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Section 1 - Getting Started

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VesselView Specifications

Component	Specification	
Power/digital communications	2–24 pin VesselView female harness connectors	
USB port	V1.1 or V2.0 (that is stated to be backwards compatible to V1.1) **IMPORTANT: VesselView unit will not recognize memory sticks that are only V2.0 compatible.**	
Ethernet port	For future option	
VesselView unit dimensions	Module	180.5 mm x 112.0 mm (7.1 in. x 4.4 in.)
	Bezel	197.8 mm x 132.5 mm (7.8 in. x 5.2 in.)
Net weight (without harness)	0.82 kg (1.8 lb)	

Overview

IMPORTANT: This VesselView is compatible with products manufactured by Mercury Marine Outboards, Mercury Marine MerCuiser, and Cummins MerCruiser Diesel. Some of the functions explained in this manual will be disabled depending on the power package it is connected to.

VesselView is a comprehensive boat information center that can display information for up to three gasoline or diesel engines. VesselView can also link gauge support for a fourth gasoline engine. It continuously monitors and reports basic operating data including detailed information such as seawater 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 device to provide up to the minute navigation, speed, and fuel-to-destination information.

VesselView is equipped with a USB port that enables configuration settings to be saved to, or imported from, a USB memory stick.

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VesselView display screens are grouped into three categories:

a - **Propulsion** button enables you to quickly access the propulsion screens that are related to propulsion, trim, tabs, and engine performance

b - **Vessel** button enables you to quickly access the vessel screens that are related to fuel use, tank levels, and other items such as generators

c - **Environment and Navigation** button enables you to quickly access the environment and navigation screens that are related to depth, navigation, and GPS

Keypad Functions

Mounted on the VesselView are seven buttons and an arrow pad for easy navigation through the screens and pages.

a - "**X**" button
b - Check button
c - Arrow pad
d - Propulsion button
e - Vessel button
f - Environment and navigation button
g - Brightness and alarm button
h - Menu button
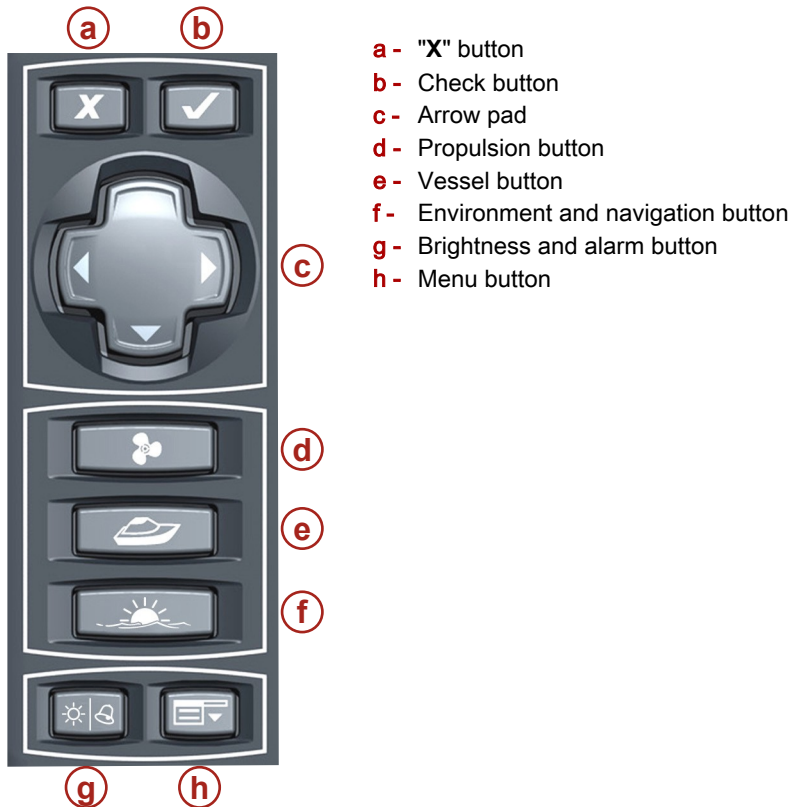
25354

A dash-mounted multifunction VesselView keypad is available as an accessory that offers the same eight buttons and an arrow pad for easy navigation through the screens and pages. The dash-mounted multifunction VesselView keypad has an additional button that toggles the keypad control from one VesselView to the other. Two VesselViews must be installed for the keypad transfer to function.
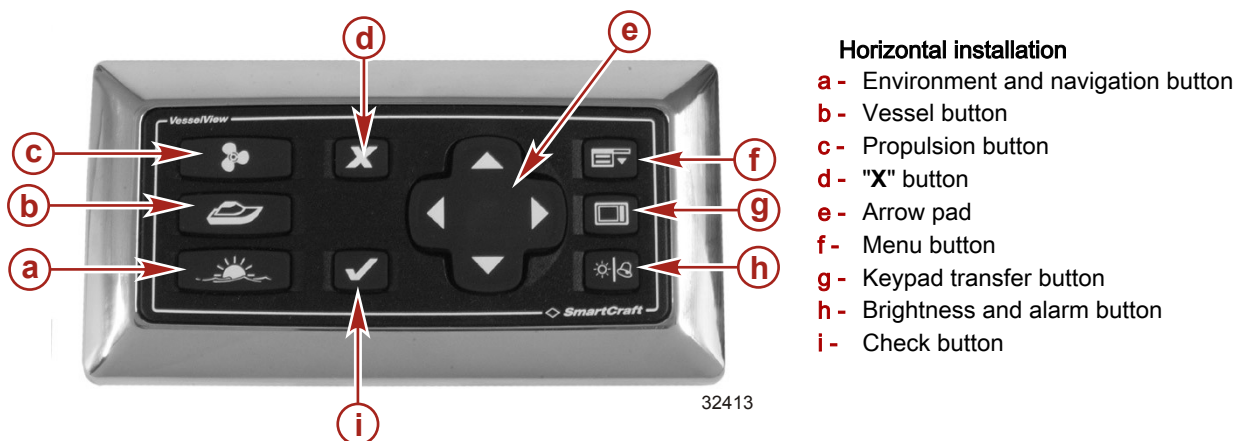
Horizontal installation
a - Environment and navigation button
b - Vessel button
c - Propulsion button
d - "**X**" button
e - Arrow pad
f - Menu button
g - Keypad transfer button
h - Brightness and alarm button
i - Check button

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"X" Button

• Enables a full shut down of VesselView when held down while the engine key switch is turned off.
• Deactivates or cancels the highlighted selection.
• Performs other functions as described in the on-screen prompts.
• Closes the menu panel.

Check Button

• Activates or confirms the highlighted selection.

- Access functions within pages.
- Performs other functions as described in the on-screen prompts.

Arrow Pad

- Operates the up, down, and side-to-side movement of the VesselView cursor to navigate through the various screens and function prompts.
- Toggles through the available category screens.
- Performs other functions as described in the on-screen prompts.

Propulsion, Vessel, or Environment and Navigation Buttons

- Opens the last screen viewed in the particular category.
- Toggles through the available category screens.

Brightness and Alarm Button

- Opens the screen brightness control for brightness adjustment of the VesselView screen when no faults are present.
- Enables quick access to the "ACTIVE ALARMS" screen where active faults and their details are shown when faults are present.

Keypad Transfer

- Toggles the keypad control from one VesselView to the other. Two VesselViews must be installed for the keypad transfer to function.
- The multifunction VesselView keypad location must be configured with the G3 computer diagnostic system (CDS) tool. G3 CDS will request you to press the keypad location that has a flashing light. The keypad will not display a flashing light. Instead, press any button except the keypad transfer button.

Menu Button

- Opens the menu panel.
- Toggles between the main menu and the menu of the active category.

Turning the VesselView Unit On or Off

The VesselView unit automatically turns on when the key switch for any engine connected to the unit is turned to the "RUN" position.

VesselView enters suspend mode 48 hours after the key switches for all engines connected to the VesselView unit are turned to the "OFF" position. When any engine key switch is turned to the "RUN" position again, VesselView quickly displays the last active screen.

To shut down the VesselView unit completely for storage, or to save configuration session changes, press the "**X**" button while turning the engine key switches to the "OFF" position. Do not interrupt power to the unit while it displays the powering off screen. If power is interrupted while VesselView is shutting down, changes made during that session may be lost. When any engine key switch is turned to the "RUN" position again, VesselView displays the last active screen after it completes the boot sequence.

IMPORTANT: If the battery switches are turned off, the VesselView unit will shut down immediately. This will not damage the unit but, all session configuration changes made since the last configuration save will be lost.

NOTE: When not in use, cover the VesselView unit with the protective cover to prevent damage to the screen.

During the initial start-up sequence for VesselView, a setup wizard screen appears prompting you to enter the initial setup for the unit. If this happens, follow the procedures in **Section 2 - Setup Wizard**. The setup wizard will not appear again unless a factory reset is performed.

Restarting VesselView

At any time you can restart VesselView without the loss of any information or configuration changes.

To restart VesselView, press and hold the "**X**" button and the check button at the same time until the system restarts. VesselView will display the last active screen after it completes the boot up cycle.

Cleanliness and Care of Product

Clean the VesselView screen with water and a soft cloth. Do not use detergents. When not in use, cover the VesselView unit with its protective cover to prevent screen damage.

Saving the Settings

VesselView operates in sessions. Session configuration changes must be saved before the VesselView unit is shut down or the changes will revert back to the last saved configuration or default settings. When changes are made to any of the VesselView settings, whether for calibrating settings or for customizing, those changes must be saved.

IMPORTANT: If the battery switches are turned off, the VesselView unit will shut down. All session configuration changes made since the last configuration save will be lost.

When changing data in the options of a screen, the screen may state to press the check button to save the changes, but those changes are only saving to the current session. After a change is made to any VesselView screen, press the check button to save the changes made to the session or the "**X**" button to cancel any changes.

After completing any change/customization to VesselView, a blue pop-up message will appear as a reminder to save the session settings. It is recommended that all session changes be saved before holding the "**X**" button while keying all of the engines off.

When finished with all calibrations, please hold X and key off boat to save settings.

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IMPORTANT: Pressing the "X" button while turning the engine key switch "OFF" will save the current session configuration settings and shut down the VesselView.

When the engine key switches are turned back to the "RUN" position, VesselView will perform a complete reboot that typically takes a few minutes. Due to the length of time to reboot, it is recommended to make all necessary configuration changes in a single session and then save all changes at one time.

There are two methods to save configuration changes made in a session:

- Complete the setup wizard and press the check button. VesselView will save the changes made in the setup wizard session, shut down, and reboot.
- When the setup wizard is not used and changes are made to VesselView, perform the following procedure.
    a. While pressing the "**X**" button, turn the engine key switch to the "OFF" position. Be sure to turn **all** engine key switches to their "OFF" position for multiple engine applications.
    IMPORTANT: If any engine key switch is turned off after you have let go of the "X" button, that particular engine session changes will be lost.
    b. When any key switch is turned back to the "RUN" position, VesselView displays the last active screen after it completes the boot up cycle. Though the data is saved, only the data for the engines that have their key switches turned to the "RUN" position will be displayed.

Notes:

Section 2 - Setup and Calibration

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Setup Wizard Overview

Turning the key switch to the "RUN" position activates all VesselView units connected to the system. Complete the initial setup process using the setup wizard when starting up any VesselView unit for the first time, or after selecting "RESET SETTINGS" on the "FACTORY RESET" screen. The menu path is: "Main" > "Calibrate" > "Factory Reset." This process calibrates each VesselView to the vessel's engine, sensor, and instrument configuration. The setup wizard procedures include:

*   Import configuration—This is used when a configuration is stored onto a USB memory stick.
*   Engine setup—This is used to define the size, type, and quantity of engines installed on the vessel.
*   Display setup—This is used to define the screen configuration for your engines.
*   Device setup—This is used to differentiate each VesselView unit when multiple VesselViews are installed on the vessel.
*   Tab setup and calibration—This is used to define the number of tabs installed on the vessel and their electrical connection. Tabs will need to be calibrated so the data displayed is accurate. When configuring tabs and selecting the propulsion type "POD," no calibration is required.

NOTE: *Trim is not part of the setup wizard, but requires setup and calibration. Refer to* **Calibrating Trim***.*

On vessels with multiple VesselViews installed, the configuration setup and calibration settings can be saved onto a USB memory stick and imported onto other VesselView units, rather than repeating the setup procedure manually, or repeat the setup wizard for each VesselView unit installed. Using the import method requires the unique VesselView ID be manually changed at each additional VesselView unit.

IMPORTANT: When VesselView is first configured during the setup wizard, the system will automatically detect sensors that are present and ignores sensor inputs that have no sensors installed. If a sensor is removed from the system after the initial configuration, the VesselView will show faults for the removed sensor. To stop the fault message, perform the "Reset Sensor Detection" procedure. Refer to **Factory Reset**. VesselView will scan for sensors, and because the removed sensor is not installed, the fault message will not appear.

Setup Wizard

The VesselView setup wizard guides you through the first steps of configuring the VesselView. The setup wizard begins when the VesselView unit is turned on for the first time or when a factory reset is performed. The VesselView setup wizard starts with the option to import a saved configuration from a USB memory stick.

NOTE: *To use a USB memory stick to perform the import function, a VesselView configuration must be previously exported (saved) to the USB memory stick. To skip the "IMPORT CONFIG" option, press the right arrow on the arrow pad. The setup wizard will open the "ENGINE SETUP" screen. Refer to* **Save Configuration***.*

1. Turn all engine key switches to the "RUN" position and the "WELCOME" screen will appear.
    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. If you do not see the "IMPORT CONFIG" screen as the next screen, press the left arrow on the arrow pad until it appears.

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2. Press the right arrow on the arrow pad to continue to "IMPORT CONFIG."

Import Configuration (Optional)

IMPORTANT: The import configuration option is used to import configuration settings that were saved to a USB memory stick. The VesselView unit will recognize USB memory sticks of version 1.1 or 2.0 that is stated to be backwards compatible to version 1.1. The VesselView unit will not recognize memory sticks that are only version 2.0 compatible.

IMPORTANT: Configuration settings saved to a USB memory stick are compiled into one data file. Only one file can exist in the root of the USB memory stick. VesselView will not recognize multiple import files.

1. The "IMPORT CONFIG" screen instructs you to insert a USB memory stick and wait for instructions.

IMPORT CONFIG

TO IMPORT CONFIGURATION, INSERT

MEMORY STICK AND WAIT FOR INSTRUCTIONS.

PREV ◁   ▷ NEXT
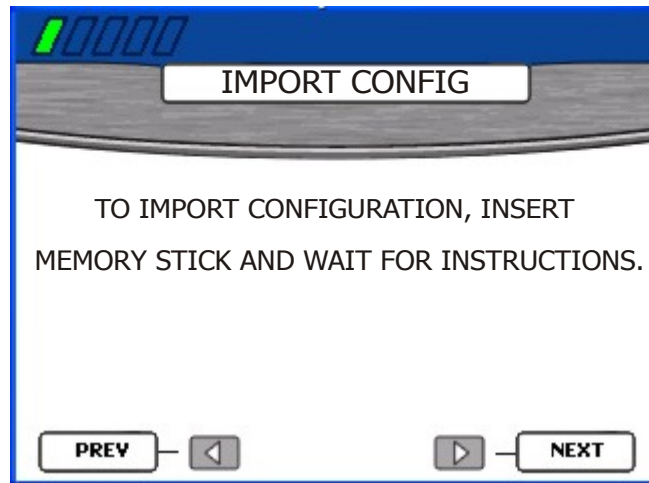
27304

2. Insert a USB memory stick into the USB port on the back of the VesselView unit.
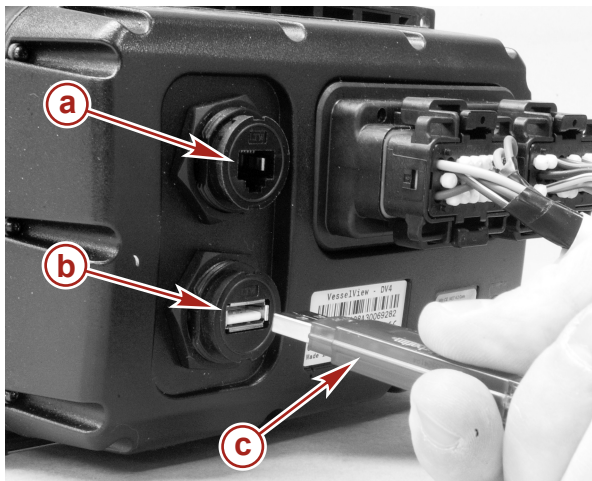
a - Ethernet port (for future option)
b - USB port
c - USB memory stick

27329

IMPORTANT: Do not remove the USB memory stick until the import process is complete.

3. When the memory stick is detected, the "IMPORT CONFIG" screen will display "MEMORY STICK READY."
    IMPORTANT: If you attempt to load a configuration setting that was not saved to the USB memory stick, the import of the data file will not be successful and a yellow pop-up message will appear stating "IMPORT UNSUCCESSFUL." If you can recall the configuration setting that was not saved, select "SKIP" for that particular configuration setting. That particular configuration setting will need to be setup and calibrated accordingly.

4. Press the check button to import the saved configuration.

IMPORT CONFIG

TO IMPORT CONFIGURATION, INSERT
MEMORY STICK AND WAIT FOR INSTRUCTIONS.

MEMORY STICK READY ✓ TO IMPORT

PREV ◁   ▷ NEXT
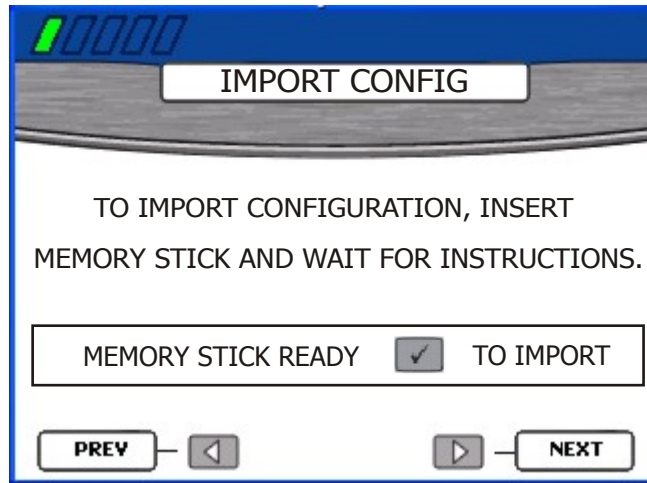
27309

5. VesselView will restart and import the configuration.

*NOTE: If the imported configuration settings are correct for your power package, the setup process is completed. Continue to finalize the setup of VesselView. Refer to **Calibration Menu Options**.*

Engine Setup

VesselView automatically detects the vessel's power package. On the "ENGINE SETUP" screen, you can change the type and number of engines. The available power packages are:

- "2 Stroke Gas Outboard"
- "4 Stroke Gas Outboard"
- "Gas Sterndrive No Troll"
- "Gas Inboard No Troll"
- "Gas Jet Drive"
- "Gas Sterndrive"

- "Gas Inboard"
- "Gas Verado"
- "Diesel Sterndrive No Troll"
- "Diesel Inboard No Troll"
- "Diesel Sterndrive"
- "Diesel Inboard"

IMPORTANT: If a "Diesel Inboard No Troll" is the identified, VesselView assumes the installed power package is a Zeus drive and will turn on the AutoPilot screens; Pilot, Joystick, Skyhook. All other drive types, the pilot screens must be turned on or off in the "Settings" option menu.

NOTE: VesselView will always default to four engines during the initial setup and after a factory reset.

ENGINE SETUP

ENGINE TYPE:

Gas Verado ← ⓐ

NUMBER OF ENGINES:

4 ← ⓑ

PREV ◁   ▷ NEXT

34503
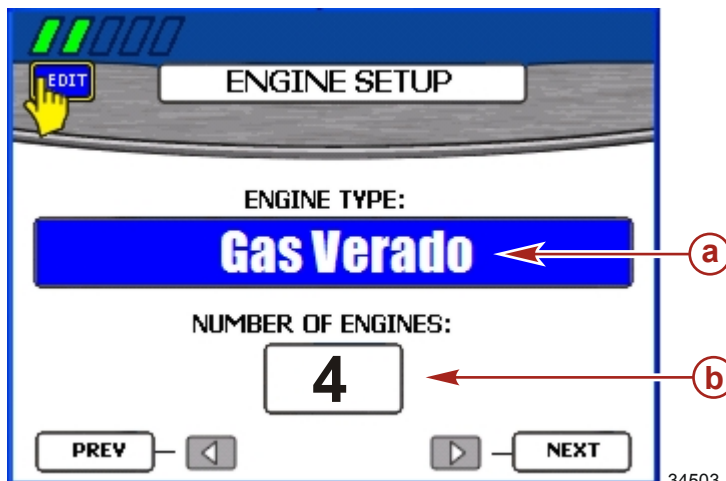
a - Engine type
b - Number of engines

IMPORTANT: The "ENGINE TYPE" option may be blank when the "ENGINE SETUP" screen initially appears. Before beginning this procedure, wait until an engine type appears in the "ENGINE TYPE" option, this could take several seconds. If an engine type does not appear, check that all engine ignition keys are in the "RUN" position and all VesselView units are properly connected.

1. Wait until an engine type appears in the "ENGINE TYPE" option. The "ENGINE TYPE" option may take several seconds to detect the engine.

   NOTE: The VesselView default setting is four engines.

2. If the engine type is correct, proceed to step 5; otherwise, press the check button to access the "ENGINE TYPE" option.

3. Press the left or right arrow on the arrow pad to scroll through the available engine types.

4. Confirm your selection by pressing the check button.

5. If the number of engines is correct, proceed to step 8; otherwise, press the check button, then the down arrow on the arrow pad to access the "NUMBER OF ENGINES" option.

   NOTE: Although you may select up to four engines, VesselView displays data for a maximum of three gasoline or diesel engines. Choosing four engines enables you to add two more tanks; and to view the total fuel flow, fuel range, and drive link gauges for all engines. Some data may not be displayed when a single VesselView is used wtih a triple engine power package. It is recommended that a second VesselView unit be used for a quad engine configuration.

6. Press the right arrow on the arrow pad to increase the number of engines or the left arrow to decrease the number of engines. The maximum number of engines is four.

7. Confirm your selections by pressing the check button.

8. Press the right arrow on the arrow pad to continue to the "DISPLAY SETUP" screen.

Display Setup

The "DISPLAY SETUP" screen enables you to choose where the data for each engine is displayed on VesselView. Typically, the engines are displayed left to right in the same order as their physical locations port to starboard. Some helm configurations may require different display settings. If you choose to display only one engine in a multiengine application, VesselView displays the collective data such as total fuel flow and range for all engines, but displays engine specific data for only the engine selected for that display.

IMPORTANT: Do not choose the same screen location for more than one engine.

1. If the screen locations are correct, proceed to step 6; otherwise, press the check button to access the "RIGHT SIDE" option.

   NOTE: The "DISPLAY SETUP" screen shown is for dual engines. Triple and quad applications will show three options. The third option will be listed as "CENTER" location. Single engine applications will have one option.

   NOTE: If there are more engines on the vessel than you wish to display, choose "NONE" for those engine locations.
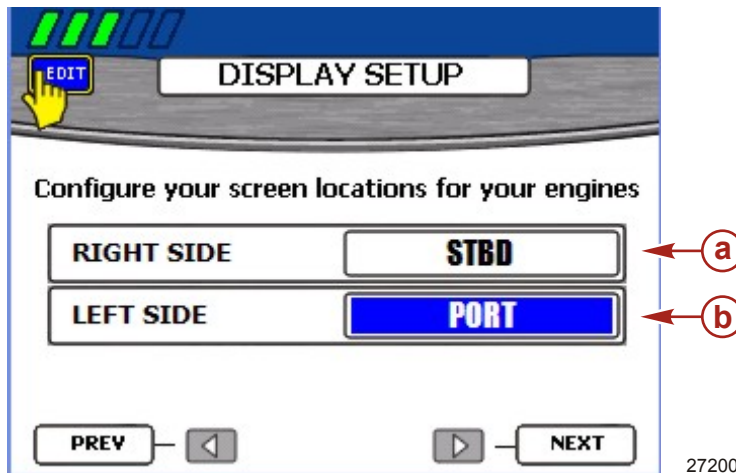
a - Right side location
b - Left side location

27200

2. Press the left or right arrow on the arrow pad to scroll through the available locations. You may select any of the following, depending on the number of engines:
   - "NONE"
   - "STBD"
   - "PORT"
   - "STBDCNTR" (triples and quads)
   - "PORTCNTR" (quads only)

3. If there are multiple engines, press the down arrow on the arrow pad to proceed to the next option.

4. Perform steps 1, 2, and 3 for all remaining engines on the vessel.

5. Confirm your selections by pressing the check button.

6. Press the right arrow on the arrow pad to continue to the "DEVICE SETUP" screen.

Device Setup

The unique VesselView ID differentiates each VesselView unit from all other installed SmartCraft devices. The "DEVICE SETUP" screen enables you to assign this unique identifier to each VesselView unit and to designate whether the VesselView is installed at the primary or secondary helm.

IMPORTANT: Do not choose the same unique VesselView ID for multiple VesselView installations.

1. If there is only one VesselView unit installed on the vessel, proceed to step 5; otherwise, press the check button to access the "UNIQUE VESSELVIEW ID" option.

   NOTE: Select the "UNIQUE VESSELVIEW ID" by the position the VesselView units are installed (lowest to highest helm is recommended).

a - VesselView ID
b - Helm ID
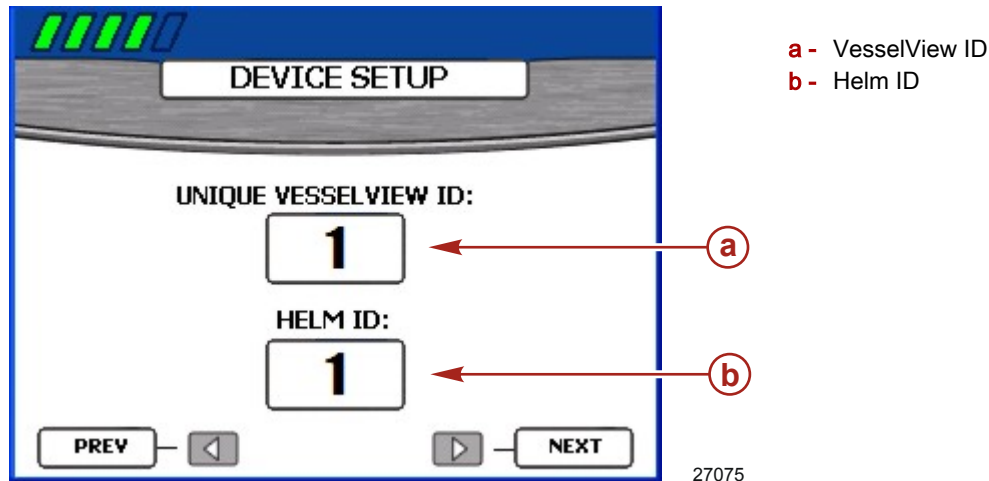
27075

2. Press the right arrow on the arrow pad to increase the number or the left arrow to decrease the number. Choose a number that is different from the number assigned to any other VesselView unit installed.

3. Press the down arrow on the arrow pad to proceed to the "HELM ID" option.

   NOTE: Use "HELM ID 1" for single helm vessels. If a vessel has multiple VesselView units installed on different helms (up to four maximum) the "HELM ID" represents the helm location where each VesselView is installed (lowest to highest helm is recommended).

4. Press the left or right arrow on the arrow pad to choose either helm 1, helm 2, helm 3, or helm 4.

5. Confirm your selections by pressing the check button.

6. Press the check button to enter "TAB SETUP."
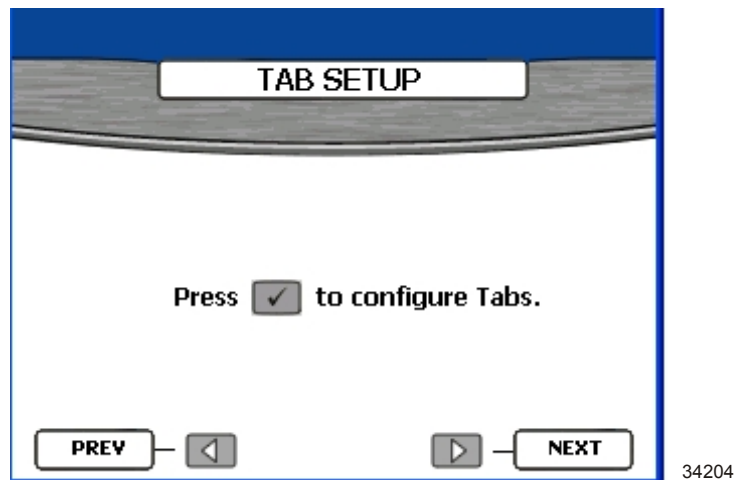
34204

7. Press the left or right arrow on the arrow pad to identify the propulsion type: "NONE," "MERCURY," "POD."

NOTE: *Calibration of the tabs is not required for Zeus power packages.*
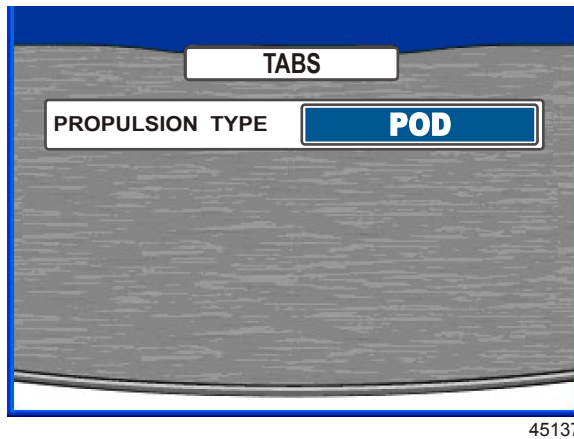
45137

8. "NONE" is the default selection when no sensors are detected. If tabs are installed, press the down arrow on the arrow pad to access the number of tabs. If there are no tabs installed, press the "**X**" button to go back one step to the "TAB SETUP" screen and continue to step 29.

9. Press the left or right arrow on the arrow pad to select the number of tabs installed. Up to three tabs can be selected.

10. Press the down arrow on the arrow pad to access the "RIGHT TAB" window.

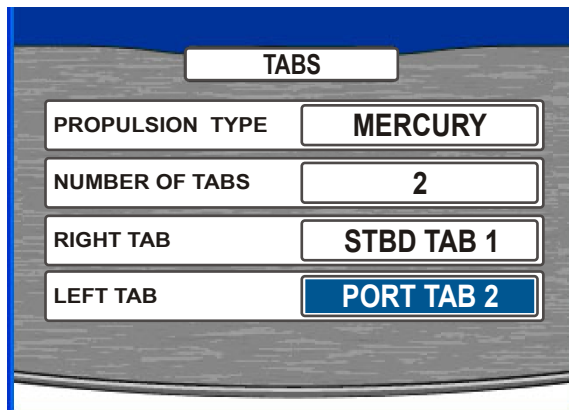11. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs. The location names available are:

Tab location names	
"NONE"	None
"STBD TAB 1"	Starboard tab 1
"STBD TAB 2"	Starboard tab 2
"PORT TAB 1"	Port tab 1
"PORT TAB 2"	Port tab 2
"STBD CNTR TAB 1"	Starboard center tab 1
"STBD CNTR TAB 2"	Starboard center tab 2
"PORT CNTR TAB 1"	Port center tab 1
"PORT CNTR TAB 2"	Port center tab 2

12. Press the down arrow on the arrow pad to access the "LEFT TAB" window. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs.

13. Press the down arrow on the arrow pad to access the "CENTER TAB" window. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs.

45138

14. Confirm your selections by pressing the check button.

15. Press the "**X**" button to go back to "TAB SETUP" if corrections are needed.

16. Press the left or right arrow on the arrow pad to select the tab to be calibrated.

```
TAB CALIBRATION

WHICH TAB WOULD YOU LIKE TO
CALIBRATE?

          STBD

    X = DONE    CHECK = SELECT
```
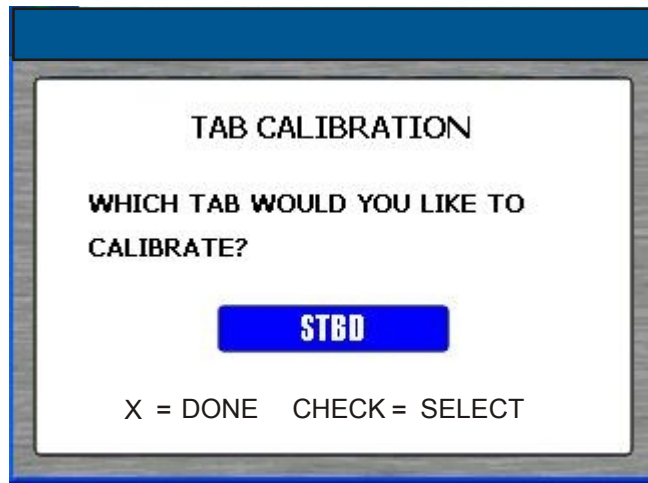
45139

17. Press the check button to begin calibrating the selected tab.
18. Lower the selected tab into its down position.
19. Press the down or up arrow on the arrow pad to highlight the "ACTUAL DOWN" option.

```
TAB CALIBRATION

        GAUGE            ACTUAL
    0 = UP                0.0
    50 = LEVEL            50.0
    100 = DOWN            100.0

    CURRENT ACTUAL % = 0.0
            CALCULATED = 0.0

    X = ESCAPE  CHECK = SAVE
```
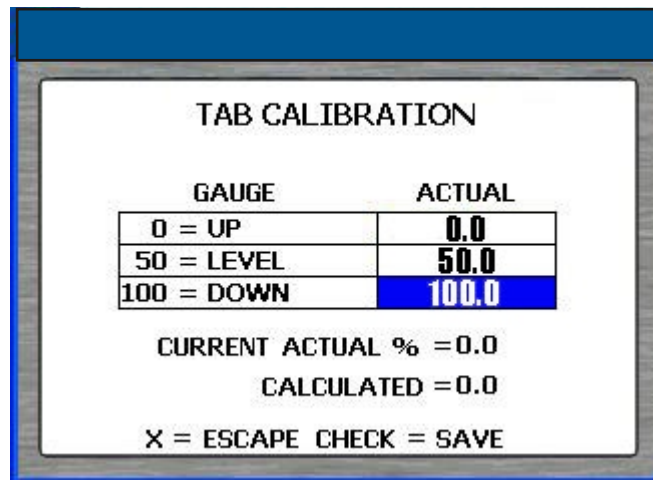
45140

20. Press the left or right arrow on the arrow pad to adjust the "ACTUAL DOWN" tab percentage to match the "CURRENT ACTUAL %."
21. Raise the tab into its level position.

22. Press the up arrow on the arrow pad to highlight the "ACTUAL LEVEL" option.

45141

23. Press the left or right arrow on the arrow pad to adjust the "ACTUAL LEVEL" tab percentage to match the "CURRENT ACTUAL %."
24. Raise the tab into its up position.
25. Press the up arrow on the arrow pad to highlight the "ACTUAL UP" option.

45142

26. Press the left or right arrow on the arrow pad to adjust the "ACTUAL UP" tab percentage to match the "CURRENT ACTUAL %."
27. Press the check button to save the calibration and go back to the "TAB CALIBRATION" screen.
28. If more than one tab exists on the vessel, perform steps 15–27 for the remaining tabs.
29. When all the tabs have been calibrated, end the calibration process by selecting the "**X**" button.

    NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "**X**" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.*

30. When calibrating the tabs is completed, press the right arrow on the arrow pad to continue to the "COMPLETE" screen.

Device Setup Complete

The setup wizard displays the "COMPLETE" screen after you have completed all the steps of the wizard. To review your choices or to go back to a screen to make corrections, use the left arrow button.
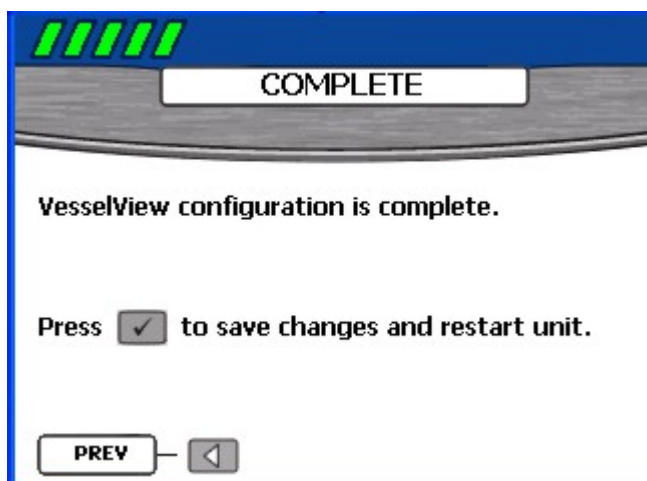
27076

When you are sure that your selections are correct, press the check button to save your configuration and restart the VesselView unit. VesselView displays a saving settings message, then restarts. The restart process may take a few minutes.

NOTE: *If you want to change the vessel configuration after exiting the setup wizard, you may either restart the wizard by choosing "RESET SETTINGS" on the "Factory Reset" screen in the "Calibrate" menu or reconfigure the vessel using the "Configuration" menu.*

Calibration Menu Options

The "Calibrate" menu will allow you to setup your VesselView to your specific boat. The "Calibrate" menu items include the following:

• "Tank"
• "Tabs"
• "Trim"
• "Configuration"
• "Factory Reset"
• "Save Configs"
• "Load Configs"
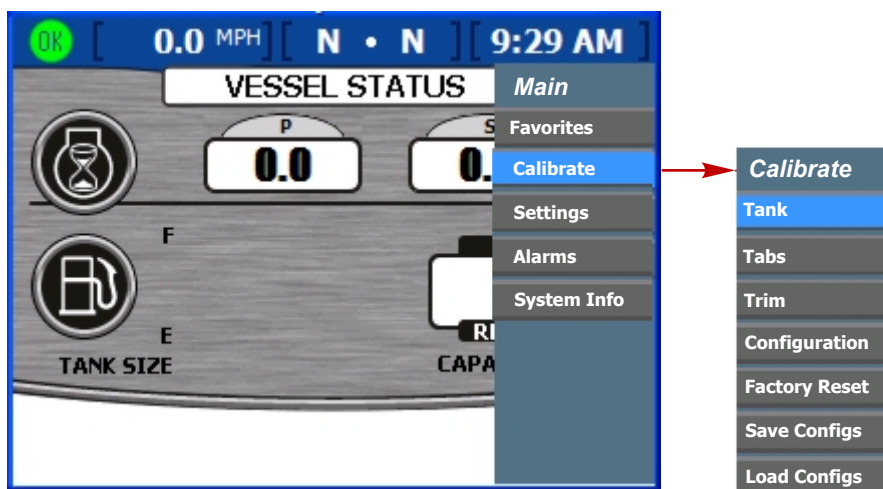
34206

Calibrating the Tanks

Open the "TANK CONFIG" screen by pressing the menu button until the "Main" menu appears. Use the down arrow button to select the "Calibrate" option. Press the check button to open the "Calibrate" menu, then the check button to select "Tank."

Tank and Location Selection

1. Open the "TANK CONFIG" screen. The engine location box is highlighted.
2. Use the left or right arrow button to choose which engine to configure.

   NOTE: You may configure up to two tanks for each engine on the boat if these engines are so equipped. For example, on a triple-engine application, six tanks are available.

3. Press the down arrow to proceed to the tank selection box.
4. Use the right arrow button to choose which tank number to configure.

a - Engine location
b - Tank selection

27061

5. Press the check button to confirm your choice. The "TYPE," "SIZE," and "LOCATION" boxes will appear.

a - Type of tank
b - Size of tank
c - Location of tank

27064

6. Use the left or right arrow button to scroll through the available tank types in the "TYPE" box. You may select any of the following:
   - "NOT USED"
   - "OIL"
   - "WASTE"
   - "FUEL"
   - "WATER"

7. Press the down arrow to proceed to the "SIZE" box.
8. Use the right arrow button to scroll to the capacity of the tank. Holding the button down causes the scroll to speed up.
   IMPORTANT: The default unit for measuring tank capacity is U.S. gallons. To choose a different unit of measurement, refer to Section 4 - Units.
9. Press the down arrow to proceed to the "LOCATION" box. You may select any of the following:

- • "S1" (starboard 1), "S2" (starboard 2), "S3" (starboard 3), "SF" (starboard forward), or "SA" (starboard aft)
- • "P1" (port 1), "P2" (port 2), "P3" (port 3), "PF" (port forward), or "PA" (port aft)
- • "C1" (center 1), "C2" (center 2), "C3" (center 3), "CF" (center forward), or "CA" (center aft)

10. To change the values already entered, press the "**X**" button to return to the previous screen. Otherwise, press the check button to confirm your selections. VesselView will then display two methods of calibration.

Tank Calibration

VesselView offers two tank calibration methods. For linear shaped fuel tanks, choose "METHOD 1: DEFAULT." Using method 1, VesselView assumes the tank is uniformly shaped and that each quarter of the tank holds a quarter of its total capacity. For irregularly shaped fuel tanks, choose "METHOD 2: MANUAL." You will be required to fill the tank for the manual method.

a - Method 1 - Default
b - Method 2 - Manual

27065
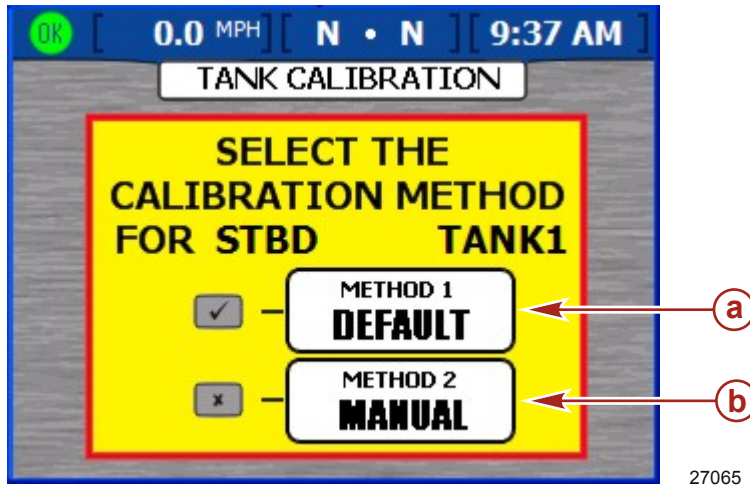
Method 1: Default

1. On the "TANK CALIBRATION" screen, press the check button to choose the "DEFAULT" calibration method. VesselView displays a saving settings message.
2. Repeat the tank calibration process for any additional tanks.

Method 2: Manual

1. On the "TANK CALIBRATION" screen, press the "**X**" button to choose the "MANUAL" calibration method.
2. Ensure the tank is empty. Press the check button to confirm.
3. Following the direction on the screen, fill the tank to 25% of its capacity. Press the check button to confirm, or the back button to go back one step.
4. Following the direction on the screen, fill the tank to 50% of its capacity. Press the check button to confirm, or the back button to go back one step.
5. Following the direction on the screen, fill the tank to 75% of its capacity. Press the check button to confirm, or the back button to go back one step.
6. Following the direction on the screen, fill the tank to 100% of its capacity. Press the check button to confirm, or the back button to go back one step.

7. VesselView will display the saving settings message and return you to the beginning of "TANK CONFIG." Repeat the tank calibration process for any additional tanks.
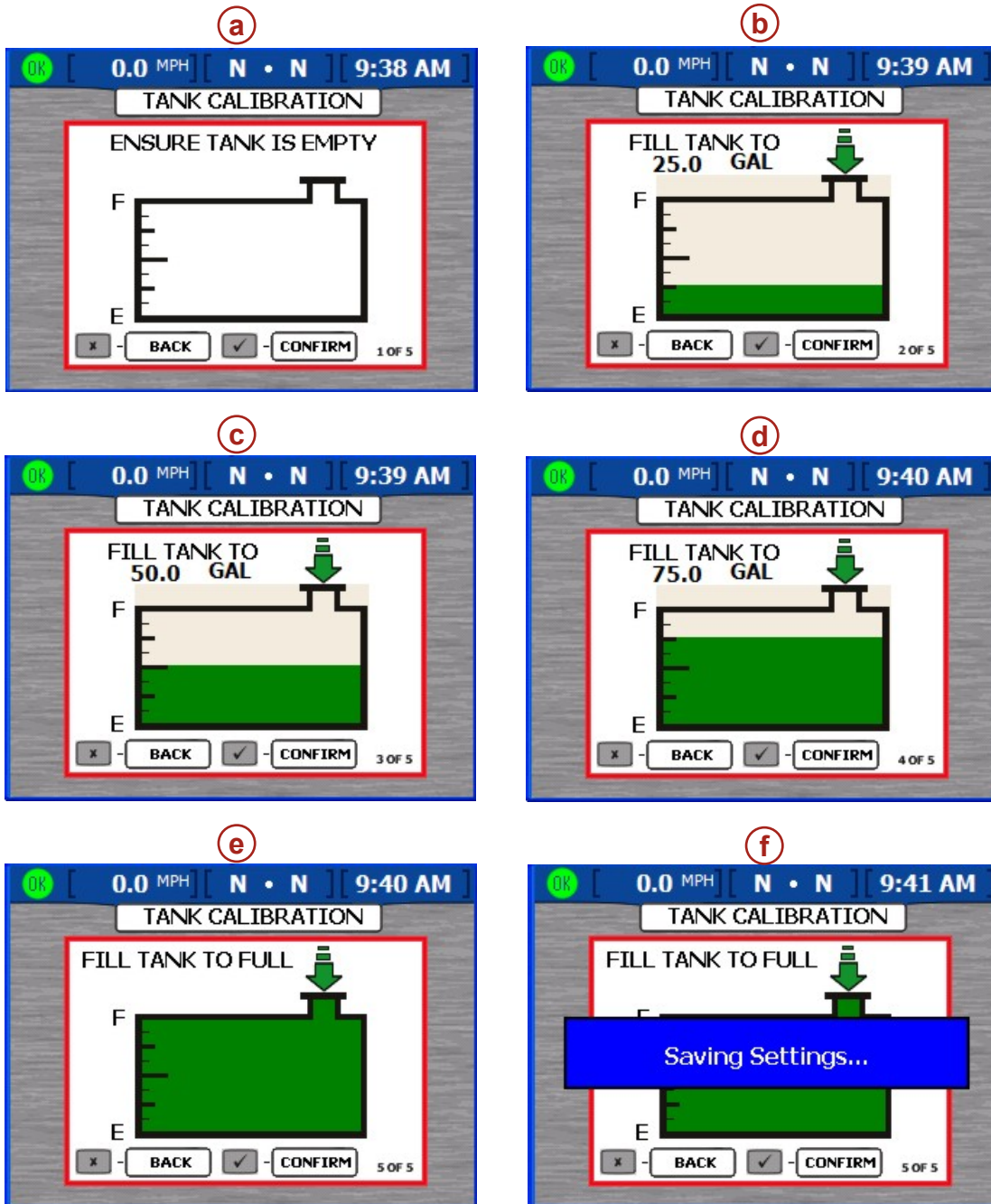
27066

a - Empty tank
b - Fill to 25% full
c - Fill to 50% full
d - Fill to 75% full
e - Fill to 100% full
f - Saving settings message

Tab Setup and Calibration

"MERCURY" or "POD" must be selected for VesselView to display tabs. Vessels equipped with a Zeus power package, tab setup and calibration is not required. For all other vessels equipped with a SmartCraft compatible tab or several tabs, VesselView must be calibrated to the tab sensor.

The tab position sensor changes resistance values as the engine or drive is raised or lowered. The resistance values represent a position where the sensor is on a scale (current actual %) and a percentage value (0%–100%) on the tab gauge. Changing the actual % value calibrates the tab level indicator to the tab position sensor. To compensa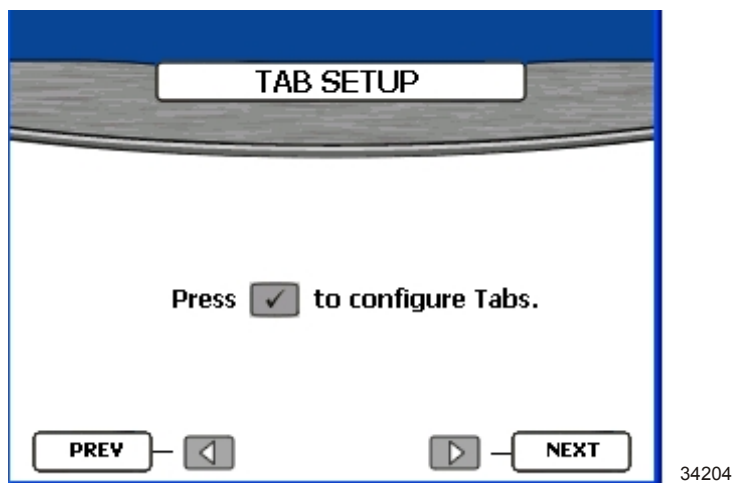te for sensitivity of the tab position sensor, select the positions (100 = Down, 50 = Level, and 0 = Up) and adjust the actual % value to match the current actual % for that known tab position.

1. Press the check button to enter "TAB SETUP."

34204

2. Press the left or right arrow on the arrow pad to identify the propulsion type: "NONE," "MERCURY," "POD."

   NOTE: *Calibration of the tabs is not required for Zeus power packages. "POD" must be selected for VesselView to display the tab screen.*

45202
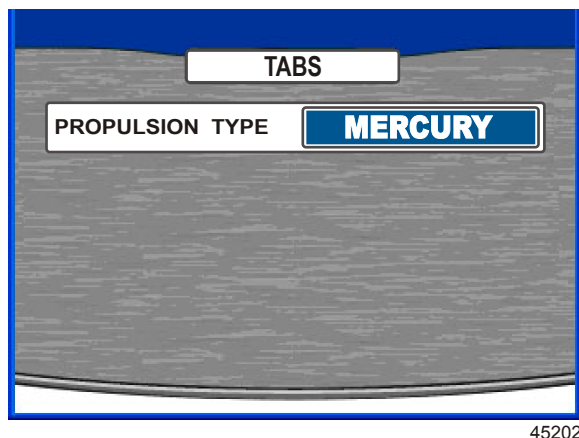
3. "NONE" is the default selection when no sensors are detected. If tabs are installed, press the down arrow on the arrow pad to access the number of tabs. If there are no tabs installed, press the "**X**" button to go back one step to the "TAB SETUP" screen and continue to step.

4. Press the left or right arrow on the arrow pad to select the number of tabs installed. Up to three tabs can be selected.

5. Press the down arrow on the arrow pad to access the "RIGHT TAB" window.

6. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs. The location names available are:

Tab location names	
"NONE"	None
"STBD TAB 1"	Starboard tab 1

Tab location names	
"STBD TAB 2"	Starboard tab 2
"PORT TAB 1"	Port tab 1
"PORT TAB 2"	Port tab 2
"STBD CNTR TAB 1"	Starboard center tab 1
"STBD CNTR TAB 2"	Starboard center tab 2
"PORT CNTR TAB 1"	Port center tab 1
"PORT CNTR TAB 2"	Port center tab 2

7. Press the down arrow on the arrow pad to access the "LEFT TAB" window. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs.

8. Press the down arrow on the arrow pad to access the "CENTER TAB" window. Press the left or right arrow on the arrow pad to select the location name for the right, left, and center tabs.
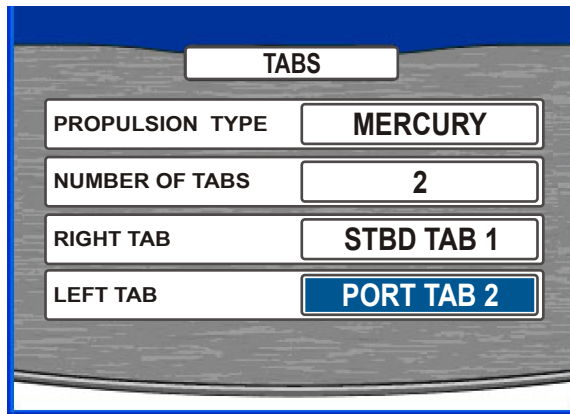
45138

9. Confirm your selections by pressing the check button.

10. Press the "**X**" button to go back to "TAB SETUP" if corrections are needed.

11. Press the left or right arrow on the arrow pad to select the tab to be calibrated.

45139

12. Press the check button to begin calibrating the selected tab.

13. Lower the selected tab into its down position.

14. Press the down or up arrow on the arrow pad to highlight the "ACTUAL DOWN" option.

45140

15. Press the left or right arrow on the arrow pad to adjust the "ACTUAL DOWN" tab percentage to match the "CURRENT ACTUAL %."

16. Raise the tab into its level position.

17. Press the up arrow on the arrow pad to highlight the "ACTUAL LEVEL" option.

45141

18. Press the left or right arrow on the arrow pad to adjust the "ACTUAL LEVEL" tab percentage to match the "CURRENT ACTUAL %."

19. Raise the tab into its up position.

20. Press the up arrow on the arrow pad to highlight the "ACTUAL UP" option.

45142

21. Press the left or right arrow on the arrow pad to adjust the "ACTUAL UP" tab percentage to match the "CURRENT ACTUAL %."
22. Press the check button to save the calibration and go back to the "TAB CALIBRATION" screen.
23. If more than one tab exists on the vessel, perform steps 10–22 for the remaining tabs.
24. When all the tabs have been calibrated, end the calibration process by selecting the "**X**" button.

    NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "**X**" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.*

25. When calibrating the tabs is completed, press the right arrow on the arrow pad to continue to the "COMPLETE" screen.

Calibrating Trim

For power packages with trim, configure the trim settings on the "TRIM CALIBRATION" screen. VesselView does not display the "TRIM CALIBRATION" screen for power packages without trim. To open the "TRIM CALIBRATION" screen, press the menu button until the "Main" menu appears, then use the down arrow button to select the "Calibrate" option. Press the check button to open the "Calibrate" menu. Press the down arrow button, then the check button to select "Trim."

NOTE: *Trim calibration does not set the maximum engine trim and trailer limits. Refer to the engine installation manual for more information on your specific engine.*

Trim Calibration

1. Open the "TRIM CALIBRATION" screen.
2. The "TRIM ENGINE" box prompts you to trim all engines or drives "DOWN."
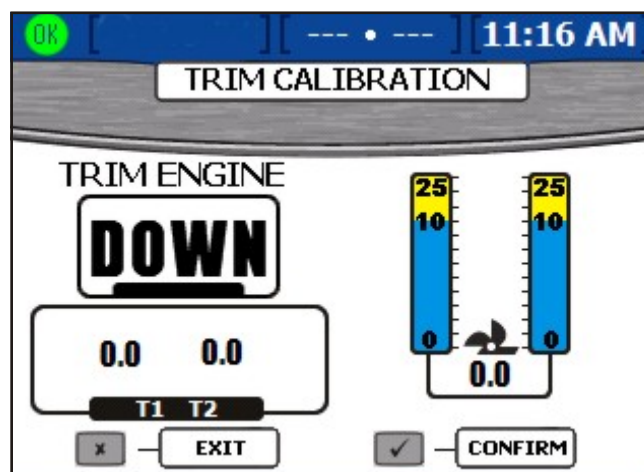
27204

3. Press the check button to confirm that you have trimmed all engines or drives to the full down position, or press the "**X**" button to go back one step. This sets the "0.0" trim setting.
4. When the "TRIM ENGINE" box prompts you to trim "UP," trim all engines or drives up, but not to the trailer position. This will display a "10.0" trim setting.
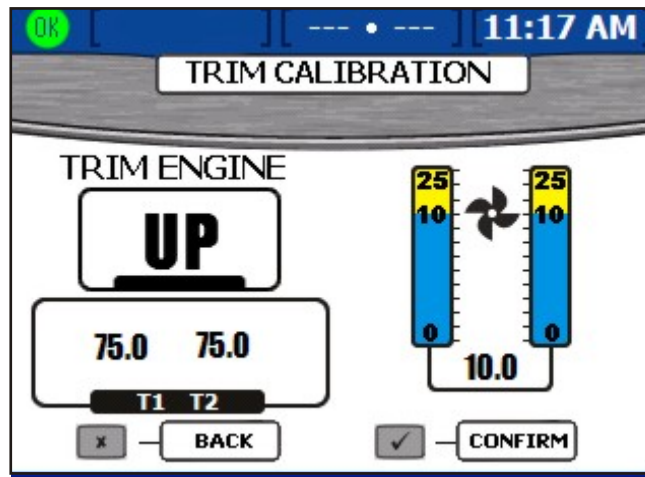
27206

5. Press the check button to confirm that you have trimmed all engines or drives up to the "10.0" position, or press the "**X**" button to go back one step.
6. When the "TRIM ENGINE" box prompts you to trim to "MAX," trim all engines or drives all the way up to the trailer position. This will display a "25.0" trim setting.
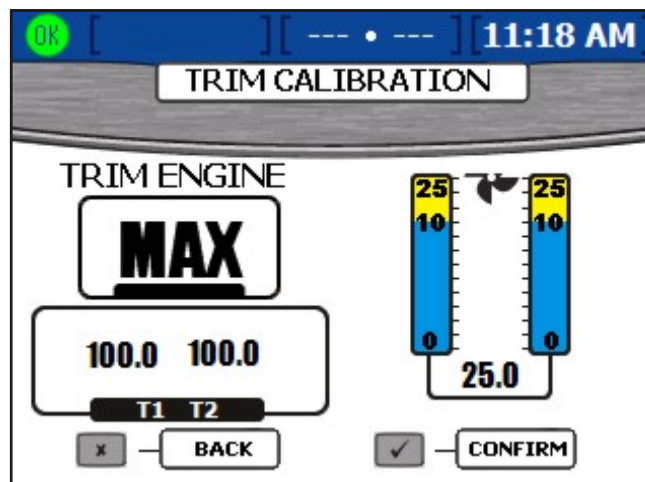
27207

7. Press the check button to confirm that you have trimmed all engines or drives to the trailer position, or press the "**X**" button to go back one step. VesselView will display the saving settings screen and restart.

    *NOTE: After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "**X**" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.*

Configuration

NOTE: A configuration of the vessel does not need to be performed if the vessel has been configured using the setup wizard.

A vessel configuration is used to assign the VesselView its location on the vessel. It also allows you to select the number of engines on the vessel and where the engine data should be displayed. To begin vessel configuration, press the menu button until the "Main" menu appears, then use the down arrow button to select the "Calibrate" option. Press the check button to open the "Calibrate" menu, then use the down arrow to select "Configuration." Press the check button to open the vessel configuration screen.

a - Power package name
b - "HELM ID"—Identifies the helm location of the VesselView
c - "DEVICE ID"—Unique identifier for the VesselView unit
d - "NUM ENGINES"—Number of engines
e - "RIGHT SCREEN"—Engine data displayed on the right side of the screen
f - "LEFT SCREEN"—Engine data displayed on the left side of the screen (multiple engines only)
g - "CENTER SCREEN"—Engine data displayed on the center of the screen (triple and quad engines only)

34244

NOTE: *The power package can only be changed in the setup wizard. Perform a factory reset to change the power package and go to the setup wizard. Refer to* **Factory Reset**.

1. Use the right and left arrow buttons to select the "HELM ID" number.
2. Press the down arrow button to proceed to "DEVICE ID."
3. Use the right and left arrow buttons to select the device identification number.
4. Press the down arrow button to proceed to "NUM ENGINES."
5. Use the right and left arrow buttons to select the number of engines.
6. Press the down arrow button to proceed to "RIGHT SCREEN."
7. Press the left or right arrow button to scroll through the available location types. You may select any of the following, depending on the number of engines:
    *   "NONE"
    *   "STBD"
    *   "PORT"
    *   "CENTER" (triple only)
    *   "STBDCNTR" (quads only)
    *   "PORTCNTR" (quads only)
8. If there are multiple engines, press the down arrow to proceed to the "LEFT SCREEN."
9. Press the left or right arrow button to scroll through the available location types.
10. For three or four engine applications, press the down arrow to proceed to "CENTER SCREEN."
11. Confirm your selections by pressing the check button.
12. VesselView will display the saving settings screen and restart.

Factory Reset

The "FACTORY RESET" menu is used to reset all VesselView settings to factory default or to perform a sensor detection. To perform a factory reset, press the menu button until the "Main" menu appears, then use the down arrow button to select the "Calibrate" menu. Press the check button to open the "Calibrate" menu, then use the down arrow to select "Factory Reset." Press the check button to open the "FACTORY RESET" screen.

IMPORTANT: By selecting "RESET SETTINGS" all vessel data settings will be lost.

1. The "FACTORY RESET" screen will ask you to "CHOOSE RESET TYPE." The two types of resets are:
    *   "RESET SETTINGS"—This will reset VesselView to factory defaults
    *   "RESET SENSOR DETECTION"—This will scan the VesselView network for any recently removed or installed sensors
2. Use the left and right arrow buttons to select between the two types.

3. To "RESET SETTINGS," press the check button to confirm. A yellow pop-up screen displays the words "ARE YOU SURE YOU WANT TO RESET SETTINGS?" Press the check button to continue, or the "**X**" button to go back. By pressing the check button, the VesselView will reset to factory default and will restart with the setup wizard. Refer to **Setup Wizard.**

a - Reset settings directory
b - Pop-up

4. To "RESET SENSOR DETECTION," press the check button to confirm. A yellow pop-up screen displays the words "ARE YOU SURE YOU WANT TO RESET SENSOR DETECTION?" Press the check button to continue, or the "**X**" button to go back. By pressing the check button, the VesselView will reset and restart. You will not go through the setup wizard and will be directed to the engine status screen. All sensors connected before the reset have been detected and data will display in their menu screens.
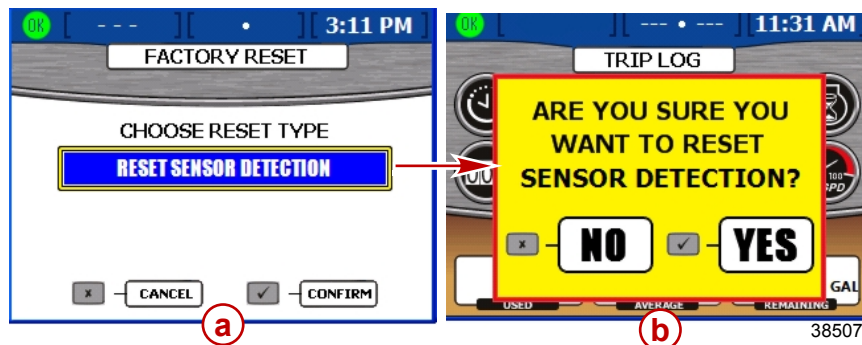
a - Reset settings directory
b - Pop-up

Save Configuration

The "SAVE CONFIGURATION" menu is used to export configuration settings to a USB memory stick for use with other VesselView units. This saves time by importing a configuration without having to complete the entire setup wizard and other calibrations. To save the configuration, press the menu button until the "Main" menu appears, then use the down arrow button to select the "Calibrate" menu. Press the check button to open the "Calibrate" menu, then use the down arrow to select "Save Configs." Press the check button to open the "Save Configs" screen.

IMPORTANT: It is not possible to select only one or two specific configurations when exporting information. All configurations are exported. Verify the VesselView and the boat are completely configured before exporting to a USB memory stick.

1. Once in the "SAVE CONFIGURATION" screen, a blue pop-up screen displays the words "PLEASE INSERT USB MEMORY STICK."
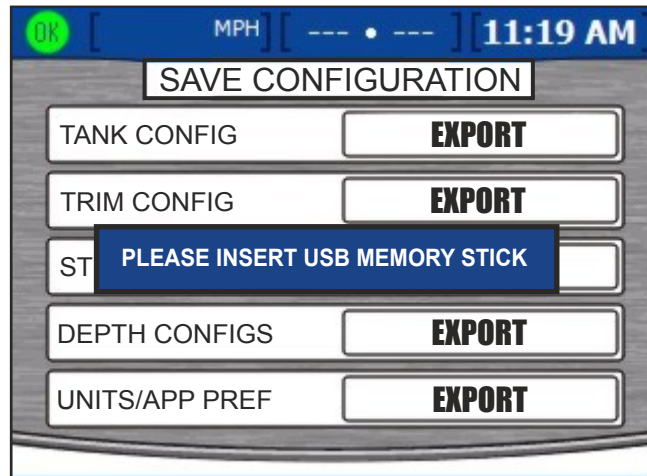
27230

2. Insert a USB memory stick into the USB port on the back of the VesselView. Refer to **Setup Wizard—Import Configuration (Optional)** for an illustration showing the USB port.
   IMPORTANT: Do not remove the USB memory stick until the export process is complete.

3. When the VesselView detects the memory stick, the blue pop-up screen will disappear; this may take several seconds.

4. The screen shows all the categories which will be exported. It is not possible to select only one or two specific configurations when exporting information. All of the files in the list will always be exported. Press the check button to initiate the export.

a - Tank configuration
b - Trim configuration
c - Steering
d - Depth configuration
e - Units and application preferences

27297

5.   When the export is complete, a blue pop-up screen displays the words "EXPORT COMPLETE." Press the "**X**" button to exit.
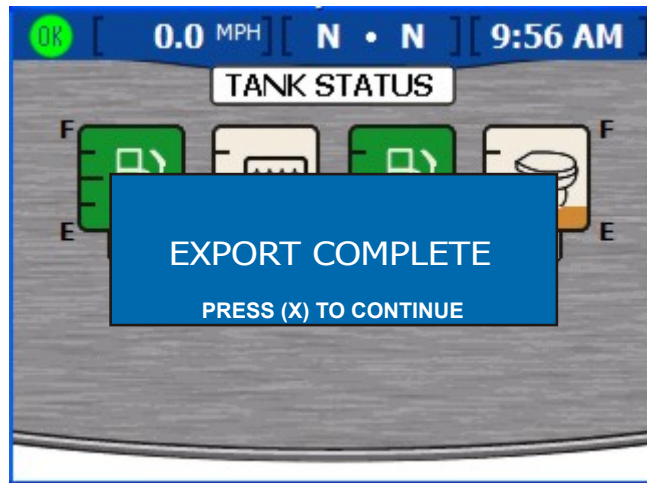
27292

6.   It is now safe to remove the USB memory stick.

Load Configuration

The "LOAD CONFIGURATION" menu imports the configuration settings saved to a USB memory stick from another VesselView unit. To "Load Configs," press the menu button until the "Main" menu appears, then use the down arrow button to select the "Calibrate" menu. Press the check button to open the "Calibrate" menu, then use the down arrow to select "Load Configs." Press the check button to open the "Load Configs" screen.

1.   Once in the "LOAD CONFIGURATION" screen, a blue pop-up screen displays the words "PLEASE INSERT USB MEMORY STICK."

27232

2.   Insert a USB memory stick into the USB port on the back of the VesselView. Refer to **Setup Wizard—Import Configuration (Optional)** for an illustration showing the USB port.
     IMPORTANT: Do not remove the USB memory stick until the import process is complete.

3.   When the VesselView detects the memory stick, the blue pop-up screen will disappear; this may take several seconds.

4. The screen shows the configuration categories. Select either "IMPORT" or "SKIP" using the left and right arrow buttons.

27293

a - Tank configuration
b - Trim configuration
c - Steering
d - Depth configuration
e - Units and application preferences
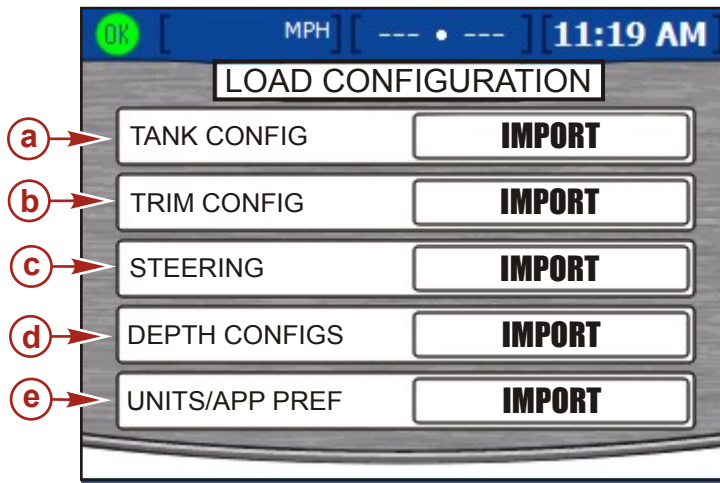
5. Press the down arrow button to proceed to the next configuration category. Select either "IMPORT" or "SKIP" for each of the categories.
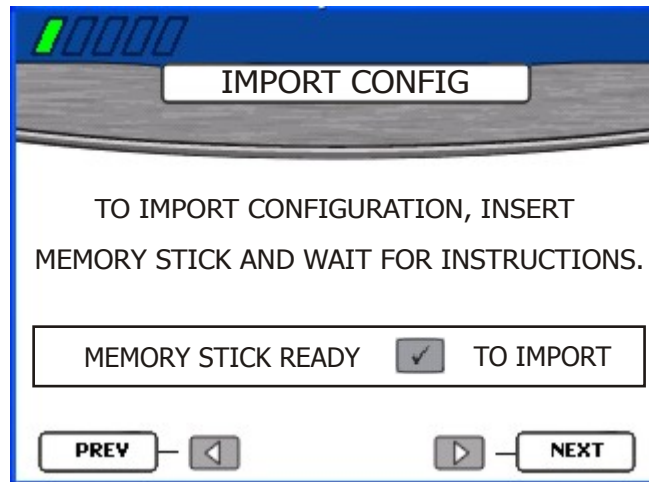
27309

6. Press the check button to save the selected configurations. The VesselView will restart and finish loading the configuration.

Notes:

Section 3 - Screen Overview and Operation

Table of Contents

3

Identifying and Using Screen Categories

VesselView displays engine, vessel, environmental, navigation, and calibration data through various screens. These screens are grouped into four categories:

- **Propulsion** contains all screens related to propulsion, trim, tabs, and engine performance.
- **Vessel** contains all screens related to fuel use, tank levels, and other items such as generators.
- **Environment and Navigation** contains all screens related to depth, navigation, and GPS.
- **Setup** contains all screens related to setting up and calibrating the systems connected to the VesselView.

There are two ways to view the pages in a category:

1. Use the propulsion, vessel, or environment and navigation button to view screens in each screen category.
   a. Press the button that corresponds to the screen category you wish to view. Refer to **Section 1 - Keypad Functions**.
   b. Use the right arrow button or the propulsion, vessel, or environment and navigation button to advance to the next page in the category. Use the left arrow button to move back a page.
2. Use the menu button to view screens in the propulsion, vessel, environment and navigation, or setup screen categories.
   a. Press the menu button to access a list of propulsion, vessel, or environment and navigation screens. The list will pop-up on the right side of the screen.
   b. To view each screen category while in the menu screen, press the desired propulsion, vessel, or environment and navigation button. This will list each screen display name in the selected screen category.
   c. Use the up or down arrow button to select a screen to view. Once you have highlighted a screen display name, press the check button to view the screen. To go back to the screen display list, press the menu button.

Available VesselView Display Screens

The following charts show the available screens for MerCruiser, CMD, Outboard, and Jet Drive engines. The default screens are identified with an "X." Depending on the power package and the installed sensors, the display screens without an "X" can be manually turned on. The menu path is: "Main" > "Settings" > "Screen Options."

MerCruiser Display Screens

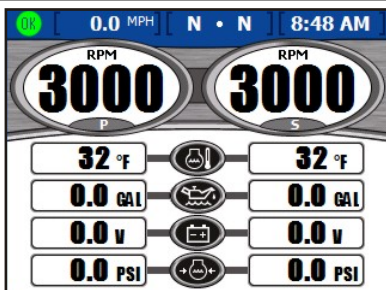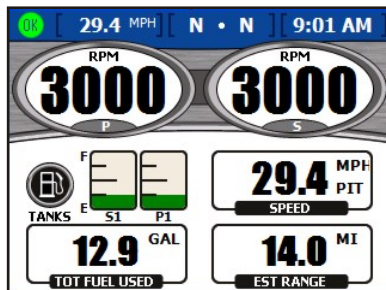| Screen Category	Menu Screen	Gas Sterndrive No Troll	Gas Inboard No Troll	Gas Sterndrive	Gas Inboard	Diesel Sterndrive No Troll	Diesel Inboard No Troll	Diesel Sterndrive	Diesel Inboard
Propulsion	**Engine Status**	X	X	X	X	X	X	X	X
	Performance and Fuel	X	X	X	X	X	X	X	X
	Steering Position	X	X	X	X	X	X	X	X
	Peak Performance	X	X	X	X				
	Trim	X		X					
	Tab	X	X	X	X	X	X	X	X
	Demand and Load					X	X	X	X
	Boost	Menu option							
	Troll Control			X	X			X	X
	Cruise Control	Option (DTS only)							
	Smart Tow	Option (DTS only)							
	Transmission					X	X	X	X
	Intake					X	X	X	X
Vessel	**Vessel Status**	X	X	X	X	X	X	X	X
	Tank Status	X	X	X	X	X	X	X	X
	Generator	X	X	X	X	X	X	X	X
	Steering Position	X	X	X	X	X	X	X	X
Environment and Navigation	**Depth**	X	X	X	X	X	X	X	X
	Trip Log	X	X	X	X	X	X	X	X
	Fuel to Waypoint	GPS only							
	Navigation	GPS only							
	Autopilot (Zeus and Axius only)			Axius only			X	Axius only	
	Joystick (Zeus and Axius only)			Axius only			X	Axius only	
	Skyhook (Zeus and Axius only)			Axius only			X	Axius only	

Outboard and Jet Drive Display Screens
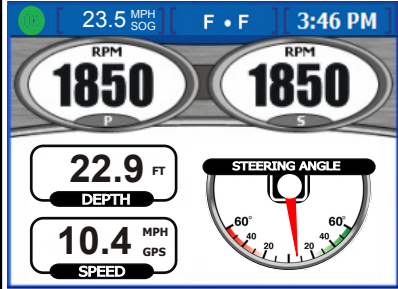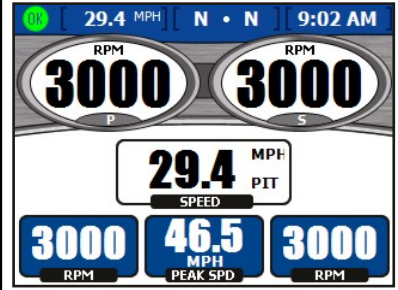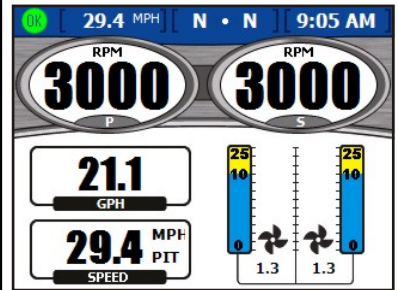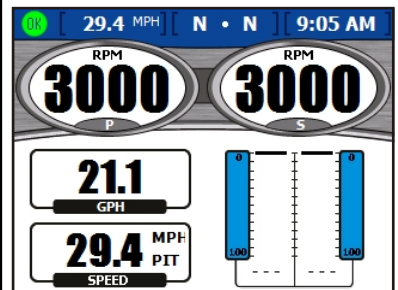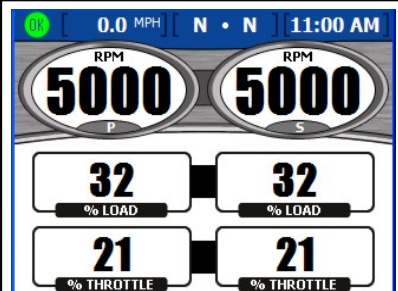
Screen Category	Menu Screen	2-Stroke Gas Outboard	4-Stroke Gas Outboard	Gas Jet Drive	Gas Verado
Propulsion	**Engine Status**	X	X	X	X
	Performance and Fuel	X	X	X	X
	Peak Performance	X	X	X	X
	Trim	X	X		X
	Tab	X	X	X	X
	Boost	Menu option (Verado only)			
	Troll Control	X	X	X	X
	Cruise Control	Option (DTS only)			
	Smart Tow	Option (DTS only)			
Vessel	**Vessel Status**	X	X	X	X
	Tank Status	X	X	X	X
	Generator	X	X	X	X
Environment and Navigation	**Depth**	X	X	X	X
	Trip Log	X	X	X	X
	Fuel to Waypoint	GPS only			
	Navigation	GPS only			
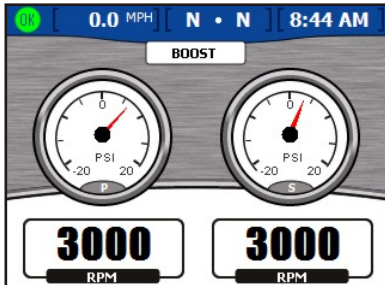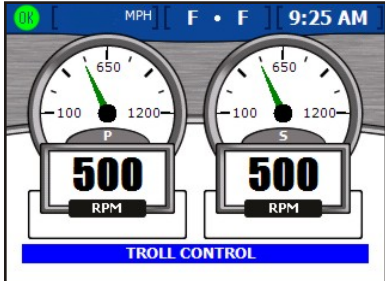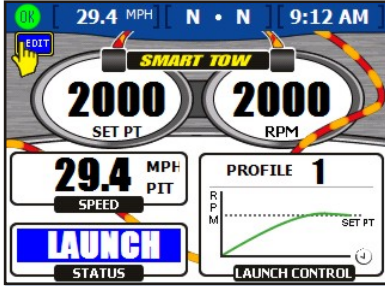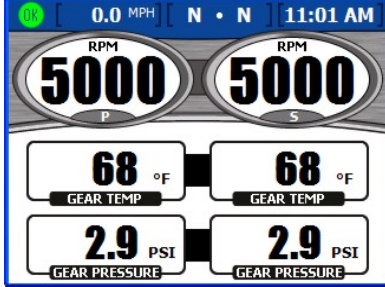
VesselView Display Screens
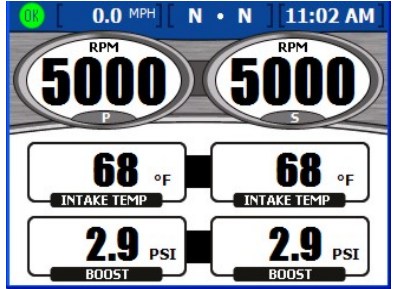
NOTE: *The screens listed in the following charts may vary depending on engine type and number of engines. Refer to* **Available VesselView Display Screens***.*

Propulsion
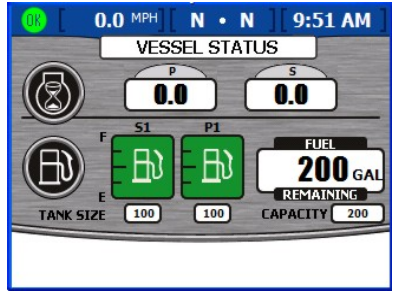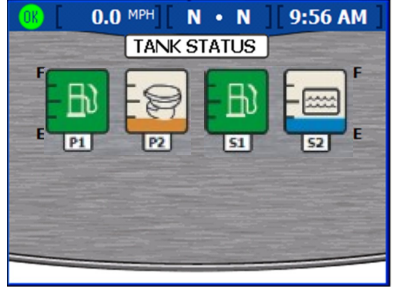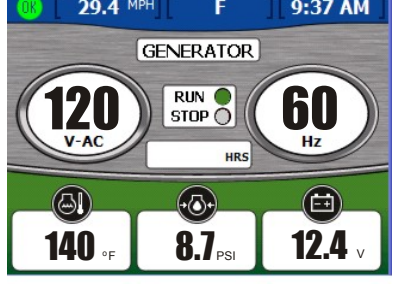
Screen Display Name	Description	Screen
Engine Status	Displays engine RPM and shows various engine data depending on the engine type.	27210
Performance and Fuel	Displays engine RPM, speed, fuel tank levels, total fuel used, and estimated fuel range.	27211

Screen Display Name	Description	Screen
Steering Position	Displays steering position, gear position, speed over ground, bearing to waypoint, wind speed, wind direction, water depth, and boat speed.	45177
Peak Performance	Displays engine RPM and speed, along with the peak RPM and speed.	27212
Trim	Displays engine RPM, speed, gallons per hour, and trim level.	27213
Tab	Displays engine RPM, speed, gallons per hour, and the position of the tabs (Zeus and inboard applications only).	34267
Demand and Load	Displays engine RPM, load, and throttle percentages.	27115
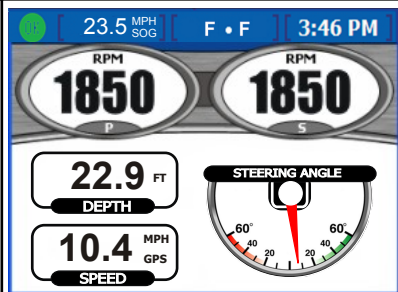
Screen Display Name	Description	Screen
Boost	Displays engine supercharger boost pressure for Verado engines. **NOTE:** *The boost screen can be turned on or off under the "Setup" menu by selecting "Settings" and then "Preferences."*	 27214
Troll Control	Displays engine RPM and allows the operator to set troll speed below 1000 RPM.	 27215
Cruise Control	Allows the operator to set engine RPM above 1000 RPM on a DTS engine.	 27119
Smart Tow	Allows the operator to control the speed of acceleration from idle to set cruise speed on a DTS engine (not available on all versions of VesselView).	 27216
Transmission	Displays engine RPM with transmission gear temperature and pressure.	 27117

Screen Display Name	Description	Screen
Intake	Displays engine RPM, intake temperature, and boost.	27116
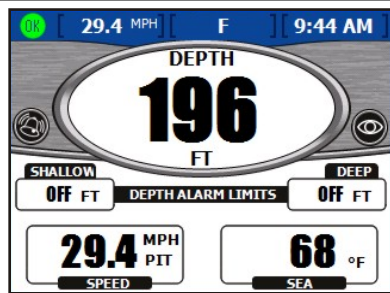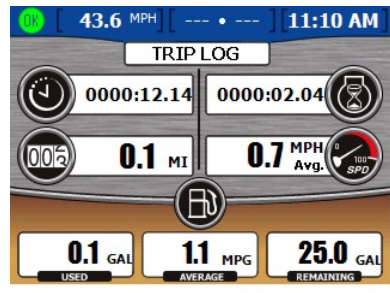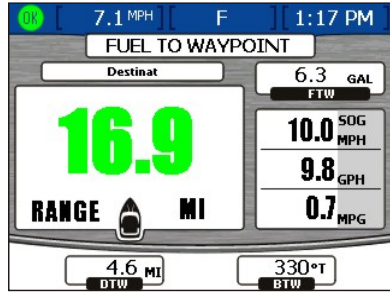
Vessel
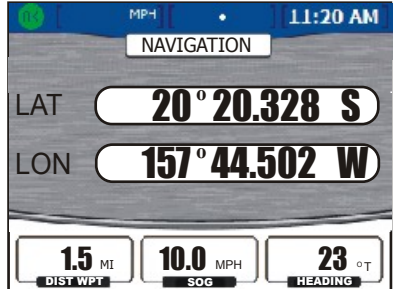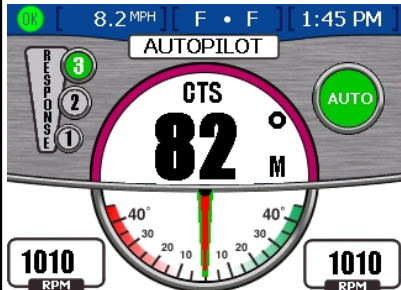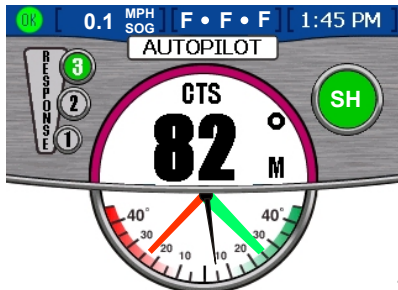
Screen Display Name	Description	Screen
Vessel Status	Displays fuel tank levels with total fuel remaining.	27114
Tank Status	Displays all tank levels and location.	27113
Generator	Displays a group of various generator data. *NOTE: The generator must be capable of SmartCraft protocol language for this display to function.*	27217

Screen Display Name	Description	Screen
Steering Position	Displays steering position, gear position, speed over ground, bearing to waypoint, wind speed, wind direction, water depth, and boat speed.	45177
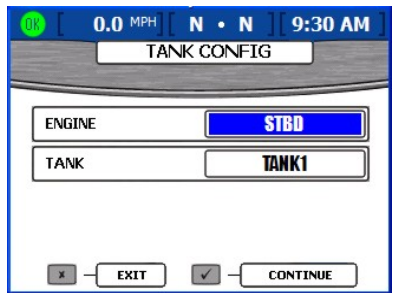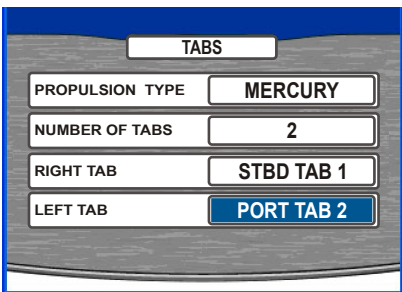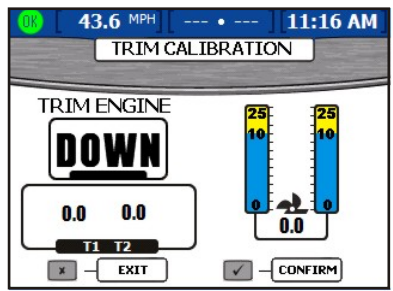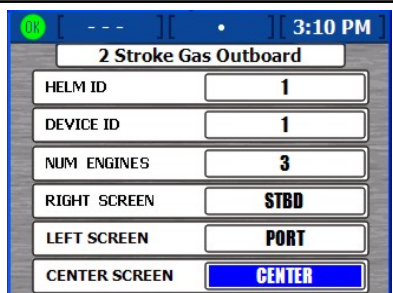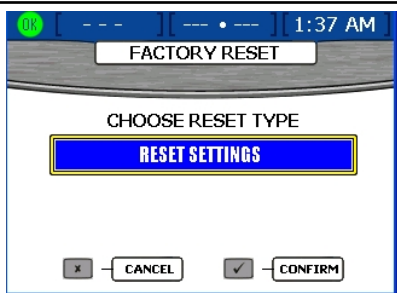
Environment and Navigation
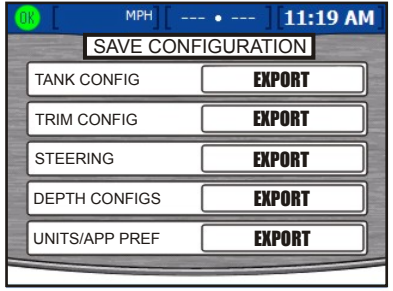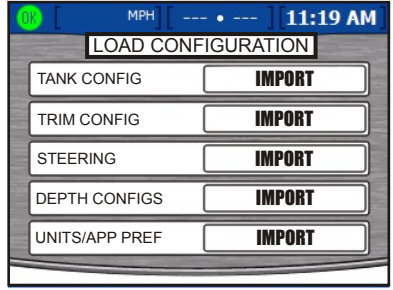
Screen Display Name	Description	Screen
Depth	Displays water depth, speed through the available sensor, water temperature, and allows the operator to change the depth alarm limits.	27218
Trip Log	Displays total trip time, average speed, distance, and fuel usage data.	27220
Fuel to Waypoint	Displays fuel usage data to a specified waypoint.	27110

Screen Display Name	Description	Screen
Navigation	Displays the exact location of the vessel, distance to waypoint, speed over ground, and navigation heading.	
Autopilot	Displays the response level, vessel compass direction, drive location, engine RPM. *NOTE: This feature is only available with Zeus and Axius.*	
Joystick	Displays the vessel compass direction, drive orientation, and amount of drive thrust. *NOTE: This display feature is only available with dual Zeus and Axius. The page is disabled for triple and quad applications.*	
Skyhook	Displays the vessel compass direction and drive thrust location. *NOTE: This display feature is only available with Zeus and Axius. (Triple engine display shown.)*	
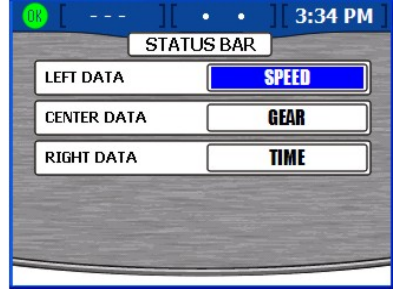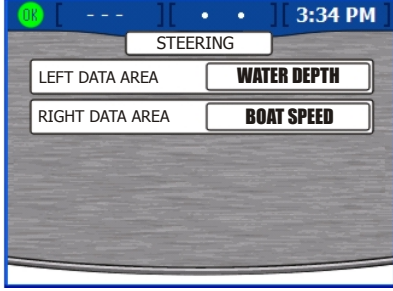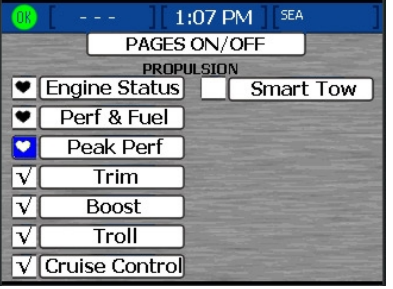
VesselView Setup Screens
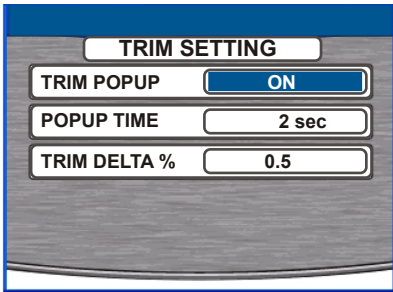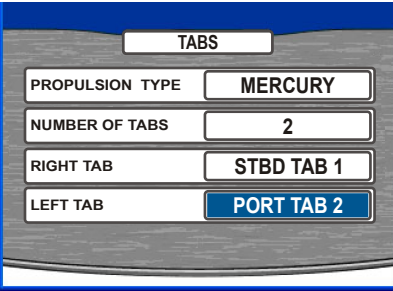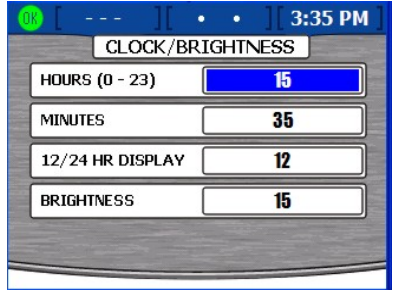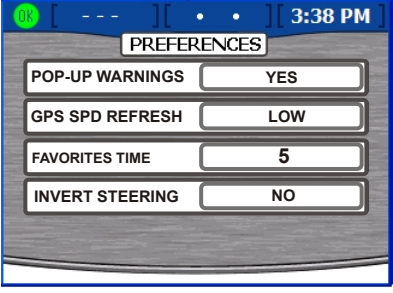
Calibrate
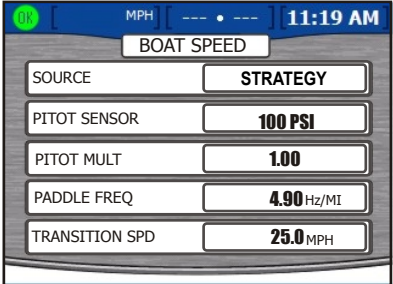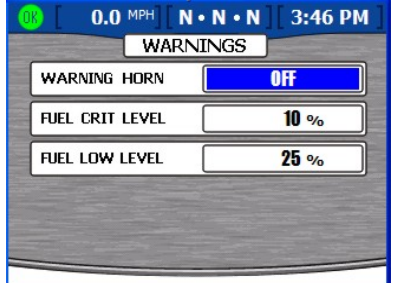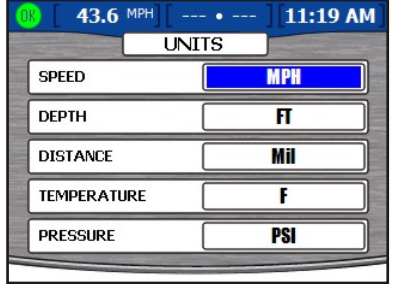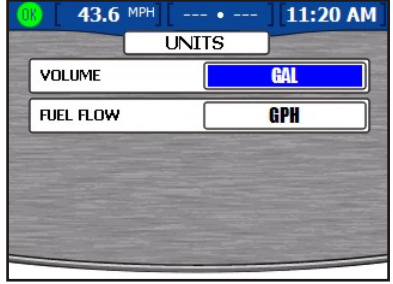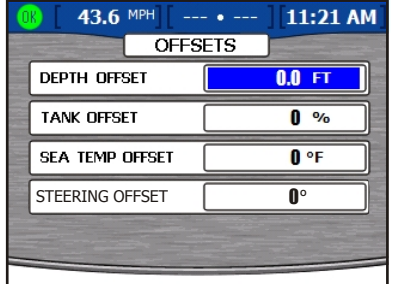
Menu Option	Description	Screen
Tank	Configures each tank by type, size, and location.	27126
Tabs	Configures the propulsion type and number of tabs	45146
Trim	Sets the engine trim levels.	27222
Configuration	Assigns VesselView location, number of engines, and the data display location.	27125
Factory Reset	Resets all VesselView settings to factory default. Can also reset just the engine sensor detection to factory default.	34385

Menu Option	Description	Screen
Save Configs	Used to save selected configuration data to a memory stick.	27235
Load Configs	Used to load configuration data through a memory stick.	27234
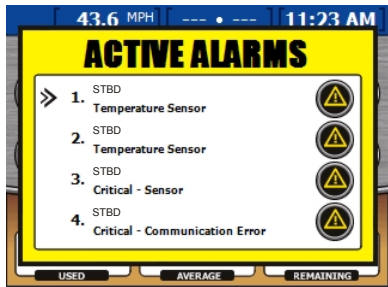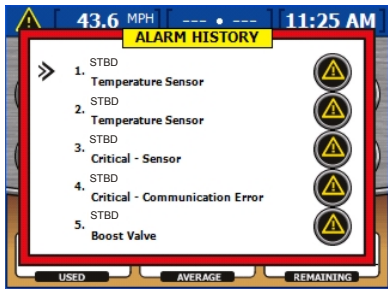
Settings

Menu Option	Description	Screen
Screen Options > Status Bar	Sets the status bar info at the top of every display screen.	27121
Screen Options > Steering	Sets the type of data to display at the bottom of the steering position screen in the vessel menu, and is also used to zero a rudder sensor angle.	34568
Pages On/Off	Enables the user to specifiy what screens in each of the three categories are turned on or off and which screens they want quick access to.	37063
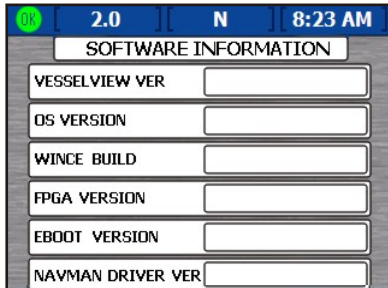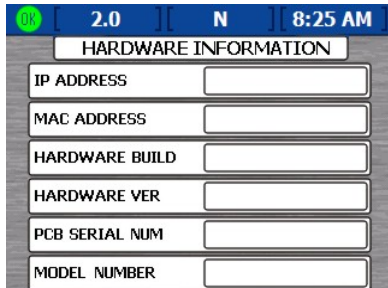
Menu Option	Description	Screen
Trim Settings	Turns the trim pop-up window on or off, sets the amount of time the pop-up remains on the screen and adjusts the trim filter.	TRIM SETTING TRIM POPUP — ON POPUP TIME — 2 sec TRIM DELTA % — 0.5 37067
Tab Settings	Changes the number of tabs available and changes the type and location of the tab.	TABS PROPULSION TYPE — MERCURY NUMBER OF TABS — 2 RIGHT TAB — STBD TAB 1 LEFT TAB — PORT TAB 2 45146
Autopilot Config	Turns the autopilot screens on or off.	OK [- -] [--- • ---] 9:25 AM AUTOPILOT CONFIG SCREENS — OFF 37070
Clock/Light	Sets the clock time and the brightness of the screen.	OK [- -] [• •] 3:35 PM CLOCK/BRIGHTNESS HOURS (0 - 23) — 15 MINUTES — 35 12/24 HR DISPLAY — 12 BRIGHTNESS — 15 27120
Preferences	Sets the pop-up warnings, GPS refresh rate, favorites time, and steering sensor option.	OK [- -] [• •] 3:38 PM PREFERENCES POP-UP WARNINGS — YES GPS SPD REFRESH — LOW FAVORITES TIME — 5 INVERT STEERING — NO 45158

Menu Option	Description	Screen
Boat Speed	Sets the type of speed source as GPS or pitot sensor ("STRATEGY"), adjust the pitot multiplier, paddle frequency, transition speed.	BOAT SPEED — SOURCE: STRATEGY, PITOT SENSOR: 100 PSI, PITOT MULT: 1.00, PADDLE FREQ: 4.90 Hz/MI, TRANSITION SPD: 25.0 MPH. 45160
Warnings	Turns the warning horn on or off and sets the fuel level alarm.	WARNINGS — WARNING HORN: OFF, FUEL CRIT LEVEL: 10 %, FUEL LOW LEVEL: 25 %. 27123
Units	Sets unit of speed, depth, distance, temperature, and pressure.	UNITS — SPEED: MPH, DEPTH: FT, DISTANCE: Mil, TEMPERATURE: F, PRESSURE: PSI. 27223
Units 2	Sets units of volume and fuel flow.	UNITS — VOLUME: GAL, FUEL FLOW: GPH. 27224
Offsets	Sets offset for depth, tank, sea temperature, and steering.	OFFSETS — DEPTH OFFSET: 0.0 FT, TANK OFFSET: 0 %, SEA TEMP OFFSET: 0 °F, STEERING OFFSET: 0°. 34302

Alarms

Menu Option	Description	Screen
Active Alarms	Displays active alarms.	34515
Alarm History	Displays alarms in the history.	34516

System Info

Menu Option	Description	Screen
Software Info	Displays the VesselView software version and other data.	27426
Hardware Info	Displays VesselView hardware information.	27427

Checking Status Using the Status Bar

VesselView displays important information in the status bar at the top of each screen. The status bar displays up to four different icons and messages. Notices of conditions that may need attention (such as warnings, fuel level alerts, and faults) appear as an icon on the left side of the status bar. The fault text will temporarily replace the status bar icons until the fault is cleared. If more than one fault has occurred, the faults will appear one after the other in the sequence they occurred. To clear a fault message from the status bar after the fault has been corrected, press the "**X**" button.

Status information such as time, speed, air temperature, and fuel consumption for example, can appear in either of three data options. The data in these options can be arranged under the "Main" menu by selecting "Settings" > "Screen Options" > "Status bar." Refer to **Section 4 - Status Bar Options.**

NOTE: *When "Diesel Inboard No Troll" is the power package installed, starboard and port tab status bar selection is not available.*

a - Fault icon
b - Left data box
c - Center data box
d - Right data box
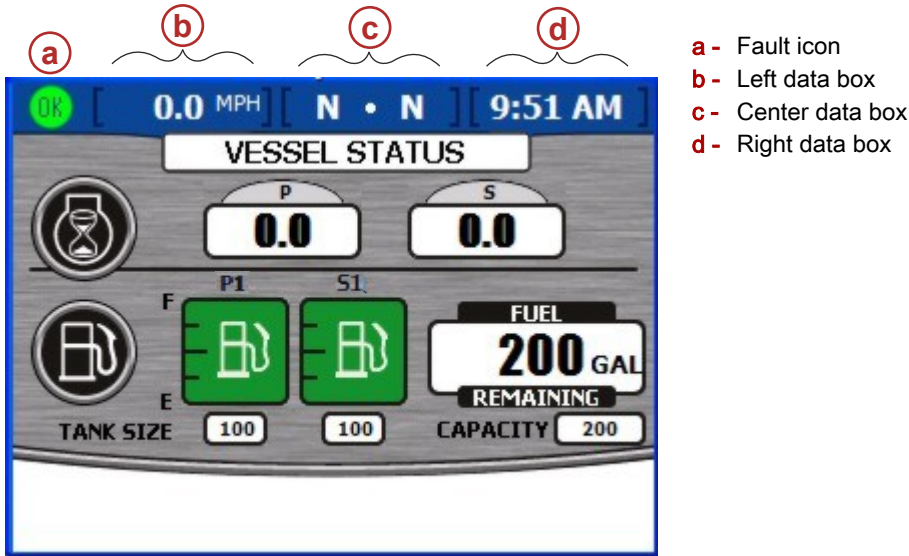
27077

- The following is a list of data options available in the status bar. Depending on the power package installation, some of these options may not be available.

☐ Time

☐ Speed

☐ Speed Over Ground ("SPD OVR GND")

☐ Sea Temperature ("SEA TEMP")

☐ Gear

☐ Fuel Usage

☐ Fuel Level

☐ Depth

☐ Course Over Ground ("CRS OVR GND")

☐ Bearing to Waypoint ("BRNG TO WP")

☐ Air Temperature ("AIR TEMP")

☐ Starboard Tab ("STBD TAB")

☐ Port Tab ("PORT TAB")

☐ Starboard Trim ("STBD TRIM")

☐ Port Trim ("PORT TRIM")

☐ Starboard Center Trim ("SC TRIM")

☐ Port Center Trim ("PC TRIM")

☐ Volts

Fault Icons

VesselView displays fault icons to alert the operator of any faults or warnings with an icon on the left side of the status bar. A description of the fault or warning will appear over the other status bar options. When all systems are operating normally, a green icon with the word "OK" inside will be displayed. For all other faults, there are four icons to warn the operator. The operator can view the fault in detail by pressing the brightness/alarm button. Refer to **Section 4 - Alarms**.

Icon or Message	Icon Description	Warning Description
26889	Blue "OK" inside a green circle.	All systems are operating normally.
34278	A blue background with a white speedometer and a white arrow.	Cruise control is engaged.
26890	Yellow "!" on a black background in a yellow triangle.	Warning - A fault has occurred.
26891	White "!" inside a red triangle.	Alarm - A fault has occurred and has activated Engine Guardian.
26892	Black fuel pump on a yellow background inside a black circle.	Fuel Level Low (The warning pop-up will appear to acknowledge the critical fuel level. The warning pop-up can be turned off, but the status bar icon and message will always appear.)
26893	White fuel pump on a red background inside a black circle.	Fuel Level Critical (A warning horn will begin and the warning pop-up will appear to acknowledge the critical fuel level. The audible alarm and the warning pop-up can both be turned off, but the status bar icon and message will always appear.)

Fuel Alarms

IMPORTANT: A fuel fault alarm will only occur if all the fuel tanks connected to VesselView are low with fuel. If only one fuel tank is low, the system will not identify a fault. The system looks at all tanks defined as fuel and adds them all together into a single sum. The alarms are based off of the sum of all fuel tanks.

Fuel Low Level Icon—This icon will appear when the "FUEL LOW LEVEL" percentage of remaining fuel is reached. By default, VesselView has the low level percentage set to 25%. This percentage can be adjusted in the "WARNINGS" screen. The menu path is: "Main" > "Settings" > "Warnings." Refer to **Section 4 - Warnings**.

Fuel Critical Level Icon—This icon will appear when the "FUEL CRIT LEVEL" percentage of remaining fuel is reached. By default, VesselView has the critical level percentage set to 10%. This percentage can be adjusted in the "WARNINGS" screen. The menu path is: "Main" > "Settings" > "Warnings." Refer to **Section 4 - Warnings**.

In conjunction with the fault icon and message appearing in the status bar, a warning horn and pop-up window will alert the operator. Both of these can be turned on or off, but the status bar icon and warning message will always appear.

• The audible warning is set within the "WARNINGS" screen. The menu path is: "Main" > "Settings" > "Warnings." Refer to **Section 4 - Warnings**.

• The warning pop-up window is set within the "PREFERENCES" screen. The menu path is: "Main" > "Settings" > "Preferences." Refer to **Section 4 - Preferences**.

Using the Menu Panel

The menu button opens the specific window information that is displayed in the propulsion, vessel, or environment and navigation screens. The menu button is also a quick access to the calibration, settings, settings 2, alarms, system, and RPM bands information screens. To use the menu panel, follow these steps:

1. Press the menu button. The menu panel specific to the currently open screen category ("Propulsion," "Vessel," "Env/Nav") appears.

2. Use the arrow button to navigate to the appropriate menu panel.

3. Press the check button to confirm your choice.

   a. To see the available propulsion screens, press the propulsion button and then the menu button. The "Propulsion" menu panel appears.
   IMPORTANT: The available VesselView menu items and options may display differently than those shown in the following illustrations. Menu items and options are dependent on the engine type, and if screens have been manually turned on or off.
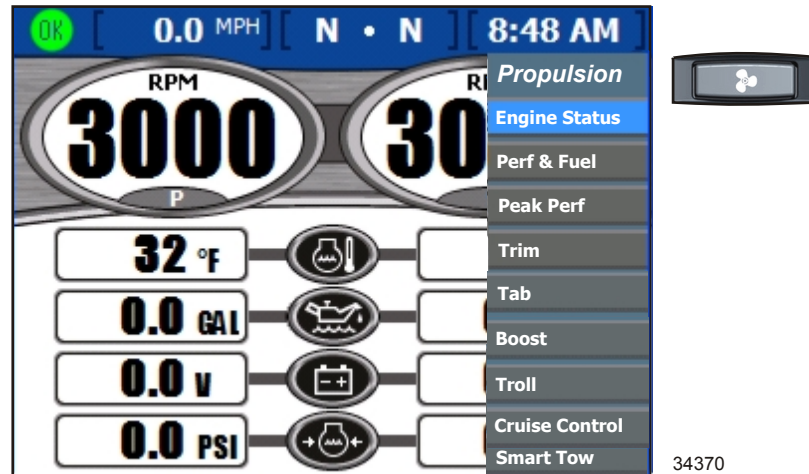
Propulsion Menu Panel

   b. To see the available vessel screens, press the vessel button and then the menu button. The "Vessel" menu panel appears.
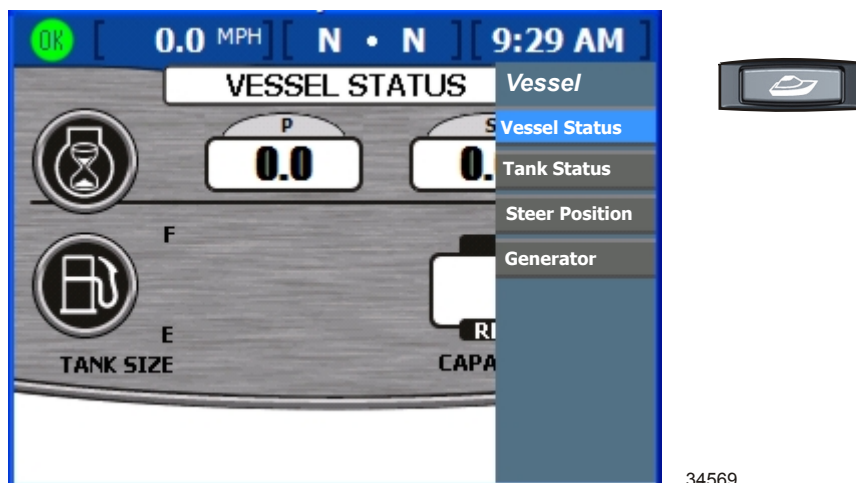
Vessel Menu Panel

c. To see the available environment and navigation screens, press the environment and navigation button and then the menu button. The "Env/Nav" menu panel appears.
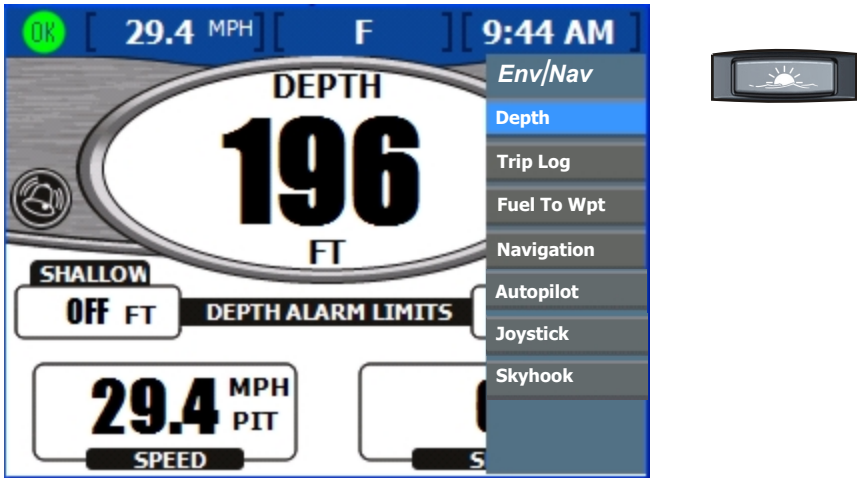
37089

d. To see the available main screens, with the menu panel open in any of the categories, press the menu button. The "Main" menu panel appears. When the menu button is pressed again VesselView toggles back to the category menu.
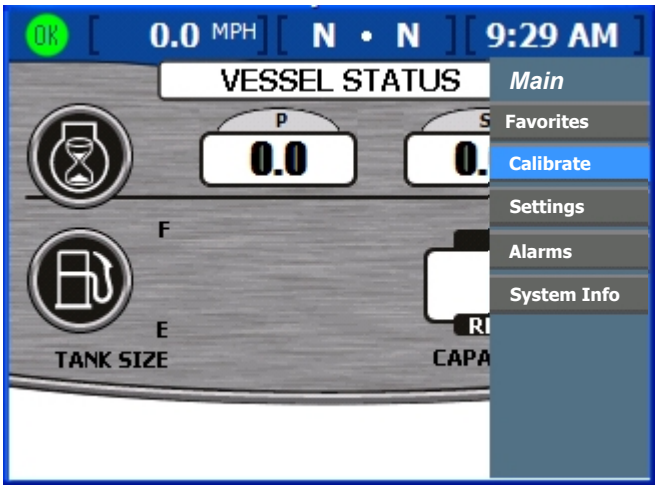
a - "Calibrate" menu
b - "Settings" menu
c - "Alarms" menu
d - "System Info" menu
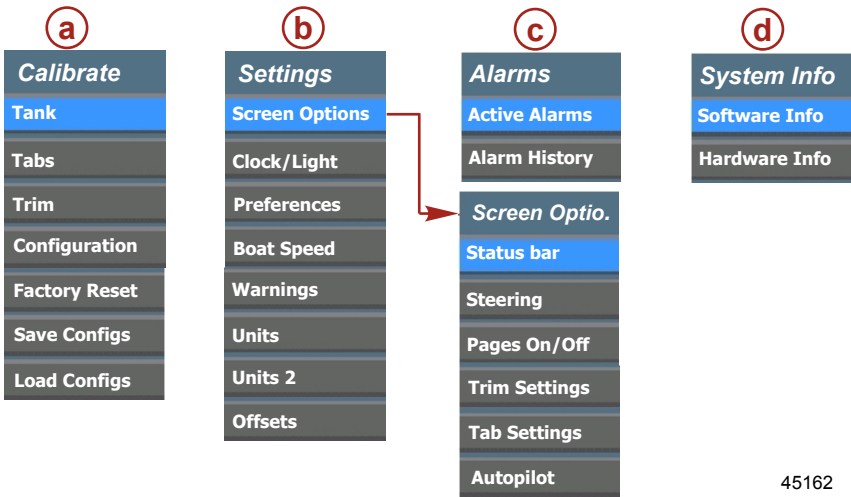
45162

Navigating Through the Screens

There are three ways to navigate through the various VesselView screens.

1. By pressing the propulsion button, vessel button, or the environment and navigation button. The available screens in each category can be adjusted so only a few screens appear in each category.

2. By pressing the left or right arrow button on the arrow pad. This will toggle through the available screens of the selected category.

3. By pressing the menu button. The available screens in each category will appear in the menu list of data screens.

Using Pop-Up Windows

Pop-up windows appear within screens. Pop-up windows show alarms, allow access to controls or functions specific to a screen, and allow changes to settings or calibration.

The control icon appears in the upper left corner of any screen that includes a pop-up window for access to controls and screen functions. The control icon disappears about 3 seconds after each screen is loaded. To open a pop-up window from one of these screens, press the check button. To close any pop-up window, press the "**X**" button.

26876

Control icon

Alarms and Faults

Some alarms and faults display pop-up windows to notify you of a condition requiring your attention. Refer to **Section 4 - Alarms** for more information about alarms and fault codes.

To close a pop-up window displaying an alarm or fault information, press the "**X**" button. You can review the alarm information in two ways:

1. Press the brightness/alarm button to see active alarms and faults in a pop-up window.

2. Review the alarm information in the "Main" menu.

    a. Press the menu button until the "Main" menu appears.

    b. Use the down arrow button to select "Alarms."

    c. Press the check button to open the "Alarms" menu.

    d. Use the down arrow button to select "Active Alarms" to review current alarm information, or select "Alarm History" to review all alarms recorded since the last factory reset.

    e. Press the check button to open the alarm screen you chose.

    f. Press the "**X**" button to close the pop-up window when you finish reviewing the alarms.

Screen Brightness
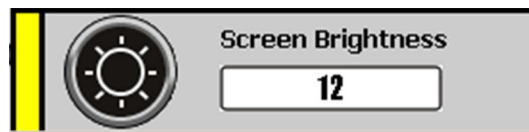
26950

Screen brightness pop-up window

The brightness pop-up window controls the brightness of the screen on a scale of 0 to 15. To adjust screen brightness, use the following steps:

1. Press the brightness/alarm button. The "Screen Brightness" pop-up window appears.

2. Use the right or left arrow button to adjust screen brightness. The right arrow increases brightness. The left arrow decreases brightness.

3. Press the check button to save the selected screen brightness.

Notes:

Section 4 - Main Menu

Table of Contents

4

Favorites

"Favorites" is a function of VesselView that allows the viewer to select specific screens as their favorite type of information that will scroll through the various pages. The length of time the favorite information screen remains visible is programmable from 5 to 20 seconds. Each category; "Propulsion," "Vessel," or "Environment and Navigation," has a variety of default screen layouts with different information on each. Each screen option selected will have a heart shaped icon indicating the selection is designated as a favorite. Favorites will not populate the category until the pages are selected as a favorite. The favorites can be selected in the "PAGES ON/OFF" screen. The menu path is: "Main" > "Settings" > "Screen Options." The favorites duration time can be changed in the "PREFERENCES" screen. The menu path is: "Main" > "Settings" > "Preferences."
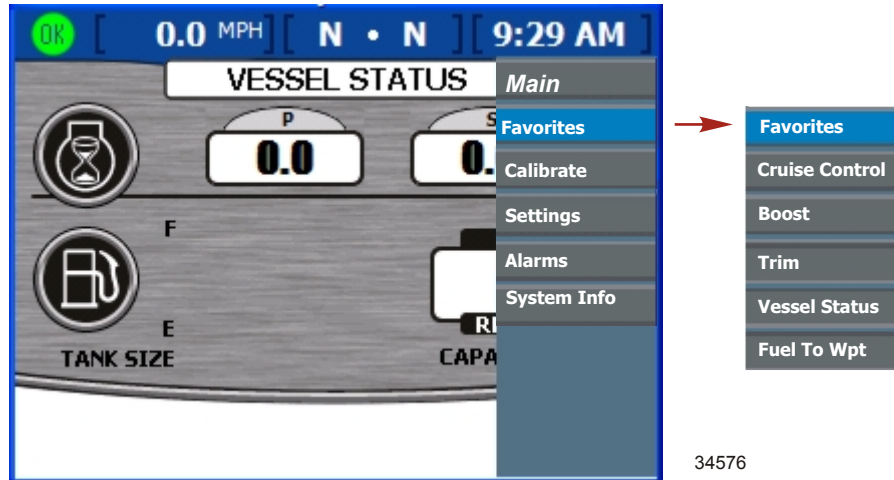
34576

Calibrate Menu

The "Calibrate" menu enables access to configure and adjust parameters within the VesselView for multiple types of holding tanks, tabs, trim, helm location, VesselView location, number of engines, organize screen displays, factory reset the settings, sensor detection, save (export) the VesselView configurations to a USB memory stick, and to load (import) saved VesselView configurations from a USB memory stick.

Tank Menu

The "Tank" calibration menu option provides flexibility to make adjustments to existing calibration settings or to perform the calibration process without the assistance of the setup wizard. These tanks can be configured specifically for their size, shape, and what they contain; fuel, oil, water, or waste. The process begins with defining the purpose of each tank on the vessel. The next screen asks for the size of each tank. The third screen asks for a location label for each tank. This label is an identifier on the VesselView screen where the tank physically resides on the vessel.

Tabs Menu

The "Tabs" calibration procedure utilizes the same tab calibration screens used in the setup wizard. There are additional calibration options that provide flexibility to make adjustments for the tab position sensor resistance changes as the tab is raised or lowered. These adjustments may be necessary for the VesselView tab screen to accurately represent the positions of the tab.

Trim Menu

The "Trim" calibration menu provides options not available with the setup wizard. There are two methods of calibrating the trim. "DEFAULT" is a quick method and may not display the position accurately. The "MANUAL" method provides flexibility to make adjustments for the trim position sensor resistance changes as the trim is raised or lowered. These adjustments may be necessary for the VesselView trim screen to accurately represent the positions of the trim.

Configuration Menu

The "Configuration" calibration menu provides options to assign the VesselView a helm location and a unique device identification number when more than one VesselView is used. It is also used to define the number of engines and select where the engine data should be displayed on the VesselView screen.

Factory Reset Menu

The "Factory Reset" menu is used to reset all VesselView settings to the factory default, or to perform a sensor detection. When the VesselView is first configured during the setup wizard, the system will automatically detect sensors that are present and ignores sensor inputs that have no sensors attached. If a sensor is removed from the system after the initial configuration, VesselView will show faults for the removed sensor. VesselView will scan for sensors and eliminate the fault message.

Save Configs Menu

After the system has been completely configured, the "SAVE CONFIGURATION" option exports (saves) all configuration settings to a USB memory stick for use with other VesselView units or for quick recovery of stored configuration settings. This saves time by importing a configuration without having to complete the entire setup wizard and other calibrations.

IMPORTANT: The VesselView unit will recognize USB memory sticks of version 1.1 or a USB memory stick of version 2.0 that is stated to be backwards compatible to version 1.1. The VesselView unit will not recognize memory sticks that are only version 2.0 compatible.
IMPORTANT: Configuration settings saved to a USB memory stick are compiled into one data file. Only one file can exist in the root of the USB memory stick. VesselView will not recognize multiple import files.

Load Configs Menu

After a configuration file was exported to the USB memory stick, the "LOAD CONFIGURATION" menu imports the configuration settings into another VesselView unit.

Settings

Settings Menu Options

IMPORTANT: The available VesselView menu items and options are dependent on the engine type, and if screens have been manually turned on or off.

The "Settings" menu enables you to customize VesselView. The "Settings" menu items include the following:
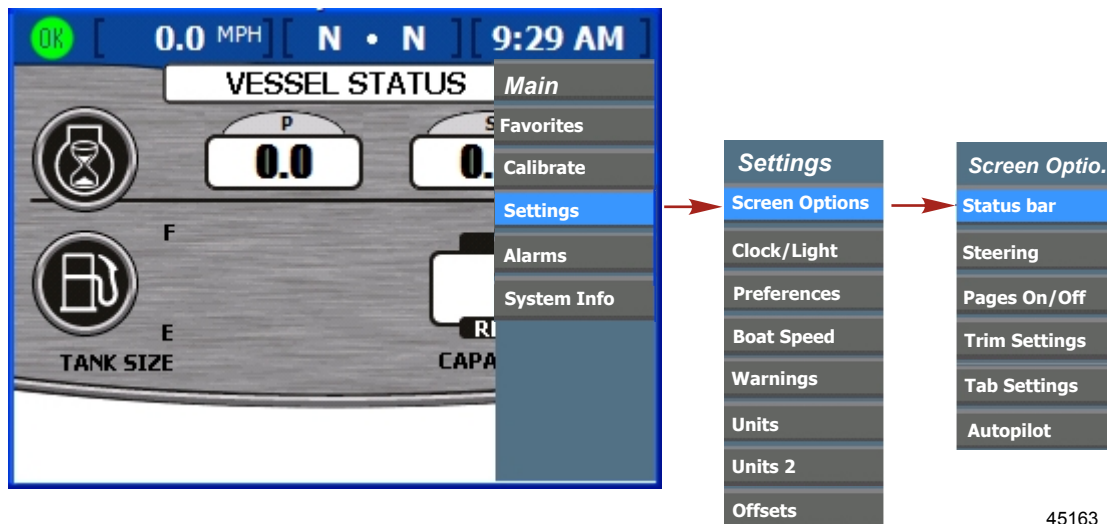
45163

*NOTE: After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "**X**" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.*

Status Bar Options

The status bar is located at the top of the screen and is separated in three different data options. Changes to the status bar are made in the "STATUS BAR" screen. The menu path is: "Main" > "Settings" > "Screen Options" > "Status bar." Press the check button to open the "STATUS BAR" screen.

a - Left data
b - Center data
c - Right data
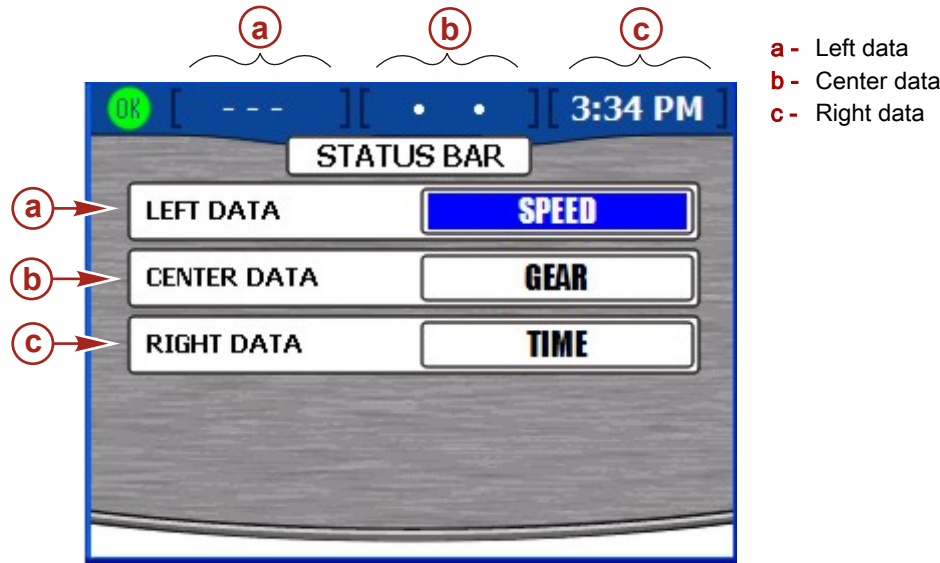
27132

1. The "STATUS BAR" screen will open with the "LEFT DATA" option highlighted in blue.
2. Press the left or right arrow on the arrow pad to scroll through the available display data. The data available to display is:

   - "TIME"—Clock
   - "SPEED"—Vessel speed (default)
   - "SPD OVR GRD"—Speed over ground (GPS)
   - "SEA TEMP"—Seawater temperature
   - "GEAR"—Shift position
   - "FUEL USAGE"—Fuel used
   - "FUEL LEVEL"—Fuel tank level
   - "DEPTH"—Water depth
   - "CRS OVR GND"—Course over ground (GPS)

   - "BRNG TO WP"—Bearing to waypoint (GPS)
   - "AIR TEMP"—Air temperature
   - "STBD TAB"—Starboard tab position
   - "PORT TAB"—Port tab position
   - "STBD TRIM"—Starboard trim position
   - "PORT TRIM"—Port trim position
   - "SC TRIM"—Starboard center trim position
   - "PC TRIM"—Port center trim position
   - "VOLTS"—Battery voltage

3. Press the down arrow on the arrow pad to proceed to the "CENTER DATA" option.
4. Press the left or right arrow on the arrow pad to scroll through the available display data.
5. Press the down arrow on the arrow pad to proceed to the "RIGHT DATA" option.
6. Press the left or right arrow on the arrow pad to scroll through the available display data.
7. Once you have selected the status bar display data, press the check button to save the session.

NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings**.

Steering Options

The "STEERING" screen enables you to set the display data in the vessel screen "STEERING POSITION." Refer to **Section 6 - Vessel Menu**. The menu path is: "Main" > "Settings" > "Screen Options" > "Steering." Press the check button to open the "STEERING" screen.

1. Use the left or right arrow to scroll through the options in the "LEFT DATA AREA" option. Choose which information to display in the option appearing on the bottom left of the "STEERING POSITION" screen. The available options are:
   - "BOAT SPEED"—Vessel speed
   - "WIND DIR"—Wind direction
   - "WATER DEPTH"—Water depth
   - "GEAR POS"—Gear position
   - "WIND SPEED"—Wind speed

- "COG"—Course over ground
- "BTW"—Bearing to waypoint
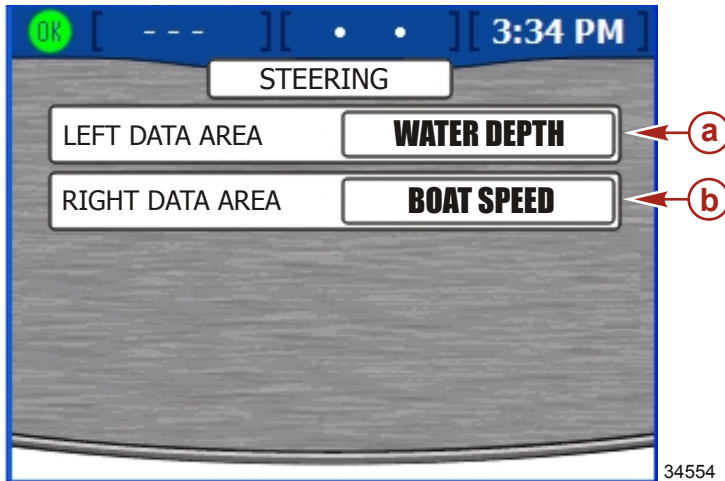
a - Left data area box
b - Right data area box

34554

2. Press the down arrow to proceed to the "RIGHT DATA AREA" option.
3. Use the left or right arrow to choose which information to display in the option appearing on the bottom right of the "STEERING POSITION" screen.
4. Once you have selected the screen display data, press the check button to save the session.

NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings***.*

Pages On/Off Options

VesselView enables a user to specify what screens in each of the three categories they want to have quick access to. Each category; "Propulsion," "Vessel," or "Environment," has a variety of default screen layouts with different information on each. The menu path is: "Main" > "Settings" > "Screen Options" > "Pages On/Off." Press the check button to open the "PAGES ON/OFF" screen.

37088

Page/Screen Favorites

VesselView also enables a user to specify what screens in each of the three categories they want to have as favorites. Each page selected as a favorite will have a heart shape icon. Each page selected as a favorite will flash on the screen for a specific amount of time and will also be available when changing to the "Propulsion," "Vessel," or "Environment" category. The time duration is programmable from 5 to 20 seconds in the "PREFERENCES" menu.

a - Selected favorites
b - Selected pages on
c - Not selected

34057
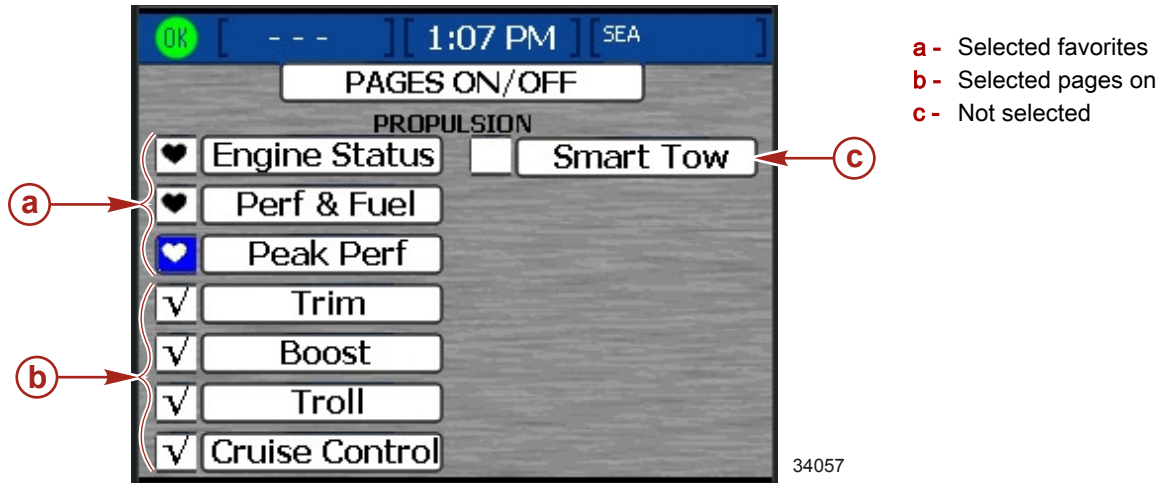
Trim Setting

The "TRIM SETTING" turns the trim pop-up window on or off, sets the amount of time the pop-up remains on the screen, and adjusts the trim filter. A high filter setting requires the trim to be moved farther before the pop-up window turns on. The menu path is: "Main" > "Settings" > "Screen Option" > "Trim Setting."

a - Trim pop-up window activation
b - Trim pop-up window time
c - Trim filter

37108
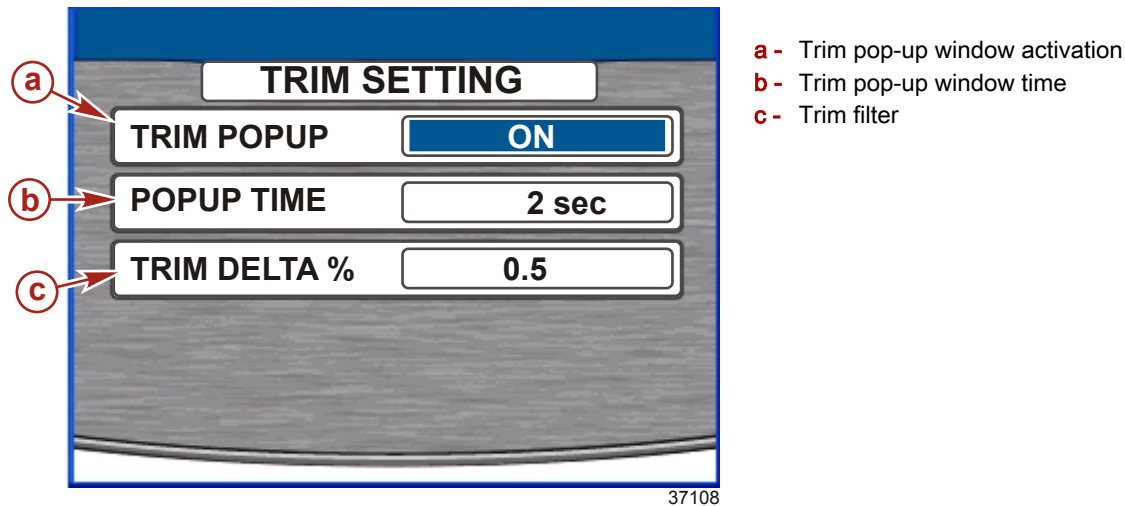
1. Upon entering the "TRIM SETTING" the "TRIM POPUP" will be highlighted in blue.
2. Press the left or right arrow to turn the trim pop-up window on or off.
3. Press the down arrow to highlight the "POPUP TIME."
4. Press the left or right arrow to change the amount of time the trim pop-up window remains on the screen from two seconds ("2 sec") to 60 seconds ("60 sec").
5. Press the down arrow to highlight the "TRIM DELTA %."
6. Press the left or right arrow to adjust the percentage of travel the engine or drive must move before the trim pop-up will appear. The percent range is from 0.1 to 9.9. In addition to the delta percent adjustment is "USE TRIM FLAG" option.

NOTE: Setting a higher percentage requires the engine or drive to be trimmed for a longer duration to activate the pop-up window. For example, setting the "TRIM DELTA %" parameter at 2% demands that the trim system must move 2% in one second for the trim pop-up window to appear. If you restrict trim movement to a percentage lower than this parameter, the trim pop-up window will not appear. This way you can perform fine trim adjustments by pressing the trim control button for short periods without activating the trim pop-up. Using the "USE TRIM FLAG" option will activate the pop-up window every time the trim button is activated and may cause the trim pop-up window to appear several times whenever the ignition key is turned to the "ON" position.

Tab Settings

The "Tab Settings" option allows changes in the number of SmartCraft compatible tabs available, the type, and location of the tab. The menu path is: "Main" > "Settings" > "Screen Options" > "Tab Settings." "MERCURY" or "POD" must be selected for VesselView to display the tabs. If the power package is Zeus, adjustment of the tabs is not required. If the power package originally has tabs installed, the tabs have been configured during the device setup. Refer to **Section 2 - Device Setup**.

a - Propulsion type
b - Number of tabs
c - Starboard tab
d - Port tab
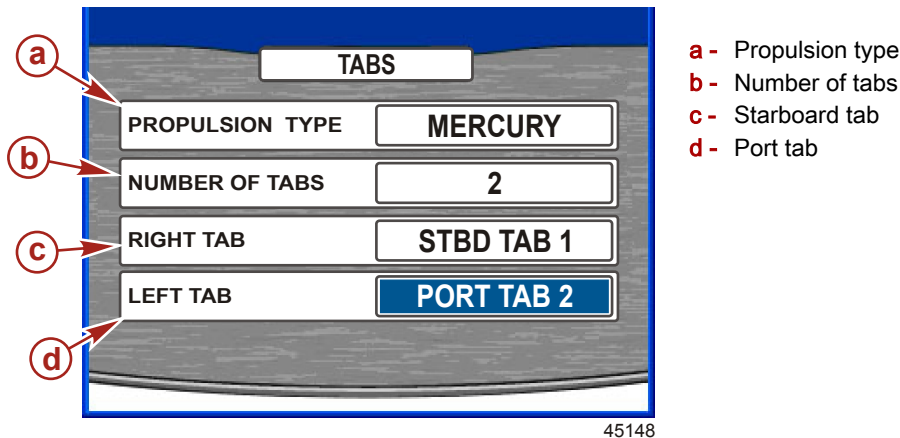
45148

1. Upon entering "TABS," the "PROPULSION TYPE" window will be highlighted in blue.
2. Press the left or right arrow to change to "NONE," "MERCURY," or "POD." When "POD" is selected calibration is not required.

   NOTE: A third tab is available and is identified as "CENTER TAB."
3. Press the down arrow to highlight "NUMBER OF TABS."
4. Press the left or right arrow to change the number of tabs.
5. Press the down arrow to highlight "RIGHT TAB."
6. Press the left or right arrow to identify the tab location.
7. Press the down arrow to highlight "LEFT TAB."
8. Press the left or right arrow to identify the tab location.
9. Continue with the third tab where applicable.

Autopilot Config

The "AUTOPILOT CONFIG" must be edited to turn the autopilot screens on. The menu path is: "Main" > "Settings" > "Screen Options" > "Autopilot."
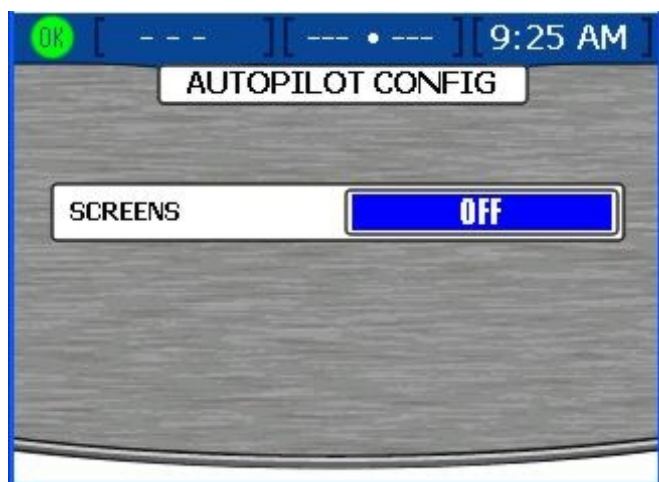
37124

1. Upon entering "AUTOPILOT CONFIG," the "SCREENS" option will be highlighted in blue.
2. Use the left arrow to turn the autopilot screens "OFF."
3. Use the right arrow to turn the autopilot screens "ON."

Clock/Light

The settings for the clock are found in the "CLOCK/BRIGHTNESS" screen. The menu path is: "Main" > "Settings" > "Clock/Light." Press the check button to open the "CLOCK/BRIGHTNESS" screen.

a - Hours
b - Minutes
c - 12/24 hour display
d - Brightness
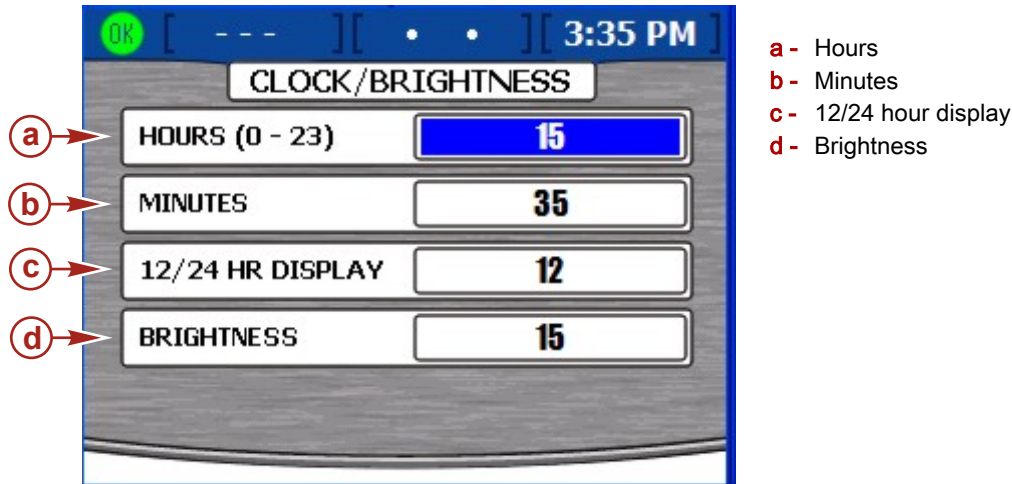
27135

1. Upon entering the "CLOCK/BRIGHTNESS" screen, the "HOURS (0-23)" option will be highlighted in blue.
2. Press the left or right arrow on the arrow pad to select the hour of the day based on a 24 hour clock, even if you use a 12 hour clock display.
3. Press the down arrow on the arrow pad to proceed to the "MINUTES" option.
4. Press the left or right arrow on the arrow pad to select minutes after the hour.
5. Press the down arrow on the arrow pad to proceed to the "12/24 HR DISPLAY" option.
6. Press the left or right arrow on the arrow pad to choose between the 12 and 24 hour clock display.
7. Press the down arrow on the arrow pad to proceed to the "BRIGHTNESS" option.
8. Press the left or right arrow on the arrow pad to adjust screen brightness. The right arrow increases brightness and the left arrow decreases brightness.
9. Once you have selected the preferred clock settings, press the check button to save the session.

NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings**.

Preferences

The "PREFERENCES" screen enables you to enable or disable the pop-up warnings, adjust the GPS refresh rate of speed, adjust the amount of time a favorite screen is visible, and adjust the steering sensor values. The menu path is: "Main" > "Settings" > "Preferences." Press the check button to open the "PREFERENCES" screen.

a - Pop-up warnings
b - GPS speed refresh
c - Favorites time
d - Invert steering

45152
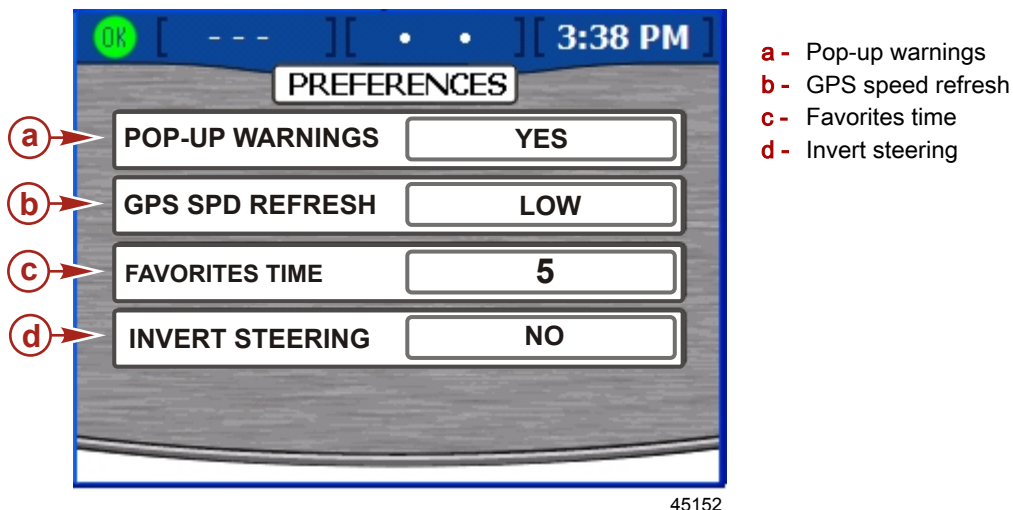
1. Upon entering the "PREFERENCES" screen, the "POP-UP WARNINGS" option will be highlighted in blue.
2. Press the left or right arrow on the arrow pad to select "YES" or "NO." If you choose "YES," the "ACTIVE ALARMS" pop-up window will appear if an alarm is activated.
3. Press the down arrow on the arrow pad to proceed to the "GPS SPD REFRESH" option.
4. Press the left or right arrow on the arrow pad to select between "LOW," or "HIGH." This setting relates to the refresh rate when using a control area network (CAN) based GPS.

    NOTE: *A high refresh rate is a more accurate reading because the display is receiving data more often, but the VesselView page transition will slow down. A low refresh rate is less demanding which allows the changing of pages to occur more quickly.*

5. Press the down arrow on the arrow pad to proceed to the "FAVORITES TIME" option.
6. Press the left or right arrow on the arrow pad to change the amount of time the screens selected as favorite remain visible before the next favorite appears.
7. Press the down arrow on the arrow pad to proceed to the "INVERT STEERING" option.
8. Invert steering is used to display the rudder angle position in the opposite direction from default. The signal can be inverted to display the steering angle according to personal preference. Press the left or right arrow on the arrow pad to choose "YES" or "NO" to invert steering.
9. Once you have finished selecting your preference settings, press the check button to save the session.

    NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings**.

Boat Speed

The "BOAT SPEED" screen enables you to set the type of speed source as GPS or pitot sensor ("STRATEGY"), adjust the pitot multiplier, paddle frequency, and transition speed. The menu path is: "Main" > "Settings" > "Boat Speed." Press the check button to open the "BOAT SPEED" screen.

a - Source
b - Pitot sensor
c - Pitot multiplier
d - Paddle frequency
e - Transition speed
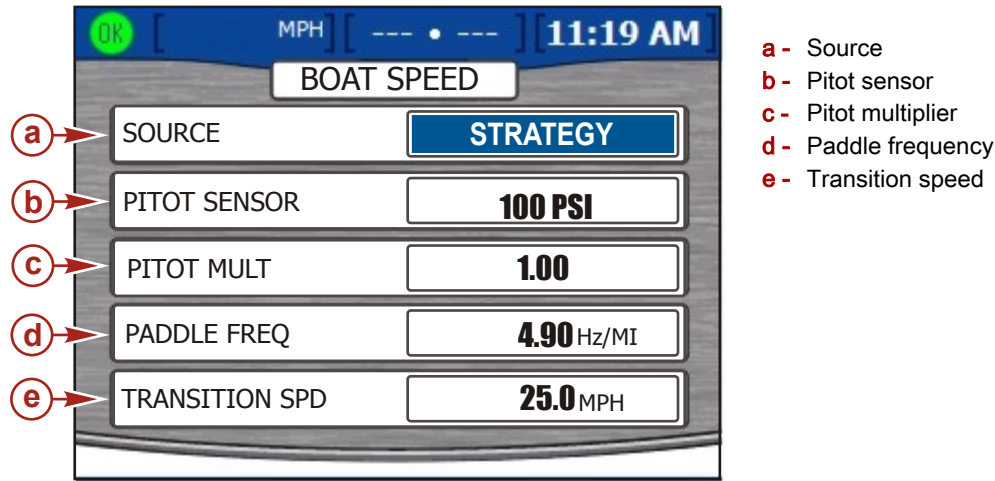
45149

1. Upon entering the "BOAT SPEED" screen, the "SOURCE" option will be highlighted in blue.
2. Press the left or right arrow on the arrow pad to select between "STRATEGY" or "GPS."

   NOTE: "STRATEGY" allows control of the speed input source; pitot sensor and paddle wheel. Selecting "GPS" does not allow any input changes.

3. Press the down arrow on the arrow pad to proceed to "PITOT SENSOR."
4. Press the left or right arrow on the arrow pad to select between "100 PSI" and "200 PSI."

   NOTE: The standard speed input on Mercury production engines is 100 PSI. Certain high performance applications may require a 200 PSI input.

5. Press the down arrow on the arrow pad to proceed to the "PITOT MULT" option.
6. The pitot multiplier will use 1.00 as a default setting and can be increased or decreased to correct speed display readings that read too high or too low. For a low speed reading, increase the pitot multiplier by pressing the right arrow on the arrow pad. For a high speed reading, decrease the pitot multiplier by pressing the left arrow on the arrow pad.
7. Press the down arrow on the arrow pad to proceed to the "PADDLE FREQ" option.
8. Frequency can be changed to match the requirements of different sensors. The frequency of the paddle wheel speed sensor provided by Mercury Marine is 4.9 Hz per mile or 5.7 HZ per knot. Press the left or right arrow on the arrow pad to decrease or increase the frequency.
9. Press the down arrow on the arrow pad to proceed to the "TRANSITION SPD" option.
10. Transition speed is the boat speed at which VesselView stops looking at the paddle wheel and starts looking at the pitot when equipped. The default setting is 25.0 MPH and can be set as low as 3.1 MPH. Press the left or right arrow on the arrow pad to decrease or increase the transition speed.
11. Once you have finished adjusting your sensors, press the check button to save the session.

NOTE: After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.

Warnings

The "WARNINGS" screen enables you to turn the VesselView warning horn on or off and to adjust the fuel level alarm values. The menu path is: "Main" > "Settings" > "Warnings." Press the check button to open the "WARNINGS" screen.

a - Warning horn
b - Fuel critical level
c - Fuel low level

27143

1. Upon entering the "WARNINGS" screen, the "WARNING HORN" option will be highlighted in blue.

    NOTE: The VesselView warning horn can be turned "ON" or "OFF." By selecting "OFF," all engine alarms will be heard through the key switch harness warning horn. By selecting "ON," all alarms will be heard through the key switch harness horn and the VesselView horn. For warning horn details, refer to **Alarms**.

2. Press the left or right arrow on the arrow pad to select either "ON" or "OFF."

3. Press the down arrow on the arrow pad to proceed to the "FUEL CRIT LEVEL" option.

4. The fuel critical level default setting is 10% and can be increased by pressing the right arrow on the arrow pad.

    NOTE: The fuel critical level percentage cannot be set below 10%, or higher than the fuel low level percentage.

5. Press the down arrow on the arrow pad to proceed to the "FUEL LOW LEVEL" option.

6. The fuel low level default setting is 25% and can be increased by pressing the right arrow on the arrow pad. The highest you may set the fuel low level is 50%.

    NOTE: The fuel low level percentage cannot be set below the fuel critical level percentage.

7. Once you have finished adjusting your warnings, press the check button to save the session.

NOTE: After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "**X**" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.

Units

The "UNITS" screen enables you to set the units of measure for speed, depth, distance, temperature, and pressure. The menu path is: "Main" > "Settings" > "Units." Press the check button to open the "UNITS" screen.

a - Speed
b - Depth
c - Distance
d - Temperature
e - Pressure
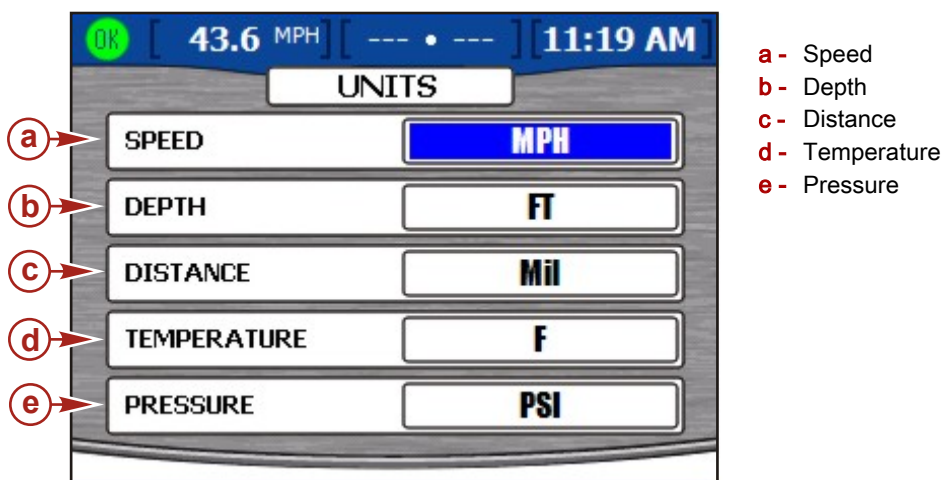
27317
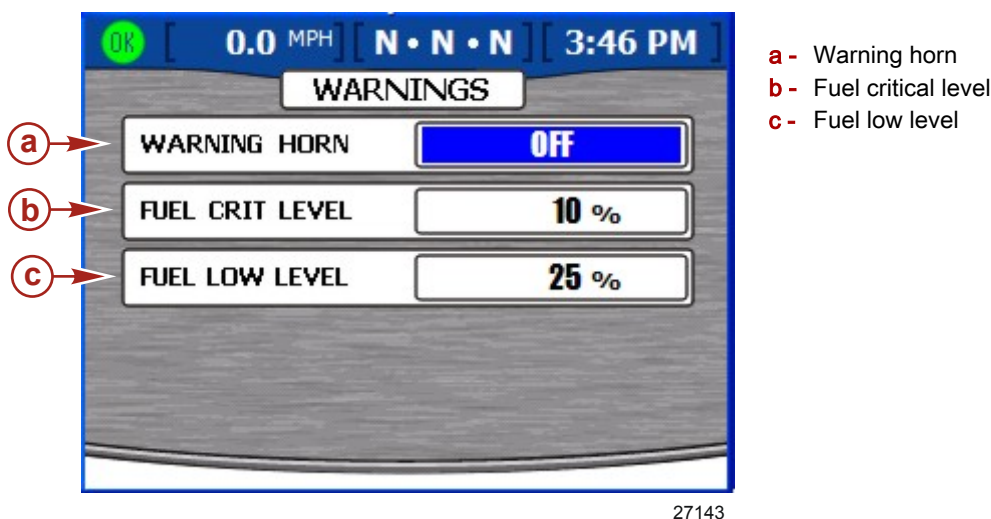
1. Upon entering the "UNITS" screen, the "SPEED" option will be highlighted in blue.
2. Press the left or right arrow on the arrow pad to select speed units of "MPH," "KMH," or "Knots."
3. Press the down arrow on the arrow pad to proceed to the "DEPTH" option.
4. Press the left or right arrow on the arrow pad to select depth units of "FT," "FTM," or "Met."
5. Press the down arrow on the arrow pad to proceed to the "DISTANCE" option.
6. Press the left or right arrow on the arrow pad to select distance units of "Mil," "KM," or "NM."
7. Press the down arrow on the arrow pad to proceed to the "TEMPERATURE" option.
8. Press the left or right arrow on the arrow pad to select temperature units of "F" or "C."
9. Press the down arrow on the arrow pad to proceed to the "PRESSURE" option.
10. Press the left or right arrow on the arrow pad to select pressure units of "PSI," "BAR," or "KPA."
11. Once you have finished selecting your units of measure, press the check button to save the session.

NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings***.*

Units 2

The "Units 2" menu option is a continuation of the "UNITS" screen. "Units 2" enables you to set units of measure for volume and fuel flow. The menu path is: "Main" > "Settings" > "Units 2." Press the check button to open the "UNITS" screen.

a - Volume
b - Fuel Flow

27319

1. Upon entering the "UNITS" screen, the "VOLUME" option will be highlighted in blue.
2. Press the left or right arrow on the arrow pad to select volume units of "GAL," "LIT," or "IGL."
3. Press the down arrow on the arrow pad to proceed to the "FUEL FLOW" option.
4. Press the left or right arrow on the arrow pad to select fuel flow units of "GPH," "LPH," "MPG," "KPL," or "NMPG."
5. Once you have finished selecting your units of measure, press the check button to save the session.

NOTE: *After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to* **Section 1 - Saving the Settings***.*

Offsets

The "OFFSETS" screen enables you to change the offsets in order to compensate for inaccuracies in depth, fuel, sea temperature and steering position. The menu path is: "Main" > "Settings" > "Offsets." Press the check button to open the "OFFSETS" screen.

a - Depth offset
b - Fuel offset
c - Sea temp offset
d - Steering offset
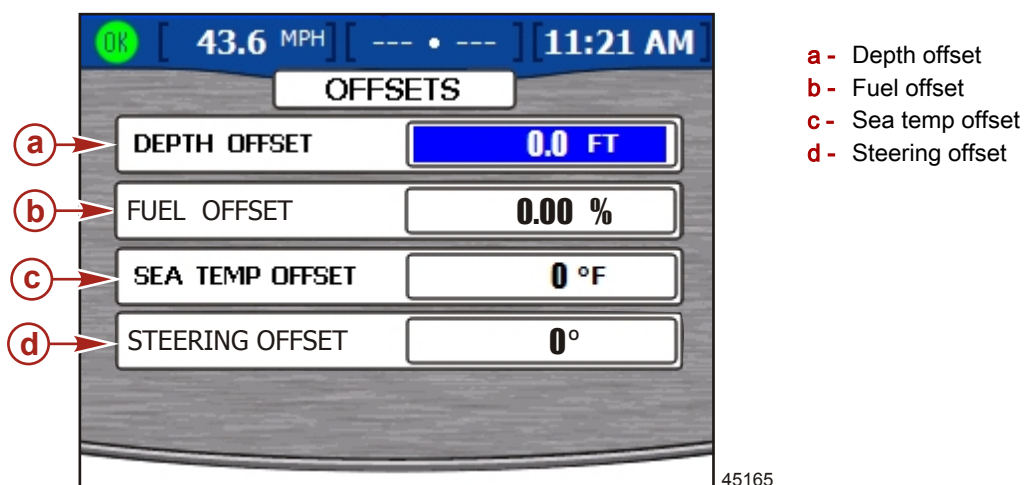
1. Upon entering the "OFFSETS" screen, the "DEPTH OFFSET" option will be highlighted in blue.
2. The depth offset default setting is 0.0 ft. Press the left or right arrow on the arrow pad to add or subtract depth offset. To set an offset below the transducer, subtract from the depth offset. To set an 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
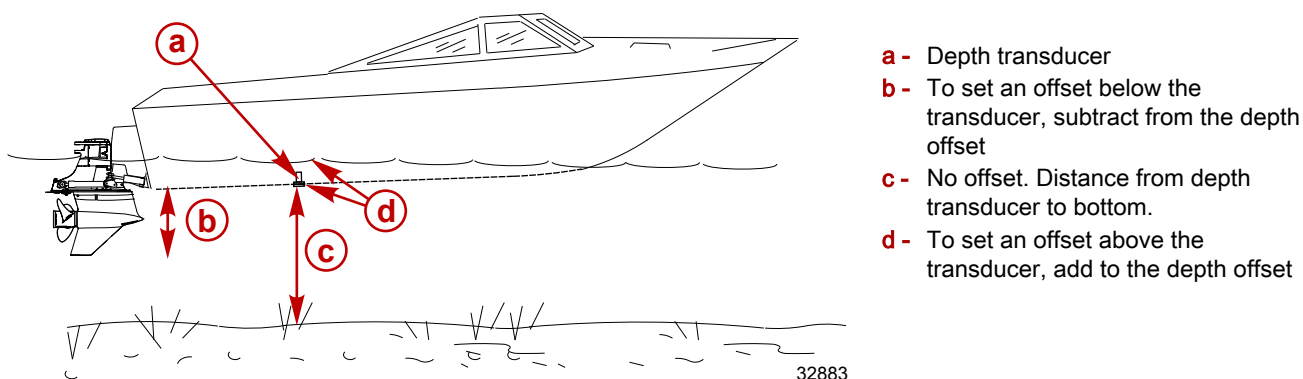
3. Press the down arrow on the arrow pad to proceed to the "FUEL OFFSET" option.
4. The fuel offset default setting is 0.00%. Press the left or right arrow on the arrow pad to add or subtract fuel offset. If the fuel tank does not read "0" when empty, add fuel offset until it equals the incorrect amount shown remaining in the tank. This should change the fuel level screen so it reads "0."

   NOTE: The fuel offset can only be a positive offset.
5. Press the down arrow on the arrow pad to proceed to the "SEA TEMP OFFSET" option.
6. The sea temperature default setting is 0 degrees. Take the actual seawater temperature and subtract the displayed sea temperature. Then add or subtract the difference in temperature in the "SEA TEMP OFFSET" option using the left or right arrow on the arrow pad.
7. Press the down arrow on the arrow pad to proceed to the "STEERING OFFSET" option.
8. Use the left or right arrow button to adjust the steering position in either direction.
9. After making changes to the offsets, press the check button to save the session.

NOTE: After any change or customization to the VesselView configuration, a blue pop-up message will appear as a reminder to save the session. It is recommended that all session changes be saved before holding the "X" button while keying all engines off. Refer to **Section 1 - Saving the Settings**.

Alarms

Alarms Menu Options

The "Alarms" menu enables you to view the active alarms, active alarm details, view and manage the alarm history, and view alarm history details. The "Alarms" menu items include the following:
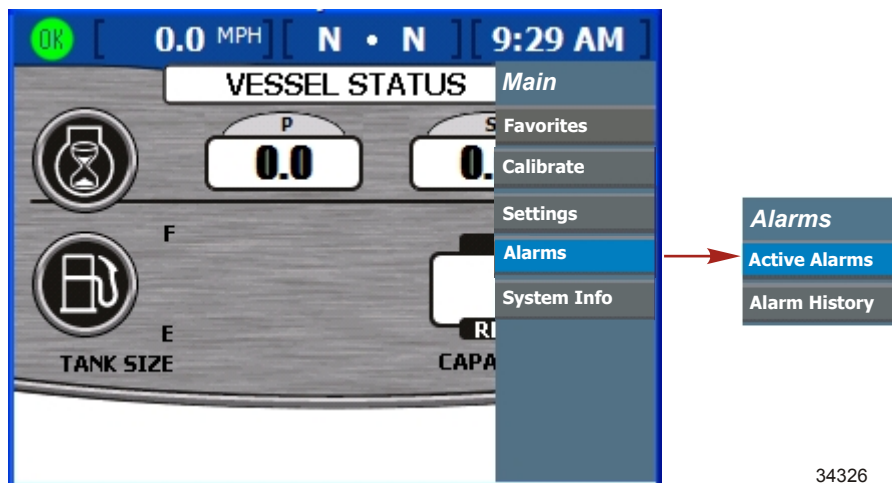
34326

VesselView Warning Horn Strategy

VesselView is equipped with a warning horn on its harness. This horn will sound alarms for critical tank level and low water depth. The engine fault warnings will be visible on the VesselView screens, but the horns will be generated at the engine key switch harness. If you prefer to have warning horns from both sources, go to the "WARNINGS" screen of the "Settings" menu and turn the horn on. The horn is turned off by default. The menu path is: "Main" > "Settings" > "Warnings."

All engine alarms will be heard through the engine key switch harness horn regardless of the VesselView warning horn setting. If the horn is turned on in the "WARNINGS" screen, the engine alarms will also be heard through the VesselView horn. The VesselView horn will sound a solid tone for all faults and the engine warning horn will sound its specific warning tone. Check the engine operations manual for possible warning horns for your engine.

NOTE: The warning horn strategy of the VesselView may not be the same horn strategy as the engine.

If the warning horn is turned on in the "Warnings" menu and you are experiencing a VesselView alarm, press the "**X**" button, or check button, to acknowledge the fault and turn off the audible alarm.

The low water depth alarm is set in the "DEPTH" screen of the "Environment and Navigation" menu. This menu enables you to turn the horn on or off. Low water depth alarms will be audible even if the warning horn is turned off in the "WARNINGS" screen.

The low fuel tank level alarm cannot be turned off. The fuel tank level at which the alarm will sound can be adjusted down to 10% in the "WARNINGS" screen. The menu path is: "Main" > "Settings" > "Warnings."

Active Alarms

The fault or warning will appear in the status bar. VesselView alerts the operator of any faults or warnings with an icon on the left side of the status bar. A description of the fault or warning will appear over the other status bar options. If all systems are operating normally, a green icon with the word "OK" inside will be displayed.
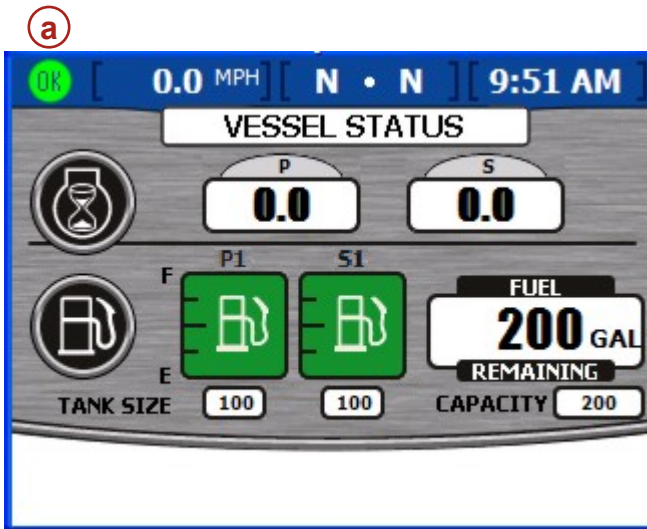
a - Fault status icon

27171

Fault Icons

Icon or Message	Icon Description	Warning Description
26889	Blue "OK" inside a green circle.	All systems are operating normally.
34278	A blue background with a white speedometer and a white arrow.	Cruise control is engaged.
26890	Yellow "!" on a black background in a yellow triangle.	Warning - A fault has occurred.
26891	White "!" inside a red triangle.	Alarm - A fault has occurred and has activated Engine Guardian.
26892	Black fuel pump on a yellow background inside a black circle.	Fuel Level Low (The warning pop-up will appear to acknowledge the critical fuel level. The warning pop-up can be turned off, but the status bar icon and message will always appear.)
26893	White fuel pump on a red background inside a black circle.	Fuel Level Critical (A warning horn will begin and the warning pop-up will appear to acknowledge the critical fuel level. The audible alarm and the warning pop-up can both be turned off, but the status bar icon and message will always appear.)

The second warning is when the "ACTIVE ALARMS" pop-up window appears. This screen displays all active alarms and warnings. The "ACTIVE ALARMS" pop-up window is defaulted to be off. The pop-up can be turned on or off within the "PREFERENCES" screen. The menu path is: "Main" > "Settings" > "Preferences."

If more than one fault has occurred, the faults will appear in the sequence they occurred.

a - Engine identification
b - Arrow cursor
c - Fault short text
d - Fault icon
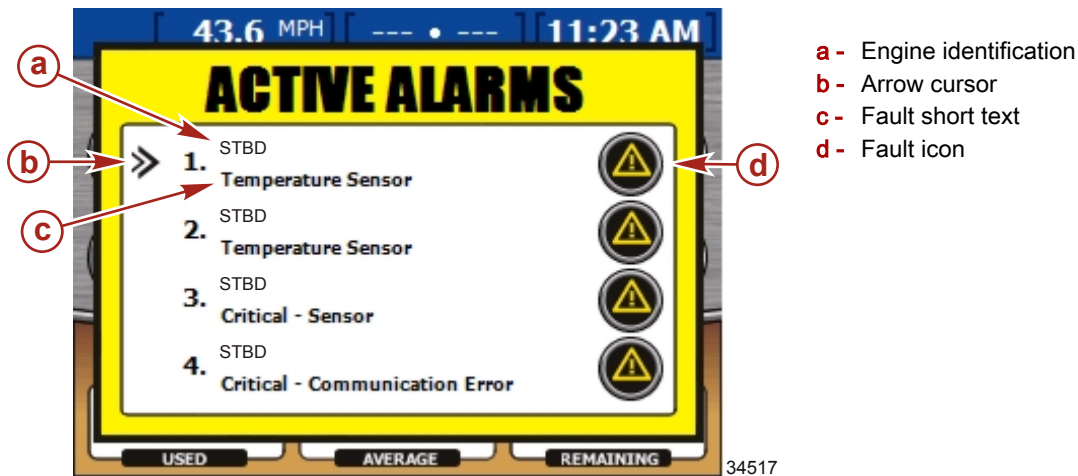
Viewing Active Alarms

You can review active alarm information in two ways:

1. By pressing the brightness/alarm button to see the "ACTIVE ALARMS" screen. The "ACTIVE ALARMS" pop-up window will only appear if an alarm is activated.

2. By accessing the "ACTIVE ALARMS" screen with use of the menu. The menu path is: "Main" > "Alarms." Using this method enables you to view further details about the alarms and alarm history.

   • Press the check button to open the "ACTIVE ALARMS" screen.

a - Engine identification
b - Arrow cursor
c - Fault short text
d - Fault icon
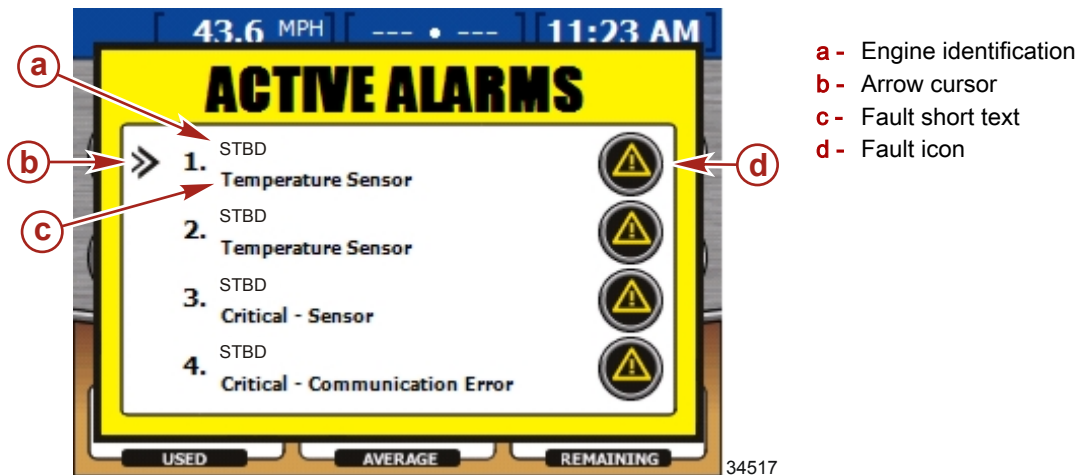
The "ACTIVE ALARMS" screen will display alarms for up to four engines. All alarms will be listed and numbered. Each numbered alarm will list which engine is activating the fault. Each fault will be identified as "STBD," "PORT," "STBDCNTR," or "PORTCNTR" depending on the number of engines. Follow the chart listed to identify the fault with the correct engine.

	Single Engine	Dual Engines	Triple Engines	Quad Engines
"STBD"	Starboard	Starboard	Starboard	Starboard
"PORT"	N/A	Port	Port	Port
"CENTER"	N/A	N/A	Center	N/A
"STBDCNTR"	N/A	N/A	N/A	Starboard center
"PORTCNTR"	N/A	N/A	N/A	Port center

Below the engine identification there will be short text to describe the fault. Details of the fault can be viewed in the "ALARM DETAILS" screen.

Viewing Alarm Details

1. To the left of the first alarm listed in the "ALARM DETAILS" screen there will be an arrow cursor. Press the up or down arrow on the arrow pad to highlight an alarm.

2. Press the check button to view the respective alarm history in the "ALARM DETAILS" screen.

a - Fault short text
b - Fault long text
c - Action text

27321
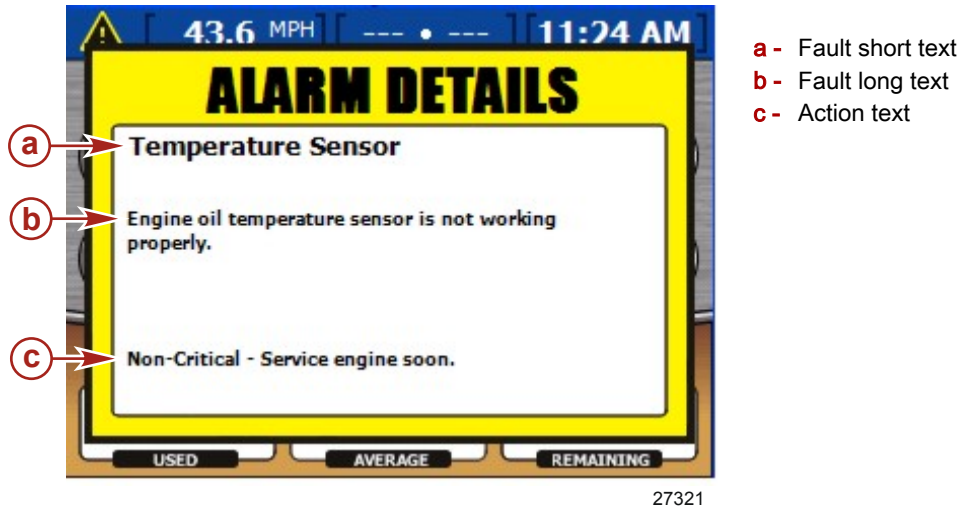
The "ALARM DETAILS" screen will list the details of the alarm.

• The short text defining the alarm will be listed at the top of the screen.

• The long text, listed below the short text, further clarifies the alarm.

• The action text, listed at the bottom of the screen, instructs the operator on how to handle the alarm.

Refer to your vessel engine manual for a complete list of faults.

Alarm History

The "ALARM HISTORY" screen will display alarm history for up to four engines. The menu path is: "Main" > "Alarms" > "Alarm History." Press the check button to open the "ALARM HISTORY" screen.

All faults and alarms will be listed and numbered. Each numbered fault will list which engine activated the alarm. Each alarm will be identified as "STBD," "PORT," "STBDCNTR," or "PORTCNTR" depending on the number of engines. For a chart to identify each engine, refer to **Viewing Active Alarms.**

Below the engine identification there will be short text to describe the fault. Details of the fault can be viewed in the "ALARM HISTORY DETAILS" screen.

a - Engine identification
b - Arrow cursor
c - Fault short text
d - Fault icon

36850
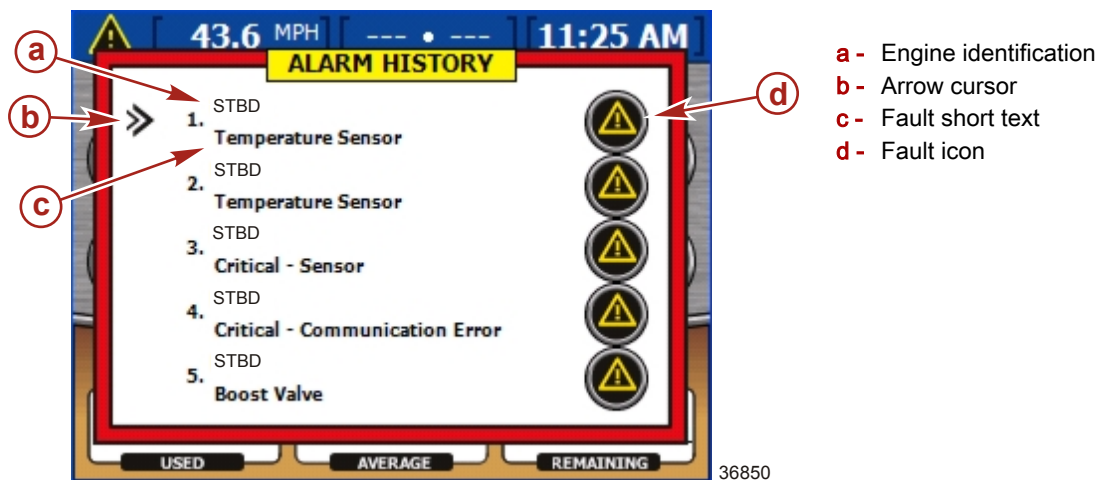
Alarm History Details

1. Upon entering the "ALARM HISTORY" screen, the first alarm listed will have an arrow cursor to the left of the alarm description. Press the up or down arrow on the arrow pad to position the arrow cursor in front of an alarm description.

2. To view more detail about the alarm, press the check button to view the specific alarm history in the "ALARM HISTORY DETAILS" screen.

a - Fault short text
b - Fault long text
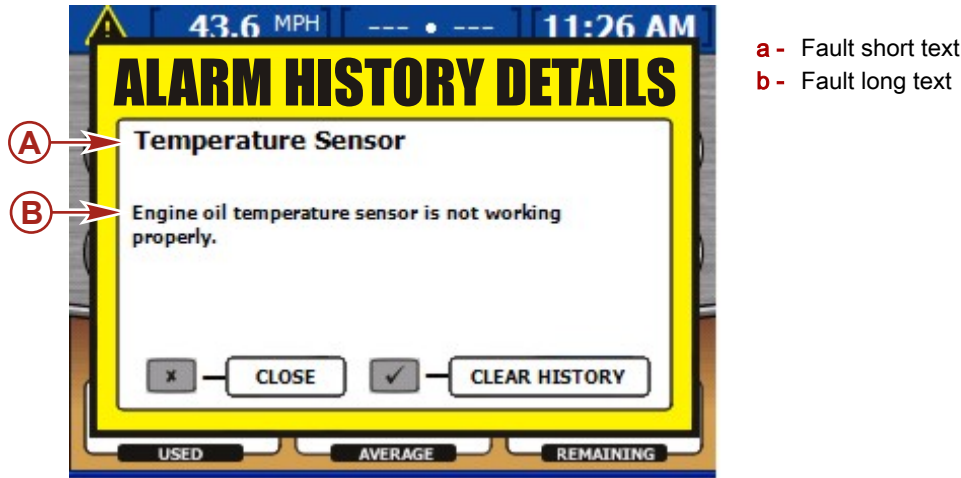
27324

The "ALARM HISTORY DETAILS" screen will list the details of the alarm.

• The short text defining the alarm will be listed at the top of the screen.

• The long text, listed below the short text, instructs the operator on how to handle the alarm.

Clearing Alarm History

At the bottom of the "ALARM HISTORY DETAILS" screen you can choose to "CLOSE" the window or "CLEAR HISTORY."

1. Press the "**X**" button to close the screen or the check button to clear the alarm history.

   IMPORTANT: Clearing the alarm history will erase all historic alarms shown in the "ALARM HISTORY" screen. Active alarms will not be affected.

   NOTE: Pressing the "X" button while turning the engine key switch "OFF," a master reset, or a loss of power to the VesselView, will erase all historic alarms.

2. After pressing the check button to clear the history, a pop-up window will appear asking you to confirm your selection. Press the "**X**" button to "CANCEL" or the check button to "CONFIRM."
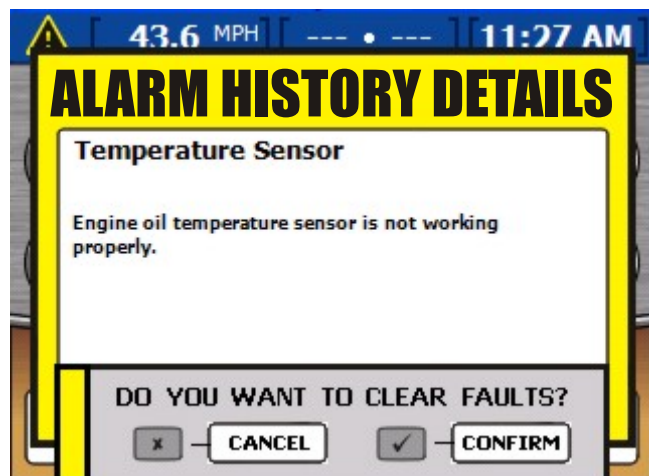
27325

3. To exit the alarm screens, press the "**X**" button.

System Information

System Information Menu Options

The "System Info" menu enables you to identify your VesselView software version and hardware serial number. The "System Info" menu items include the following:

34329
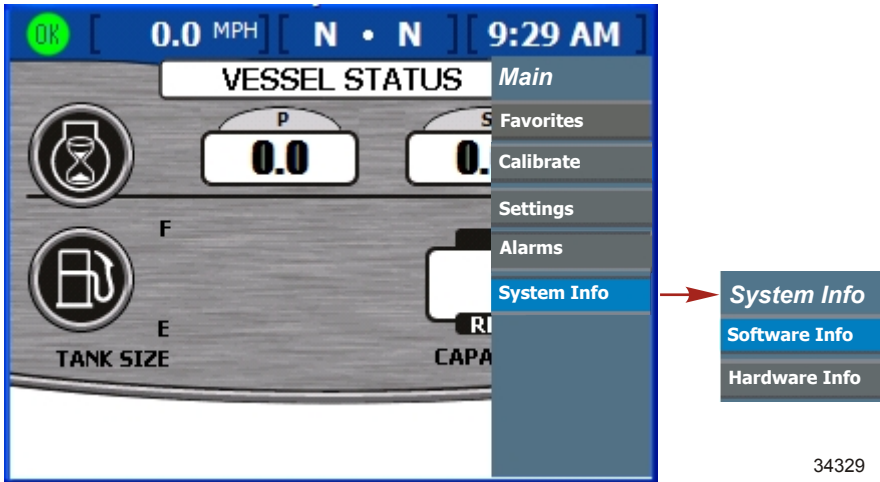
Software Information

The "SOFTWARE INFORMATION" screen provides the VesselView software version and operating system information. The menu path is: "Main" > "System Info" > "Software Info." Press the check button to open the "SOFTWARE INFORMATION" screen.

37090
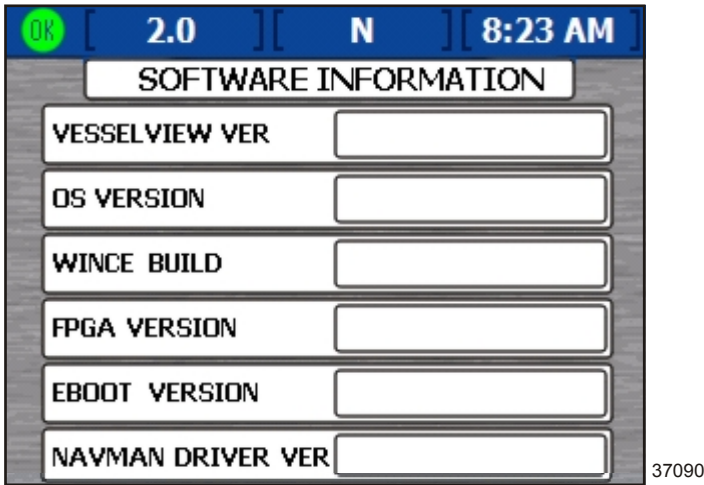
Hardware Information

The "HARDWARE INFORMATION" screen provides the VesselView hardware build, serial numbers, and the necessary information protocol (IP) addresses in order to establish connectivity to other VesselView units. The menu path is: "Main" > "System Info" > "Hardware Info." Press the check button to open the "HARDWARE INFORMATION" screen.

37091

Notes:

Section 5 - Propulsion Menu

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5

Using Propulsion Screens

Available Propulsion Screens

IMPORTANT: The available VesselView menu items and options are dependent on the engine type, and if screens have been manually turned on or off.

The propulsion screens display information about boat propulsion systems such as fuel, speed, and trim. Screens available from the propulsion menu vary according to the engine type, but may include the following:

- Engine Status
- Performance and Fuel
- Peak Performance
- Trim
- Tabs
- Boost
- Steering
- Troll
- Cruise Control
- Smart Tow
- Demand and Load
- Transmission
- Intake

Viewing Engine Status

The engine status screen shows basic operating information for up to three engines. The information displayed differs for each engine type.

a - Port engine RPM
b - Starboard engine RPM
c - Engine temperature
d - Oil pressure
e - Battery voltage
f - Water pressure
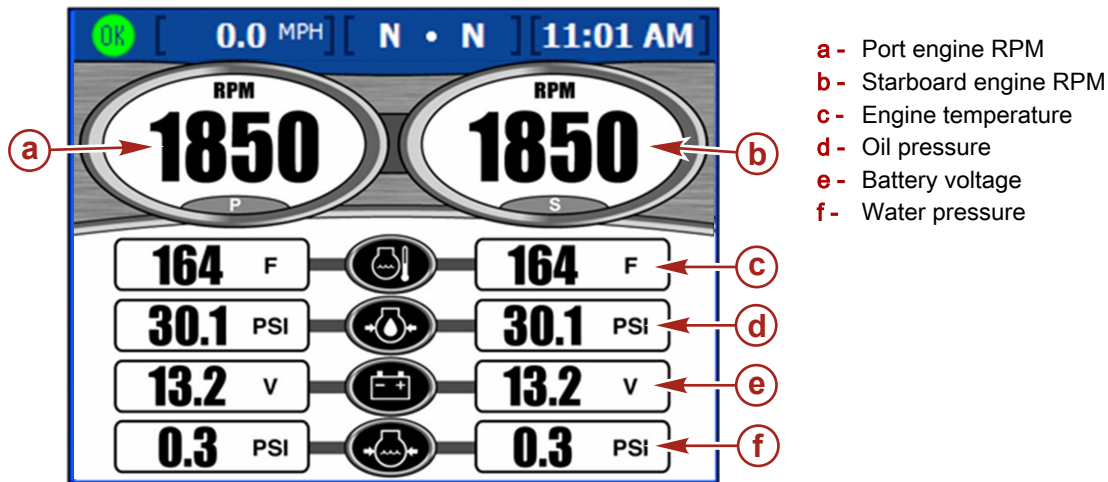
26883

- RPM is displayed for up to three gas or diesel engines.
- Speed is displayed using pitot, paddle, or GPS sensor information.
- Diesel engines will display fuel flow instead of water pressure.
- Estimated range is determined using the total fuel flow for all engines and the current rate at which the engines are consuming fuel.
- Total fuel used is the amount of fuel used from all fuel tanks and engines combined.

Viewing Performance and Fuel

The performance and fuel screen shows basic operating information for up to four engines. The fourth engine allows for an additional fuel tank display.
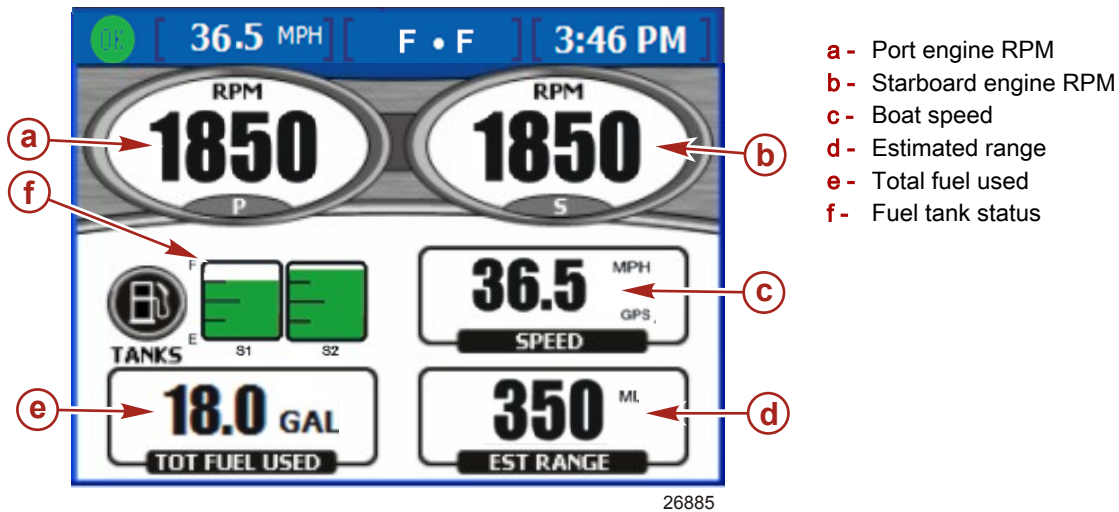
26885

a - Port engine RPM
b - Starboard engine RPM
c - Boat speed
d - Estimated range
e - Total fuel used
f - Fuel tank status

- RPM is displayed for up to three gas or diesel engines.
- Speed is displayed using pitot, paddle, or GPS sensor information.
- Estimated range is determined using the total fuel flow for all engines and the current rate at which the engines are consuming fuel.
- Total fuel used is the amount of fuel used from all fuel tanks and engines combined.
- The fuel tank status icons display the amount and type of fuel in each tank, as well as the location of each tank.
- The fuel tank color will change from green to red if the tank is below the critical level. Refer to **Section 4 - Warnings** for critical fuel level adjustment.

Resetting Total Fuel Used

1. Press the check button while on this screen to access the "Total Fuel Used" pop-up screen. The pop-up will ask you "Would you like to Reset your Fuel Used?"

27265
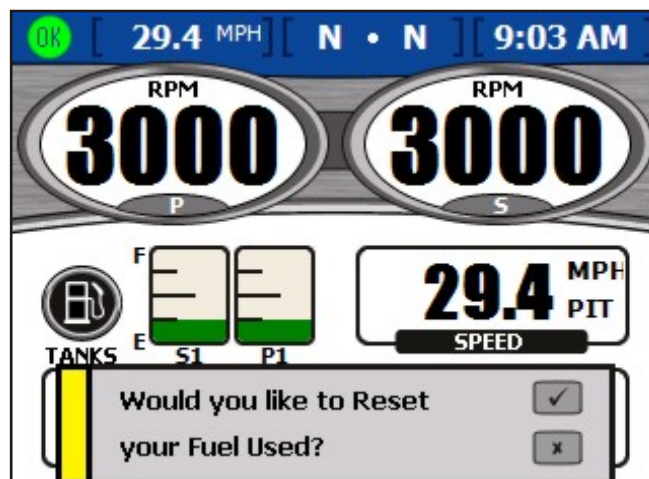
Fuel used pop-up screen

2. Press the check button to reset the total fuel used or the "**X**" button to cancel.

Viewing Peak Performance

The peak performance screen shows current speed and RPM, as well as the highest speed and associated engine RPM recorded since the last reset.

a - Actual engine RPM
b - Actual boat speed
c - Peak engine RPM
d - Peak boat speed
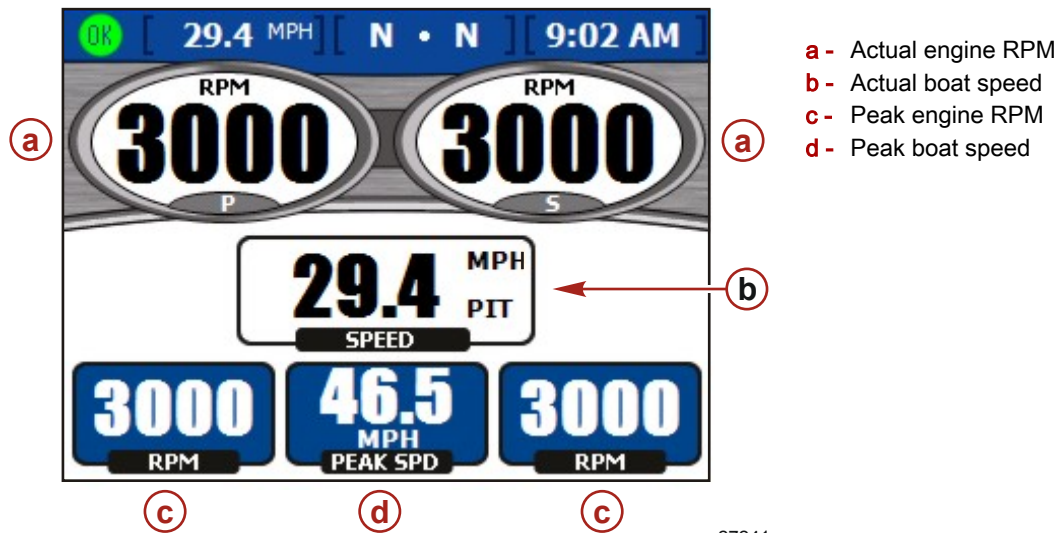
27241

- RPM is displayed for up to three gas or diesel engines.
- Speed is displayed using pitot, paddle, or GPS sensor information.
- Peak speed is the highest speed recorded since the last reset of peak values.
- Peak engine RPM is the engine RPM associated with the highest speed since the last reset of peak values.

Resetting Peak Values

1. Press the check button while on this screen to access the "peak values" pop-up screen. The pop-up will ask you "Would you like to Reset your Peak Values?"
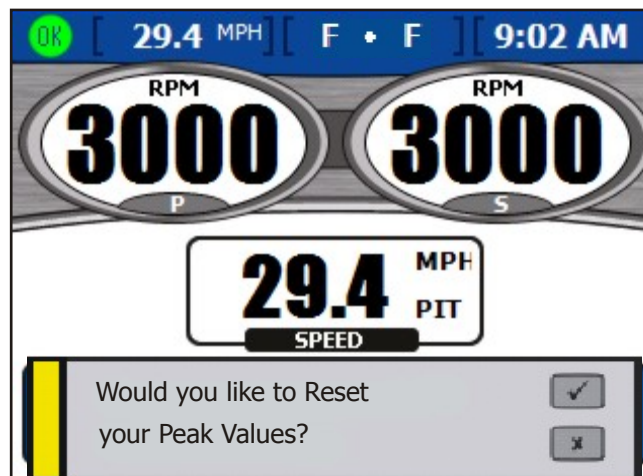
27243

Peak values pop-up screen

2. Press the check button to reset the peak values or the "**X**" button to cancel.

Viewing Steering Position (MerCruiser Only)

The "STEERING POSITION" screen displays the current steering position in degrees. The default steering position can be adjusted 60 degrees in either direction by changing the offset. The data options on the bottom of the screen can be changed to display different data. Refer to **Section 4 - Settings** for more information.

NOTE: *Zeus and Axius drive applications show the steering angle needle from the drive with the most angle.*

a - RPM
b - Depth
c - Vessel speed
d - Steering angle

45176

NOTE: *To invert the steering position, use the "INVERT STEERING" option on the "Preferences" screen in the "Settings" menu.*

• The steering position is displayed in degrees.
• Water depth and boat speed are displayed below the steering position by default. You can choose to display boat speed, wind speed. wind direction, water depth, gear position, speed over ground ("SOG"), bearing to waypoint ("BTW"). Environment variables are only available for display on vessels equipped with these SmartCraft sensors.

Viewing Trim Position

The trim screen shows current and peak operating information.

a - Engine RPM
b - Current trim level
c - Speed (GPS)
d - Fuel flow rate

26937
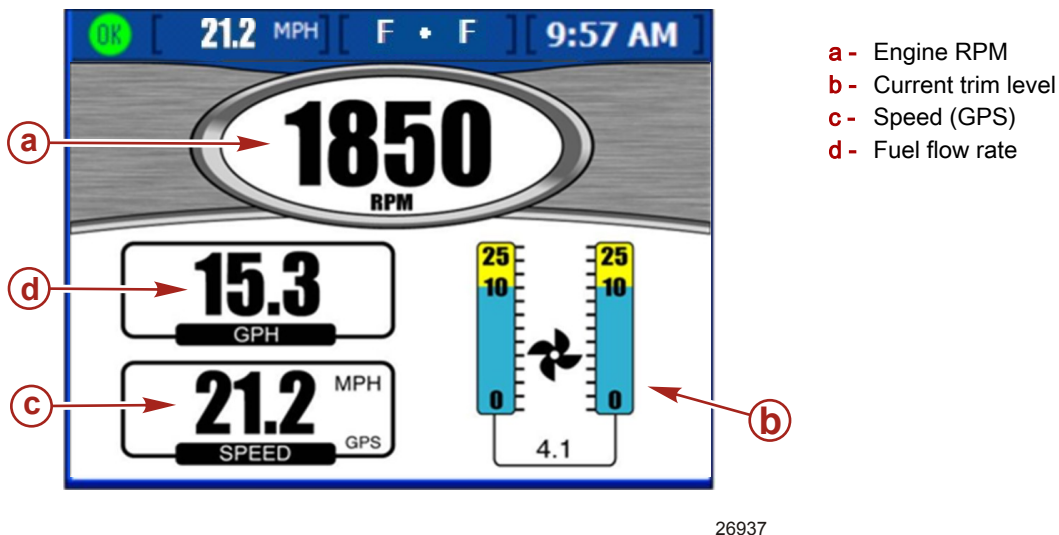
• RPM is displayed for up to three gas engines or two diesel engines.
• The trim level is 0 when trimmed all the way down, 10 when trimmed to maximum safe operating position, and 25 when in the trailer position. The propeller icon will move according to the position of the trim position.

Viewing Tab Position (Diesel Only)

The tab screen displays the engines RPM, fuel consumption per hour, speed, and the position of the tabs.

a - Engine RPM
b - Fuel flow rate
c - Speed
d - Current tab position

34330
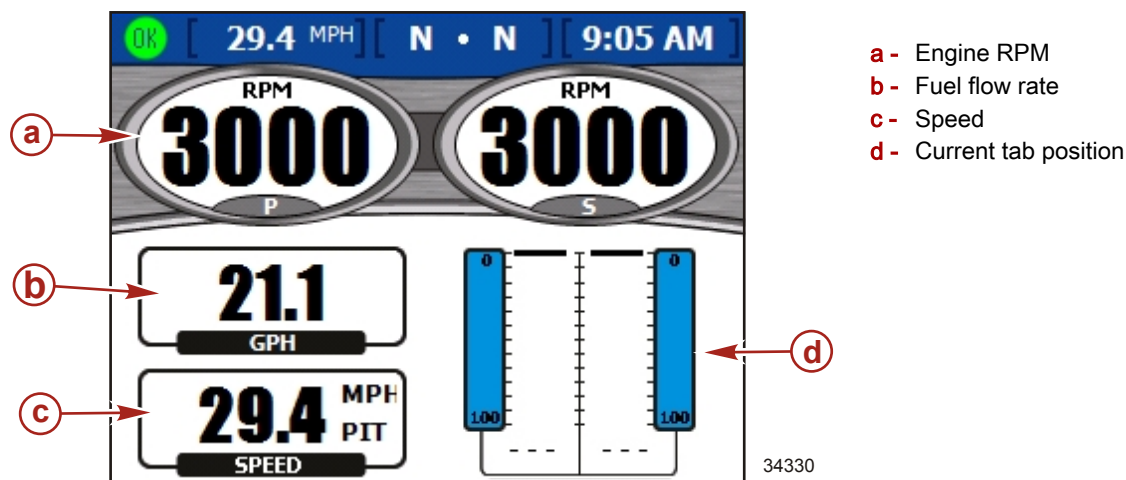
- RPM is displayed for up to three gas engines or two diesel engines.
- The tab position is 0 when trimmed all the way up, and 100 when trimmed all the way down.

Viewing Boost Pressure (Optional)

The "BOOST" screen displays boost pressure and engine RPM.
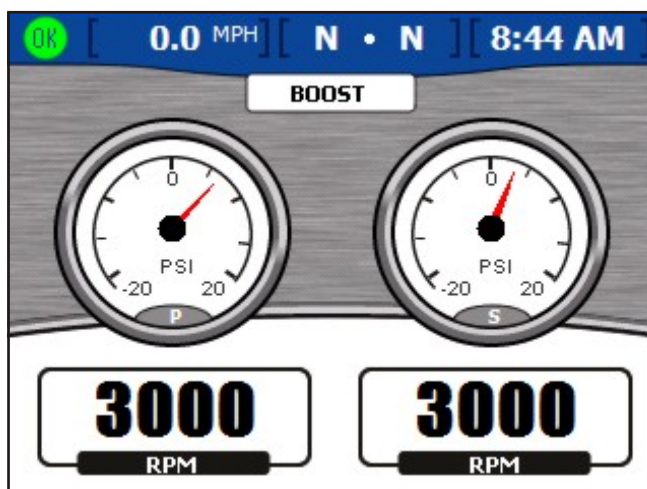
27247

- RPM and boost is displayed for up to three gas engines or two diesel engines.
- On a single engine display, speed is displayed using pitot, paddle, or GPS sensor information.

Using Troll Control

The "TROLL CONTROL" screen allows you to maintain trolling speed without using the throttle. Minimum and maximum trolling speeds depend on your engine type. Troll control is automatically cancelled if you move the throttle or shift into neutral gear. To use troll control, the engine must be in gear and at idle.
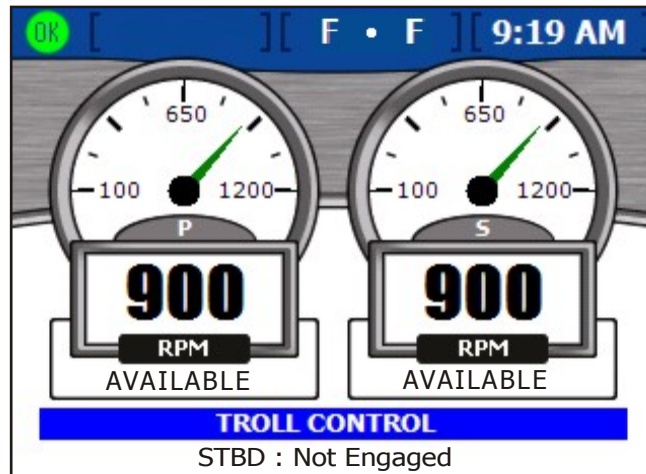
27741

Setting Troll Control

IMPORTANT: Do not leave the helm while using troll control.

1. The engines must be running and in gear to activate troll control. The screen will show the engine as "NOT READY" in a red box below the engine RPM if an engine is not in gear and running.
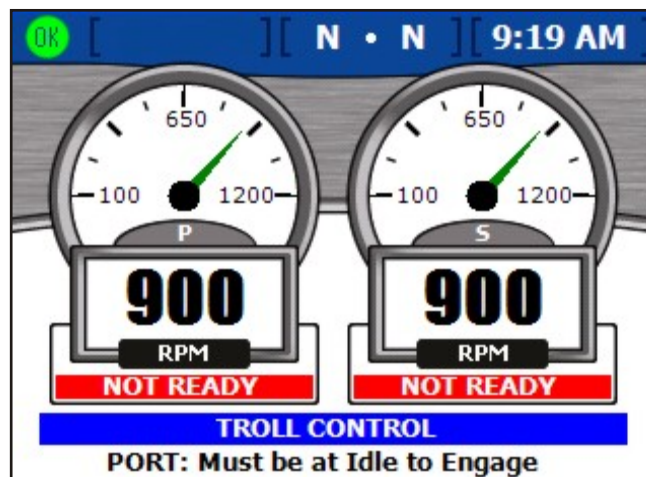
27739

2. With the engine running at idle, shift into forward or reverse gear. The display screen below RPM will change to "AVAILABLE." This lets the operator know the troll control feature is now available.

3. Press the check button to edit the troll control speed.

4. For multiple engines, use the up and down arrow buttons to select which engines to control.

5. To activate the troll control, press the left or right arrow button and the engine will troll at the displayed speed. The display screen below RPM will change from "AVAILABLE" to "TROLLING."
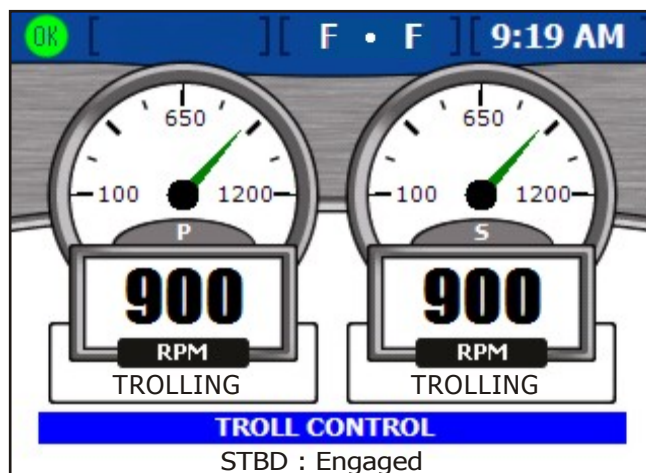
27743

6. Use the left and right arrow buttons to adjust speed up or down.

Viewing Demand and Load (Diesel only)

The demand and load screen shows current percentage of load and throttle for up to two diesel engine applications.

a - Port engine RPM
b - Starboard engine RPM
c - Percentage of load
d - Percentage of throttle
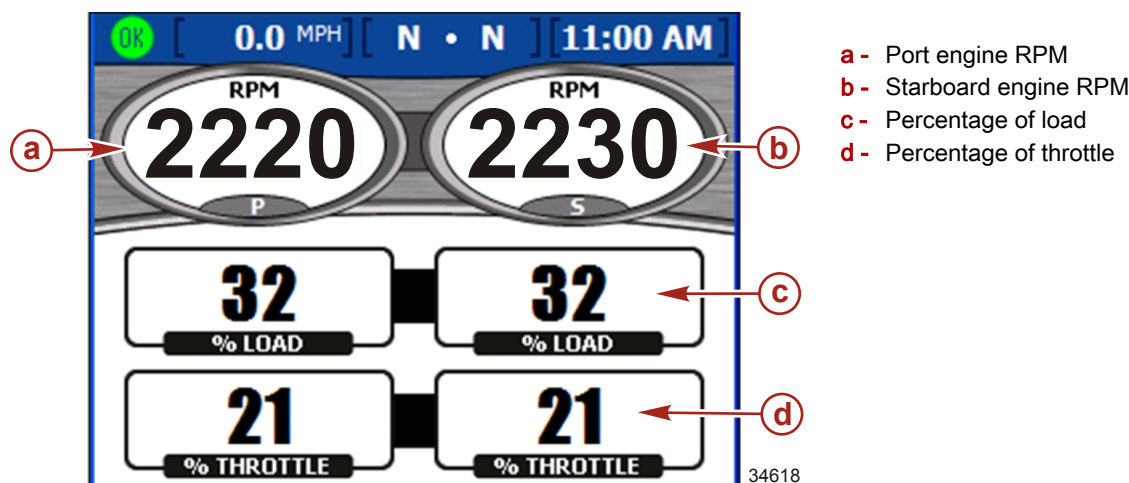
34618

Viewing Transmission Data (Diesel only)

The transmission screen shows gear temperature and gear pressure for up to two diesel engine applications.

a - Port engine RPM
b - Starboard engine RPM
c - Gear temperature
d - Gear pressure
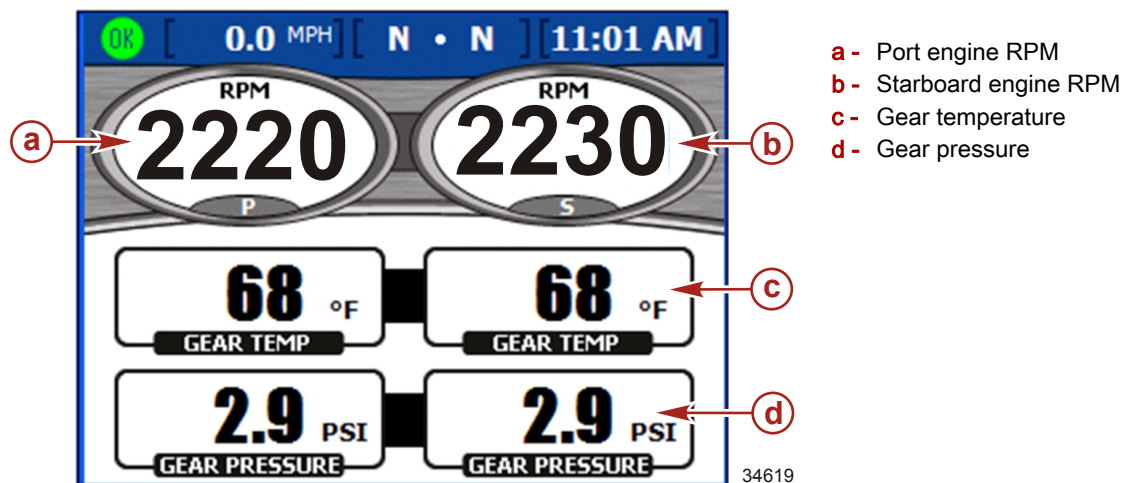
34619

- Gear temperature is displayed in degrees fahrenheit by default.
- Gear pressure is displayed in PSI by default.

Viewing Intake Data (Diesel only)

The intake screen displays intake temperature and supercharger boost for up to two diesel engine applications.

a - Port engine RPM
b - Starboard engine RPM
c - Intake temperature
d - Boost
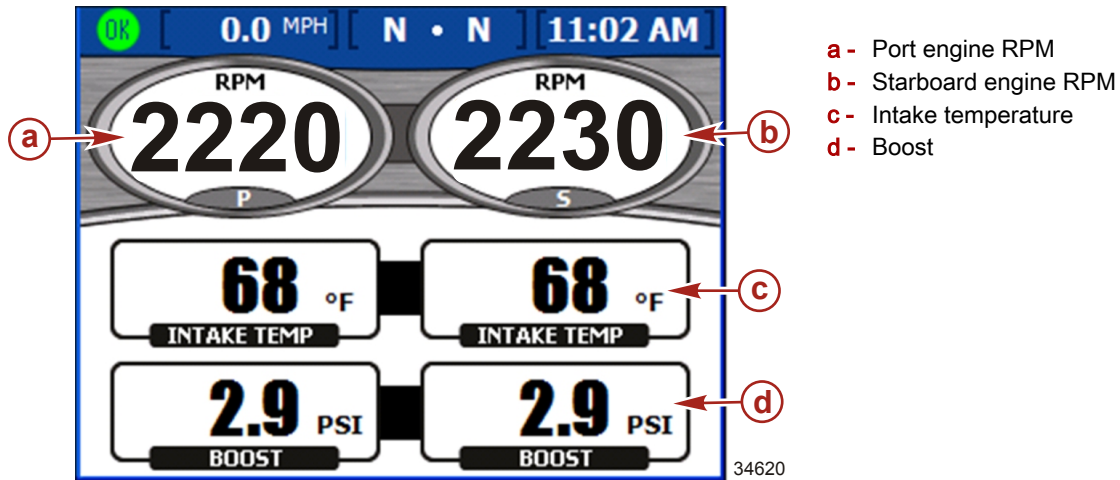
Using Cruise Control

The "CRUISE CONTROL" screen allows you to set an engine RPM level for each engine to maintain while the cruise control is engaged. Cruise control is not available on all vessels.

a - Engine RPM
b - Boat speed
c - RPM set point
d - Cruise control status
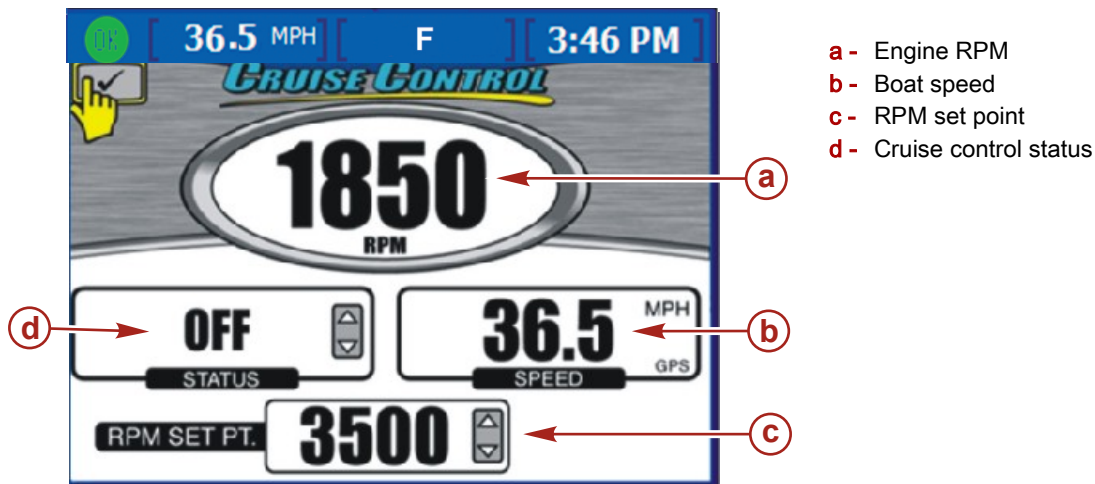
- RPM is displayed for up to three engines.
- Speed is displayed using pitot, paddle, or GPS sensor information.
- The maximum RPM set point is the maximum engine RPM at wide-open throttle (WOT). When cruise control is engaged, the engine will not accelerate past this RPM level.
- Cruise control status displays whether cruise control is "ENABLED" or "OFF."

Setting the Cruise Control

NOTE: If the VesselView is equipped with Smart Tow and it is enabled, you will not have the "CRUISE CONTROL" menu.

IMPORTANT: Do not leave the helm while using cruise control.

1. From the "CRUISE CONTROL" screen, press the check button to activate cruise control.
2. Press the check button to activate the RPM set point box.
3. Use the left and right arrow buttons to set the target RPM.
4. Press the up arrow to activate the status box.
5. Press the left or right arrow button to set the status to "Enabled."

6. Press the check button to exit the edit mode.
7. Move the remote control handle to the WOT position to reach the RPM set point.

NOTE: *While cruise control is enabled, adjust the RPM set point using the arrow pad; or by pressing the check button to activate the RPM set point box and adjusting the RPM set point with the left and right arrow buttons.*

Using Smart Tow

The "SMART TOW" screen allows you to automatically accelerate using a preset launch profile, and to set a maximum cruising RPM for consistent tow sport performance. Five automatic launch profiles are available. Smart Tow is not available on all vessels.

a - RPM set point
b - Boat speed
c - Smart Tow status box
d - Engine RPM
e - Launch profile
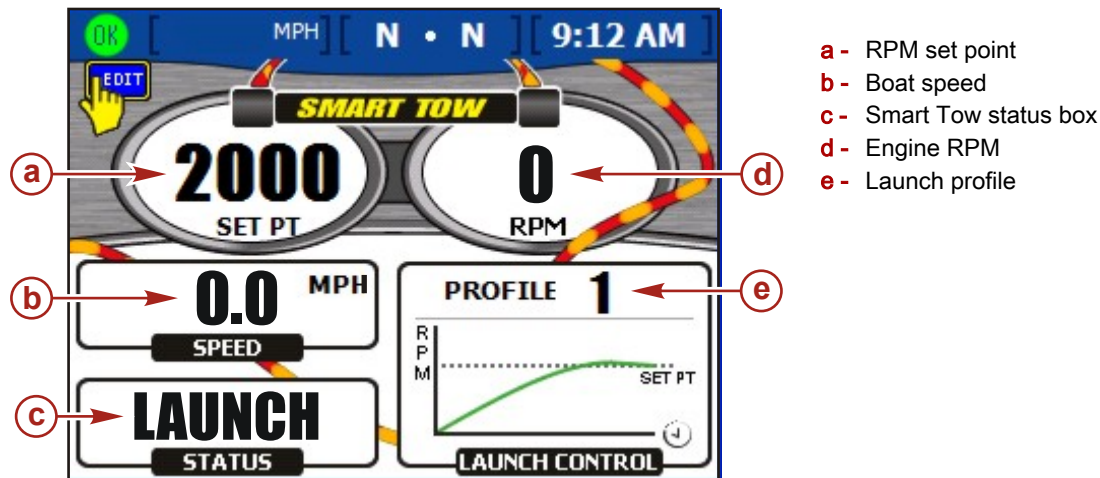
27258

- The RPM set point is the target engine RPM when using Smart Tow for cruise control. The RPM set point also controls the target cruising engine RPM after launch.
  IMPORTANT: Changing the RPM set point does not affect the current launch profile selected.
- RPM "LAUNCH CONTROL" displays which profile is selected and the acceleration over time for that launch profile.
- Status displays whether launch control is enabled or off.
- Speed is displayed using pitot, paddle, or GPS sensor information.

Setting Cruise with Smart Tow

1. From the "SMART TOW" screen, press the check button to activate the RPM set point box.
2. Use the left and right arrow buttons to set a maximum RPM.
3. Press the down arrow to activate the Smart Tow status box.
4. To activate the cruise control, press the left or right arrow button to set the status to "ENABLED."
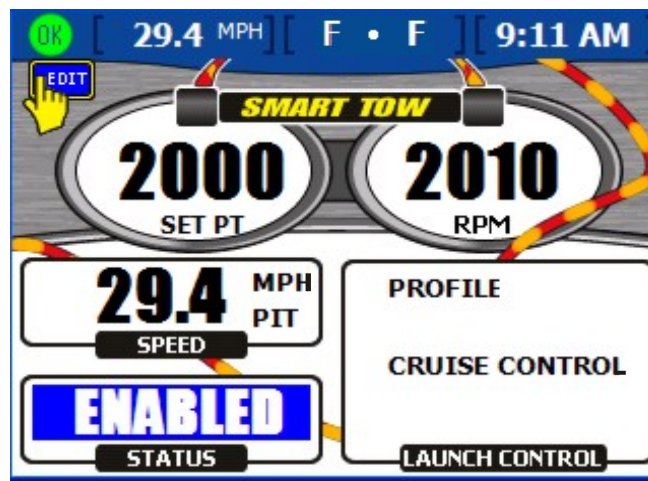
27744

Smart Tow cruise control screen

5. Press the check button to exit the edit mode.

6.   Move the remote control handle to the WOT position to reach the RPM set point.

Setting Smart Tow Launch Control

IMPORTANT: Do not leave the helm while using Smart Tow launch control.

1.   From the "SMART TOW" screen, press the check button to activate the RPM set point box.

2.   Use the left and right arrow buttons to set a maximum RPM.

3.   Press the down arrow to activate the Smart Tow status box.

4.   Press the left or right arrow button to set the status from "ENABLED" to "LAUNCH."

5.   Press the down arrow to activate the "LAUNCH CONTROL" box.

6.   Press the left or right arrow button to select the launch profile best suited to your towing application. Five profiles are available ranging from the least aggressive acceleration (Profile 1) to the most aggressive acceleration (Profile 5).
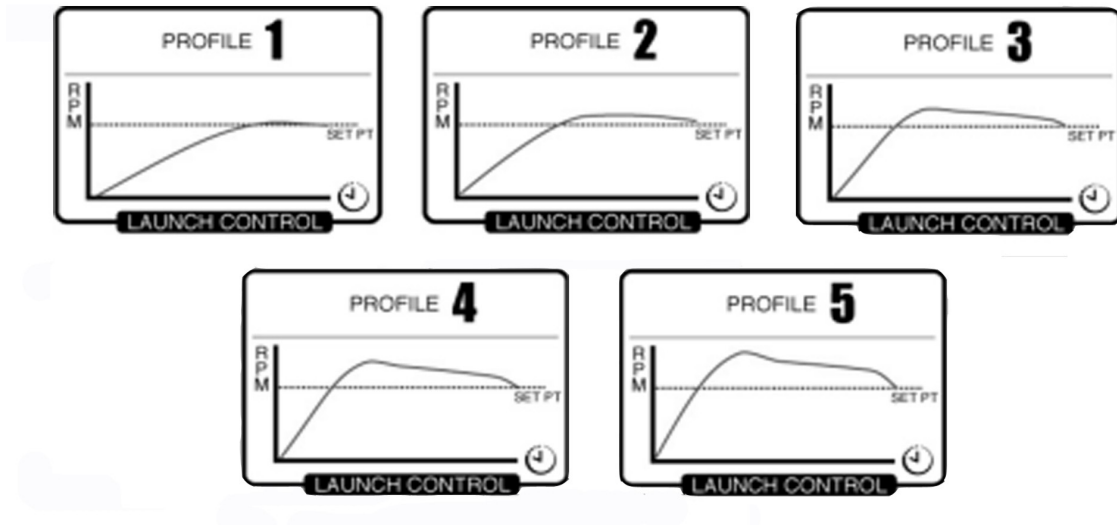
27255

Launch profiles

7.   Press the check button to exit the edit mode.

8.   Move the throttle to WOT to begin the launch. The "STATUS" box displays "ACTIVE" while the launch is in progress.

Notes:

Section 6 - Vessel Menu

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6

Using Vessel Screens

IMPORTANT: The available screens listed in the VesselView menu of each category is determined by the vessel setup, engine type, if screens have been manually turned on or off, and other components connected to the communication network. For example: VesselView will not show tab information for a vessel without tabs. Different engine types (sterndrive versus an outboard) will have different screens. Refer to **Section 3 - Available VesselView Display Screens** for a list of the engine types and their associated screens.

The vessel screens display information about vessel performance, speed, status of tanks, generator, heating, and air conditioning. Screens available from the vessel menu vary according to the engine type.
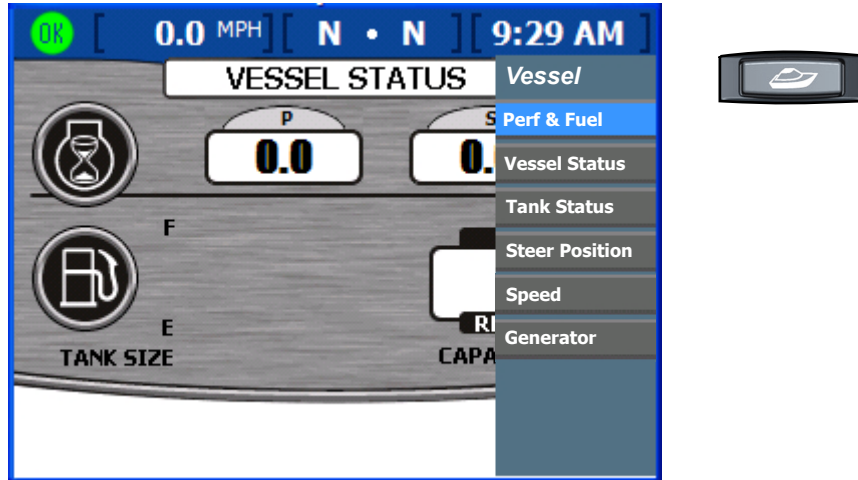
32632

Checking Vessel Status

The "VESSEL STATUS" screen displays engine run time for up to three engines, as well as fuel information.

a - Engine run time
b - Fuel tank levels
c - Fuel tank size
d - Total fuel remaining
e - Total fuel capacity
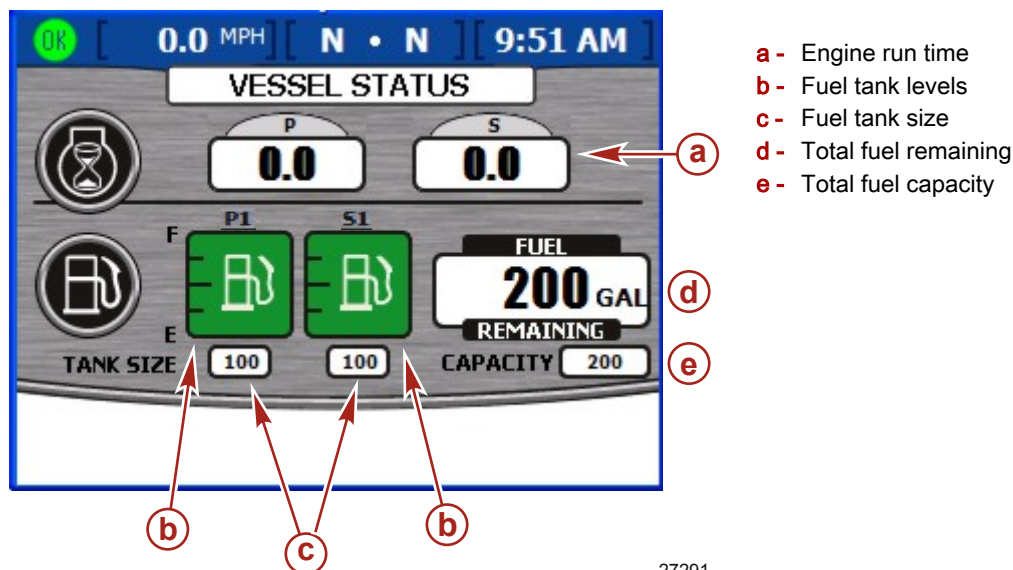
27291

• Engine run time is displayed in hours for up to three engines.
• Fuel remaining is displayed in U.S. gallons by default. Refer to **Section 4 - Units 2** to change the units.
• Capacity shows the total fuel capacity of all available fuel tanks.
• The fuel remaining in each tank is displayed in the fuel tank gauge icon. The fuel tank color will change from green to red if the tank is below the critical level.

Checking Tank Status

The "TANK STATUS" screen displays the contents and level of each tank, up to two tanks for each engine. Refer to **Section 2 - Setup and Calibration** to configure the tanks displayed on this screen.

a - Port 1 (P1); gasoline
b - Port 2 (P2); waste
c - Starboard 1 (S1); gasoline
d - Starboard 2 (S2); water

26933
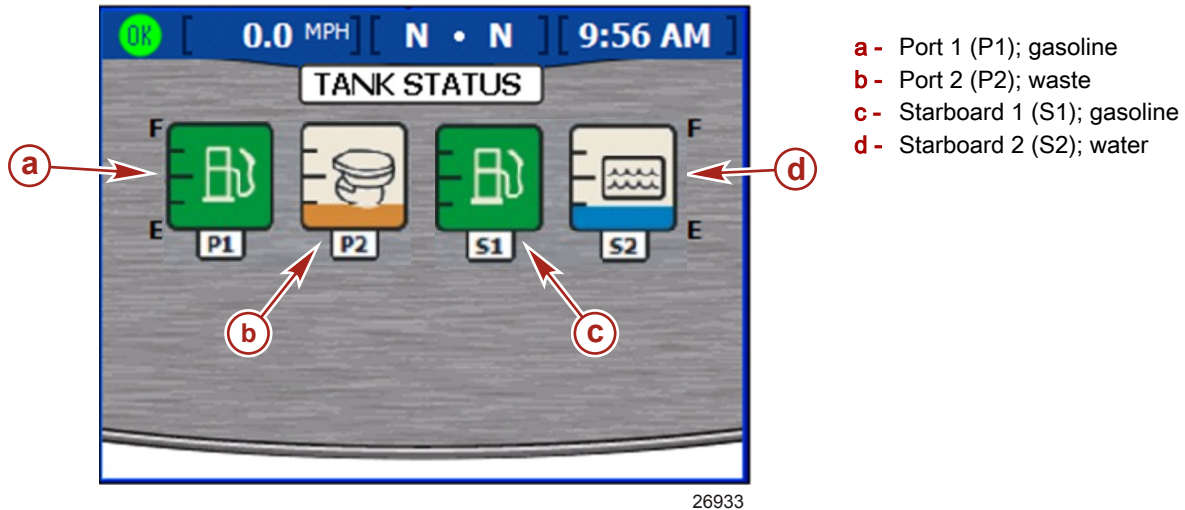
- Each tank gauge icon shows the type of tank: water, waste, fuel, or oil.
- Tanks are labeled by their locations. Available labels are:
  - Starboard 1 (S1), starboard 2 (S2), starboard 3 (S3), starboard aft (SA), or starboard forward (SF)
  - Port 1 (P1), port 2 (P2), port 3 (P3), port aft (PA), or port forward (PF)
  - Center 1 (C1), center 2 (C2), center 3 (C3), center aft (CA), or center forward (CF)
  - The contents of each tank are color coded:
    - Blue represents water
    - Brown represents waste
    - Green represents gasoline or diesel fuel
    - Black represents oil
    - Red represents critical fuel level

NOTE: Press the check button to display a dialog box showing the tank colors and tank contents. Press the "X" button to close the dialog box.

27290
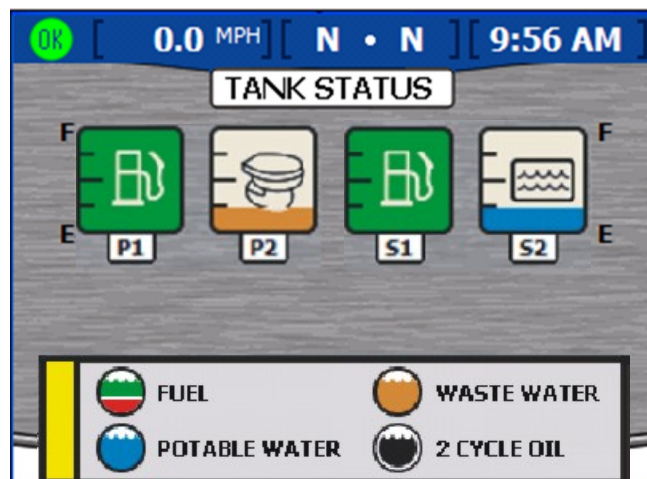
Tank status pop-up window

Viewing Steering Position (MerCruiser Only)

The "STEERING POSITION" screen displays the current steering position in degrees. The default steering position can be adjusted 60 degrees in either direction by changing the offset. The data options on the bottom of the screen can be changed to display different data. Refer to **Section 4 - Settings** for more information.

NOTE: Zeus and Axius drive applications show the steering angle needle from the drive with the most angle.

a - RPM
b - Depth
c - Vessel speed
d - Steering angle

45176

NOTE: To invert the steering position, use the "INVERT STEERING" option on the "Preferences" screen in the "Settings" menu.

•   The steering position is displayed in degrees.

•   Water depth and boat speed are displayed below the steering position by default. You can choose to display boat speed, wind speed. wind direction, water depth, gear position, speed over ground ("SOG"), bearing to waypoint ("BTW"). Environment variables are only available for display on vessels equipped with these SmartCraft sensors.

Viewing Generator Data

VesselView displays operating information for your SmartCraft-enabled Onan or Kohler generator on the "GENERATOR" screen.

NOTE: The generator must be capable of SmartCraft protocol language for this display to function. If the generator is not SmartCraft supported, you can turn the generator display off . The menu path is: "Main" > "Settings" > "Screen Options" > "Pages On/Off" > "Vessel."

a - Generator output voltage (120 V or 240 V)
b - Generator run hours
c - Output frequency (Hz)
d - Generator engine temperature
e - Oil pressure
f - Generator cranking battery voltage
g - Run indicator

27275
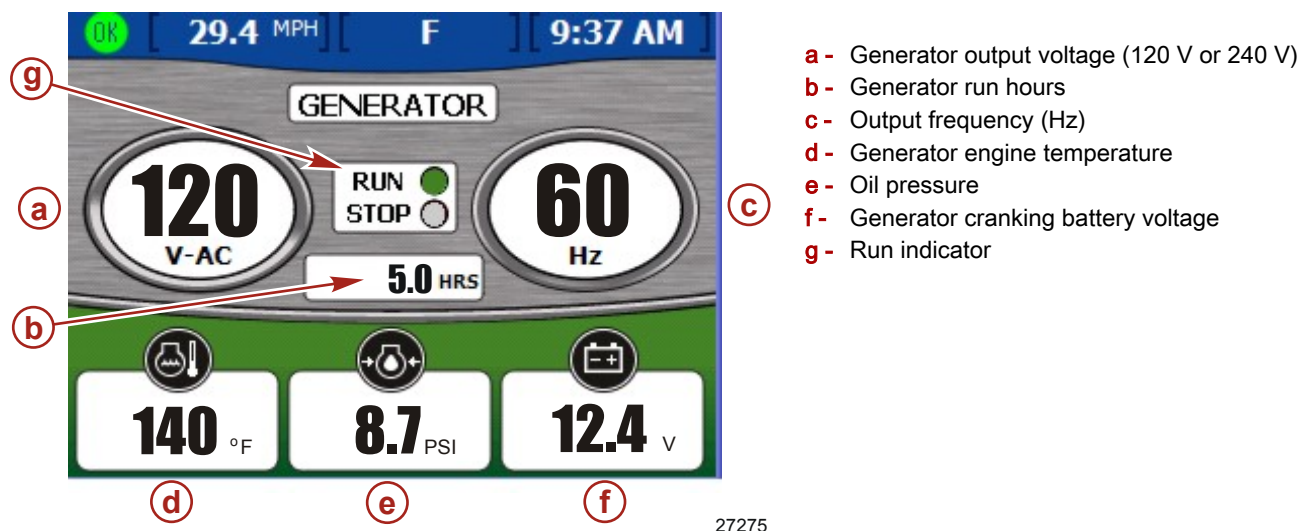
•   The generator manufacturer's name is automatically displayed at the top of the screen.

•   If the generator is running, a green indicator appears next to "RUN." Otherwise, a red indicator appears next to "STOP."

•   The run time displays the running time of the generator to the tenth of an hour up to 999.9 hours, then in whole hours to 99,999 hours.

•   Battery voltage and engine temperature are displayed with both Onan and Kohler generators.

•   Oil pressure is available with Onan generators only.

Section 7 - Environment and Navigation Menu

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7

Using Environment and Navigation Screens

Environment and Navigation Screens

IMPORTANT: The available VesselView menu items and options are dependent on the engine type, and if screens have been manually turned on or off.

The environment and navigation screens display environment information such as sea depth and sea temperature. When a global positioning system (GPS) is installed, navigational information will provide current latitude and longitude. If the GPS source is a chartplotter, a calculated fuel to waypoint will show a green indicator if you have enough fuel to reach your waypoint.
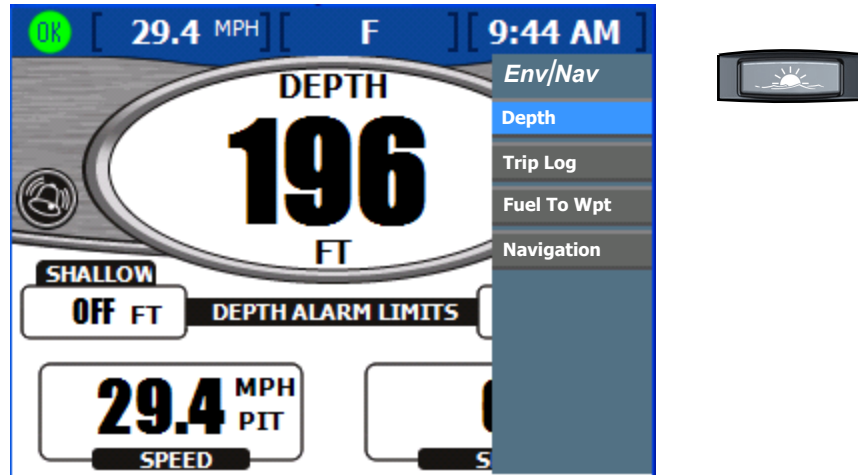
32710

IMPORTANT: The screens listed in the "Env/Nav" menu are determined by the vessel setup and other components connected to the VesselView unit. For example, VesselView will not display fuel to waypoint data if the GPS source attached to VesselView does not have chartplotter capabilities.

Viewing Depth and Water Temperature

The "DEPTH" screen displays the depth, speed, and sea temperature; and enables you to set both deep and shallow depth alarms.

a - Actual depth
b - Horn alarm activated icon
c - Shallow alarm limit
d - Boat speed
e - Sea temperature
f - Deep alarm limit
g - Visual alarm activated icon
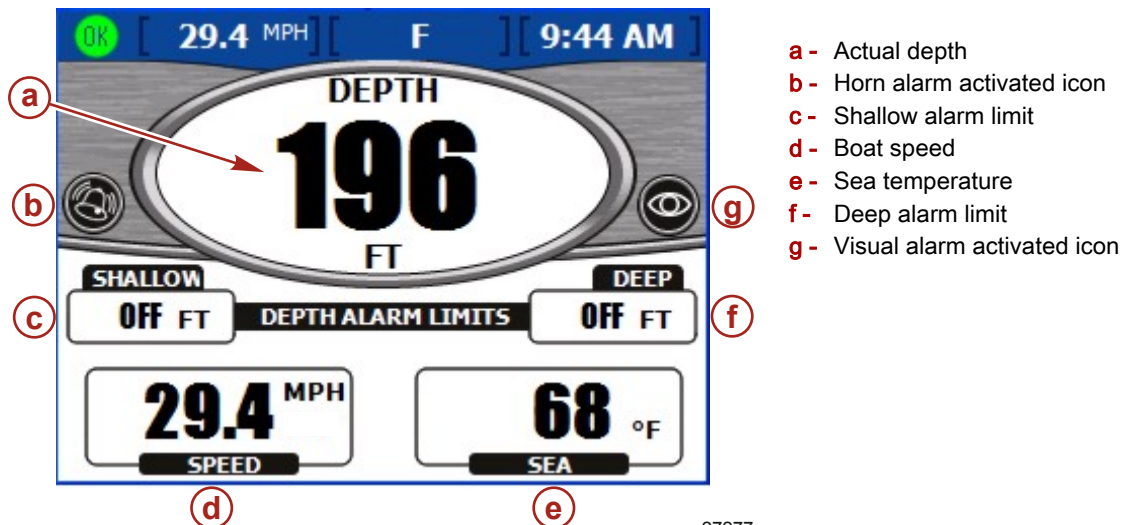
27277

NOTE: Shallow depth alarms sound audibly even if the "Warning Horn Off" option is selected in the "Warnings" screen of the "Settings" menu.

- Depth is displayed in feet by default. To change the units, refer to **Section 4 - Settings**.
- The "DEPTH" screen displays an icon to indicate that audible or visual alarms are set.
- "SHALLOW" and "DEEP" alarm settings are displayed based on what has been set in the depth alarms pop-up window.
- Speed is displayed using pitot, paddle, or GPS sensor information.
- Sea temperature is displayed in fahrenheit by default. If the sea temperature sensor is unavailable or not connected, the default temperature displayed is –40°.

Setting Depth Alerts

NOTE: Any active alarms are available for review by pressing the brightness and alarm button.

1. From the "DEPTH" screen, press the check button. VesselView displays the depth alerts dialog box.
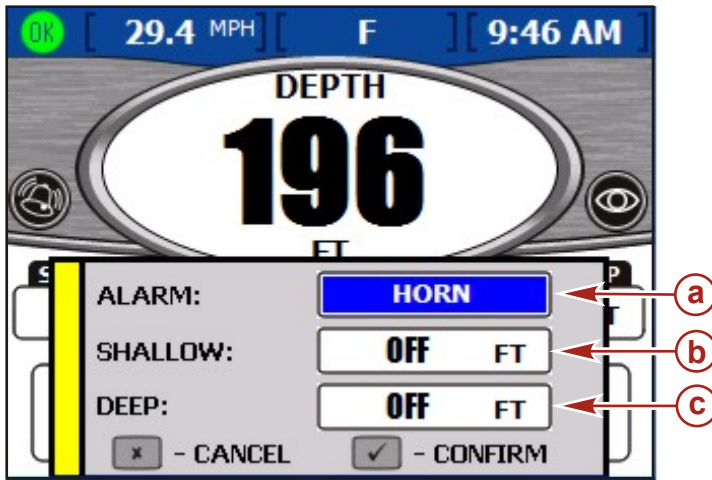
a - Alarm type
b - Shallow alarm depth
c - Deep alarm depth

27278

2. Use the left or right arrow on the pad to select what type of alert to set. The available options are:

   • "BOTH"—Both a visual alarm and audible alarm horn. There will also be an active alarm pop-up window and the actual depth measurement text will change from black to red in color.

   • "NONE"—No horn or visual.

   • "VISUAL"— An alarm icon appears in the status bar and an active alarm pop-up window will appear when the alert level is reached. Also the actual depth measurement text will change from black to red in color. There will not be any audible alert.

   • "HORN"—An audible alarm horn sounds and an active alarm pop-up window will appear when the alert level is reached. There will not be any visual alarm icon in the status bar.

27289

Critical depth pop-up message

3. Press the down arrow to proceed to the "SHALLOW" option.
   IMPORTANT: Depth is measured from the depth transducer location. To measure from the keel or waterline, set a depth offset in the "Offsets" screen of the "Settings" menu. Refer to Section 4 - Settings for more information.

4. Use the left or right arrow on the pad to set the depth to receive a shallow alert.

5. Press the down arrow on the pad to proceed to the "DEEP" option.

6. Use the left or right arrow on the pad to set the depth to receive a deep alert.

7. Press the check button to confirm your selections.

Viewing Trip Log Information

The "TRIP LOG" screen displays the time, distance traveled, and average performance since the last reset.

a - Trip time
b - Distance traveled
c - Fuel used
d - Fuel economy
e - Fuel remaining
f - Average speed
g - Engine run time
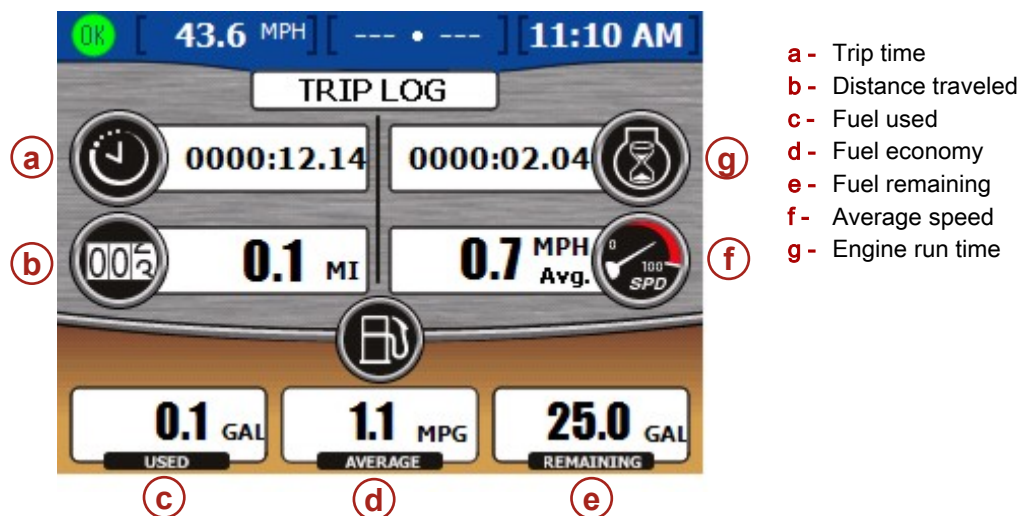
27280

- Trip time is the amount of time the VesselView has been operated since the last reset.
- Fuel economy displays the average fuel use since the last reset. By default, this is calculated in miles per gallon.
- Fuel used is the total amount of fuel used from all tanks since the last reset.
- Average speed displays the average boat speed since the last reset.
- Distance shows the distance traveled since the last reset.
- Run time shows the total hours the engines have been running since the last reset.
- Fuel remaining is the total fuel amount left in all tanks. This amount cannot be reset.

Resetting Trip Log Amounts

1. From the "TRIP LOG" screen, press the check button. VesselView displays the reset dialog box.
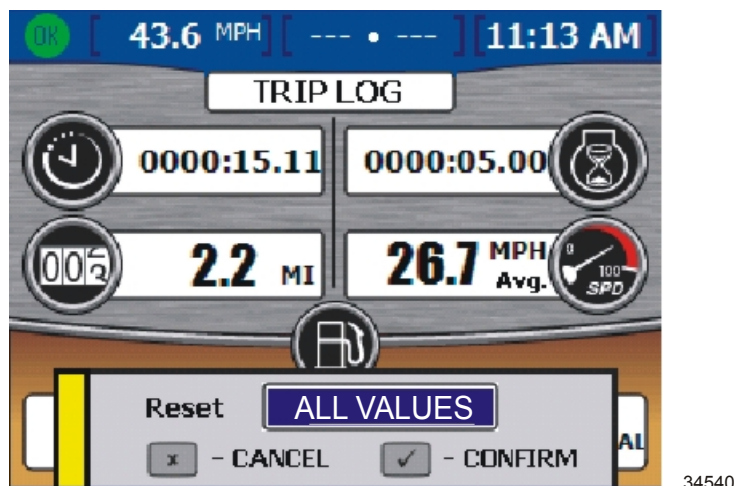
34540

Trip log reset pop-up window

2. Press the check button to confirm your choice to reset the trip log screen, or press the "**X**" button to cancel the reset.

   NOTE: *The fuel remaining value cannot be reset through this menu.*

Viewing Fuel to Waypoint Data

The "FUEL TO WAYPOINT" screen displays dynamic travel information with a GPS unit connected. The range to waypoint will show the estimated distance the engines will run at the current speed with the fuel available. If the distance to waypoint is less than the range to waypoint, the range distance will be green. If the distance to waypoint is more than the range to waypoint, the range distance will be red. For the most accurate data, maintain bearing to the waypoint destination.

a - Range to waypoint
b - Distance to waypoint
c - Bearing to waypoint
d - Fuel to waypoint
e - Speed over ground
f - Total fuel flow rate
g - Fuel economy

27284
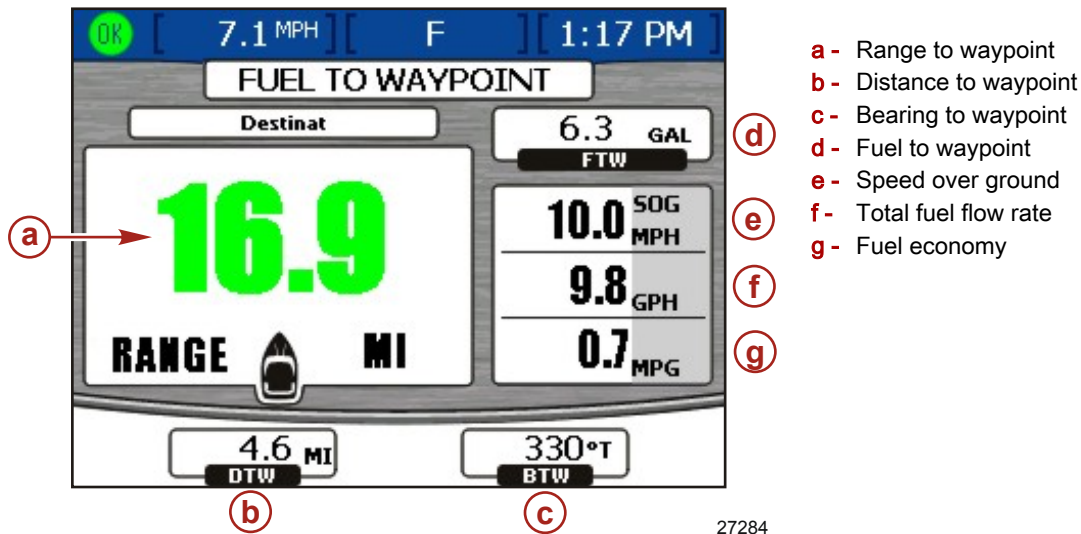
- If you have set a waypoint on your GPS unit, the distance to waypoint (DTW) option shows the remaining distance.
- The speed over ground (SOG) option displays the boat's speed as calculated by the GPS unit.
- The fuel to waypoint (FTW) will display the estimated amount of fuel needed to reach the waypoint.
- Displays the total fuel flow rate and fuel economy.

Viewing Navigation Data

The "NAVIGATION" screen displays information from a connected GPS unit and is available on gasoline engines only.

a - Latitude location coordinate
b - Longitude location coordinate
c - Distance to waypoint (DIST WPT)
d - Speed over ground (SOG)
e - GPS heading

27333
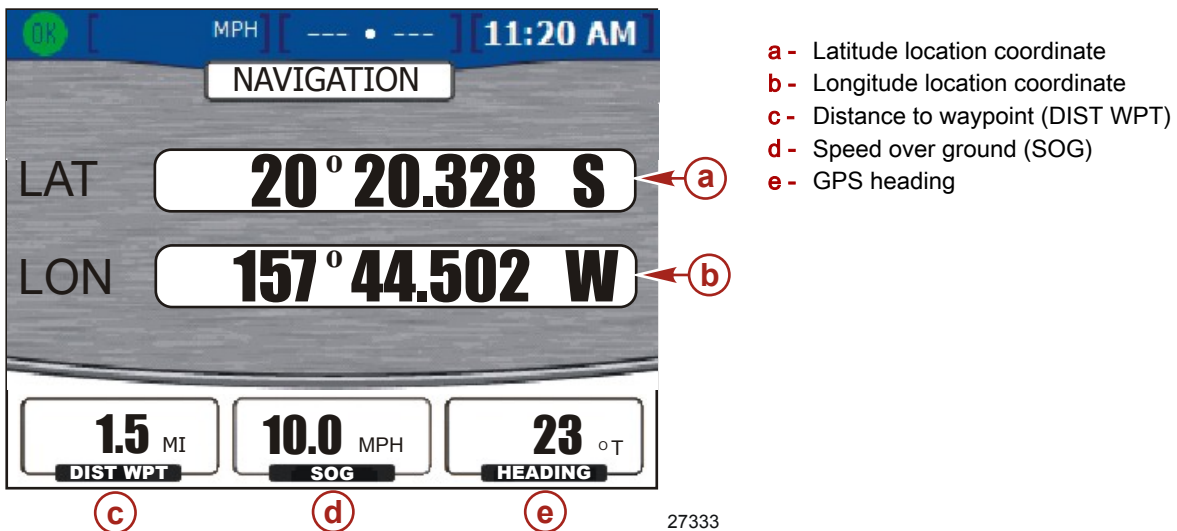
- Latitude and longitude are displayed based on available GPS data.
- If you have set a waypoint, the "DIST WPT" box shows the remaining distance.
- The "SOG" box displays the boat's speed as calculated by the GPS unit. Due to wind and current, this value may differ from the speed in the water.
- The heading is calculated by the GPS unit. Due to wind and current, this heading may differ from your course over ground.

Viewing Autopilot Data (Zeus and Axius Only)

Autopilot is a drive integrated system that utilizes a GPS receiver, a customer-supplied NMEA 0183 compatible chartplotter, an inertial measurement unit (IMU), the electronic helm in combination with the VesselView, joystick control, and the Precision Pilot or Axius trackpad. Refer to your power package owner's manual for a complete understanding of the Autopilot features and operation.

Autopilot indicates the drive location (angle) with a needle colored red, black, and green. Red indicates the port drive, green indicates the starboard drive, and black indicates the center drive. The center drive color can vary with red or green, depending on the configuration and number of VesselView's installed.

Using the trackpad, the operator is able to use waypoints, tracking along a desired path; the boat will navigate itself along this path.

NOTE: Autopilot will not initiate turns when track waypoint mode is engaged. Turn features are only available in auto heading mode.

• Autopilot functions are controlled through the Precision Pilot trackpad or Axius trackpad only.

• When autopilot is engaged, "AUTOPILOT" screens appear on the VesselView for three seconds unless calibrated otherwise.

• The response level is used to change how aggressive corrections respond. "1" is for calm conditions, "2" is for moderate conditions, and "3" is for severe conditions.

a - Response level
b - Compass heading
c - Drive angle reference
d - RPM
e - Autopilot icon

34338
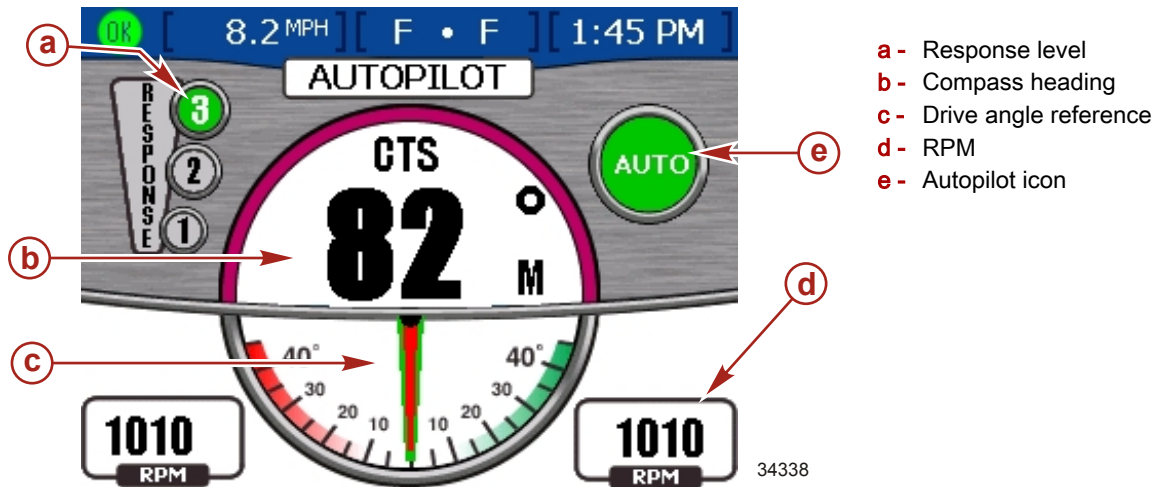
• Pressing any button on the VesselView cancels the "AUTOPILOT" screen, unless the "AUTOPILOT" screen was selected from the VesselView "Environment and Navigation" menu.

• The "TURN" buttons on the Precision Pilot or Axius trackpad provide a 10° course correction for each press to the port or starboard.

• The joystick provides a 1° course correction for each press to the port or starboard.

The steering wheel feels locked into a detent when "AUTO" or "TRACK" are engaged. Approximately 3.4–4.5 kg (8–10 lb) of force is required to overcome this detent. Manually overcoming the steering wheel's detent force automatically puts the autopilot into standby mode.

Standby

• In standby mode, the display shows a digital compass value and the angle of the drives when engaged.

• The compass value is the actual heading from the IMU.

• On the right side of the screen, the "OFF" icon indicates the autopilot is not engaged.
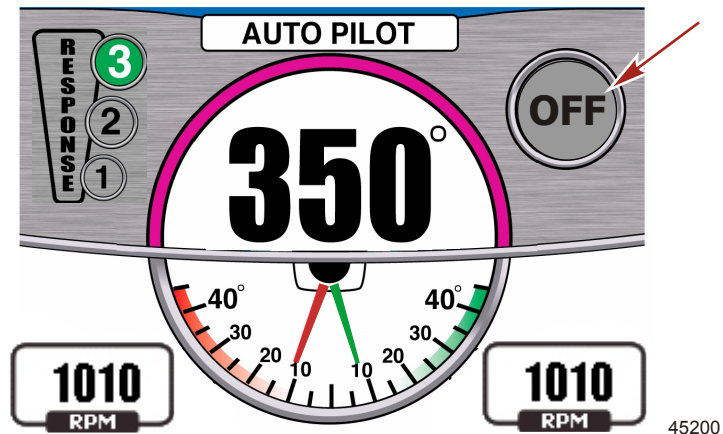
Standby screen on VesselView

Track to Waypoint

⚠ WARNING
In some Precision Pilot modes—"Auto Heading," "Track Waypoint," and "Waypoint Sequence"—the boat navigates a preset course. The boat does not automatically respond to hazards such as other watercraft, obstacles, swimmers, or underwater terrain. Collision with these hazards could cause boat damage, serious injury, or death. The operator must stay at the helm, ready to evade hazards and warn others of course changes.

Tracking to a waypoint requires the integration of a chartplotter. Press the "TRACK WAYPOINT" button on the keypad, the "AUTO" icon turns on and a single horn beep sounds indicating track waypoint is engaged. Autopilot tracks to the first waypoint on the chartplotter course. Two horn beeps sound if track waypoint does not engage.

IMPORTANT: Track waypoint mode does not automatically turn the boat upon arrival at a plotted waypoint.
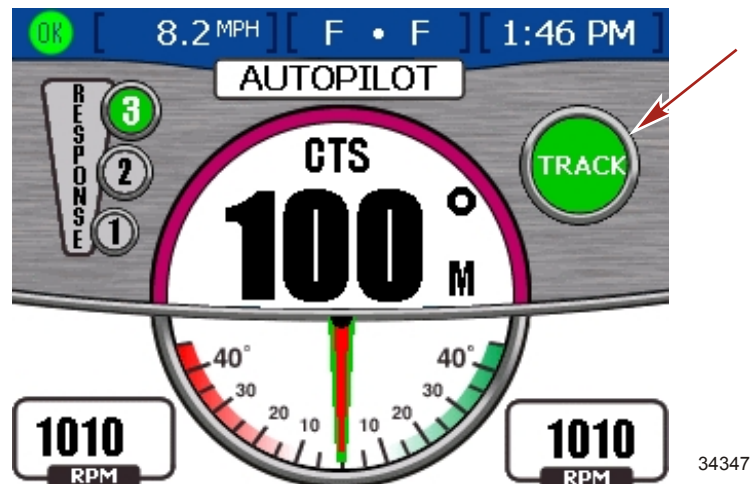
Waypoint Sequence

⚠ WARNING
In some Precision Pilot modes—"Auto Heading," "Track Waypoint," and "Waypoint Sequence"—the boat navigates a preset course. The boat does not automatically respond to hazards such as other watercraft, obstacles, swimmers, or underwater terrain. Collision with these hazards could cause boat damage, serious injury, or death. The operator must stay at the helm, ready to evade hazards and warn others of course changes.

When the boat enters a waypoint arrival zone as indicated by the chartplotter, a short horn beep sounds and the "WAYPOINT SEQUENCE" button light on the keypad starts blinking to inform the operator to make a turn. If the waypoint sequencing mode has not been engaged, the "WAYPOINT SEQUENCING" icon light blinks at the arrival zone.

34348
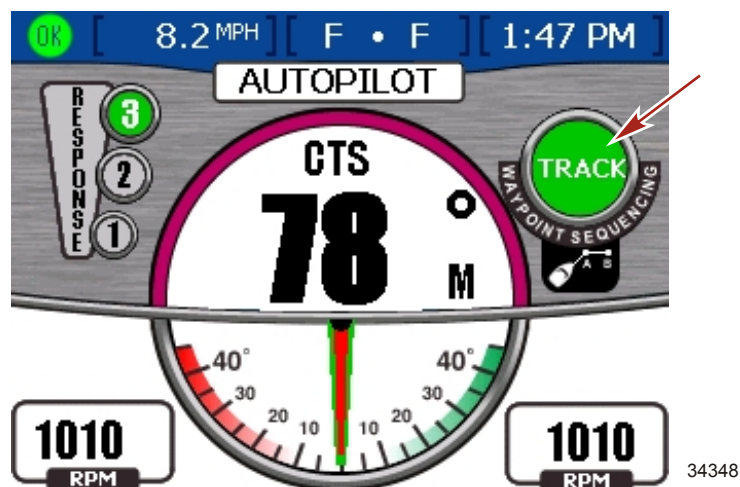
VesselView displays a pop-up screen advising the operator to acknowledge the waypoint arrival. The operator must determine if it is safe to turn the boat.

34350
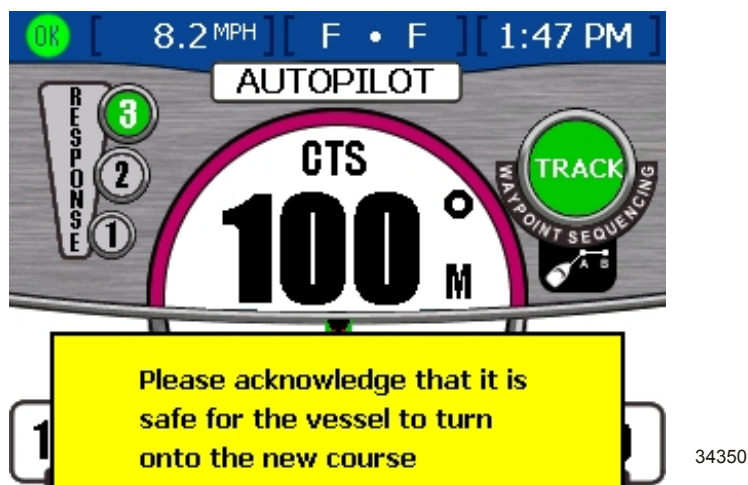
Press the "WAYPOINT SEQUENCE" button to acknowledge that it is safe to automatically turn the boat and maneuver to the new course. If the waypoint is not acknowledged, the boat continues on its current heading. If you are not in a set waypoint arrival zone, the waypoint sequencing mode starts auto sequencing to the waypoints in the route. Acknowledge that you understand the information presented by the pop-up screen warning and press the check button. At the end of the track waypoint route, you must input a new route or take control of the boat. Otherwise the boat reverts to auto heading mode and continues on its last course heading.

34352

Skyhook Station Keeping

The vessel may be equipped with the Skyhook Station Keeping feature. This system utilizes global positioning system technology (GPS) and an electronic compass to automatically control shifting, throttling, and steering to maintain heading and approximate position. This feature can be helpful when waiting for space near a fuel dock, waiting for bridges to open, or when the water is too deep for an anchor.

Skyhook does not maintain an exact fixed position, but rather will hold the vessel in a fixed compass heading within an area. The size of this area is affected by the accuracy of the GPS satellite system, the satellite signal quality, the physical position of the satellites relative to the receiver, solar flares and the proximity of the receiver on the boat to large structures and trees.

Under typical operating conditions Skyhook is capable of holding the vessel within a radius of 10 meters (30 feet). However, this distance may increase to a radius of 30 meters (100 feet). Do not engage Skyhook when the vessel is within 30 meters (100 feet) of any obstacle, obstruction, dock, bridge, vessel, swimmer, etc.

While in Skyhook, it is essential the captain remain at the helm prepared to take control of the vessel due to changing conditions such as:

• • A swimmer or another vessel approaches the vessel
• • Skyhook satellite signal is lost and automatically disengages
• •The size of the area which the vessel is being held in increases

Before engaging Skyhook, the captain should brief all passengers on how Skyhook operates. Direct them to stay out of the water, not to sit or stand where they could fall overboard, and to be alert for any sudden shifts in the vessel's position. Occasionally the Skyhook system may apply a brief surge in power to hold a position. If passengers are not prepared for this occurrence they may loose their balance and fall.

⚠ **WARNING**

A rotating propeller, a moving vessel, or a device attached to a moving vessel can cause serious injury or death to people in the water. When Skyhook is engaged, the propellers rotate and the vessel moves to maintain the position of the vessel. Stop the engines immediately whenever anyone is in the water near the vessel.

Skyhook will not engage unless the joystick and control levers are in neutral. When Skyhook is engaged, the propellers turn but, the rotation may not be obvious. Ensure that no one is in the water near the vessel within 30 meters (100 feet) and the passengers are secure when the engines are running.

When Skyhook is engaged the captain must:

• Remain at the helm
• Watch closely for anyone in the water near the vessel
• Disengage Skyhook if anyone enters the water or approaches the vessel from the water

- Watch for approaching vessels and disengage Skyhook if any vessel is on an intercept course

Skyhook system response will change with wind and current conditions. Familiarize yourself with how best to position your vessel regarding the speed and direction of wind and current. When you place the bow into the wind, the Skyhook system response is smoother. Experiment to determine what works best for your vessel in various situations.

Occasionally the GPS signal may weaken or become temporarily unavailable. When this happens Skyhook will sound an alarm and automatically disengage. The drives will return to neutral and the vessel will drift with the wind and current. You must be ready to take control of the helm at all times.

IMPORTANT: Activities in the water near the vessel while Skyhook is engaged may result in injury or death. The operator and passengers should read and observe the safety warning labels on the vessel before Skyhook is engaged.

The following safety warning labels are located on the vessel for reference. Contact the engine manufacturer for replacement safety warning labels if they are missing, damaged, or cannot be read

33798

Label near the Precision Pilot trackpad
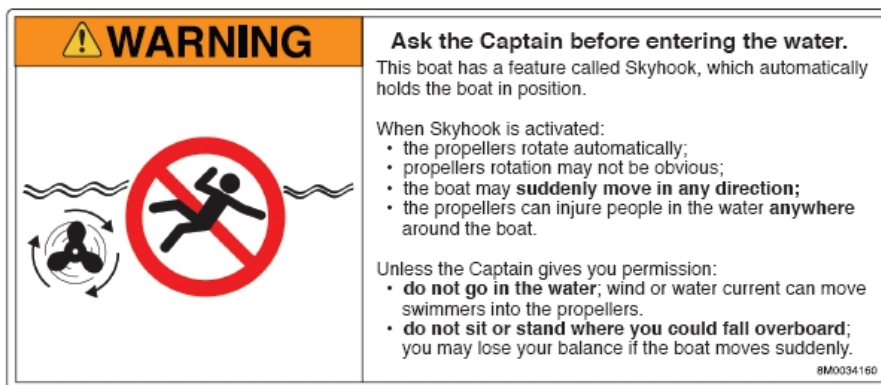
33824

Label in the vicinity of the transom boarding area

VesselView Skyhook Screens

- A warning will be displayed on the VesselView screen prior to Skyhook engagement.

34354

- A single beep will be heard when engaging Skyhook mode. The display shows the drive location as different colors: red for port, black for center, and green for starboard.

45154

Triple engine power package display

a - Response level
b - Skyhook engaged "SH"
c - Starboard drive location (green)
d - Center drive location (black)
e - Port drive location (red)
f - Compass heading
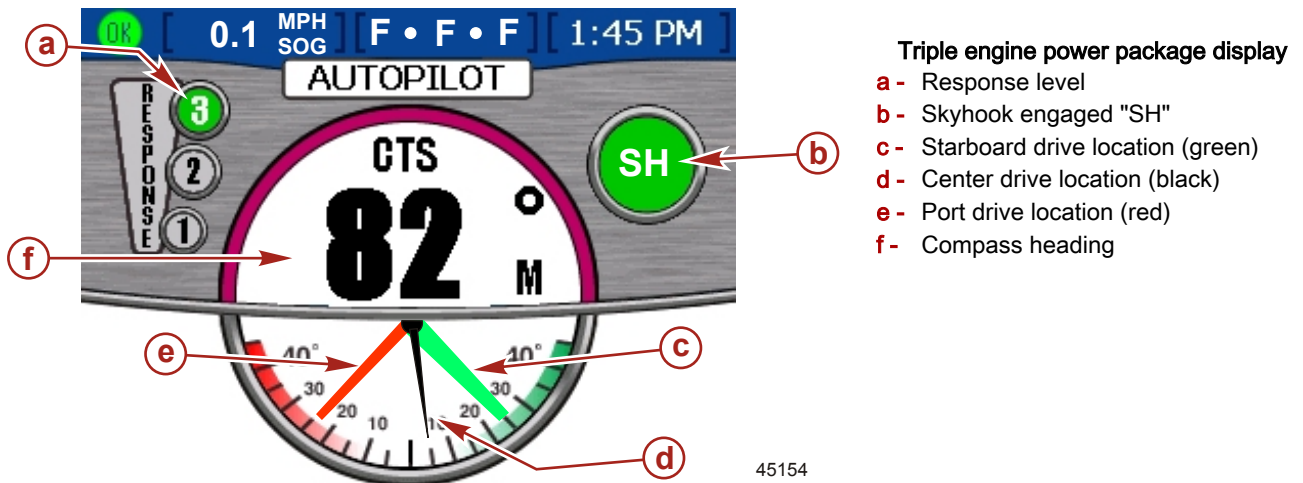
- A "NOTICE" pop-up screen may be seen for a few seconds after engaging skyhook. The information on the pop-up advises optimal performance occurs when drives are fully trimmed down and to adjust the trim position.

NOTICE

ADJUST TRIM POSITION

Optimal Performace Occurs When Drives Are Fully Trimmed Down

45156
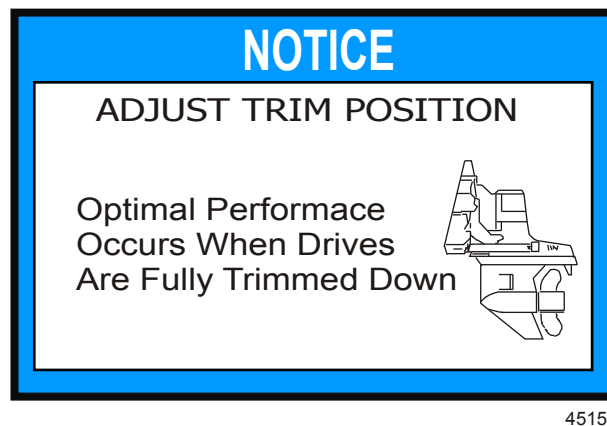
- A single beep sounds when the Skyhook is disengaged or the GPS signal is lost.

> ⚠ **WARNING**
>
> When the Skyhook is engaged, the boat stays in a preset position; however, Skyhook can disengage unexpectedly. When Skyhook disengages, the boat does not hold the preset position and may drift, causing the potential of damage or personal injury. The helm operator must be able to take control of the boat when using Skyhook.

Joystick Screen

The "JOYSTICK" screen provides a visual representation of a drive direction, thrust, and a vessel compass heading and is only available with Zeus and Axius power packages. Dual power package installations will show the arrows on the drives indicating the direction of the thrust with blue for forward thrust and pink for reverse thrust. The length of the thrust color indicates the amount of thrust that is applied. The icon color will change to green when the joystick is activated. Triple and quad power package installations will display information similar to the "AUTOPILOT" screens for Joystick operation.

Dual power package display only
- **a -** Vessel compass heading
- **b -** Forward thrust level
- **c -** Icon indicator "OFF" or "ON"
- **d -** Reverse thrust level
- **e -** Port engine RPM
- **f -** Starboard engine RPM

A "NOTICE" pop-up screen may be seen for a few seconds after engaging joystick control. The information on the pop-up advises optimal performance occurs when drives are fully trimmed down and to adjust the trim position.
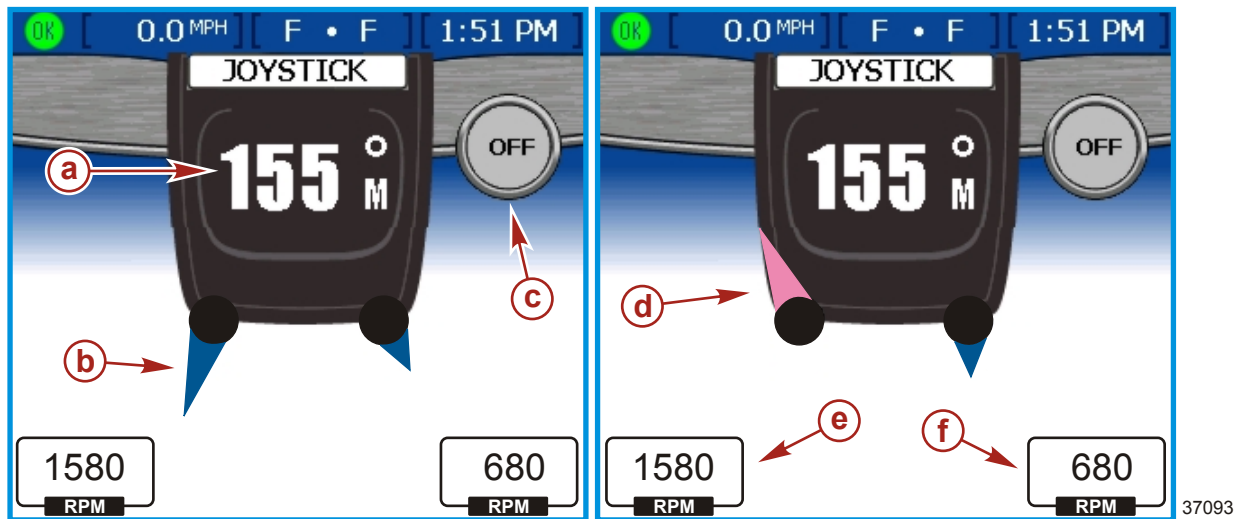

NOTICE

ADJUST TRIM POSITION

Optimal Performace
Occurs When Drives
Are Fully Trimmed Down
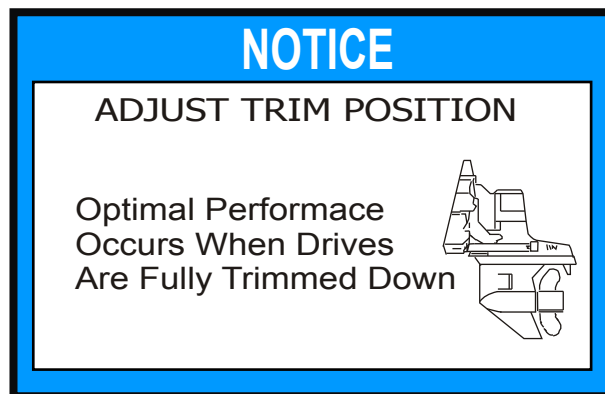
45156

Section 8 - Glossary of Terms

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8

VesselView Systems Terminology

Term	Definition
ACTIVE	Active fault state of sensors, switches, injectors, etc.
AP	Autopilot
AIR TEMP	Air temperature
AUTO	Auto heading engaged
BAR	Unit of measurement for pressure
BATTERY VOLTS	Main engine battery volts
BLOCK PSI	Inlet water pressure (PSI or kPa)
BEARING TO WAYPOINT	The compass direction from a position to a waypoint
BRG TO WP	Bearing to waypoint
BTW	Bearing to waypoint
C	Celsius
C1	Center tank 1
C2	Center tank 2
C3	Center tank 3
CA	Center aft tank
CF	Center forward tank
CAN	Controller Area Network
COURSE OVER GROUND	The current direction of travel relative to a ground position
CRS OVR GND	Course over ground
COG	Course over ground
CTS	Course to steer
DELTA %	Delta % is a percentage of continuous movement in one direction per second. This is used as a tolerance to define when the "TRIM/TAB" pop-up window appears. The higher the percentage, the less likely the "TRIM/TAB" pop-up window will appear.
DELTA PRESSURE	Difference between fuel pressure and manifold absolute pressure
DEMAND %	TPI%/TPS%; on DTS models this is ERC demand %.
DEVICE ID	Number to identify a VesselView at a station
DIST WPT	Distance to waypoint
DTS	Digital Throttle and Shift
DTW	Distance to waypoint
ENGINE ID	Engine identification
ENGINE RPM	Revolutions Per Minute of engine
ERC	Electronic Remote Control handle at the helm
ESC	Electronic Shift Control (Actuator)
F	Fahrenheit
FUEL LEVEL	Vessel fuel tank sender data
FUEL TO WAYPOINT	The estimated amount of fuel needed to reach the waypoint
FT	Feet
FTM	Fathoms
FTW	Fuel to waypoint
GAL	Gallons

Term	Definition
GPH	Gallons per hour
GPS	Global Positioning System
GUARDIAN	Engine Guardian Strategy is active causing a forced reduction in available power
HEAD TMP	Cylinder head temperature (F or C)
HELM ID	Number to identify the station the VesselView is being installed on
IGL	Empirical gallons
JS	Joystick
KM	Kilometers
KMH	Kilometers per hour
KNOTS	Unit of measurement for speed
KPA	Kilopascal
KPL	Kilometers per liter
LIT	Liters
LPH	Liters per hour
Met	Meters
Mil	Miles
MPG	Miles per gallon
MPH	Miles per hour
NM	Nautical mile
NMEA 0183	A combined electrical and data specification for communication between marine electronic devices and GPS receivers
NMPG	Nautical miles per gallon
NUM ENGINES	Number of engines on the vessel
NA	Not available
OFF	Not engaged
OIL PSI	Engine oil pressure (PSI or kPa)
P1	Port tank 1
P2	Port tank 2
P3	Port tank 3
PA	Port aft tank
PF	Port forward tank
PADDLE WHEEL	Data used to calculate vessel speed (frequency in hertz)
PITOT	Pitot pressure sensor data for vessel speed calculations
PORTCNTR	Port center
PSI	Pounds per square inch
RANGE TO WAYPOINT	The estimated distance the engines will run at the current speed with the fuel available
RTW	Range to waypoint
S1	Starboard tank 1
S2	Starboard tank 2
S3	Starboard tank 3
SA	Starboard aft tank
SF	Starboard forward tank

Term	Definition
SH	Skyhook
SHIFT	Neutral or in gear position
SOG	Speed over ground
SPD OVR GRD	Speed over ground
SPEED OVER GROUND	The speed at which the vessel is moving relative to the earth's surface
STBD	Starboard
STBY	Standby
STBDCNTR	Starboard center
TEMP	Temperature
TRACK	GPS mode engaged
TRIM	Trim sender data
USB MEMORY STICK	Memory device used to save and load VesselView configuration data
WOT	Wide-open throttle

Section 9 - Customer Assistance Information

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9

Product Repair and Service

Always return the product to your local authorized dealer should the need for service arise. Only authorized dealers have factory-trained mechanics with the knowledge, special tools, equipment, and genuine parts and accessories to properly service your engine should the need occur.

Service Away from Home

If you are away from your local dealer and the need arises for service, contact the nearest authorized dealer. Refer to the Yellow Pages of the telephone directory. If, for any reason, you cannot obtain service, contact the nearest Mercury Marine Service Office.

Parts and Accessories Inquiries

All inquiries concerning genuine replacement parts and accessories should be directed to your local authorized dealer. The dealer has the necessary information to order parts and accessories for you. When inquiring on parts and accessories, the dealer requires the model and serial number to order the correct parts.

Service Assistance

Your satisfaction with your outboard product is very important to your dealer and to us. If you ever have a problem, question or concern about your outboard product, contact your dealer or any authorized Mercury Marine dealership. If additional assistance is required, take these steps.

1. Talk with the dealership's sales manager or service manager. If this has already been done, then contact the owner of the dealership.

2. Should you have a question, concern, or problem that cannot be resolved by your dealership, please contact Mercury Marine Service Office for assistance. Mercury Marine will work with you and your dealership to resolve all problems.

The following information will be needed by the service office:

- Your name and address
- Daytime telephone number
- Model and serial number of your outboard
- The name and address of your dealership
- Nature of problem

Mercury Marine Service Offices

For assistance, call, fax, or write. Please include your daytime telephone number with mail and fax correspondence.

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

Australia, Pacific		
Telephone	(61) (3) 9791-5822	Brunswick Asia Pacific Group 132-140 Frankston Road Dandenong, Victoria 3164 Australia
Fax	(61) (3) 9706-7228	

Europe, Middle East, Africa		
Telephone	(32) (87) 32 • 32 • 11	Brunswick Marine Europe Parc Industriel de Petit-Rechain B-4800 Verviers, Belgium
Fax	(32) (87) 31 • 19 • 65	

Mexico, Central America, South America, Caribbean		
Telephone	(954) 744-3500	Mercury Marine
Fax	(954) 744-3535	11650 Interchange Circle North Miramar, FL 33025 U.S.A.

Japan		
Telephone	072-233-8888	Kisaka Co., Ltd.
Fax	072-233-8833	4-130 Kannabecho Sakai-shi Sakai-ku 5900984 Osaka, Japan

Asia, Singapore		
Telephone	(65) 65466160	Brunswick Asia Pacific Group
Fax	(65) 65467789	T/A Mercury Marine Singapore Pte Ltd 29 Loyang Drive Singapore, 508944

Marine Repair Logistics

Cummins MerCruiser Diesel offers Marine Repair Logistics (MeRL) as a concierge service during the warranty period for your new Zeus and Axius equipped vessel. MeRL is a proactive 24 x 7 x 365 team offering premium global service focused on reducing vessel repair cycle time. MeRL can assist in finding an authorized dealer/distributor for any of your service needs. Contacting MeRL will put you in touch with a Marine Specialist who will provide personal attention to the entire service event.

Marine Repair Logistics is available in the USA as a toll free call.

Marine Repair Logistics Phone Numbers	
USA only	Outside of the USA
1-866-549-6458	+1-843-329-5735

You may also call **1-800-DIESELS** to locate your nearest distributor.

Local Repair Service

Always return your Cummins MerCruiser Diesel (CMD) powered boat to your authorized dealer/distributor should the need for service arise. Only the dealer/distributor has the factory-trained mechanics, knowledge, special tools and equipment, and the genuine Cummins/Mercury Marine parts and accessories to properly service your engine and drive should the need occur. They know your engine and drive best. Contact 1-800-DIESELS to locate your closest distributor.

Service Away From Home

If you are away from your local dealer and the need arises for service, contact the nearest Cummins MerCruiser Diesel Authorized Repair Facility. Refer to the Yellow Pages of the telephone directory or by using the service locator on the Cummins MerCruiser Diesel website (www.cmdmarine.com). If, for any reason, you cannot obtain service, contact the nearest Regional Service Center. Outside the United States and Canada, contact the nearest Marine Power International Service Center.