VesselView 4

8M0120668 316 eng

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VesselView 4 Overview

IMPORTANT: VesselView is a multifunction display (MFD) that is compatible with products manufactured by Mercury Marine Outboards, Mercury MerCruiser, and Mercury Diesel. Some of the functions explained in this manual will be disabled depending on the power package it is connected to.

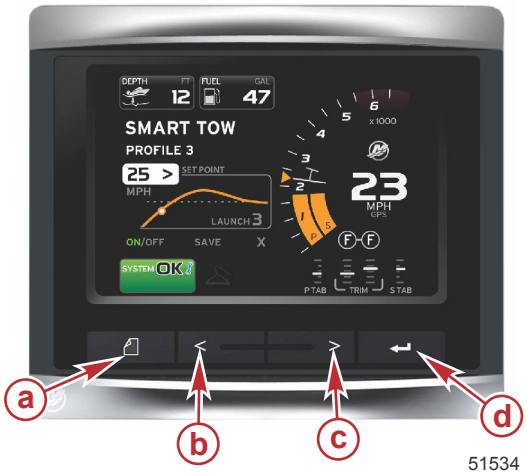
VesselView 4 is a comprehensive boat information center that can display information for up to two gasoline or diesel engines. It continuously monitors and reports operating data including detailed information such as water temperature and depth, trim status, boat speed and steering angle, and the status of fuel, oil, water, and waste tanks.

VesselView can be fully integrated with a vessel's global positioning system (GPS) or other NMEA-compatible devices to provide up-to-the-minute navigation, speed, and fuel-to-destination information.

VesselView is a display extension for autopilot and joystick operations. All functionality of these piloting features are controlled through Mercury Marine's autopilot control area network (CAN) pad. VesselView will show if a mode of control is active or in standby; pop-ups will appear as the vessel arrives at waypoints, prompting response to turns. Additional display text can be used to adjust the engines and drives to achieve maximum efficiency.

VesselView is equipped with a micro SD card port that allows an authorized OEM or dealership to import the vessel personality configuration. It can also be used by the owner to upgrade to the latest software version. When more than one VesselView is used, either as a triple- or quad-engine application, or a second helm, the same micro SD card can be used to download those configurations.

Buttons



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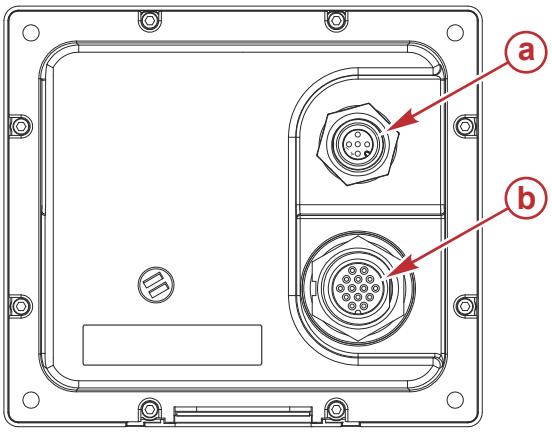
VesselView 4

- **a -** PAGES button
- **b -** LEFT arrow button
- **c -** RIGHT arrow button
- **d -** ENTER button

- Pressing the PAGES button will activate the scroller bar menu. Pressing the PAGES button again exits the scroller bar menu.
- Use the LEFT and RIGHT arrow buttons to navigate (highlight) fields on the screen.
- Press the ENTER button when the desired icon is highlighted to enter that data field or function.

Rear Panel



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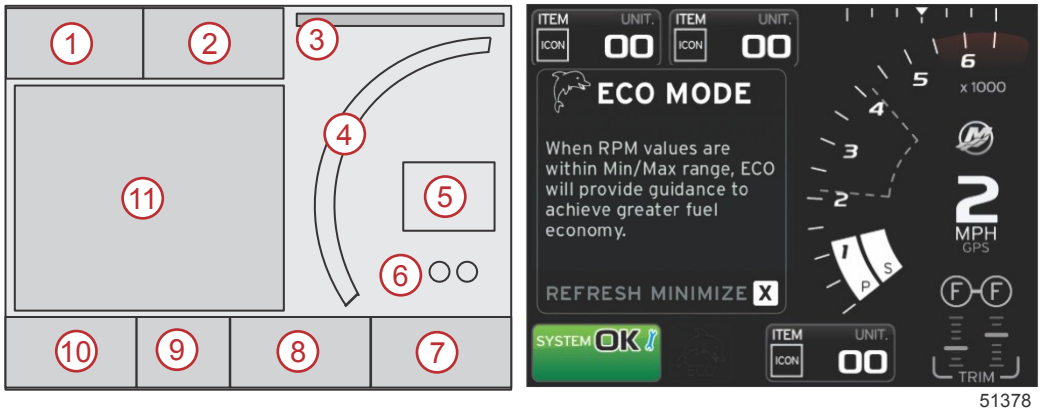
Item	Function	Description
a	NMEA 2000	Connects to NMEA 2000 network
b	SmartCraft	Power input and connects to the SmartCraft network, links SC 100 gauges

VesselView 4 Screen Display Locations and Descriptions

VesselView has multiple fields that display specific engine information and active modes.



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1. Volts or depth: This data field is user definable. A list of the available display content can be modified in the Settings menu.
   - Volts will appear out of the field only when a depth transducer is installed.
   - Depth will be replaced by volts if a depth transducer is not installed or had been uninstalled.
2. Fuel: This data field is user definable. A list of the available display content can be modified in the Settings menu.
   - Displays total fuel only. Individual fuel data will be located on-screen under fuel management.
3. Steering angle: If installed, the user can select maximum limits of 45° or 60°, and invert the angle. The steering angle will be available if the sensor is installed and monitored by the control module. When an outboard engine is the installed power package, this feature will be turned off by default, but can be manually turned on in the Settings menu.
4. RPM: Displays a moving bar representing the engine RPM. A dual-engine application will show two separate moving bars.
5. Speed: Displays the speed of the vessel. If a speed source is not available, the display will show dashes. The display will show the speed value, the speed source (paddle wheel, pitot, or GPS), and the units of measurement (MPH is the default). A speed value with more than two integers will be shown in smaller fonts.
6. Gear position: DTS products will display all gear positions for each engine. The positions are defined as **F** (forward), **N** (neutral), and **R** (reverse). Non DTS products will show **N** (neutral) and **G** (in gear).
7. Trim: This data field is user definable. Displays trim for up to two engines. Trim pop-up is available in the contextual data area. Trim pop-up can be turned off or on in the Settings menu.
8. Tabs: This data field is user definable. A list of the available display content can be modified in the Settings menu.

- If installed, the port tab will be displayed on the left side of the trim data and the starboard tab will be displayed on the right side of the trim data.

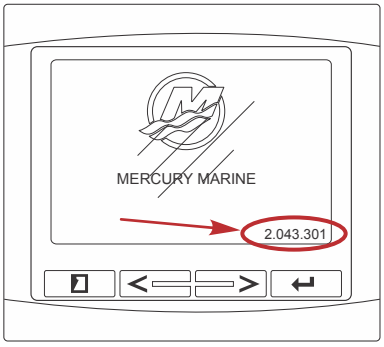
9. Scroller bar icon: Displays an icon representing the data currently displayed in the selected data area of the screen. Press the PAGES button to open the scroller bar. The user can choose another icon in the scroller bar and the selected data will then be displayed.
10. System status field: Displays the current active mode and warnings.
11. User-selected data area: Displays all selected data, including initial start up scan progress, good stewardship messages, maintenance schedules, and warnings.

How to Update Your VesselView 4 Software

The following instructions explain how to upgrade the VesselView 4 software. Internet access is required, along with a communication port used to transfer the file to a FAT or FAT 32 micro SD card.

Obtaining the Latest Software

1. The latest software for the display is available on-line for general download at Mercury's website; www.mercurymarine.com. To determine what software version is in VesselView, power up VesselView. While the system boots up, the screen will show the software version in the lower right-hand corner. If VesselView is already powered up, select Settings>System>About to see the current operating version of the VesselView software.



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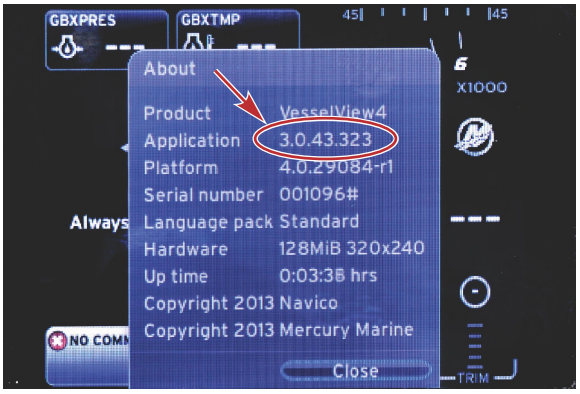

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2. Select the VesselView 4 product and click on DOWNLOAD UPGRADE.
3. Depending on your computer's security settings, a security warning may appear. Click **Allow** to continue.
4. Create a folder on your hard drive to save the file to.
5. If you are asked to SAVE or RUN, select SAVE and save to your hard drive.

   NOTE: *The file is typically 20–40 MB in size.*

   IMPORTANT: Some browsers may change the file extension. Verify that the file name and extension have not changed. The correct extension after the file name should be .upd. Do not rename the file or change the extension.
6. After the file is saved to the hard drive, copy the file to a 512 MB or higher capacity blank FAT or FAT 32 micro SD card root. The root of the drive is the topmost level, and not placed into a folder.

Upgrading VesselView

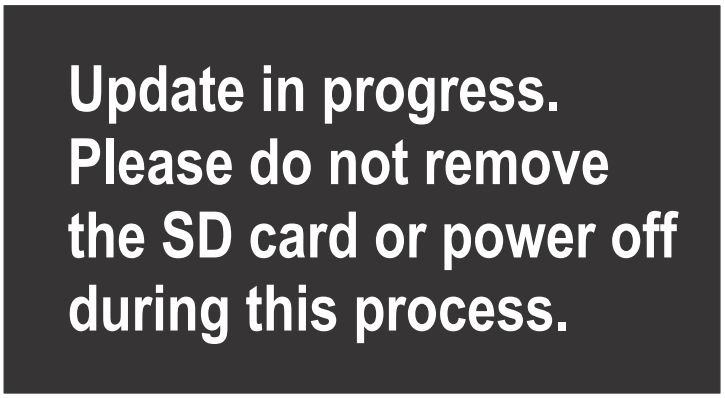
Important considerations before and during the upgrade process:

- Each display must be upgraded individually, there is no automatic network feature to upgrade multiple VesselView's simultaneously.
- Do not turn off the display or disrupt the power during the upgrade process.
- Do not remove the micro SD card during the upgrade process.

1. Verify that the ignition key is off and that VesselView is not turned on.

   NOTE: *Some installations may have the VesselView powered up with a dedicated circuit, rather than by the ignition key-on circuit.*

   IMPORTANT: VesselView must be turned off for a minimum of 30 seconds before upgrading the software.
2. Insert the micro SD card into the card reader port all the way until it clicks and stays in place.
3. Turn the ignition key on and verify that VesselView is on.
4. Allow the system to boot up. The update process is automatic.
5. Do not turn the ignition key off, turn VesselView off, or remove the micro SD card while the software is uploading. The upgrade process may take several minutes to complete.



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6. When the upload is finished, remove the micro SD card and the system will automatically reboot to complete the upgrade.

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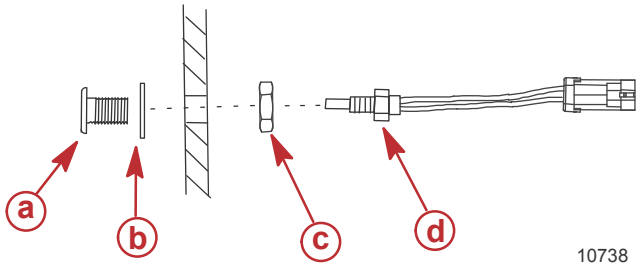
7. Verify that the software version upgraded is the correct version. Press the PAGES key and use the RIGHT arrow to scroll to the **Settings** menu. Use the ENTER button and arrow buttons to highlight **System** and open **About**. The current software version will be listed.

Installing the Ambient Air Temperature Sensor

NOTE: *The ambient air temperature sensor installation is optional.*

1. Select the location for the air temperature sensor. Mount the sensor where it will be exposed to outside air and not in direct sunlight.
2. Drill a 19 mm (0.75 in.) mounting hole.

3. Install the mounting adapter as shown below.



a - Mounting adapter
b - Gasket
c - Nylon nut
d - Air temperature sensor

4. Thread the sensor into the mounting adapter.
5. Connect the temperature sensor to the connector on the VesselView harness.

Maintenance

IMPORTANT: It is recommended that the supplied sun cover be installed for protection when the unit is not in service.

Display Screen Cleaning

Routine cleaning of the display screen is recommended to prevent a buildup of salt and other environmental debris. Crystalized salt can scratch the display coating when using a dry or damp cloth. Ensure that the cloth has a sufficient amount of fresh water to dissolve and remove salt deposits. Do not apply aggressive pressure on the screen while cleaning.

When water marks cannot be removed with the cloth, mix a 50/50 solution of warm water and isopropyl alcohol to clean the screen. Do not use acetone, mineral spirits, turpentine type solvents, or ammonia based cleaning products. The use of strong solvents or detergents may damage the anti-glare coating, the plastics, or the rubber keys.

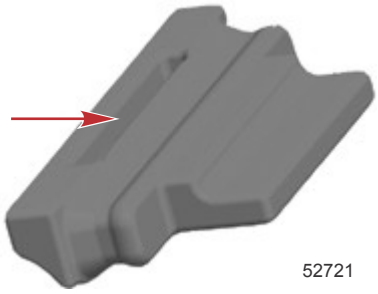
It is recommended that the sun cover be installed when the unit is not in use to prevent UV damage to the plastic bezel and rubber keys.

Media Port Cleaning

The media port door area should be cleaned on a regular basis to prevent a buildup of crystalized salt and other debris. A red rubber composite plug inside the micro SD card port helps prevent water intrusion into the card port.

IMPORTANT: Install the plug after cleaning, or after updating the software.

NOTE: *Install the plug with the groove side up. The opposite side has a chamfer so the door does not collide with the plug.*



Stuck Buttons

Verify that there are no buttons stuck in the down position. If a stuck button is found, wiggle the button to free it.

Section 2 - Initial Screens and Setup Wizard

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Splash Screen

When the ignition key is turned on, a Mercury startup splash screen will appear. The number of operation hours is supported up to 9,999 hours. In the lower right-hand corner of the screen is the software version. Power packages with emissions control will show an engine icon in the lower left-hand corner of the screen.

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Mercury splash screen

Setup Wizard

IMPORTANT: Do not rush VesselView by pressing buttons while the system is booting up to acquire vessel and engine data. When VesselView is initially started or after a factory reset, the system will take a few seconds to complete the boot up process.

The VesselView setup wizard guides you through the first steps of configuring the VesselView. The Setup wizard can be accessed at any time through the SETTINGS icon in the scroller menu. Press the PAGES, RIGHT ARROW, and ENTER buttons to navigate to the **Settings** menus.

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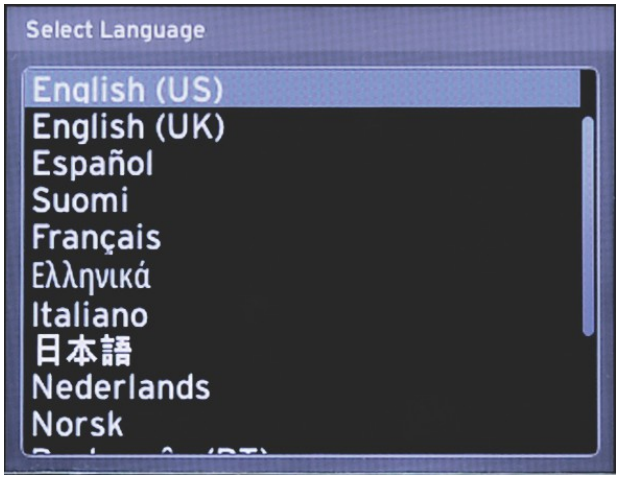
1. Select the language that you want VesselView to display. Use the LEFT and RIGHT arrow buttons to scroll through the language choices. Press the ENTER button to make the selection. VesselView will ask for language change confirmation and restart. The Restarting screen will appear. When the display returns, all text will be in the selected language.



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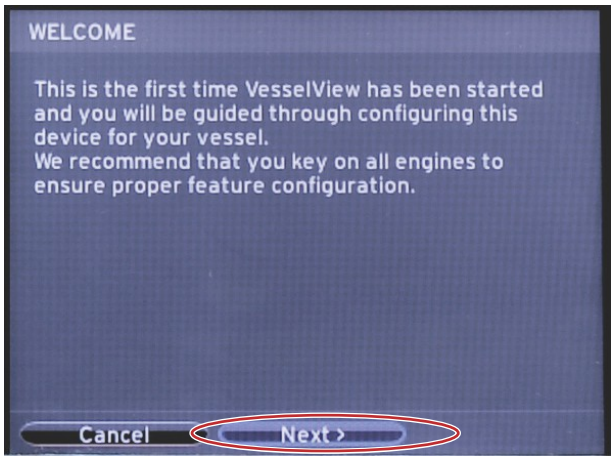
2. A welcome screen will appear. Press the RIGHT arrow to highlight the **Next** field.



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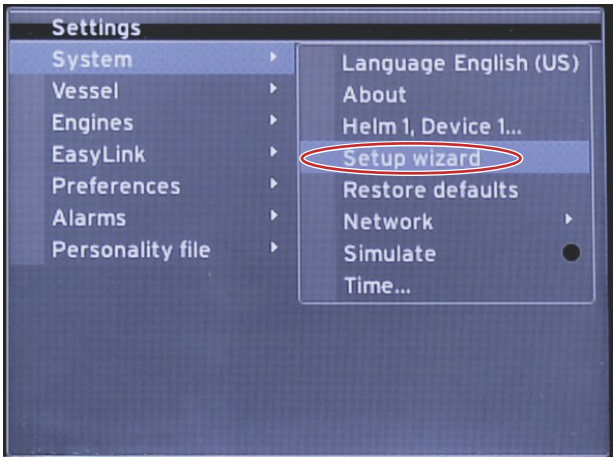
3. The main VesselView screen will appear in the selected language. The SETTINGS icon will be highlighted. Press the ENTER button. **System** will be highlighted in the **Settings** menu. Press the ENTER button and the flyout menu will appear. Press the RIGHT arrow button to scroll down to **Setup wizard**.



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Import Configuration

To import an existing vessel configuration, insert a micro SD card with the configuration file and select this file in the drop-down menu. If there is no import file, use the RIGHT arrow button to highlight **Next** and press ENTER.

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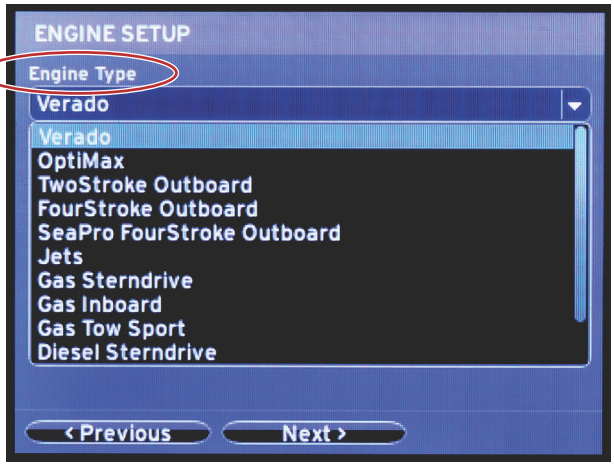
Engine Setup

1. In the **Engine Setup** screen, press the RIGHT and LEFT arrow buttons to highlight the drop-down fields. Make selections based on the engine type and model.



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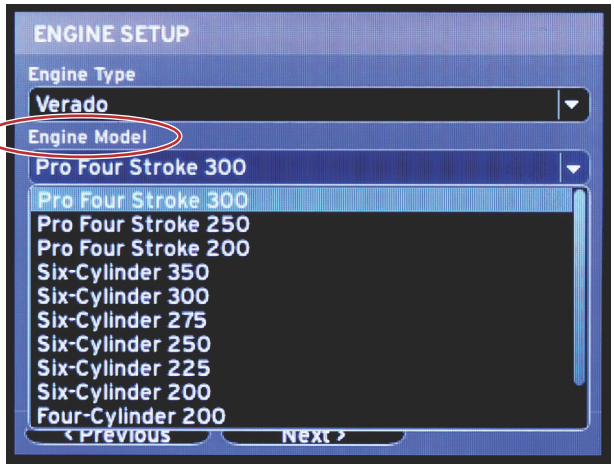
Engine type selection



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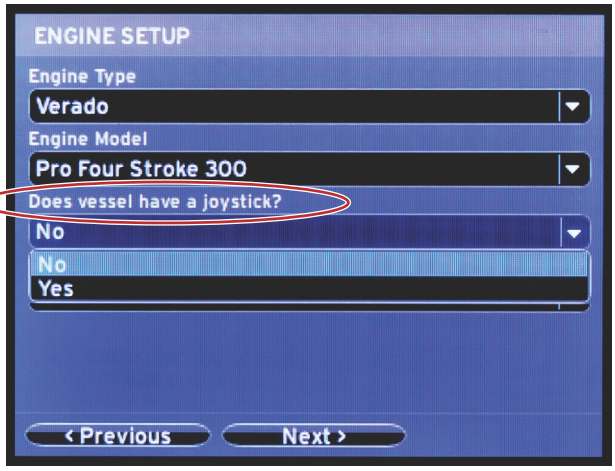
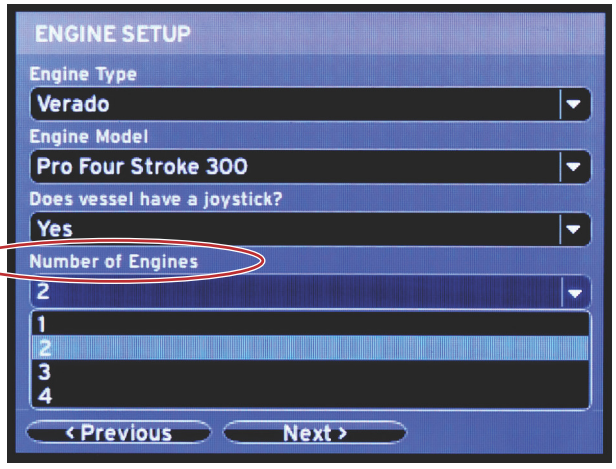
Engine model selection

2. Scroll down to complete selections in the **Engine Setup** screen. When all selections have been made, highlight **Next** and press ENTER.



60113

Joystick option selection

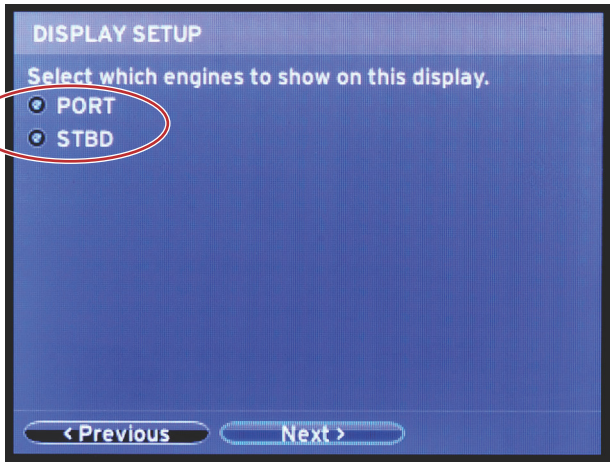


60114

Number of engines selection

Display Setup

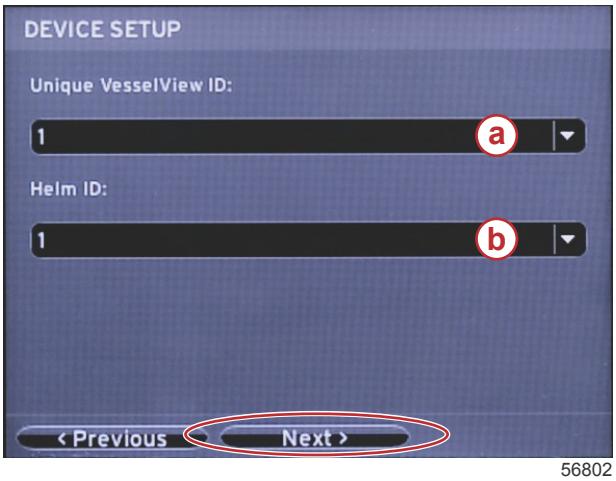
Depending on the number of engines indicated in the **Engine Setup** screen, select the engines to be displayed by this VesselView unit. Up to two engines can be selected.



60116

Device Setup

In the **Device Setup** screen, use the RIGHT and LEFT arrow buttons to highlight the drop-down menus. If using multiple VesselView devices, be sure to assign unique numbers to each unit, to avoid data problems. Helm numbers should match the location of the individual VesselView unit. Highlight **Next** and press ENTER to continue.



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a - VesselView device number
b - Helm location number

Units Setup

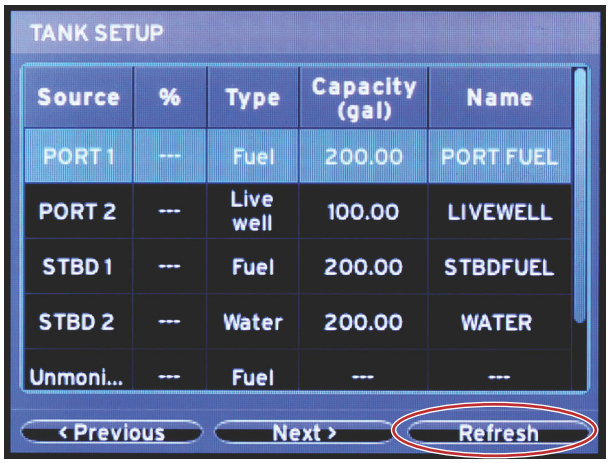
Select the units of measure that VesselView will display on-screen data; speed, distance, and volumes. Individual units of measure can be changed later. After selecting the units of measure, highlight **Next** and press ENTER.

60119

Tank Configuration

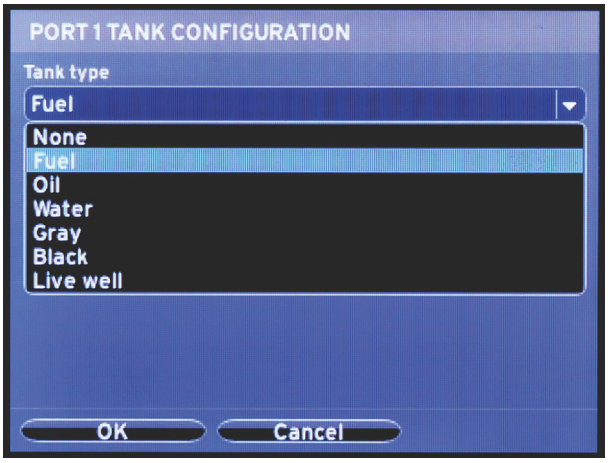
In the **Tank Setup** screen, tank type, capacity, and tank name can be assigned for up to eight tanks. The % column will display the live tank volume. Selecting the **Refresh** button will query the tank sensors and refresh the readings.

The unmonitored tank is a tank that does not have a sensor associated with it.



60120

Use the arrow buttons to toggle through the tank type options.



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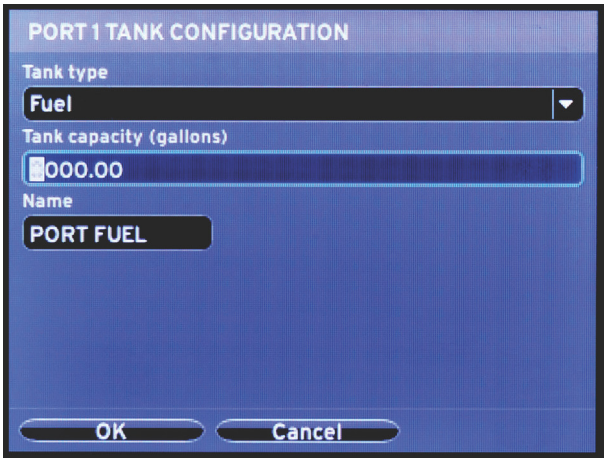
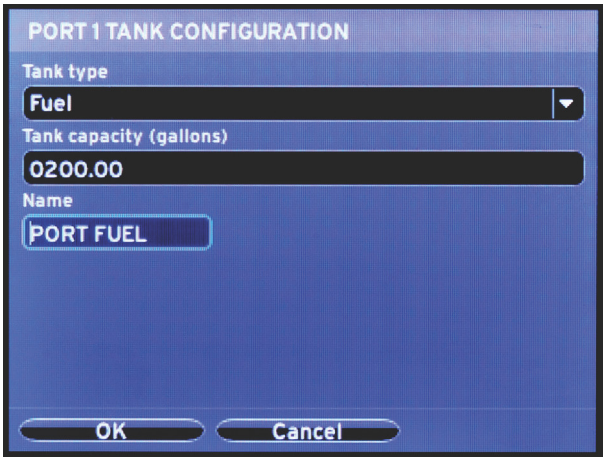
Enter the tank capacity by using the arrow buttons to change the digits. Use the ENTER button to continue to the next digit. When finished changing digits, press the ENTER button to continue.



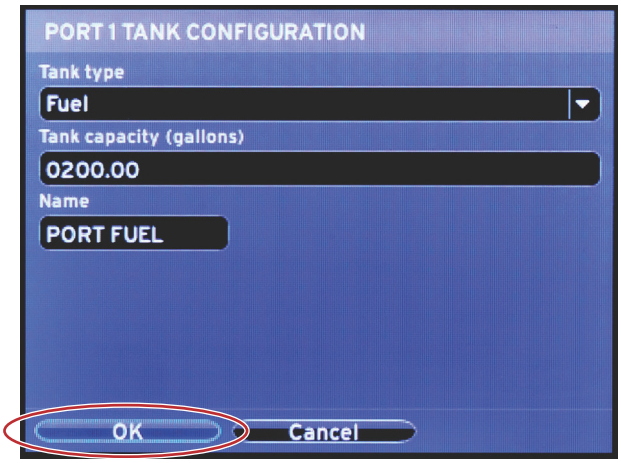
60122

Select the **Name** window, and use the arrow buttons to toggle through the character set.



60123

Select the OK button using the arrow buttons and the ENTER button. This will bring the operator back to the tanks selection screen to complete the configuration of an additional tank.



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Repeat the process to assign tank type, capacity, and tank name for the remaining tanks on the vessel. When complete, select the **Next** button to continue with the Setup wizard.

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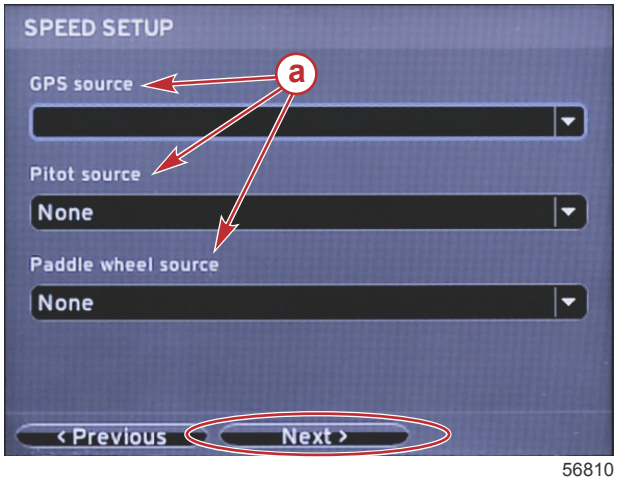
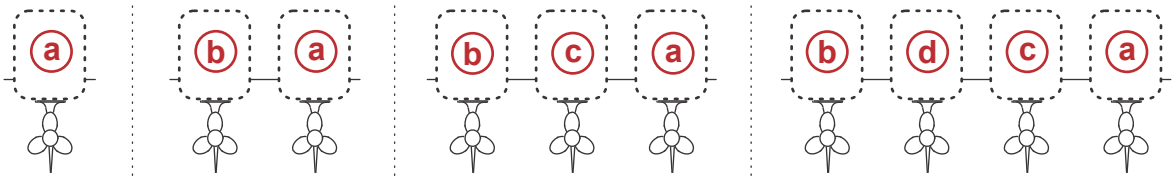
Speed Setup

In the **Speed Setup** screen, there are three options for determining how VesselView will acquire speed information. If the vessel is equipped with a GPS, the drop-down menu will allow selection of available devices. If the vessel is equipped with a pitot sensor, this option will be selected. If the vessel is equipped with a paddle wheel, then an option to select will drop down. After the speed source has been selected, highlight **Next** and press ENTER to continue.



56810

a - Options for speed data



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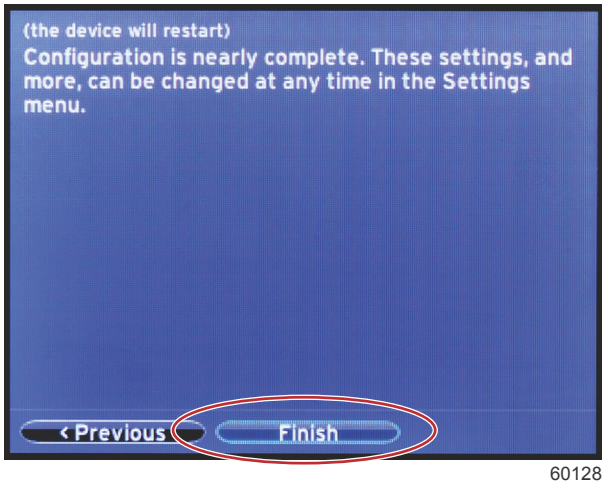
a - PCM0 = starboard outer
b - PCM1 = port outer
c - PCM2 = starboard inner or center
d - PCM3 = port inner

Finishing Setup Wizard

Highlighting **Finish** using the RIGHT arrow button and pressing ENTER will complete the Setup wizard on the VesselView. A Restarting screen will appear. Do not power off the unit until the Restarting screen is replaced by the vessel activity screen.



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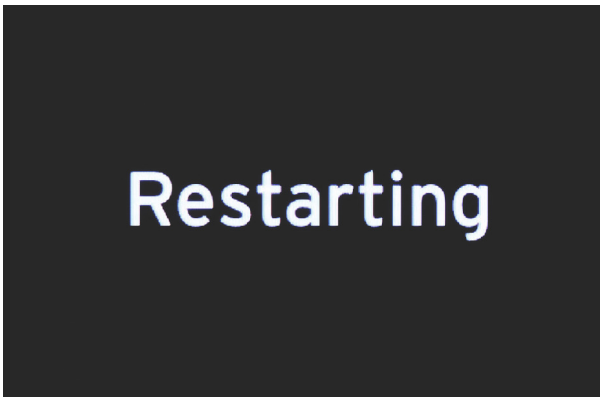


60129

Data Source Setup

Power on all products and key-on all engines to ensure that all data generating sources can be detected.

VesselView will ask to setup detectable data sources. Select OK to continue.

Select Start to begin the process.

NOTE: *If Cancel is selected by accident, data source setup can still be completed by navigating to Settings>System>Network>Auto select. Auto select will scan the vessel network and identify all compatible devices onboard.*

When Auto select is complete, select Close.

Startup Display Screens

Startup

On startup after the splash screen sequence, the main display will load and all data and graphics will be active. Two conditions are available: engine off or engine running. The following chart and information explain the sequence for how the constant and user-selected data areas change.

Engine state	User selected data area
Engine off, ignition on	Good stewardship message
Engine cranking	System scan in progress, animated propeller is shown
Engine running at idle	Propeller color turns green
Engine running in gear	Level 1 smart contextual data

Engine Off, Ignition On

The Mercury good stewardship message screen is displayed in the user-selected data area when the ignition is on and the engines are not running. All functions will be available and there will be no engine data displayed.

- The messages are randomly selected. Examples include: Do you have flotation devices, Mercury reminds you to please boat safely.
  - The good stewardship list items are subject to change depending on engine type or personality configuration.

Engine Running at Idle

When the engine is running, the user-selected data area of the display will show a green propeller when the system scan report is finished.

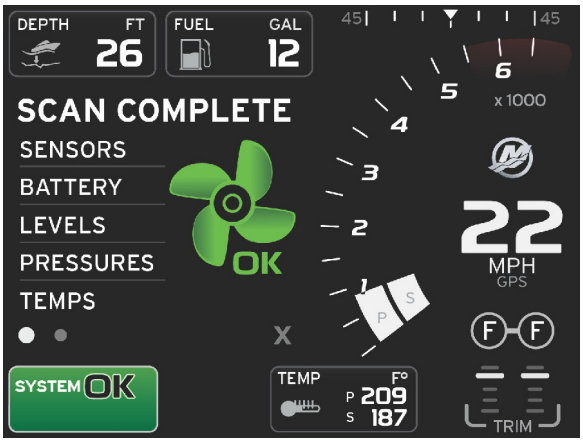
- The user-selected data area of the screen will display an animated propeller and progress bar to indicate a scan is in progress.

51618

System scan

a - Animated propeller
b - Progress bar

- If at anytime the engine is shifted into gear, the system scan will stop and the propeller will turn green and Level 1 smart data will appear.
- When the scan is complete, various pop-ups can appear: engine faults, maintenance reminders, communication errors, system OK scan report.



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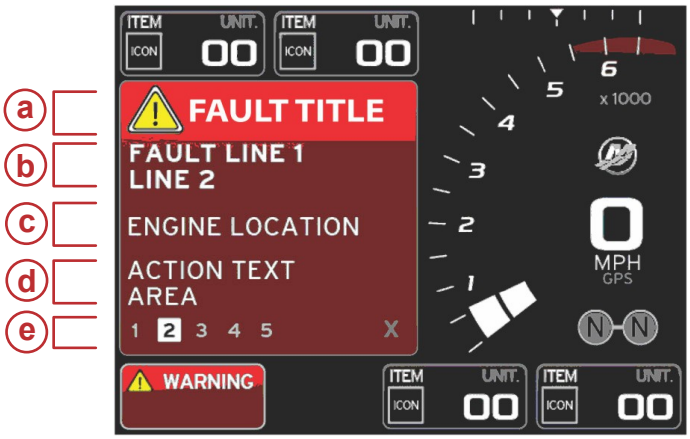
Scan complete

Engine Fault

If an engine fault is detected during a system scan, the user-selected data area will display descriptive text in a bold color fault screen. The color of the fault screen will depend on the type of fault detected. The system status field will change according to the fault that is displayed.



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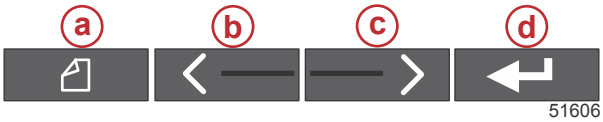
a - Warning icon with fault title
b - Short text or legacy text
c - Engine fault location
d - Action text
e - Number of faults

Fault Navigation

When faults are present, they will be identified with numbers along the bottom footer of the fault field.

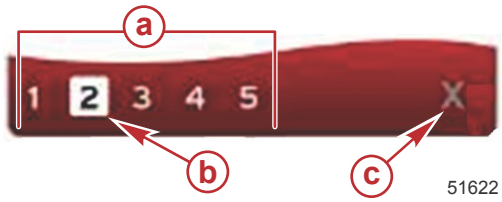
1. The selection tab will default to the first number.
2. Press the LEFT or RIGHT arrow button to review each fault.



51606

a - PAGES button
b - LEFT arrow button
c - RIGHT arrow button
d - ENTER button

3. The selected fault will have a white filled box with a black number.
4. The selected fault will alternate between the fault number and a positive (+) symbol indicating there is more data to display.



51622

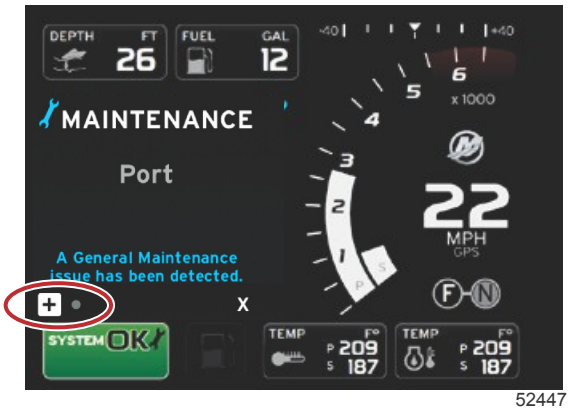
a - Number of faults in footer
b - Selected fault
c - Exit icon for the fault footer

5. When a positive (+) symbol is available, press the ENTER button to view the additional data related to that fault.
6. When the additional data requires more pages, the fault footer area will show one or more circles. The selected page circle will be white. This area will show the long text description of the fault.
7. To exit the fault footer, use the LEFT or RIGHT button to highlight the X in the fault footer. Press the ENTER button to exit the fault footer and return to the system status field.

Engine Scheduled Maintenance

If a maintenance reminder is detected during a system scan, the user-selected data area will display descriptive text in a bold color. The system status field in the lower left corner will change according to the maintenance issue that is displayed. Use common sense to protect your investment, and check your engine oil on a regular basis, preferably before each use.

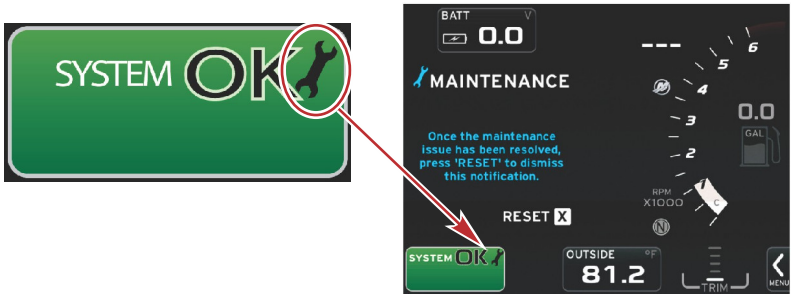
1. When the scheduled maintenance time is fully depleted, the user-selected data area will display a general maintenance reminder to perform the scheduled maintenance.



52447

2. Open the + icon to expand the text. You can reset the maintenance to 100% or exit the screen.

   NOTE: *The wrench icon maintenance reminder will be displayed in the system status field until the fault is cleared from the system.*



52448

3. After resetting the maintenance reminder, the wrench icon no longer appears in the system status field.

56985

System Scan - Scan Report

When a system scan is completed and there are no faults, maintenance reminders, or communication errors, the user-selected data area will display SCAN COMPLETE with a report and a good stewardship message. The scan report will be displayed until the engine is put into gear or use the LEFT or RIGHT arrow button to highlight the X and press the ENTER button

- The good stewardship messages are randomly selected. Examples include: Do you have flotation devices, Mercury reminds you to please boat safely.

- The good stewardship list items are subject to change depending on engine type or personality configuration.

51646

Scan complete **Good stewardship message**

Communication Errors

When a system scan encounters a communication error, the scan will stop and all data fields will be displayed with dashed lines. The system status field will be gray with an X in a red circle and text reading Comm Error.

51653

Communication error

Section 3 - Screen Overview and Operation

Table of Contents

System Status Field Functionality

The system status field is used to communicate specific engine information and active modes. It will always be visible on the main screen in the lower left corner of the display, unless a pop-up full screen warning is encountered. The color, icon, and text will change according to the system status, warnings, maintenance indication, and active modes. Your vessel personality and the type of power package installation will have a direct effect on which icons will be available in the system status field. Not all of the available icons are listed in the following table.

System Status Examples	
 51875	Engine icon when ignition is turned on. The icon is only visible if the power package has emissions control.
 52099	Communication error when the ignition is turned on. The power package is not communicating through the control area network.
 52100	Indicates that every component connected to the control area network is within normal operating parameters.
 52101	Warning icon indicates that there is a fault.
 52102	Warning indicating the starboard engine onboard diagnostic has detected a fault. All other fault identified engine locations will appear similar.
  52104	Autopilot waypoint tracking. The orange color indicates waypoint tracking is active and computer controlled. If autopilot waypoint tracking is in standby mode (not active) the color of the field will be gray. This color scheme change is the same for all autopilot functions.

Enlarging Data Fields

Data fields can be enlarged by highlighting the expand (X-PAND) icon and pressing the enter button.

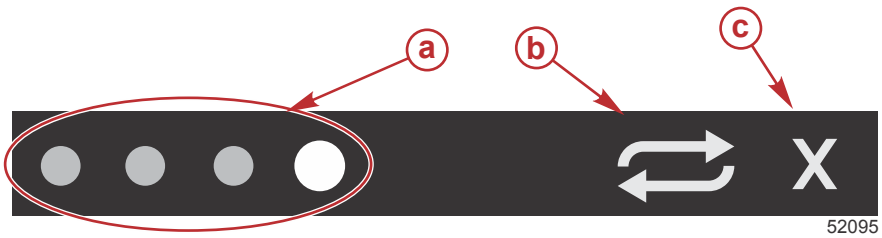
Expand icon

After the icon is activated, the user-selected data area will be filled with the enlarged data from the actively displayed data selection. Up to six data selections can be enlarged, one at a time, and will cycle in the chronological sequence shown in the following illustration. Data fields 3 and 4 will only display the optional user-selected data.

NOTE: *The default setting of trim and tabs will not enlarge unless they are activated with external controls. If they are activated, a pop-up process will be utilized. Trim and tabs pop-ups can be turned off in the* ***Settings*** *menu.*

1. Volts or depth: This data field is user definable. A list of all available display content is available in the **Settings** menu.
2. The steering angle will be available if the installed sensor is connected to the SmartCraft control area network. Steering angle is turned off by default, but can be manually turned on in the **Settings** menu.
3. Speed: Displays the speed of the vessel. If a speed source is not available, the display will show dashes. The display will show the speed value, the speed source—paddle wheel, pitot, or GPS, and the units of measurement—MPH is the default. A speed value greater than two digits will be shown in a smaller font.
4. RPM: Displays a moving bar representing the engine RPM. A dual-engine application will show two separate moving bars.
5. Fuel: This data field displays total fuel onboard.
   - Displays total fuel only. Individual fuel data will be located in the selected data area under fuel management.
6. The scroller bar allows the operator to select different Mercury application screens to open in the user-selected data area. Use the PAGES button and the arrow buttons to move between icons in this section of the screen.
7. Gear position: DTS products will display all gear positions for each engine. The positions are defined as **F**—forward, **N**—neutral, and **R**—reverse. Non-DTS products will show **N**—neutral and **G**—in gear.
8. Trim: This data field is user definable. Displays trim for up to two engines. Trim pop-up is available in the selected data area. Trim pop-up can be turned off or on in the **Settings** menu.
9. Selected data icon: Displays an icon representing the data currently being displayed in the selected data area of the screen. It will also display the previously selected data icon if there is currently no selected data being displayed. Select the PAGES button to open the scroller bar. The user can select an icon in the scroller bar and the selected data will then be displayed.
10. System status: Displays the current active mode and warnings.
11. Selected data area: Displays all selected data, including initial start up scan progress, good stewardship messages, maintenance schedules, and warnings.
12. The auto cycle icon will display all of the data screens associated with a menu selection. The display will cycle through, in sequence, at a user-selected time interval.
13. The **X** icon will close, or exit, the current data selection.

Each data field has its own page indicator in the lower left-hand corner of the user-selected data area. Use the arrow buttons to navigate to the various page or the auto cycle icon or exit icon. Press the enter button when the auto cycle or exit icon are highlighted.



a - Page indicators
b - Auto cycle icon
c - Exit icon

Auto Cycle

- When auto cycle is selected but not active, the icon will be displayed on a white field.
- Press the enter button to activate the auto cycle. The icon will be displayed on a blue field with white arrows and will remain this color scheme until auto cycle is disabled. The default time for auto cycle is five seconds per page and can be changed in the **Settings** menu.

- When the auto cycle is active, the arrow buttons are not available. Highlight one of the pages and press the enter button. Auto cycle remains active but is not visible. To return to the auto cycle, highlight the auto cycle icon and press the enter button.
- To turn off auto cycle, highlight the X and press the enter button. The screen will exit the user-selected data area.

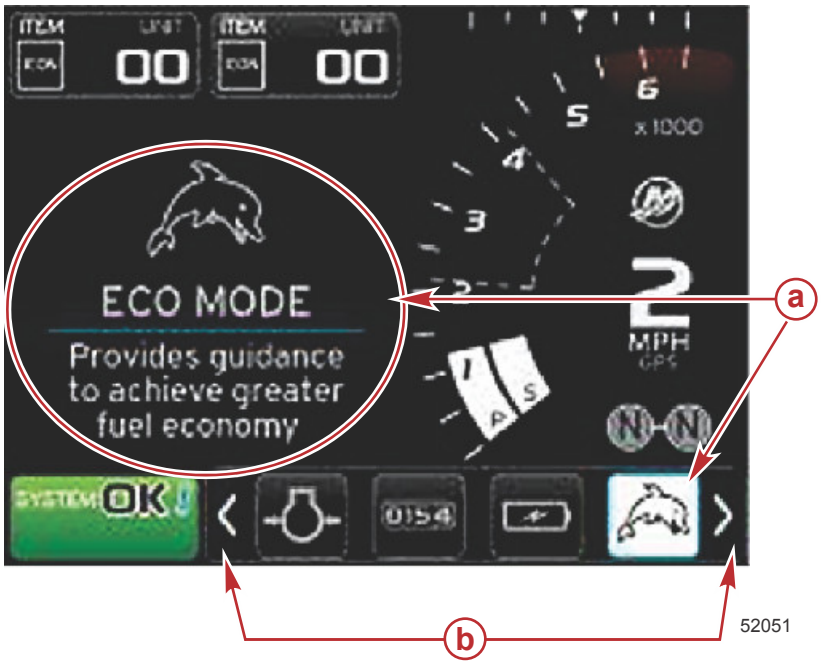
Scroller Bar Functionality

The scroller bar provides access to items not currently displayed in the user-selected data area of the screen. The item will be hidden until activated and will be displayed for the amount of time the user has selected in the **Settings** menu. If there is no activity for more than five seconds, the icon item in the user-selected data area will transition off. When active, the user-selected data area will be transformed to show the icon name and data pertaining to that feature.

Scroller Bar Activation and Navigation

1. Press the PAGES button to activate the scrolling bar menu.
2. Use the LEFT or RIGHT arrow buttons to highlight the icon you would like displayed. A blue outline will highlight the scroller bar icon to be selected.

   NOTE: *An arrow icon will appear to the left and right of the scroller bar. When only one arrow icon is visible, you must use the indicated arrow button to move the selection. When both arrows are visible, either arrow button can be used.*



a - Selected icon
b - Scroller bar arrows

User-Selected Data Area

During the scroller bar navigation process, when the icon is highlighted and the enter button is not pressed, the user-selected data area will change to display the icon, the icon name, and description of what the feature does. The user-selected data area will show this information for up to 30 seconds. The duration of time that the highlighted user-selected data and corresponding scroller bar will remain on-screen without pressing the enter button can be set by navigating to Preferences>Scroller Bar>Auto hide delay.

Final User-Selected Data Selection

When the icon has been selected, press the enter button. The icon will show up next to the system status field and the user-selected data area will display the full data pertaining to that selection.

Scroller Bar Icons

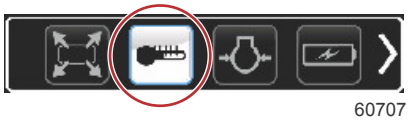
X-Pand

X-pand—displays enlarged data from selected data screens. Selected data will cycle on-screen.


60706

Temperatures

Temperatures—displays engine and fluid temperature values for oil, water, and fuel. Displays environmental air and manifold air temperature. Available information is power-package dependent.


60707

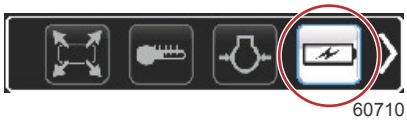
Pressure

Pressure—displays engine pressure values for water, oil, fuel, and boost. Available information is power-package dependent.


60709

Voltages

Voltages—displays battery values for all engines.


60710

Fuel

Fuel—displays fuel system statistics: current economy, average economy, volume use per hour, total capacity, and fuel used.


60711

Tanks

Tanks—displays the vessel's onboard tanks data for fuel, water, waste, and two-cycle oil capacity.


60713

Advanced

Advanced—displays additional engine information: manifold temperature, throttle percent, engine load, and manifold boost pressure. Available information is power package dependent.


60714

Performance

Performance—displays advanced performance data: peak performance—RPM or speed and inches per revolution of the propeller.


60715

Trim and Tabs

Trim and tabs—displays drive trim position and position of tabs. A sensor must be installed on the tabs for this function to display information.


60717

Trip Log

Trip log—displays recorded trip data: total distance, total time, average speed, average fuel consumption. Trip log recorded data can be erased and set to zero.


60719

Navigation

Navigation—displays data relating to the installed navigation system: compass heading, longitude and latitude, time to waypoint (TTW), bearing to waypoint (BTW), distance to waypoint (DTW), and course over ground (COG).


60720

Generator

Generator—displays data the generator can send through a NMEA 2000 or J1939 protocol control area network: current run/stop state, voltage—AC/DC, hertz, hours, oil pressure, and water temperature.


60721

ECO

ECO—displays information to guide the operator to the best trim position and engine speed to achieve the best fuel economy.

NOTE: *Refer to* ***Economy Mode*** *in this section for additional operating information.*


60722

Autopilot

Autopilot—displays autopilot data.

NOTE: *Refer to* ***Autopilot Mode*** *in this section for additional operating information.*


60723

Cruise

Cruise—activates cruise control. Allows the user to control the vessel with the engine RPM or vessel speed. Vessel speed control requires a paddle wheel sensor or GPS.

NOTE: *Refer to* ***Cruise Control Mode*** *in this section for additional operating information.*


60724

Troll

Troll—activates low-speed engine control. Can be used to control engine RPM.

NOTE: *Refer to* ***Troll Control Mode*** *in this section for additional operating information.*


60725

Smart Tow

Smart Tow—activates Smart Tow profiles for selection. Profiles can be modified, added, and saved.

NOTE: *Refer to* ***Smart Tow Mode*** *in this section for additional operating information.*


60726

Settings

Settings—the main location where data can be turned on or off, modify sensor data tolerance ±, select preferred displayed values—metric/English/nautical, and reset to factory default.

NOTE: *A reset to factory default will erase all customized settings. Refer to Section 4 for details.*


60727

Economy Mode

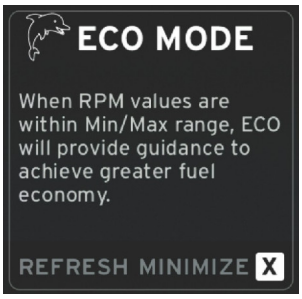
ECO Mode


57376

ECO mode displays information to guide the operator to the optimum trim position and engine speed to achieve the best fuel economy. The engine control module (ECM) or propulsion control module (PCM) calculates the best fuel economy based on information from various sensors on the power package and vessel.

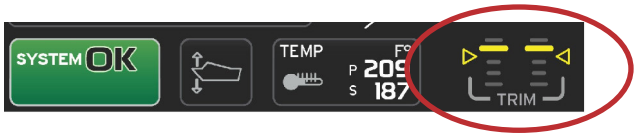
1. Press the PAGES button to activate the scroller bar.

2. Press the arrow button to highlight the ECO icon and press the enter button. The user-selected data area will display the ECO icon element with a short description on how to achieve the best fuel economy.



52165

NOTE: *When ECO mode is active, system footer data field 4 location will default to displaying trim values, if another data value is currently being displayed. Trim values will be displayed in the bottom right corner of the screen if another data value is currently being displayed.*

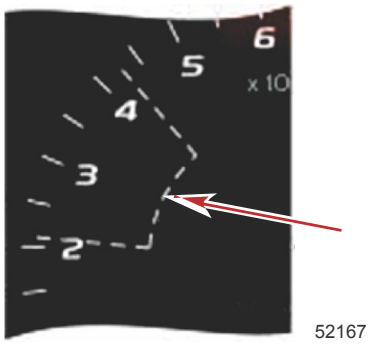


52166

ECO mode active trim values

ECO Minimum and Maximum Values

When ECO mode is active and the engines are in forward gear, the minimum and maximum value lines will appear in the RPM sweep. These lines display the active optimized range that is to be calculated. This window can be adjusted in the **Settings** menu.



52167

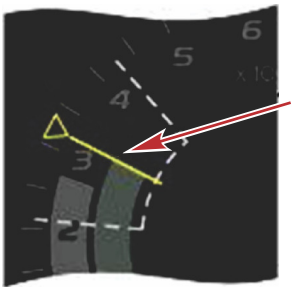
ECO RPM and Trim Targets

When the RPM values reach the minimum value range, RPM and trim targets will appear. A colored line will span the RPM sweep with colored targets to inform the user where the target values are and will change color when they have achieved optimization.

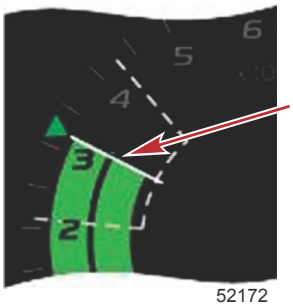
Target Colors

Triangle Color Rules				
State	**Color**	**Fill value**	**Action**	**Image**
Target not achieved	Yellow	Outline	Blinking	 52170
Target achieved	Green	Solid	Continuous	 52171

The following are examples of ECO RPM targets in different states.



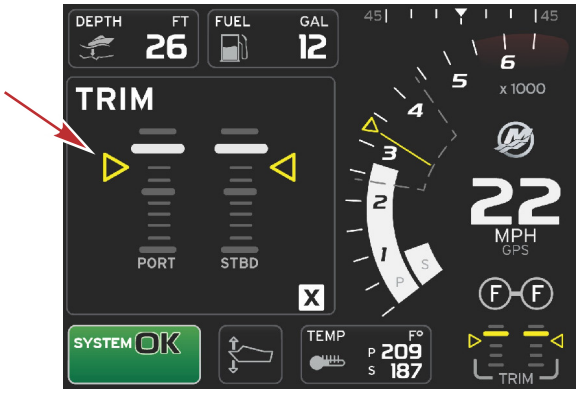
Not optimized



52172

Optimized

The user-selected data area will display the trim targets.



52173

When all targets have been achieved, the user-selected data area screen will change from instructions, to displaying OPTIMIZED with the current fuel economy value.

52174

ECO Navigation

The user-selected data area footer will display REFRESH, MINIMIZE, and X. Use the pages, arrow, and enter buttons to navigate these features.

- Minimize will hide ECO instructions and display ECO MODE in the system status field. Minimize allows the user to display other information in the user-selected data area.
- Refresh will reset the ECO values and use new parameters for determining the RPM and trim target values.
- X will close ECO mode, removing the RPM and trim targets from the constant data area.
- The active area will have a white border.

52176

a - Refresh
b - Minimize feature active
c - Exit

ECO Refresh

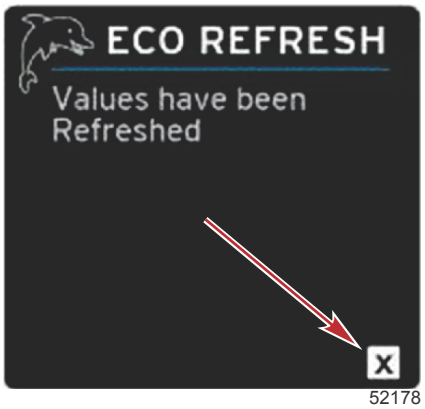
Refresh allows you to recalculate the current values that ECO uses for the RPM and trim targets.

1. Use the arrow buttons to highlight the refresh feature and press enter.
2. Instructions appear in the user-selected data area. Use the arrow button to highlight the refresh feature and press enter.

52177

3. When the system has finished calculating new targets, the user-selected data area will change to indicate that the values have been refreshed.

4. Highlight the X and press enter to return to the main ECO instruction screen.



52178

5. The ECO user-selected data area will show instructions and show new target values on how to achieve optimization for the best economy.

Minimize

Minimize is a feature that allows the user to continue with the ECO features while displaying additional information in the user-selected data area.

1. When minimize is selected, the ECO instructions will be removed and then display additional information in the user-selected data area. You can also select limited items from the scroller bar.
   - Scroller bar selection is limited to: Expand, Fuel Management, Trip Log, Voltage, Navigation, Pressure, Temperature, Tanks, and Generator.

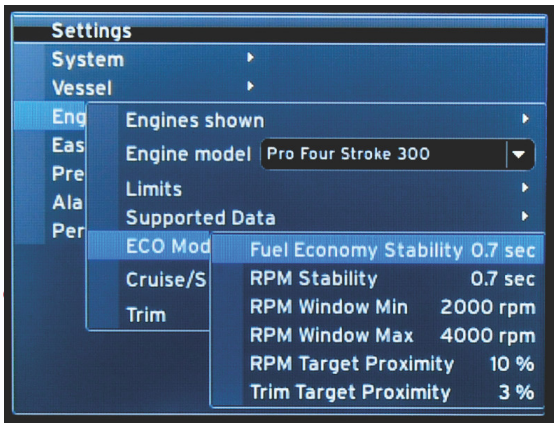
     NOTE: *The items available on the scroller bar are dependant on information available from the gauge and vessel personality.*
   - Items displayed in the scroller bar that are gray when ECO is active, are unavailable and cannot be selected.
2. When minimize is active, the system status field will display ECO.
3. To enlarge ECO mode, use the arrow buttons to highlight the ECO icon and press the enter button.
4. When ECO achieves optimization, the user-selected data area text will change to OPTIMIZED.

Exit ECO

To exit the ECO mode, select the X in the user-selected data area footer and VesselView will turn off the ECO function.

Changing ECO Targets

The software for ECO monitors the engine sensors and looks for the best fuel economy number while the vessel is in operation. When the software recognizes an improvement in the fuel economy, VesselView records what the trim and engine RPM values are at that time. This calculation happens whether the ECO screen is visible or not. When the software has recorded the RPM and trim values, it will guide the operator with arrows, to where that optimum running speed and trim setting was. In most applications the ECO screen does not need any calibration, although there are settings to customize the gauge for your boating style. The default settings are within acceptable parameters for most vessel applications. The following are the default settings, and the adjustment option which can be activated by pressing the enter button while any parameter is highlighted.



60837

60838

Default ECO Target Settings	
Fuel economy stability	0.7 seconds
RPM stability	0.7 seconds
RPM window minimum	2000 RPM
RPM window maximum	4000 RPM
RPM target proximity	10%
Trim target proximity	10%

IMPORTANT: A manual trim calibration must be performed before the ECO screen can be used if a vessel personality was not uploaded with a micro SD card. Using a default trim calibration will not allow the ECO screen to function properly.

Changing Target Values

1. Press the PAGES button to open the scroller bar.
2. Press the arrow button to highlight the settings icon. Press the enter button.
3. Press the arrow button to highlight Network and press the enter button.
4. Press the arrow button to highlight ECO Mode and press the enter button.
5. Press the arrow button to highlight the target you want to change—RPM window minimum or RPM window maximum, and press the enter button.
6. Press the arrow buttons to change the individual numbers (X000). Press the enter button to save that number and move to the next number (0X00), use the arrow buttons to change this number.
7. When the last number (000X) has been changed, press the enter button.

   NOTE: *The* ***Settings*** *menu will close after pressing the enter button. To change other target values, press the pages button, settings will be the icon that is highlighted. Follow the same process as previously outlined to change other target values.*

Smart Tow Mode

Smart Tow

57377

Smart Tow is an easy to use program to manage boat acceleration and target speed goals for pulling skiers, tubers, or watersport equipment of all varieties. Smart Tow takes the guesswork out of acceleration problems like too much hole shot, too much overshoot, deceleration, and inconsistent speed targets. Select a profile, select enable, and place the control handle to wide-open throttle, Smart Tow will do the rest.

Smart Tow is based on the engine RPM unless the vessel has a GPS installed and connected to the control area network. When the vessel contains a GPS, you can select either speed targets or engine RPM targets for Smart Tow control options. You can also create custom launch profiles.

52179

Features

Smart Tow utilizes the user-selected data area and the footer section to allow you to adjust the settings. Touch or swipe to move through the selection box fields. The footer section allows you to enable or disable Smart Tow, save, or exit. The items located in the data area footer require the selection to be touched or use the rotary knob to highlight and select.

Smart Tow offers five factory preset launch profiles, or the operator can create new custom launch profiles. Custom profiles are helpful when there are people onboard with varying levels of experience with watersports equipment. The operator can create more aggressive launches for experienced skiers, as well as milder launches for children, or towing inflatables.

Factory preset profiles

There are five selection fields within a profile. Use the arrow buttons and the enter button to change the profile selections.

- Set point is the RPM or speed. The operator can adjust the RPM or speed in the data screen area.
- Ramp is the time that the boat will take to get to the set point.
- Overshoot is the percentage over the set point the boat will achieve.
- Overshoot duration is the length of time that the boat will remain above the set point.

After making adjustments to the desired settings, select NEXT in the data area footer. This will take the operator to the keyboard screen, to name and save to the profiles list. Name the profile and select the enter key to add the new profile to the list.

Enable or disable turns the feature on or off. The RPM sweeps will be displayed as nonactive white sweeps when disabled. The RPM sweeps will be displayed as active orange sweeps when enabled. The operator can modify all settings when Smart Tow is in the off—disabled state.

Select SAVE. Save will modify the Smart Tow screen to allow the operator to choose quick save, save as new, create custom, or delete the profile.

If the operator presses on the X, Smart Tow is disabled and the constant and user-selected data area returns to the default screen.

Enabling Smart Tow

To activate Smart Tow, select a preset launch profile or a custom-made profile. When the vessel and person being towed are ready, place the throttle lever in the full throttle position. Smart Tow will begin the launch profile. A moving dot will move along the profile path, indicating the current progress of the launch profile.

1. Enable—on, is green when ready
2. Disable—off, is red when not active

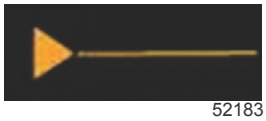
The boat will continue at the set RPM or speed target until disable is selected, or until the operator moves the throttle lever to the idle position.

Smart Tow Targets

Smart Tow will modify the constant data area by incorporating RPM and overshoot indicators within the RPM sweeps. The RPM set point target will be the color orange and the overshoot scale will be the color white.

a - RPM set point target
b - Overshoot scale

The RPM set point target will change from an outline when not active, to a solid when activated.

RPM Set Point Target			
State	**Color**	**File value**	**Image**
Set-point	Orange	Outline	 52182
Active	Orange	Solid	 52183

When Smart Tow is not active, the RPM sweep display is white. Smart Tow will modify the color of the RPM sweep display to orange when active.

52184

Active RPM sweep display color is orange

Smart Tow Overview Panel

Smart Tow will display an overview panel before launching Smart Tow for the first time. This screen will remain visible for a short time. The overview panel provides instructions on how to navigate the Smart Tow screen. You can either hide help, continue, or exit out of the Smart Tow feature from this screen.

- When HIDE HELP is chosen, the help screen will not appear during the next launch cycle and the system will continue to launch the Smart Tow default screen.
- CONTINUE will launch the default Smart Tow screen and keep the Overview page in the launch sequence the next time Smart Tow is launched.

52185

- X will exit the Smart Tow option.

Smart Tow User-Selected Data Area

The default Smart Tow screen allows you to select, set, and modify settings in the Smart Tow features. The launch graph dot is animated when Smart Tow is active and performing a launch sequence. The dot will move along the launch path showing what part of the launch sequence the system is performing.

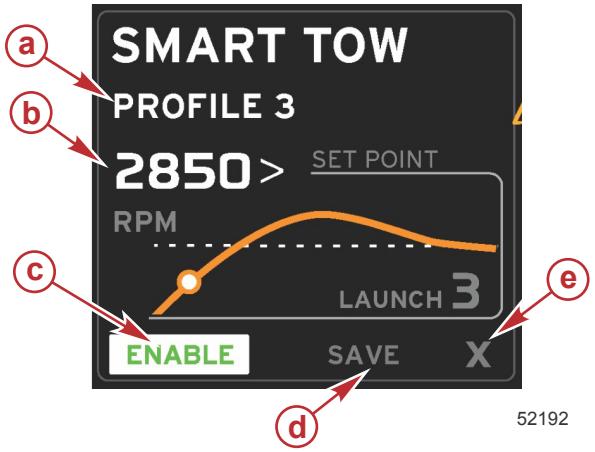
Launch graph animated dot

Navigation

Smart Tow utilizes the user-selected data area and the footer section of this area to allow you to adjust the settings. The PAGES button moves the selection box through the fields. The footer section allows you to enable or disable Smart Tow, save, or exit.

There are five selection tabs. The PAGES button will scroll through the profile selection, RPM/speed set point, and enable/disable. When the selection tab is on enable, the arrow keys change the selection to save or exit (X).

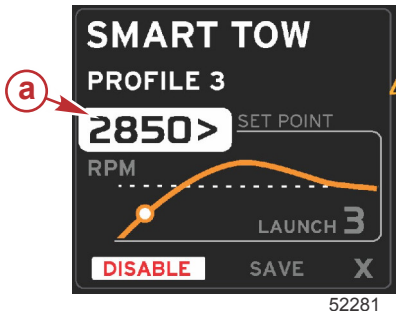
- The items located in the footer area require the enter button to be pressed to accept the selection.
- The enter button is not required for the field above the footer area.



a - Profile selection
b - Set point value
c - Enable
d - Save
e - Exit

The set-point value will allow the operator to adjust the RPM or speed set-point. These will default to 10 mph or 1700 RPM until the operator quick saves the values.

- Set-point is the default selection when Smart Tow is active. The operator can adjust the RPM or speed by pressing the arrow keys.

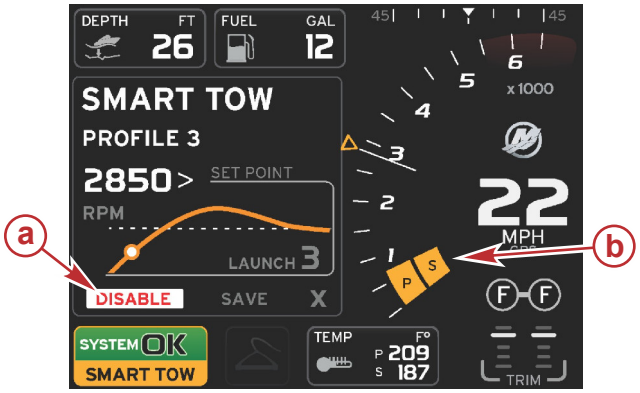


a - Set-point default selection

After the operator makes adjustments to the desired settings, pressing the PAGES button will move the cursor to the enable selection in the footer area of the user-selected data area.

- Enable or disable turns the feature on or off. The persistent data RPM sweeps will be displayed as nonactive white sweeps. The operator can modify all settings when the system is in the off state.
  a. The Enable icon will be green when active

b. The Disable icon will be red when not active



52282

a - Not active—red
b - Normal RPM sweep displayed when MPH mode is selected

- Use the arrow buttons to highlight save. Save will modify the Smart Tow screen to allow the operator to choose quick save, save as new, or create custom.
- If the operator selects the X and presses the enter button, Smart Tow is disabled and the constant and user-selected data area returns to the default screen.

Save

When the operator selects save and presses the enter button, the user-selected data area will transition to the save options. Quick save is the default selection.

- The PAGES button will move through the choices. Press enter to confirm the selection.

52283

a - Quick save
b - Save as new
c - Create custom

- **QUICK SAVE** will store the existing profile with the new RPM or speed values. Press the enter button to save the data and return to the Smart Tow screen.
- **SAVE AS NEW** allows the operator to store the current setting with a custom name. Press the enter button to transition to the custom file name. The file name selection is active by default.
  a. Use the arrow buttons to change the letter.
  b. Use the enter button to advance to the next letter.

52284

c. Use the PAGES button to highlight save and press the enter button to confirm the changes.

NOTE: *If the operator wants to exit, press the pages button to move the selection tab to the navigation footer then press the arrow keys to select X and press the enter button. The screen will transition to the main screen without saving the new data.*

Create Custom Launch

Create custom launch allows the operator to create a custom launch profile. The operator can adjust the set-point of the RPM or speed, ramp, overshoot, and overshoot duration. When the operator selects this option, the user-selected data area will transition to the custom profile set-up screen.

52286

- Press the PAGES button to move the selection tab to the desired fields that require adjustment. Use the arrow buttons to adjust the value of the selected item.
- After the custom profile is completed, use the PAGES button to highlight **Next** or **X**.
  a. Selecting **Next**, the user-selected data area will transition to SAVE AS NEW to create a custom name for the new launch profile. Press the enter button to accept the selection.
  b. Selecting **X**, the custom profile settings will not be saved and the screen will transition to the main Smart Tow screen.

Disabling Smart Tow

To exit out of Smart Tow, DISABLE must be selected. VesselView will transfer throttle control back to the operator. When Smart Tow is enabled, moving the throttle lever to any point below the speed target will decrease the speed of the boat, but the top speed of the boat will not increase beyond the target speed.

Cruise Control Mode

Cruise Control


57378

The cruise feature allows the operator to select a set-point and adjust the value so the vessel maintains a specific speed or engine RPM.

- Cruise is RPM based, unless the vessel incorporated a Mercury Marine GPS into the control area network.
- If the vessel has a Mercury Marine GPS, vessel speed is the default setting.
- The operator can select either RPM set-points or speed based set-points. The type of cruise option selection can be changed in the **Settings** menu.
- Open the scroller bar and highlight the cruise icon. Refer to **Scroller Bar Icons** to identify the cruise icon.

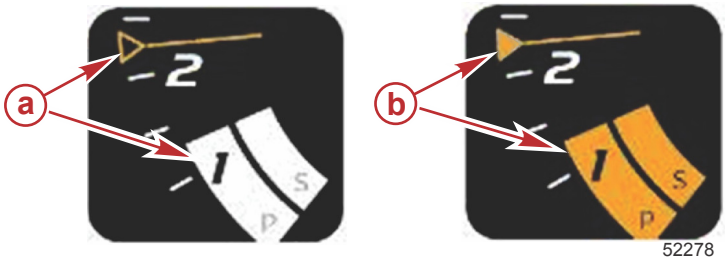
Cruise Control Data Area

Constant Data Field Change

Cruise will modify the constant data field of the screen by incorporating an RPM indicator within the RPM sweep, similar to Smart Tow and ECO mode targets.

- When cruise mode is activated, elements of the constant data field will be modified to communicate:
  - RPM set-point.

- RPM sweep color will change to orange when active to indicate the engine is computer controlled.

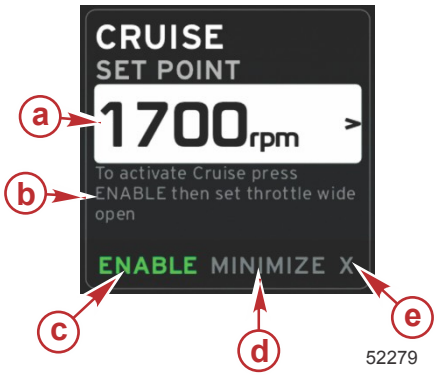


a - Cruise not active
b - Cruise active

Cruise—User-Selected Data Area

Cruise will modify the user-selected data area of the screen when active.

- Elements within the user-selected data area will change to allow the user to set-up:
  a. RPM set-point
  b. Cruise status enable or disable

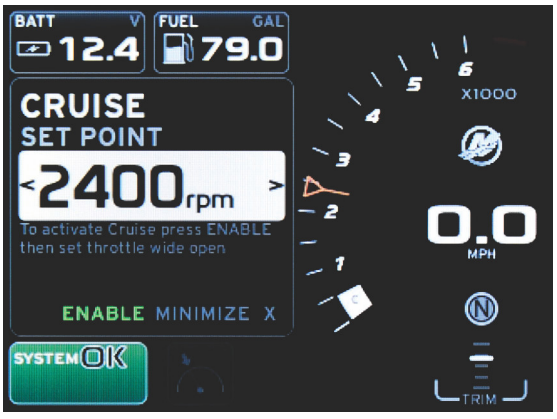


a - Set-point value
b - Instruction
c - Enable
d - Minimize
e - Exit

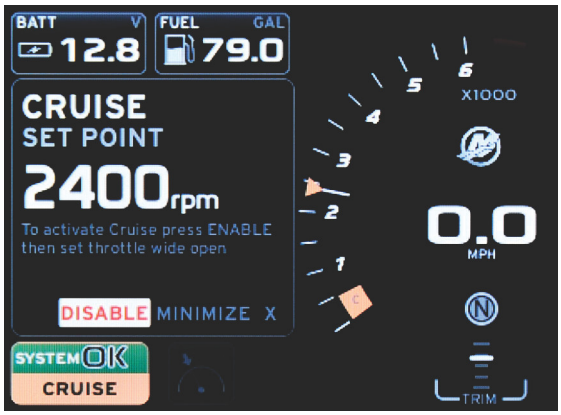
Cruise Navigation

Cruise mode will have a modified navigation system similar to Smart Tow. The user-selected data area footer allows the operator to enable or disable cruise, minimize, or exit the program element. Footer navigation will follow the same basic navigation selection strategy as other features.

1. Use the arrow keys to scroll through the selections.
2. Press enter to activate the selection.

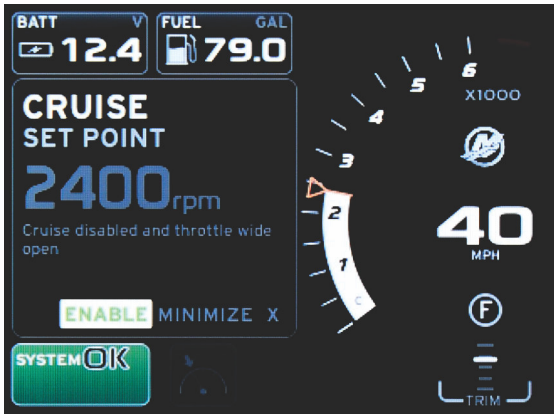


a. Enable or disable turns the cruise feature on or off. After selecting enable, place the throttle lever in the wide-open forward position and VesselView will control the boat speed.



60841

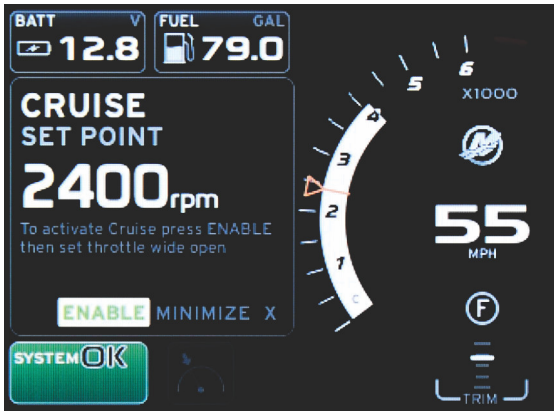
Enable selected



60843

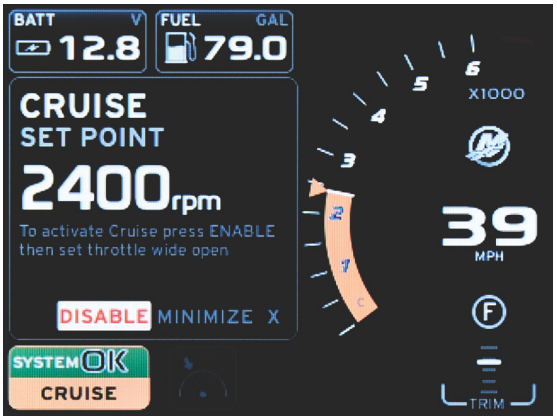
Disable selected

b. When cruise is disabled, the operator can throttle the boat to any desired speed, and the target marker will remain in the RPM sweep at the cruise set point.



60844

c. Selecting enable will return the RPM sweep to the cruise set point.



60842

d. Minimize will hide cruise data and display CRUISE in the system status field. This allows the operator to display information from other selected icons.

3. The set-point adjustment selection field will be the default location at cruise start-up. After the operator makes adjustments to the desired settings, pressing the PAGES button will move the selection tab to the enable/disable selection in the user-selected data area footer.
   a. Use the arrow keys to move between the set-point selections.
   b. When the selection tab is outside the navigation area (set-point field), the operator only needs to change the RPM or speed adjustments. There is no need to press the enter button to engage the new setting.
4. Minimize is a feature that allows the operator to use the cruise feature while displaying additional data in the user-selected data area.

   IMPORTANT: Set-points cannot be adjusted when cruise is minimized.
   a. Scroller bar icon selection is limited. Items that are not accessible will be grayed out when cruise is active.
   b. If autopilot is active, and cruise is minimized, the system status field will display CRUISE.
      - Cruise data will be displayed over autopilot settings if the user selects the system status field.
      - If an autopilot pop-up notification occurs or the operator uses the autopilot CAN trackpad, autopilot data will automatically fill the user-selected data area. The operator will have to minimize to hide the pop-up data.
5. After minimize is activated, the system status field will display CRUISE.
6. When exit is selected while displaying the cruise element and the operator presses enter, the cruise feature will be disabled. The cruise icon will be displayed next to the system status field until another icon is selected from the scroller bar.

Troll Control Mode

Troll Control

57379

The troll feature allows the operator to select a set-point and adjust the value so that the vessel maintains a specific speed or engine RPM.

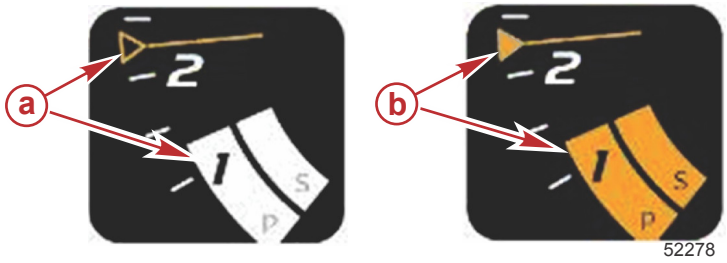
- Troll is RPM based, unless the vessel incorporated a Mercury Marine GPS into the control area network.
- If the vessel has a Mercury Marine GPS, vessel speed is the default setting.
- The operator can select either RPM set-points or speed based set-points. The type of troll option selection can be changed in the **Settings** menu.
- Use the arrow buttons to highlight the troll icon. Refer to **Scroller Bar Icons** to identify the troll icon.

Troll Control Data Area

Constant Data Field Change

Troll will modify the constant data field of the screen by incorporating an RPM indicator within the RPM sweep, similar to Smart Tow and ECO mode targets.

- When troll control mode is activated, elements of the constant data field will be modified to communicate:
  - RPM set-point
  - RPM sweep color will change to orange when active to indicate the engine is computer controlled.



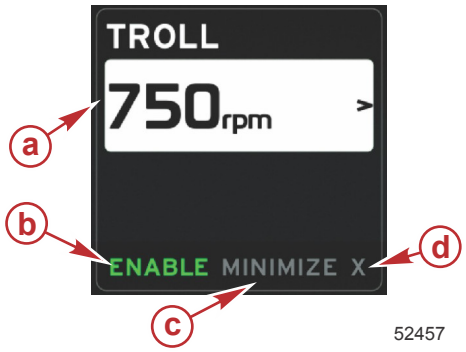
52278

a - Not active
b - Active

Troll—User-Selected Data Area

Troll will modify the user-selected data area of the screen when active.

- Elements within the user-selected data area will change to allow the user to set-up:
  a. RPM set-point
  b. Troll status enable or disable



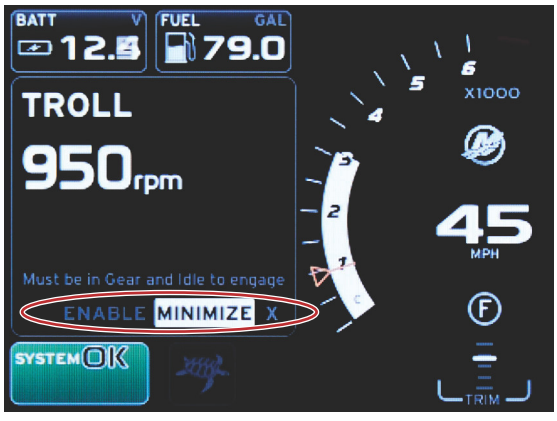
52457

a - Set-point value
b - Enable or disable
c - Minimize
d - Exit

Troll Navigation

Troll mode will have a modified navigation system similar to Smart Tow. The user-selected data area footer allows the operator to enable or disable troll, minimize, or exit the program element. Footer navigation will follow the same basic navigation selection strategy as other features.

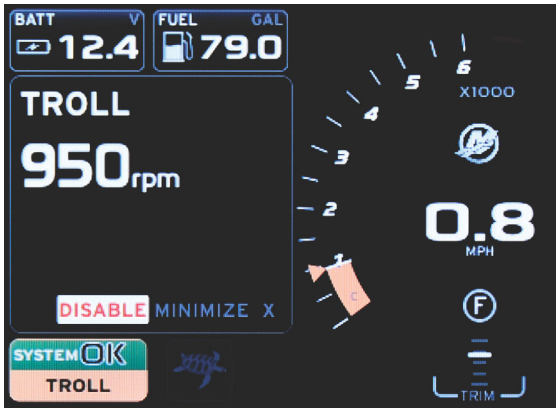
1. Use the arrow buttons to go through the selections in the footer.



60847

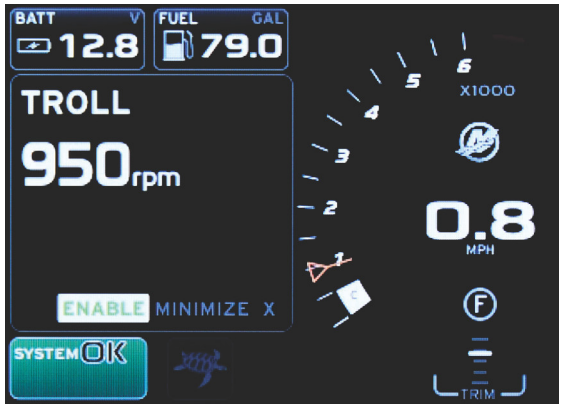
2. Press enter to activate the selection.

a. Enable or disable the element feature.



60846

Enable selected



60845

Disable selected

b. Selecting disable will return throttle control to the operator. Troll cannot be activated again until the throttle is placed in the idle position while still in gear.

c. Minimize will hide the troll data and display TROLL in the system status field. This allows the operator to display information from other selected icons.

3. The set-point adjustment selection field will be the default location at troll start-up. After the operator makes adjustments to the desired settings, use the arrow buttons to the enable/disable selection in the user-selected data area footer.

   a. Use the arrow buttons to move between the set-point selection and the footer.

   b. When the selection tab is above the footer navigation area (set-point field), the operator only needs to use the arrow buttons to make RPM or speed adjustments. There is no need to press enter to engage the new setting.

4. Minimize is a feature that allows the operator to use the troll feature while displaying additional data in the user-selected data area.

   IMPORTANT: Set-points cannot be adjusted when troll is minimized.

   a. Scroller bar icon selection is limited. Items that are not accessible will be grayed out when troll is active.

   b. If autopilot is active, and troll is minimized, the system status field will display TROLL.

60848

- Troll data will be displayed over autopilot settings if the user selects the system status field.
- If an autopilot pop-up notification occurs or the operator uses the autopilot CAN trackpad, autopilot data will automatically fill the user-selected data area. The operator will have to minimize to hide the pop-up data.

5. After minimize is activated, the system status field will display TROLL.
6. When exit is selected while displaying troll element, the troll feature will be disabled. The troll icon will be displayed next to the system status field until another icon is selected from the scroller bar.

Autopilot Screens

Autopilot Screens Overview


57380

VesselView is a display extension for autopilot features and joystick operations. All functionality of these piloting features are controlled through the Mercury Marine autopilot control area network (CAN) pad. VesselView will show if the mode is active or in standby; pop-ups will appear as the vessel arrives at a waypoint asking to acknowledge the turn, and display text on how to adjust the engine and drives to achieve maximum efficiency.

- Pressing any button on the autopilot CAN trackpad, VesselView will default to displaying the autopilot screen.
- Autopilot will be actively displayed when this feature is turned on. All modes and function are controlled with the CAN pad.

Autopilot Screens Navigation

Autopilot screens will have a modified navigation system. Information will be displayed on two pages of data. Page indicators and X will be the only selections available.

- Page 1 will contain base autopilot information.
- Page 2 will contain additional navigation data.
- Use the X to hide autopilot data and display the autopilot mode in the system status field. This allows other information to be displayed in the user-selected data area.

52461

a - Pages
b - Minimizes autopilot data

Minimize Autopilot

When minimize is selected in the user-selected data area, autopilot data will be removed. You can select limited items from the scroller bar for display in the user-selected data area. The last user-selected data will be displayed by default.

- Scroller bar selection limited to: Expand, ECO, Fuel Management, Trip Log, Voltage, Navigation, Pressure, Temperature, Tanks, Cruise, Genset, and Settings.

  NOTE: *Available scroller bar items are based on the engine selected in the Setup wizard.*
- When ECO is active and autopilot is minimized, the system status field will display AUTO.
- Items in the scroll bar that cannot be selected will be gray when Autopilot is active.
- When an autopilot pop-up occurs, or a button is pressed on the autopilot CAN pad, autopilot data will automatically fill the user-selected data area. You must select X to hide the data.
- The system status field will display what mode autopilot is in: track, auto, waypoint sequence, or standby. Waypoint sequence will display orange in the system status field, all other modes will display gray.

Notes:

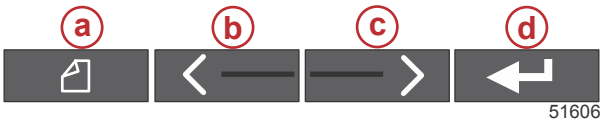
Section 4 - Setup and Calibrations

Table of Contents

Settings Menu Navigation

Menu Navigation

1. Press the pages button.
2. Press the right arrow button several times until the last icon is highlighted. The last icon is the Settings menu.
3. Press the enter button.
4. Press the left or right arrow buttons to navigate to the pages.
5. Press the enter button to enter the menu.
6. After changing the settings, press the pages button several times to return to the settings icon.



a - Pages button
b - Left arrow button
c - Right arrow button
d - Enter button

System

The following table outlines the navigation of the **Settings** menu. An asterick (*) indicates that there is an additional selection to be made at that point in the menu.

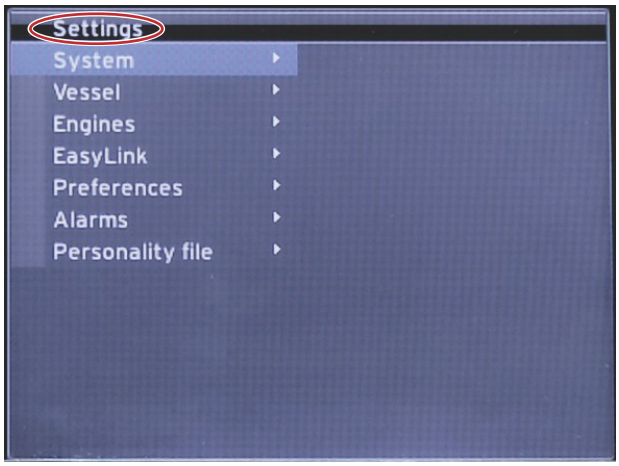
System				
Language >	Select the desired language	—		
About >	Display software version	—		
Helm 1, Device 1 >	Select helm position >	Cancel or Save and Restart		
	Select device position >	Cancel or Save and Restart		
Setup wizard >	Next to begin Setup wizard >	*		
Restore defaults >	All Settings >	Selected—dot, Not selected—empty		
	Engine Limits >	Selected—dot, Not selected—empty		
	Alarm History >	Selected—dot, Not selected—empty		
Network >	Auto Select >	Sources >	Data Source Selection >	*
Simulate >	On—checkmark, Off—no checkmark	*		
Time >	Local time offset	—		
	Time Format >	12 hr or 24 hr		
	Date Format >	mm/dd/yyyy or dd/mm/yyyy		

Changes to any of the settings can be made at any time using the **Settings** menu. All drop-down and flyout menus can be navigated by using the LEFT and RIGHT arrow buttons and the ENTER button.

Language

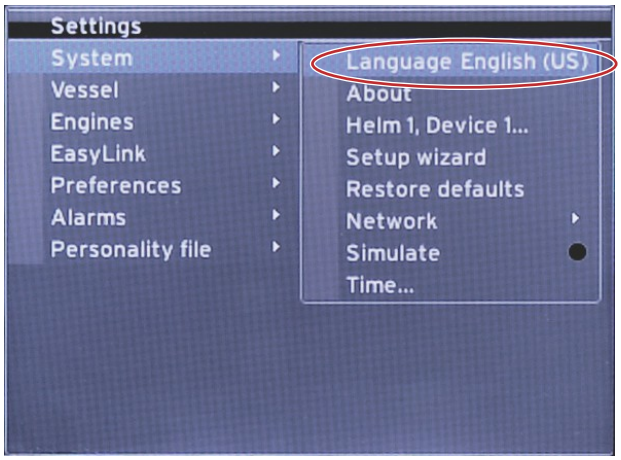
Select the language that will be displayed on VesselView.

1. With the settings icon highlighted, press the ENTER button. The **Settings** menu screen will appear.



56791

2. Press the ENTER button to access the flyout menu of **System** options and select **Language**.



56825

About

View the current software version of VesselView.

Helm 1, Device 1

Set the unique identity of VesselView. This is critical on boats with multiple helms or multiple VesselViews, to ensure proper data transmission over the network.

Setup Wizard

A convenient and easy to use configuration tool. Setup wizard guides you through the required vessel information selections, which determine the features and options available to the operator.

- Import configuration from a micro SD card
- Engine setup
  - Select engine type
  - Select engine model
  - Vessel has a joystick, yes/no
  - Select number of engines
- Display setup selects which engines will be displayed by VesselView
- Device setup assigns the identification and location of the VesselView
- Units setup selects the units of measure that will be displayed, metric or US standard. Units of measure can be customized at any time using the **Preferences** menu.

- Tank configuration sets tank type, capacity, and names for vessel tanks
- Speed setup allows selection of the type of device that will send speed data to the VesselView
- Finishing Setup wizard will save all selections and return to the navigation screen

Restore Defaults

Allows the operator to clear all settings, clear alarm history, or clear engine limits.

NOTE: *Clearing engine limits has no effect on Engine Guardian protection. Engine limits are set to an operator's preference, and can be modified or cleared at any time.*

Network

Network settings allows the user to select numerous data sources, scan the CAN bus and NMEA backbone for installed data reporting (input and output) components, and review diagnostic reports—diagnostics shows data on errors and overruns on the CAN and NMEA communication networks. This can be useful for a skilled technician diagnosing CAN and NMEA communication errors. Device List shows all CAN bus and NMEA backbone data reporting components that are recognized.

- Auto Select will scan the network and identify any compatible devices.
- Sources allows the operator to select the device which will transmit data to the VesselView. The default selection for each item is the VesselView.

Data Source Selection		
GPS >	All data >	Auto
Vessel >	Heading, Vessel fuel rate, Rudder angle, and Trim tabs >	
Engine >	Port and Starboard >	Temp, Oil Temp, Boost Pressure, Oil Pressure, Water Pressure, RPM, Alternator, Fuel Rate, Engine Hours, Predictive General Maintenance, Trim Status, Malfunction Indicator Light, Engine Performance
Fuel Tank >	Port Fuel and Starboard Fuel >	
Fuel Tank >	Port and Starboard >	Fuel Level and Fuel Remaining
Water Tank >	Water >	Fresh Water Level
Live Well >	Live Well >	Live Well Level
Battery >	# >	Battery Voltage
Speed/Depth >	Pitot Speed and Depth >	Source
Log/Timer >	Water Distance >	Calculated
Environment >	Outside Temperature >	Source

- Device List will display all of the components discovered during the Auto Select process.
- The Diagnostics option displays current activity and load percentage on the CAN networks.
- Magnetic variation can be set to Auto, or the variation can be changed + or – up to 5 digits, including two decimal points.
- Smart Contextual Enabled turns the display of the digital engine RPMs on or off in the user-selected data area.
- CAN H can be turned off for the purpose of diagnosing communication issues. During normal operation, this feature is always selected on.

Simulate

Simulate mode takes VesselView off the network, and generates random data on the screen. Any data shown should not be regarded as accurate, or be used in the navigation of the boat. Simulate can be used to help the operator become familiar with VesselView before using it out on the water.

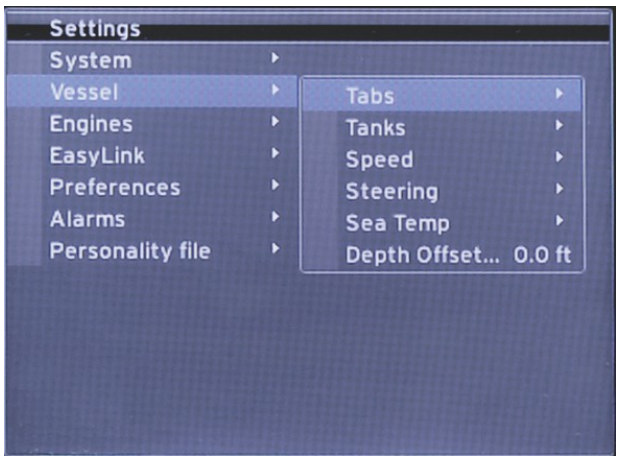
Time

Time settings can be changed through the selection of: Local time, 12/24 hour format, and Date format.

The greater than sign (**>**) indicates additional menu choices. An asterick (*****) indicates additional information on this settings menu item.

Vessel

56815



56817

Vessel allows the operator to assign the source of tab data, configure tank names and capacities, determine speed source, assign the speed and sea temperature, and set the depth transducer offset, source of engines, the number of fuel tanks, and the total fuel capacity. The fuel capacity can also be reset after refueling.

The greater than sign (**>**) indicates additional menu choices. An asterick (*) indicates additional information on this settings menu item.

Vessel				
Tabs >	Source >	Starboard Calibration >	Calibration Window >	Reset, Save, or Cancel
		Outboard Calibration >	Calibration Window >	Reset, Save, or Cancel
Tanks >	Tank name and position >	Calibration >	Calibration Window >	Reset, Save, or Cancel *
Speed >	Speed Source >	Strategy or GPS >	GPS >	CAN P or CAN H
		Pitot >	Pitot Source >	Sensor Type
		Paddle wheel >	Paddle wheel Source >	Sensor—Current or Legacy
Steering >	Steering Angle Source >	Selection		
	Show >	Dot—display, Empty—hide		
	Invert Steering >	Dot—yes, Empty—no		*
	Offset >	Offset options >	Save or Cancel	*
Sea Temp >	Selection >			
Depth Offset >	Offset >	Offset options >	Calibration >	Save or Cancel

Tabs

Tabs data source can be selected with this setting. Tab data sources include; tabs, TVMs, and PCMs.

The following are the positions of the Tab source options.

1. PCM0 = starboard outer engine
2. PCM1 = port outer engine
3. PCM2 = center or starboard inner engine
4. PCM3 = port inner engine
5. TVM = pod drive
6. TAB = tab module

The Show option will determine if the tab data is displayed on-screen, checked = yes, unchecked = no.

Tab calibration allows the operator to put the tabs in their uppermost and lowermost positions and record the percentages. This is useful for determining the true 0° trim position—the point at which the tabs are parallel with the bottom of the vessel. Correctly calibrated tabs will show an accurate position of the sliders on the screen.

To calibrate the tabs, trim the tab parallel to the hull, record the reading, this will be the tab's actual 0%. Trim the tab all the way down, record the reading, this will be the tab's actual 100%. Select SAVE to keep the new calibrated tab data.

Tanks

There are many situations in which a tank may need calibration; odd shaped tanks, V-bottomed tanks, stepped-sided tanks, and even a tank's aspect when the boat is in the water. Floats and senders can send inaccurate data to the operator, causing problems with fuel and other volume display. The most accurate way to achieve tank calibration is to start with an empty tank with a known capacity. Pump one quarter of the capacity and record the float or sender position. Repeat this procedure in one quarter increments, recording the float or sensor position each time, until the tank is full.

Configure Tanks is covered during the Setup wizard process, but changes can be made at any time.

Tank Calibration

Tank calibration allows the operator to adjust the full through empty readings of a tank. When a tank is highlighted, press ENTER to activate the calibration screen.

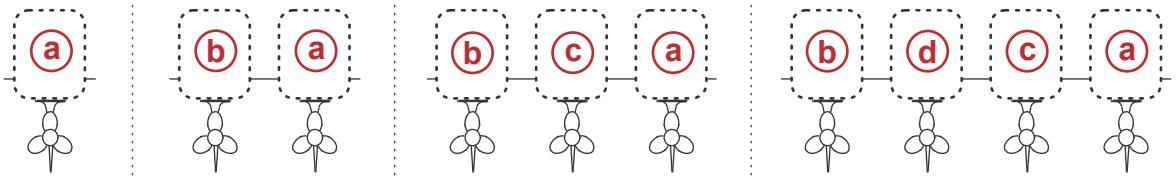
The default readings are in the second column, and can be selected by pressing the arrow buttons. In the following example; we know that the fuel tank is full, but we are receiving a reading of 79 percent full. Select the RECORD button in the 100 percent row, VesselView will now consider a reading of 79 percent as full, and adjust the half and empty readings accordingly. When the level of a tank is known to the operator, tank calibration can be used to correct the gauge reading to match the known level at any time.

Speed

Speed source settings are covered during the Setup wizard process, but selection of GPS, pitot, and paddle wheel sources can be changed with this menu. Strategy and GPS are the options. If the vessel is equipped with a GPS—connected to the CAN network, choose this option. If the vessel is equipped with a pitot sensor and/or a paddle wheel, this option should be selected. A speed strategy using pitot sensors and paddle wheels is covered later in this section.

Speed source has the option of choosing a GPS and the GPS source, the CAN P or the CAN H network. A strategy using a pitot sensor and/or a paddle wheel can also be selected. Selecting the pitot or paddle wheel options brings up a selection of sources.

Positions of the PCM options is shown in the following illustration.



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a - PCM0
b - PCM1
c - PCM2
d - PCM3

The speed-through-water (STW) threshold is the approximate transition speed where the calculations from a paddle wheel switch over to another source—GPS or pitot. The default speed can be changed by selecting the field and using the on-screen keypad to enter a new value.

Steering

Steering source data can be selected to come from either the PCM or the TVM, with options to display the data on-screen, to invert steering input, and to establish a steering offset degree.

The Invert steering option is helpful when there is a VesselView which is rear-facing. In this case the steering data will match the operator's point of view.

Steering Offset is used to align the outboard, sterndrive or inboard to 0°. When the drive is positioned perpendicular to the hull, the steering angle may not match the steering sensor on the drive. To adjust this variance, select the Offset tab. The Steering Angle Calibration box appears. Selecting the Calibrated row Zero button will apply the offset. Note that the offset does not change on the display indicator until the SAVE button is selected.

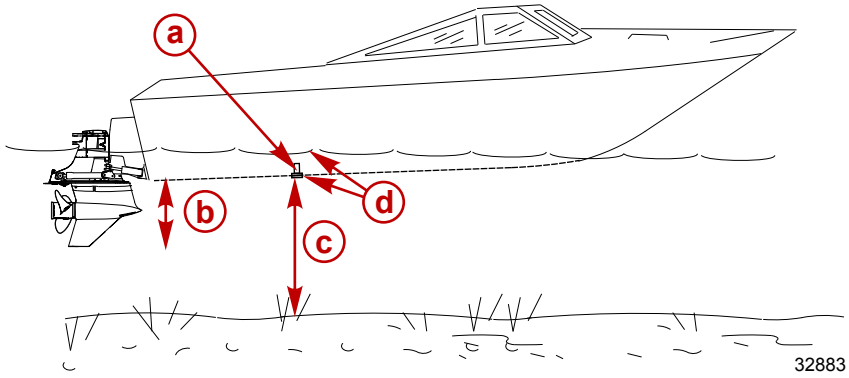
Sea Temp

Depending on the type of water temperature sender the vessel has, the operator can select the source of the data. PCM options are for vessels equipped with a SmartCraft sensor. The Airmar® options are for vessels equipped with the sensor hooked up to the 4-pin diagnostic connection on the engine. The chart shows the position of the engine that is being used to transmit temperature data to the VesselView.

SmartCraft sensor		Airmar sensor	
PCM0	Starboard outer engine	Airmar0	Starboard outer engine
PCM1	Port outer engine	Airmar1	Port outer engine
PCM2	Starboard inner engine or center	Airmar2	Starboard inner engine
PCM3	Port inner engine	Airmar3	Port inner engine

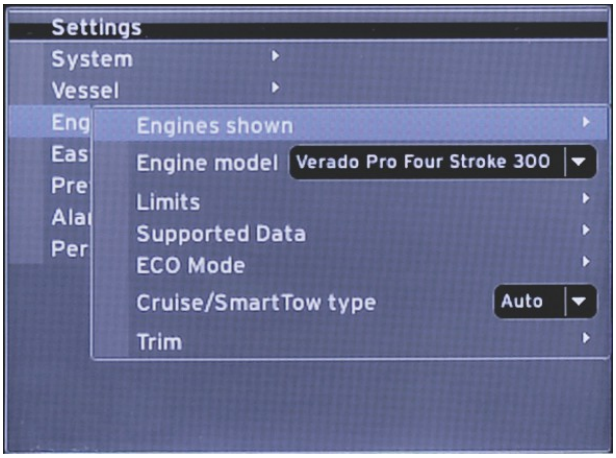
Depth Offset

Depth Offset is the distance from the tranducer to the actual waterline. The offset default setting is 0.0 ft. To set an offset below the transducer, subtract from the depth offset. To set an offset above the transducer, add to the depth offset.



- **a -** Depth transducer
- **b -** To set an offset below the transducer, subtract from the depth offset
- **c -** No offset. Distance from depth transducer to bottom.
- **d -** To set an offset above the transducer, add to the depth offset

Engines



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Engines allows the setting of the engine type and model. Engine limits can be set using minimum and maximum values for operating parameters. Selection of supported data items can be turned on or off from this menu. ECO, Cruise, Smart Tow, and trim settings are adjusted through the **Engines** menu **Settings**.

The greater than sign (**>**) indicates additional menu choices.

Engines				
Engines shown >	Select >	Port, dot—yes, empty—no		
		Starboard, dot—yes, empty —no		
Engine model >	Select			
Limits >	RPM >	Min, Max, and Warnings Options >	Reset, Save, or Cancel	
	Fuel Rate >	STBD or PORT >	Min, Max, and Warnings Options >	Reset, Save, or Cancel
	Coolant Temp >	Min, Max, and Warnings Options >		
	Oil Temp >	Min, Max, and Warnings Options >	Reset, Save, or Cancel	
	Oil Pressure >	Min, Max, and Warnings Options >	Reset, Save, or Cancel	
	Water Pressure >	Min, Max, and Warnings Options >	Reset, Save, or Cancel	
	Battery Voltage >	Min, Max, and Warnings Options >	Reset, Save, or Cancel	
	Intake Temp >	STBD or PORT >	Min, Max, and Warnings Options >	Reset, Save, or Cancel
	Boost Pressure >	STBD or PORT >	Min, Max, and Warnings Options >	Reset, Save, or Cancel
	Trans Oil Pressure >	STBD or PORT >	Min, Max, and Warnings Options >	Reset, Save, or Cancel
	Trans Oil Temperature >	STBD or PORT >	Min, Max, and Warnings Options >	Reset, Save, or Cancel

Engines				
Supported Data >	Actual Gear >	Dot—yes, empty—no		
	Boost Pressure >	Dot—yes, empty—no		
	Fuel Pressure >	Dot—yes, empty—no		
	Gear Pressure >	Dot—yes, empty—no		
	Gear Temperature >	Dot—yes, empty—no		
	Load Percent >	Dot—yes, empty—no		
	Manifold Temperature >	Dot—yes, empty—no		
	Oil Pressure >	Dot—yes, empty—no		
	Oil Temperature >	Dot—yes, empty—no		
	Throttle Percent >	Dot—yes, empty—no		
	Water Pressure >	Dot—yes, empty—no		
ECO Mode >	Fuel Economy Stability >	Enter Data		
	RPM Stability >	Enter Data		
	RPM Window Minimum >	Enter Data		
	RPM Window Maximum >	Enter Data		
	RPM Target Proximity >	Enter Data		
	Trim Target Proximity >	Enter Data		
Cruise/SmartTow Type >	RPM—Auto, RPM, or Speed			
Trim >	Show—PORT and STBD >	Has Trim—dot—yes, empty—no	Calibration Data >	Reset, Save, or Cancel

Engines Shown

Engines shown is covered during the Setup wizard process, but display options can be changed in the **Engines** menu settings at any time. VesselView can display up to two engines, depending on the number of engines chosen during the Setup wizard process. The operator can select which engines are displayed. Checking or unchecking the engine selection will determine which engines are displayed on the VesselView.

Engine Model

Engine model settings allows the user to change power package descriptions. Engine model is covered during the Setup wizard, but changes can be made anytime. Any changes made here may make other settings and display options unavailable in VesselView. Use the rotary knob to help scroll through the list of engines, press the rotary knob to make a selection.

Limits

Limits helps set specific ranges for many engine data parameters, such as; RPM, coolant temperature, oil temperature, battery voltage, and boost pressure. Changes made to limits will not affect the engine package or the operation of Mercury's Engine Guardian programming. The actual engine limits are determined by the factory programmed control module on the engine.

Setting	Description
Min:	The value of the base of the on-screen graph
Max:	The value of the top of the on-screen graph
Warning low:	The value at the top of the lower red color section of the on-screen graph
Warning high:	The value at the bottom of the upper red color section of the on-screen graph

Supported Data

Supported Data settings allows the operator to select which engine and drive information is displayed on the screen. Data boxes are preselected based on the engine model selected, but can be changed at any time. Supported data varies from engine to engine.

ECO Mode

ECO Mode settings allow the adjustment of the fuel economy and RPM display refresh intervals, adjustment of the desired RPM range, and the accuracy of the RPM and trim targets. Defaults are based on the engine model selected in the Engine model selection menu. See **Section 3 - ECO Mode** for additional information.

Cruise/SmartTow Type

Cruise/SmartTow type settings lets the operator select the source from which VesselView receives speed data—GPS, RPM, or Auto. The default selection is auto. VesselView monitors data from the speed source selection entered during the Setup wizard.

Trim

Trim settings allows the operator to select which engine's or drive's trim position is displayed on the VesselView screen. When trim is unchecked in the **Settings** menu, the onscreen trim display is replaced with an additional data box.

Trim settings also allows calibration of a drive or engine's trim display range. VesselView shows a graduated scale in the user-selected data box as well as a graduated slider on the bottom of the screen. Trim percentages are represented by the lighter gray marks. Tilt is represented by the darker marks. The white bar on the graph indicates the actual trim position.

Using the calibration window, trim percentages can be fine-tuned to better display actual limits on-screen in the trim status fields.

The point at which the trim range and the tilt range meet is the point where trim becomes tilt. This transition percentage point can be adjusted to more accurately reflect the position of the slider bar in the trim scale display.

EasyLink

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Vessels with SC 100 gauges must have the easy links enabled (dot) in VesselView for data to be received at the SC 100 gauge.

EasyLink		
Port, Starboard >	Engine and Transmission >	Port or Starboard—On—dot, off—no dot
	RPM sync >	Port or Starboard—On—dot, off—no dot
	Fuel tank 1 >	Port or Starboard—On—dot, off—no dot
	Fuel tank 2 >	On—dot, off—no dot
	Oil tank >	On—dot, off—no dot
	Fresh Water >	On—dot, off—no dot
	Wastewater tank >	Gray tank 1, Black tank 1—On—dot, off—no dot

EasyLink settings allow the link gauge connectors on the VesselView harness to be used to transmit data to link gauges at the helm. Four link gauge connections on the VesselView harness are labeled; SYS LINK STBD and SYS LINK PORT.

The port and starboard link connectors can be chosen to transmit data that comes from sources that are not the same as the link harness label. This can be helpful when similar gauges are located beyond the length of the link gauge female gauge extension harness.

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Example of EasyLink connectors on a VesselView harness

Engine and Transmission

Engine and transmission data can be selected to display on a compatible link gauge by selecting the harness connection that will be used to transmit the data.

RPM Sync

RPM synchronization brings multiple engines to the same RPM level utilizing the SYNC button on the CAN trackpad. If the vessel has a SYNC link gauge, the operator can see the needle move until SYNC is achieved. The default position of the link harness connection is PORT for this gauge, PORT should always remain checked.

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Tanks

During tank setup, information was entered that defined the location, name, and capacity of individual tanks. Link gauge settings allow the operator to select which link harness will transmit data from the tank tab selected. Tank tabs with an arrowhead indicate that tank was defined during tank setup in the **Vessel Settings** menu, and can be assigned an EasyLink location.

Preferences

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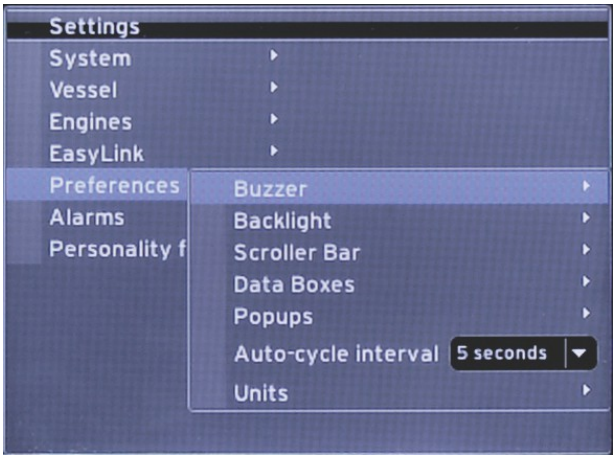

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The **Preferences** menu allows the operator to set beep levels, change backlighting settings, activate scroller bar items, populate data boxes, customize pop-up screens, and choose units of measure.

The greater than sign (**>**) indicates additional menu choices.

Preferences		
Buzzer >	Key beeps—Off, Quiet, Normal, or Loud	—
	Alarm beeps—On—dot, off—no dot	—
Backlight >	Level >	Select 0%—100%
	Night mode >	On—dot, Off—no dot
	Network update >	On—dot, Off—no dot
	Local gain >	Input 0%—100%

Preferences		
Scroller Bar >	Auto-hide delay >	Select 5, 10, 15, or 20 seconds
	Item visibility >	X-Pand—On—dot, Off—no dot
		Temperatures—On—dot, Off—no dot
		Pressure—On—dot, Off—no dot
		Voltages—On—dot, Off—no dot
		Fuel—On—dot, Off—no dot
		Tanks—On—dot, Off—no dot
		Advanced—On—dot, Off—no dot
		Performance—On—dot, Off—no dot
		Trim and Tabs—On—dot, Off—no dot
		Trip Log—On–On—dot, Off—no dot
		Navigation—On—dot, Off—no dot
		Generator—On—dot, Off—no dot
		ECO—On—dot, Off—no dot
		Autopilot—On—dot, Off—no dot
		Cruise—On—dot, Off—no dot
		Troll Control—On—dot, Off—no dot
		SmartTow—On—dot, Off—no dot
Data Boxes >	***NOTE:*** *Available data boxes are power-package dependent. Select the options you want displayed.*	—
Pop-ups >	Warnings >	On—dot, off—no dot
	Joystick Piloting >	On—dot, off—no dot
	Trim >	On—dot, off—no dot
	Trim pop-up time >	Select 2, 5, or 10 seconds
Auto-cycle interval >	Select 1, 5, or 10 seconds	—
Units >	Distance—nm, km, or mi	—
	Distance small—ft, m, or yd	—
	Speed—kn, kph, or mph	—
	Wind speed—kn, kph, mph, or m/s	—
	Depth—m, ft, or fa	—
	Altitude—m or ft	—
	Heading—°M or °T	—
	Temperature—°C or °F	—
	Volume—L or gal	—
	Economy—Distance/Volume, Volume/Distance, mpg, g/mi, km/L, or L/100km	—
	Pressure—in. Hg, bar, psi, or kPa	—
	Baro Pressure—in. Hg, mb, or hPa	—

Buzzer

Buzzer setting allows the user to set the volume level for key touch beeps. The beep is an auditory acknowledgement that a selection has been made.

Alarm beeps can be turned on or off from this tab. All alarms will be displayed on the VesselView screen regardless of the alarm beep status. Alarm beep preferences only apply to alarms that are not driven by the Mercury Guardian system. For example, low fuel level.

Backlight

Backlight preferences can be set with this menu.

- The light level of the display can be changed in ten percent increments from 10 to 100 percent.
- Night mode is available for better low light or dark viewing.

- Network update will display all link gauges and devices connected to the VesselView at the same level percentage as the operator selects in the Level tab.
- Local gain can only be used to adjust the VesselView display independent of other displays and gauges, even if the Network update box is checked. In some lighting conditions, the VesselView display may be too bright for comfortable viewing, but other displays and gauges may need to maintain their level of brightness. Follow these instructions to apply Local gain to the VesselView display:
  a. Select Level and choose a percentage of brightness.
  b. Select Local gain and input the percentage chosen in step **a**, on the keypad, select **OK**.
  c. Return the Level option to **100%**. The VesselView display will remain dimmed while all networked devices and gauges will maintain their brightness.
  d. To return the VesselView to full brightness, select Local gain and input **100** and select **OK**.
  e. Select the Level tab and choose any percentage other than 100 and press Enter. Select **100%** and the unit will return to 100% brightness.

Scroller Bar

Scroller Bar settings offers an auto-hide delay of five to thirty seconds before it is minimized if no selection is made.

Scroller Bar Item visibility displays the checked items to appear in the scroller bar menu at the bottom of the VesselView screen. Scroller Bar items are preselected based on the engine selection during the Setup wizard, but any Scroller Bar items can be checked on or off at any time.

Data Boxes

Data Boxes display up to three items of data on the screen.

The number of data boxes can be increased from one up to three, depending on selections made in the Settings menu. When one data box is displayed it appears in the upper left of the screen. If the option for additional data boxes is grayed out, then all available space is currently being used by the VesselView. To free up space on the screen, use the following directions.

To activate a second data box, enter the Settings menu. Select Vessel>Tabs>Show. Uncheck the Show option to remove the Tabs data from the screen. This area of the screen will be replaced by the second data box.

To activate the third data box, enter the Settings menu. Select Engines>Trim>Show. Uncheck the Show option to remove the Trim data from the screen. This area of the screen will be replaced by the third data box.

NOTE: *The Fuel Used data box cannot have the value reset. Fuel Used, shown as FULUSD, is a value that will continue to increase throughout the life of the display. Only a Master Reset will clear the Fuel Used data value. In place of showing the Fuel Used data box, select the Fuel Used Trip data box. The reset procedure can be found in the Trip Log icon in the Scroller Bar. Selecting RESET in the user-selected data area will clear any value on the display. Fuel Used Trip, shown as FULTRP, can be reset as often as desired using this procedure.*

Pop-ups

Pop-ups allows the operator to select the types of pop-ups that will appear on the screen. Choice of pop-ups include; warnings, Joystick Piloting, and trim information.

Joystick Piloting alerts will appear in the system status tray at the bottom of the screen, to inform the operator that an autopilot feature is engaged.

The Warnings checkbox allows the operator to have any engine faults displayed full size in the user-selected data area when checked. Unchecked, the fault will appear in the system status field in the lower left of the screen.

Auto-Cycle Interval

Auto-cycle interval determines the duration that data in the user-selected data field is displayed, options are 1, 5, or 10 seconds.

Units

Units of measure can be independently selected. The operator can choose from U.S. standard, metric, or nautical.

Alarms

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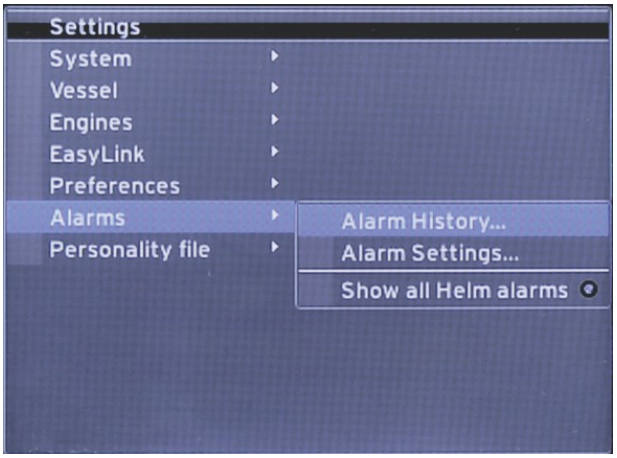

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Alarms allows you to check the history for any alarm, turn a specific alarm on or off, or show all the alarms. Use the arrow buttons to highlight the option and press the enter button to enable or disable the alarm.

Alarms			
Alarms >	Alarm History	Shows legacy alarms	***NOTE:*** *See text following table.*
	Alarm Settings >	***NOTE:*** *These settings must be enabled to receive alarms.*	
		Shallow water—On—dot, Off—no dot	
		Deep water—On—dot, Off—no dot	
		Speed through water rationality fault—On—dot, Off—no dot	
		Fuel remaining low—On—dot, Off—no dot	
		Fuel Tanks >	PORT FUEL low—On—dot, Off—no dot
			PORT FUEL high—On—dot, Off—no dot
			STBD FUEL low—On—dot, Off—no dot
			STBD FUEL high—On—dot, Off—no dot
		Oil tanks >	Oil low—On—dot, Off—no dot
			Oil high—On—dot, Off—no dot
		Fresh water tanks >	Fresh water low—On—dot, Off—no dot
			Fresh water high—On—dot, Off—no dot
		Gray water tanks >	Gray water low—On—dot, Off—no dot
			Gray water high—On—dot, Off—no dot
		Black water tanks >	Black water low—On—dot, Off—no dot
			Black water high—On—dot, Off—no dot
		Live well water tanks >	Live well low—On—dot, Off—no dot
			Live well high—On—dot, Off—no dot
	Show all Helm alarms	On—dot, Off—no dot	

When in **Alarm History**, press and hold the **PAGES** button. A pop-up window will appear with the option to clear all faults. Select it and the history will be cleared. Alarm history and data cannot be saved or transferred from the VesselView unit.

Alarm Settings allows the operator to select and change the parameters—minimums and maximums, as to when an alarm will sound.

The **Show all Helm alarms** checkbox can be turned on—dot, or off—no dot.

Personality File

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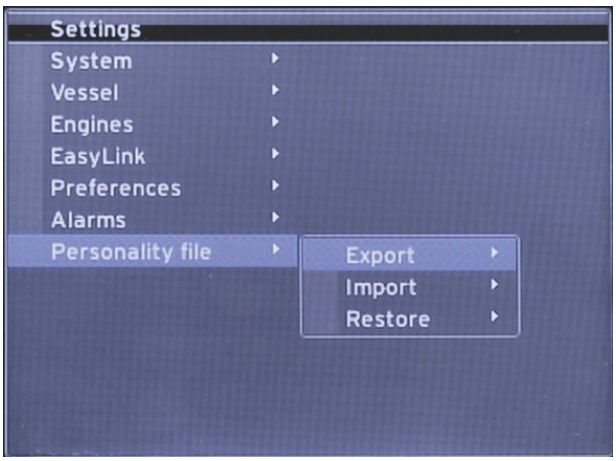

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Within the **Personality Settings** menu, operators can Export or Import a vessel personality. Vessel personalities are files used by boatbuilders and boat owners to set all of the preferences and settings in VesselView, to optimize the systems onboard. The micro SD card port is used to transfer files to and from the VesselView. Importable personalities will be detected by VesselView from the micro SD card, and the operator will be able to scroll through the list and select the appropriate personality. To export a personality file, the micro SD card must be inserted into the VesselView.

The restore option can only be used by trained installers to restore OEM settings. A VesselView that is configured by a boatbuilder or dealer, contains a file that is specific to the vessel, and can be used to bring the unit back to its configured settings. Contact an authorized dealer, if this option is needed.

Personality File		
Personality file >	Export >	To new file...
	Import >	Suitable file must be on SD card
	Restore >	***NOTE:*** *Only used by a trained technician.*

Export

Exporting the personality file from the VesselView is done by selecting the Export option. A window will appear asking to export the personality. This will create a file which contains all of the settings and preferences of the VesselView. This file can be imported, in the future, to return the VesselView back to the current personality.

Import

To import a personality file, verify the SD card is inserted into the VesselView. Select Import and choose from the displayed personalities. All personalities on the SD card must be on the root level, and not in any folders. Importing a personality file can also be done during the Setup wizard process.

Restore

The restore option can only be used by trained installers to restore OEM settings. A VesselView that is configured by a boatbuilder or dealer contains a file that is specific to the vessel, and can be used to bring the unit back to its configured settings. Contact an authorized dealer, if this option is needed.

Notes:

Section 5 - Warning Alarms

Table of Contents

5

Warnings—Faults and Alarms

All Mercury warnings—faults and alarms will be shown regardless of what screen is displayed at the time of the alarm. When an alarm is activated, the system status field will display the alarm text and icon. Faults, along with their descriptive short text, long text, and action text, will be displayed full screen.

- When a fault occurs:
  a. The system status field will turn red and show the warning icon and text.

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  b. Fuel and depth faults will have additional options and will be described in **Fuel Critical Alarm** and **Depth Alarm**.
  c. A level 3 fault—trim, navigation, ECO, fuel, can be turned off or on by the operator in the Settings menu. By default it is turned on. If the fault is turned off in the Settings menu, the faults will only show in the system status field.
  d. All level 4—Guardian faults, will always be displayed regardless of what is selected in the Settings menu.
  e. If the fault is related to emissions control, the engine icon will be displayed in the system status field.
- When the operator selects a fault in the user-selected data area:
  a. The fault title with the warning icon will be displayed at the top.
  b. Short text fault description and the fault location—engine, will be displayed below the title.
  c. When more than one fault exists, press the PAGES button to access the faults. Use the arrow keys to navigate to each fault.

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a - Fault title with warning icon
b - Short text or legacy text
c - Engine fault location
d - Action text
e - Number of faults

Fuel Critical Alarm

The fuel alarm is managed by VesselView, through the Settings>Alarms>AlarmSettings>, not by the engine ECM/PCM.

- Notification properties and fuel level alarms can be set in the Settings menu.
- If the operator has fuel selected as a constant data field in location #2—refer to **Screen Display Locations and Descriptions**, then the fuel data field will show the warning.
- The warning icon will replace the fuel icon and the data field will remain red.
- If the operator does not have fuel displayed as a constant data field in location #2, but it is active as a warning fault, then the system status field will display a red field and show FUEL.
- The operator can also select the fuel warning as a user-selected data area pop-up in the Settings menu. Selecting the X will minimize the fuel level alarm. The fault will still be displayed in one of two locations, depending on the screen set-up.

Depth Alarm

The depth alarm is managed by VesselView, through the Settings>Alarms>AlarmSettings>, not by the engine ECM/PCM.

- Notification properties and depth warning levels can be set in the Settings menu.
- If the operator has depth displayed as a constant data field in location #1—refer to **Screen Display Locations and Descriptions**, then the depth data field will show the warning.

- The warning icon will replace the depth icon and the data field will remain red.
- If the operator does not have depth displayed as a constant data field in location #1, but it is active as a warning fault, then the system status field will display a red field and show DEPTH.
- The operator can also show the depth warning as a user-selected data area pop-up in the Settings menu. Selecting the X will minimize the depth alarm. The fault will still be displayed in one of two locations depending on the screen set-up.