

Supra VISION TOUCH 2017



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.

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Product Information

The Supra Vision Touch 2017 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 multifunctional 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:

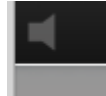
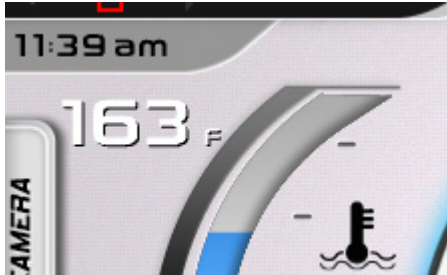
- Water Depth
- Water Temperature
- Engine Temperature
- Battery Voltage
- Speedometer/Setspeed
- Fuel Gauge
- Oil Gauge
- Ballast Levels
- Swell Plates/Smart Plate Position
- Rider Name/Time
- River Mode
- Swell Surf
- Save Current Settings (when ZeroOff® is on)

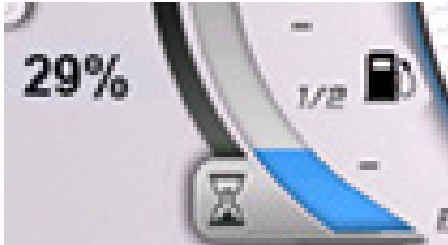
The cruise control can be turned ON or OFF from this screen by touching **[ZERO OFF]** located

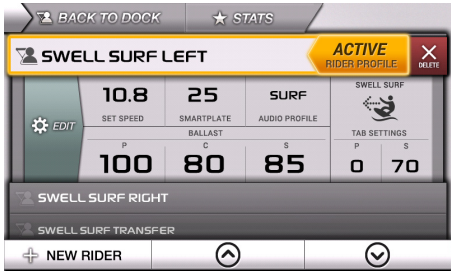
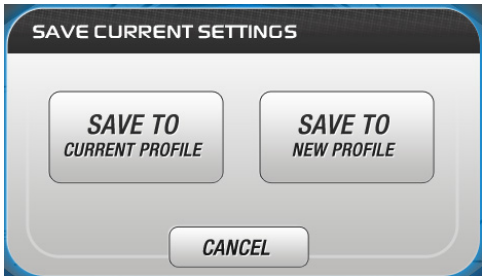
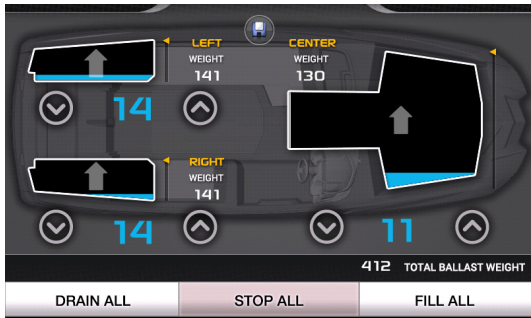
in the lower right of the screen or by pressing the  button.

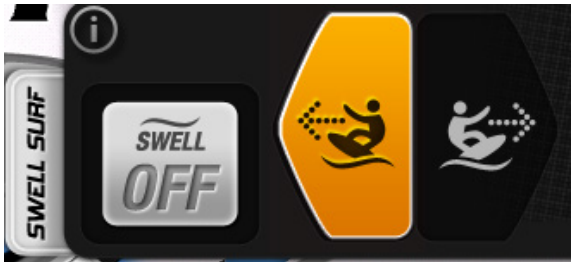
Home Screen Touch Points



Touch Point	Description	Screen View
1 – Stereo	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.	
2 – Engine Temp	Displays the engine temperature when touched and held.	

Touch Point	Description	Screen View
3 – Set speed+/-	Interactive speed control adjustment by touching the + and – icons (GPS Speed Control ON mode).	
4 – Fuel Level	Displays the fuel level in percent when touched and held.	
5 – Fuel/Run Time	Displays an estimated engine run time using current fuel level when touched and held.	
6 – Autowake	Autowake will control the ballast to attempt to achieve and maintain a set pitch and roll (determined by the rider profile and the currently selected surf side).	
7 – Camera	Activates the camera to view the current rider in action.	

Touch Point	Description	Screen View
8 – Rider Profile	Touch when the name (not the time) is displayed, and the rider profile page will appear to show preferred settings for that rider.	
9 – Show Rider Name / Time	Interactive touch toggles from the rider's name to the rider's time. When the name is touched, the Profiles page is displayed.	
10 – Save Settings	Allows the saving of the current settings to the current profile or a new profile.	
11 – Ballast Settings	Displays the current ballast fill levels.	
12 – GPS Speed Control	Interactive touch toggles from ON to OFF mode. (Speed adjustment with Set speed +/-.)	

Touch Point	Description	Screen View
13 – Engine Oil Pressure	Displays the engine oil pressure when touched and held.	
14 – Swell Surf	Interactive pop-up including toggles for Swell On/Off, Port and Starboard ballast settings. Use the directional icons to select either Port or Starboard. Use Profiles to make adjustments to the surf wave.	 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.
15 – Boat Battery	Displays the battery voltage when touched and held.	

Touch Point	Description	Screen View
16 – River Mode	Interactive touch pop-up toggles from ON to OFF and automatic River Flow settings.	 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.
17 – Water Temp	Displays the current temperature of the water when touched and held.	

Autowake

Autowake is a system that will manipulate the ballast levels in order to achieve and maintain the best possible wake for surfing and wakeboarding. Using an inclinometer (a device that measures angle of pitch and roll), the boat will orient itself for the best boating experience.

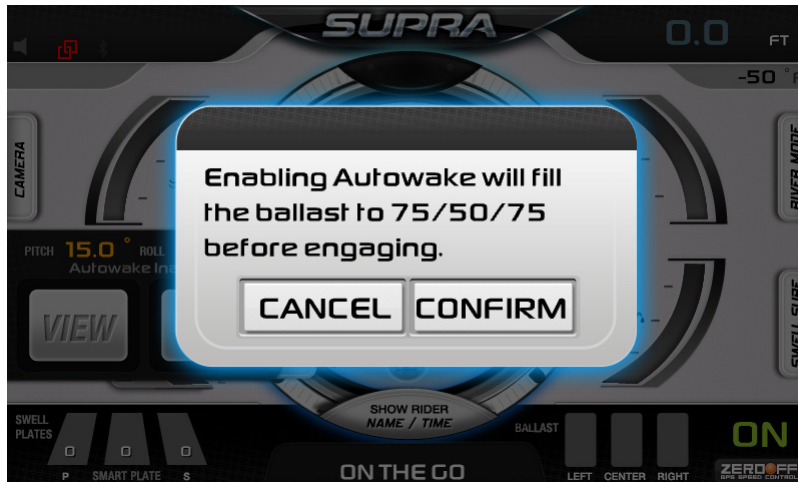
When a rider profile is active, Autowake will activate once the ballasts are filled to their profile-defined levels, cruise is ON and the set speed is between 7 and 26 mph.

Changes to the pitch and roll set points will be saved to the active rider profile under the currently selected surf side. Each rider can have differing set points for Surf Port, Surf Starboard and Wake.

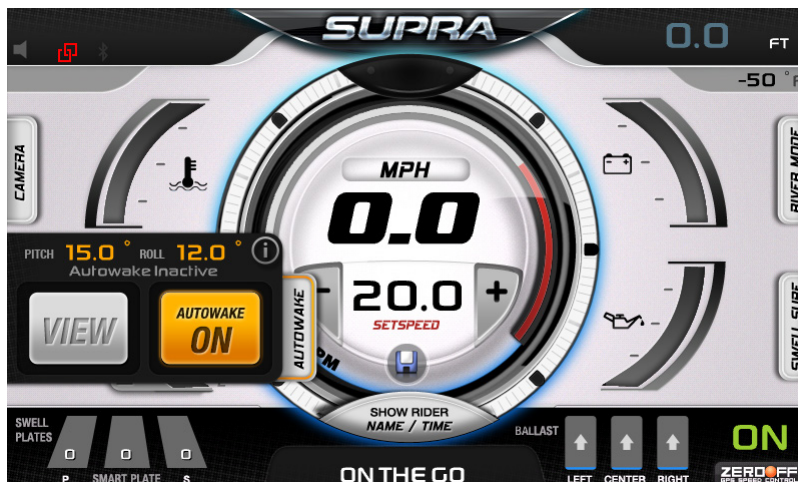
Touch the Autowake tab on the left side of the screen:



Touch Autowake Off and the following screen will appear:



Autowake will remain inactive while the ballasts fill. If Autowake is active, achieved or in countdown, it will return to inactive if a manual ballast switch is used or if the speed / cruise set speed is not between 7 and 26 mph. If the display is powered off, Autowake will be off when the display is powered back up. Touch Confirm and a screen similar to the following will appear:



Touch View, and the following screen will appear:



The actual Pitch and Roll set points will be displayed in the upper corners. Adjust the set points with the + and – buttons. Changes will be saved to the active rider profile.

To reset all Autowake set points for the active profile to the factory defaults, touch Reset to Factory.

Touch the X in the upper right corner to be returned to the Home screen.

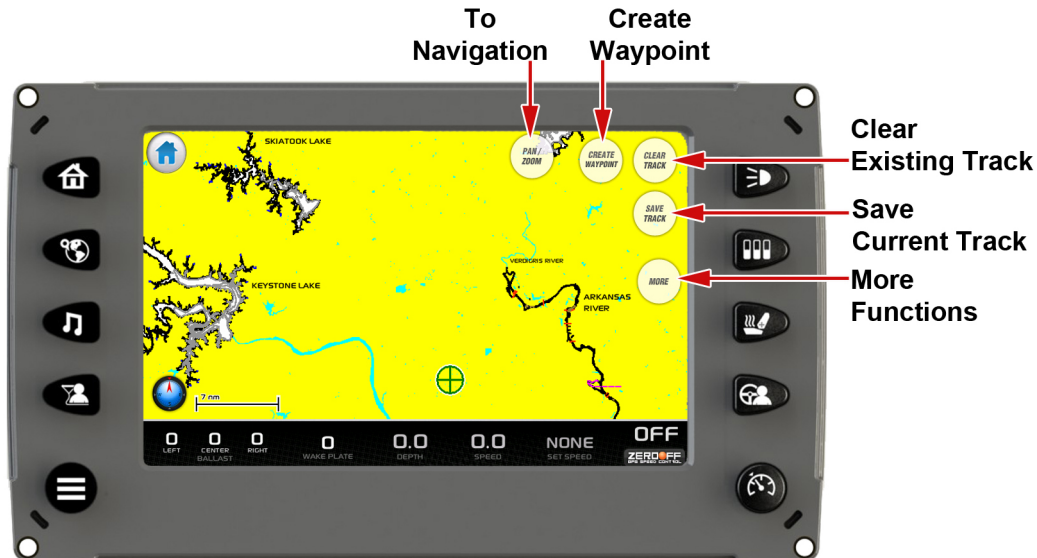
GPS

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.

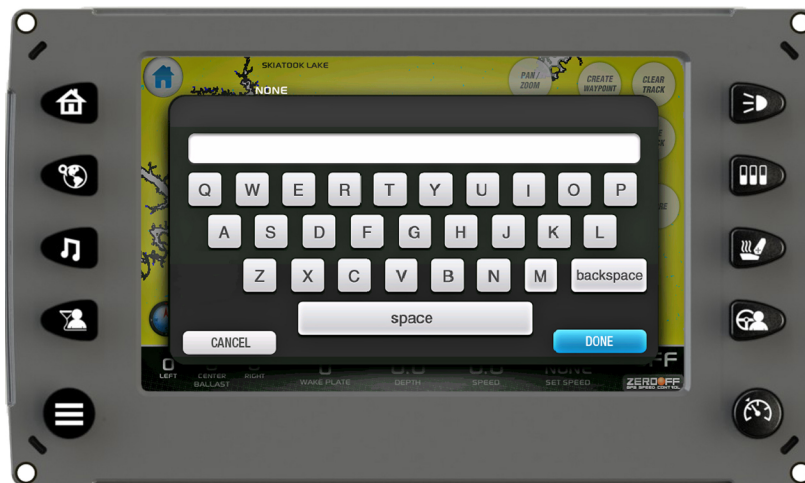


To see more options, touch **[TRACKING]**. The Tracking Menu is displayed on the next screen.



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]**.

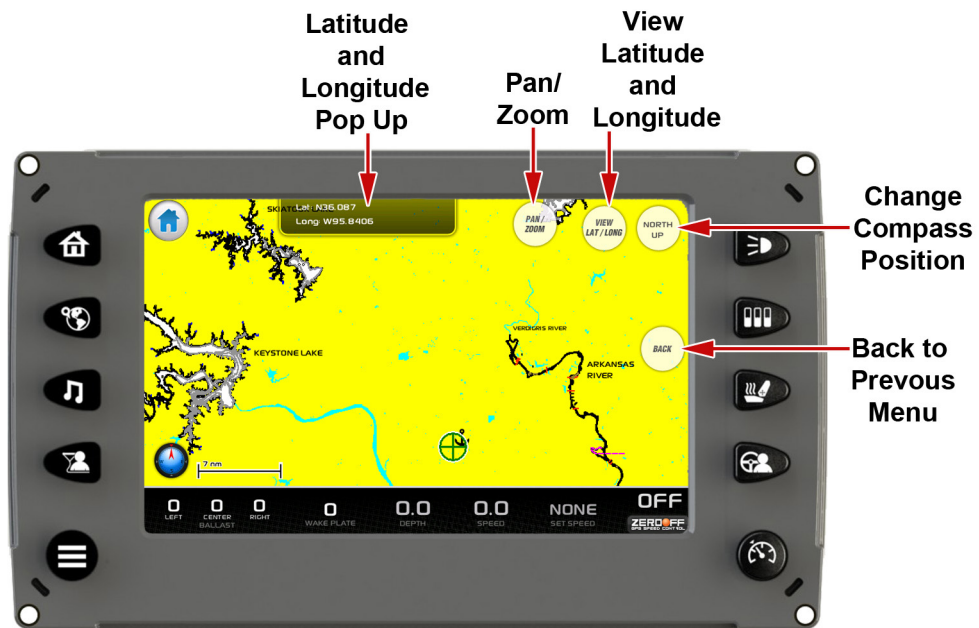


The waypoint is now displayed on the map represented by an anchor icon. This anchor icon can be changed to another icon in the Waypoint Manager (for more information on the Waypoint Manager, see GPS Settings under the Settings Menu).

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.



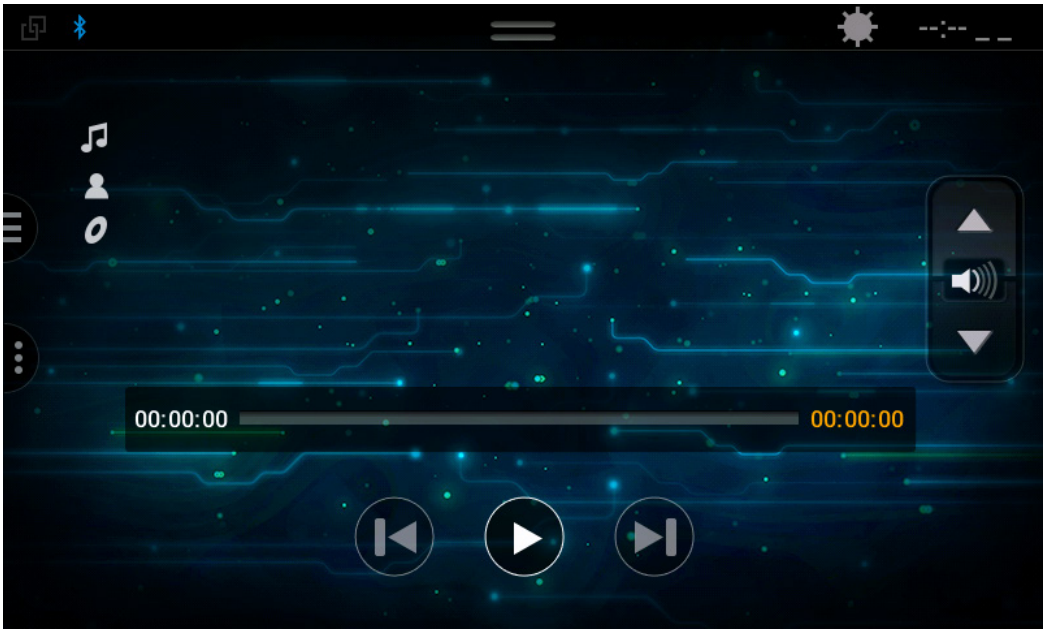
Stereo Display - Touch Commands

Touch Point	Description
	Volume : Press  to increase the volume. Press  to decrease the volume.
	Previous/Tune: Press  to go to the closest saved station to the left. Press  to tune the station to the left.
	Next/Tune: Press  to go to the closest saved station to the right. Press  to tune the station to the right.
	Station Location: This is a digital representation of the location on the dial for the chosen station.
	Scan: Press this button to scan to stations that have the strongest signal strengths.

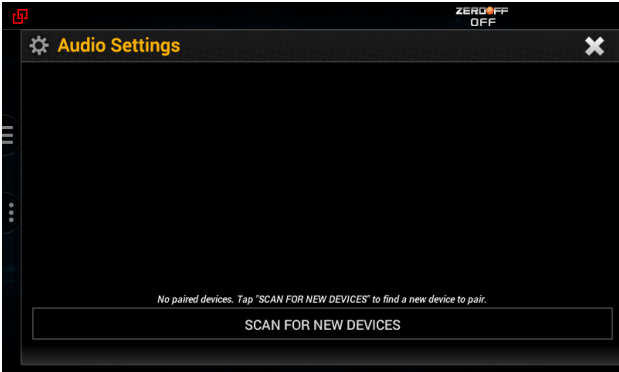
Touch Point	Description														
	Band Selector: Choose between FM, AM or Weather.														
	Preset Stations: This list contains six of the previously saved favorite stations. Hold your finger on the slot to save the current station as a preset station.														
	Favorites List – Touch to alternate between List A and List B. This provides 12 pre-saved favorite stations.														
	Tune Mode – Choosing FREQ will allow the scanning of all stations on the dial. Choosing PRESET will only scan the saved favorite stations on the dial.														
	List – Touch this point to expand the following list of icons: <table border="1"> <thead> <tr> <th>Icon</th><th>Description</th></tr> </thead> <tbody> <tr> <td></td><td>Switches to the AM band.</td></tr> <tr> <td></td><td>Switches to the FM band.</td></tr> <tr> <td></td><td>Displays the Weather band.</td></tr> <tr> <td></td><td>Displays the Bluetooth utility.</td></tr> <tr> <td></td><td>Displays the Auxiliary Input display to choose between three channels.</td></tr> <tr> <td></td><td>Displays the iPod/USB screen.</td></tr> </tbody> </table>	Icon	Description		Switches to the AM band.		Switches to the FM band.		Displays the Weather band.		Displays the Bluetooth utility.		Displays the Auxiliary Input display to choose between three channels.		Displays the iPod/USB screen.
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Bluetooth

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



Follow these steps to connect to Bluetooth:

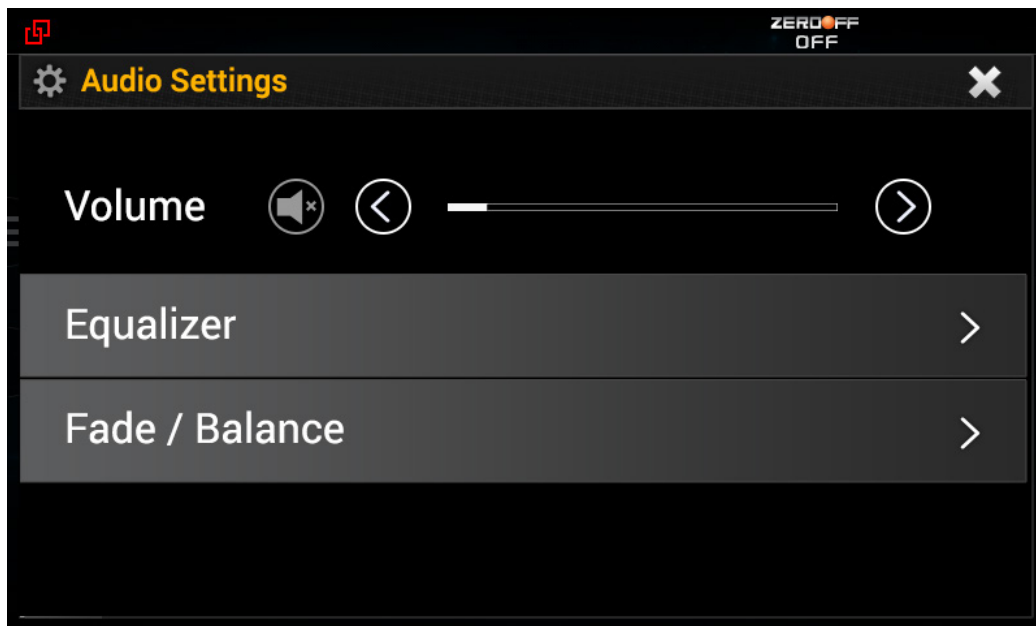
Step	Action
1	Touch the  on the left side of the screen, then touch . The following screen will appear: 

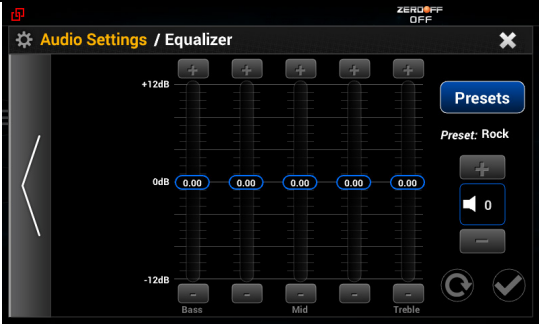
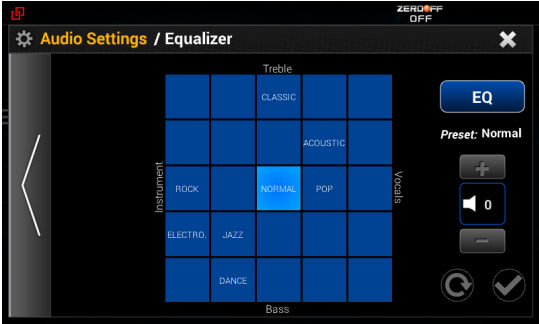
Step	Action
2	Touch Scan for New Devices to discover available Bluetooth compatible sources. If sources are found, they will appear on the screen.
3	Touch the device to which the Supra will be paired. A Pairing Requested message will appear. Touch the green check mark to pair or the red X to cancel. If successful, a paired message will appear on the screen.
4	Once paired, the source's media files will be viewable and playable on the first screen presented in this section.

Sound Control

The Sound Control section allows the adjustment of the following selections:

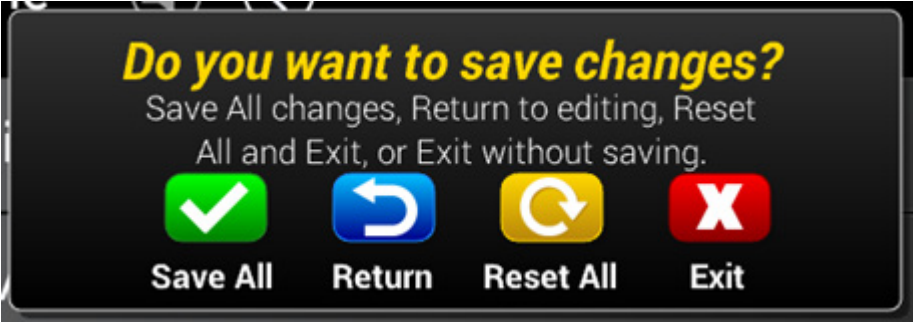
- Volume
- Equalizer
- Fade / Balance



Section	Description
Volume	Touch the left or right arrows to adjust the volume. Touch the  icon to mute or unmute the stereo.
Equalizer	 Touch the + or – buttons (or slide your finger up or down) to adjust the settings. Touch the Presets button and the following screen will appear:  Eight preset sound settings (Rock, Electro, Jazz, Dance, Classic, Normal, Acoustic and Pop) are available for selection. Touch any square to select settings that are more instrumental (toward the left side), more Bass (toward the bottom), more vocals (toward the right) or more Treble (toward the top). Touch the + or – buttons to adjust the volume.  resets the selection.  saves the selection. Touch EQ to be returned to the Equalizer screen.

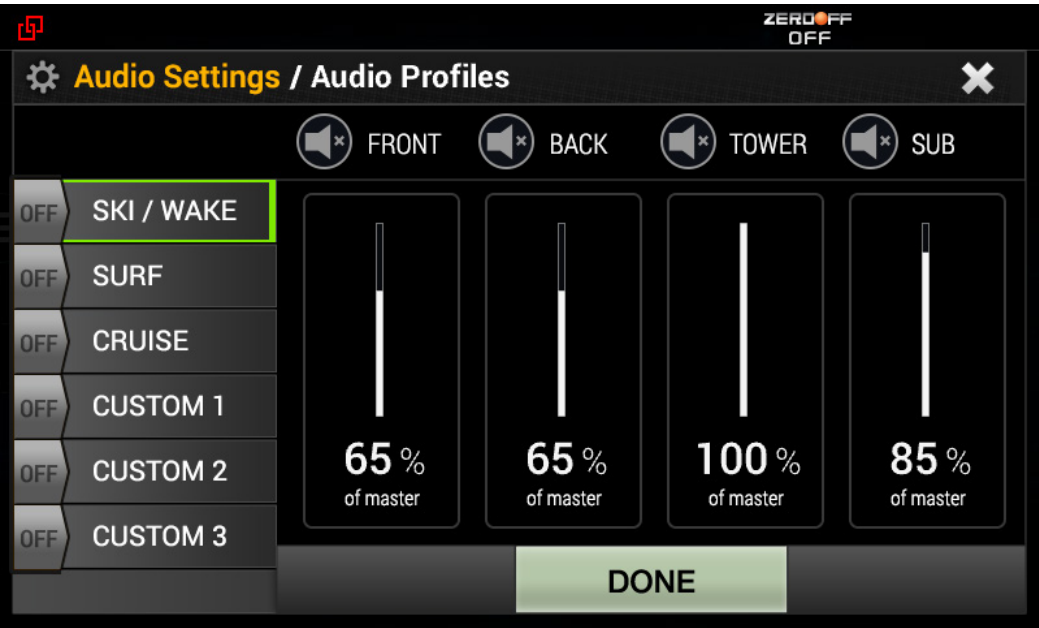
Section	Description
Fade / Balance	This screen allows the movement of the sound left or right, forward or aft. Touch the circle in the middle and slide to your preference. The adjusted screen will appear as follows: resets the selection. saves the selection.

If the X is touched before saving the changes, the following screen will appear:



Touch Save All, Return, Reset All or Exit (discards changes).

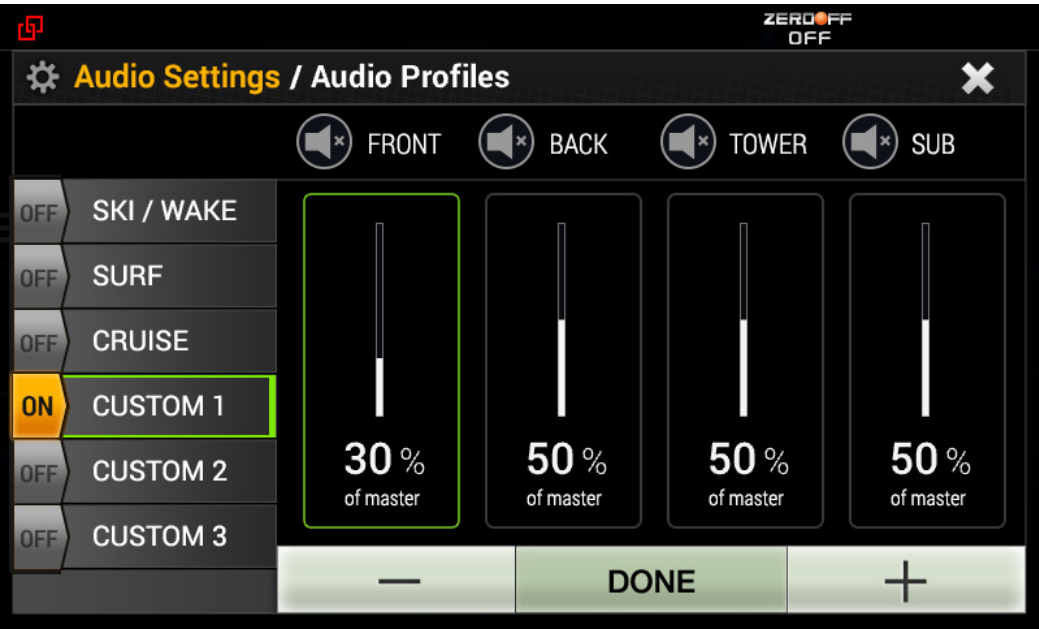
Audio Profiles



The Audio Profiles screen displays three preset audio profiles and the adjustment of up to three custom profiles.

Touch the Off button beside the desired profile to turn it On.

To adjust the custom profile, touch Custom 1, 2 or 3 and the following screen will appear:



Touch the – and + keys to adjust the settings, and touch Done to save. Touch the OFF button to turn that audio profile ON.

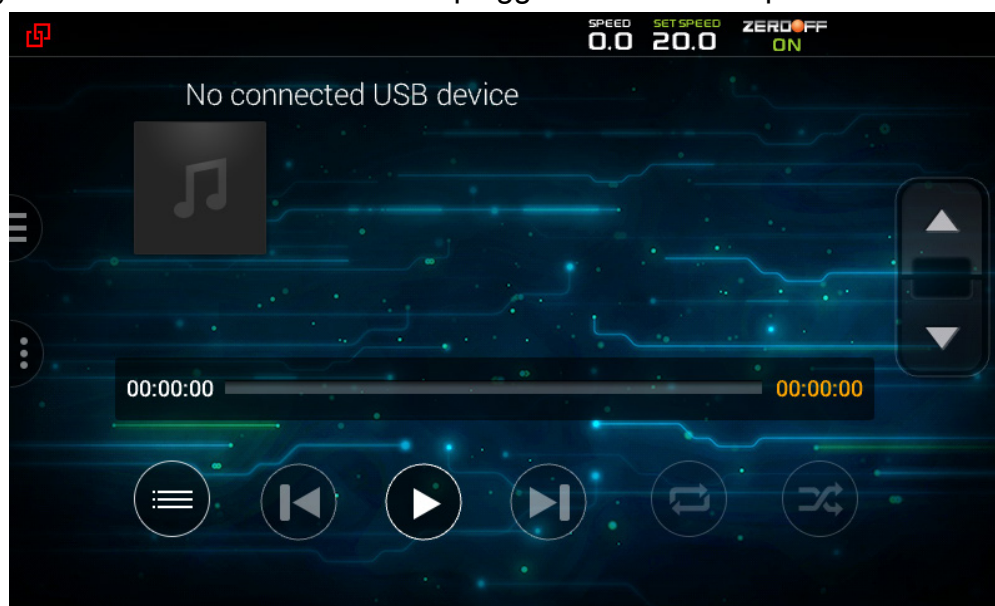
Auxiliary

The system provides up to three auxiliary jacks to access media files on alternate devices. Using the auxiliary cables will typically allow your device's battery to last longer than using Bluetooth and has a slightly improved sound quality over Bluetooth.



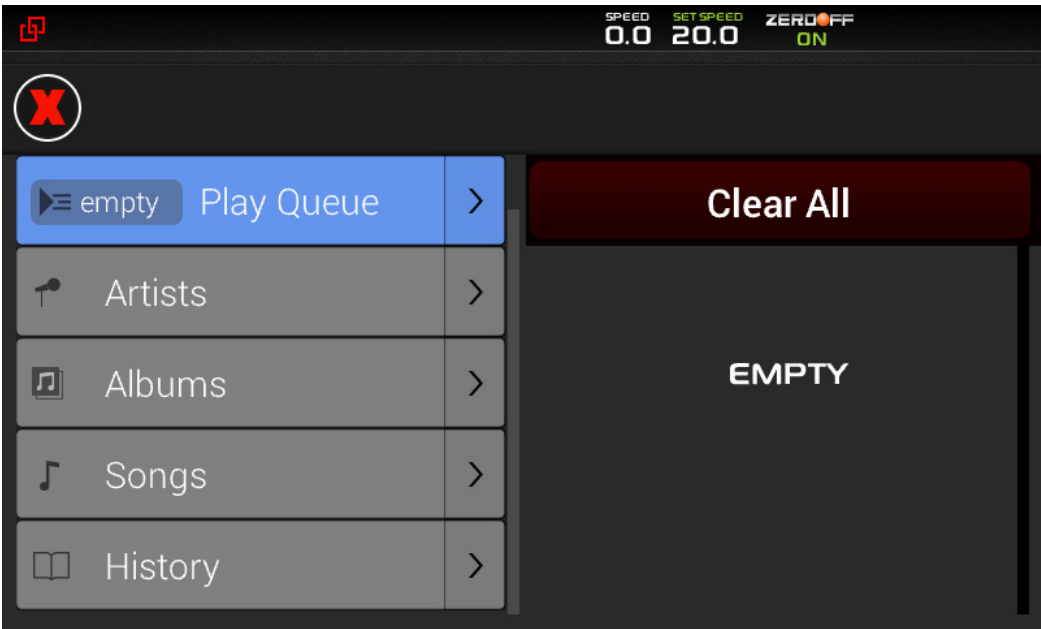
iPod/USB

The system allows the use of an iPod plugged into the USB port.



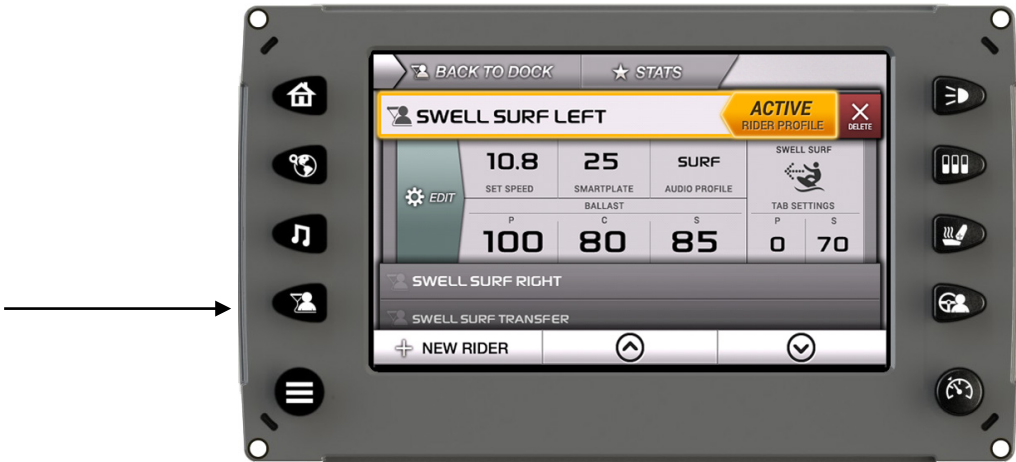


Once the device is plugged in, touch the  icon, and the following will display:

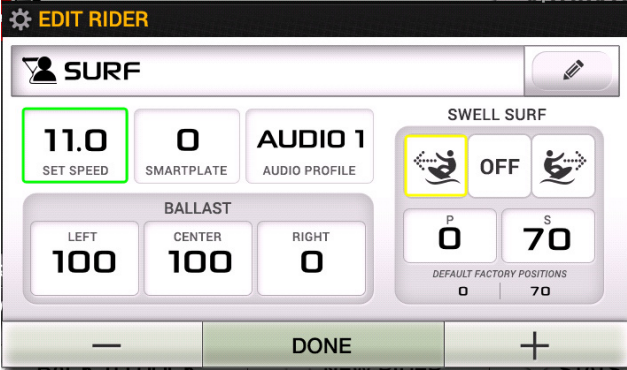
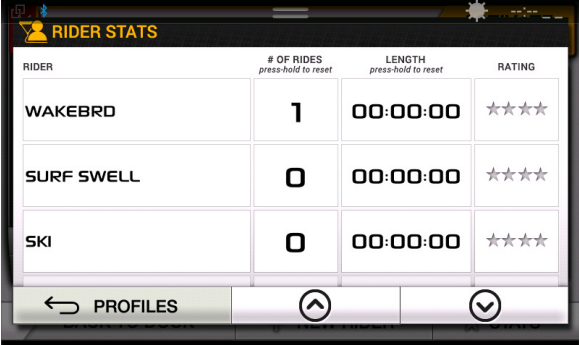


Media files may be selected by Queue, Artists, Albums, Songs or History. Once selected, the screen will revert back to the first screen shown in this section.

Profiles



Touch Point	Description
	Deletes (after confirmation) the currently displayed Rider Profile.

Touch Point	Description
	Activates the currently displayed Rider's profile, and changes the boat settings to align with the displayed settings.
	Displays the Edit Rider screen:  Touch each field to be edited, and adjust the settings with the – and + buttons. Touch Done when complete.
 	Scrolls 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.
	Displays the Rider Statistics screen:  To reset the number of rides, press and hold, and the number will reset to 0.

	To reset the length, press and hold, and the time will reset to 00:00:00. To provide a rating, touch the stars for each desired star to be lit up. Touch Profiles to return to the Profiles screen. Touch the UP and DN arrows to view additional statistics.
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Lights

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

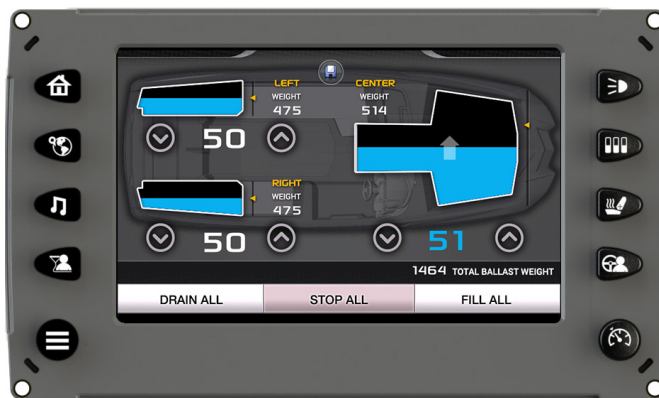
- Navigation Lights
- Anchor Lights
- Storage Lights
- Dome Lights
- Docking Lights
- Tower Lights
- Floor Lights
- Mid-Level Lights
- Speaker Lights
- Underwater Lights/Strobe
- All Off/All On



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:

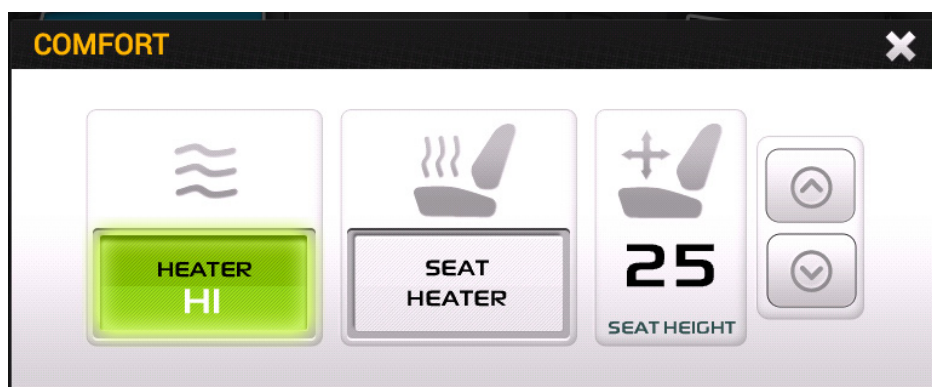
- **FILL ALL** – touch to fill all the ballasts
- **DRAIN ALL** – touch to drain all the ballasts
- **STOP ALL** – touch to stop all filling or draining activity
- **SAVE** – touch to save the current settings to the current profile or a new profile
- **X** – touch to exit the current screen

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

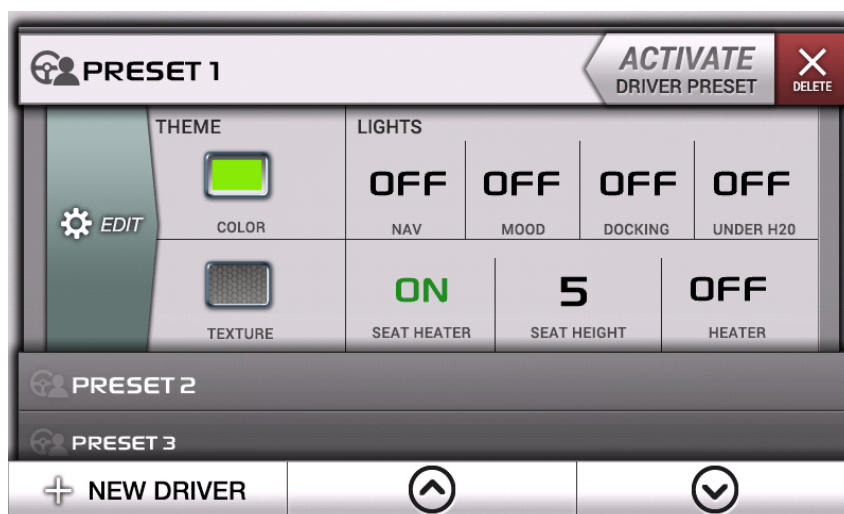
These settings can also be set for specific boat drivers through the driver presets.



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

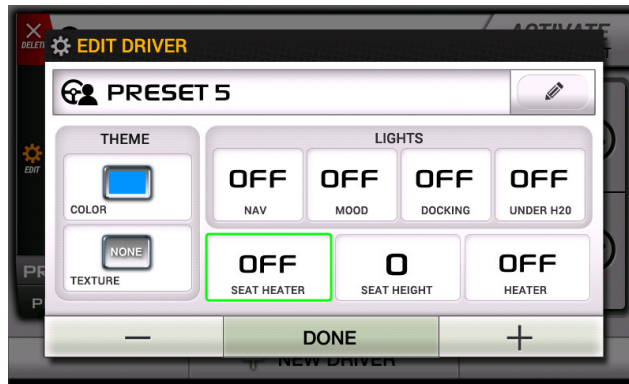
The Driver Presets screen can be accessed by pressing the Driver Presets  Quick Access Key. This feature displays preferences for the boat drivers and is interactive for needed changes.



Setting up Driver's Preferences

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

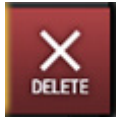
If you need additional Driver Presets, you can add them to the list by touching **New Driver**.



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.
Audio Settings	Displays the settings for auto volume intensity, notifications, wireless remote pairing, Bluetooth, audio profiles and audio firmware.
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.
Dealer Settings	Contains the ability to change the boat model, radio option and the appearance of audio options within particular boat zones.

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. NOTE: 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.
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. 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 [GET FAULTS] 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 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 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

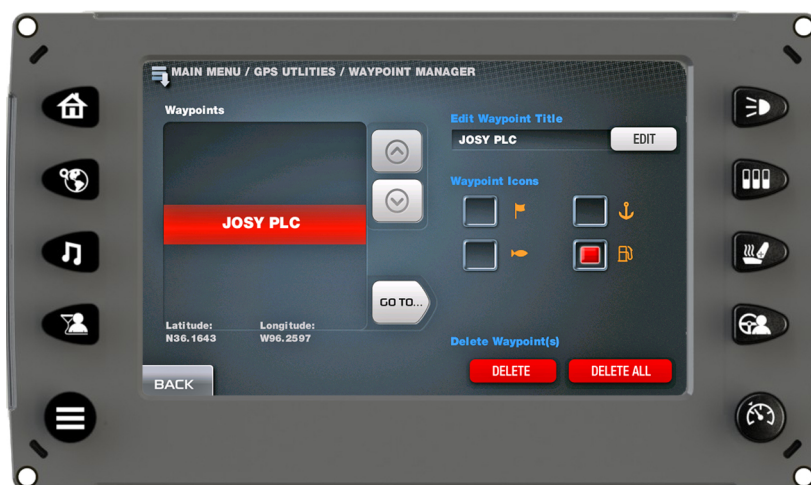
On the GPS Utilities screen, touch **[Depth and Position]** to access the Depth and Position screen. This feature allows you to define the amount of detail to display for longitude and latitude information on the GPS map and depth display.



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...]** 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 [Up] and [Down] 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 establish viewing options for the GPS Display.

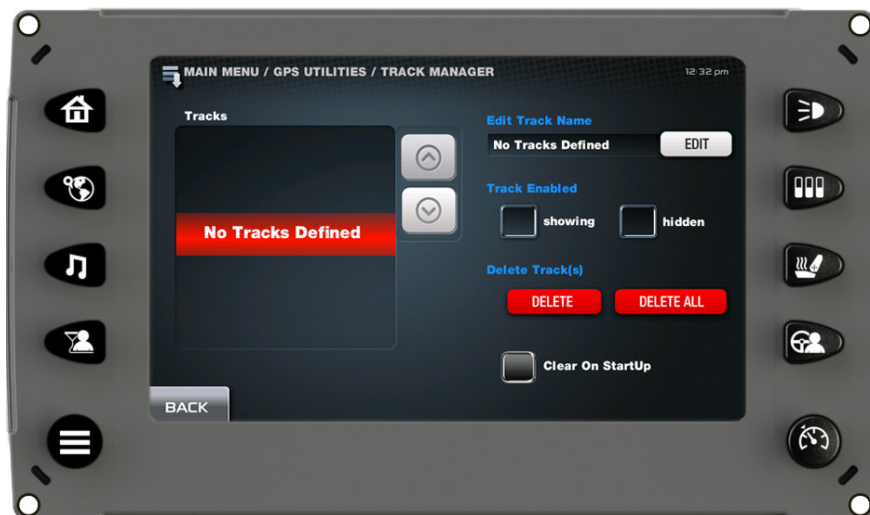


Function	Description/Action
Chart Setup Parameters	Touch each selection to choose features activated on the GPS screen. A green dot displays by the active features. Touch the selection to toggle on or off.
Time Setup Parameters	Select correct time zone and clock mode for either 12-hour or 24-hour time formats. You can also enable or disable DST (daylight saving time) by touching that selection to toggle on or off (denoted by the highlighted green dot).

Track Manager

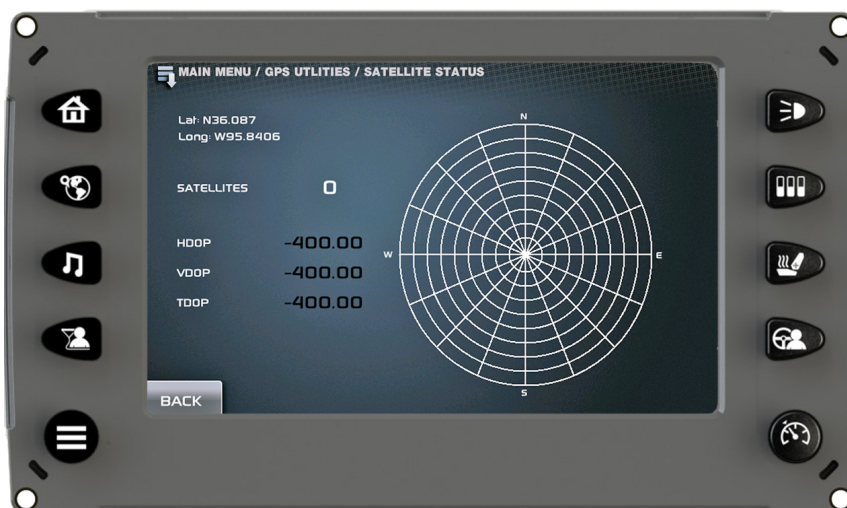
On the GPS Utilities screen, touch **[Track Manager]** to access the Track Manager screen. Multiple tracks for displaying on the GPS map can be established. The Track Manager allows you to select tracks to show or hide on the map you are currently using. You may **[Delete]** one track or **[Delete All]** tracks at once.

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



Satellite Status

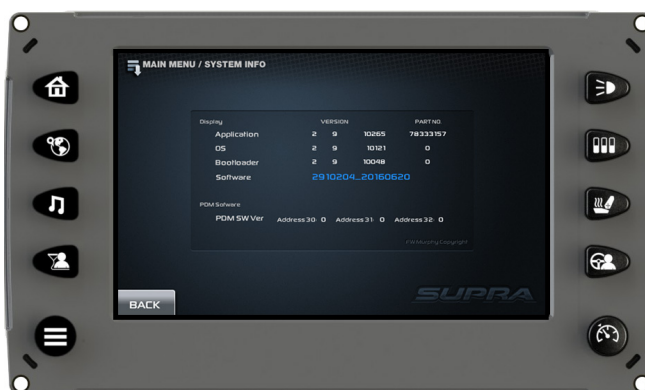
On the GPS Utilities screen, touch **[Satellite Status]** to access the Satellite Status screen. This screen is an information-only screen that displays the location of detectable satellites.



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

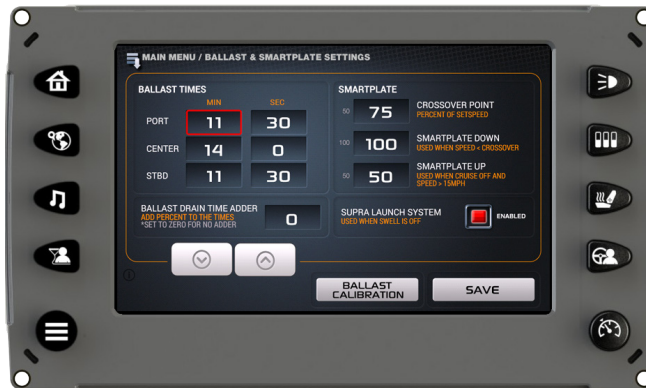
On the Main Menu screen, touch **[Ballast/Smartplate Settings]** to access the Ballast/Smartplate Settings screen. This screen provides default fill times for ballasts and default settings for the Smartplate.

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.

If enabled, the **[Supra Launch System]** will assist in getting the craft to plane quicker when the Swell is turned off.

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

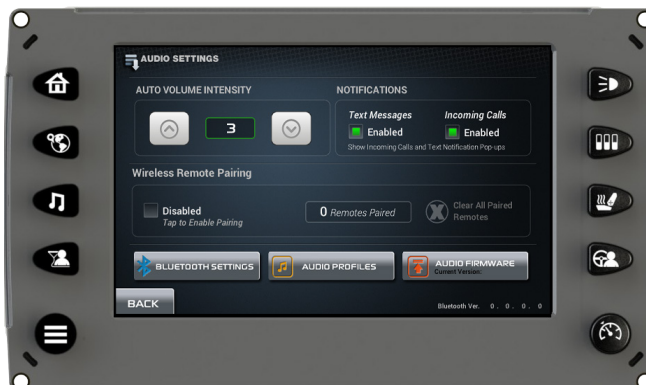
The **[Ballast Calibration]** function recalibrates the ballast level displayed to read Full (100 percent) or Empty (0 percent). The Ballast display levels are based on time to level calculations.

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).

Touch **[Save]** to save changes.

Audio Settings

On the main Menu screen, touch **[Audio Settings]** to access the Audio Settings screen. This screen displays auto volume intensity, notifications, wireless remote pairing, Bluetooth settings, audio profiles and audio firmware settings.



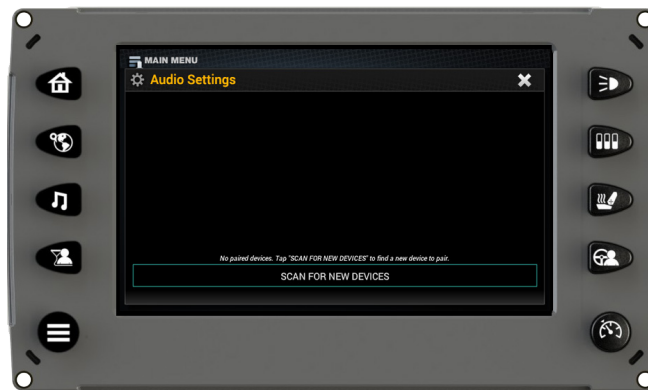
The **Auto Volume Intensity** will automatically increase the volume of the audio when the engine RPMs increase. If set to 0, the volume will not increase automatically. If set to 3, the audio will increase at a faster rate than a 1 or 2 setting.

To display or hide **Notifications** of incoming calls and texts, touch the Enabled/Disabled boxes under each category.

To enable or disable **Wireless Remote Pairing**, touch the Enabled/Disabled box in that category. Then touch any key on the remote to begin the pairing process. The field to the right will show the number of remotes that have successfully paired with the system. To **Clear All Paired Remotes** touch the X in the circle.

Bluetooth Settings

The Bluetooth Settings screen will allow the pairing of the system with other nearby devices that have Bluetooth enabled and turned on.



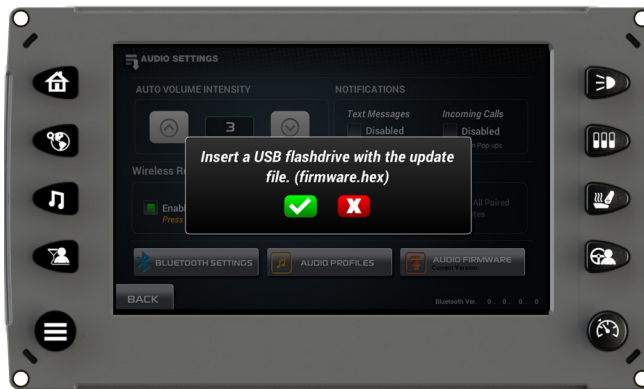
Touch the Scan for New Devices button to discover a new device. If a new device is found, touch the name of that device to pair it with the system.

Audio Profiles

See the [AudioProfiles](#) section detailed above.

Audio Firmware

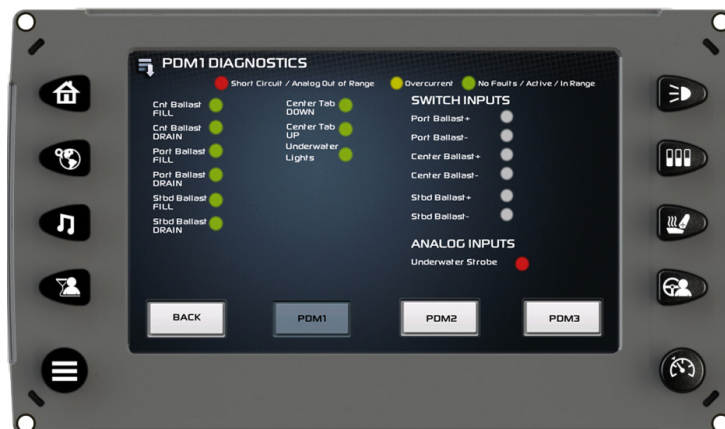
The Audio Firmware screen will provide a method by which the audio firmware files may be updated.



Insert a USB flash drive with the update files loaded into one of the available USB slots on the craft. Touch the green check mark to upload the files.

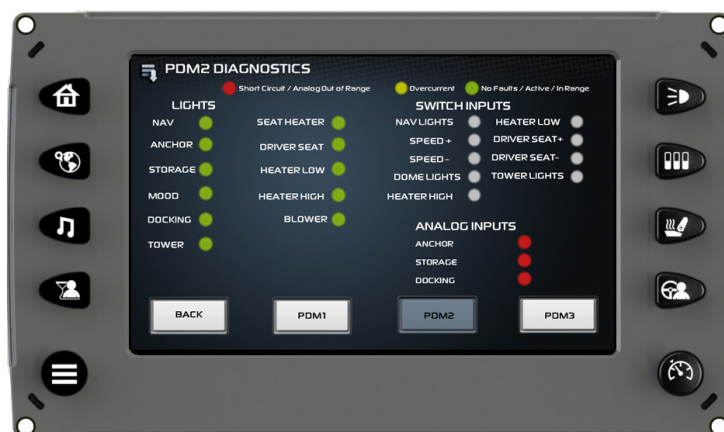
PDM Diagnostics

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.

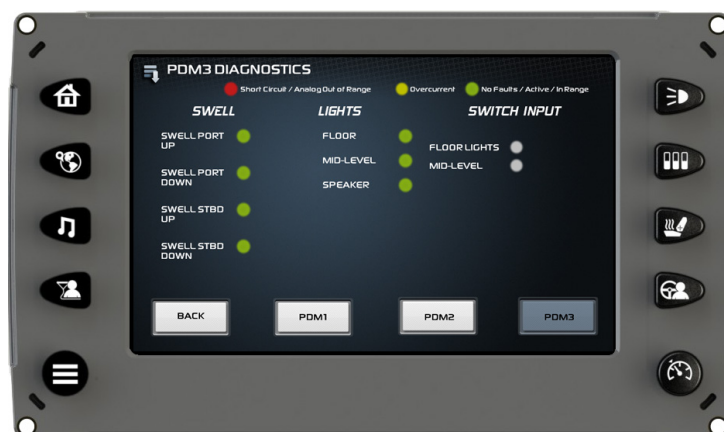


Touch the **[PDM2]** or **[PDM3]** touch command to view alternate screens. Touch the **[Back]** Touch Command to return to the main menu.

PDM2 Diagnostics



PDM3 Diagnostics



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.