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MercMonitor

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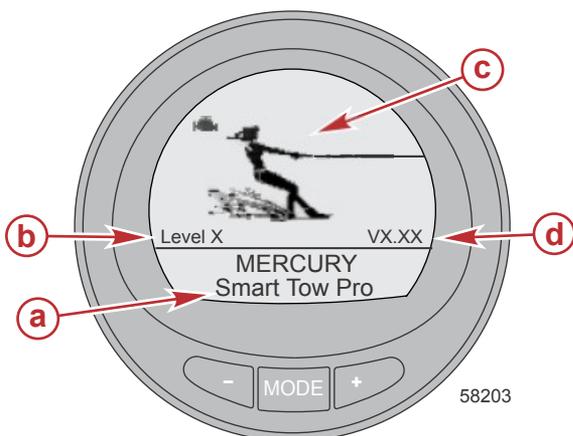
GENERAL INFORMATION

Basic Operation and Features

IMPORTANT: MercMonitor can be assimilated into many different power package configurations; from a single engine low horsepower outboard motor, to a multiengine multistation digital throttle and shift vessel. There may be some gauge features, displays, operations, and warnings that will not be applicable for your power package. Some screens can be turned on, but will not show any changes to the display. See your selling dealer for an explanation of what information your power package can display.

Power up: After the ignition is turned on, the splash screen will display the name of the gauge, the level of the gauge, the image, and the version of the software for approximately two seconds.

NOTE: The contents of the splash screen will change based on the level of gauge purchased.



Example of a level 3 gauge

- a** - Name of gauge
- b** - Level of gauge
- c** - Image
- d** - Version of software

Lights: Adjusts the brightness and contrast of the gauge.

Buttons: The "MODE" button is used for selecting information screens. The "+" and "-" buttons are used for setting engine speed for cruise control, launch control, and setting gauge calibrations. To return to the previous screen, hold the "MODE" button down for three to five seconds.

Cruise control: Sets and controls the speed of the engine for cruising.

Launch control: Controls the speed of acceleration from idle to cruise speed.

GENERAL INFORMATION

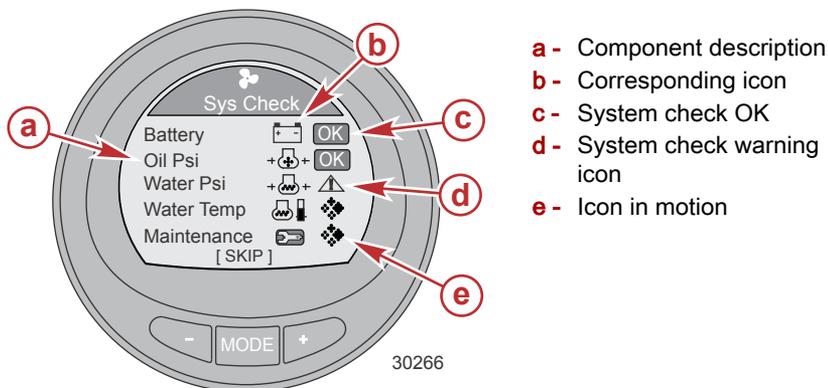
Engine Guardian System: Monitors the critical sensors on the engine for any early indication of problems. The system will respond to a problem by reducing engine speed and alerting the operator to a potentially damaging situation.

Warning system: The system sounds the warning horn and displays the warning "AL" in the right corner of the "Main Menu" screen. The alarm screen will pop up with the "AL" in the upper right side of the screen and an alarm information in the middle of the screen. For alarms with descriptive text, press the "+" button for more information.

IMPORTANT: Optional sensors such as depth, fuel, paddle wheel, and steering angle, should always be connected to the starboard engine when using SmartCraft gauges version 4.0 or later.

SYSTEM CHECK

- The system check screen will appear after the splash screen. This option must be enabled to view it. Depending on the installed power package, the system check screen will display the overall condition of the battery and a few other sensor conditions that are important for that power package. The component description will be displayed on the left side of the monitor, its corresponding icon will be off-center right, an icon in motion to the right will indicate what is being checked. When the component checks good, the icon in motion will change to "OK." If the system check identifies a problem, the icon in motion will change to a warning icon. You can bypass the system check by pressing the "MODE" button to skip the check.

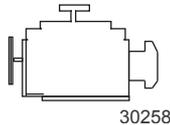


- After the system check is completed and no problem is identified, the monitor screen reverts to the last screen that was visible before the key switch was turned off. If a problem was identified, the alarm screen will be displayed. Refer to **Alarm Warnings**.

GENERAL INFORMATION

PRODUCTS WITH EMISSIONS CONTROL

After the ignition is turned on, the splash screen will display the name of the gauge, the level of the gauge, and the version of the software for approximately two seconds. In the upper left-hand corner of the display, a small engine icon will also be visible. The icon is an indicator that the power package has emissions control onboard diagnostics, also known as OBD. The icon will only be seen during the key up process unless a system fault is detected. When an OBD fault is detected, the OBD icon will be displayed in the upper left-hand corner on all system screens.



OBD icon

MercMonitor Gateway Models Description

There are four MercMonitor Gateway gauge models available. All versions of the MercMonitor will display only one engine. All versions are capable of transmitting the engine data via NMEA 2000 (N2K); however, a Data Level 3 version will transmit up to four engines of N2K data.

- MercMonitor Base Model (Data Level 1) with eight NMEA 2000 gateway in/out features
- MercMonitor RPM Smart Tow (Data Level 2) with 19 NMEA 2000 gateway in/out features
- MercMonitor Premier Kit (Data Level 3) with 23 NMEA 2000 gateway in/out features
- MercMonitor Smart Tow Pro Kit (Data Level 3) with 23 NMEA 2000 gateway in/out features includes a GPS puck in the kit for accurate speed based Smart Tow function

NOTE: Each of the above models incorporates the use of NMEA 2000 and J1939 software interface that allows or controls access to other manufacturers programs if available. Be sure to check with the manufacture for detailed information on the features they offer.

GENERAL INFORMATION

Level 1—Base Model (single engine, NMEA 2000 support selectable)	
NMEA 2000 and J1939 in/out supported	RPM
	Voltage
	Oil pressure
	Coolant temperature
	Fuel tank level percent
NMEA 2000 only in/out supported	Fluid level percent (fuel 2, oil, water, waste)
	Trim position
	Water pressure
	Check engine alarm IMPORTANT: NMEA 2000/J1939 alarm data is limited. Refer to the MercMonitor display for descriptive fault text.

GENERAL INFORMATION

Level 2—RPM Smart Tow Model (single engine, NMEA 2000 support selectable)	
NMEA 2000 and J1939 in/out supported	RPM
	Voltage
	Oil pressure
	Coolant temperature
	Fuel tank level percent
	Fuel flow
	Engine hours
	Boost pressure
	Oil temperature
NMEA 2000 only in/out supported	Fluid level percent (fuel 2, oil, water, waste)
	Trim position
	Water pressure
	Check engine alarm IMPORTANT: NMEA 2000/J1939 alarm data is limited. Refer to the MercMonitor display for descriptive fault text.
	Tabs
	GPS speed/COG/latitude, longitude (in only)
	Depth
	Seawater temperature
	Paddle wheel speed
	Pitot speed

GENERAL INFORMATION

Level 3—Smart Tow Pro Model with GPS puck (four or fewer engines, NMEA 2000 support selectable)	
NMEA 2000 and J1939 in/out supported	RPM
	Voltage
	Oil pressure
	Coolant temperature
	Fuel tank level percent
	Fuel flow
	Engine hours
	Boost pressure
	Oil temperature
NMEA 2000 in/out supported (only)	Fluid level percent (fuel 2, oil, water, waste)
	Trim position
	Water pressure
	Check engine alarm IMPORTANT: NMEA 2000/J1939 alarm data is limited. Refer to the MercMonitor display for descriptive fault text.
	Tabs
	GPS speed/COG/latitude, longitude (in only)
	Depth
	Seawater temperature
	Paddle wheel speed
	Pitot speed
	Rudder angle
	Gear pressure (Mercury Diesel)
	Gear temperature (Mercury Diesel)
	Fuel pressure
	Capacity (English or metric)

GENERAL INFORMATION

Level 3—Gateway Premier (four or fewer engines, NMEA 2000 support selectable) (includes RPM Smart Tow)	
NMEA 2000 and J1939 in/out supported	RPM
	Voltage
	Oil pressure
	Coolant temperature
	Fuel tank level percent
	Fuel flow
	Engine hours
	Boost pressure
	Oil temperature
NMEA 2000 in/out supported (only)	Fluid level percent (fuel 2, oil, water, waste)
	Trim position
	Water pressure
	Check engine alarm IMPORTANT: NMEA 2000/J1939 alarm data is limited. Refer to the MercMonitor display for descriptive fault text.
	Tabs
	GPS speed/COG/latitude, longitude (in only)
	Depth
	Seawater temperature
	Paddle wheel speed
	Pitot speed
	Rudder angle
	Gear pressure (Mercury Diesel)
	Gear temperature (Mercury Diesel)
	Fuel pressure
Capacity (English or metric)	

MercMonitor Gateway Protocol Acceptance Description

Gateway is a software interface that allows or controls access to other programs through a NMEA 2000 or J1939 protocol; a backbone for communication to share information. The software is capable of transmitting (TX) information to, and receiving (RX) information from various parameter group number (PGN) products.

GENERAL INFORMATION

Gateway Modes	
Transmit (TX)	Receive (RX)
Transmits engine data to NMEA 2000/J1939 compatible display devices.	Receives data from NMEA 2000/J1939 compatible engines.
Base and RPM Smart Tow models require one MercMonitor per engine.	Each engine requires its own MercMonitor regardless of the model (base, RPM Smart Tow, Smart Tow Pro, Gateway Premier).
Gateway Premier and Smart Tow Pro models require only one MercMonitor per vessel to transmit multiengine data to multifunction displays (MFD) through the NMEA 2000/J1939 protocol.	
The MercMonitor will display one engine only regardless of the model (base, RPM Smart Tow, Smart Tow Pro, Gateway Premier).	

Mercury Engine Data to NMEA 2000 Capable Products			
Signal	PGN Name	NMEA 2000 PGN	Mode
Rated RPM	Engine Parameter Static	127498/0x1F20A	RX/TX
Coolant Pressure	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Speed Over Water	Speed	128259/0x1F503	RX/TX
RPM	Engine Parameters Rapid Update	127488/0x1F200	RX/TX
Voltage	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Coolant Temperature	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Fuel Pressure	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Fuel Level	Fluid Level	127505/0x1F211	RX/TX
Fuel Tank Size	Fluid Level	127505/0x1F211	RX/TX
Fuel Flow	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Oil Pressure	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Oil Temperature	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX

GENERAL INFORMATION

Mercury Engine Data to NMEA 2000 Capable Products			
Signal	PGN Name	NMEA 2000 PGN	Mode
Gear Temp	Transmission Dynamic	127493/0x1F205	RX/TX
Gear Pressure	Transmission Dynamic	127493/0x1F205	RX/TX
Boost Pressure	Engine Parameters Rapid Update	127488/0x1F200	RX/TX
Trim position	Engine Parameters Rapid Update	127488/0x1F200	RX/TX
Rudder Angle	Rudder	127245/0x1F10D	RX/TX
Depth	Depth	128267/0x1F50B	RX/TX
Depth Offset	Depth	128267/0x1F50B	RX/TX
Seawater Temp	Environmental Parameters	130310/0x1FD06	RX/TX
Engine hours	Engine Parameters Rapid Dynamic	127489/0x1F201	RX/TX
Manufacturer ID	Address Claim (0 x 90 = Mercury)	060928/0xEE00	RX/TX
Alarm data	Check Engine	127489/0x1F201	RX/TX
Tabs	Small Craft Status	130576/0x1FE10	RX/TX
Course over Ground	COG and SOG Rapid Update	129026/0x9F802	RX
Speed over Ground	COG and SOG Rapid Update	129026/0x9F802	RX
GPS Position	Position Rapid Update	129025/0x1F801	RX
Battery	Battery Status	127508/0x1F214	RX/TX

GENERAL INFORMATION

Mercury Engine Data to J1939 Capable Products			
Signal	PGN Name	J1939 PGN	Mode
RPM	Electronic Engine Controller #1	61444/0xF004	TX
Voltage	Vehicle Electrical Power	65271/0xFE7F	TX
Coolant Temperature	Engine Temperature #1	65262/0xFEEE	TX
Fuel Level	Dash Display	65276/0xFEFC	TX
Fuel Consumption	Fuel Economy (Liquid)	65266/0xFE7F	TX
Fuel Flow	Fuel Economy (Liquid)	65266/0xFE7F	TX
Oil Pressure	Engine Fluid Level/Press #1	65263/0xFEEF	TX
Boost Pressure	Inlet/Exhaust Conditions	65270/0xFE7F	TX
Engine hours	Total Engine Hours	65253/0xFEE5	TX
Manufacturer ID	Address Claim (0 x 90 = Mercury)	61182/0xEEFE	TX
Alarm data (Diagnostic message supported)	Check Engine	65226/0xFECA	TX
Line-Line AC RMS Volt	Generator Set Average	65030/0xFE06	RX/TX
AC RMS Frequency	Generator Set Average	65030/0xFE06	RX/TX

Connection to a Non-SmartCraft Network

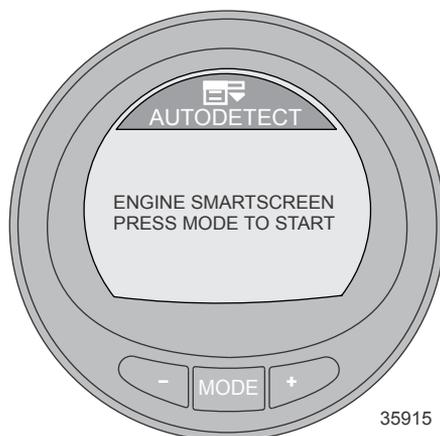
The use of the MercMonitor on a non-SmartCraft network application requires the MercMonitor gateway set to "Receive." Failure to set the gateway to "Receive" will cause numerous faults to appear that cannot be resolved. Changing the gateway to "Receive" will clear the faults. The menu path to set the gateway to "Receive" is: **"Main Menu," > "Settings," > "Gateway," > "Gateway."**

Automatic Engine Detection Feature

The SmartCraft monitor has an automatic engine detection feature. This feature automatically detects which engine type is used and configures the gauge to match that engine type.

GENERAL INFORMATION

The first power up of the gauge, or after a reset all to factory default, the gauge will display "AUTODETECT." Press the "MODE" button to start the automatic engine detection feature and the gauge will determine the engine type. This will preset the data monitoring screens to make the initial setup easier.



If the gauge shows a warning of "NO STARBOARD ENGINE" or "MULTIPLE STARBOARD ENGINES," the engine location (port and starboard) must be selected by an authorized dealer equipped with the computer diagnostic system (CDS) tool.

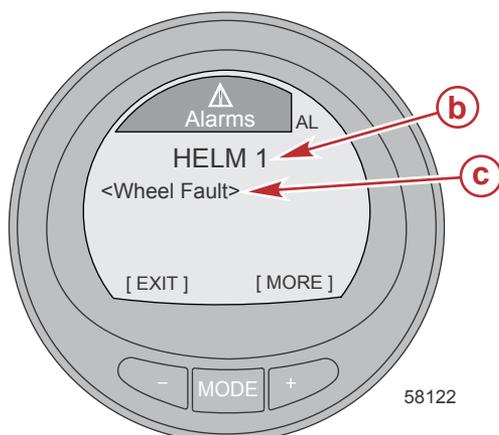
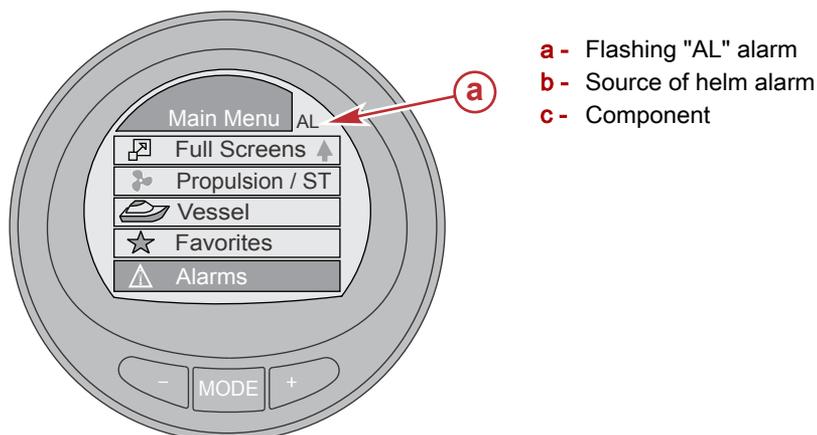
Alarm Warnings

IMPORTANT: Alarm warnings are only available on the MercMonitor screen. NMEA 2000/J1939 gateway is limited to seven alarm functions.

NOTE: Descriptive text alarm warning screens are displayed with Gen I (2007) engines and newer and universal fault codes will be displayed on all 4.5L, 6.2L, and SeaPro engines.

GENERAL INFORMATION

When a problem is detected, the "AL" alarm appears and a pop-up window with the alarm location and information will be displayed. The faulty component or warning is described in the text. Press the "+" button for more information. This screen gives a detailed description of the fault text. Press the "+" button to view the required corrective action.

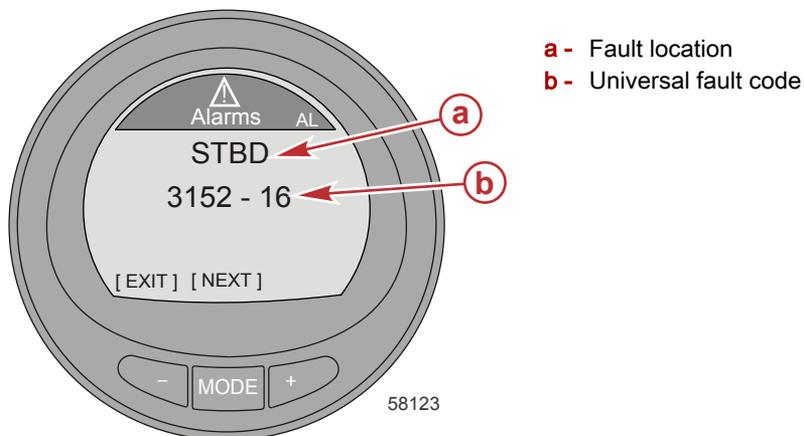


The alarm message will stay displayed until the "-" button is pressed. This action will exit the warning screen. If there are multiple alarms, press the "MODE" button to view the next warning display.

If universal fault codes are enabled, engines and helms that support universal fault codes will send a fault number instead of descriptive text. All other engines and helms will send descriptive text. When universal fault codes are disabled, all engines and helms will send descriptive text.

GENERAL INFORMATION

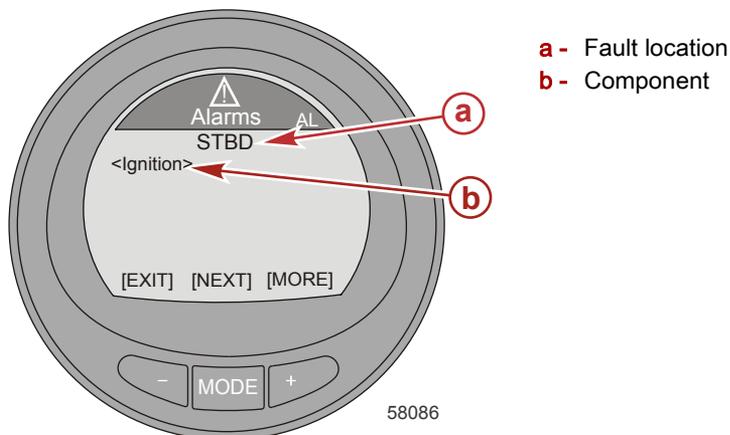
NOTE: Refer to the "Universal Fault Code" in the "Settings" menu to enable or disable this feature.



If a problem can cause immediate engine damage, the Engine Guardian System will respond to the problem by limiting engine power. Immediately reduce the throttle speed to idle and refer to the warning messages. If the "MODE" button is pressed to display a different screen, the flashing alarm signal "AL" will appear in the upper right corner to indicate there still is a problem. Refer to the appropriate service manual for further explanation of the problem and the correct action to take.

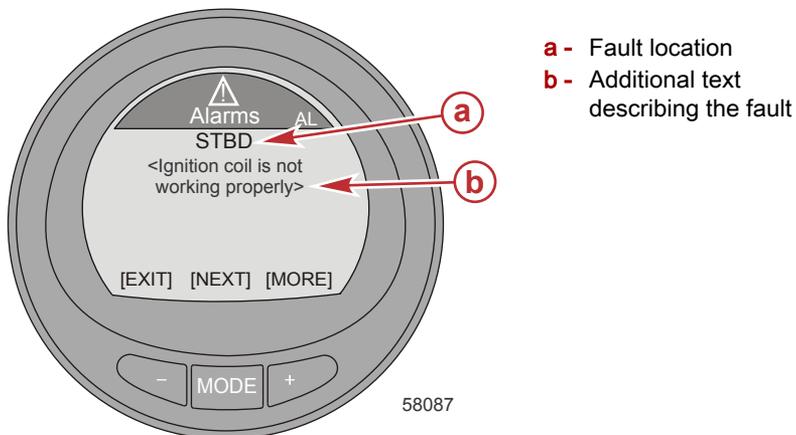
VIEWING DESCRIPTIVE TEXT

1. When a problem is detected, the "AL" alarm will flash on the display and a pop-up window displays the system where the fault is located, and what component is identified as a problem.

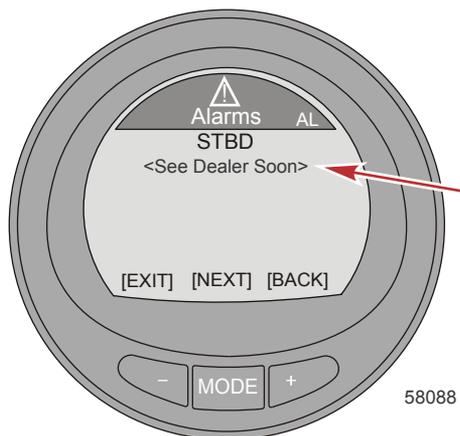


GENERAL INFORMATION

- Press the "+" button to view the descriptive warning text. The identified component expands to show additional text describing the fault.



- Press the "+" button to view the descriptive recommended actions to take.

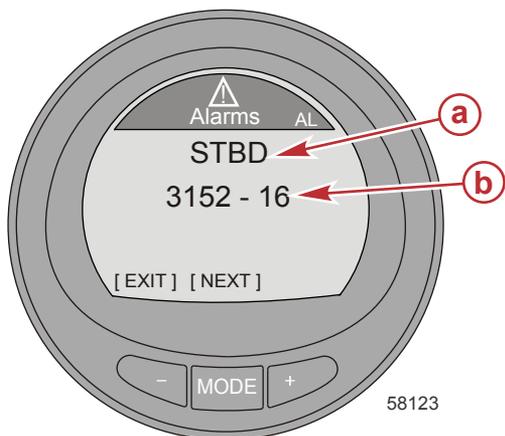


- Press the "+" button to go back to the component identification or press the "MODE" button to view the next alarm.
- Press the "-" button to exit the alarm screen.

GENERAL INFORMATION

UNIVERSAL FAULT CODES DISPLAYED

1. When universal fault codes are enabled and a problem is detected, the "AL" alarm will flash on the display and a pop-up window displays the system where the fault is located and the universal fault code.

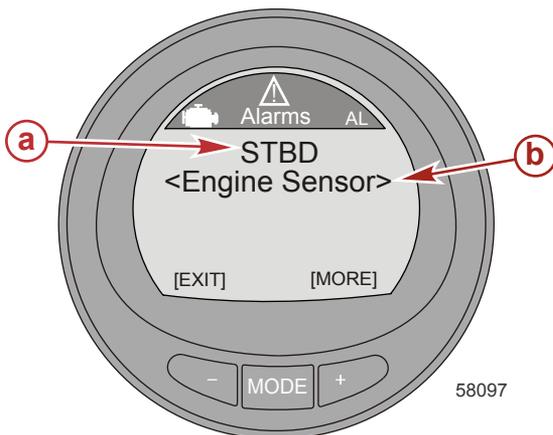


- a** - Fault location
- b** - Universal fault code

2. Press the "+" button to view the next alarm.
3. Press the "-" button to exit the alarm screen.

EMISSION CONTROL ALARM WARNINGS

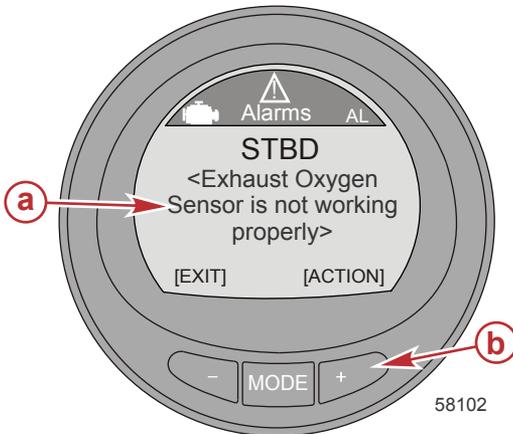
1. The screen displays the fault location and a description of the faulty component. Press the "+" button for more information.



- a** - Fault location
- b** - Component

GENERAL INFORMATION

2. A detailed description of the faulty component is explained. Press the "+" button for information on a corrective action.



- a - Detailed description of the fault component
- b - "+" button to show corrective action

NMEA 2000/J1939 GATEWAY ALARMS

- Check Engine
- Over Temperature
- Water in Fuel (WIF)
- Water Pressure
- Low Oil Pressure
- Low System Voltage
- Engine Communication Error

Identifying and Using the Screen Categories

The monitor displays engine and vessel information through various screens. These screens can be selected to be favorites which will flash on the screen for a specific amount of time. The "Settings" menu option allows the screens to be turned off or on. The "Settings" menu option also allows the calibration of the monitor to the various different sensors like the fuel, trim, tabs, and steering to name a few.

- **"Propulsion"** contains all screens related to the propulsion system; trim, engine performance, troll control, and Smart Tow.
- **"Vessel"** contains screens related to fuel use, tank levels, tabs, GPS data, steering position, and other items such as generators.
- **"Full Screens"** displays various information from the propulsion and vessel menu in large, easy to read letters. The full screen menu also displays some information as "Tri Data." There are five "Tri Data" screens.

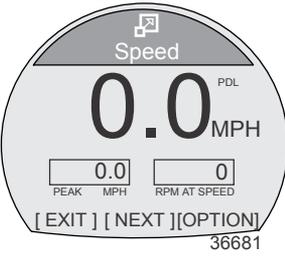
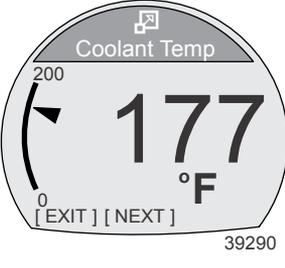
GENERAL INFORMATION

- **"Favorites"** are specific screens selected by the operator to be reviewed quickly. The favorites will remain on the screen for a specific amount of time. This time can be one second up to 30 seconds or turned "OFF" to advance manually through the screens. A total of nine screens can be selected from the "Propulsion" menu, "Vessel" menu, or "Full Screens" menu. Press and hold the "-" and "+" buttons down at the same time for three to five seconds to add the screen to the favorites menu.
- **"Alarms"** displays information on the location, identifies, and advises a corrective action to take for all warning alarms. If available, while in the "Alarms" category, press the "+" button for more detailed descriptive text about the fault. Press the "+" button again to review the recommended corrective action to take. Press the "MODE" button to review the next fault, or press the "-" button to exit the "Alarms" screen.
- **"Settings"** allows the user to turn on and off screens, select a type of measurement (knots, kilometers, miles), select a screen color, adjust the contrast and brightness of the screen, select a digital or analog clock display, adjust and correct various different sensor parameters (tanks, trim, tabs), activate a GPS interface with the gauge, give the gauge a specific name (up to 14 characters), enable universal fault codes, and reset the gauge to the factory default settings.

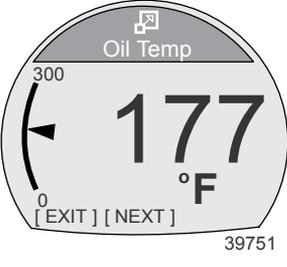
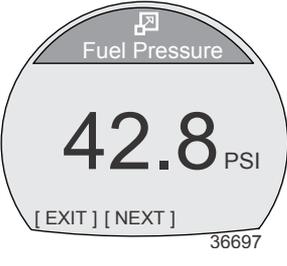
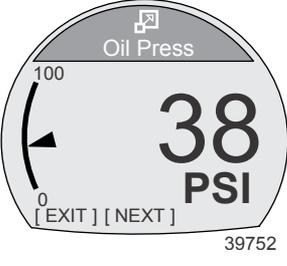
FULL SCREENS

Full Screens Features and Options

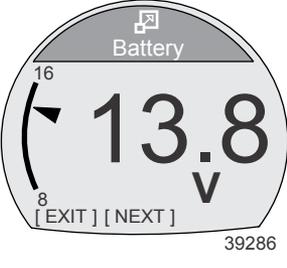
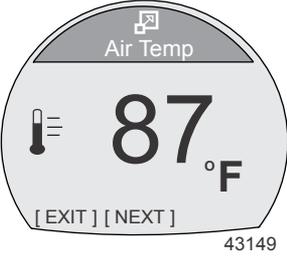
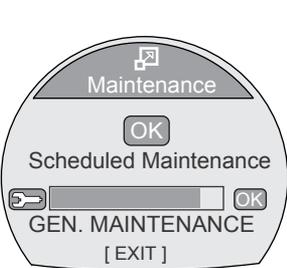
The Full Screens menu displays large icon vessel and propulsion data in addition to Tri Data screens. Several screens show a minimum and maximum reference with an arrow directing your attention to the current value displayed within the screen. The minimum and maximum reference limits are the same minimum and maximum limits that are shown on a System Link gauge. Additionally, a number of screens allow the resetting of peak RPM or speed data. The Full Screens and Tri Data screen must be turned on—Yes for these screens to be active in the Full Screens menu. The menu path to turn the Full Screens data on is: Main Menu, > Settings, > Screens, > Full Screens. The menu path to select the Tri Data information is: Main Menu, > Settings, > Screens, > Tri Data.

<p>Speed</p>	<p>Displays large numbers for the vessel speed through the available sensor, the peak speed, and the peak RPM at speed. The peak values can be reset.</p>	 <p>The Speed screen features a circular gauge with a grey top section containing a square icon and the word "Speed". The main display shows "0.0" in large digits, with "PDL" to its right and "MPH" to its right. Below the main display are two smaller boxes: the left one shows "0.0" with "PEAK MPH" below it, and the right one shows "0" with "RPM AT SPEED" below it. At the bottom of the screen are the controls "[EXIT] [NEXT] [OPTION]" and the ID number "36681".</p>
<p>Depth</p>	<p>Displays the water depth in large numbers.</p>	 <p>The Depth screen features a circular gauge with a grey top section containing a square icon and the word "Depth". The main display shows "126" in large digits, with "FT" to its right. At the bottom of the screen are the controls "[EXIT] [NEXT]" and the ID number "36685".</p>
<p>Coolant Temperature</p>	<p>Displays the engine coolant temperature in large numbers and on a bar graph.</p>	 <p>The Coolant Temp screen features a circular gauge with a grey top section containing a square icon and the words "Coolant Temp". The main display shows "177" in large digits, with "°F" to its right. To the left of the main display is a bar graph with a needle pointing to the value, and a scale from "0" at the bottom to "200" at the top. At the bottom of the screen are the controls "[EXIT] [NEXT]" and the ID number "39290".</p>

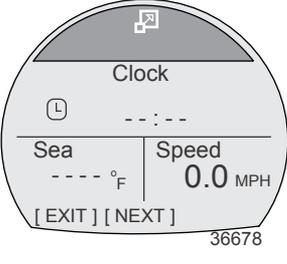
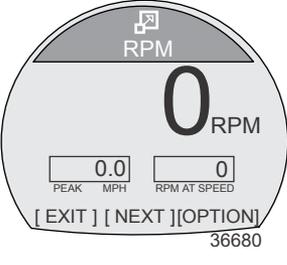
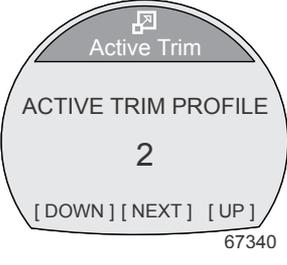
FULL SCREENS

<p>Clock</p>	<p>Displays the time in large numbers. Can be displayed as 24 hour or 12 hour.</p>	 <p>The clock display shows the time 23:15 in large black digits. Above the time is a small square icon with a clock face and the word "Clock". Below the time are the options "[EXIT]" and "[NEXT]". The number 36702 is in the bottom right corner.</p>
<p>Oil Temperature</p>	<p>Displays the engine oil temperature in large numbers and on a bar graph.</p>	 <p>The oil temperature display shows 177°F in large black digits. To the left is a semi-circular bar graph with a needle pointing to the 177 mark. The scale has 0 at the bottom and 300 at the top. Above the temperature is a small square icon with a thermometer and the text "Oil Temp". Below the temperature are the options "[EXIT]" and "[NEXT]". The number 39751 is in the bottom right corner.</p>
<p>Fuel Pressure</p>	<p>Displays the engine fuel pressure in large numbers.</p>	 <p>The fuel pressure display shows 42.8 PSI in large black digits. Above the pressure is a small square icon with a fuel pump and the text "Fuel Pressure". Below the pressure are the options "[EXIT]" and "[NEXT]". The number 36697 is in the bottom right corner.</p>
<p>Oil Pressure</p>	<p>Displays the engine oil pressure in large numbers and on a bar graph.</p>	 <p>The oil pressure display shows 38 PSI in large black digits. To the left is a semi-circular bar graph with a needle pointing to the 38 mark. The scale has 0 at the bottom and 100 at the top. Above the pressure is a small square icon with a pressure gauge and the text "Oil Press". Below the pressure are the options "[EXIT]" and "[NEXT]". The number 39752 is in the bottom right corner.</p>

FULL SCREENS

<p>Water Pressure</p>	<p>Displays the engine water pressure in large numbers and on a bar graph.</p>	 <p>The display shows a semi-circular gauge with a needle pointing to 15.2. The scale ranges from 0 to 30. The text 'Water Press' is at the top, '15.2 PSI' is in the center, and '[EXIT] [NEXT]' and '40531' are at the bottom.</p>
<p>Battery</p>	<p>Displays the battery voltage level in large numbers and on a bar graph.</p>	 <p>The display shows a semi-circular gauge with a needle pointing to 13.8. The scale ranges from 8 to 16. The text 'Battery' is at the top, '13.8 V' is in the center, and '[EXIT] [NEXT]' and '39286' are at the bottom.</p>
<p>Air Temperature</p>	<p>Displays the air temperature in large numbers.</p>	 <p>The display shows a thermometer icon on the left and the number '87' with '°F' to its right. The text 'Air Temp' is at the top, and '[EXIT] [NEXT]' and '43149' are at the bottom.</p>
<p>Maintenance</p>	<p>Estimates the amount of run time the engine accumulated since the last scheduled maintenance. Normal scheduled maintenance for the engine is 100 hours. The maintenance screen shows a bar graph approximating the amount of time remaining before a scheduled maintenance is required. The maintenance screen must be turned on for this screen to be displayed.</p>	 <p>The display shows a semi-circular gauge with a needle pointing to a bar graph. The text 'Maintenance' is at the top, 'OK' is in a button, 'Scheduled Maintenance' is below it, and 'GEN. MAINTENANCE' is at the bottom. There are also '[EXIT] [NEXT]' and '50377' at the bottom.</p>

FULL SCREENS

<p>Tri Data</p>	<p>Displays vessel and propulsion data selected and arranged by the user. Up to five tri data screens can be customized by the user.</p>	 <p>The screenshot shows a circular interface with a grey header containing a square icon and the word "Clock". Below the header, there is a large "L" icon and a time display "-- : --". A horizontal line separates the top section from the bottom section. The bottom section is split into two columns: "Sea" with a temperature display "-- ° F" and "Speed" with a large "0.0 MPH" display. At the bottom, there are two buttons: "[EXIT]" and "[NEXT]". The number "36678" is printed in the bottom right corner.</p>
<p>RPM</p>	<p>Displays large numbers for the engine RPM, shows the peak speed, and the peak RPM at speed. The peak values can be reset.</p>	 <p>The screenshot shows a circular interface with a grey header containing a square icon and the word "RPM". Below the header is a large "0" followed by "RPM". Below this, there are two small rectangular displays: the left one shows "0.0" with "PEAK MPH" below it, and the right one shows "0" with "RPM AT SPEED" below it. At the bottom, there are three buttons: "[EXIT]", "[NEXT]", and "[OPTION]". The number "36680" is printed in the bottom right corner.</p>
<p>Active Trim</p>	<p>Displays the Active Trim minor profile, and allows for the adjustment up or down of the profile characteristics. The major profile must be selected in the Active Trim screen in the Settings menu.</p>	 <p>The screenshot shows a circular interface with a grey header containing a square icon and the words "Active Trim". Below the header, the text "ACTIVE TRIM PROFILE" is displayed, followed by a large "2". At the bottom, there are three buttons: "[DOWN]", "[NEXT]", and "[UP]". The number "67340" is printed in the bottom right corner.</p>
<p>Sport Exhaust</p>	<p>Displays the status of the Sport Exhaust sound control for engines equipped with this option.</p>	 <p>The screenshot shows a circular interface with a grey header containing a square icon and the words "Sport Exhaust". Below the header, the text "SPORT EXHAUST" is displayed, followed by a large "ON". At the bottom, there are three buttons: "[DOWN]", "[NEXT]", and "[UP]". The number "67345" is printed in the bottom right corner.</p>

RESETTING PEAK VALUES

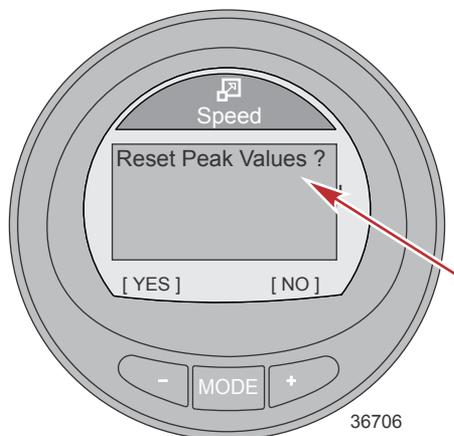
The "RPM" and "Speed" full screens will record and store the vessel peak speed and the RPM at that peak speed. These peak values can be reset to capture new RPM and speed data.

FULL SCREENS

1. While the "RPM" or "Speed" full screen is visible, press the "+" button to open the reset option.



2. A pop-up window will appear asking if the peak values should be reset ("Reset Peak Values?").
3. Press the "+" button if you do not want to reset the values "(NO)."
4. Press the "-" button if you want to reset the values "(YES)."



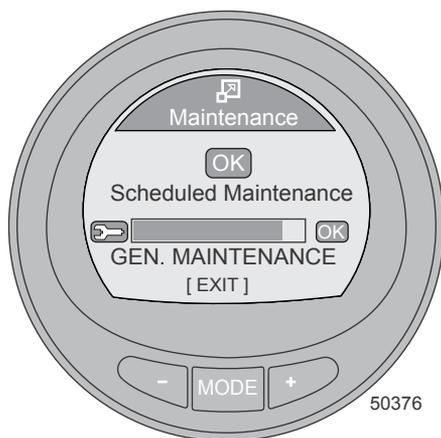
5. When the selection is "(YES)," the pop-up window will close and the new data will populate the peak values immediately.

FULL SCREENS

Maintenance Screen

Some 4-Stroke power package models can estimate the amount of time the engine has run since the last scheduled maintenance. Normal scheduled maintenance for the engine is every 100 hours. The maintenance screen shows a bar graph approximating the amount of time remaining before a scheduled maintenance is required. When the maintenance screen is reset, the bar graph will change to 100 hours before the next scheduled maintenance. The maintenance screen must be turned on for this screen to be displayed. Your owner's manual maintenance schedule should be followed regardless of what the gauge displays. To turn this feature on, refer to **Section 7: Settings—Turning the Screens On**.

1. While in the Main Menu, use the "-" or "+" button to highlight the Full Screens option. Press the MODE button to open the Full Screens option.
2. Press the MODE button to page through the screens.
3. The Maintenance screen will show a bar graph approximating the amount of time remaining before a scheduled maintenance is required. Press the MODE button to exit to the Maintenance screen.



FULL SCREENS

4. If the bar graph is not visible, the engine scheduled maintenance has passed 100 hours and the screen will change to Perform Maintenance. Press the "+" button to begin the reset procedure.

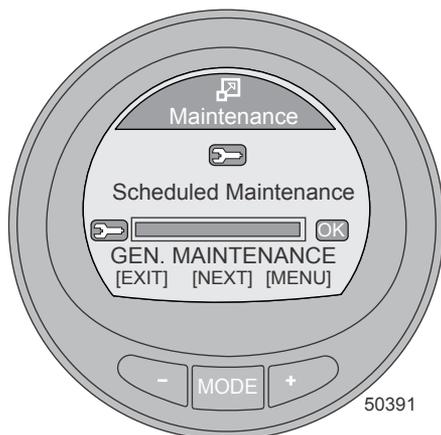


5. A window will pop up asking HAS SCHEDULED MAINTENANCE BEEN PERFORMED? Press the "+" button—NO, to return to the Maintenance screen, or press the "-" button—YES, to reset the scheduled maintenance screen.



FULL SCREENS

6. After pressing the "-" button—YES, to reset the scheduled maintenance screen, the bar graph will reset to 100 hours. Press the "-" button to exit the Maintenance window and return to the Main Menu, or press NEXT to exit the maintenance screen to the next full screen, or press MENU to repeat the scheduled maintenance reset process.

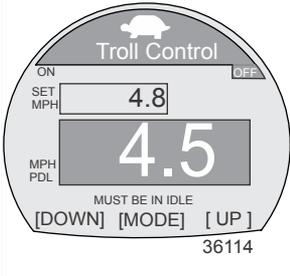
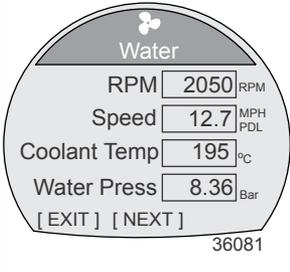
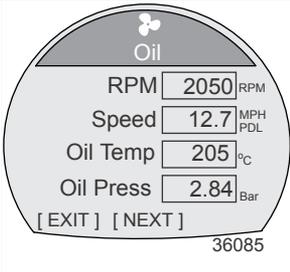
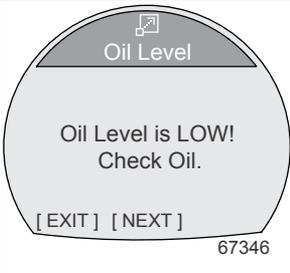


PROPULSION MENU

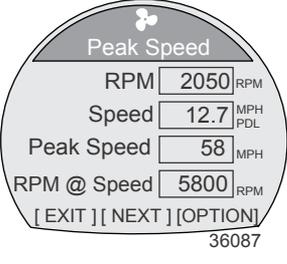
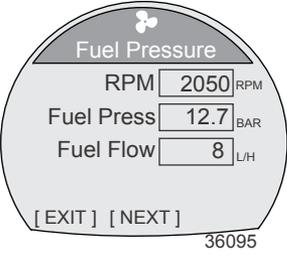
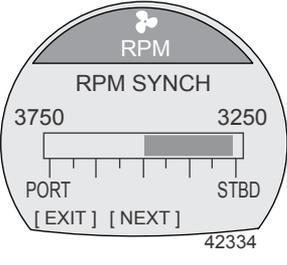
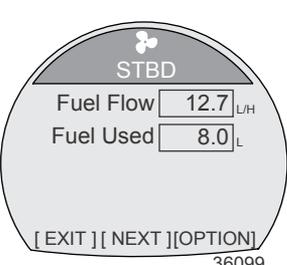
Using Propulsion Screens

The Propulsion menu screens will display information about the boat propulsion systems. Screens that are available in the Propulsion menu may vary according to the engine type.

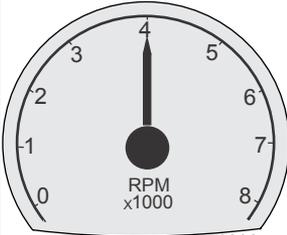
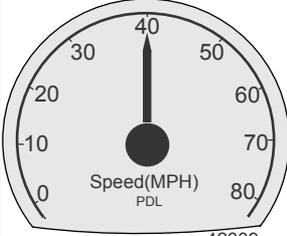
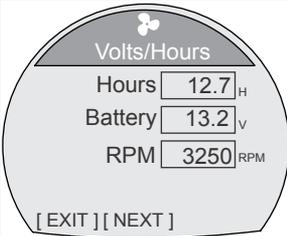
Available Propulsion Screens

<p>Troll Control</p>	<p>Displays an icon to indicate the troll control is turned on or off. It can be controlled with the vessel speed through the active sensor or with the engine RPM.</p>	
<p>Water</p>	<p>Displays the engine RPM, vessel speed through the active sensor, coolant temperature, and water pressure.</p>	
<p>Oil Information</p>	<p>Displays the engine RPM, vessel speed through the active sensor, oil temperature, and oil pressure.</p>	
<p>Oil Level</p>	<p>The Oil Level screen displays the engine oil level status as Oil Level OK or Oil Level is LOW. The engine oil level status is only displayed upon key on, before the engine is started. During operation of the engine this data screen will not actively monitor the engine oil level.</p>	

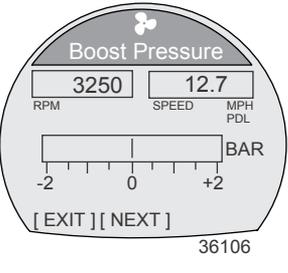
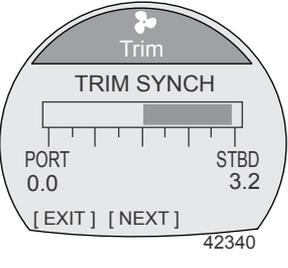
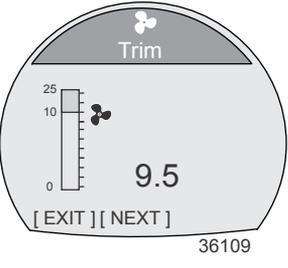
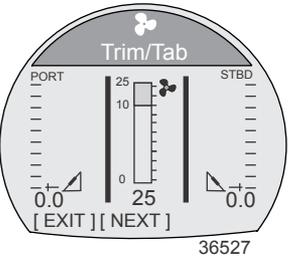
PROPULSION MENU

<p>Peak Speed</p>	<p>Displays the engine RPM, vessel speed through the active sensor, the peak vessel speed, and what the engine RPM was at that peak vessel speed. The peak values can be reset.</p>	 <p>The Peak Speed display screen shows a three-bladed propeller icon at the top. Below it, the title 'Peak Speed' is centered. The screen displays four data points: 'RPM' with a value of 2050 and 'RPM' label; 'Speed' with a value of 12.7 and 'MPH PDL' label; 'Peak Speed' with a value of 58 and 'MPH' label; and 'RPM @ Speed' with a value of 5800 and 'RPM' label. At the bottom, there are navigation options: '[EXIT] [NEXT] [OPTION]' and a page number '36087'.</p>
<p>Fuel Pressure</p>	<p>Displays the engine RPM, fuel pressure, and amount of fuel that is currently used per hour.</p>	 <p>The Fuel Pressure display screen shows a three-bladed propeller icon at the top. Below it, the title 'Fuel Pressure' is centered. The screen displays three data points: 'RPM' with a value of 2050 and 'RPM' label; 'Fuel Press' with a value of 12.7 and 'BAR' label; and 'Fuel Flow' with a value of 8 and 'L/H' label. At the bottom, there are navigation options: '[EXIT] [NEXT]' and a page number '36095'.</p>
<p>RPM Synch</p>	<p>Displays the engine RPM and color band indicating to increase or decrease the RPM to synchronize the engines.</p>	 <p>The RPM Synch display screen shows a three-bladed propeller icon at the top. Below it, the title 'RPM' is centered, followed by 'RPM SYNCH'. The screen features a horizontal scale with '3750' on the left and '3250' on the right. A shaded bar is positioned between these two values. Below the scale, the labels 'PORT' and 'STBD' are shown. At the bottom, there are navigation options: '[EXIT] [NEXT]' and a page number '42334'.</p>
<p>Fuel Used</p>	<p>Displays the engine location the gauge is connected to, the amount of fuel that is currently used per hour, and the amount of fuel that has been used. The amount of fuel used can be reset. STBD (starboard engine) PORT (port engine) CNTR (center engine) STB2 (starboard center) PRT2 (port center)</p>	 <p>The Fuel Used display screen shows a three-bladed propeller icon at the top. Below it, the title 'STBD' is centered. The screen displays two data points: 'Fuel Flow' with a value of 12.7 and 'L/H' label; and 'Fuel Used' with a value of 8.0 and 'L' label. At the bottom, there are navigation options: '[EXIT] [NEXT] [OPTION]' and a page number '36099'.</p>

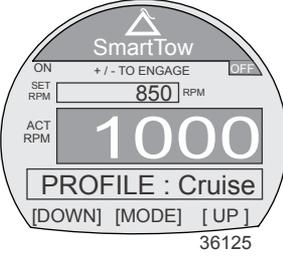
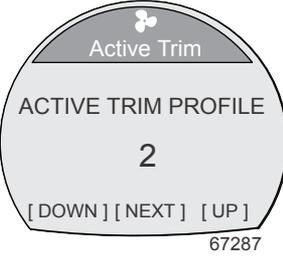
PROPULSION MENU

<p>Double Screens</p>	<p>The double screen displays two selected data options on an outer and inner display. The outer data will be displayed as a bar graph with a small window that moves with the bar graph leading edge. The inner data will be displayed as numbers. Options that can be selected are; "RPM," "Speed," "Coolant Temp," "Oil Temp," "Seatemp," "Water Press," "Oil Press," "Fuel Flow," "Fuel," "Battery," and "Depth."</p>	 <p>42336</p>
<p>Analog Tachometer</p>	<p>Displays the engine RPM with a sweeping pointer.</p>	 <p>42338</p>
<p>Analog Speedometer</p>	<p>Displays the vessel speed with a sweeping pointer. Two different ranges are available; 0–80 or 0–120 as knots, kilometers per hour, or miles per hour.</p>	 <p>42339</p>
<p>Volts/Hours</p>	<p>Displays the total hours the engine has run, the battery current state of charge, and the engine RPM.</p>	 <p>36102</p>

PROPULSION MENU

<p>Boost Pressure</p>	<p>Displays the engine RPM, the vessel speed through the active sensor, and the amount of manifold pressure.</p>	 <p>36106</p>
<p>Trim Synch (Dual Engine)</p>	<p>Displays a color band indicating to increase or decrease the trim to synchronize the engines trim location.</p>	 <p>42340</p>
<p>Trim</p>	<p>Displays the position of the trim with a moving propeller icon and displays the trim position number relative to the propeller icon.</p>	 <p>36109</p>
<p>Trim/Tab</p>	<p>Displays the position of the port and starboard tabs with a moving tab icon and the trim position with a moving propeller icon. A number relative to the position of the icons is also displayed in the lower portion of the screen.</p>	 <p>36527</p>

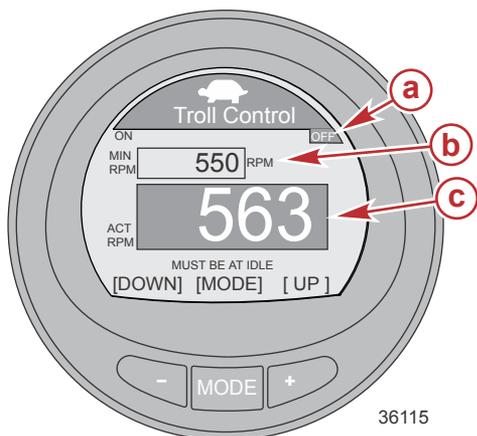
PROPULSION MENU

<p>Smart Tow</p>	<p>Displays an icon to indicate Smart Tow is turned on or off, selects cruise control or launch control, selects the launch control level one through five, allows the creation of up to eight customized launch levels, and selects if Smart Tow is based on RPM or speed.</p>	
<p>Active Trim</p>	<p>The Active Trim screen shows the status of Active Trim, either ON or OFF. Pushing the "+" button will enable the Active Trim feature.</p>	
<p>Active Trim Profile</p>	<p>There are 5 Active Trim profiles. Pressing the "-" or "+" buttons will navigate either [UP] or [DOWN] through the profiles.</p>	
<p>Sport Exhaust</p>	<p>The Sport Exhaust feature allows the operator to change the sound of the outboard idle relief exhaust volume. Enabling the Sport Exhaust feature opens an exhaust passage, allowing a more deep exhaust sound at idle.</p>	

PROPULSION MENU

Troll Control

The Troll Control screen displays an icon to indicate the troll control is turned on or off, the engine RPM, or the vessel speed. Troll control can be controlled by the vessel speed or the engine RPM.

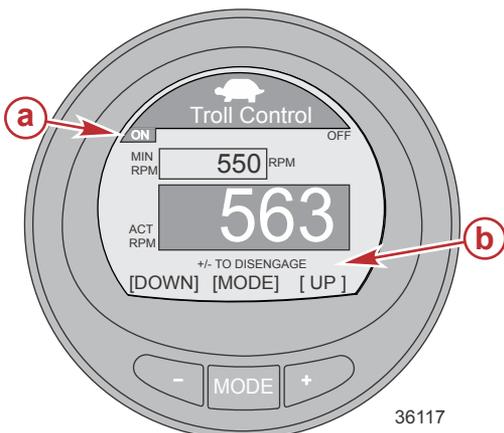


- a -** Icon indicating troll control is turned off
- b -** Set RPM
- c -** Actual engine RPM

36115

TURNING TROLL CONTROL ON AND OFF

1. Ensure the engine is running and the remote control is in gear at idle.
2. To turn the troll control on, press the "-" and "+" buttons at the same time. The troll control ON icon will be highlighted and the information below the RPM will change to +/- TO DISENGAGE.



- a -** Troll control ON icon
- b -** +/- TO DISENGAGE

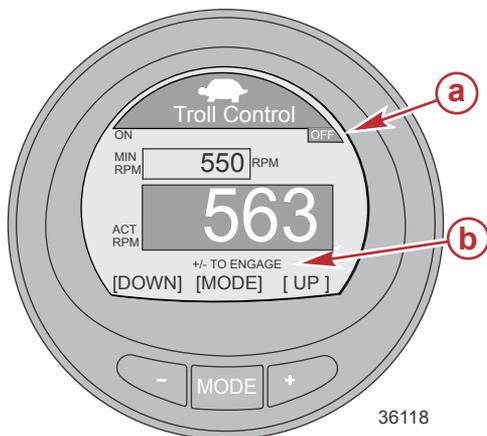
36117

3. Press the "-" or "+" button to decrease or increase the engine RPM.

NOTE: The minimum RPM and the maximum RPM will depend on the power package application.

PROPULSION MENU

4. To turn the troll control off, press the "-" and "+" buttons at the same time, or move the remote control handle into neutral. The troll control OFF icon will be highlighted and the information below the RPM will change to +/- TO ENGAGE.



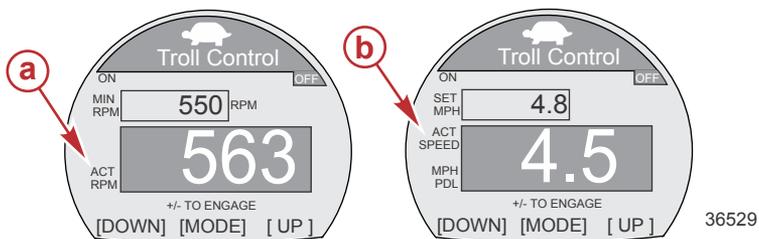
- a - Troll control OFF icon
- b - +/- TO ENGAGE

36118

CHANGING THE TROLL CONTROL MODE OF CONTROL

The troll control function can be controlled with the engine RPM or the vessel speed. To use the vessel speed to control the troll function, a paddle wheel must be installed. Using the engine RPM to control the troll function will cause the vessel speed to vary based on the conditions the vessel encounters: wind, waves, or current. Using the vessel speed to control the troll function will cause the engine RPM to fluctuate more, based on the conditions the vessel encounters: wind, waves, or current. Changing the troll control mode can be done when the troll control is turned on or off.

1. While the troll control screen is visible, press and hold the MODE button until the screen changes mode.



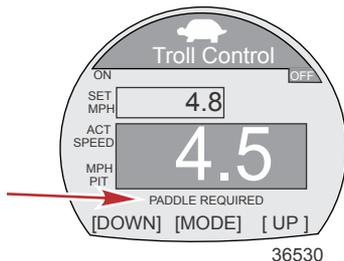
36529

- a - RPM mode
- b - Speed mode

2. Press the "-" or "+" button to change the speed. The engine RPM will react to the selected speed when the troll control is engaged.

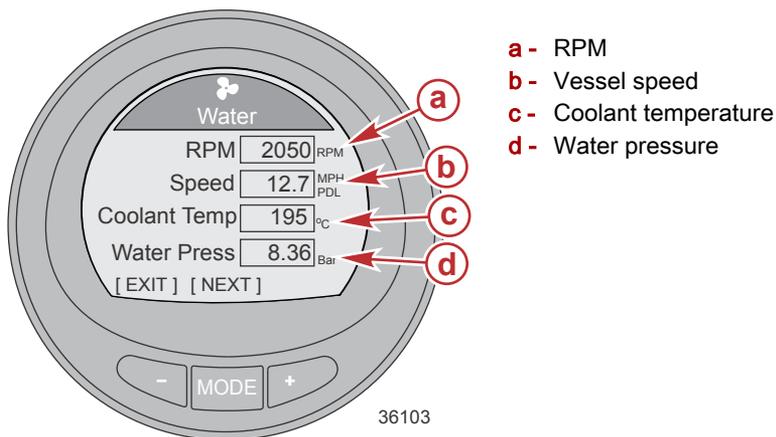
PROPULSION MENU

3. To change back to the RPM mode, press and hold the MODE button until the screen changes from speed mode to the RPM mode.
4. If there is no paddle wheel installed on the vessel, the speed mode of control will show text below the ACT SPEED window indicating a paddle wheel is required—PADDLE REQUIRED.



Water Screen

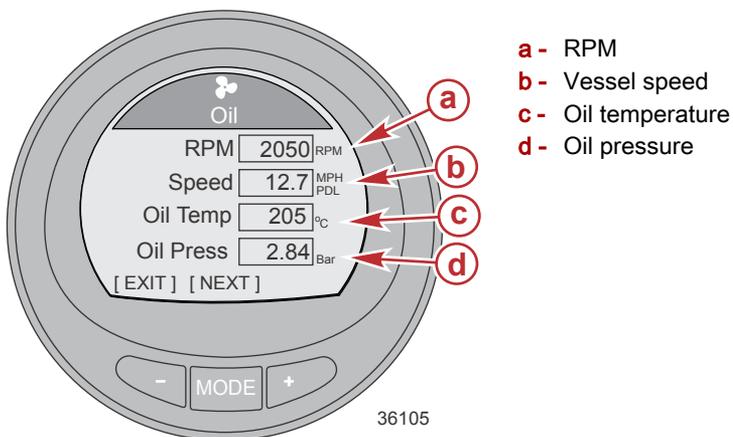
The Water screen displays the engine RPM, vessel speed through the active sensor, coolant temperature, and water pressure.



PROPULSION MENU

Oil Information

The Oil screen displays the engine RPM, vessel speed through the active sensor, oil temperature, and oil pressure.



Oil Level

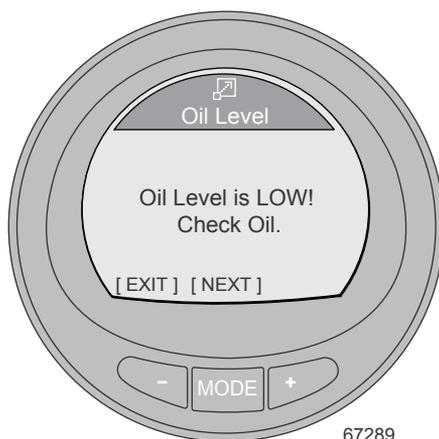
NOTE: The engine oil level data screen may require additional components to be installed on the engine. Review the operation manual that came with your power package or consult your authorized Mercury dealer to determine if the proper equipment is installed on the engine.

The Oil Level screen displays the engine oil level status as Oil Level OK or Oil Level is LOW. The engine oil level status is only displayed upon key on, before the engine is started. During operation of the engine this data screen will not actively monitor the engine oil level.



Oil level is OK reading

PROPULSION MENU

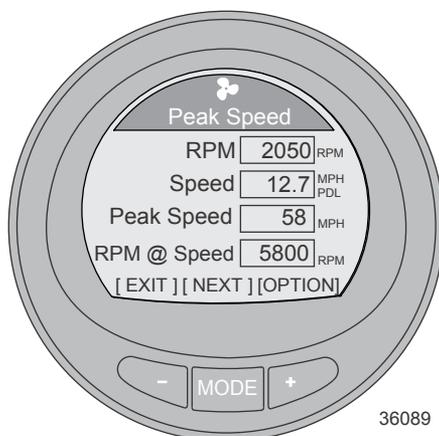


67289

Oil level is low reading

Peak Speed

The Peak Speed screen displays the engine RPM, vessel speed through the active sensor, the peak vessel speed, and what the engine RPM was at that peak vessel speed. The peak values information will automatically update when the recorded values are exceeded.



36089

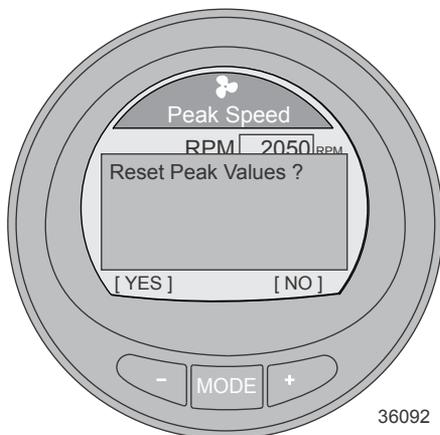
RESET PEAK VALUES

The peak values can be reset to record new information.

1. Press the "+" button to open the option to reset the peak values.

PROPULSION MENU

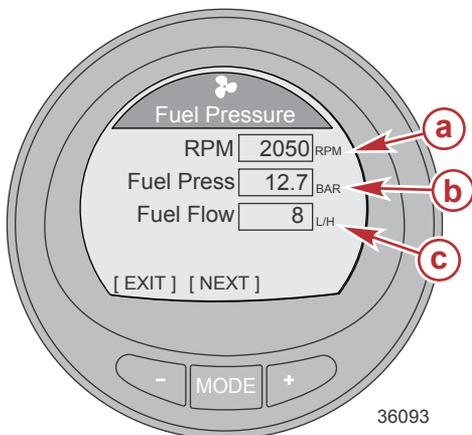
- Press the "-" button ("YES") or "+" button ("NO") to reset the peak values. The screen will return to the Peak Speed screen.



36092

Fuel Pressure

The Fuel Pressure screen displays the engine RPM, fuel pressure, and amount of fuel that is currently used per hour. The fuel flow is calculated by the PCM/ECM.



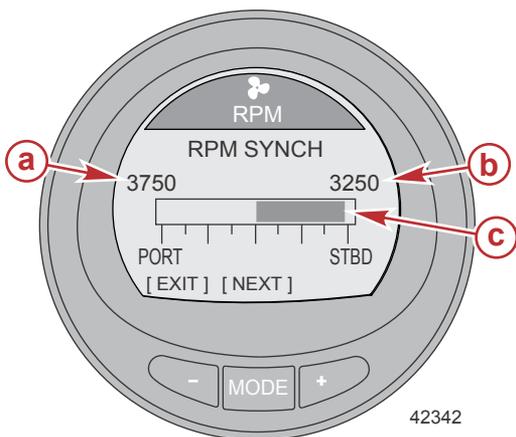
- a** - RPM
- b** - Fuel pressure
- c** - Fuel flow

36093

PROPULSION MENU

RPM Synchronize

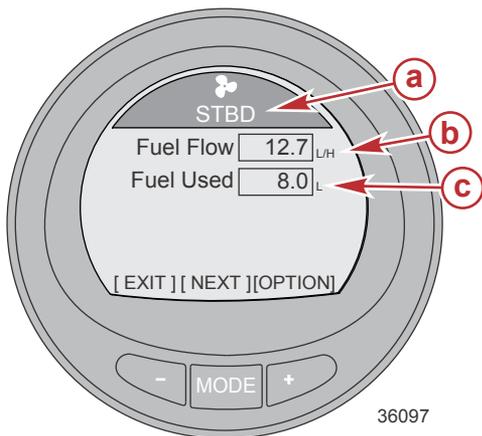
The RPM SYNCH screen displays the engine RPM and a color band that expands under the engine with the lower RPM. The color band will decrease in size as the engine RPM's near synchronization.



- a** - Port engine RPM
- b** - Starboard engine RPM
- c** - Color band indicating starboard engine RPM is low

Fuel Used

The engine location fuel used screen shows the engine location the gauge is connected to in the upper part of the screen, the amount of fuel that is currently used per hour, and the amount of fuel that has been used for that particular engine. The amount of fuel used can be reset.



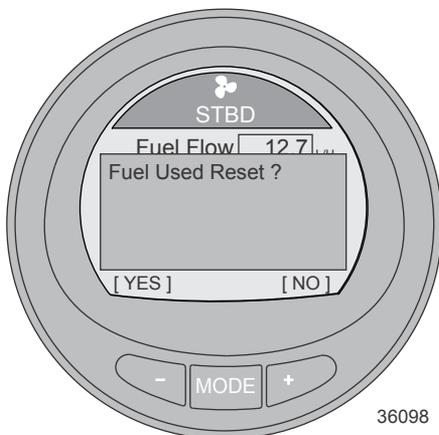
- a** - Engine location gauge is connected to
- b** - Fuel flow
- c** - Fuel used

FUEL USED RESET

1. Press the "+" button to open the Fuel Used reset option.

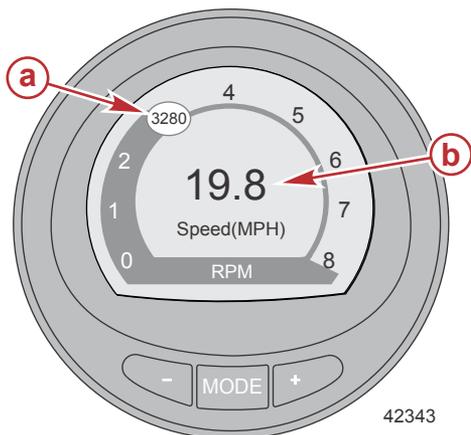
PROPULSION MENU

2. Press the "-" button ("YES") to reset the fuel used, or the "+" button ("NO") to return to the fuel use per engine location screen.



Double Screen

The double screen displays two selected data options on an outer and inner display. The outer data will be displayed as a bar graph with a small window that moves with the bar graph leading edge. The inner data will be displayed as numbers. Options that can be selected are; RPM, Speed, Coolant Temp, Oil Temp, Seatemp, Water Press, Oil Press, Fuel Flow, Fuel, Battery, and Depth. There are five double screens available.

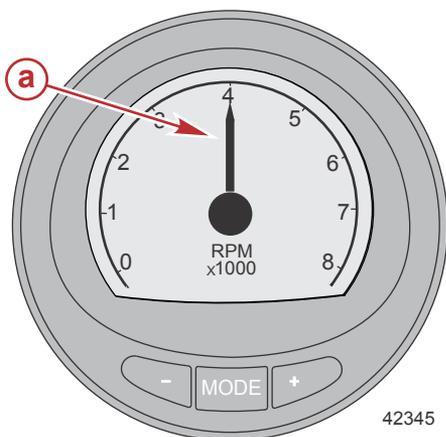


- a - Moving window showing the engine RPM
- b - Vessel speed

PROPULSION MENU

Analog Tachometer

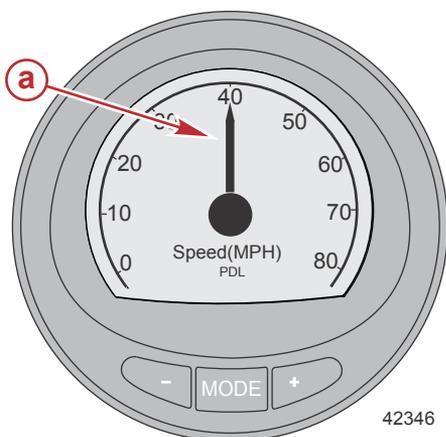
The analog tachometer displays the engine RPM with a sweeping pointer, simulating a mechanical analog tachometer.



a - Sweeping pointer

Analog Speedometer

The analog speedometer displays the vessel speed with a sweeping pointer, simulating a mechanical analog speedometer. Two speedometer scales are available: 0–80 and 0–120.

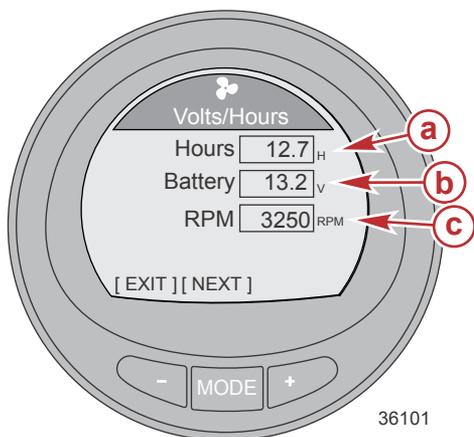


a - Sweeping pointer

PROPULSION MENU

Volts/Hours

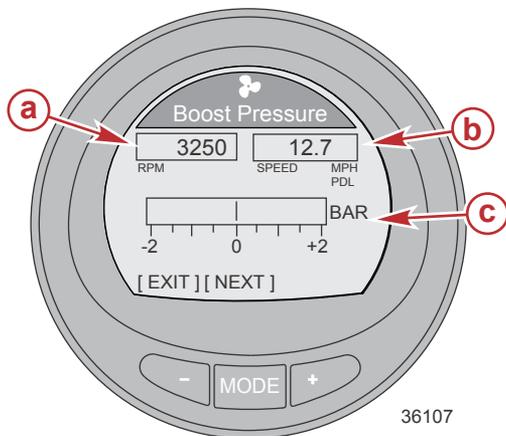
The Volts/Hours screen displays the total hours the engine has run, the battery current state of charge, and the engine RPM.



- a** - Total engine hours
- b** - Battery state of charge
- c** - RPM

Boost Pressure

The Boost Pressure screen displays the engine RPM, the vessel speed through the active sensor, and the amount of manifold pressure.

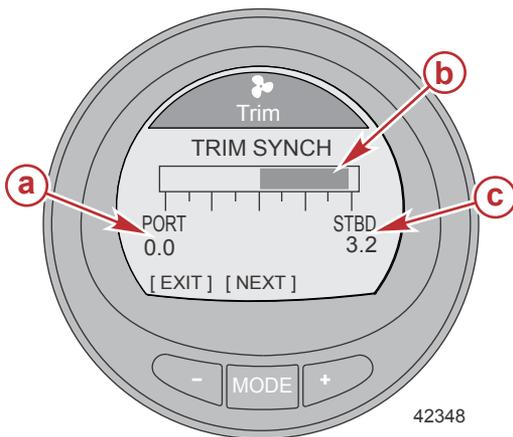


- a** - RPM
- b** - Vessel speed
- c** - Manifold pressure

PROPULSION MENU

Trim Synchronize

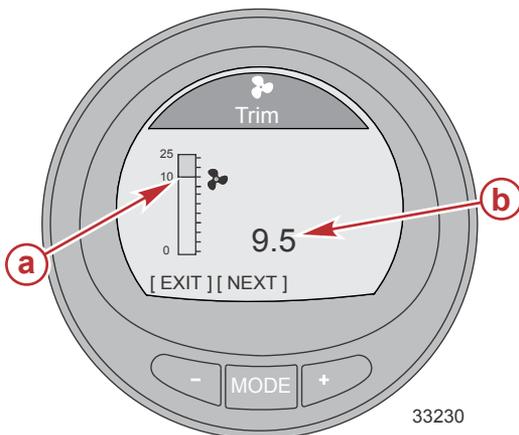
The Trim Synch screen displays a color band indicating to increase or decrease the trim to synchronize the engines trim location. The numbers are a point of reference, relating to the position of the trim outside of the synchronization.



- a** - Port engine trim point of reference
- b** - Color band
- c** - Starboard engine trim point of reference

Trim Screen

The Trim screen displays the position of the trim with a moving propeller icon and displays the trim position number relative to the propeller icon.

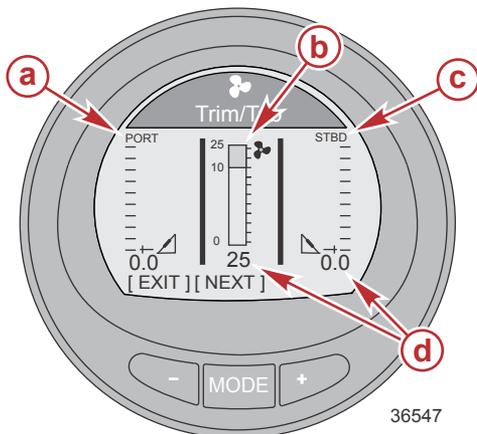


- a** - Trim indicator
- b** - Number indicating the relative position

PROPULSION MENU

Trim/Tab

The Trim/Tab screen displays the position of the port and starboard tabs with a moving icon that represents the relative position of the tabs. A number below the tab display will indicate the relative position of the tab. The center of the display will show the position of the trim with a moving icon that represents the relative position of the trim. A number below the trim display will indicate the relative position of the trim.



- a** - Port tab indicator
- b** - Trim indicator
- c** - Starboard tab indicator
- d** - Number indicating the relative position

Smart Tow

SMART TOW OPERATION

NOTE: Cruise and launch control is only available with Gen I—2007 and newer DTS engines.

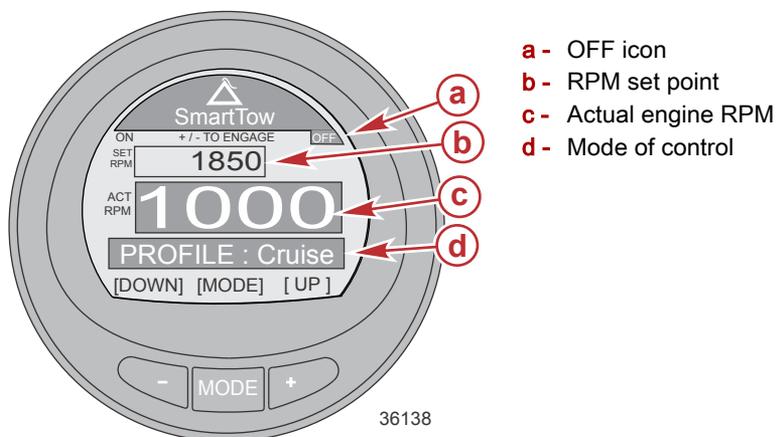
NOTE: The cruise control minimum and maximum range will vary depending on the type of power package application.

There are two modes of cruise control: RPM mode and speed mode. The launch control will inherit the mode of control selected. There are five launch levels. Level 1 is the most gradual and level 5 is the most aggressive.

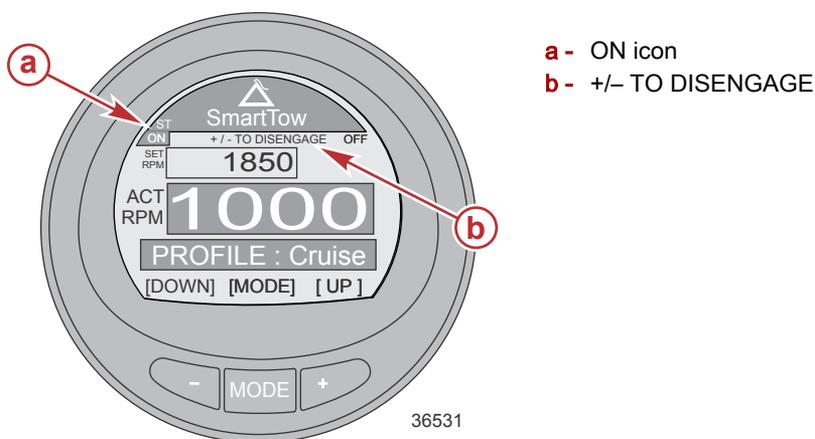
There are eight customized launch settings. Each customized launch setting name can have up to seven characters to identify the custom launch.

PROPULSION MENU

NOTE: To use the speed setting control, a paddle wheel must be installed, or a SmartCraft GPS puck must be installed.



1. To engage the Smart Tow function, press the "-" and "+" buttons at the same time. The Smart Tow ON icon will be highlighted in the upper left corner and the information above the SET RPM window will be changed to +/- TO DISENGAGE. When Smart Tow is engaged, the ON icon will remain on and be visible on all of the monitor screens.



2. Shift the drive unit into forward gear. The throttle must be above the set cruise RPM or speed for the Smart Tow cruise to function. When the throttle is moved below the set cruise engine RPM or speed, the engine RPM will decrease with the throttle movement.
3. Press the "-" button to decrease the engine RPM. Press the "+" button to increase the engine RPM.

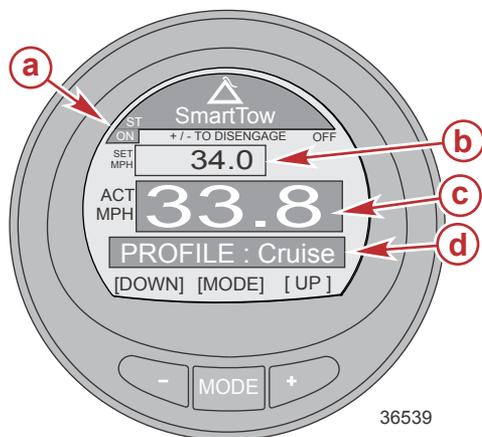
PROPULSION MENU

4. To disengage the "Smart Tow" function, press the "-" and "+" buttons at the same time. The Smart Tow OFF icon will be highlighted in the upper right corner, and the information above the SET RPM window will change to +/- TO ENGAGE.

Changing the Cruise Control Mode

There are two modes of cruise control: RPM mode and speed mode. To use the vessel speed to control the cruise function, a paddle wheel must be installed, or a SmartCraft GPS puck must be installed. Using the engine RPM to control the cruise function will cause the vessel speed to vary based on the conditions the vessel encounters: wind, waves, or current. Using the vessel speed to control the cruise function will cause the engine RPM to fluctuate more, based on the conditions the vessel encounters: wind, waves, or current. Changing the cruise control mode can be done when the troll control is turned on or off.

1. To change the mode of cruise control, press and hold the MODE button until the screen changes the mode of cruise control.



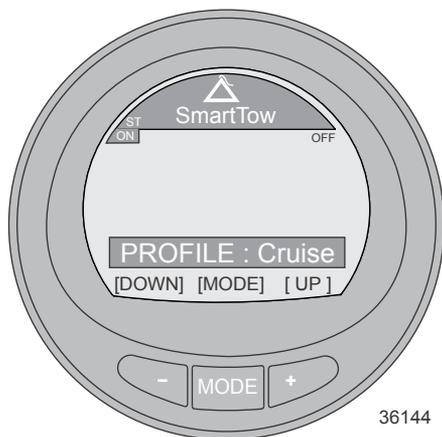
- a - ON icon
- b - RPM set point
- c - Actual engine RPM
- d - Mode of control

2. The operation of the cruise control in speed mode is the same as RPM mode. Shift the drive unit into forward gear. The throttle must be above the set cruise speed for the Smart Tow cruise to function. When the throttle is moved below the set cruise engine speed, the engine RPM will decrease with the throttle movement.
3. Press the "-" button to decrease the speed. Press the "+" button to increase the speed.
4. To disengage the "Smart Tow" function, press the "-" and "+" buttons at the same time. The Smart Tow OFF icon will be highlighted in the upper right corner and the information above the SET MPH window will change to +/- TO ENGAGE.

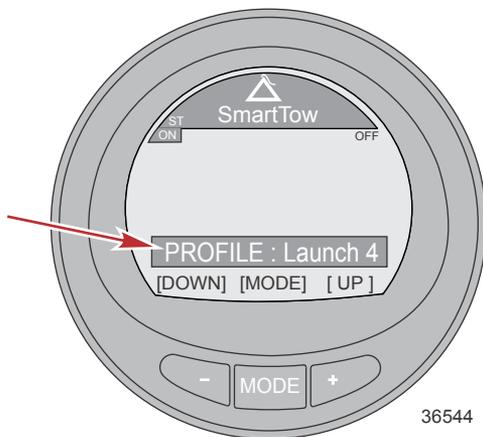
PROPULSION MENU

Selecting a Launch Control

1. While the Smart Tow cruise screen is visible, press the MODE button and an icon of a person skiing will appear on the profile screen for approximately three seconds.

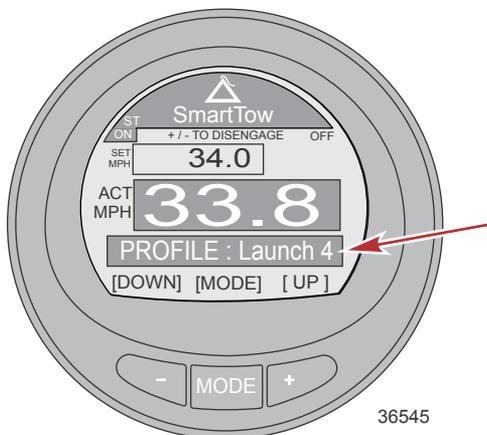


2. Press the "-" or "+" button when the profile screen is visible to advance through or change the launch modes, and all of the customized launch settings.



PROPULSION MENU

3. After selecting the launch setting, the screen will return to the Smart Tow screen and the selected launch setting will populate the lower window.



Launch level 4

4. To change the launch level, press the MODE button and press the "+" or "-" button to change the launch setting.
5. To change the mode of cruise control, press and hold the MODE button until the screen changes the mode of cruise control.

CREATING A CUSTOMIZED LAUNCH SETTING

NOTE: Cruise and launch control is only available with Gen I—2007 and newer DTS engines.

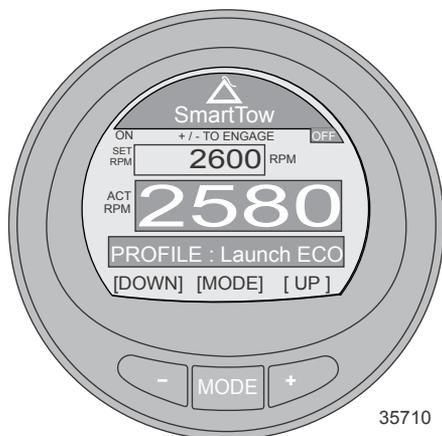
NOTE: The cruise control minimum and maximum range will vary depending on the type of power package application.

There are eight customized launch settings. Each customized launch setting name can have up to seven characters to identify the custom launch. The custom launch setting can be controlled by RPM or speed. To use the speed setting control, a paddle wheel must be installed, or a SmartCraft GPS puck must be installed.

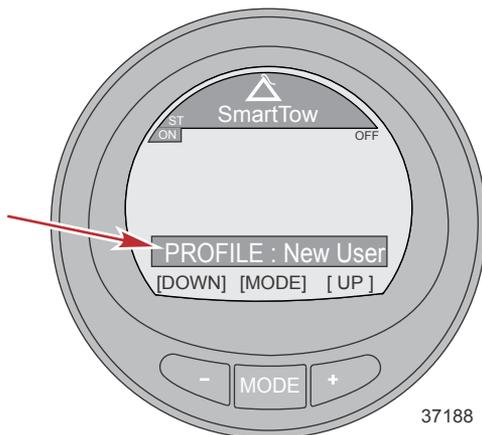
1. While in the Main Menu, press the "-" or "+" button to highlight the Propulsion menu. Press the MODE button to enter the Propulsion menu.
2. Press the "-" or "+" button to highlight the Smart Tow screen.
3. Press the MODE button and an icon of a person skiing will appear on the profile screen for approximately three seconds.

PROPULSION MENU

4. While the screen with the icon of a person skiing is visible, press the "+" button to begin viewing launch profiles.



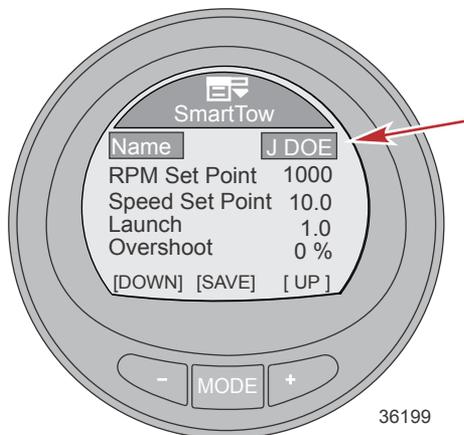
5. The Profile window will change to New User.



6. After approximately three seconds the edit mode of the New User will appear and the new user Name will be highlighted.
7. Press the "-" or "+" button to edit and change the alpha character. Press the MODE button to move to the next character. Press the "-" or "+" button to edit and change the next alpha character. Continue this process until the custom launch name is complete.

PROPULSION MENU

NOTE: All of the alpha characters must be edited before the RPM Set Point can be edited.



8. Press the MODE button to exit the Name edit mode.
9. Press the "-" button to highlight the RPM Set Point.
10. Press the MODE button to edit the RPM Set Point.
11. Press the "-" or "+" button to change the RPM Set Point.
12. Press the MODE button to exit the RPM Set Point mode.
13. Press the "-" button to highlight the Speed Set Point.
14. Press the MODE button to edit the Speed Set Point.
15. Press the "-" or "+" button to change the Speed Set Point.
16. Press the MODE button to exit the Speed Set Point mode.
17. Press the "-" button to highlight Launch.
18. Press the MODE button to edit Launch.
19. Press the "-" or "+" button to change the Launch setting.

NOTE: There are five launch levels. Level 1 is the most gradual and level 5 is the most aggressive.

20. Press the MODE button to exit the Launch mode.
21. Press the "-" button to highlight Overshoot.
22. Press the MODE button to edit Overshoot.

NOTE: Overshoot is the amount of RPM the engine will achieve above the RPM Set Point.

23. Press the "-" or "+" button to change the overshoot percentage setting.
24. Press the MODE button to exit the Overshoot mode.
25. Press the "-" button to highlight Duration.
26. Press the MODE button to edit Duration.

PROPULSION MENU

NOTE: Duration is the amount of time the engine RPM Overshoot will be allowed.

IMPORTANT: The RPM and speed set points will change to the last set point used for that particular new user when using Smart Tow.

27. Press the "-" or "+" button to change the duration seconds.
28. Press the MODE button to exit the Duration mode.
29. Press the "-" button to highlight the Exit option.
30. Press the MODE button to exit the custom launch mode.

Active Trim

REQUIREMENTS

Additional hardware for your vessel may be required for the Active Trim features to function. See your authorized Mercury Marine dealer for information on required hardware.

Introduction to Active Trim

Active Trim is Mercury Marine's patented GPS-based automatic trim system. This intuitive, hands-free system continually adjusts engine or drive trim for changes in operating conditions to improve performance, fuel economy, and ease of operation. It responds to boat maneuvers with precision and delivers a better overall driving experience. No knowledge of trimming an engine or drive is needed to take advantage of Active Trim.

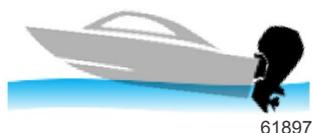
- As the boat accelerates, the engine or drive will trim out.
- As the boat decelerates, for example, while making a turn, the engine or drive will trim in.
- Active Trim can be overridden at anytime by using the regular, manual trim buttons.
- Active Trim allows the boat operator to compensate for changes in boat load, driver preferences, and weather conditions while maintaining full automatic control.

The Active Trim system has four modes of operation:



1. Idle speeds

Maintains the existing trim position.



2. Acceleration (hole shot)

Tucks the engine or drive under to minimize bow rise and improve time-to-plane.

PROPULSION MENU



3. Planing speeds

Progressively trims the engine or drive based on GPS speed to maintain the most efficient running attitude.



4. Override

When the boat operator uses manual trim, the Active Trim system is immediately overridden, returning full control to the operator.

Active Trim Operation

- Active Trim automatically controls trim to maintain the optimum engine or drive position based on engine RPM and boat speed.
- Active Trim progressively trims out the engine or drive to maintain an efficient running attitude.
- Active Trim will maintain the last known trim position when operating at speeds in excess of 80 km/h (50 mph).
- Operation above 80 km/h (50 mph) may require trim adjustments using the panel mounted or control handle trim position switch.
- Active Trim will gradually return the engine or drive to the down position during deceleration.
- Active Trim will only function when the engine or drive is in the normal trim range.

GPS

Active Trim uses a GPS signal to determine vessel speed. The Active Trim system will not automatically control trim until the GPS unit has acquired a signal.

Resume Functionality

If the boat operator overrides the Active Trim system at planing speeds using the trim button, or exceeds 80 km/h (50 mph), the system will stop controlling the trim. Active Trim will resume automatically under the following conditions:

- Override occurred above 80 km/h (50 mph) and the boat operator then decelerates to below 80 km/h (50 mph).
- Override occurred above 80% of the rated engine RPM and the boat operator then decelerates to below 80% of the rated engine RPM.
- Override occurred in the cruising speed range and then the boat operator decelerates to idle. Active Trim will become active on the next acceleration.

PROPULSION MENU

Shallow Water Operation

Active Trim cannot detect water depth and will not trim up automatically in shallow water. The boat operator will need to override Active Trim by trimming the engine or drive manually or pressing the OFF button.

Trailer Position

Placing the engine or drive in trailer position (over 50% of the adapted trim range) will prevent Active Trim from engaging. Any time the engine or drive is trimmed above its normal range—to navigate shallow water, launch the boat from a trailer, or load the boat onto a trailer, for example—you must manually trim down before Active Trim will function. This safety feature is meant to prevent the engine or drive from automatically trimming down and hitting something.

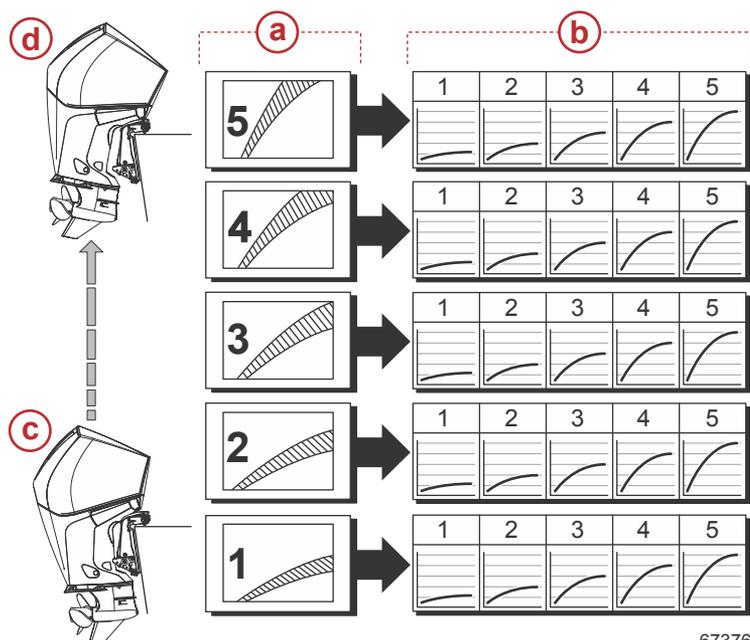
Trim Profiles

Active Trim works off 25 preset trim profiles. These 25 trim profiles are divided into 5 Major profile groups. Within each Major profile group are 5 Minor profiles—sometimes referred to as adjustable profiles.

Major Trim profiles: Major trim profiles are selected in the **Settings** menu. There are five Major trim profiles. The lower the number, the less aggressive the trim position of the outboard or drive will be at a lower boat speed. As the Major trim profile number is increased, the more aggressive the outboard or drive trim angle will be at lower boat speeds. Finding the proper Major trim profile ultimately results in the boat running on plane, where the bow is at a desirable attitude to the water surface and the outboard or drive is perpendicular to the water surface. For most applications, a Major trim profile will be 2, 3, or 4. Select a running Major trim profile and increase the Major profile until the boat begins to porpoise, then back down one Major trim profile.

PROPULSION MENU

Minor Trim profiles: Minor profiles are selected in the **Propulsion** screen. Once a desirable Major trim profile has been selected, select a Minor trim profile. Slight variations in the Minor trim profiles can be made to help compensate for boat loading—passenger or gear distribution, changes in ballast or fuel tank levels, weather, propping, and operator preference. Select a Minor trim profile between 1 and 5 to find the ideal trim position for running on plane.



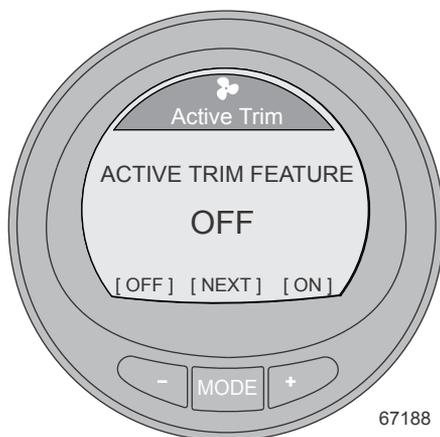
67376

- a** - Major trim profiles
- b** - Minor trim profiles
- c** - Less aggressive trimming
- d** - More aggressive trimming

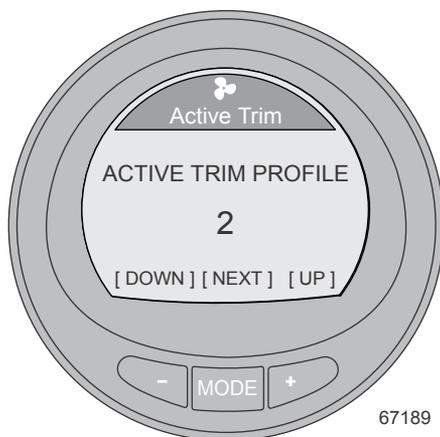
PROPULSION MENU

TRIM SELECTION

The Active Trim screen shows the status of Active Trim, either ON or OFF. Pushing the "+" button will enable the Active Trim feature.



When Active Trim is enabled, the operator will be able to select a profile that best suits their boating preference. There are 5 adjustable Active Trim profiles. A lower number profile applies less trim to the outboard or drive, while a higher number profile applies more trim to the outboard or drive. Pressing the "-" or "+" button will navigate either UP or DOWN through the profiles. This allows the operator to fine tune the trim curve during boat operation to compensate for differences in environmental conditions or boat loading. If there is not enough adjustment to get the boat to trim properly, a major profile adjustment may need to be made.



PROPULSION MENU

After selecting an Active Trim profile, pressing the MODE button will take the operator to the next propulsion screen. The Active Trim status will remain enabled until the Active Trim feature is disabled, by pressing the "-" button ("OFF").

When accessing the Active Trim screen through either the Full Screen or the Propulsion sections of the gauge, the minor profile adjustment is available to the operator. To change the major profile selection, the operator must return to the Settings menu. In the Settings menu, navigate to the Active Trim selection and make major profile selection changes.

Sport Exhaust

FEATURE DESCRIPTION

NOTE: *Sport Exhaust is only available on certain outboard models.*

The Sport Exhaust feature allows the operator to change the sound of the outboard idle relief exhaust volume. Enabling the Sport Exhaust feature opens an exhaust passage, allowing a more deep exhaust sound.

SPORT EXHAUST SCREEN

The Sport Exhaust screen displays the status of this engine sound feature.



67185

PROPULSION MENU

Pressing the "+" button will enable "ON", or disable "OFF" the Sport Exhaust feature.



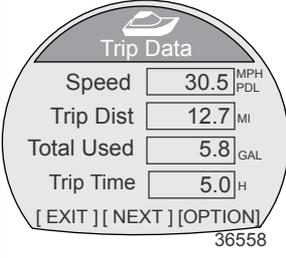
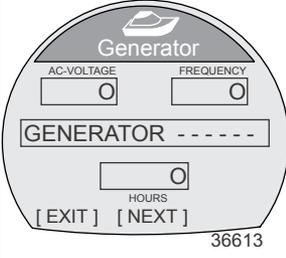
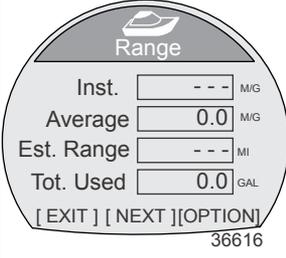
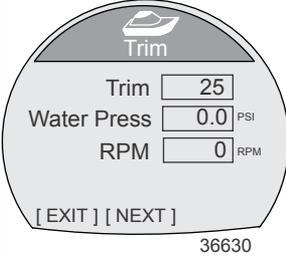
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VESSEL MENU

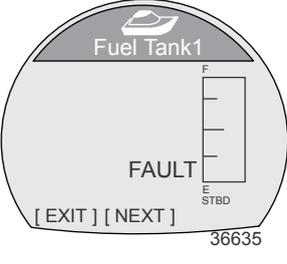
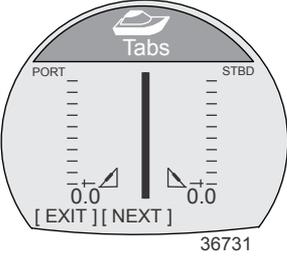
Using the Vessel Screens

The Vessel menu screens will display information concerning the vessel and associated systems. Screens that are available in the Vessel menu may vary according to the engine type.

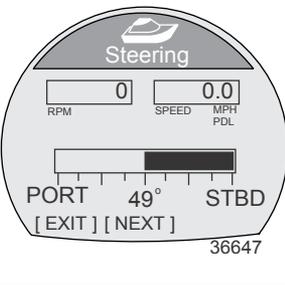
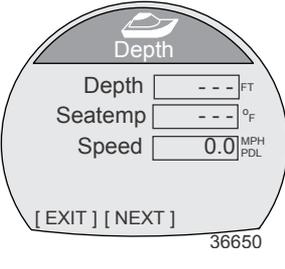
Available Vessel Screens

<p>Trip Data</p>	<p>Displays the vessel speed through the available sensor, the current trip distance, the total amount of fuel used, and the current amount of time during the trip. The distance, fuel used, and trip time can be reset.</p>	
<p>Generator</p>	<p>Displays the AC voltage, the hertz frequency, the generator location or name, and the generator running hours. The generator unit must be interfaced with the CAN communication for this option to display information.</p>	
<p>Range</p>	<p>Displays the current amount of fuel economy, the average amount of fuel used, the estimated distance the vessel can travel based on the current usage, and the total amount of fuel used. The average fuel used and the total amount used can be reset.</p>	
<p>Trim</p>	<p>Displays a number relating to the position of the trim system, the engine water pressure, and the engine RPM.</p>	

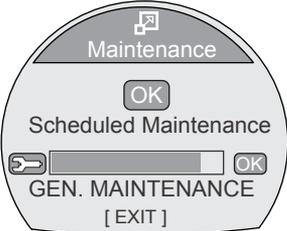
VESSEL MENU

<p>Fuel Tank1</p>	<p>Displays the level of the fuel tank, the location of the fuel tank, and will display FAULT when there is a problem with the fuel tank. It can also be selected as not installed ("Not inst"). When selected as not installed, the Fuel Tank1 screen will not be accessible.</p>	
<p>Tank 2</p>	<p>Tank 2 can be selected as not installed, fuel, water, or waste when connected to a 4-Stroke engine. When selected as fuel, the level can be calibrated with a default setting, or by adding fuel. When selected as water or waste, the level is calibrated to the default setting.</p>	
<p>Tabs</p>	<p>Displays the position of the tabs with numbers and a bar graph for each tab.</p>	
<p>GPS</p>	<p>Displays the course over ground COG, speed over ground SOG, latitude position LAT, and longitude position LON. A GPS must be installed for this option to display information.</p>	

VESSEL MENU

<p>To Waypoint</p>	<p>Displays the amount of time to the waypoint, the compass bearing toward the waypoint, the distance to the waypoint, and the amount of fuel required to the waypoint. A GPS must be installed with a SmartCraft puck for this option to display information.</p>	
<p>Steering</p>	<p>Displays the engine RPM, the vessel speed, a bar graph indicating the direction of the steering PORT or STBD, and a number displayed to indicate the relative position of the steering. A steering position sensor must be installed for this screen to display the steering direction and relative position.</p>	
<p>Depth</p>	<p>Displays the depth of the water, the temperature of the water, and the speed of the vessel through the active sensor.</p>	

VESSEL MENU

Maintenance	<p>Some 4-Stroke power package models can estimate the amount of time the engine has run since the last scheduled maintenance. Normal scheduled maintenance for the engine is every 100 hours. The maintenance screen shows a bar graph approximating the amount of time remaining before a scheduled maintenance is required. When the maintenance screen is reset, the bar graph will change to 100 hours before the next scheduled maintenance. The maintenance screen must be turned on for this screen to be displayed. Your owner's manual maintenance schedule should be followed regardless of what the gauge displays. To turn this feature on, refer to Section 7: Settings—Turning the Screens On.</p>	 <p>The diagram shows a circular maintenance screen. At the top, it says 'Maintenance' with a small icon. Below that is an 'OK' button. The main text reads 'Scheduled Maintenance' followed by a horizontal bar graph. To the left of the bar graph is a left arrow button, and to the right is an 'OK' button. Below the bar graph, it says 'GEN. MAINTENANCE' and '[EXIT]'. The number '50377' is in the bottom right corner of the diagram.</p>
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Trip Data

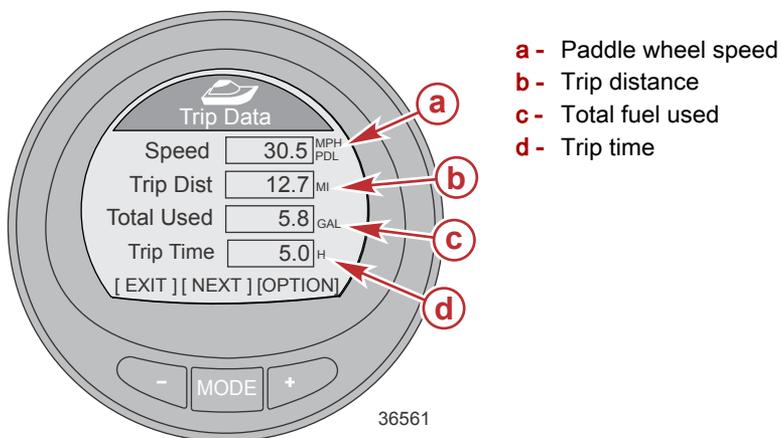
The Trip Data screen displays the current vessel speed. This data is based on which sensor is active; pitot sensor, paddle wheel, or GPS. The type of speed sensor is displayed on the right side of the Speed information window. When the transition speed is reached, the new active speed sensor will then be displayed.

The trip distance—Trip Dist will display how far the vessel has traveled. The trip distance can be reset.

The total fuel used—Total Used is the total of all the engines running on the vessel, displaying how much fuel has been used down to a tenth of the unit. The total fuel used can be reset.

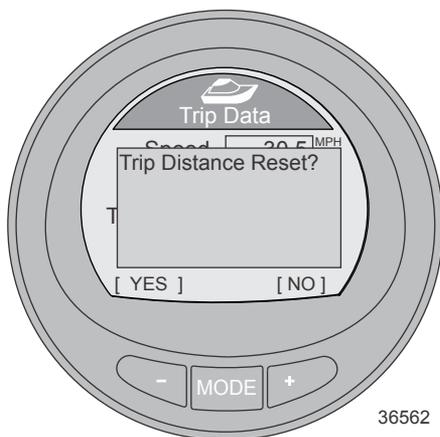
VESSEL MENU

The current amount of time the trip has taken—Trip Time will be displayed in tenths of an hour. The trip time can be reset.



RESETTING THE TRIP DATA INFORMATION

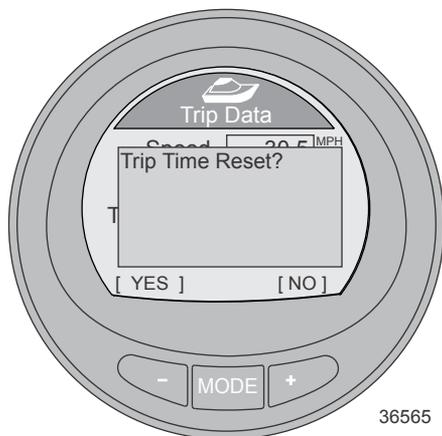
1. While the "Trip Data" option screen is visible, press the "+" button to open the reset option.
2. A pop-up window will appear asking to reset the trip distance—Trip Distance Reset?.
3. Press the "-" button for Yes, or press the "+" button for No.



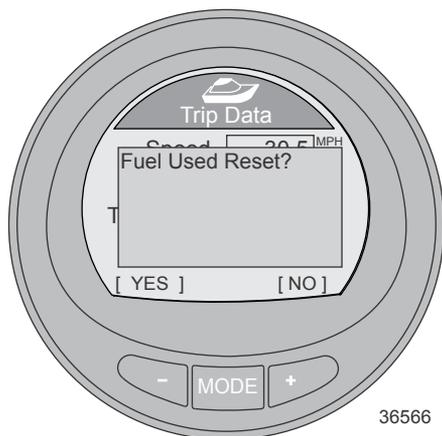
4. The next pop-up window will appear asking to reset the trip time—Trip Time Reset?.

VESSEL MENU

5. Press the "-" button for Yes, or press the "+" button for No.



6. The next pop-up window will appear asking to reset the amount of fuel used—Fuel Used Reset?.
7. Press the "-" button for Yes, or press the "+" button for No.

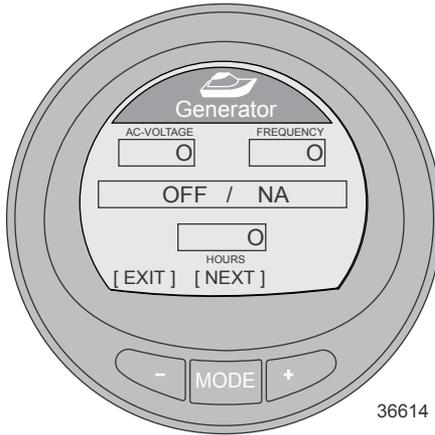


8. Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

VESSEL MENU

Generator

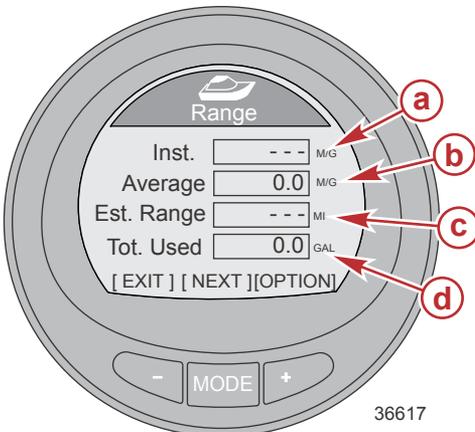
The Generator screen displays the AC voltage, the hertz frequency the generator is producing, the generator location or name, and the generator running hours. The generator unit must be interfaced with the CAN communication for this option to display information.



Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

Range

The Range screen displays the current amount of fuel economy, the average amount of fuel used, the estimated distance the vessel can travel based on the current usage, and the total amount of fuel used. The average fuel used and the total amount used can be reset.

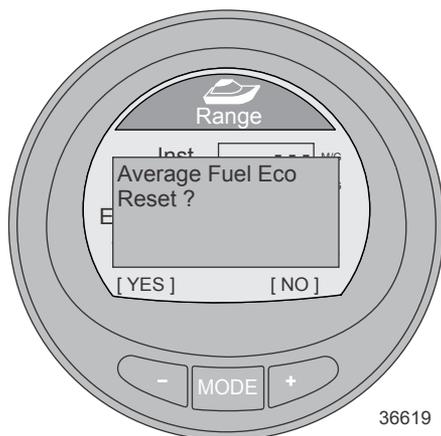


- a** - Current fuel economy
- b** - Average fuel used
- c** - Estimated distance
- d** - Total fuel used

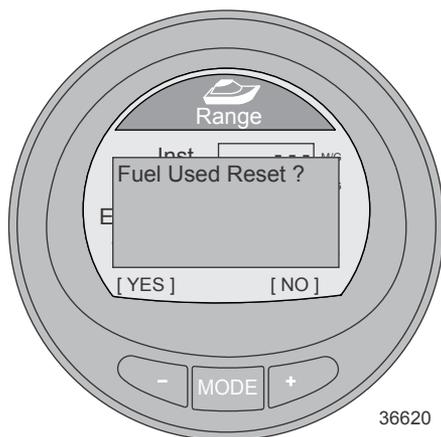
VESSEL MENU

RESET RANGE SCREEN OPTIONS

1. To reset the average fuel used, press the "+" button to access the reset option.
2. A pop-up screen will appear asking if the average fuel economy should be reset—Average Fuel Eco Reset?.
3. Press the "-" button for Yes, or press the "+" button for No.



4. After pressing either button, a pop-up window appears asking if the total fuel used should be reset—Fuel Used Reset?.
5. Press the "-" button for Yes, or press the "+" button for No.

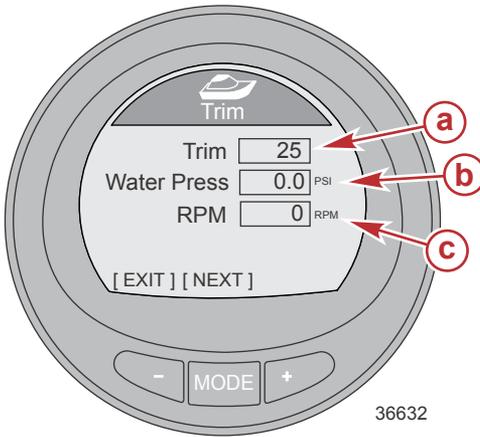


6. Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

VESSEL MENU

Trim

The Trim screen displays a number relating to the position of the trim system, the engine water pressure, and the engine RPM.



- a** - Trim position number
- b** - Water pressure
- c** - Engine RPM

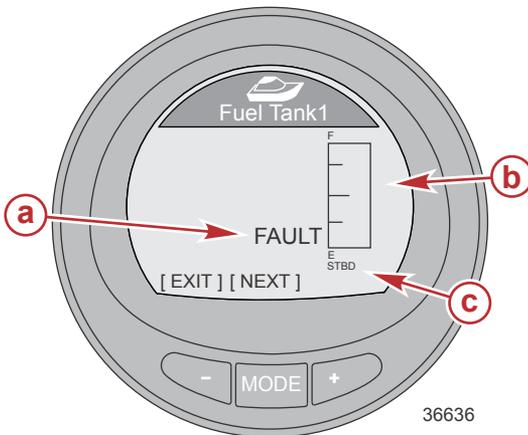
36632

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

Tanks

FUEL TANK1

The Fuel Tank1 screen displays the level of the fuel tank, the location of the fuel tank, and will display FAULT when there is a problem with the fuel tank. It can also be selected as not installed—Not inst. When selected as not installed, the Fuel Tank1 screen will not be accessible.



- a** - Fuel tank fault—
FAULT
- b** - Fuel level
- c** - Tank location

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VESSEL MENU

TANK 2

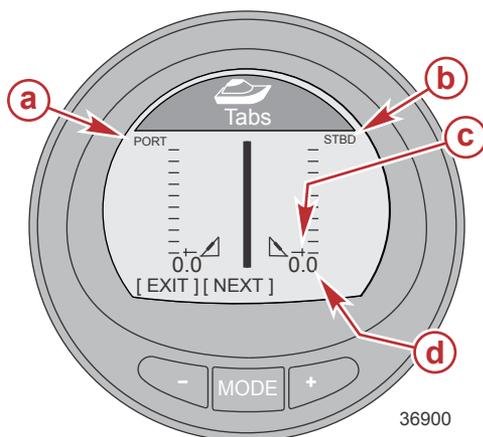
Tank 2 can be selected as not installed—Not inst, fuel, water, or waste when connected to a 4-Stroke engine. When selected as fuel, the level can be calibrated with a default setting, or by adding fuel. When selected as water or waste, the level is automatically calibrated to the default setting.

When the gauge is installed on a vessel with a 2-Stroke engine, Tank 2 will automatically default to oil.

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

Tabs

The Tabs screen displays the port tab and starboard tab position with a bar graph and numbers.



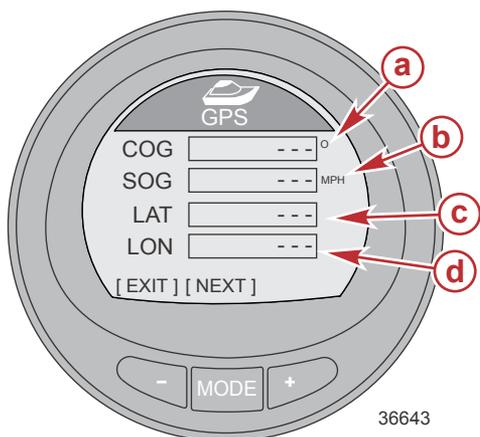
- a** - Port tab bar graph
- b** - Starboard tab bar graph
- c** - Bar graph pointer
- d** - Tab position number

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

VESSEL MENU

GPS

The GPS screen displays the course over ground—COG, speed over ground—SOG, latitude position—LAT, and longitude position—LON. A GPS must be installed for this option to display information.

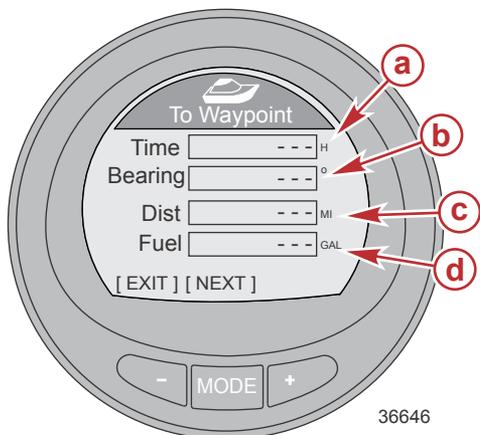


- a** - Course over ground—COG
- b** - Speed over ground—SOG
- c** - Latitude position—LAT
- d** - Longitude position—LON

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

To Waypoint

The To Waypoint screen displays the amount of time required to reach the waypoint, the compass bearing toward the waypoint, the distance to the waypoint, and the amount of fuel required to the waypoint. A GPS and chartplotter or a device capable of generating waypoints must be installed for this option to display information.



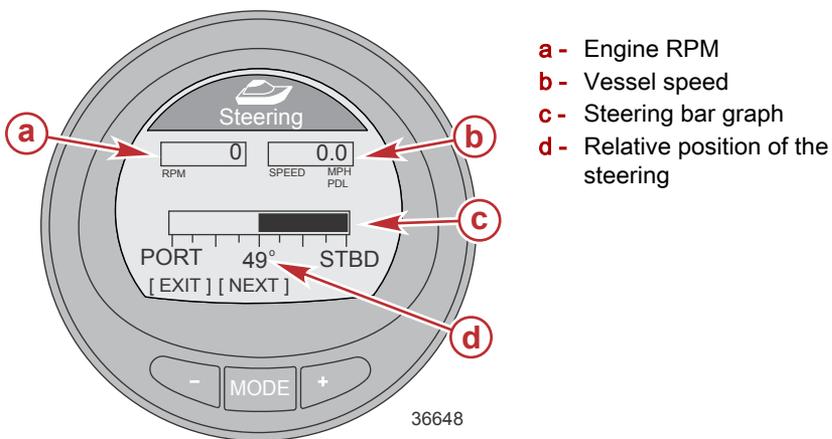
- a** - Time
- b** - Compass bearing
- c** - Distance
- d** - Fuel

VESSEL MENU

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

Steering

The Steering screen displays the engine RPM, the vessel speed, a bar graph indicating the direction of the steering PORT or STBD, and a number displayed to indicate the relative position of the steering. A steering position sensor must be installed for this screen to display the steering direction and relative position.

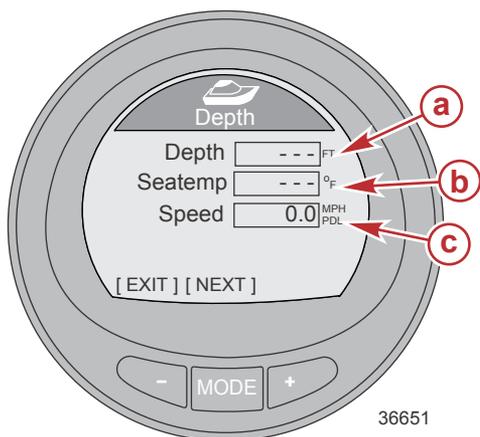


Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

VESSEL MENU

Depth

The Depth screen displays the depth of the water, the temperature of the water, and the speed of the vessel through the available sensor. The actual depth may be different from what is displayed and is dependent on the amount of offset that is programmed in the Settings menu.



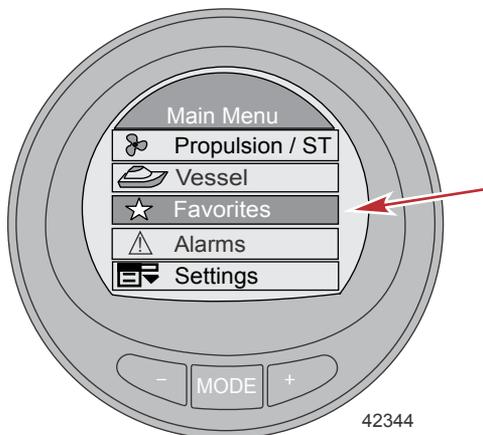
- a** - Depth
- b** - Water temperature
- c** - Vessel speed

Press the "-" button to return to the Main Menu, or press the MODE button to go to the next screen.

FAVORITE SCREENS

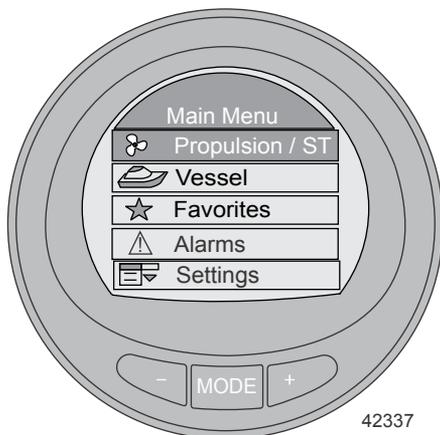
Favorites Screen Features and Options

The Favorites is an optional feature that will show specific screens selected by the operator to be reviewed quickly. The favorites will remain on the screen for a specific amount of time. This time can be one second up to 30 seconds. Up to nine favorite screens can be selected from the Propulsion menu, Vessel menu, or Full Screens menu. After selecting the screen desired to be displayed on the favorites, use the "-" or "+" button to highlight the Favorites menu option. Press the MODE button to view the favorites.



SELECTING A FAVORITE SCREEN

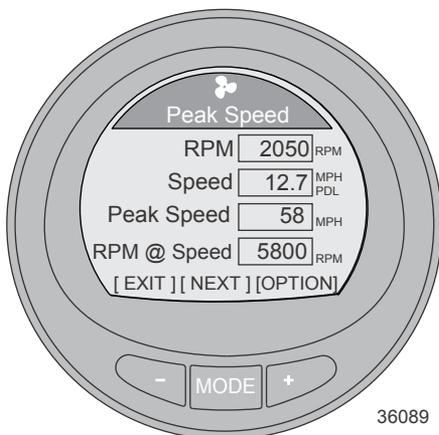
1. From the Main Menu, press the "-" or "+" button to select either the Propulsion, Vessel, or Full Screens menu.



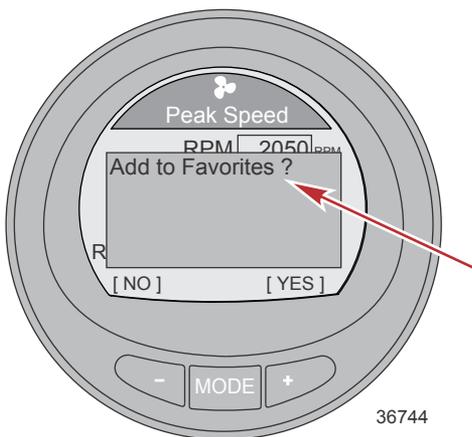
2. Press the MODE button to enter the selected menu.

FAVORITE SCREENS

3. Press the "-" or "+" button and select a screen to be a favorite.



4. Press the "-" button and the "+" button at the same time and hold the buttons in until the pop-up window appears asking to add the screen to the favorites—Add to Favorites?.



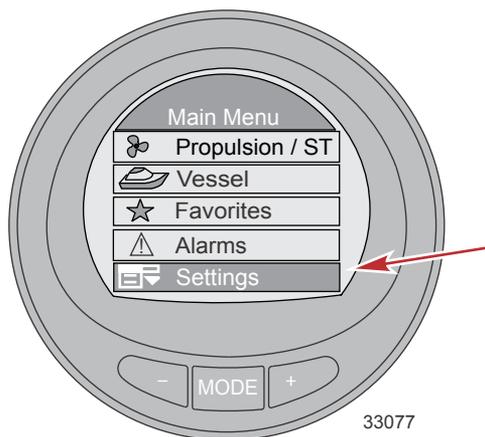
5. Press the "+" button to save the screen to the Favorites menu. If the screen is not wanted, press the "-" button to discard the screen option.
6. Press the MODE button to page through the menu to select a different screen, or press the "-" button to exit the menu and return to the Main Menu.
7. Continue the selection process for up to nine selected favorites.

FAVORITE SCREENS

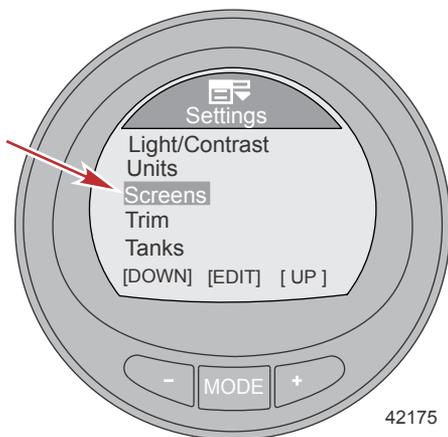
CHANGING THE FAVORITES SCREEN DURATION

The favorites individual screen will remain visible for a specific amount of time. This time can be set from one second up to 30 seconds.

1. To change the favorites screen duration, go to the Main Menu and press the "-" or "+" button to highlight the Settings menu.



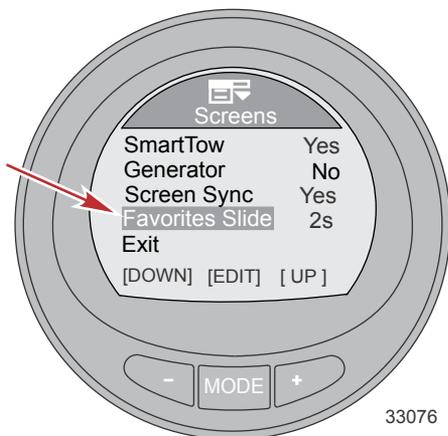
2. Press the MODE button to enter the Settings menu.
3. Press the "-" button to highlight the "Screens" menu.



4. Press the MODE button to enter the Screens menu.
5. Press the "-" or "+" button to highlight the Favorites Slide option.
6. Press the MODE button to edit the number of seconds the favorites will display.

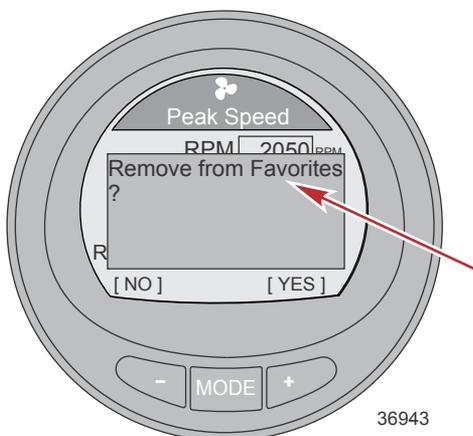
FAVORITE SCREENS

7. Press the "-" or "+" button to change the number of seconds.



DELETING A FAVORITE

1. Select the screen that is to be deleted.
2. Press the "-" button and the "+" button at the same time and hold the buttons in until the pop-up window appears asking to remove the screen from the favorites—Remove from Favorites?.



3. Press the "+" button to remove the screen from the Favorites menu. Press the "-" button to keep the screen as a favorite.
4. Press the MODE button to page through the menu to select a different screen, or press the "-" button to exit the menu and return to the Main Menu.

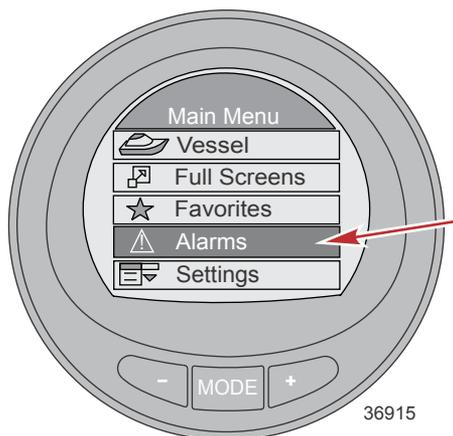
ALARMS

Alarms Screen

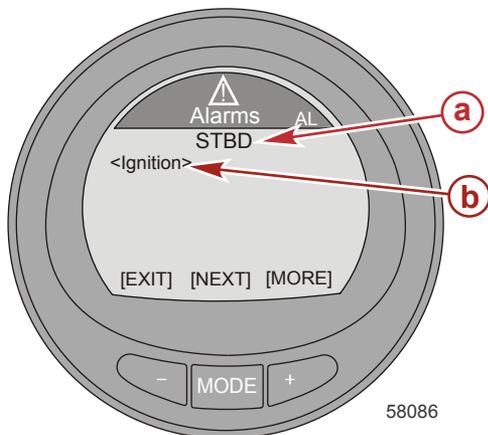
NOTE: Descriptive text alarm warning screens are displayed with 2007 and newer engines. Universal fault codes can be utilized with specific Mercury Outboard and MerCruiser products produced 2015 and newer.

The Alarms screen will display fault information. The screen displays the fault descriptive short text or the universal fault code. If available, press the "+" button to view the fault descriptive long text, and the recommended action to take. A flashing **AL** will be in the upper right side of the screen.

1. To view all system alarms while in the Main Menu, press the "-" or "+" button to highlight the Alarms menu option.
2. Press the MODE button to enter the Alarms menu option.



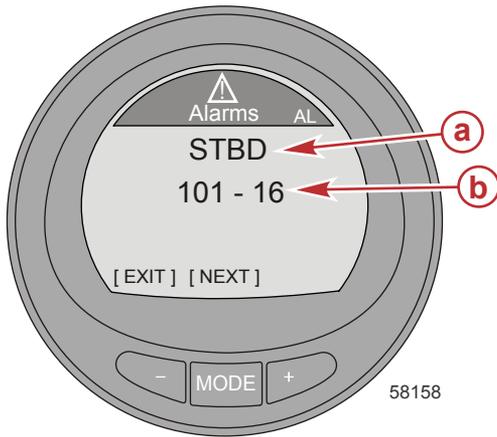
3. The screen shows the fault location, and the fault description in short descriptive text or the fault location and the universal fault code.



Example of descriptive fault text

- a - Fault location
- b - Fault description

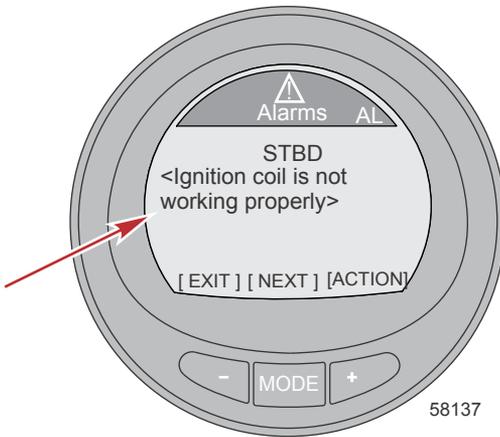
ALARMS



Example of universal fault code

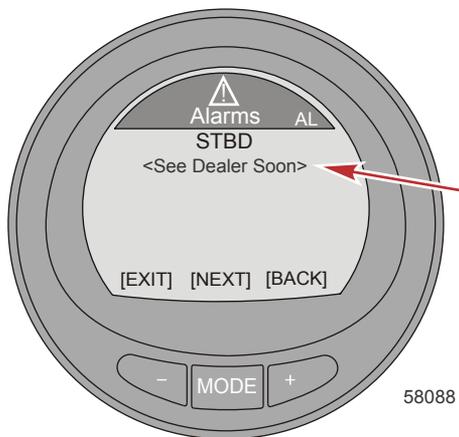
- a** - Fault location
- b** - Universal fault code

4. If the fault has descriptive text, press the "+" button to view the long descriptive text.

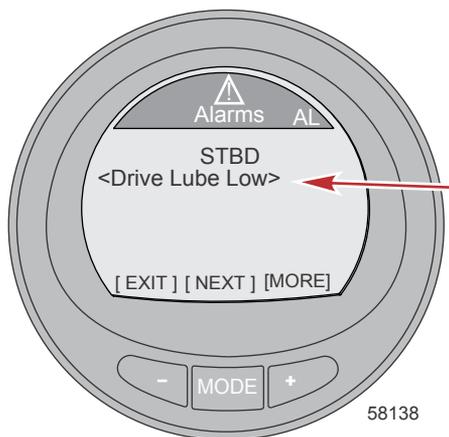


ALARMS

5. Press the "+" button to view the recommended action to take.

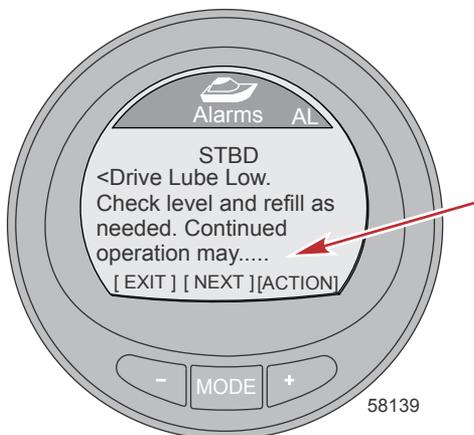


6. Press the MODE button to view the next fault text, if available.

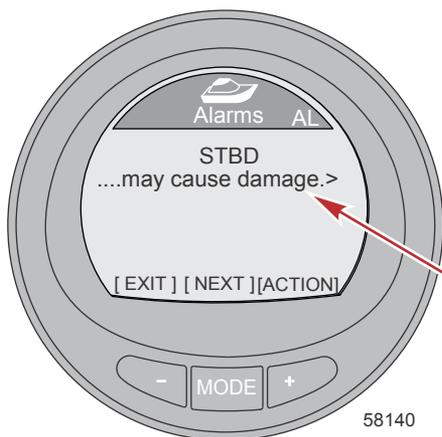


ALARMS

7. Press the "+" button to view the long descriptive text. When the long descriptive text exceeds the screen capacity, several dots at the end of the screen text will be visible.

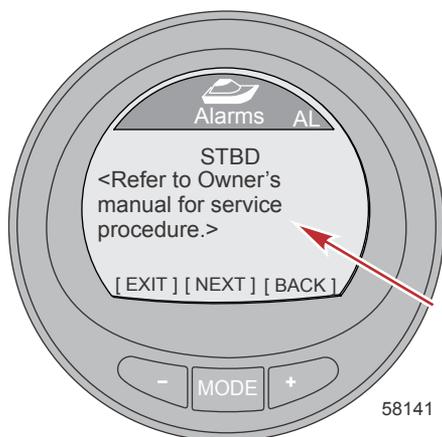


8. Press the "+" button to view the remaining long descriptive text.



ALARMS

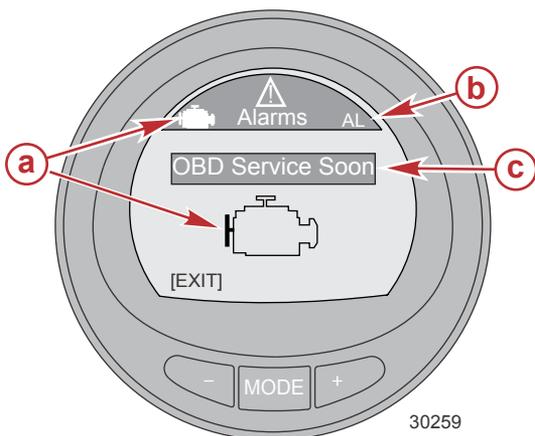
9. Press the "+" button to view the recommended action to take.



10. Press the "+" button to return to the short descriptive text fault screen, or press the MODE button to view the next alarm fault, or press the "-" button to exit the Alarms menu and return to the Main Menu.

EMISSION CONTROL ALARM WARNINGS

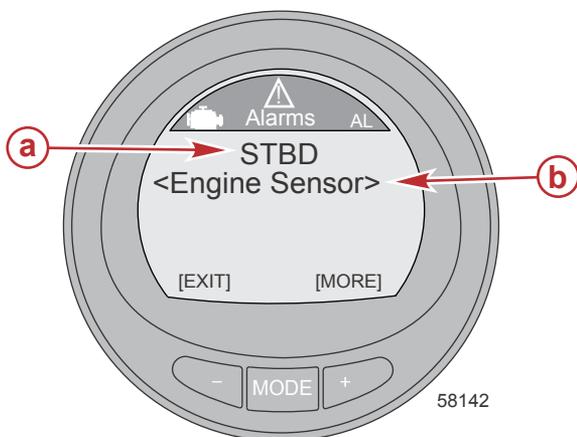
When a problem is detected with the emission control system, a pop-up window with the **AL** flashing in the upper right-hand corner, an engine icon in the upper left-hand corner, **OBD Service Soon**, and a large engine icon will be displayed on the screen. Pressing the "-" button while this screen is displayed will exit to the last screen that was on the monitor.



- a** - Engine icon
- b** - Flashing AL
- c** - OBD Service Soon

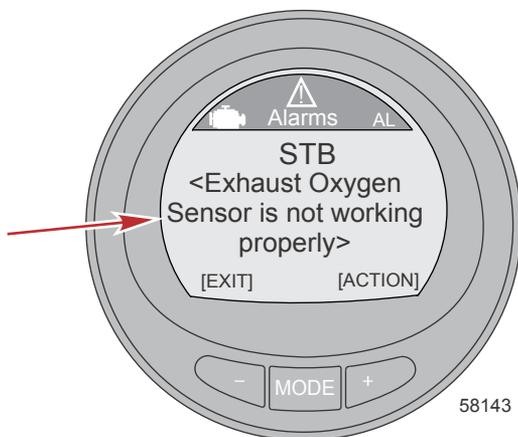
ALARMS

1. The screen displays the fault location and a description of the faulty component.



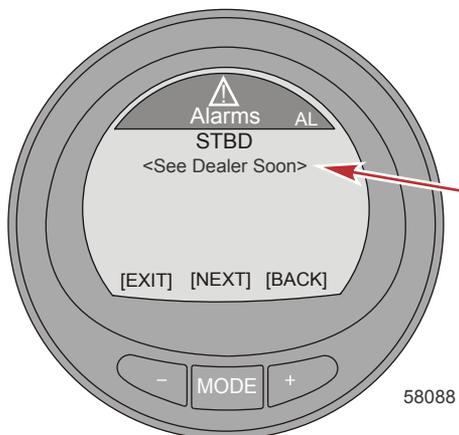
- a** - Fault location
- b** - Component

2. Press the "+" button to view a detailed description of the faulty component.

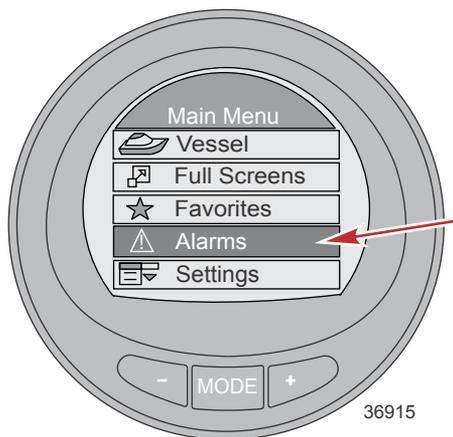


ALARMS

3. Press the "+" button to view the recommended action to take.



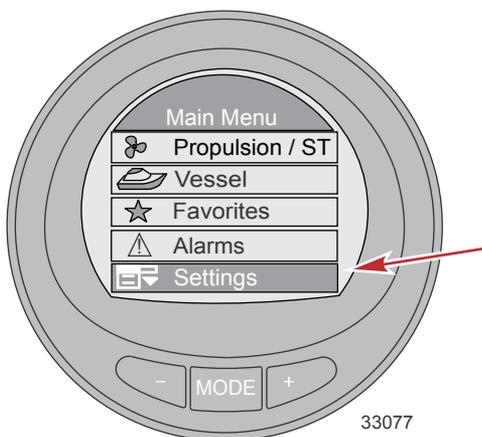
4. Press the "+" button to return to the short descriptive text fault screen, or press the MODE button to view the next alarm fault, or press the "-" button to exit the Alarms menu and return to the Main Menu.



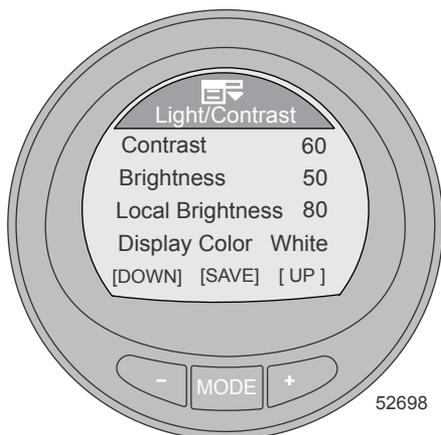
SETTINGS

Using the Light/Contrast Menu Options

1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.



2. Press the MODE button to edit the Light/Contrast menu.



LIGHT/CONTRAST MENU OPTIONS

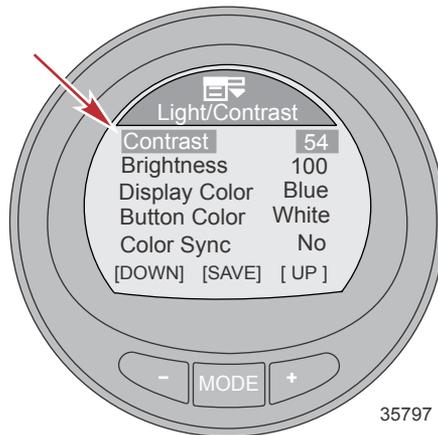
Menu Options	
Contrast	Changes the appearance of the objects in the monitor screen. The default setting is 60.
Brightness	Changes the luminance on all network connected SmartCraft gauges. The default setting is 50.

SETTINGS

Menu Options	
Local Brightness	Changes the luminance on the local gauge only. The default setting is 80.
Display Color	Changes the backlighting of the display.
Button Color	Changes the lighting of the buttons.
Color Sync	Selects the same color option for the display and button.
Remote Light	Allows another network connected monitor gauge to change the light.
Remote Contrast	Allows another network connected monitor gauge to change the contrast.
Night Time Mode	Changes the backlight dark and the letters and numbers to the selected color.

CONTRAST

1. Press the MODE button to edit the Contrast option.
2. Press the "-" or "+" button to edit the contrast level of the monitor screen.



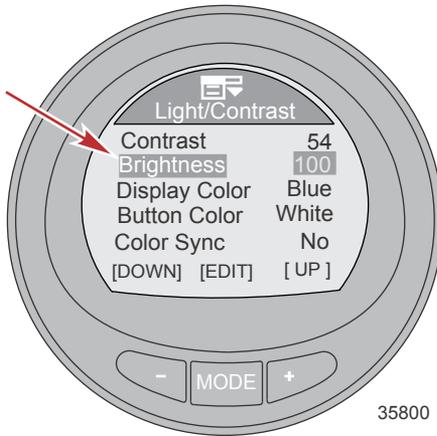
3. Press the MODE button to save the contrast setting.
4. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

BRIGHTNESS

1. Press the "-" button to highlight the Brightness option.
2. Press the MODE button to edit the brightness of the monitor screen.

SETTINGS

3. Press the "-" or "+" button to change the brightness of the monitor screen.

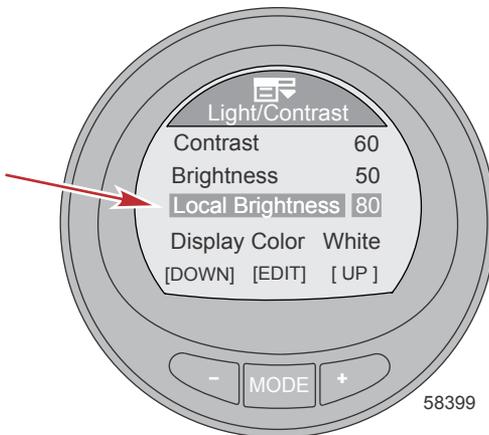


4. Press the MODE button to save the brightness setting.
5. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

LOCAL BRIGHTNESS

Local brightness changes the gauge brightness and does not affect brightness options on other gauges.

1. Press the "-" button to highlight the Local Brightness option.
2. Press the MODE button to edit the local brightness of the monitor screen.
3. Press the "-" or "+" button to change the local brightness of the monitor screen.



4. Press the MODE button to save the local brightness setting.

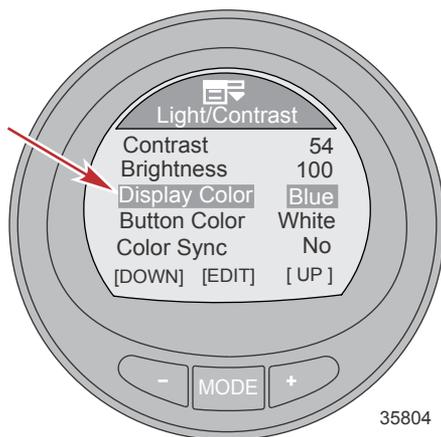
SETTINGS

5. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

DISPLAY COLOR

The display backlighting color can be changed to red, blue, green, white, yellow, purple, and ice blue. All the backlighting colors can be selected to be displayed for approximately 15 seconds each. After the 15 seconds, the color will fade and change into the next color. This is referred to as the color Wave.

1. Press the "-" button to highlight the Display Color option.
2. Press the MODE button to edit the display color of the backlighting screen.
3. Press the "-" or "+" button to select a color, or select Wave for the color of the backlighting screen.



4. Press the MODE button to save the display color setting.
5. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

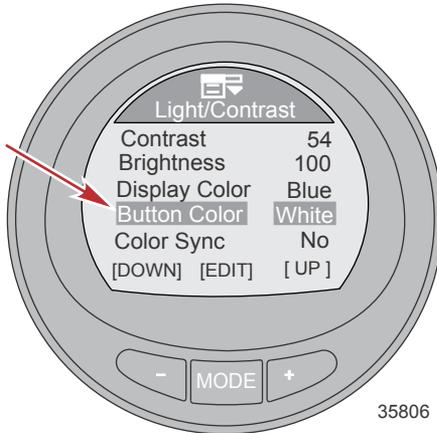
BUTTON COLOR

The "-", "+," and "MODE" button light color can be changed to red, blue, green, white, yellow, purple, and ice blue. All of the button colors can be selected to be displayed for approximately 15 seconds each. After the 15 seconds, the color will fade and change into the next color. This is referred to as the color Wave.

1. Press the "-" button to highlight the Button Color option.
2. Press the MODE button to edit the button colors.

SETTINGS

3. Press the "-" or "+" button to select a color, or select Wave for the color of the buttons.

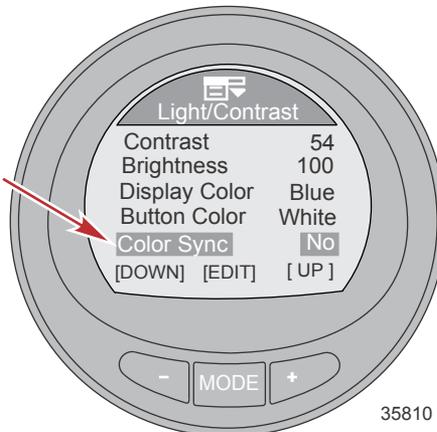


4. Press the MODE button to save the button color setting.
5. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

COLOR SYNC

The Color Sync feature selects the same color for the backlight and the buttons. Turning the color synchronize on—Yes, turns the Button Color control feature off.

1. Press the "-" button to highlight the Color Sync option.
2. Press the MODE button to turn the option on—Yes, or turn the option off—No.



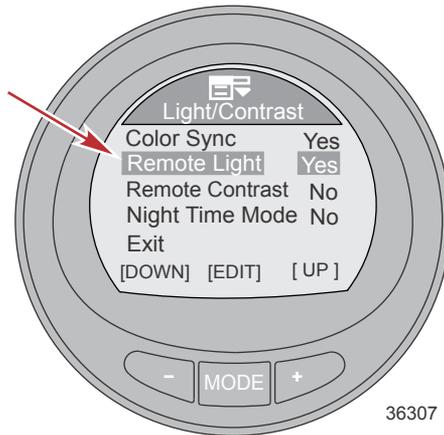
SETTINGS

3. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

REMOTE LIGHT

The Remote Light feature allows control of all the monitor gauge lighting from any monitor gauge. This feature controls the brightness, display color, button color, and night time mode. Two or more monitor gauges must have this feature turned on for the remote light feature to function.

1. Press the "-" button to highlight the Remote Light option.
2. Press the MODE button to turn the option on—Yes, or turn the option off—No.



3. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

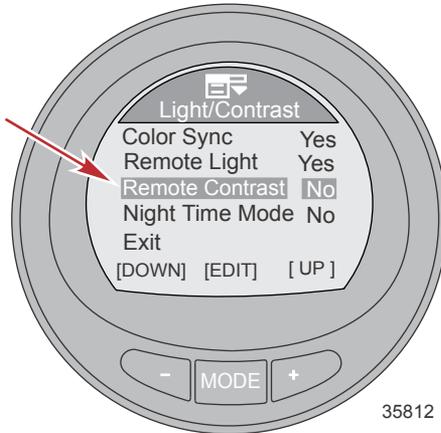
REMOTE CONTRAST

The Remote Contrast feature allows control of the monitor gauge contrast from any monitor gauge. This feature controls only the contrast. Two or more monitor gauges must have this feature turned on for the remote contrast feature to function.

1. Press the "-" button to highlight the Remote Contrast option.

SETTINGS

2. Press the MODE button to turn the option on—Yes, or turn the option off—No.

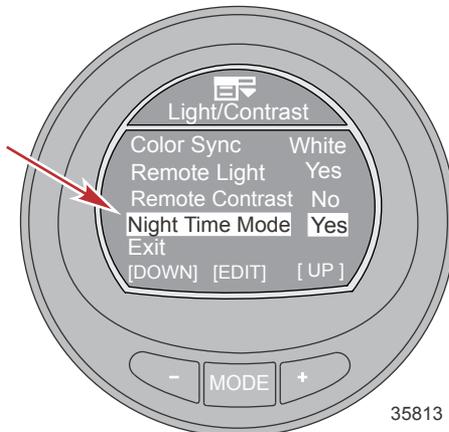


3. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

NIGHT TIME MODE

Night Time Mode darkens the monitor screen, turning the letters and numbers to the color selected. This mode when turned on, significantly decreases the amount of backlighting on the gauge.

1. Press the "-" button to highlight the Night Time Mode option.
2. Press the MODE button to turn the option on—Yes, or turn the option off—No. A third option automatically—AUTO, selects the Night Time Mode when the ambient light conditions fade.



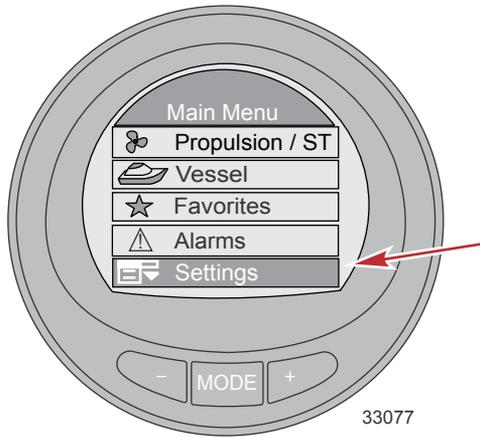
SETTINGS

3. To exit the Light/Contrast menu, press the "-" or "+" button to highlight the Exit option. Press the MODE button to exit the Light/Contrast menu.

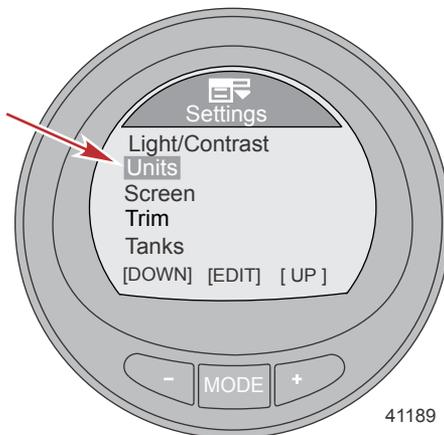
Units

The Units menu option changes the display units of measurement to English—Eng, or metric—Met, and the speed display to miles per hour—MPH, kilometers per hour—KMH, or knots—KN.

1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.
2. Press the MODE button to enter the Settings menu.

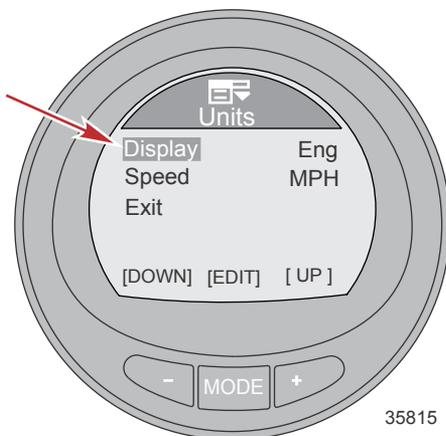


3. Press the "-" button to highlight the Units menu.
4. Press the MODE button to edit the Units menu.



SETTINGS

5. Press the MODE button to change the display units to English—Eng, or metric—Met.



6. Press the "-" button to highlight the Speed unit.
7. Press the MODE button to change the speed units to miles per hour—MPH, kilometers per hour—KMH, or knots—KN.
8. Press the "-" button to highlight the Exit option. Press the MODE button to exit the Units menu.

Screens

Within the Screens menu, screens can be turned off or on. The Full Screens submenu has ten full screens that can be turned off or on. Additionally within the Full Screens submenu, there are up to five Tri Data screens and Double Screen that are user modified. Screens that are turned off or on also have a direct relation to the various screens in the propulsion and vessel menus, and are dependent on the power package installed that supports the different sensors.

SETTINGS

- Full screens
 - Speed
 - Depth
 - Air Temperature
 - Coolant Temperature
 - Clock—analog or digital
 - Oil Temperature
 - Fuel Pressure
 - Oil Pressure
 - Water Pressure
 - Maintenance
- Tri Data
- Double screen
- System check
- Analog RPM
- Analog speed
- Trim and RPM
- Peak speed
- Water information
- Oil information
- Oil Level
- Fuel pressure
- Volts and hours
- Fuel used
- Depth
- Steering position
- Boost pressure
- Tabs
- GPS data
- Waypoint
- Active Trim
- Sport Exhaust
- Troll control
- Smart Tow
- Generator
- Screen synchronize
- Favorites slides

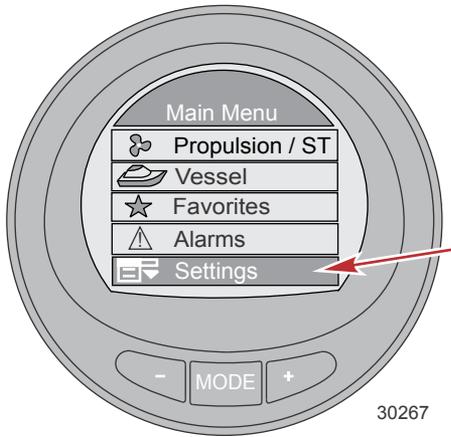
Turning the Screens On

FULL SCREENS OPTIONS

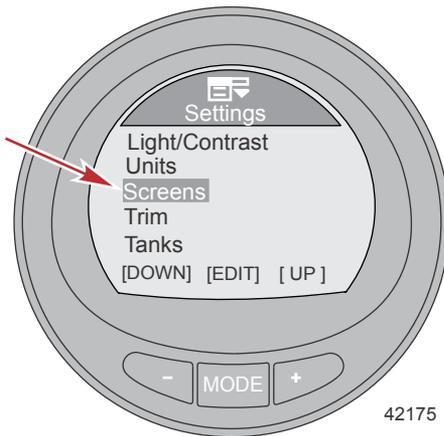
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.

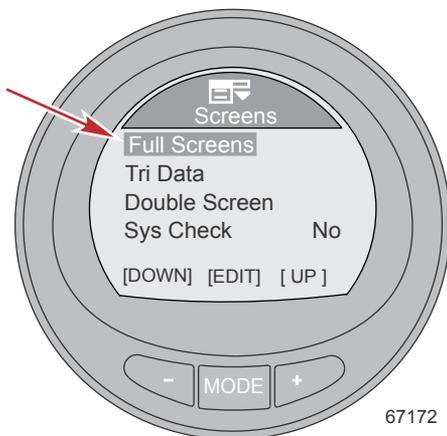


3. Press the "-" button to highlight the Screens menu.
4. Press the MODE button to edit the Screens menu.



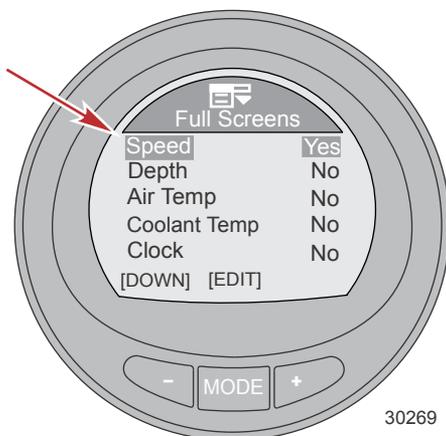
SETTINGS

5. Press the MODE button to edit the Full Screens menu.



Full Screen Options	
Speed	Oil Temp
Depth	Fuel Pressure
Air Temp	Oil Pressure
Coolant Temp	Water Pressure
Clock	Maintenance
Active Trim	Sport Exhaust
Oil Level	

6. Press the MODE button to turn the Speed option on—Yes, or off—No.



SETTINGS

7. Use the "-" or "+" button to select each option and use the MODE button to turn the option on—Yes, or off—No.

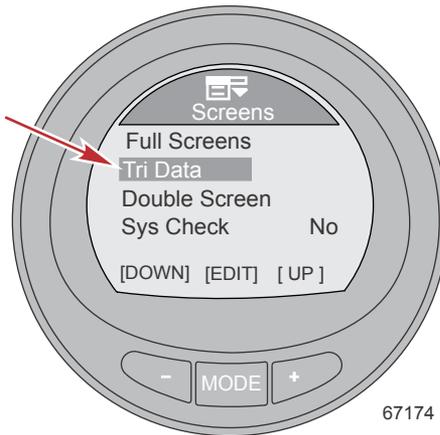
NOTE: The last option is Maintenance. This screen option must be turned on—Yes, to monitor the 100 hour maintenance schedule.

8. Press the "-" button to highlight the Exit option.
9. Press the MODE button to exit the Full Screens option.

TRI DATA

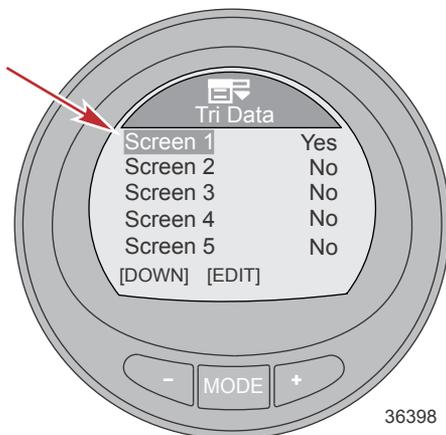
There are five Tri Data screens available. The first Tri Data screen is turned on by default. Each can be turned on and modified with user selected information.

1. Press the "-" button to highlight the Tri Data option.
2. Press the MODE button to edit the Tri Data screens.



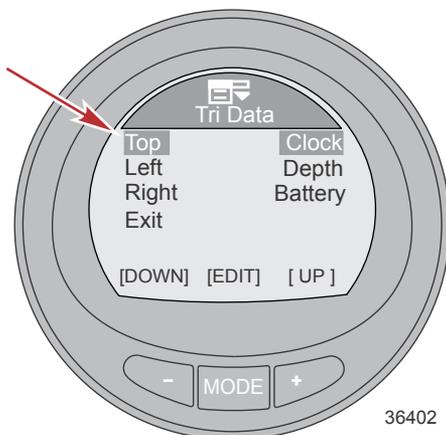
SETTINGS

3. The first Tri Data screen is turned on—Yes, by default. To edit Screen 1, press the MODE button twice.



4. Press the MODE button to edit the Top screen option.
5. Press the "-" or "+" button to change the Top data information.

NOTE: The information available for the Top, Left, and Right Tri Data is: Hours, Clock, Depth, Fuel, RPM, Speed, Coolant Temp, Oil Temp, Seatemp, Water Press, Oil Press, Trim, Fuel Flow, and Battery.



6. Press the MODE button to exit the Top screen data option.
7. Use the buttons to highlight and edit the remaining selection.
8. Highlight Exit to edit Screen 2.
9. Press the MODE button to turn Screen 2 on—Yes, and to edit the available data. Complete the process as explained in previous steps for additional Tri Data screens.

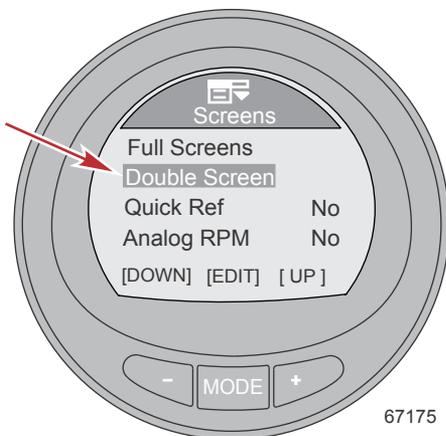
SETTINGS

- When finished with the Tri Data screens, press the "-" button to highlight the Exit option. Press the MODE button to exit the Full Screens menu.

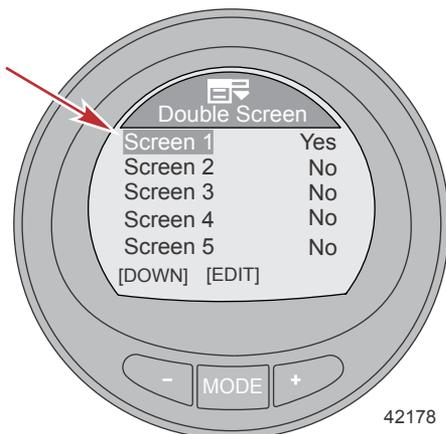
DOUBLE SCREEN

There are five Double Screen options available. The first screen is turned on by default. Each can be turned on and modified with user selected information.

- While in the Screens menu, press the "-" button to highlight the Double Screen menu.
- Press the MODE button to edit the Double Screen option.



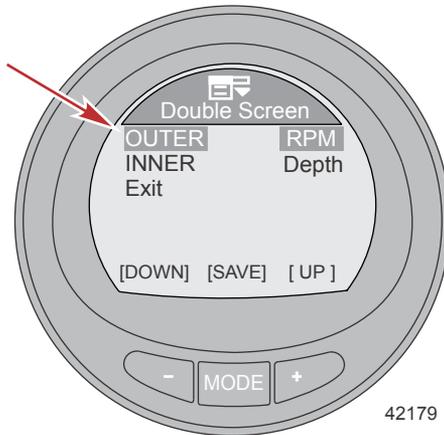
- The first screen is turned on—Yes, by default. To edit Screen 1, press the MODE button twice.



- Press the MODE button to edit the OUTER screen data option.
- Press the "-" or "+" button to change the OUTER data information.

SETTINGS

NOTE: The information available for the OUTER 2nd INNER Double Screen is: RPM, Speed, Coolant Temp, Oil Temp, Seatemp, Water Press, Oil Press, Fuel Flow, Fuel, Battery, and Depth.



6. Press the MODE button to save the OUTER screen data option.
7. Use the "-" or "+" buttons to highlight and edit the INNER screen data option.
8. Highlight the Exit option to go to Screen 2.
9. Press the MODE button to turn Screen 2 on—Yes, and to edit the available data. Complete the process explained previously for additional Double Screen options.
10. When finished with the Double Screen options, press the "-" button to highlight the Exit option. Press the MODE button to exit the Double Screen menu.

ADDITIONAL SCREENS OPTIONS

Use the "-" and "+" buttons to navigate through the additional screen options. Use the MODE button to turn the options on—Yes, or off—No.

Optional Screens	
System Check —Sys Check	Displays the overall condition of important sensors and battery voltage after the ignition key is turned on.
Analog RPM	Displays the engine RPM with a sweeping pointer.
Analog Speed	Displays the vessel speed with a sweeping pointer. Two different ranges are available; 0–80 or 0–120 as knots, kilometers per hour, or miles per hour.
Trim/RPM	Displays the trim position, shows the engine cooling water pressure—if equipped with sensor, and the engine RPM.

SETTINGS

Optional Screens	
Peak Speed	Displays the engine RPM, vessel speed through the active sensor, the peak vessel speed, and what the engine RPM was at that peak vessel speed.
Water Information	Displays the engine RPM, vessel speed through the active sensor, coolant temperature, and water pressure.
Oil Information	Displays the engine RPM, vessel speed through the active sensor, oil temperature, and oil pressure.
Oil Level	Displays the oil level in the oil sump when the key is switched on. The engine package must have an electronic dipstick installed on the engine.
Fuel Pressure	Displays the engine RPM, fuel pressure, and amount of fuel that is currently used per hour—power package dependent.
Volts/Hours	Displays the total hours the engine has run, the battery current state of charge, and the engine RPM.
Fuel Used	Displays the amount of fuel that is currently used per hour, and the amount of fuel that has been used.
Depth	The depth screen must be turned on to enable the depth alarms.
Steering	Displays the position of the drive or rudder—power package dependent.
Boost Pressure	Displays the engine RPM, the vessel speed through the active sensor, and the amount of manifold pressure—Power package dependent.
Tabs	Displays the position of the port and starboard tabs.
GPS Data	Displays the course over ground, speed over ground, latitude position, and longitude position. A GPS must be installed.
Waypoint	Displays the amount of time to the waypoint, the compass bearing toward the waypoint, the distance to the waypoint, and the amount of fuel required to the waypoint. A GPS must be installed.
Troll Control	Displays an icon to indicate the troll control is turned on or off. It can be controlled with the vessel speed through the active sensor or with the engine RPM—power package dependent. <i>NOTE: This option is not accessible when the power package is not capable of troll control.</i>
Smart Tow	Displays an icon to indicate Smart Tow is turned on or off. Smart Tow can be RPM or speed controlled.

SETTINGS

Optional Screens	
Active Trim	Displays the status of Active Trim—ON or OFF. Allows the operator to select one of five trim profiles. A GPS unit must be installed on the communication network for Active Trim to function.
Sport Exhaust	Engines equipped with the Sport Exhaust feature will display a screen in which the operator can select either ON or OFF.
Generator	Displays the AC voltage, the hertz frequency, the generator location or name, and the generator running hours. Must be connected to the gateway network. NOTE: <i>The MercMonitor must be set to receive to edit this option. A generator capable of sending data on the J1939 gateway network must be installed to monitor this option.</i>
Screen Sync	Allows multiple similar gauges to be synchronized for color, light, and contrast levels. All gauges must have this feature turned on to function.
Favorites Slide	NOTE: <i>The favorites slide seconds must be displayed for the favorites screen transition to function. Select from 1–30 seconds to display the selected favorites. When the seconds are set to OFF, the favorites screen must be advanced manually using the mode button.</i>

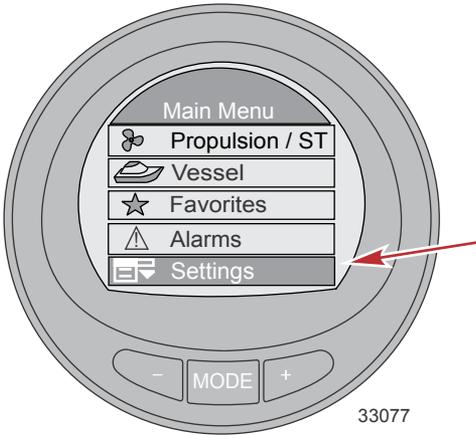
Trim

Editing the trim settings menu allows you to turn the trim pop-up on or off, change the length of time the pop-up window remains on the screen, turn the high resolution on or off, and calibrate the gauge to the sensor. A high resolution setting will cause the monitor to display the trim position with more detailed information.

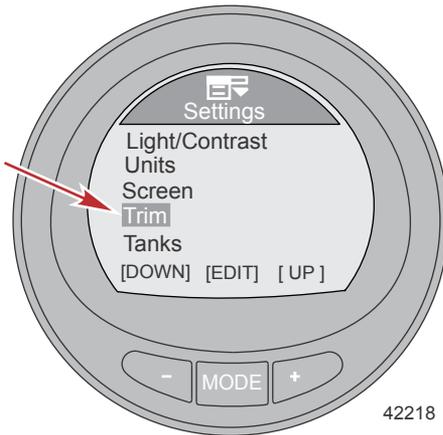
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.



3. Press the "-" button to highlight the Trim menu.
4. Press the MODE button to edit the Trim menu.



5. Press the MODE button to turn the trim pop-up window option on—Yes, or off—No.
6. Press the "-" button to highlight the High Resol option.
7. Press the MODE button to turn the high resolution option on—Yes, or off—No.
8. Press the "-" button to highlight the Pop-up Time option.
9. Press the MODE button to edit the length of time the trim pop-up window option remains on the screen.

SETTINGS

10. Press the "-" or "+" button to change the length of time the trim pop-up window option remains on the screen. The trim pop-up window length of time can be changed from 1–10 seconds.
11. Press the MODE button to exit the Pop-up Time option.
12. Press the "-" button to highlight the Calibration option.
13. Press the MODE button to calibrate the gauge to the trim position sensor. An instruction window will pop-up stating to trim full down and press the "+" button when ready.
14. After pressing the "+" button, the pop-up window instructions will change stating to trim full up and press the "+" button when ready.

IMPORTANT: To achieve accurate trim full up calibration, this must be performed on the water while the vessel is running at cruising speed. While at cruising speed, trim up to the maximum trim angle before the vessel begins to porpoise, then press the "+" button.

15. After pressing the "+" button, the pop-up window instructions will change stating to trim to the trailer point and press the "+" button when ready.
16. Press the "+" button to return to the Calibration option.
17. Press the "-" button to highlight the Exit option. Press the MODE button to return to the Settings menu.
18. Press the "-" button to highlight the Exit option. Press the MODE button to return to the Main Menu screen.

Tanks

There are two tanks available for each power package installed on the vessel. Tank number 1 can be designated as not installed—Not inst, or fuel. When Not inst is selected, the options for setting the tank capacity and the calibration cannot be edited. The maximum fuel capacity is 2271 liter (600 US gal). The second tank can be designated as not installed—Not inst, water, fuel, or waste on 4-stroke engines and will automatically default to oil if the gauge is installed on a vessel with a 2-stroke engine.

Two different methods are available to calibrate the tanks. For linear shaped fuel tanks, choose Default Calibration. Default Calibration assumes the tank is uniformly shaped and that each quarter of the tank holds a quarter of its total capacity. Water and waste tanks are typical to this linear shape tank and are automatically set to the Default Calibration. For irregularly shaped fuel tanks, choose Add Fuel Method. Fuel must be added to the tank for each quarter of the capacity when using this method. The Add Fuel Method should be performed with the vessel in the water for an accurate representation of the tank capacity.

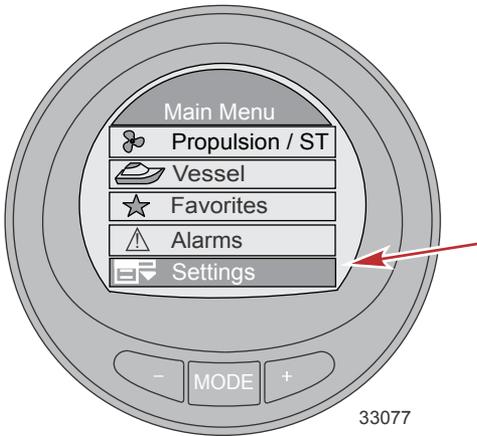
NOTE: Tank capacity must be calibrated by either the Default Calibration, or Add Fuel Method, or the capacity will revert back to its former value.

TANK 1

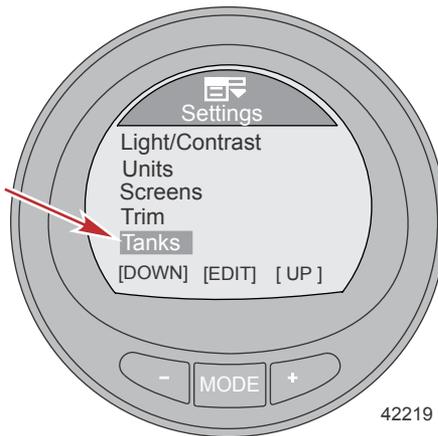
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.



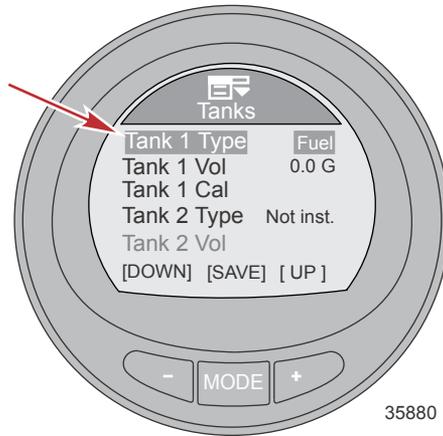
3. Press the "-" button to highlight the Tanks menu.
4. Press the MODE button to edit the Tanks menu.



5. Press the MODE button to edit the Tank 1 Type option.

SETTINGS

6. Press the "-" or "+" button to change the tank setting.



7. Press the MODE button to exit the Tank 1 Type option.
8. Press the "-" button to highlight the Tank 1 Vol capacity.
9. Press the MODE button to edit the capacity.
10. Press the "-" or "+" button to change the capacity of the tank. Holding the button down will scroll through the numbers.
11. Press the MODE button to exit the Tank 1 Vol option.
12. Press the "-" button to highlight the Tank 1 Cal option.
13. Press the MODE button to select the type of calibration.

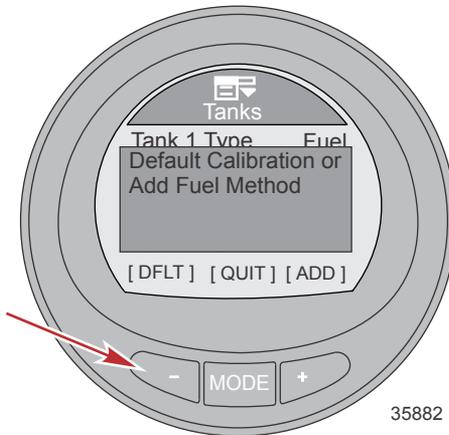
NOTE: The maximum capacity is 2271 liter (600 US gal).

Two different methods are available to calibrate the tanks: For linear shaped fuel tanks, choose Default Calibration. Default Calibration assumes the tank is uniformly shaped and that each quarter of the tank holds a quarter of its total capacity. Water and waste tanks are typical to this linear shape tank. For irregularly shaped fuel tanks, choose Add Fuel Method. Fuel must be added to the tank for each quarter of the capacity when using this method. The Add Fuel Method should be performed with the vessel in the water for an accurate representation of the tank capacity.

NOTE: The following procedure is used for the Default Calibration method.

SETTINGS

14. Press the "-" button to choose the Default Calibration method or press the MODE button to quit the calibration.



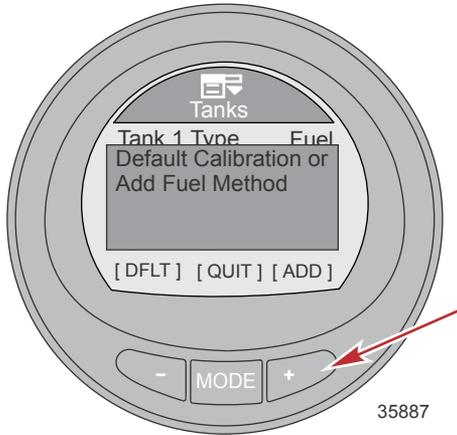
15. Press the MODE button to finish—OK, and exit the Tank 1 Cal option.



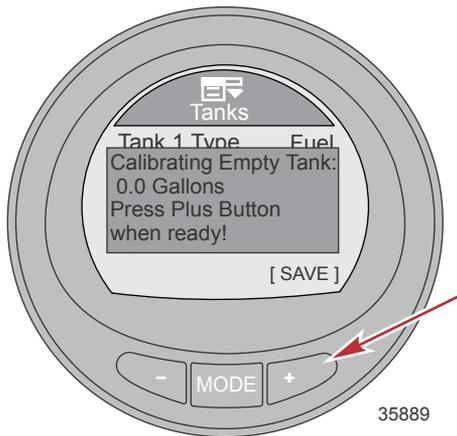
NOTE: The following procedure is used for the Add Fuel Method of calibration.

SETTINGS

16. Press the "+" button to choose the Add Fuel Method or press the MODE button to quit the calibration.

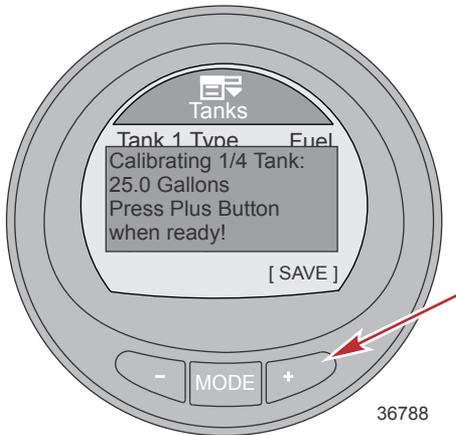


17. Press the "+" button to save and edit the Add Fuel Method of calibration.

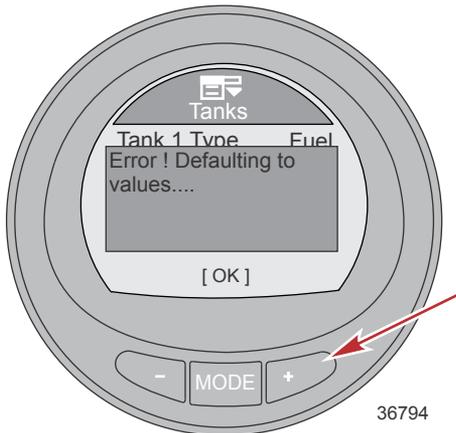


SETTINGS

18. Add 25 percent of the fuel capacity to the empty fuel tank. The gauge will list the quantity of fuel to add for each quarter. Press the "+" button to save the calibration.

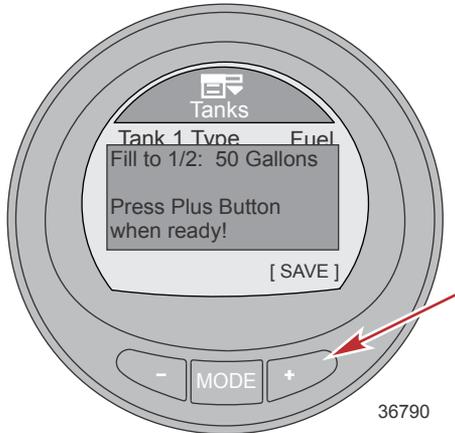


19. The fuel level sensor must change a minimal value when adding fuel. If the fuel level sensor does not change to the minimal value any time during the add fuel calibration, an error message stating the calibration is defaulting to values—Error! Defaulting to values... will be visible on the screen. The manual calibration process will stop when the error message appears. The fuel tank must be emptied and the manual calibration process must be repeated.

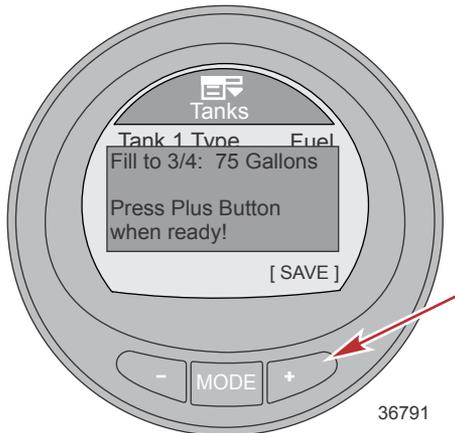


SETTINGS

20. Add 25 percent more fuel capacity to the fuel tank. Press the "+" button to save the calibration.

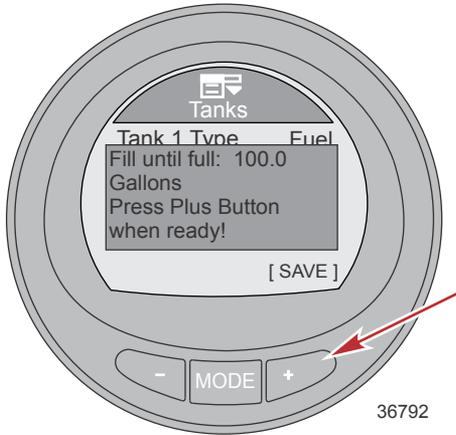


21. Add 25 percent more fuel capacity to the fuel tank. Press the "+" button to save the calibration.

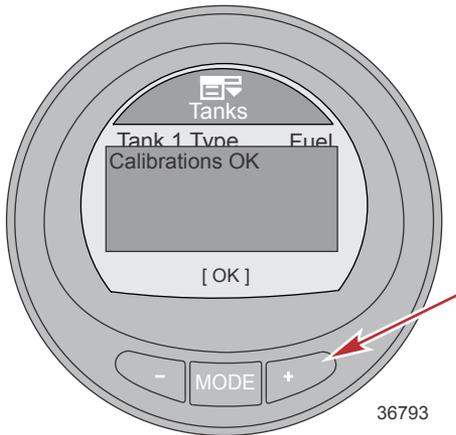


SETTINGS

22. Add 25 percent more fuel capacity to fill the fuel tank. Press the "+" button to save the calibration.



23. The screen on the monitor will state the fuel tank calibrations is successful —Calibrations OK.



24. Press the MODE button to exit the calibration process.
25. Press the "-" button to edit the Tank 2 Type option.

SETTINGS

TANK 2

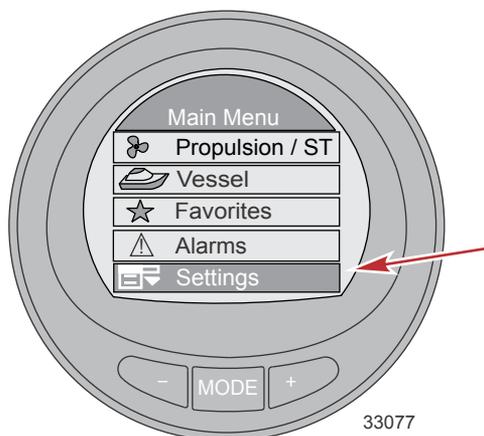
The second tank can be designated as not installed—Not inst, water, fuel, or waste when installed on a vessel with a 4-stroke engine. The maximum fuel capacity is 2271 liter (600 US gal). When the tank is designated as water or waste, the calibration is automatically selected as default and will estimate the level based on a linear shape capacity and the calibration cannot be edited. When fuel is selected for tank 2, the calibration methods are the same as tank 1. Choose between the Default Calibration method or Add Fuel Method.

When the gauge is installed on a vessel with a 2-stroke engine, the second tank will default to oil automatically and cannot be calibrated.

Alarms

Alarm settings can be customized to the vessel specifications and to the preference of the owner. Low fuel and critical fuel levels cannot be disabled, but can be adjusted to the preference of the owner. These levels can be adjusted down to 10 percent of the fuel tank volume. The shallow water depth, deep water depth, and waypoint distance alarms can be turned off or on. The shallow water depth alarm can be adjusted to 0.1 m (0.3 ft) and the deep water depth alarm can be adjusted to 300 m (984 ft). The pop-up alarm warning for these settings can be turned off or on. Vessels equipped with a generator that is J1939 compatible can have these alarms turned off or on.

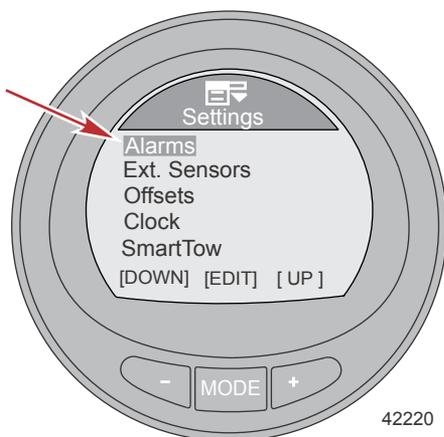
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.
2. Press the MODE button to enter the Settings menu.



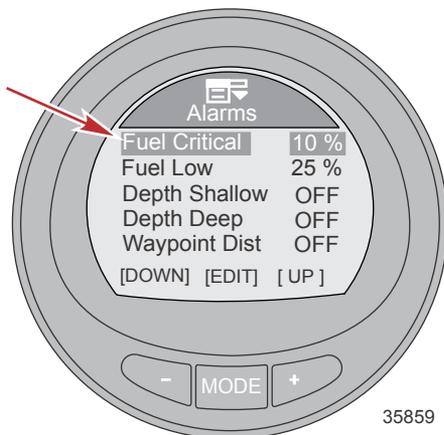
3. Press the "-" button to highlight the Alarms menu.

SETTINGS

4. Press the MODE button to edit the Alarms menu.



5. Press the MODE button to enter the Fuel Critical option.
6. Press the "-" or "+" button to edit the Fuel Critical percentage. This percentage cannot be set lower than 10, or more than the Fuel Low alarm setting.



7. Press the MODE button to exit the Fuel Critical option.
8. Press the "-" button to highlight the Fuel Low option.
9. Press the MODE button to enter the Fuel Low option.
10. Press the "-" or "+" button to edit the Fuel Low percentage. This percentage cannot be set lower than 10, or more than 50 percent.
11. Press the MODE button to exit the Fuel Low option.
12. Press the "-" button to highlight the Depth Shallow option.

SETTINGS

13. Press the MODE button to enter the Depth Shallow option.
14. Press the "-" or "+" button to edit the Depth Shallow option. The minimum setting is 0.1 m (0.3 ft) and the maximum setting is 100 m (328 ft).
15. Press the MODE button to exit the Depth Shallow option.
16. Press the "-" button to highlight the Depth Deep option.
17. Press the MODE button to enter the Depth Deep option.
18. Press the "-" or "+" button to edit the Depth Deep option. The minimum setting is 0.2 m (0.7 ft) and the maximum setting is 300 m (984 ft).

NOTE: *The minimum setting can be set to 0.1 m (0.3 ft) when the Depth Shallow is set to OFF.*

19. Press the MODE button to exit the Depth Deep option.
20. Press the "-" button to highlight the Waypoint Dist option.

NOTE: *A chartplotter and GPS must be installed to monitor this option.*

21. Press the MODE button to enter the Waypoint Dist option.
22. Press the "-" or "+" button to edit the Waypoint Dist option. The minimum setting is 161 m (0.1 mile) and the maximum setting is 482 m (0.3 mile).
23. Press the MODE button to exit the Waypoint Dist option.
24. Press the "-" button to highlight the Generator option.

NOTE: *The MercMonitor must be set to Receive to edit this option. The generator must be capable of sending data on the J1939 gateway to monitor this option.*

25. Press the MODE button to turn the Generator option on—Yes, or off—No.
26. Press the "-" button to highlight the Pop-up option.

NOTE: *HVAC System is not available at this time.*

27. Press the MODE button to turn the Pop-up option on—Yes, or off—No.
28. Press the "-" button to highlight the Exit option. Press the MODE button to exit the Alarms menu.

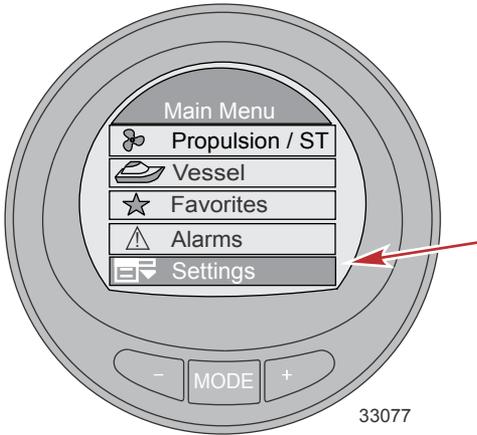
External Sensors

The External Sensors menu turns a number of sensors off or on. These include sea temperature, trim, GPS, speed, steering, and tabs. The external sensors menu also can change how the speed is recognized; pitot, paddle wheel, GPS, and at what speed the transition to a different sensor occurs. The type of pitot sensor can be changed from 689 kPa (100 psi) for most vessel applications, to a high-speed 1379 kPa (200 psi) sensor. A high-speed sensor must be installed for an accurate speed to be displayed when the 1379 kPa (200 psi) is selected.

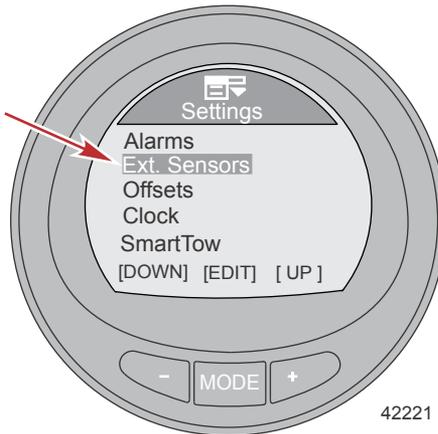
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.

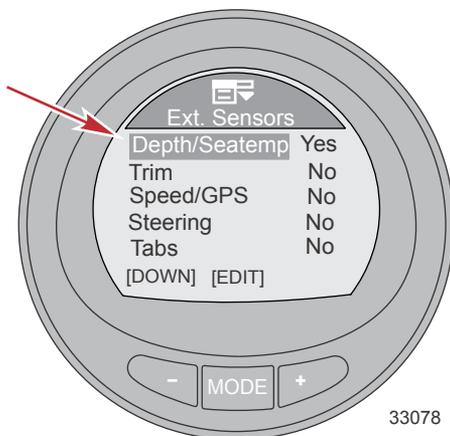


3. Press the "-" button to highlight the Ext. Sensors menu.
4. Press the MODE button to edit the Ext. Sensors menu.



SETTINGS

5. Press the MODE button to turn the Depth/Seatemp option on—Yes, or off—No.



6. Use the "-" or "+" button to highlight the options and use the MODE button to turn the option on—Yes, or off—No.

NOTE: The Tabs option must be on—Yes, for the Tabs Source to be activated. The Tabs screen must be turned on in the Screens menu to view tab information. The Tabs Source will default to the engine location the gauge is set up to monitor. The engine location can be changed to starboard—STBD, port—PORT, starboard 2—STB2, port 2—PRT2.

7. Press the "-" button to highlight the Exit option. Press the MODE button to exit the Ext. Sensors menu.

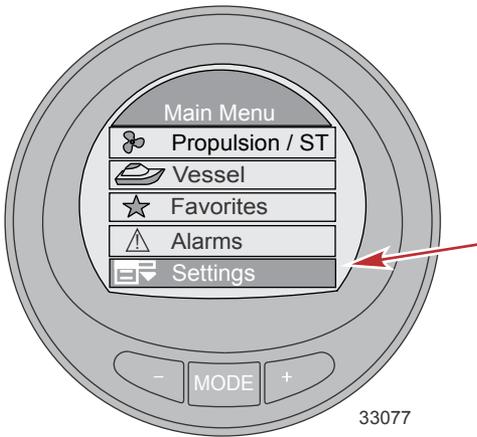
Offsets

The Offsets menu allows for compensation for inaccurate sensors, sets a transition speed from one speed sensor to another, inverts a steering sensor, and corrects the amount of fuel used. Sensors that can be modified are; sea temperature, depth, paddle wheel hertz, pitot pressure, and steering position.

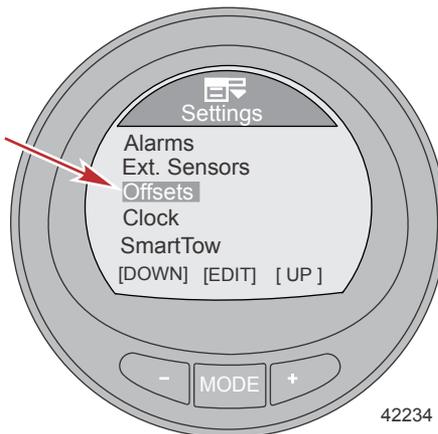
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.



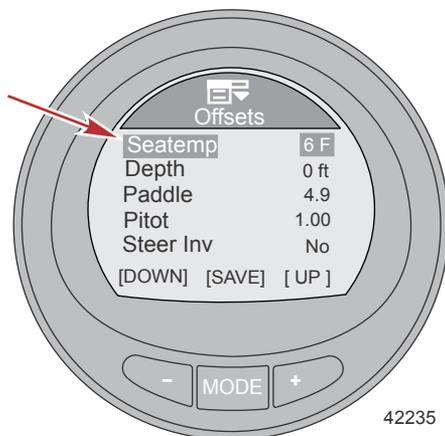
3. Press the "-" button to highlight the Offsets menu.
4. Press the MODE button to edit the Offsets menu.



5. Press the MODE button to edit the Seatemp option.

SETTINGS

6. Press the "-" or "+" button to change the sea temperature correction from -23.3 to -12.2 °C (-10 to 10 °F).



7. Use the "+" or "-" button to highlight the options and use the MODE button to turn the option on—Yes, or off—No.

NOTE: The Multiplier is used to fine-tune the fuel gauge sender to correct for fuel used errors. If the gauge indicates that 10 gallons of fuel was used, but the actual fuel that was added is 14 gallons, change the multiplier to 1.40. If the gauge indicates that 10 gallons of fuel was used, but the actual fuel that was added is only 8 gallons, change the multiplier to 0.80.

NOTE: The Add Fuel option functions the same as the multiplier. If the gauge indicates that 10 gallons of fuel was used, but the actual fuel that was added is 14 gallons, change the Add Fuel to 14.0. If the gauge indicates that 10 gallons of fuel was used, but the actual fuel that was added is only 8 gallons, change the Add Fuel to 8.0 gallons. The gauge will calculate the multiplier and will automatically change the number in the Multiplier option.

8. Press the "-" button to highlight the Exit option. Press the MODE button to exit the Offsets menu.

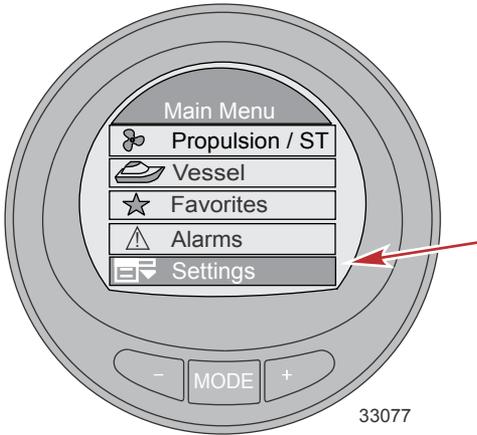
Clock

The Clock can be set to display a 24 hour day or a 12 hour (AM, PM) day. It can also be updated automatically when using a GPS. The GPS must be turned on—Yes, in the external sensors—Ext. Sensors menu for the GPS menus to be enabled. The clock setting must have the GPS Update turned on—Yes, for the universal time coordinated UTC to function. The UTC can be offset from -13 hours to +13 hours.

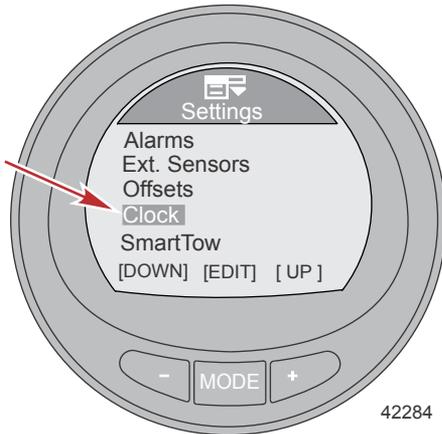
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.



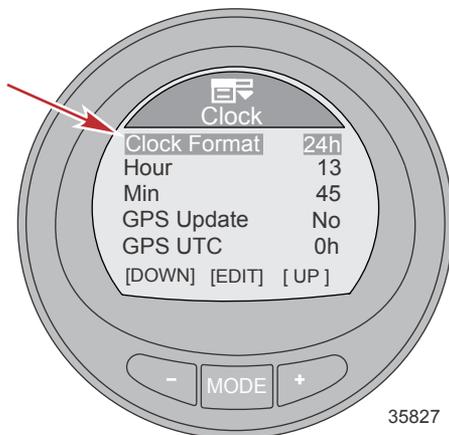
3. Press the "-" button to highlight the Clock menu.



4. Press the MODE button to edit the Clock menu.

SETTINGS

5. Press the MODE button to change the Clock Format option to 12 hour—12h, or 24 hour—24h.



6. Use the "+" or "-" button to highlight the options and use the MODE button to turn the option on—Yes, or off—No.

NOTE: A GPS must be connected to the monitor for the GPS Update to function, set waypoints, display GPS speed, UTC time, latitude, and longitude. A SmartCraft GPS puck must be installed to use the GPS speed based cruise control.

7. Press the "-" button to highlight the Exit option and press the MODE button to exit the Clock menu.

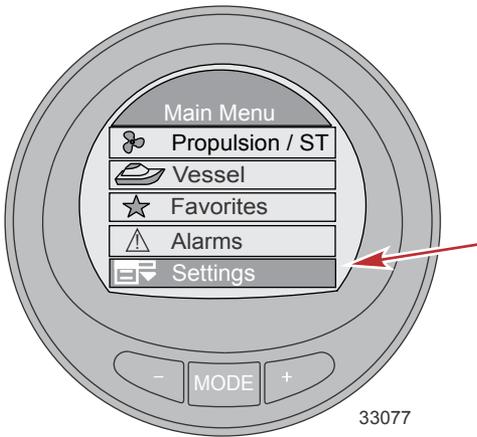
Smart Tow

The Smart Tow setting allows the user to select the type of speed sensor to use when Smart Tow is in use. Smart Tow settings also allows the user to select the type of speed filter to use. Choose to turn the filter off, low, medium, or high. Choosing OFF has the most sensitivity and will maintain the vessel speed with less fluctuation in the actual speed. Use the filters if the paddle wheel speed is unstable causing unwanted engine RPM fluctuation. The LOW filter setting is the most responsive and will allow more actual speed fluctuation than when the filter is turned OFF. The HIGH filter setting is the least responsive and will allow the most speed fluctuation and will slow the rate at which the speed changes.

1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

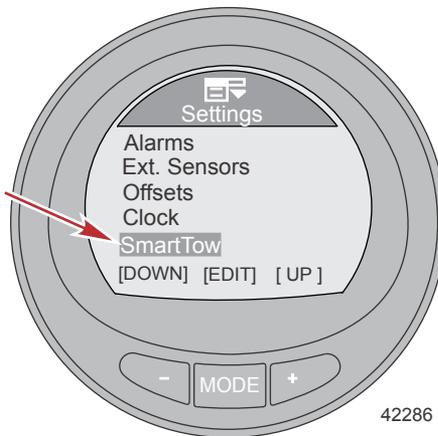
SETTINGS

2. Press the MODE button to enter the Settings menu.



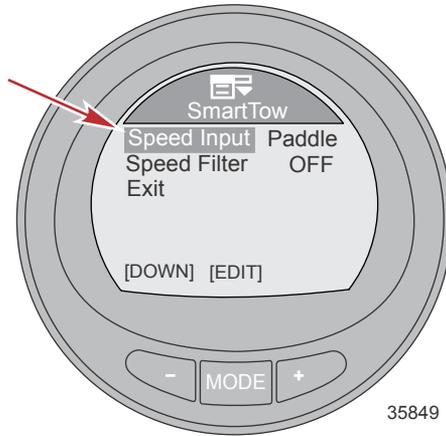
3. Press the "-" button to highlight the Smart Tow menu.
4. Press the MODE button to enter the Smart Tow menu.

NOTE: Depending on the Data Level of the gauge, this option may not be available.

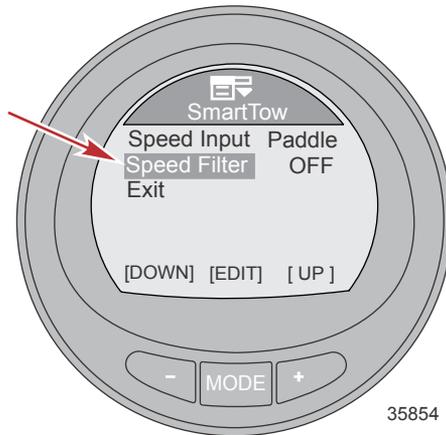


SETTINGS

5. Press the MODE button to change the Smart Tow Speed Input option to paddle wheel—Paddle or to global position satellite—GPS.



6. Press the "-" button to highlight the Speed Filter option.
7. Press the MODE button to change the filter to OFF, LOW, MEDIUM, or HIGH.



8. Press the "-" button to highlight the Exit option and press MODE to exit the Smart Tow menu.

SETTINGS

Active Trim

CONFIGURATION NOTES

IMPORTANT: Always configure Active Trim with a major profile that will allow the operator to select an adjustable profile with additional trim in. That is, avoid selecting a major profile that results in normal operation in adjustable trim profile 1. This will ensure that the operator can always bring the bow down to correct porpoising without having to manually trim the engine or drive.

CONFIGURATION PROCEDURE

1. Turn the ignition key switch to the on position.
2. Use the remote control handle trim switch to establish the full trim and tilt range in the Active Trim module:
 - a. Trim the engine or sterndrive to the full down position and hold the switch for five seconds after the engine or sterndrive reaches the full down position.
 - b. Trim the engine or sterndrive to the full up (trailer) position and continue to hold the trim up switch for five seconds after the engine or sterndrive reaches the full up (trailer) position.
3. Return the engine or sterndrive to the down position before starting the engine.

NOTICE

Avoid damaging the engine and drive from overheating. Never start or run the power package without water circulating through the cooling system.

4. Operate the vessel in open, navigable water.
5. From the Main Menu screen, select the Settings menu.
6. Use the "-" or "+" button to navigate through the list until Active Trim is highlighted. Press the MODE button to open the Active Trim screen.

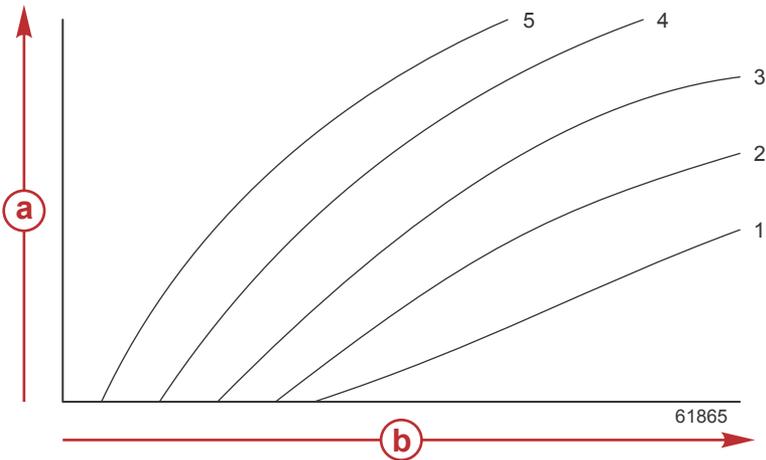


SETTINGS

- Accelerate until the vessel is on plane and cruising at the approximate desired speed. A comfortable cruising speed for most applications is typically achieved between 48 and 64 km/h (30 and 40 mph). Press the "+" or "-" button to change the major profile selection. Pick the profile that works best for the boat. As a general rule, increase the major profile level until the boat begins to porpoise. Then decrease one level.

IMPORTANT: RPM will increase as the sterndrive or engine is trimmed out.

NOTE: The Active Trim system can be configured to any of five unique major trim profiles. The following illustration shows how the trim angle versus boat speed curves will differ for each of the five major profiles.



Example of major trim profile curves; actual curves will vary

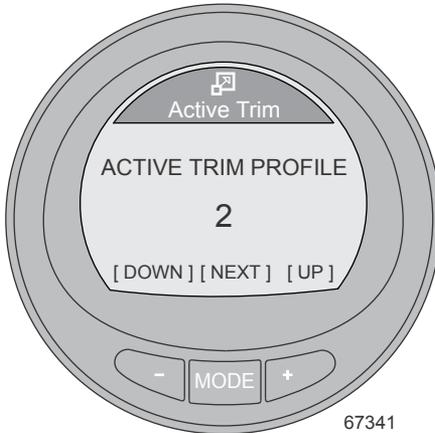
a - Trim angle

b - Boat speed

- When the Major trim profile is selected, press the MODE button to save the selection and Exit the Active Trim screen.
- Active Trim can be accessed through either the Full Screens menu or through the Propulsion menu. Ensure that Active Trim is enabled—ON.

SETTINGS

10. The selected Major profile can be fine-tuned with a Minor profile adjustment by pressing the "+" or "-" button and selecting a minor profile.



Minor profile selection screen

System

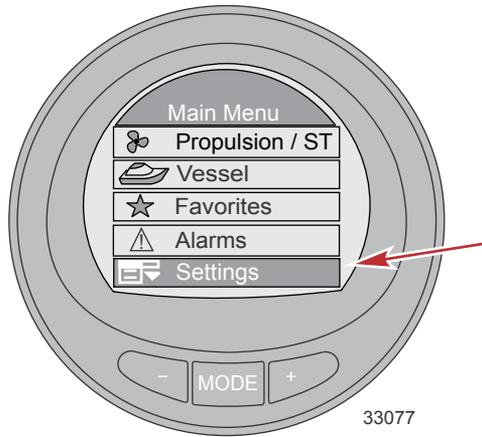
The System menu displays information about the engine, its location, the location of the station, the software version and the level of the gauge. This information cannot be edited.

The gauge can also be reset to the factory default settings. Resetting to factory default will erase all customized menu options. Additionally, the name of the gauge can be edited with up to 14 characters. When the gauge is not connected to an engine, the gauge can be set to Simulator. This can be used for a visualization simulation of how the gauge screens will appear when installed in a vessel.

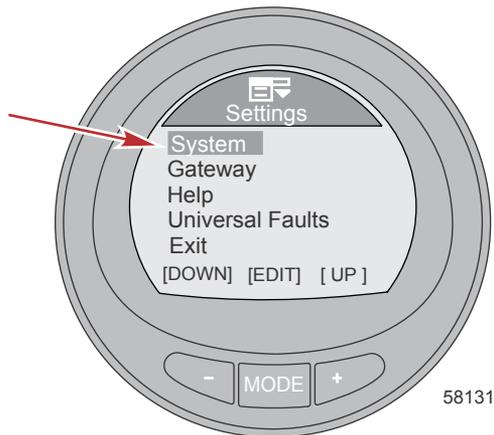
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.



3. Press the "-" button to highlight the System menu.
4. Press the MODE button to edit the System menu.



5. Press the "-" button to highlight Name.
6. Press the MODE button to access the Name option. The name window will open up on the right side of the gauge.

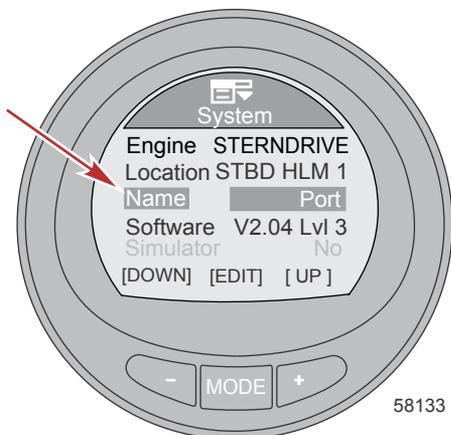
NOTE: The default name is Mercury.

7. Press the "-" or "+" button to choose the first letter of the gauge name. To save the letter and move to the next letter selection, press the MODE button.

NOTE: The gauge name can contain up to 14 characters. There is one empty character and 26 letter characters available. All 14 characters must be selected before exiting the Name option.

SETTINGS

NOTE: On a multiengine application, the Location option can be edited to view another engine's data; however, this can only be done on a Data Level 3 gauge.



8. After the last character is saved, the name window is not active and the program returns to the Name option.
9. Press the "-" button to highlight the Simulator option and press the MODE button to activate the simulation.

NOTE: The Simulator option is available when the monitor is powered with a 12-volt source for display purpose only. This screen cannot be activated when connected to a power package.

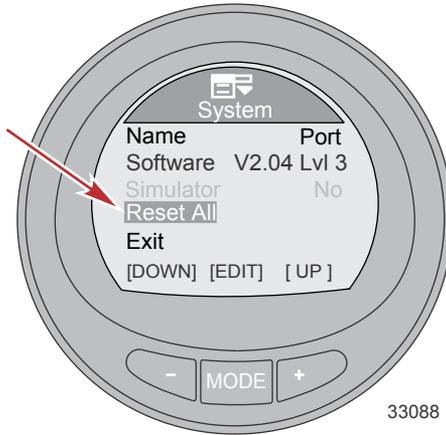
10. Press the "-" button to highlight the Reset All option.

IMPORTANT: Performing a reset will return the gauge to the factory defaults, eliminating any installation and calibrations performed during the set up of the product.

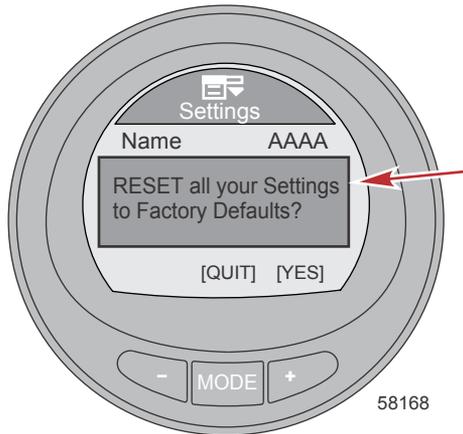
11. Press the "-" button to highlight the Reset All option.

SETTINGS

12. Press the MODE button to edit the Reset All option.

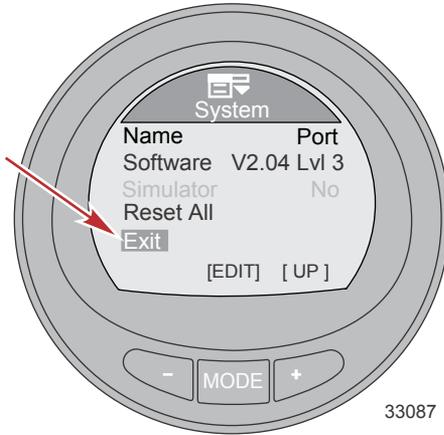


13. Press the "+" button to reset the gauge to the factory default settings or press the MODE button to quit the reset function. Press the "+" button to confirm the gauge has been reset to factory defaults.



SETTINGS

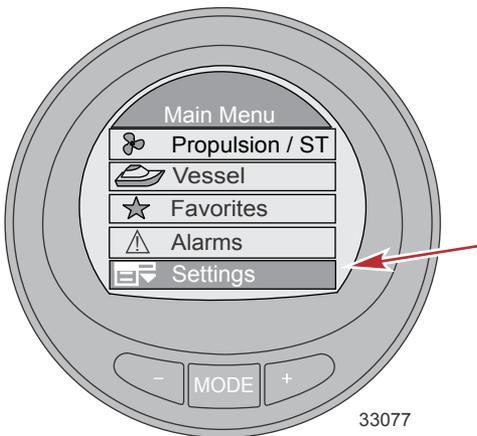
14. Press the "-" button to highlight the Exit option and press the MODE button to return to the Settings menu.



Gateway

Gateway is a software interface that allows or controls access to other programs through a NMEA 2000 or J1939 protocol: a channel for communication to share information. The software is capable of transmitting—**TX** information to, and receiving—**RX** information from various parameter group number—PGN products.

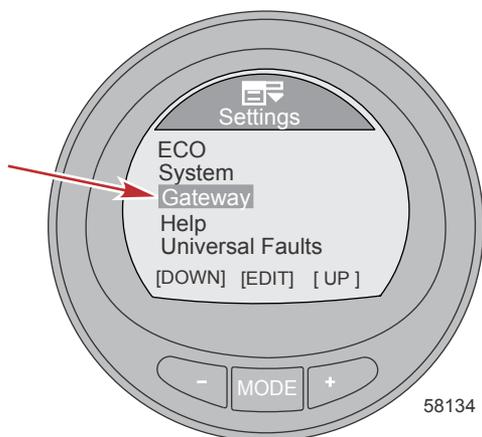
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.
2. Press the MODE button to enter the Settings menu.



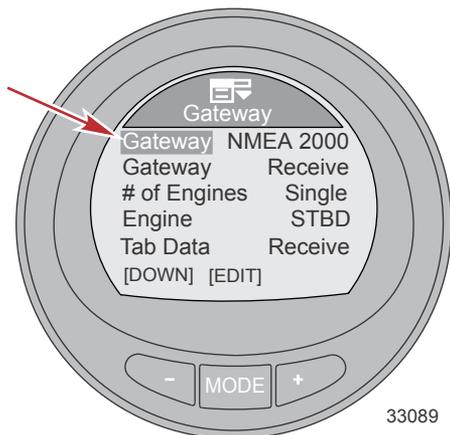
3. Press the "-" button to highlight the Gateway menu.

SETTINGS

4. Press the MODE button to edit the Gateway menu.



5. Press the MODE button to edit the Gateway option to NMEA 2000, J1939, or OFF.

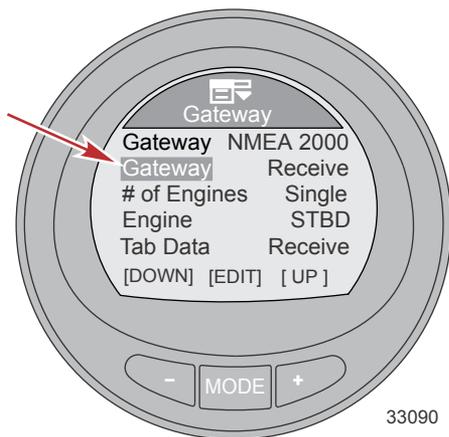


6. Press the "-" button to highlight the next Gateway menu.
7. Press the MODE button to edit the Gateway option to Transmit—**TX**, or Receive—**RX**.

NOTE: Only choose Receive when the monitor is used with an engine that is not SmartCraft compatible. The engine must be J1939 or NMEA 2000 compatible.

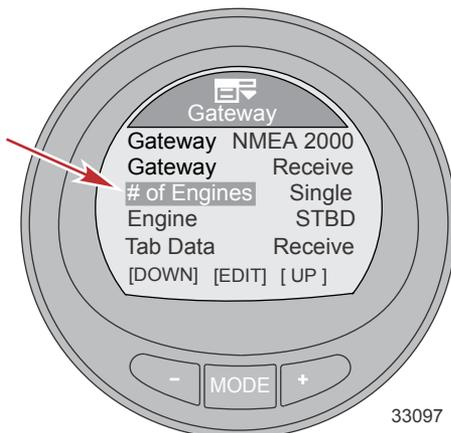
SETTINGS

IMPORTANT: The use of the MercMonitor on non-SmartCraft engines, requires the MercMonitor Gateway set to Receive. Failure to set the Gateway to Receive will cause numerous faults to appear that cannot be resolved. Changing the Gateway to Receive will clear the faults. Refer to General Information—MercMonitor Gateway Protocol Acceptance Description, to understand what data is available for non-SmartCraft engine applications.



8. Press the "-" button to highlight the # of Engines menu.
9. Press the MODE button to edit the # of Engines option to Single, Dual, Triple, or Quad.

NOTE: Only level 3 can edit the # of Engines option. All other MercMonitor models will default to Single.

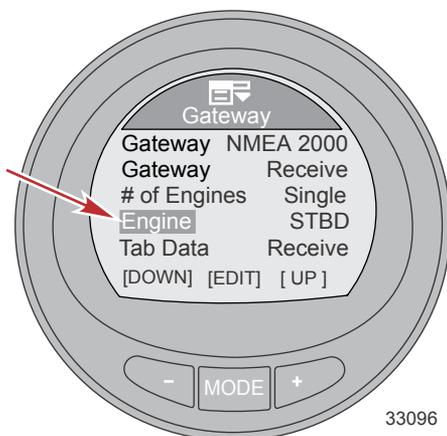


10. Press the "-" button to highlight the Engine menu.

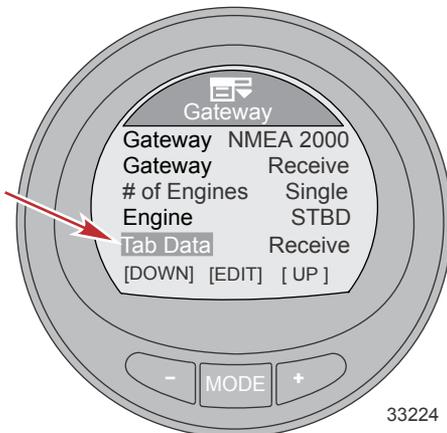
SETTINGS

11. Press the MODE button to edit the Engine option to starboard—STBD, port—PORT, starboard 2—STB2, or port 2—PRT2.

IMPORTANT: This menu option assigns the gauge to a specific engine.



12. Press the "-" button to highlight the Tab Data menu.
13. Press the MODE button to edit the Tab Data option to Transmit—TX, or Receive—RX.



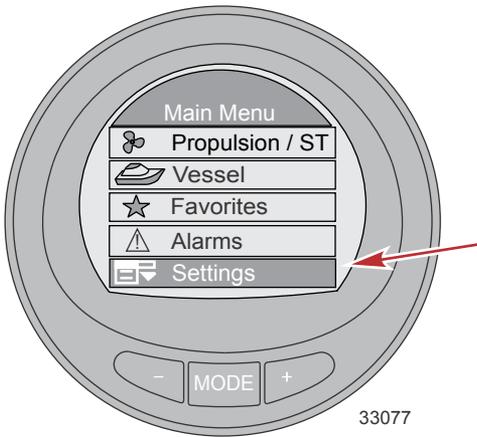
14. Press the "-" button to highlight the Exit option. Press the MODE button to return to the Settings menu.

Help

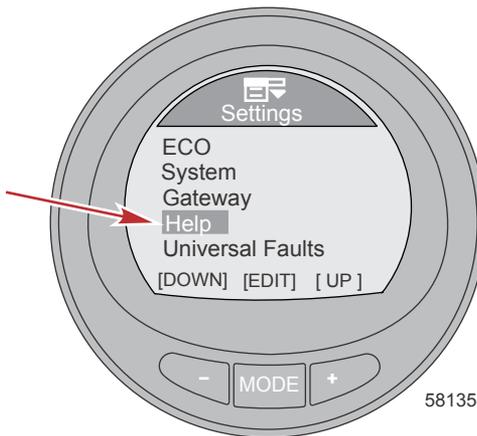
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.

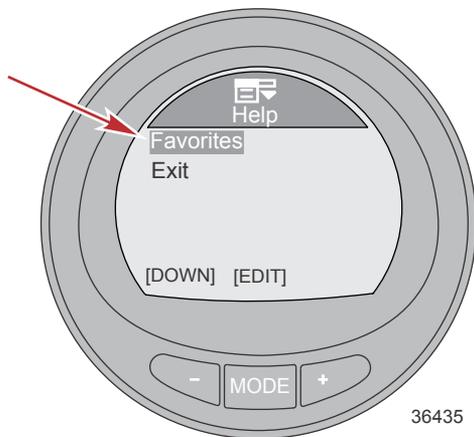


3. Press the "-" button to highlight the Help menu.
4. Press the MODE button to edit the Help menu.



SETTINGS

5. Press the MODE button to view how to select a screen to be displayed as a favorite.



6. A window will pop-up stating to hold the "+" and "-" buttons down when the screen you desire to be part of the Favorites is visible on the monitor.



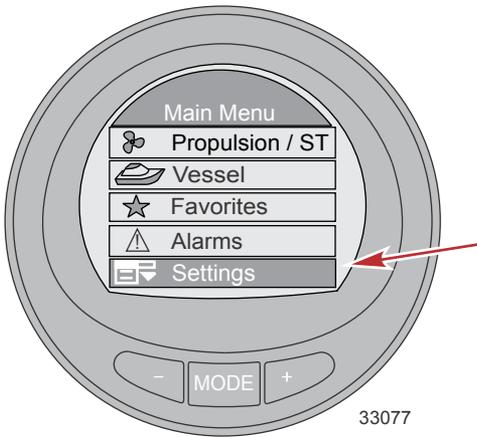
7. Press the MODE button to return to the main Help menu.
8. Press the "-" button to highlight the Exit option and press the MODE button to exit the Help menu.
9. Press the "-" button to highlight the Exit option and press the MODE button to exit the Settings menu.

Universal Faults

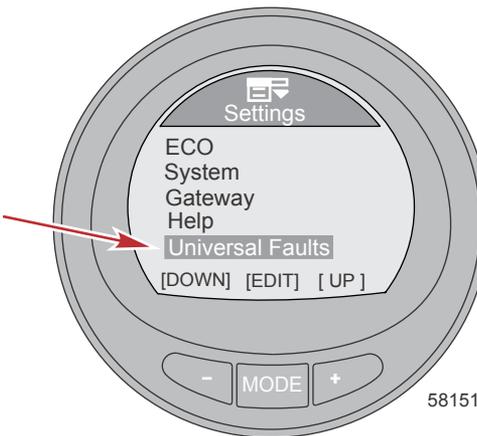
1. While in the Main Menu, press the "-" or "+" button to highlight the Settings menu.

SETTINGS

2. Press the MODE button to enter the Settings menu.

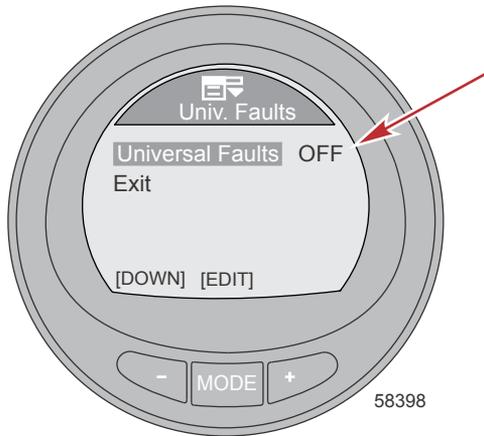


3. Press the "-" button to highlight the Universal Faults menu.
4. Press the MODE button to edit the Universal Faults menu.



SETTINGS

5. Press the MODE button to turn the Universal Faults option ON or OFF.



6. Press the "-" button to highlight the Exit option and press MODE to exit the Universal Faults menu.

CUSTOMER ASSISTANCE INFORMATION

Service Information

LOCAL REPAIR SERVICE

If you need service for your Mercury Marine product, take it to your authorized dealer. Only authorized dealers have factory-trained mechanics, special tools, equipment, and genuine Mercury and Quicksilver parts and accessories.

NOTE: *Quicksilver parts and accessories are engineered and built by Mercury Marine specifically for Mercury MerCruiser sterndrives, inboards, and outboards.*

SERVICE AWAY FROM HOME

If you are away from your local dealer and the need arises for service, contact the nearest authorized dealer. If, for any reason, you cannot obtain service, contact the nearest regional service center. Outside the United States and Canada, contact the nearest Marine Power Service Center.

STOLEN POWER PACKAGE

If your power package is stolen, immediately inform the local authorities and Mercury Marine of the model and serial numbers and to whom the recovery is to be reported. This information is maintained in a database at Mercury Marine to aid authorities and dealers in recovery of stolen power packages.

PARTS AND ACCESSORIES INQUIRIES

Direct any questions concerning genuine Mercury Precision Parts or Quicksilver Marine Parts and Accessories to a local authorized dealer. Dealers have the proper systems to order parts and accessories, if they are not in stock. **Engine model** and **serial number** are required to order correct parts.

RESOLVING A PROBLEM

Satisfaction with your Mercury Marine product is important to your dealer and to us. If you ever have a problem, question, or concern about your product, contact your authorized Mercury Marine dealership. If you need additional assistance:

1. Talk with the dealership's sales manager or service manager.
2. If your question, concern, or problem cannot be resolved by your dealership, please contact a Mercury Marine Service Office for assistance. Mercury Marine will work with you and your dealership to resolve all problems.

The following information will be needed by Customer Service:

- Your name and address
- Daytime telephone number
- Model and serial numbers for your power package
- The name and address of your dealership
- Nature of the problem

CUSTOMER ASSISTANCE INFORMATION

CONTACT INFORMATION FOR MERCURY MARINE CUSTOMER SERVICE

For assistance, call, fax, or write to the geographic office in your area. Please include your daytime telephone number with mail and fax correspondence.

United States, Canada		
Telephone	English +1 920 929 5040 Français +1 905 636 4751	Mercury Marine W6250 Pioneer Road P.O. Box 1939 Fond du Lac, WI 54936-1939
Fax	English +1 920 929 5893 Français +1 905 636 1704	
Website	www.mercurymarine.com	

Australia, Pacific		
Telephone	+61 3 9791 5822	Brunswick Asia Pacific Group 41-71 Bessemer Drive Dandenong South, Victoria 3175 Australia
Fax	+61 3 9706 7228	

Europe, Middle East, Africa		
Telephone	+32 87 32 32 11	Brunswick Marine Europe Parc Industriel de Petit-Rechain B-4800 Verviers, Belgium
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Asia, Singapore		
Telephone	+65 65466160	Brunswick Asia Pacific Group T/A Mercury Marine Singapore Pte Ltd 29 Loyang Drive Singapore, 508944
Fax	+65 65467789	

CUSTOMER ASSISTANCE INFORMATION

Customer Service Literature

ENGLISH LANGUAGE

English language publications are available from:

Mercury Marine

Attn: Publications Department

W6250 Pioneer Road

P.O. Box 1939

Fond du Lac, WI 54936-1939

Outside the United States and Canada, contact the nearest Mercury Marine or Marine Power International Service Center for further information.

When ordering be sure to:

- List your product, model, year, and serial numbers.
- Check the literature and quantities you want.
- Enclose full remittance in check or money order (NO COD).

OTHER LANGUAGES

To obtain an Operation, Maintenance and Warranty Manual in another language, contact the nearest Mercury Marine or Marine Power International Service Center for information.

Ordering Literature

Before ordering literature, have the following information about your power package available:

Model		Serial Number	
Horsepower		Year	

UNITED STATES AND CANADA

For additional literature for your Mercury Marine power package, contact your nearest Mercury Marine dealer or contact:

Mercury Marine		
Telephone	Fax	Mail
(920) 929-5110 (USA only)	(920) 929-4894 (USA only)	Mercury Marine Attn: Publications Department P.O. Box 1939 Fond du Lac, WI 54936-1939

OUTSIDE THE UNITED STATES AND CANADA

Contact your nearest Mercury Marine authorized service center to order additional literature that is available for your particular power package.

CUSTOMER ASSISTANCE INFORMATION

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