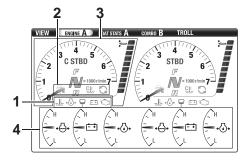
- 1: Alert display area
- 2: Condition display area
- 3: Basic display area
- 4: Specific selection area

ENGINE

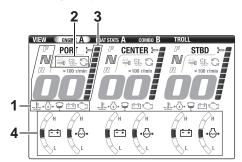
Twin-, Quadruple-engine types



Analog display



- 1: Alert display area
- 2: Condition display area
- 3: Basic display area
- 4: Specific selection area

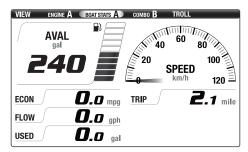


BOAT STATS

Digital display

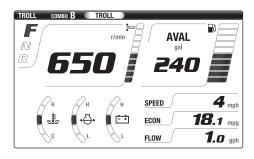
| VIEW | engine A | BOAT STATS A | сомво В | TROLL |
|------|-----------------|----------------|-------------|-----------------|
| | | | | SPEED mph |
| | 45 | | | |
| ECON | J | D.o mpg | <u>trip</u> | D.0 mile |
| FLOW | ſ | 0.0 gph | | |
| USED | J | 0.0 gal | | |

Analog display



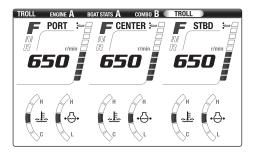
■ TROLL

Single-engine type



Twin-, Quadruple-engine types





Alert display

Red-colored alert indicators will be displayed in the alert display area for "Overheat alert," "Low oil pressure alert," "Low battery voltage alert," "Water in fuel alert," and "Engine trouble alert."



Overheat alert

NOTICE

Do not operate the outboard motor when the overheat alert is displayed. Otherwise, severe engine damage could result.

Blinks when the engine temperature rises too high. If the overheat alert blinks, stop the engine and check that the cooling water inlet on the lower case is not blocked. Consult your Yamaha dealer if the problem cannot be located and corrected.



Low oil pressure alert

NOTICE

Do not operate the outboard motor when the low oil pressure alert is displayed. Otherwise, severe engine damage could result.

Blinks when the oil pressure drops too low.

Stop the engine and check the engine oil level. If the oil level is below the specified level, add engine oil up to the proper level. For further information, see the Owner's Manual of the outboard motor.

Consult your Yamaha dealer if the alert continues to blink even though the oil level is at the proper level.



Low battery voltage alert

WARNING

Do not stop the engine when the low battery voltage alert is displayed. Otherwise, the engine may not restart.

Blinks when the battery voltage drops too low. Take the engine to a Yamaha dealer and have it checked immediately.



Water in fuel alert

NOTICE

Water in fuel can cause engine malfunction.

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 further information, see the Owner's Manual of the outboard motor.



Engine trouble alert

NOTICE

Engine is not controlled properly. Consult a Yamaha dealer.

Blinks when the engine malfunctions.

Take the engine to a Yamaha dealer and have it checked immediately.

Condition display

Orange signals are displayed in the condition display area for "Engine warming up," "Engine synchronization controlling," and "Yamaha Security System Y-COP is locked."



Displayed when the Yamaha Security System Y-COP is locked. (Not displayed when your engine is not equipped with the Yamaha Security System Y-COP.)



Displayed when the engine is warming up. Goes off when engine warm-up is finished.

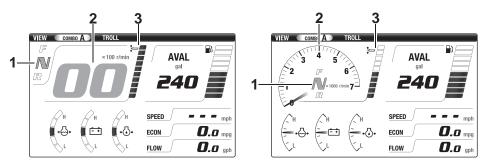


Displayed when engine is under synchronization controlling. Goes off when synchronization controlling is deactivated. (Not displayed for single- and quadruple-engine types.)

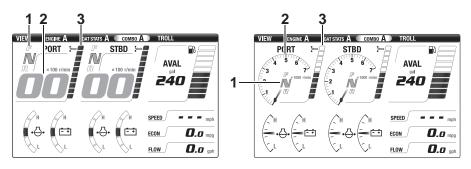
Basic display

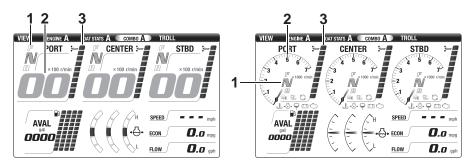
"Shift position," "Tachometer," and "Trim angle" are displayed in the basic display area.

Single-engine type



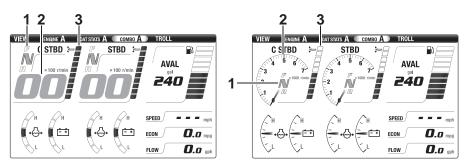
Twin-engine type





- 1: Shift position area
- 2: Tachometer area
- 3: Trim angle area

Quadruple-engine type

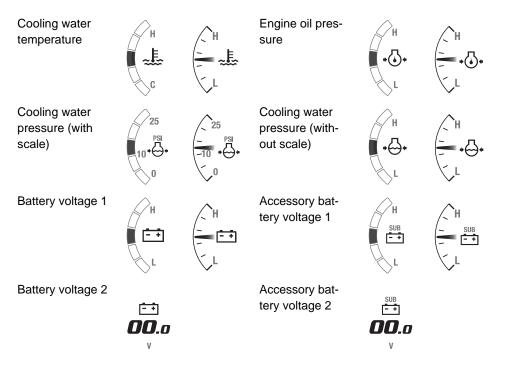


- 1: Shift position area
- 2: Tachometer area
- 3: Trim angle area

Specific selection

You can select the following meter displays for display in the specific selection area. You can combine the displayed meters and register up to 4 different types of settings.

Engine information



Boat/Environmental information





Meter display

| Fuel economy | Sailing distance |
|------------------------|--------------------------------|
| ECON D.O mpg | TRIP D.O mile |
| Fuel consumption | Total fuel flow |
| USED D.O gal | FLOW D.0 gph |
| PORT fuel flow | STBD fuel flow |
| P FLOW D.O gph | S FLOW D.O gph |
| CENTER fuel flow | C PORT fuel flow |
| C FLOW D.O gph | CP FLOW D.0 gph |
| C STBD fuel flow | PORT hour meter |
| CS FLOW D.O gph | P TRIP D.O h |
| STBD hour meter | CENTER hour meter |
| S TRIP | C TRIP D.O h |
| C PORT hour meter | C STBD hour meter |
| CP TRIP | CS TRIP D.O h |
| Water Depth | Water temperature |
| DEPTH OCO ft | темр О.О _° г |
| Available fuel | |
| AVAL DD gal | |

Meter operation

You can switch main screens to suit your preferences. Adjust the trolling engine speed from the main screen.

Switching the meter display

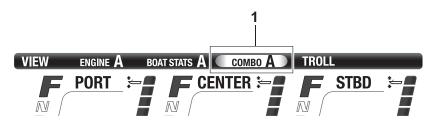
Switching the main screen

Press the "****" (Left/Right) buttons on the directional keypad to switch the main screen.

Single-engine type



Twin-, Triple-, Quadruple-engine types



1: The main screen currently displayed.

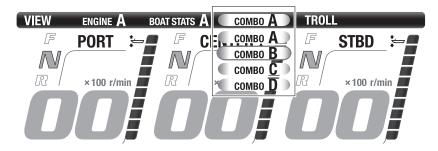
Switching the registered screens

Press the " \blacktriangle " (Up/Down) buttons on the directional keypad to select a display from 4 screen types (A, B, C, D).

Single-engine type



Twin-, Triple-, Quadruple-engine types



Customizing the registered screen

Use the menu screen to customize the specific selection area. For further information, see page 21.

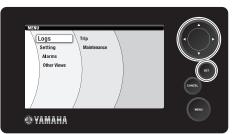
Menu screen

Operating the menu screen

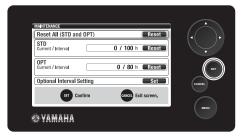
You can configure and reset the settings on the menu screen. You can also check information recorded on the outboard motor.



| ۱. | Press the "MENU" button. |
|----|-------------------------------|
| | The menu screen is displayed. |



 Use the directional keypad buttons and the "SET" button to display the desired menu.



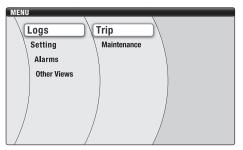
 Use the directional keypad and the "SET" button to set the applicable fields.

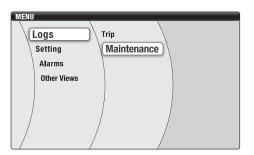


 Press the "CANCEL" button to return to the previous menu.
Press the "CANCEL" button one more time to return to the main screen.
Pressing the "MENU" button will also return you to the main screen.

Menu items and functions

Logs





Trip

- Reset fuel consumption
- Reset sailing distance
- · Reset designated driving time

Maintenance

- Reset time elapsed since previous maintenance (reset time)
- Setting maintenance intervals

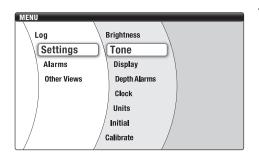
Settings

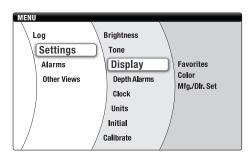
| MENU | |
|-------------|--------------|
| Log | Brightness |
| Settings | Tone |
| Alarms | Display |
| Other Views | Depth Alarms |
| | Clock |
| | Units |
| / | / Initial / |
| | Calibrate |

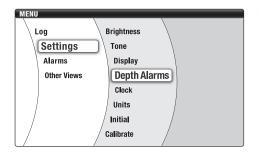
Brightness

- Turning on and off the backlight, and adjusting brightness
- Changing the Multi-Display settings individually/in a batch
- · Day-night screen change
- Time settings for automatic day-night screen change

(Day screen is always displayed even when the automatic day-night screen change is on, if time information is not received.)







Tone

- Adjusting button operation sounds
- Changing the Multi-Display settings individually/in a batch

Display

Favorites

- Setting display fields for ENGINE, BOAT STATS and COMBO screens
- Switching between digital and analog displays (You can only switch some displays)

Color

Setting backgrounds and text display colors

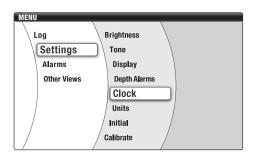
Mfg./Dlr. Set

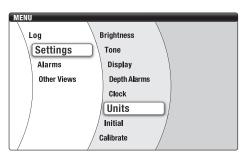
- Input and output of Multi-Display setting information
- Reading/deleting designated images for startup screen

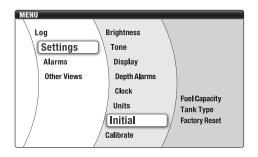
Depth Alarms

- Water depth alarm On/Off settings
- Water depth alarm threshold setting

Menu screen







Clock

Time offset setting

Units

· Changing display units

Initial

Fuel Capacity

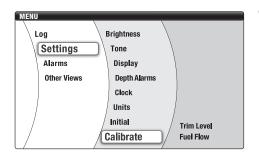
• Setting the total volume of the fuel tanks connected to the Multi-Display

Tank Type

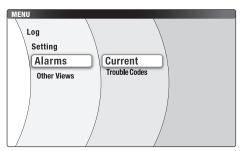
- Setting types for tanks connected to the Multi-Display (Fuel, fresh water, generator fuel, and sewage)
- Setting sensor type (ABYC/EUR/ YAMAHA)

Factory Reset

- Initializing the Multi-Display
- Initializing the connected Command Link Plus Gateway



Alarms



Calibrate

Trim Level

· Zero-setting the trim angle

Fuel Flow

• Adjusting the fuel consumption figure

Current

• Displays currently occurring alerts. For further information, see pages 11 and 12.

| MENU | | |
|-------------|-------------|--------------|
| Log | | \backslash |
| Setting | | |
| Alarms | Current | |
| Other Views | Trouble Cod | es |
| | | |
| | | |
| | | |
| | | |

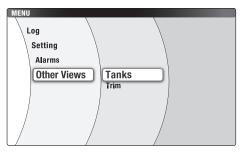
Trouble Codes

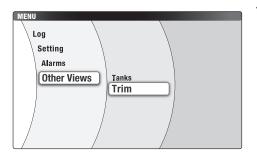
• Displays the trouble code and name of the alert. (Up to 5 displayed for each engine)

TIP:

Please mention the trouble code when you contact a Yamaha dealer. For further information, see page 27.

Other Views





Tanks

- Can display the volume of any tanks.
- Each tank type is displayed in a predefined color.
 Fuel tanks: Navy blue
 Fresh water tanks: Blue
 Sewage tank: Orange
 Generator fuel tank: Green

Trim

• Displays trim angle as a percentage.

Adjusting trolling engine speed

Adjust the trolling engine speed using "TROLL" on the main screen. You can adjust designated trolling speed in units of 50 r/min. The trolling engine speed is synchronized for all engines in a multi-engine configuration. You can switch to trolling mode when all the following conditions are satisfied:

Conditions for changing to trolling mode

• When the engine is running.

TROLL СОМВО В

🕲 YAMAHA

M

- When the throttle lever is in the fully closed position.
- When the gear shift is in the N position.
- When "TROLL" is selected on the main screen.



AVAL

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Exit screen

 Select "TROLL" on the main screen. Press the "SET" button to switch to trolling mode. "VIEW" on the status bar will switch to "TROLL."



 Set the gear shift in the F or R position, and then use the "▲▼" (Up/Down) buttons of the directional keypad to adjust the designated trolling engine speed. (The parameters within which the engine speed can be adjusted depend on the outboard motor.)

Adjusting trolling engine speed



 Set the gear shift in the N position, and then press the "CANCEL" button to cancel the trolling mode.
"TROLL" on the status bar will switch to "VIEW."

TIP:

- 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. However, if the throttle is open, pressing "CANCEL" button will not cancel the trolling mode.
- Trolling mode will be automatically canceled if the trolling speed exceeds a predetemined speed for each engine.

Trouble codes

| Trouble code | Item | Cause |
|-----------------|----------------------------|-------------------------------------------|
| 13 | Pulser Coil | Pulser coil malfunction |
| 15 | Temp Sensor | Water temperature sensor malfunction |
| | | (Thermo sensor malfunction) |
| 19 | Battery Voltage | Charging system malfunction |
| 23 | Intake Temp Sensor | Intake air temperature sensor malfunction |
| 24 | Cam Position Sensor | Cam position sensor (EXH) malfunction |
| 27 | Water in Fuel | Water in fuel |
| 29 | Intake Press Sensor | Air pressure sensor (INT) malfunction |
| 37 | Intake Air Passage | Intake air passage (Air leakage) |
| 39 | Oil Press Sensor | Engine oil pressure sensor malfunction |
| 44 | Engine Stop Lanyard | Engine shut-off switch on |
| 46 | Overheat Thermoswitch | Overheat thermoswitch malfunction |
| 71 | Cam Position Sensor (STBD | Cam position sensor (STBD INT) malfunc- |
| | INT) | tion |
| 72 | Cam Position Sensor (PORT | Cam position sensor (PORT INT) mal- |
| | INT) | function |
| 73 | Oil Control Valve (STBD) | Oil control valve (STBD) malfunction |
| 74 | Oil Control Valve (PORT) | Oil control valve (PORT) malfunction |
| 83 | Trim & Tilt Sensor | Trim/tilt sensor malfunction (PTT sensor |
| | | malfunction) |
| 85 | ION Detection Module | ION detection module malfunction |
| 86 | Immobilizer | immobilizer malfunction |
| 112-119 | Electronic Throttle System | Electronic throttle system malfunction |
| 121-123 | Electronic Throttle System | Electronic throttle system malfunction |
| 124-128 | Throttle Position Sensor | Throttle position sensor malfunction |
| 129 | Electronic Throttle System | Electronic throttle system malfunction |
| 136-139 | Electronic Throttle System | Electronic throttle system malfunction |
| 141-145 | Electronic Throttle System | Electronic throttle system malfunction |
| 146-150 | Shift Position Sensor | Shift position sensor malfunction |
| 153-155 | Shift Position Sensor | Shift position sensor malfunction |
| 156-157 | Eng-R/C Communication | Engine–Remote control communication |
| | | error |
| 160-181 | Remote Control System | Remote control system malfunction (Dig- |
| | | ital Electronic Control) |
| 183-184 | Remote Control System | Remote control system malfunction (Dig- |
| | | ital Electronic Control) |

Trouble codes

| Trouble code | Item | Cause |
|-----------------|-----------------------|---------------------------------------------------------------------|
| 186-187 | Remote Control System | Remote control system malfunction (Dig- ital Electronic Control) |

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