

# Supra VISION TOUCH 2016



*Owner's Manual*

**We continually strive to bring you the highest quality, full-featured products. As a result, you may find that your actual display screens may be slightly different than what was represented in this manual at the time of printing.**

## Table of Contents

|                                        |           |
|----------------------------------------|-----------|
| <b>Product Information.....</b>        | <b>4</b>  |
| Care and Maintenance .....             | 4         |
| <b>Basic Navigation Features .....</b> | <b>5</b>  |
| Quick Access Keys .....                | 5         |
| Touch Point Commands.....              | 5         |
| <b>Features.....</b>                   | <b>6</b>  |
| Home Screen .....                      | 6         |
| GPS .....                              | 11        |
| Media .....                            | 13        |
| Profiles .....                         | 22        |
| Lights .....                           | 24        |
| Ballast .....                          | 25        |
| Comfort .....                          | 26        |
| Driver Presets .....                   | 26        |
| <b>Main Settings Menu .....</b>        | <b>28</b> |
| User Settings.....                     | 29        |
| Engine Diagnostics .....               | 30        |
| GPS Utilities .....                    | 31        |
| System Information .....               | 35        |
| Ballast/Smartplate Settings .....      | 35        |
| PDM Diagnostics.....                   | 36        |
| <b>Troubleshooting.....</b>            | <b>38</b> |

## Product Information

The Supra Vision Touch 2016 display is designed for instrumentation and control on electronically controlled engines communicating via SAE J1939 and NMEA 2000. The display enables boat operators to view many different engine, ballast, transmission parameters and service codes and is a multi-functional tool that provides GPS tracking, a multimedia display, cruise control, and rider profiles. Included with this solution is the HV700 Touch unit.



## Care and Maintenance

General maintenance is not required; however, a soft cloth can be used for cleaning the units. Window cleaner or alcohol can also be used to clean the glass portion of the display. Do not use harsh or abrasive cleaners on the unit.

## Basic Navigation Features

All product features are easily accessed through Quick Access Keys, Touch Point commands and Menus.

### Quick Access Keys

A new screen can be accessed quickly by pressing one of the following Quick Access Keys:



### Touch Point Commands

Once the desired screen is accessed, navigation within the screen is controlled with Touch Point commands. They are executed by touching the screen in areas that are outlined with a highlighted bezel.

## Features

### Home Screen

The Gauges screen can be accessed by pressing the Home/Gauges  Quick Access Key.



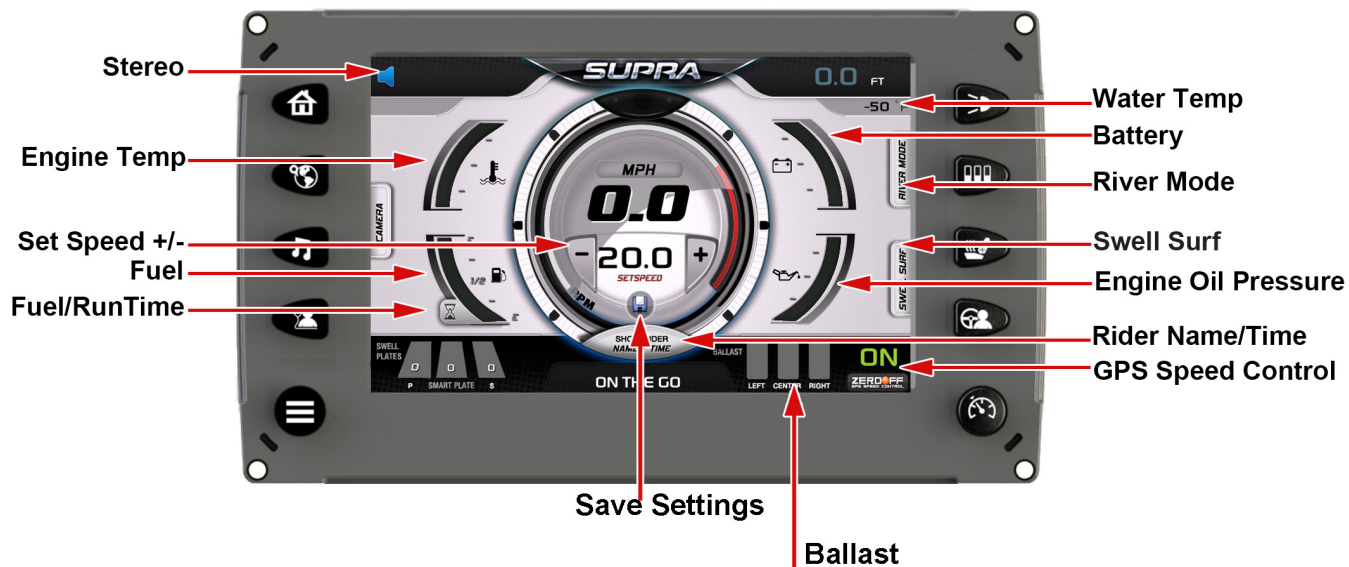
This screen shows the:

- Water Depth
- Water Temperature
- Engine Temperature
- Battery Voltage
- Speedometer/Setspeed
- Fuel Gauge
- Oil Gauge
- Ballast Levels
- Swell Plates/Smart Plate Position
- Rider Name/Time
- River Mode
- Swell Surf
- Save Current Settings (when ZeroOff™ is on)

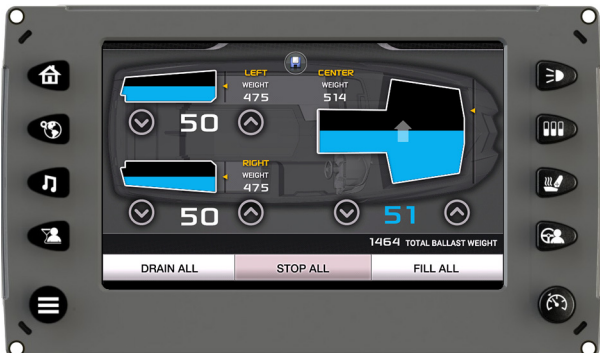
The cruise control can be turned ON or OFF from this screen by touching **[ZEROOFF]** located

in the lower right of the screen, or by pressing the  button.

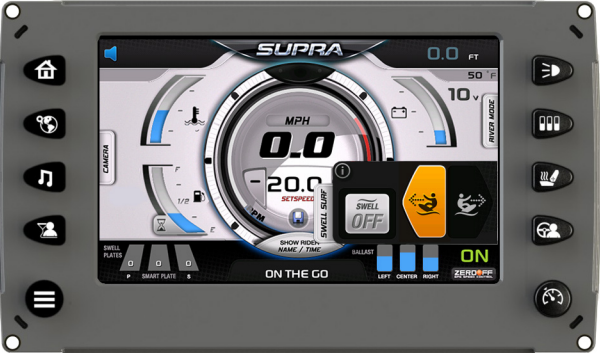
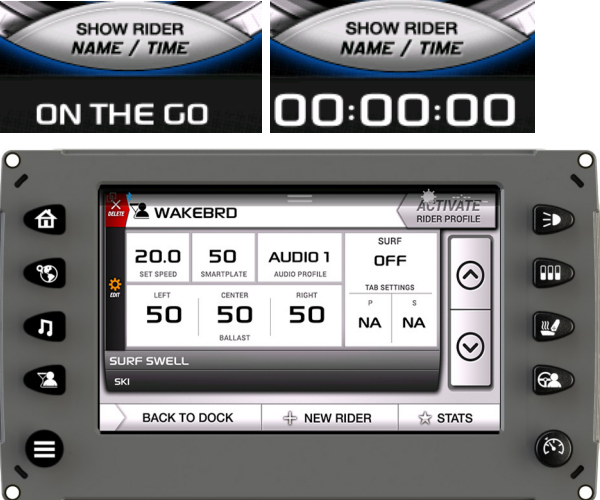
## Home Screen Touch Points



| Touch Point        | Description                                                                                                                                                                                     | Screen View |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Stereo</b>      | Opens the Stereo screen. Other multimedia options and video viewing screens are accessed from this screen. When held down for 2-3 seconds while on the home screen, the active stereo is muted. |             |
| <b>Engine Temp</b> | Displays the engine temperature when touched.                                                                                                                                                   |             |

| Touch Point             | Description                                                                                            | Screen View                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Set speed+/-</b>     | Interactive speed control adjustment by touching the + and – icons (GPS Speed Control <b>ON</b> mode). |    |
| <b>Fuel Level</b>       | Displays the fuel level in percent.                                                                    |   |
| <b>Fuel/Run Time</b>    | Displays an estimated engine run time using current fuel level.                                        |  |
| <b>Ballast Settings</b> | Displays the current ballast fill levels.                                                              |  |

| Touch Point         | Description                                                                                     | Screen View                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water Temp</b>   | Displays the current temperature of the water.                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Boat Battery</b> | Displays the battery voltage.                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>River Mode</b>   | Interactive pop-up including touch toggle from <b>ON</b> to <b>OFF</b> and River Flow settings. |  <p>River Mode is a user interface for estimating both upstream and downstream river current without the use of a paddle wheel. The River Flow UP/DN icon switches back and forth during the turns as you turn against or with the current. The river current estimate value will be added to (downstream) or subtracted from (upstream) the base speed set point and should deliver a reasonably consistent speed over the water. If River Mode is turned off, the set speed will track the normal set speed regardless of direction.</p> |

| Touch Point                        | Description                                                                                                                                                                                                                                                                                                                                                                                 | Screen View                                                                          |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p><b>Swell Surf</b></p>           | <p>Interactive pop-up including toggles for Swell On/Off, Barrel and Skim, Port and Starboard ballast settings.</p> <p>Use the directional icons to select either Port or Starboard. Use Profiles to make adjustments to the surf wave.</p> <p>Swell does not activate if Auto is active. Swell Surf will only engage when Cruise is on and your set speed is between 7 mph and 12 mph.</p> |    |
| <p><b>Engine Oil Pressure</b></p>  | <p>Displays the engine oil pressure.</p>                                                                                                                                                                                                                                                                                                                                                    |   |
| <p><b>Show Rider Name/Time</b></p> | <p>Interactive touch toggle from the riders name to time.</p> <p>When the name is touched, the Profiles page is displayed.</p>                                                                                                                                                                                                                                                              |  |

| Touch Point              | Description                                                                                               | Screen View                                                                        |
|--------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>GPS Speed Control</b> | Interactive touch toggle from <b>ON</b> to <b>OFF</b> mode.<br><br>(Speed adjustment with Set speed +/-.) |  |

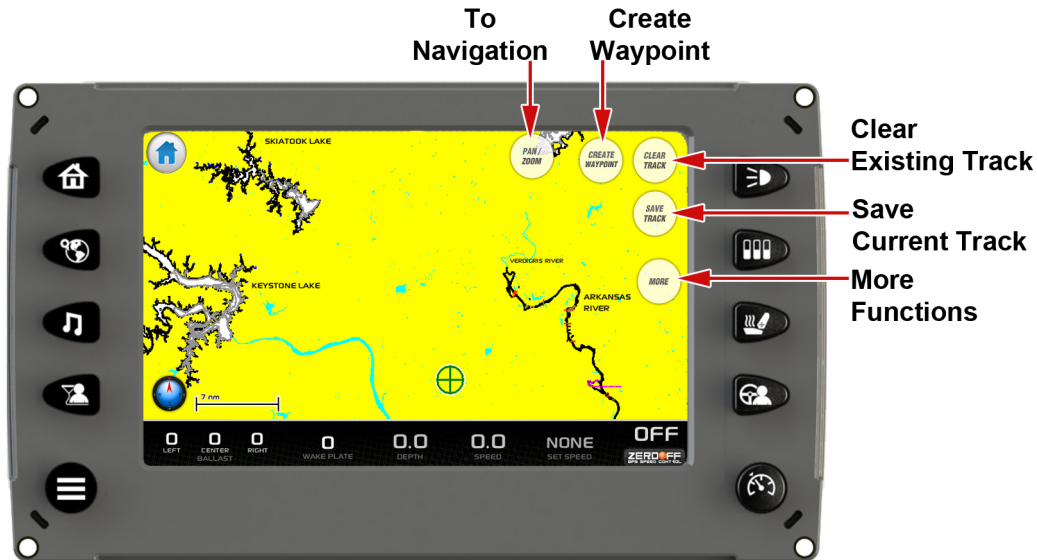
## GPS

The GPS screen can be accessed by pressing the GPS  Quick Access Key.

The functions on the GPS are handled through touch points on the screen. The touch points change depending upon which view of the screen is showing.

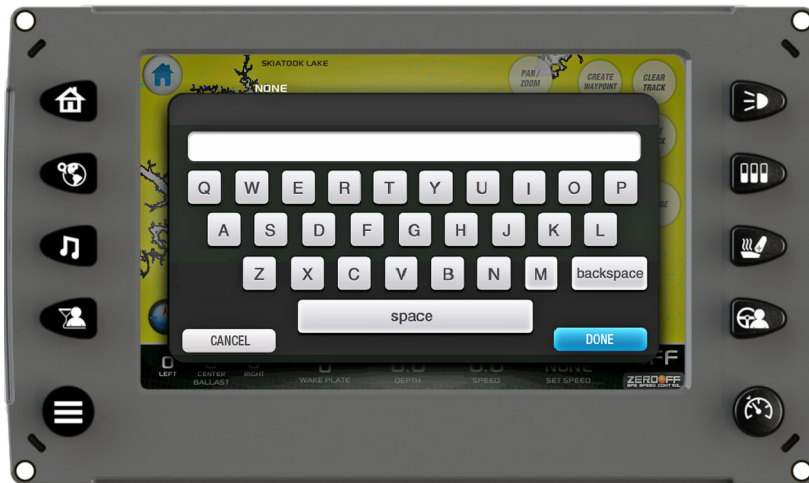


To see more options, touch **[TRACKING]**. The Tracking Menu is displayed on the screen.



Touch **[PAN/ZOOM]** to return to the previous view.

Touch **[CREATE WAYPOINT]** to add a waypoint to the map. A keypad is displayed to type the name (10 alpha character limit). When finished typing the name touch **[DONE]**.

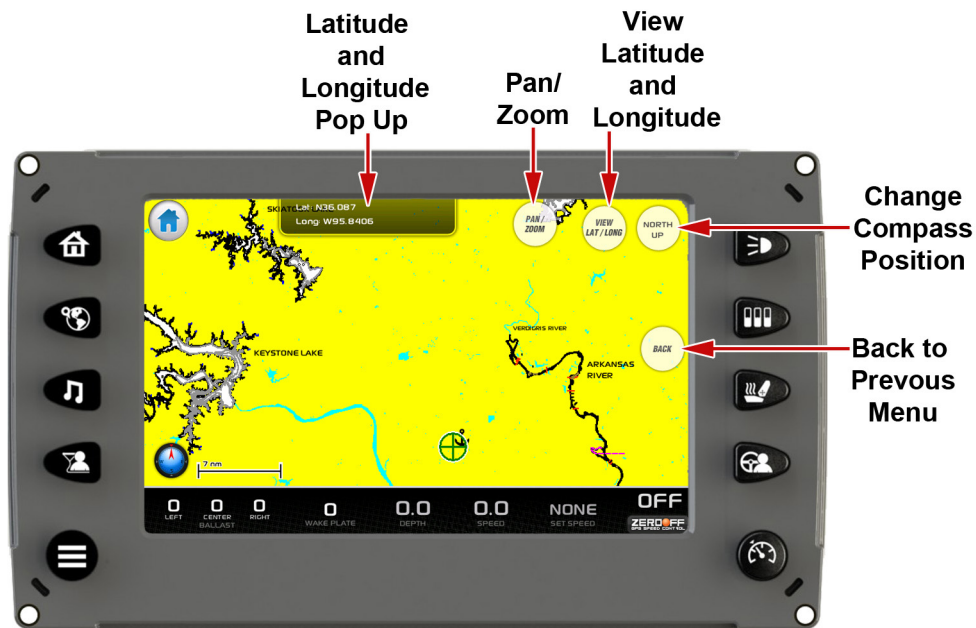


The waypoint is now displayed on the map represented by an anchor icon. This anchor icon can be changed to another icon in the Waypoint Manager (for more information on the Waypoint Manager, see GPS Settings under the Settings Menu).

Touch **[CLEAR TRACK]** to clear currently recording track. This action will restart the track recording from the current position of the boat.

Touch **[SAVE TRACK]** to save the currently recorded track. This action will save the currently recorded track from where the recording started to the current position and restart the track recording from the current position of the boat.

Touch **[MORE]** to view latitude and longitude of the current position of the boat and change the compass to desired position (choices are North up or Course up).



## Media

The Stereo screen can be accessed by pressing the Stereo  Quick Access Key.



## Stereo Display - Touch Commands

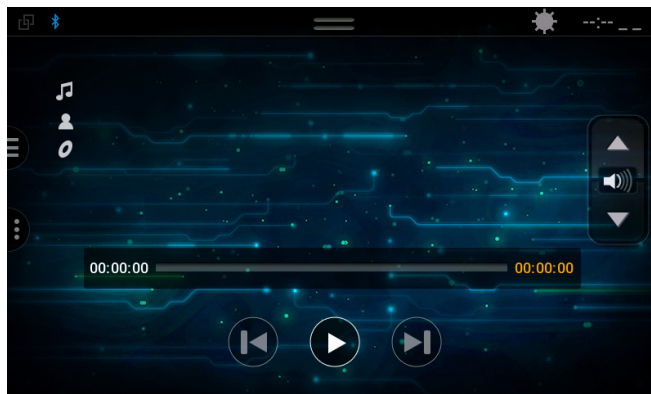
| Touch Point                                                                         | Description                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Volume :</b> Press  to increase the volume. Press  to decrease the volume.                                      |
|  | <b>Previous/Tune:</b> Press  to go to the closest saved station to the left. Press  to tune the station to the left. |

| Touch Point                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Next/Tune:</b> Press  to go to the closest saved station to the right. Press  to tune the station to the right.                                                                                                    |
|    | <b>Station Location:</b> This is a visual representation of the location on the dial for the chosen station. Swipe your finger left or right on this dial to turn it.                                                                                                                                                                                                                   |
|    | <b>Scan:</b> Press this button to scan to stations that have the strongest signal strengths.                                                                                                                                                                                                                                                                                            |
|    | <b>Band Selector:</b> Choose between FM, AM or Weather.                                                                                                                                                                                                                                                                                                                                 |
|    | <b>Save to Favorites:</b> Touch this button to save the displayed station in your favorite stations.                                                                                                                                                                                                                                                                                    |
|    | <b>Preset Stations:</b> This list contains 6 of the previously saved favorite stations.                                                                                                                                                                                                                                                                                                 |
|   | <b>Favorites List</b> – Touch to alternate between List A and List B. This provides 12 pre-saved favorite stations.                                                                                                                                                                                                                                                                     |
|  | <b>Tune Mode</b> – Choosing FREQ will allow the scanning of all stations on the dial. Choosing PRESET will only scan the saved favorite stations on the dial.                                                                                                                                                                                                                           |
|  | <b>Channel Classifications</b> – Touch this to display a list to choose only stations that are classified as one of the following: All, News, Information, Sports, Talk, Rock, Classic Rock, Adult Hits, Soft Rock, Top 40, Country, Oldies, Soft, Nostalgia, Jazz, Classical, R&B, Soft R&B, Religious Music, Religious Talk, Public, College, Spanish Talk, Spanish Music or Hip Hop. |
|  | <b>Complete Preset List</b> – Pull down this list for a total of 30 preset positions to save your favorite stations. To delete a station, touch the X and this will display:<br> Click the checkmark for Yes, or the X for No.                                                                       |

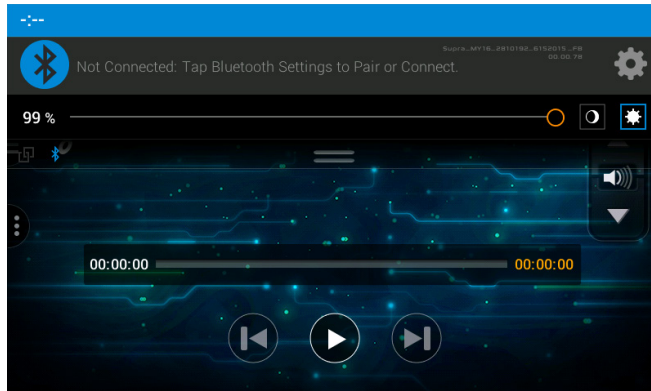
| Touch Point                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------|------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|
|    | <b>List – Touch this point to expand the following list of icons:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     | <table><tr><th>Icon</th><th>Description</th></tr><tr><td></td><td>Switches to the FM band.</td></tr><tr><td></td><td>Switches to the AM band.</td></tr><tr><td></td><td>Not available at this time.</td></tr><tr><td></td><td>Displays the Bluetooth utility.</td></tr><tr><td></td><td>Displays the Weather band.</td></tr><tr><td></td><td>Displays the Auxiliary Input display to choose between three channels.</td></tr></table>                                                                                                                   | Icon                                         | Description |   | Switches to the FM band.    |    | Switches to the AM band.                     |    | Not available at this time. |    | Displays the Bluetooth utility.                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Displays the Weather band. |  | Displays the Auxiliary Input display to choose between three channels. |
|                                                                                     | Icon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Description                                  |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Switches to the FM band.                     |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Switches to the AM band.                     |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not available at this time.                  |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Displays the Bluetooth utility.              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Displays the Weather band.                   |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|    | Displays the Auxiliary Input display to choose between three channels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|  | <b>List – Touch this point to display a list of the following icons:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     | <table><tr><th>Icon</th><th>Description</th></tr><tr><td></td><td>Displays the Settings menu.</td></tr><tr><td></td><td>Displays the Sound Control (Equalizer) menu.</td></tr><tr><td></td><td>Not used at this time.</td></tr><tr><td></td><td>Provides a way to update the firmware. This box will appear:<br/><div><p><i>Insert a USB flashdrive with the update file. (firmware.hex)</i></p><div></div></div><p>Touch the checkmark when the flashdrive is in place to update the system. Touch the X to abort.</p></td></tr></table> | Icon                                         | Description |  | Displays the Settings menu. |  | Displays the Sound Control (Equalizer) menu. |  | Not used at this time.      |  | Provides a way to update the firmware. This box will appear:<br><div><p><i>Insert a USB flashdrive with the update file. (firmware.hex)</i></p><div></div></div> <p>Touch the checkmark when the flashdrive is in place to update the system. Touch the X to abort.</p> |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     | Icon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Description                                  |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Displays the Settings menu.                  |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Displays the Sound Control (Equalizer) menu. |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|  | Not used at this time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |
|  | Provides a way to update the firmware. This box will appear:<br><div><p><i>Insert a USB flashdrive with the update file. (firmware.hex)</i></p><div></div></div> <p>Touch the checkmark when the flashdrive is in place to update the system. Touch the X to abort.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |             |                                                                                    |                             |                                                                                     |                                              |                                                                                     |                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                            |                                                                                   |                                                                        |

## Bluetooth

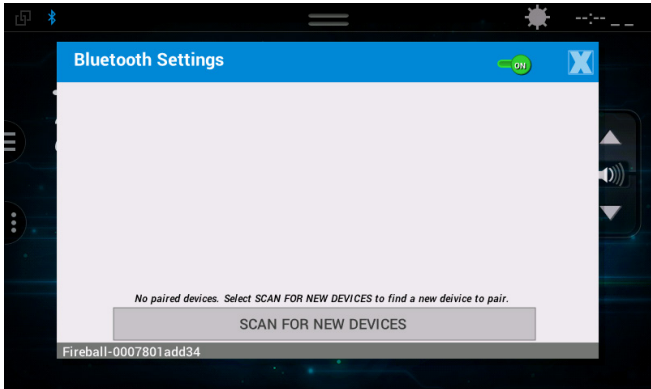
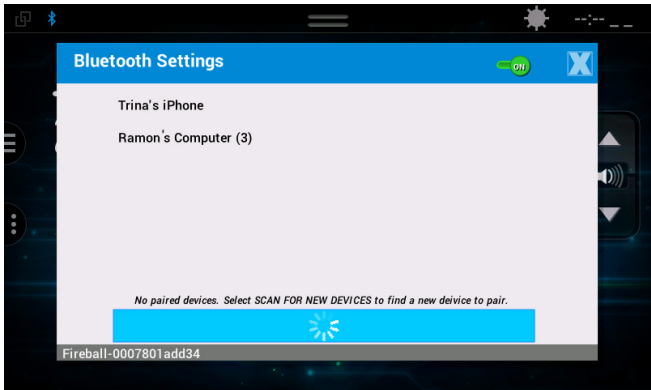
To display the Bluetooth utility, on the left side of the screen, touch  then . The following screen will display:

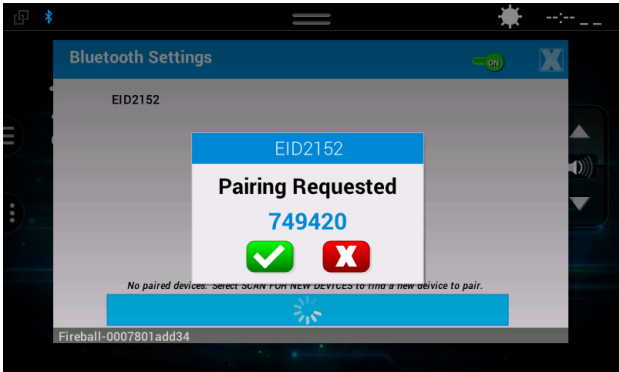
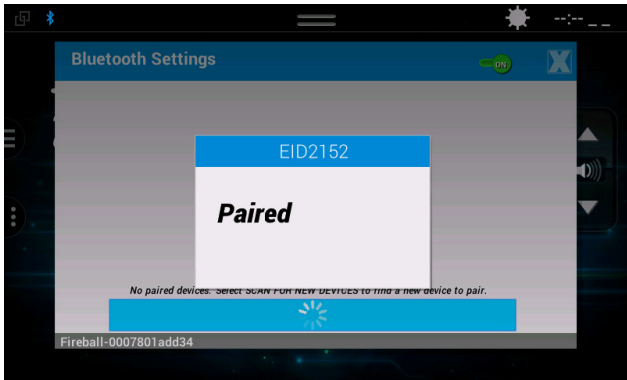


Touch  and the following screen will display:



Follow these steps to connect to Bluetooth:

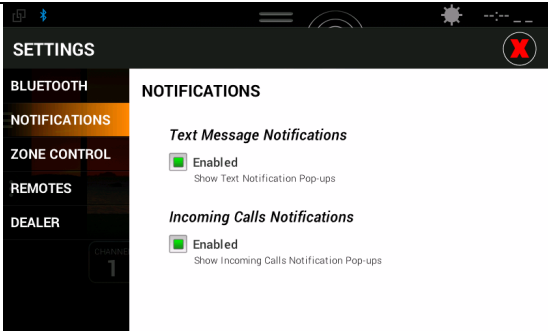
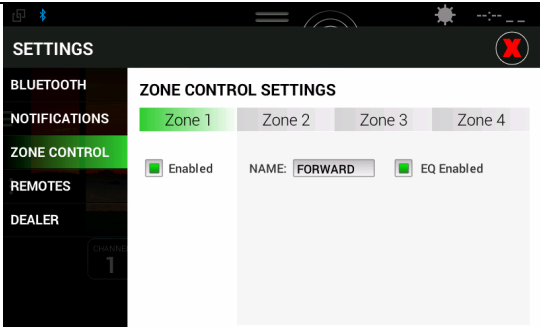
| Step | Action                                                                                                                                                                                                                                 |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p>Touch the Settings icon . The following screen will appear:</p>  |
| 2    | <p>Ensure the green slider at the top right is turned ON. If not, slide it to the right.</p>                                                                                                                                           |
| 3    | <p>Touch Scan for New Devices to discover available Bluetooth compatible sources. If sources are found, they will appear on the screen:</p>        |

| Step | Action                                                                                                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4    | <p>Touch the device to which the Supra will be paired. The following screen will appear:</p>  <p>Touch the green check mark to pair, or the red X to cancel. If successful, the following screen will appear:</p>  |
| 5    | <p>Once paired, the source's media files will be viewable and playable on the first screen presented in this section.</p>                                                                                                                                                                                                                                                               |

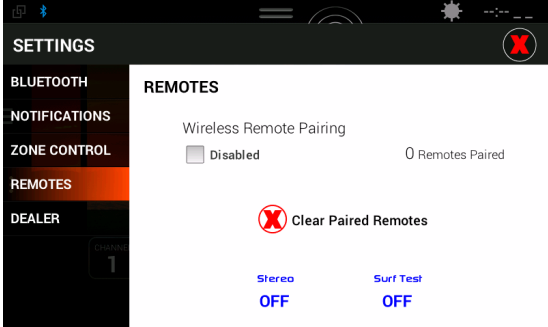
## Settings

The Settings section allows the adjustment of the following selections:

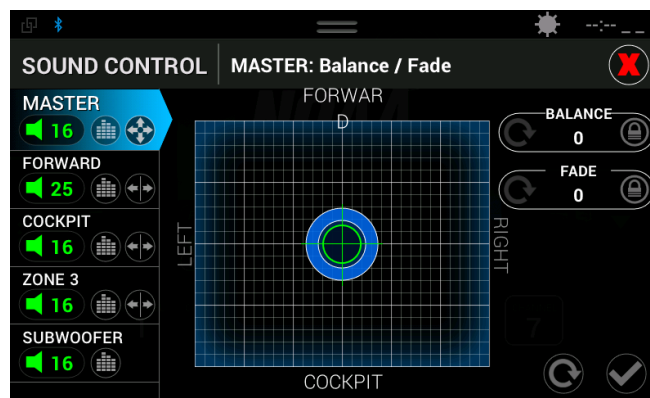
- Bluetooth
- Notifications
- Zone Control
- Remotes
- Dealer

| Section       | Description                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bluetooth     | Not available at this time                                                                                                                                                                                                                                                                                                                                                                            |
| Notifications |  <p>To enable popup notifications to appear on the screen from a connected Bluetooth phone's text messages, touch the Enabled box for that selection.</p> <p>To enable popup notifications to appear on the screen from a connected Bluetooth phone's incoming calls, touch the Enabled box for that selection.</p> |
| Zone Control  |  <p>To enable Zone control (sounds) to be heard in any of the zones listed on the screen, touch the preferred Zone, then touch Enabled.</p> <p>To enable the Equalizer for all of the zones except Zone 4 (Subwoofer), touch the preferred Zone, then touch EQ Enabled.</p>                                        |

Continued on next page

| Section | Description                                                                                                                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remotes |  <p>To enable wireless remote pairing, touch Disabled. Then press any key on the remote to pair.</p> <p>Touch the red X to clear any paired remotes.</p> |
| Dealer  | This screen simply displays the IP Address.                                                                                                                                                                                                |

## Sound Control (Equalizer)

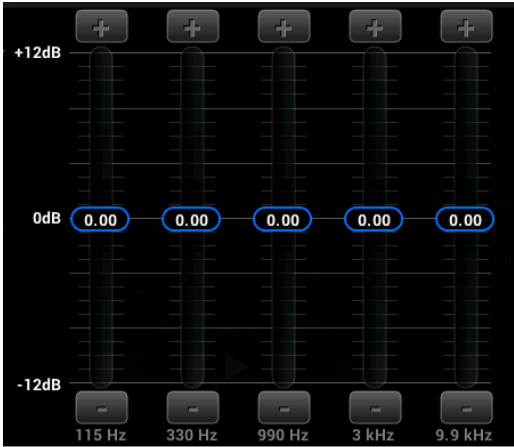
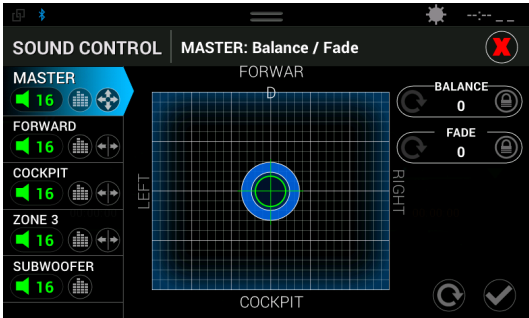


The Equalizer is available to control the sounds in five different areas:

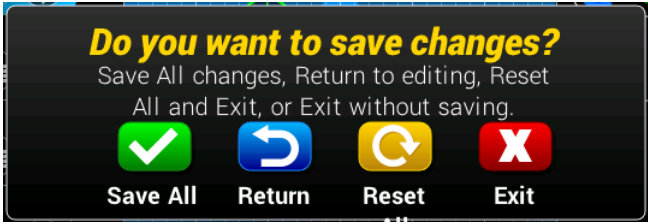
- Master
- Forward
- Cockpit
- Zone 3
- Subwoofer

To control the sounds for the Master, touch Master and the blue background will appear as shown below.

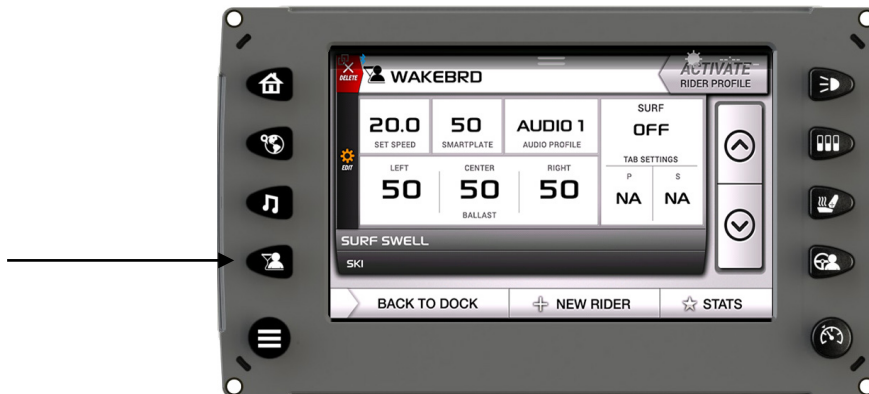


| Touch Point                                                                         | Description                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Volume Control:</b> To turn off the volume in all areas, touch this and it becomes a red X. To adjust the volume for the Master, touch the + or – of this area:</p>         |
|    | <p><b>Equalizer:</b> Touching this area displays the Equalizer controls:</p>  <p>Touch the + or – OR slide your finger in the appropriate direction to adjust the levels.</p>    |
|  | <p><b>Balance/Fade:</b> Touching this area displays the Balance/Fade controls:</p>  <p>Slide your finger to adjust the blue circle on the screen to the preferred location.</p> |

**NOTE:** Balance and Fade for the Master allows customization for Left, Right, Forward and Cockpit. Balance and Fade for Forward, Cockpit and Zone 3 are only Left and Right. The Subwoofer does not utilize a Balance and Fade function.

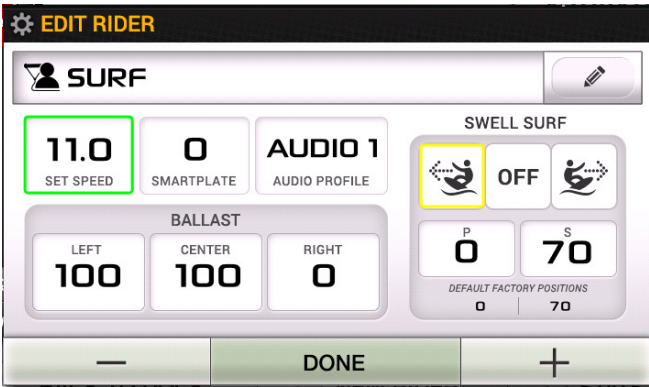
| Touch Point                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Reset / Confirm:</b> Touch the blue circle to discard any changes. Touch the green checkmark to confirm changes:</p> <p>If the red X is pressed before accepting the changes, the following screen will appear:</p>  <p>Press Save All to save any changes, Return to make additional changes, Reset to return all controls back to their previous state, or Exit to delete any changes.</p> |

## Profiles

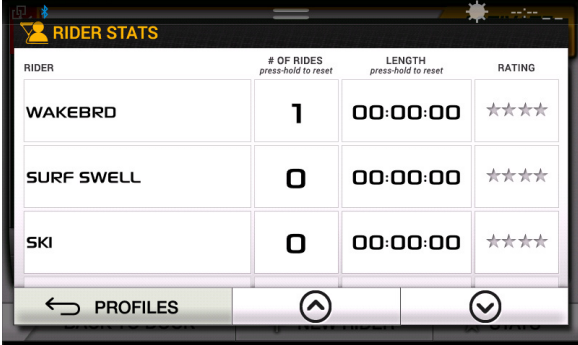


| Touch Point                                                                         | Description                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|  | <p>Deletes (after confirmation) the currently displayed Rider Profile.</p> |

Continued on next page

| Touch Point                                                                         | Description                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Activates the currently displayed Rider's profile, and changes the boat settings to align with the displayed settings.                                                                                                                      |
|    | <p>Displays the Edit Rider screen:</p>  <p>Touch each field to be edited, and adjust the settings with the – and + buttons. Touch Done when complete.</p> |
|   | Rotates through the saved profiles.                                                                                                                                                                                                         |
|  | Returns back to the Home screen.                                                                                                                                                                                                            |
|  | Displays a keyboard to type the new rider's name. Touch Done, and then Edit to adjust the settings.                                                                                                                                         |

Continued on next page

| Touch Point                                                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>STATS</b> | <p>Displays the Rider Statistics screen:</p>  <p>To reset the number of rides, press and hold and the number will reset to 0.</p> <p>To reset the length, press and hold and the time will reset to 00:00:00.</p> <p>To provide a rating, touch the stars for each desired star to be lit up.</p> <p>Touch Profiles to return to the Profiles screen.</p> <p>Touch the UP and DN arrows to view other statistics.</p> |

## Lights

The Lights screen can be accessed by pressing the Lights  Quick Access Key. On this screen the following lights can be turned on and off:

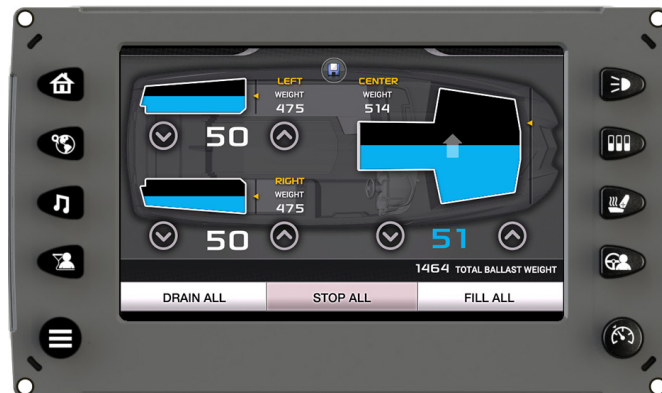
- Navigation Lights
- Anchor Lights
- Storage Lights
- Dome Lights
- Docking Lights
- Tower Lights
- Floor Lights
- Mid-Level Lights
- Speaker Lights
- Underwater Lights/Strobe
- All Off/All On



**NOTE:** If the cell is gray, this indicates the lights are OFF. If the cell is green, this indicates the lights are ON.

## Ballast

The Ballast screen can be accessed by pressing the Ballast  Quick Access Key. This screen displays the current state of the ballasts and is interactive for immediate settings.



To adjust the Ballast settings slide finger up the tank to the desired level or tap the **UP** or **DOWN** arrows below the tank. As an example, the illustration shows the Center tank filling to achieve 51 percent and the left and right ballasts have achieved 50 percent tank capacity.

The following functions can also be accomplished from this screen:

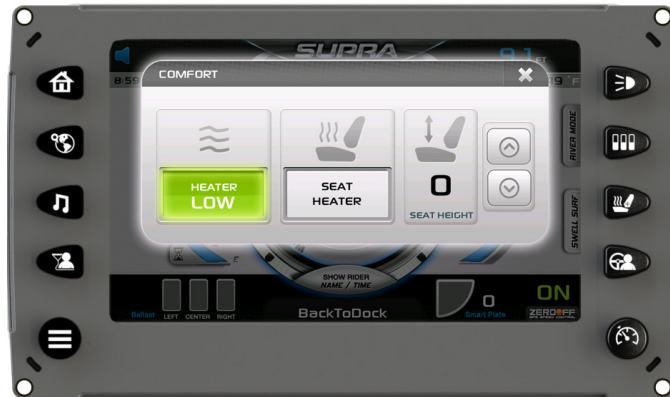
- **FILL ALL** – touch to fill all the ballasts
- **DRAIN ALL** – touch to drain all the ballasts
- **STOP ALL** – touch to stop all filling or draining activity
- **SAVE** – touch to save the current settings to the current profile or a new profile
- **X** – touch to exit the current screen

## Comfort

The Comfort screen can be accessed by pressing the Comfort  Quick Access Key. On the Comfort screen, touch a cell to activate. Touch it again to change the setting or use the arrows. The following comfort settings can be made if the option is installed on your boat package:

- Heater – HIGH/LOW/OFF
- Seat Heater – ON/OFF
- Seat Height – UP/DOWN

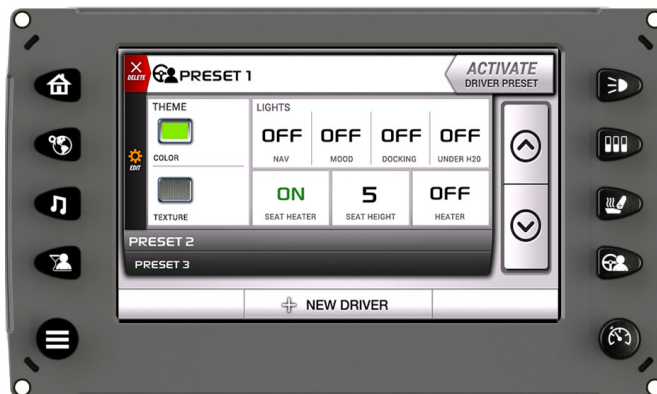
These settings can also be set for specific boat drivers through the driver presets.



**NOTE:** If the cell is gray, this indicates the settings are OFF. If the cell is green, this indicates the settings are ON.

## Driver Presets

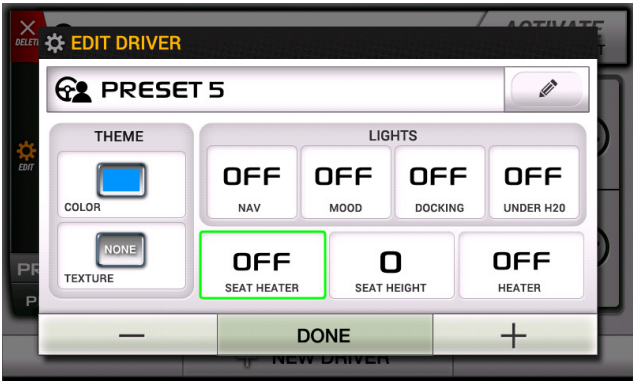
The Driver Presets screen can be accessed by pressing the Driver Presets  Quick Access Key. This feature displays preferences for the boat drivers and is interactive for needed changes.



# Setting up Driver's Preferences

To enter a driver's preset, press the Driver Presets  Quick Access Key.

If you need additional Driver Presets, you can add them to the list by touching **New Driver**.



Follow the directions below to set the Driver's Presets.

| Step | Action                                                                                                                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Touch Edit, then  to name the driver.                      |
| 2    | Touch Theme, and if a different color is desired, utilize the + and – buttons to scroll through the available colors.                        |
| 3    | Touch Texture, and if a different texture is desired, utilize the + and – buttons to scroll through the available textures.                  |
| 4    | To set a preference on lights, seat heater or heater for this driver, touch the desired square and utilize the + key to turn them On or Off. |
| 5    | To adjust the seat height, touch that square and utilize the + key to adjust.                                                                |
| 6    | Touch Done when complete.                                                                                                                    |

## Delete Driver Preset

To delete a Driver Preset, press the Driver Preset  Quick Access Key. Touch



beside the desired preset to delete, and confirm the deletion.

## Main Settings Menu

The Main Menu screen can be accessed by pressing the Main Menu  Quick Access Key. This screen displays engine statistics and interactive search, diagnostics and settings.



**NOTE:** Some settings require a dealer code for access.

| Function                    | Description/Action                                                                                                                                             |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| User Settings               | Allows you to customize the display options for ambient light and brightness, set US or metric units and other settings.                                       |
| Engine Diagnostics          | Displays a list of engine fault codes and descriptions; on some engines, corrective action will be shown.                                                      |
| GPS Utilities               | Contains options to set up track and position, chart and time and waypoint manager. Also displays satellite status.                                            |
| System Information          | Provides information about the software version.                                                                                                               |
| Ballast/Smartplate Settings | Displays ballast times and calibration, smart plate settings and swell assisted settings.                                                                      |
| Dealer Settings             | Contains the ability to change the boat model, radio option and the appearance of audio options within particular boat zones.                                  |
| PDM Diagnostics             | Displays short circuits, open circuit, over current, in/out of range and faults within the system outputs, switch inputs, analog inputs and CAN communication. |

# User Settings

On the Main Menu screen, touch **[USER SETTINGS]** to access the User Settings screen. The User can set viewing preferences for the display.



To edit the settings, touch the field to the right of the label or touch  or  arrows to adjust the settings. Touch **[Back]** to save the settings and return to the Main Menu screen.

| Function           | Description/Action                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auto Backlight     | The choices are: Enable or Disable.<br><b>NOTE:</b> Enabling the Auto Backlight will reduce the screen brightness when the Nav Light is ON.                                                                                                                                                                                                                                                 |
| Brightness         | Touch and slide finger along the brightness bar to adjust the setting.                                                                                                                                                                                                                                                                                                                      |
| Color Scheme       | Touch one of the colors to change the color scheme of the display.                                                                                                                                                                                                                                                                                                                          |
| Background Texture | Touch one of the background textures to change the texture of the display.                                                                                                                                                                                                                                                                                                                  |
| Units              | Pull down the arrow and choose either US STD or Metric.                                                                                                                                                                                                                                                                                                                                     |
| Shutdown Time      | Tap  or  to adjust the setting.                                                                                                                                                                                       |
| Audio Intensity    | Tap  or  to adjust the setting.                                                                                                                                                                                       |
| Minimum Depth      | This allows you to choose a minimum depth (measured from bottom of keel) to give an alarm if the vessel comes into a minimum depth situation.<br>Tap  or  to adjust the setting. Choosing zero turns this option OFF. |

## Engine Diagnostics

On the Main Menu screen, touch **[Engine Diagnostics]** to access the Engine Diagnostics screen. When choosing this selection, the display queries the engine's ECU and displays feedback on any diagnostic codes that have been activated and stored in the ECU for service needs.



| Function                                 | Description/Action                                                                                                                                                                                           |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Get Faults                               | Touch <b>[GET FAULTS]</b> to show the number of active faults and the fault number currently being displayed.                                                                                                |
| Arrows                                   | The Left and Right arrows at the top of the page scroll through messages.                                                                                                                                    |
| Diagnostic Message and Description Field | Most common SPNs and FMIs have text for the description stored in the display. If there is no text, then this SPN and FMI must be defined by referring to the engine manufacturer or the SAE J1939 standard. |
| Source                                   | Indicates the source of the message.                                                                                                                                                                         |
| SPN                                      | Suspect Parameter Number - fault code<br>If not translated into text by the display, see the engine manufacturer's literature for the definition of the SPN number.                                          |
| FMI                                      | Failure Mode Indicator - fault code<br>The FMI is defined by SAE J1939. If not translated into text, see the SAE standard or the engine manufacturer's literature.                                           |
| Count                                    | Number of messages.                                                                                                                                                                                          |
| ENG Hours                                | Number of in-use engine hours.                                                                                                                                                                               |
| Corrective Action                        | Suggested action for correction.                                                                                                                                                                             |

## GPS Utilities

On the Main Menu screen, touch **[GPS Utilities]** to access the GPS Utilities screen. The GPS Utilities includes the following:

- Depth and Position
- Waypoint Manager
- Chart and Time
- Track Manager
- Satellite Status



## Depth and Position Settings

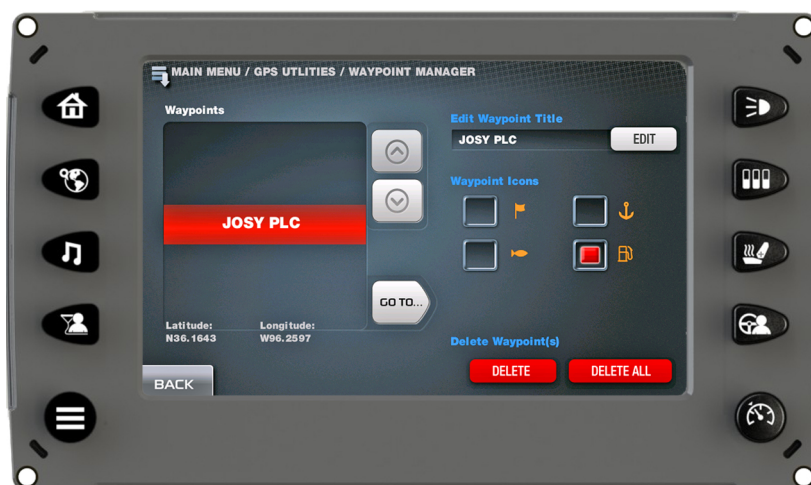
On the GPS Utilities screen, touch **[Depth and Position]** to access the Depth and Position screen. This feature allows you to define the amount of detail to display for longitude and latitude information on the GPS map and depth display.



## Waypoint Manager

On the GPS Utilities screen, touch **[Waypoint Manager]** to access the Waypoint Manager screen.

Waypoints allow you to mark specific locations by latitude and longitude. Once the waypoints are established, the Waypoint Manager allows you to associate an icon with them for identification. You can delete a single waypoint by using the **[Delete]** key or all of them at once with **[Delete All]**. Pressing the **[Go To WPT]** key displays the GPS screen containing the currently highlighted waypoint.



| Function       | Description/Action                                                                                                                                                                       |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waypoints      | Displays a list of existing waypoints that have been set. Use the <b>[Up]</b> and <b>[Down]</b> keys to highlight the desired waypoint.                                                  |
| Waypoint Title | Edit the waypoint title.                                                                                                                                                                 |
| Waypoint Icon  | Assign one of four different icons to any of the waypoints listed.                                                                                                                       |
| Go To...       | Displays latitude and longitude values for the currently highlighted waypoint on the list. When touched, it will jump to the maps application and the location of the selected waypoint. |
| Delete         | Delete a single waypoint.                                                                                                                                                                |
| Delete All     | Delete all waypoints at once.                                                                                                                                                            |

# Chart and Time Setup

On the GPS Utilities screen, touch **[Chart and Time Setup]** to access the Chart and Time Setup screen. This menu option allows you to setup viewing options for the GPS Display.

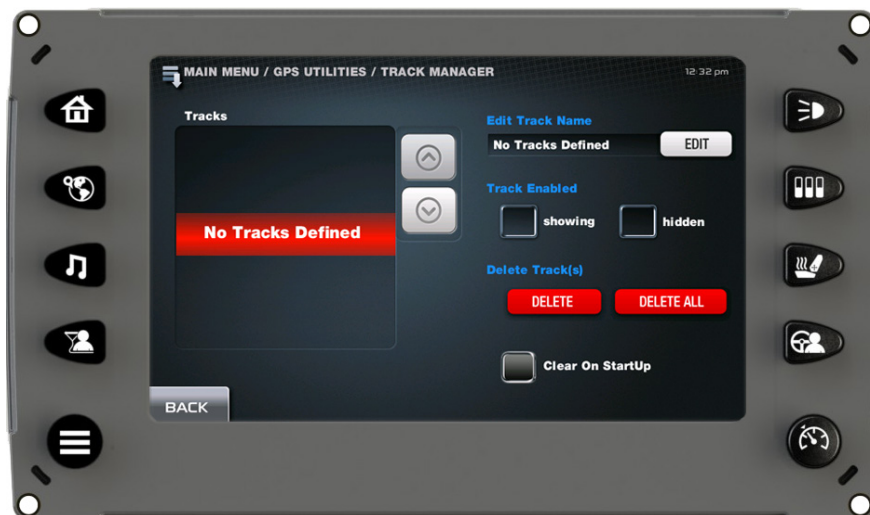


| Function               | Description/Action                                                                                                                                                                               |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chart Setup Parameters | Use the <b>[Plus/Minus]</b> soft keys to select the information you want displayed on the GPS screen.                                                                                            |
| Time Setup Parameters  | Select correct time zone and clock mode for either 12-hour or 24-hour time formats. You can also enable DST (Daylight Saving Time) by using the <b>[Plus/Minus]</b> soft keys to select the box. |

## Track Manager

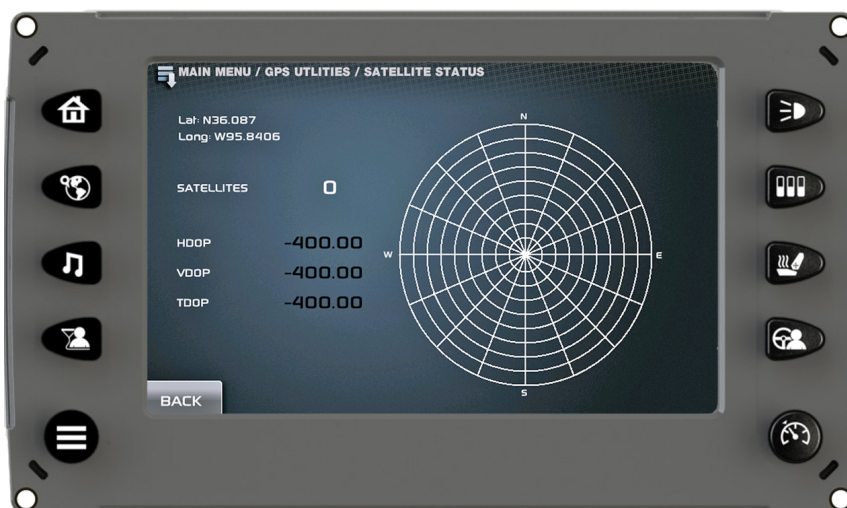
On the GPS Utilities screen, touch **[Track Manager]** to access the Track Manager screen. Multiple tracks for displaying on the GPS map can be set up. The Track Manager allows you to select tracks to show on the map or hide a map you are not currently using. You may **[Delete]** one track or **[Delete All]** tracks at once.

Select **[Clear on Startup]** to erase any non-saved tracks.



## Satellite Status

On the GPS Utilities screen, touch **[Satellite Status]** to access the Satellite Status screen. This screen is an information-only screen that displays the location of detectable satellites.



## System Information

---

On the Main Menu screen, touch **[System Info]** to access the System Information screen. This information-only screen provides the following:

- Application version and part number
- Operating system version and part number
- Bootloader version and part number
- Software version
- PDM Software Version Address(es)

## Ballast/Smartplate Settings

---

On the Main Menu screen, touch **[Ballast/Smartplate Settings]** to access the Ballast/Smartplate Settings screen. This screen provides default fill times for ballasts and default settings for the Smartplate.

To access the edit points of the Ballast and Smartplate settings, with the cell highlighted, touch the **[Up]** or **[Down]** arrows to change the setting.

**NOTE:** The **[Crossover Point]** defaults to 50 percent of your set speed. This is the point at which the Smartplate will be automatically driven to the active profile set point. If no set point is active, the Smartplate will be driven to the **[Smartplate Up]** setting (default 50 percent).

The **[Smartplate Down]** setting (default 100 percent) is the position that the Smartplate is driven to below the crossover setting.

Having the Smartplate deployed to 100 percent when the boat is at rest and then automatically retracting to the Smartplate set point at the crossover is what helps the boat keep the bow down and on plane during acceleration.



If additional time is required to empty the Ballast tanks, add percentage to the **[Ballast Drain Time Adder]** to increase the drain time. Or set the **[Ballast Drain Time Adder]** to 0 percent for no additional time.

The **[Ballast Calibration]** normally is not changed.

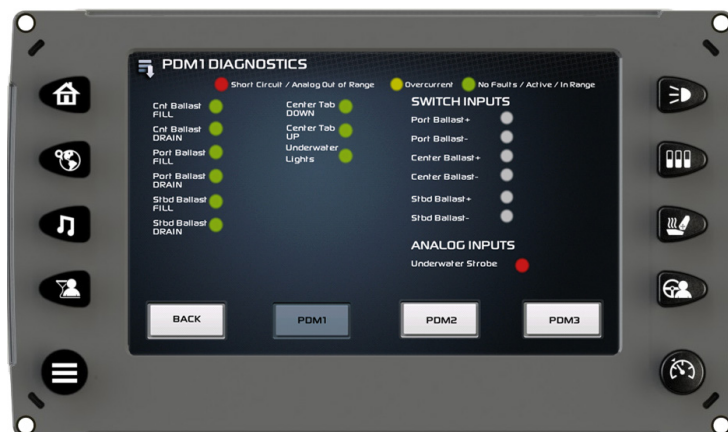
The **[Ballast Calibration]** function recalibrates the ballast level displayed to read Full (100 percent) or Empty (0 percent). The Ballast display levels are based on time to level calculations.

For example: The driver has filled the ballasts to Full and then installed a new version of software. This new version of software would default the Ballast Levels back to Empty (0 percent). Since the driver knows that the boat has Full ballasts, the driver can use this calibration feature to set the display level to Full (100 percent).

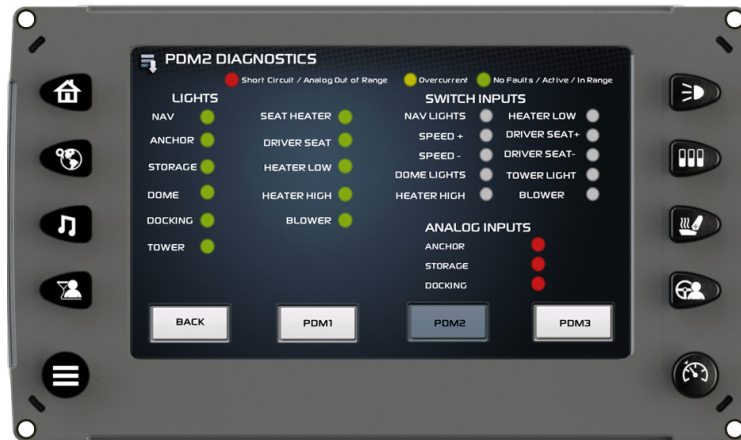
## PDM Diagnostics

---

On the main Menu screen, touch **[PDM Diagnostics]** to access the PDM Diagnostics screen. The screen displays short circuits, open circuit, over current, in/out of range and faults within the system outputs, switch inputs, analog inputs and CAN communication.



Touch the **[PDM2]** or **[PDM3]** touch command to view alternate screens. Touch the **[Back]** Touch Command to return to the main menu.



### General Troubleshooting Guide

#### **Display appears not to work or doesn't come ON.**

1. Display could be in *sleep* mode. Touch a key on the keypad to activate the display.
2. Check for loose connections at battery and display unit.
3. Check for reversed polarity on the power connections.
4. Verify battery has a minimum voltage of 6 Volts.

#### **Display resets or goes OFF when starting engine.**

1. Check display supply wires are connected properly to battery.
2. Verify battery is charged properly.
3. Check battery for efficient starter current.

#### **Display has no backlight.**

Contact your Supra service center.

#### **Display has no keypad backlight.**

Contact your Supra service center.