

*Supra<sup>®</sup>*  
*Vision<sup>™</sup> Control*  
*2025*

*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.**



**This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**

## **Trademarks & Patents**

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AutoWake™ : U.S. Patent Nos. 8,798,825; 9,499,242; 9,689,395; 9,828,075; 9,873,491; 10,093,398; 10,414,470; 10,640,182; 10,717,502; 10,759,507; 10,858,080; 10,926,848, 10,676,166, 11,130,551, 11,358,680, 11,438,751 and other patents pending.

Amplitude Display: U.S. Patent No. 9,950,771; 10,577,054.

Supra Thruster Control Knob: U.S. Patent No. 11,014,638.

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# Product Information

The Supra® Vision™ Control 2025 displays are designed for instrumentation and control of electronically controlled engines communicating via SAE J1939 and NMEA 2000.

These displays enable boat operators to view engine, ballast and transmission parameters and service codes, GPS tracking, AutoWake®/Surf controls, Bluetooth media and cruise control functions.

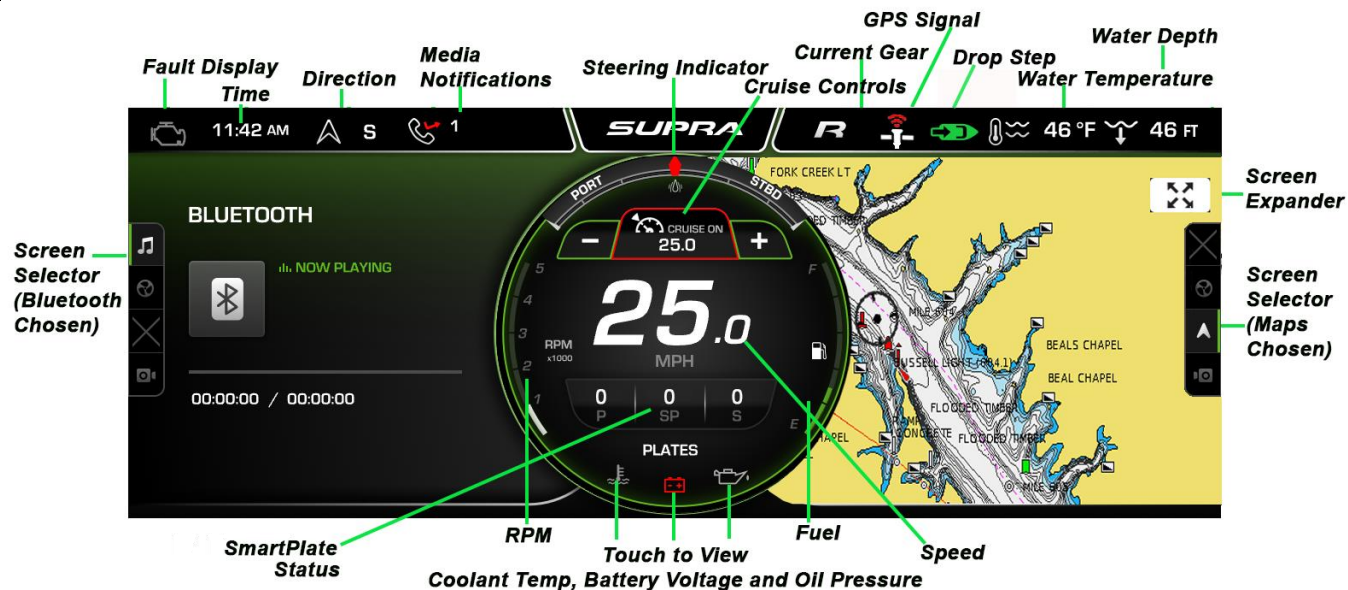
|                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 11" PV1100                                                                        | 12" PV1200                                                                         | 5" S50                                                                              |
|  |  |  |

# 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 units.

# PV1200 Features

## Home Screen



| <b>Screen Area</b>         | <b>Description</b>                                                                                                                                  |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fault Display</b>       | Engine or PDM faults will appear in this area. To investigate the cause of the fault, review the Diagnostics utility within Settings on the PV1100. |
| <b>Time</b>                | Displays the local time according to the style chosen in Settings (12 or 24 Hr).                                                                    |
| <b>Direction</b>           | Displays the current direction in which the boat is traveling.                                                                                      |
| <b>Media Notifications</b> | Displays the number of missed incoming calls for connected cellular devices.                                                                        |
| <b>Steering Indicator</b>  | Will shift to the Port or Starboard side in relation to the electronic steering.                                                                    |
| <b>Cruise Controls</b>     | Turns on and off the ZeroOff GPS Speed Control® system and decreases/increases the GPS Cruise speed.                                                |
| <b>Current Gear</b>        | Displays F (Forward), R (Reverse) or N (Neutral) according to the gear currently being used.                                                        |

Continued

| Screen Area                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>GPS Signal</b></p>  | <p>Illuminates red when the GPS signal is low or white when the GPS signal is good. If the GPS signal is low or lost, the PV1100 will display one of the following messages:</p> <div style="display: flex; align-items: center; justify-content: center;">  <span style="margin: 0 10px;">or</span>  </div>                                                              |
| <p><b>Drop Step</b></p>                                                                                    | <p>The color of this graphic will display the current status of the Drop Step.</p> <ul style="list-style-type: none"> <li>• Green: Drop Step fully retracted</li> <li>• Red: Drop Step fully deployed</li> <li>• Yellow: Drop Step not fully retracted or deployed</li> <li>• Orange: Drop Step moving but not fully retracted or deployed</li> </ul> <p>Note: If the Drop Step becomes incapacitated and is unable to fully retract or deploy, it may need to be recalibrated. Consult your local boat dealer to remedy this situation.</p> |

Continued

| <b>Screen Area</b>         | <b>Description</b>                                                                                                                                                                                                                                                                  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water Temperature</b>   | Displays the current temperature of the water in which the boat is residing.                                                                                                                                                                                                        |
| <b>Water Depth</b>         | Displays the current detected depth of the water.                                                                                                                                                                                                                                   |
| <b>Screen Expander</b>     | Touching this area will shift the center dial to the left, giving additional room on the right side of the screen. Touch once more to return.                                                                                                                                       |
| <b>Screen Selector</b>     | Provides the ability to choose between 3 screen contents for each side of the PV1200. Slide your finger or tap to view Music, Maps, Thrusters or Video capabilities. The chosen capability can only be displayed on one side at a time. These options may be limited by boat model. |
| <b>Speed/RPM</b>           | How fast the boat is traveling and the number of Revolutions Per Minute of the engine.                                                                                                                                                                                              |
| <b>Fuel</b>                | The amount of fuel in the boat.                                                                                                                                                                                                                                                     |
| <b>Touch to View area</b>  | Touch the symbols in this area to briefly display the coolant temperature, the battery voltage or the oil pressure.                                                                                                                                                                 |
| <b>Smart Plate™ Status</b> | Displays the Port (Left plate), Starboard (Right plate) and Smart Plate (Middle plate) settings.                                                                                                                                                                                    |

## Media

---

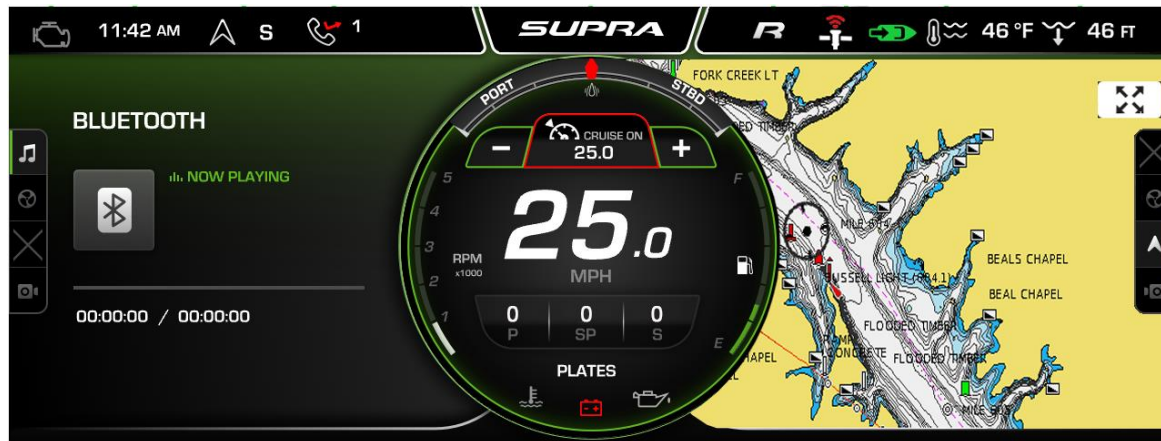
For the PV1200 to display media contents, the media must be connected on the PV1100. Please see the section within PV1100 titled [Bluetooth](#) for instructions on connecting these devices to a Bluetooth source.

## Maps

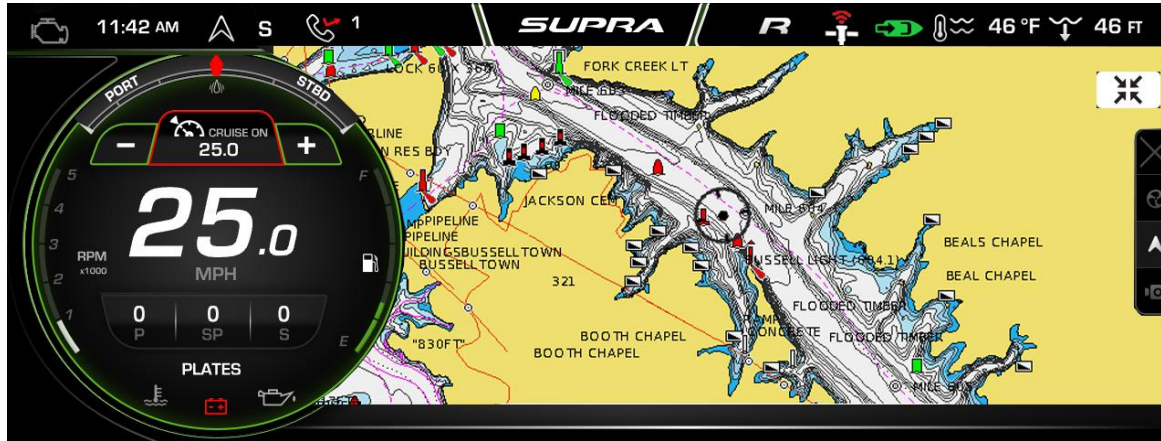
---

Similar to Media, Maps will be displayed on the PV1200, with the Maps controls residing on the PV1100. Please see the section titled [Navigation](#) for instructions on using this utility.

The one Maps control that resides on the PV1200 is the expandable screen:



When a larger Maps screen is desired, touch the  symbol, and the center dial will slide to the side, expanding the screen:



To bring the screen back to what is shown in the top picture, touch the expander symbol again. When Maps is selected to display on the left side of the screen and when expanded, the above screen will appear reversed (dial on the right, map on the left).

## Video

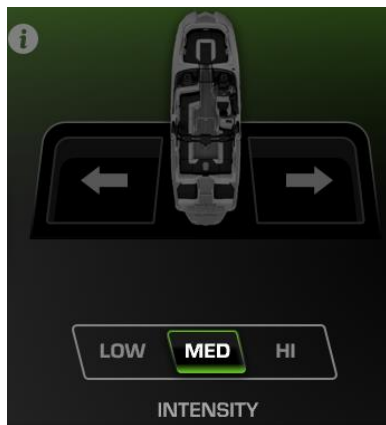
---

The video controls that reside on the PV1200 allow you to choose between a view from the Tower or the Transom:



Touch the Tower or Transom button to switch to the alternate video view. Both the Tower and Transom camera video feeds will be displayed automatically when the shifter is moved to Reverse and remain on for 10 seconds when the shifter is returned to the Neutral or Forward positions. The Video feed is the only capability that can be selected to be shown on both sides of the screen to enable viewing of both the Tower and Transom video feeds at the same time.

## Thrusters (if equipped)



If available on the boat and enabled the sides of the 1200 screen will appear with a Thruster icon shown above.

There are five states to the system: Off, Port Dock Hold, Starboard Dock Hold, Port Burst and Starboard Burst. Touching one of the white arrows will trigger Port or Starboard Hold accordingly and cancel any other state. Touching the same arrow will turn the system off.

Port and Starboard Burst are triggered by a knob on the boat's throttle and will always be high intensity.

Low, Medium and High refer to the Dock Hold intensity. When active, a popup will appear on the right side of the PV1200 indicating the direction the boat will be moving. The popup will go away when the system is off or idle.

Touching the  will display the conditions by which the system will activate:

- when the engine is on
- when the battery's voltage is above 10V, and
- when the boat's speed remains under 5 mph.

## ZeroOff GPS® Speed Control

---

Zero Off is a GPS speed control based solely on input from satellites and engine management systems. It is based on the speed you are traveling across the surface of the water; therefore, there is no requirement for skier weight, crew weight or any kind of wind adjustment. You simply touch the ZeroOff button, set the desired speed and go. This easy-to-use technology has made Zero Off the industry standard.

Touch the Cruise Off button to turn on the GPS speed control. Use the + and – buttons to adjust the Set Speed.

To turn off Cruise, touch the (now) Cruise On button.



## PV1100 Features

While PV1200 is the Vision Control's flash, the 3-tier PV1100 display is the function.

Each tier contains access to the settings that make your boating experience the best it can be.

The following sections describe the controls found in each tier.



*Media Controls*  
AM/FM  
Bluetooth  
USB  
Weather  
Auxiliary

*Performance Settings*  
Rider Profiles  
Ballast  
Surf  
Cruise  
Autowake

*Comfort Settings*  
Lights  
Switches  
Navigation  
Main Settings Menu

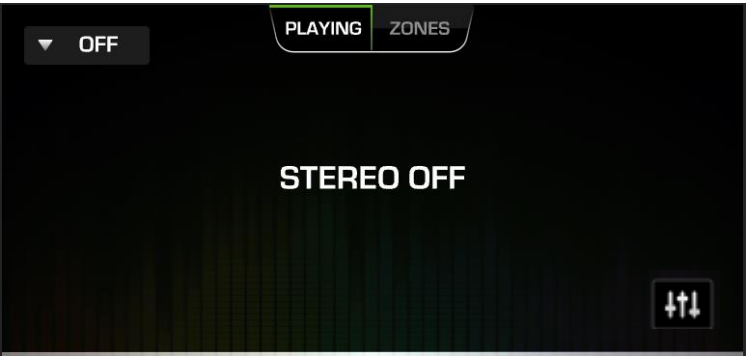
# Media Controls

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Media files can be sourced through the following choices:

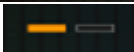
|           |
|-----------|
| OFF       |
| AM RADIO  |
| FM RADIO  |
| BLUETOOTH |
| USB       |
| NOAA      |
| AUX       |

From the upper left hand corner select the desired media source.



## Now playing: AM or FM Radio

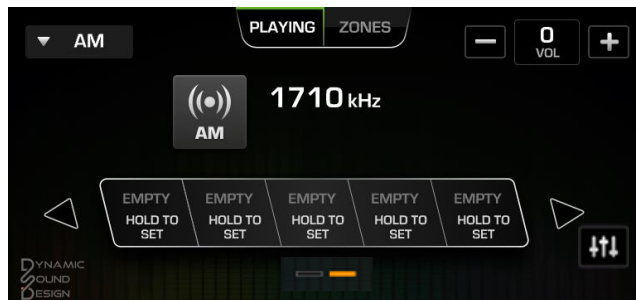


Touch  to view the second page.

Adjust the volume in the upper right corner by the – and + buttons.

Touch **SCAN** or the arrow buttons to navigate to a desired station.

Touch  to display the Audio Settings page, which is fully described in [Settings](#).



Save your 20 favorite stations (10 each for AM and FM) by holding an empty station button for approximately 3 seconds.



When the five shown slots are filled, touch the right arrow for 5 additional slots.



Touch the left arrow to return to the previous bank of saved stations.

## Audio Zones



Adjust the volume in each of the zones shown by touching the – or + buttons.

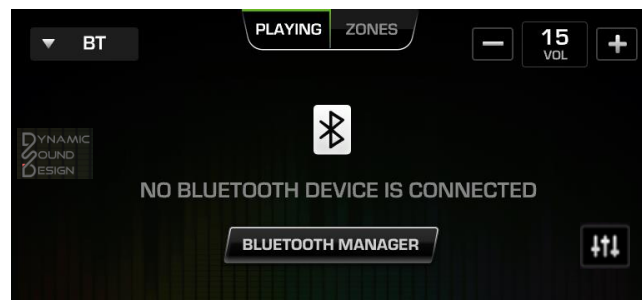
Mute a zone by touching the zone name. Touch Mute All for no sound from any zone.

Zone settings can be saved to a chosen profile by selecting the profile name and touching the Save button .

| SKI/WAKE |
|----------|
| SURF     |
| CRUISE   |
| CUSTOM 1 |
| CUSTOM 2 |
| CUSTOM 3 |

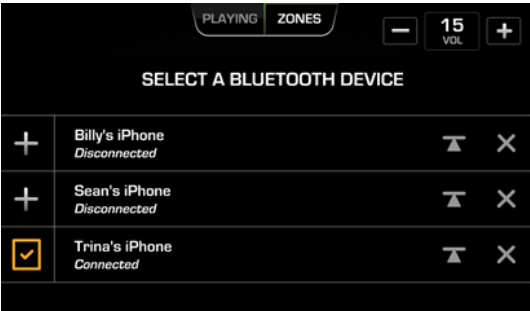
### Now playing: Bluetooth

To connect a Bluetooth device, follow these steps:



| Step | Action                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Select Bluetooth from the drop down menu then touch the Bluetooth Manager button. Previously connected devices (if still saved in memory) will be displayed.                                                        |
| 2    | If a particular device is not displayed, touch  . Check that Bluetooth is turned on and that your personal device is discoverable. |
| 3    | The PV1100 will begin to scan for new devices and display its findings on the screen. Touch the + beside the device to be added when it appears.                                                                    |
| 4    | The PV1100 will then show that a pairing has been requested. On the device to be added, a Bluetooth Pairing Request message will appear. Touch "Pair".                                                              |
| 5    | On the PV1100, a message will appear stating Pairing Complete.                                                                                                                                                      |
| 6    | A second question may appear on the device asking if the PV1100 can have access to the device's contacts. Select either Yes or No.                                                                                  |

Continued

| Step | Action                                                                                                                                                                                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7    | <p>When paired, the PV1100 will display a check mark beside the device and also display <i>Connected</i>.</p> <p>Devices can be assigned a higher priority on the list by touching the up arrow beside the name.</p> <p>Delete a device by touching the X beside the name.</p>  |
| 8    | <p>On the personal device, navigate to the music source of choice and the device's music content will begin to play on the screen.</p>                                                                                                                                                                                                                            |

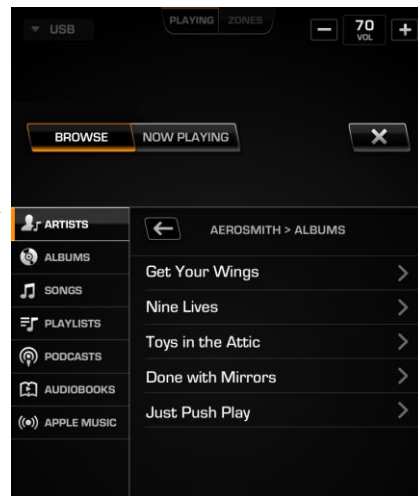
## Now playing: USB

Select USB from the drop down menu. Insert a USB drive containing music files into the PV1100's pigtail and the screen will display the contents of the drive (one song at a time).



Touch  to browse the contents of the USB.

Play a song on the list by selecting it.



Touch  to exit this screen.

Touch  to return to the above screen.

Note: iPhone cannot use USB audio.

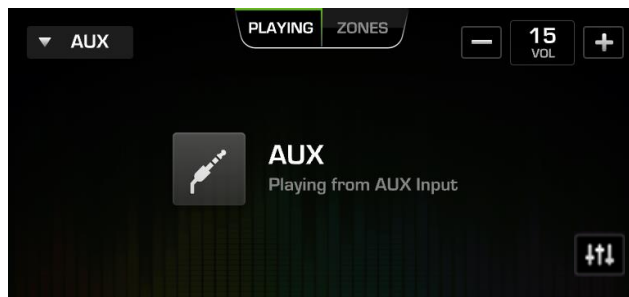
## Now playing: NOAA Weather

There are seven pre-programmed NOAA (National Oceanic and Atmospheric Administration) weather channels available on the PV1100.

To review current weather conditions, review channels 1 through 7 for various weather reports.



## Now playing: Auxiliary



The PV1100 also has an auxiliary pigtail that allows 3.5mm connectors to be utilized.

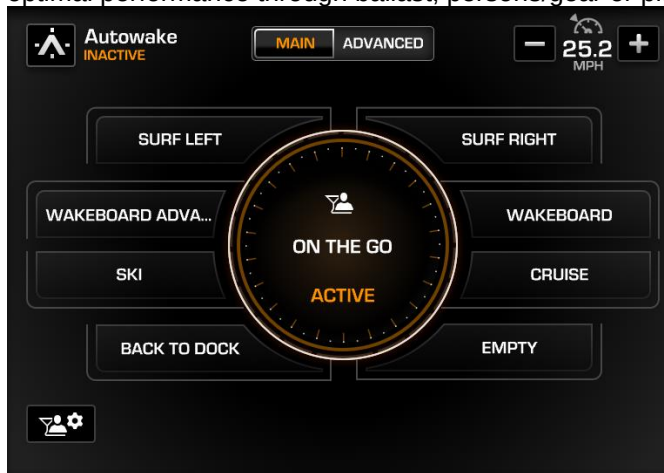
Select Aux from the Source list and plug the 3.5mm connector into the pigtail. That device's contents will be displayed on the screen.

## Performance Settings

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### AutoWake™

Note: The Pitch and Roll setpoints, cruise speed, ballast settings and Wake Amplitude settings are pre-set. Depending on the profile chosen, the display may suggest shifting weight to the Port or Starboard sides for the optimal performance through ballast, persons/gear or pitch/roll adjustments.



AutoWake\* is a patented 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.

\* AutoWake™ : U.S. Patent Nos. 8,798,825; 9,499,242; 9,689,395; 9,828,075; 9,873,491; 10,093,398; 10,414,470; 10,640,182; 10,717,502; 10,759,507; 10,858,080; 10,926,848; 10,676,166; 11,130,551; 11,358,68 and other patents pending.

See [www.skierschoice.com/patents-trademarks/](http://www.skierschoice.com/patents-trademarks/) for virtual patent marking.

The text on the upper left corner will show one of six current states of the system:

**(1) AutoWake Inactive:** This will occur when:

- AutoWake is turned off
- Cruise setpoint is below 7mph or above 26mph, or
- When actual speed is below 3mph and within 0.1mph of setpoint.

Below 3mph, AutoWake will use static functionality. Within 0.1mph, AutoWake will use dynamic functionality. The 10 second countdown timer will activate when actual speed is within 0.1 of set speed AND when the boat slows down to less than 3mph. During this state, AutoWake will do nothing.



Once  is pressed to turn on AutoWake, the system will try to first fill front ballast to establish the correct roll, then it will fill all the rear ballast until rear “Amplitude” is achieved. It does this in Static mode when the boat is traveling less than 3 mph and in Dynamic mode when the speed is within .1 of set speed. If AutoWake is active, achieved or in countdown, it will return to inactive if a ballast switch is used, speed is not between 7 mph and 26 mph, or cruise set speed is not within 7 mph and 26 mph. If the display is powered down, it will come back with AutoWake off.

**(2) AutoWake Countdown:** Once all conditions are met in the AutoWake Inactive state, a countdown of 10 seconds will begin. This countdown will remain if conditions continue to be met. Once the countdown is finished, AutoWake will become active. If any of the conditions change to be outside of the Active limits, the countdown will stop, and the state will go back to AutoWake Inactive. The countdown will start over once conditions are met.

**(3) AutoWake Active:** This will occur once:

- Set speed is between 7mph and 26mph
- Actual speed is within 0.1mph of set speed
- The 10 second countdown has finished.

After the countdown, the AutoWake system will begin to fill and drain ballasts to reach the desired pitch and roll values. The system will always fill before it starts to drain. Therefore, the side that needs to lower will always fill to 100% before the opposite side begins to drain (to raise that side). For roll, if one side has reached the maximum and the other side has reached the minimum (rear ballasts only), there will be a pop-up that prompts the user to adjust weight in the boat to achieve the desired roll values. The pitch value will have a similar pop-up but will only occur once the roll is finished moving (either achieved or maxed out). When the roll or pitch cannot move, the color of the set points will turn red.

**(4) AutoWake Achieved:** This will occur:

- Once the current pitch and roll values (average value over 5 seconds) are within 0.25 degrees
- AutoWake becomes Active.

The colors of the set points will be green. The achieved status will remain until the pitch or roll is outside of 0.75 degrees of the set point (in which case it will go back to the AutoWake Active state).

**(5) Static AutoWake Active:** This state will occur when:

- Boat is turned on
- AutoWake is turned on
- Actual speed is less than 3mph.

The system will attempt to fill and/or drain ballasts to reach a static pitch, roll and amplitude setpoint. If pitch or roll setpoints cannot be achieved, a pop-up will occur indicating this to the driver (AutoWake will remain in this state).

**(6) Static AutoWake Achieved:** This will occur when:

- Boat is turned on
- AutoWake is turned on
- Actual speed is less than 3mph
- Pitch, roll and amplitude values match their respective setpoints.

If pitch or roll setpoints cannot be achieved, a pop-up will occur indicating this to the driver and AutoWake will remain in Static AutoWake Active state. If pitch and roll are achieved and amplitude is as close as possible to setpoint, the AutoWake system will go to this state.

## Adjusting the Cruise Speed

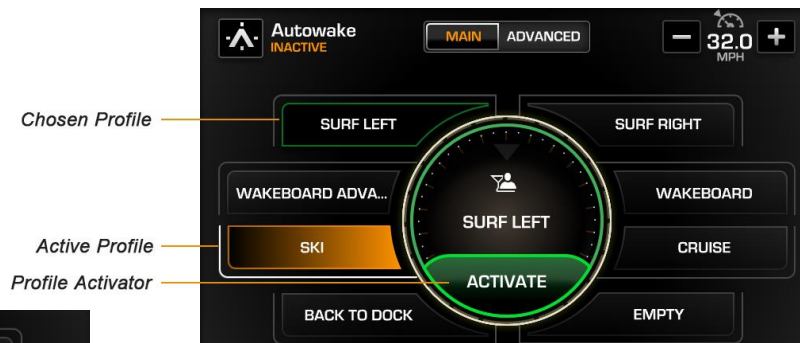
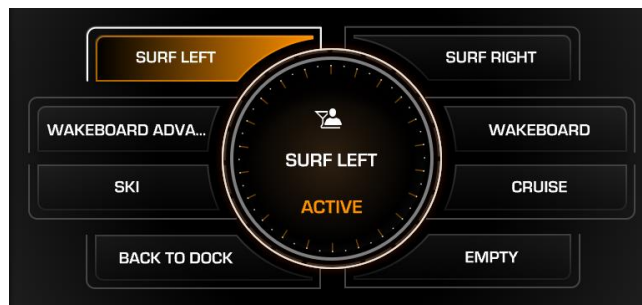
Touch the – or + buttons in the upper right corner to adjust the Cruise Speed.



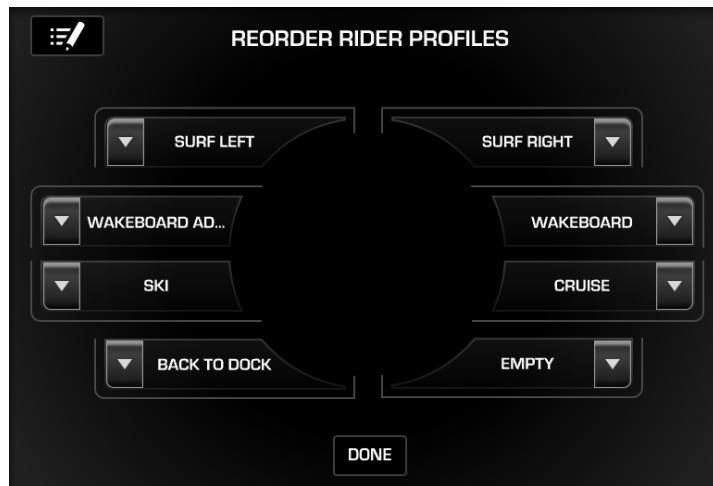
## Activating and Creating a Rider Profile

Rider profiles have been prepopulated with various settings for you to experience.

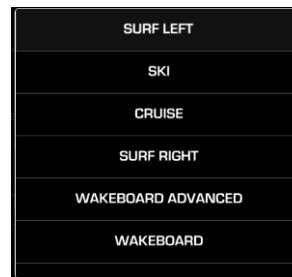
In this example, the active profile is Ski. Surf Left has been chosen to be the next profile. Simply touch Activate and Surf Left will be active, as shown below:



Rider Profiles can be edited and reordered by touching . The following screen will appear:



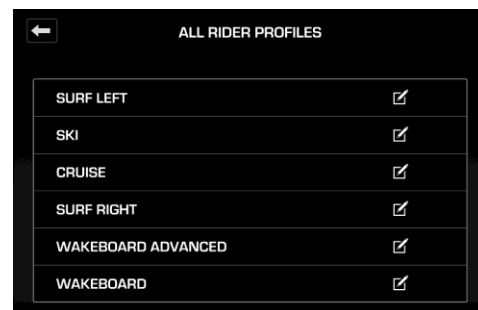
To reorder the arrangement of the profiles, touch the down arrow of the profile to exchange positions with one of the profile names that next appears in the list:



Select a name and the two profiles will switch positions.

Touch Done when complete.

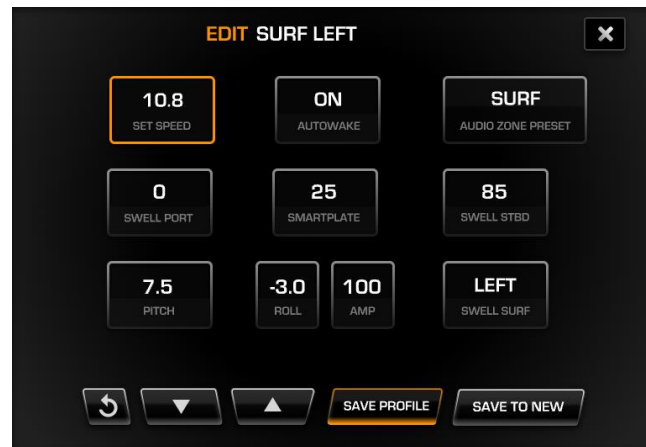
To edit a profile, press and hold the profile name on the main page or touch  and the All Rider Profiles screen will appear:



Touch the edit symbol  for the profile to be changed, and the Edit screen will appear:

Touch each parameter to be edited and use the up and down arrows to change the settings.

When your changes are complete, touch  to edit the chosen profile, or touch  to create a new profile. Type in the new profile name and touch Save.



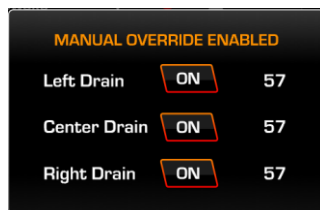
## Ballast and Pitch & Roll Set Points

Touch the Advanced button and the image on the right will appear:

Note: The engine must be running to fill the ballast.  
When AutoWake is off adjust the Ballast settings by the up and down arrows.

Touch **FILL ALL** to fill all ballasts at one time.

Touch **DRAIN ALL** to drain all ballasts at one time. If the engine is not running, the manual override will be enabled and the following screen will appear while the ballasts are draining.

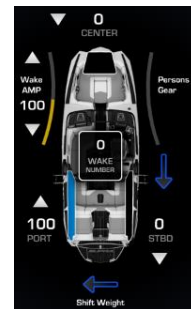
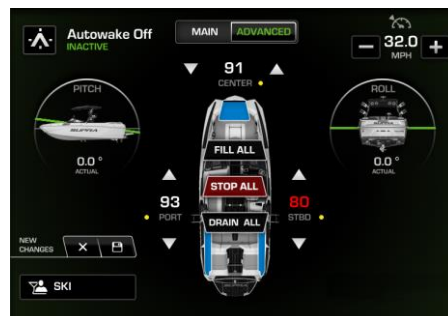


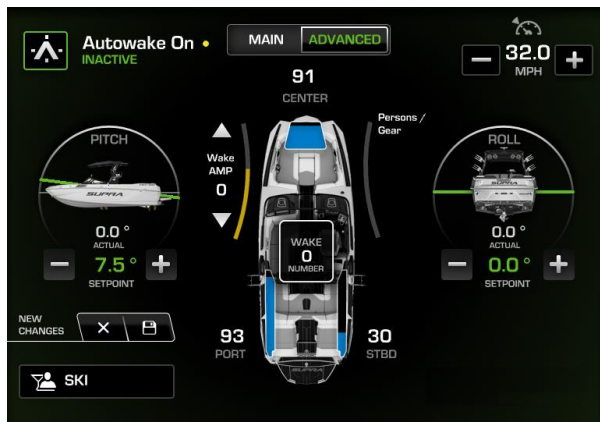
Turn off the draining of the ballast by touching **ON**.

While the ballast is filling or draining, arrows will appear on screen to depict the direction and where to shift the existing weight to compensate for the lost ballast weight.

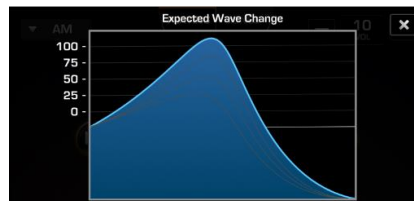
Save the new ballast settings by touching **Save** or discard the changes by touching **X**.

Touch AutoWake to turn it on and the screen will change:





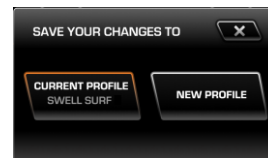
Adjust the Pitch and Roll setpoints by touching the – or + buttons. Changing these or the Wake Amplitude (described on the next page) will briefly display a graphic at the top of the screen illustrating the expected wave using the new settings.



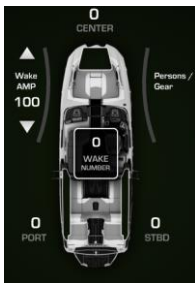
Any new changes to an active rider profile will prompt this to appear:



Touch X to clear the changes, or touch  to choose to save the changes to the currently selected profile or a New Profile. If selecting New, create a name for the new profile and choose Done. That profile will then become active.



## Setting the Wake Amplitude



Use this setting to define the amplitude of your wake (0 is mellow and 100 is aggressive). The Wake Amp\* bar will fill or empty to the target Wake Amp setting, indicating your total fill level for all ballast.

The Persons/Gear on the right is used to reference the current calculated weight of your boat (including passengers, gear and ballast). Weight plays a big part in driving the size of your wake. Adjust the Wake Amp number in relation to the Persons/Gear number to determine your current/actual Wake Number position (i.e., what could be possible if gear and passenger weight was adjusted).

\* Amplitude Display: U.S. Patent No. 9,950,771; 10,577,054. See [www.skierschoice.com/patents-trademarks/](http://www.skierschoice.com/patents-trademarks/)

for virtual patent marking.

## Comfort Settings

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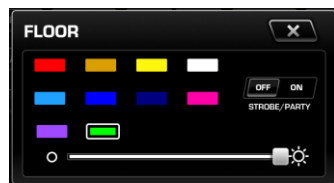
### Lights



The first feature of the lower third of the display is the Lights utility. Touch a light's button to turn it on or off. Touch All Off to turn all lights off at once.

Two Custom slots exist to create a custom, saved light configuration. Adjust the lights to your preference, and then touch Custom 1 or Custom 2 to save.

Touch the color wheel for a light that displays one and the following screen will appear:



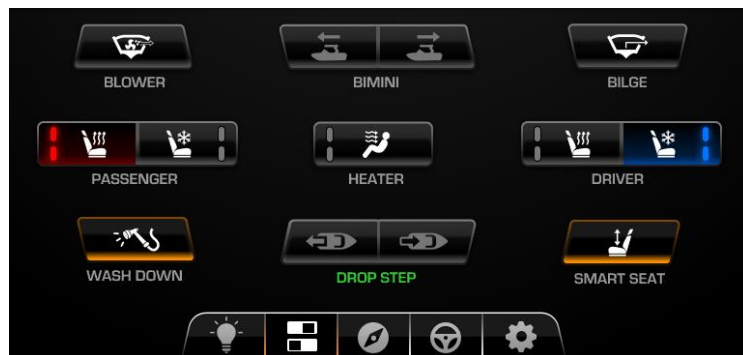
Select a color for that light and adjust the intensity on the slider bar. Touch the On or Off button to enable a strobe light effect. Touch the X to close the screen.

## Switches

Touch the Switches tab at the bottom of the display and the screen to the right will appear.

The Heater has three settings: Off, Low and High. Touch the button repeatedly for the desired setting.

The Passenger and Driver seats are both heated  and cooled . Each setting has three settings: Off, Low and High. Touch the button repeatedly for the desired setting.



The Blower, Bilge and Wash Down are all turned on or off by touching the appropriate button.

The Bimini and Drop Step can be either deployed or retracted by the appropriate button.

Turning on the Smartseat setting will adjust the driver's seat according to the Pitch and Roll values.

## Autoleveling

Autoleveling is a system that utilizes an inclinometer sensor to calculate the roll of a boat and correct the roll to be as level as possible while staying within the set parameters.

For Autoleveling to occur, ALL of the following conditions must be met:

- The active profile must be Cruise or Back to Dock.
- AutoWake must be On.
- Speed must be greater than 85% of the Setspeed.
- Setspeed must be greater than 7 mph and less than 30 mph.
- The Inclinometer must be Active.
- Roll is either above  $1.5^{\circ}$  or below  $-1.5^{\circ}$

Once the above parameters have been met, Autoleveling will retract the plate on the side of the roll fully to 0% and launch the plate opposite of the roll immediately to 40% and begin incrementing in steps of 5% until either the roll has been leveled or the plate has extended to the maximum setpoint of 65%.

Example: If the boat is leaning to the port side the port plate will retract to 0% and the starboard plate will extend to 40%. If the boat is still not level after the initial extension the boat will then increment by 5% until roll has reached level or 65%, whichever comes first. If the boat overcorrects the roll, the plate that extended will begin to retract in 5% increments until roll is corrected or until the plate is back at 0%. If the plate retracts back to 0%, the plate opposite to the one previously retracted will then begin to extend like it would in normal operating conditions.

NOTE: Autoleveling is disabled when turning.

## Navigation

---

The Maps utility can be accessed by touching the Maps icon at the bottom of the screen. 



Touch the expander icon to make the map screen larger, and once more to make it smaller.



This displays the ability to turn on and off the map's grids, text, waypoints, tracks and navigation aids.



This displays the keyboard to name a new waypoint location on the map.



This records the boats movements. When done, touch Stop and the keyboard displays to name the track.

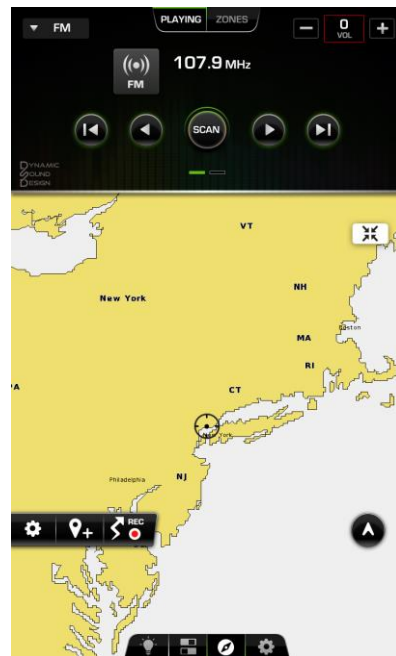


Touching these buttons alternates between North Up and Course Up and will orient the map accordingly.

Touch a part of the screen and drag it to pan to a different part of the map.

Pinch the screen between two fingers to zoom out or place two fingers together on the screen and spread them apart to zoom in.

Note: See [GPS Utilities](#) in the Main System Settings section for additional map functionality.



## Electronic Steering (if equipped)

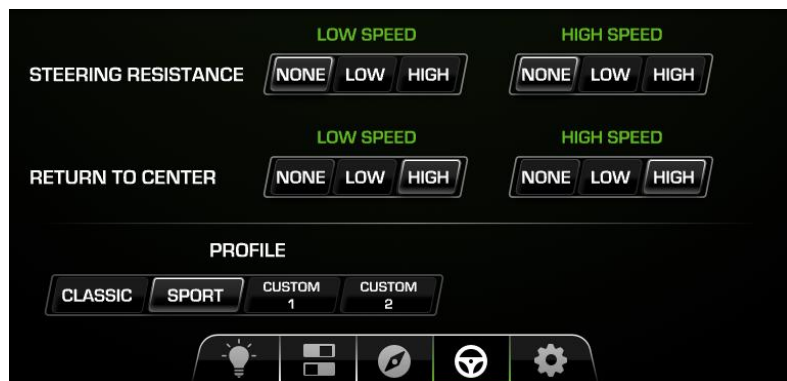
---

For both low and high speeds, select the amount of steering resistance experienced (none, low or high).

For both low and high speeds, select the rate at which the steering wheel returns to the center position (none, low or high)

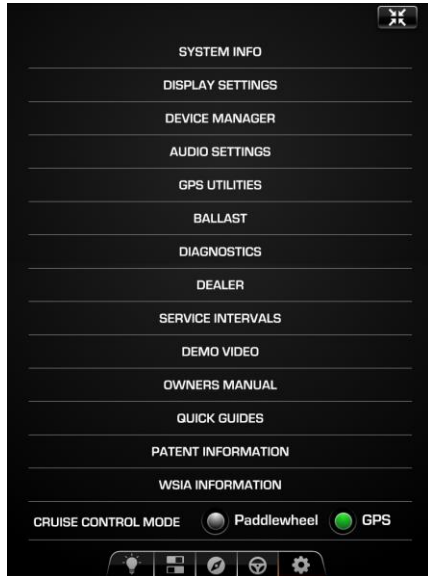
Preset settings for Classic and Sport have been created. Select either profile and the settings will change accordingly.

To create a custom steering profile, adjust the settings as desired and then press and hold the Custom 1 or Custom 2 button until white highlighting appears around the button.



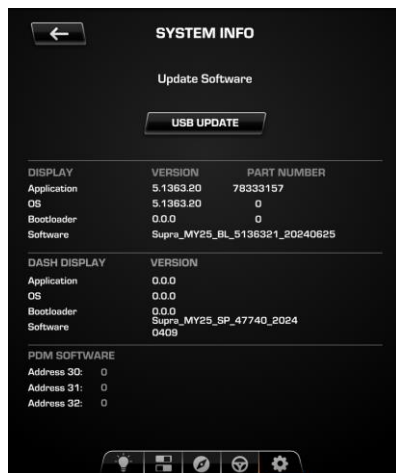
## Main System Settings

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Touch the Settings button  to review the following utilities:

- [System Info](#)
- [Display Settings](#)
- [Device Manager \(Remote, Bluetooth, Glove Box Lockout\)](#)
- [Audio Settings](#)
- [GPS Utilities](#)
- [Ballast](#)
- [Diagnostics](#)
- **Dealer (Restricted to Dealer access only)**
- [Service Intervals](#)
- [QR Codes \(Demo Video, Owner's Manuals, Quick Guides, Patent Information\)](#)
- [WSIA Information](#)
- [Cruise Control Mode](#)



## System Info

This screen displays the current version and part numbers for the Application, Operating System, Bootloader and Software used on the display, Dash display and PDM software.

An internal telematics device (connected via the USB pigtail) will have access to the latest software versions downloaded from the cloud. To update the software, touch **USB UPDATE** and follow the prompts that appear on the screen.

To update the software via a physical USB drive, remove the connection to the telematics device and attach an updated USB drive in its place. Power-cycle the boat and then touch **USB UPDATE** again, then follow the instructions that appear on the screen.



## Display Settings

**Auto Day/Night Settings:** select if day and night settings will automatically change and the time to change for both.

**Auto Backlight:** this automatically dims the brightness when the Navigation light is on.

**Brightness:** use the – or + buttons to adjust.

**Time Zone:** use the + or – buttons to cycle through the choices until the appropriate time zone appears.

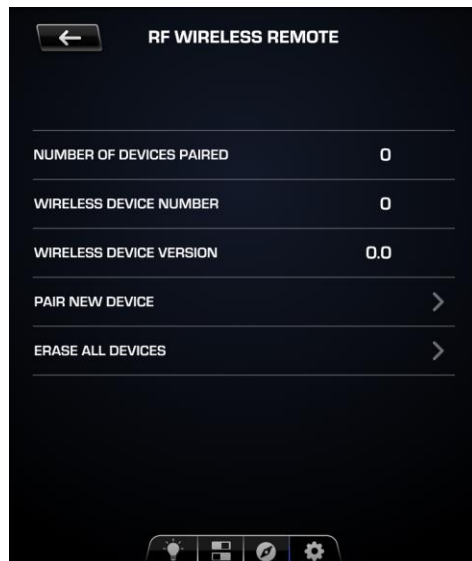
**DST Enabled:** select (green) if Daylight Saving Time is enabled, deselect (gray) if it is not enabled.

**Display Format:** select 12 Hr (i.e., 1:00pm) or 24 Hr (i.e., 13:00).

**Units:** choose US Standard or Metric.

**Minimum Depth:** use the – or + buttons to adjust the minimum detectable depth for the boat.

**Color Scheme:** the current selection has a checkmark beside it.



## Device Manager

### RF Wireless Remote

This page controls the pairing of wireless remotes to the display.

To pair a new device, touch Pair New Device. Make sure the device is on and touch the green check mark that appears. Press any key on the remote to pair it with the display.

To erase all devices, touch Erase All Devices and follow the prompts.

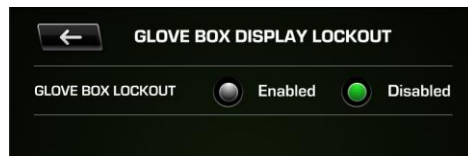


### Bluetooth

The process for Selecting a Bluetooth Device has been previously described [here](#) within Media Settings of the PV1100.

The bottom half of the screen allows you to enable call and text notifications that will appear on the screen when you receive an incoming phone call or text.

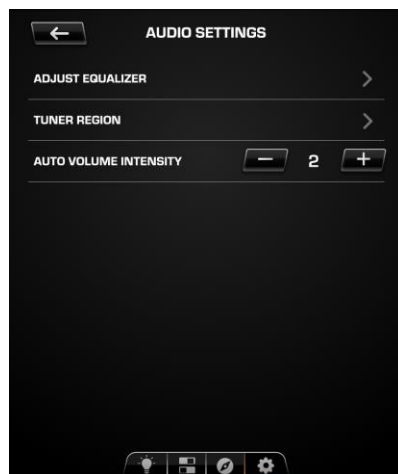
Currently only available with Android devices, Edit Quick Text Replies allows you to choose or edit a prewritten reply to any incoming texts. When a text arrives, touch Edit Quick Text Replies and choose a reply to be automatically sent.



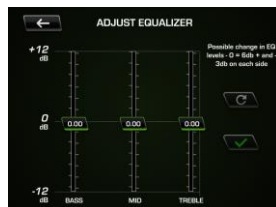
### Glove Box Display Lockout

When disabled, limited settings may be changed from the S50 unit. When enabled, the S50 unit will not allow changes to be made.

# Audio Settings



**Adjust Equalizer** will display the following screen:



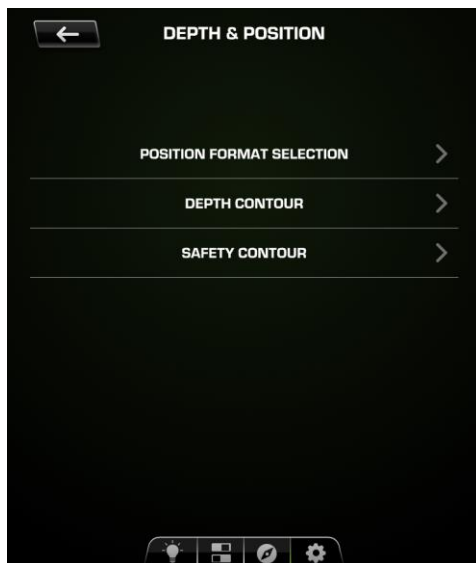
Adjust the Bass, Mid and Treble settings to your liking.

Touch  to save or  to discard the changes.

**Tuner Region** provides the geographical location from which your radio signal will originate. Choose from Australia, Europe, Europe (50Hz), Japan, North America, South America or Taiwan.

**Auto Volume Intensity** automatically adjusts the volume for wind and/or engine noise according to the number chosen.

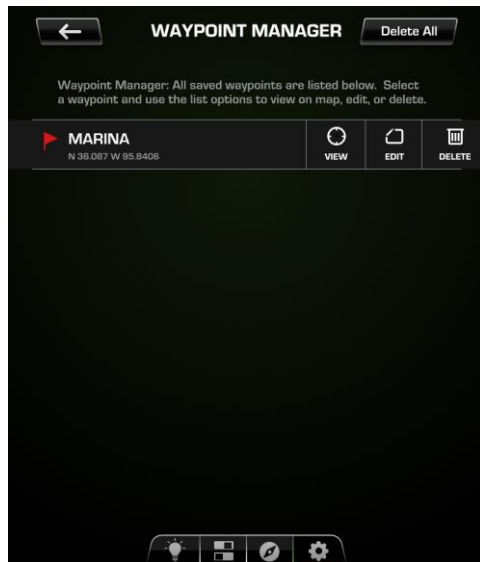
## GPS Utilities



### Depth and Position:

Within this section are three subsections:

- 1) Position Format Selection: controls how the positions on the map are shown (Degrees and Decimal Degrees; Degrees, Minutes and Decimal Minutes; or Degrees, Minutes, Seconds and Decimal Seconds).
- 2) Depth Contour: will denote contour lines out to the depth chosen (Off, 6', 16', 33', 66' or All). For example, if the depth of 66ft is chosen, the map will show depth lines out to 66 feet.
- 3) Safety Contour will show shaded areas of the map that indicate shallow or deep water (lighter is deeper, darker is shallower). Similar to Depth Contour, if 66ft is chosen for safety contour, the map will show shaded areas out to 66 feet. (Off, 6', 16', 33', 66' or All)



## Waypoint Manager

This section lists all the saved Waypoints from the Map utility.

Touch  to delete the existing Waypoints.

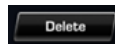
Touch View to see where the Waypoint is located on the map.

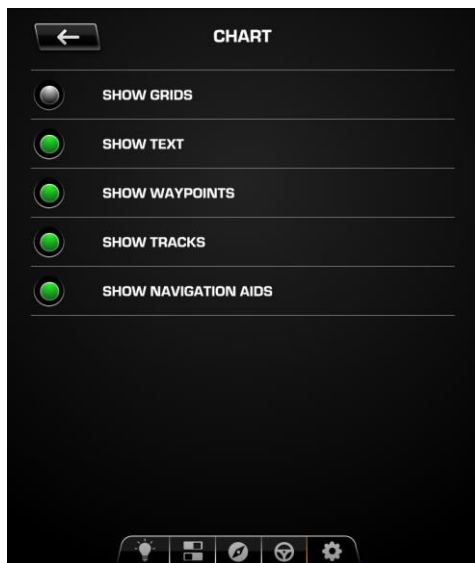
Touch Edit and the following screen will appear:



Touch  to edit the Waypoint name.

Touch an icon picture to represent the Waypoint.

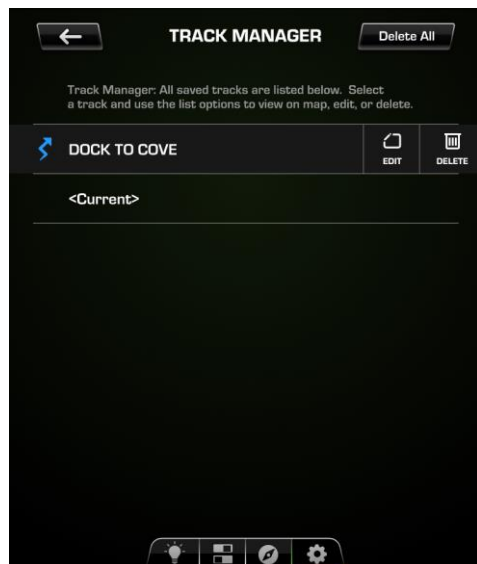
 will ask if the selected Waypoint should be deleted. Select the green check mark if yes, or the red X if no.



## Chart

This section allows you to choose if Grids, Text, Waypoints, Tracks and Navigation Aids will be shown on the Map.

Touch a radial button to select (show or green) or de-select (hide or gray).

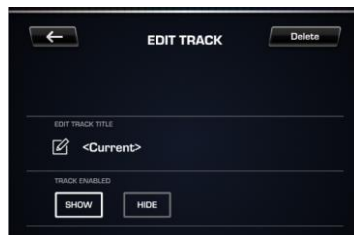


## Track Manager

This section provides a list of the previously saved Tracks and the current track being traveled.

Touch  to delete the existing Tracks.

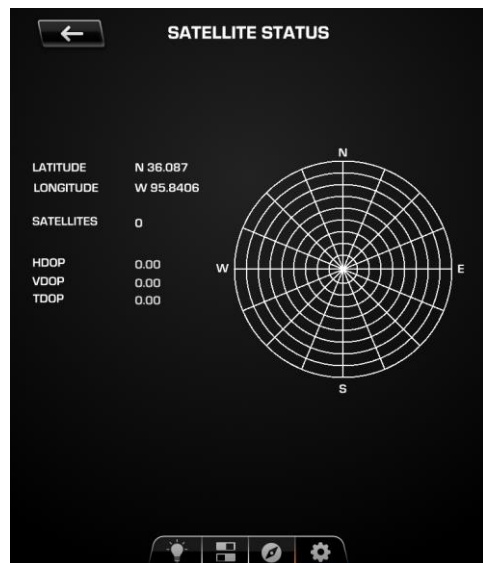
Touch Edit and the following screen will appear:



Touch  to edit the Track name.

Choose whether to  or  the Track.

Touch  to delete the Track.



## Satellite Status

This section shows all the detectable satellites transmitting signals in the boat's area.

## Ballast



The first section of this page controls how quickly the ballast fills and drains. Use the – and + buttons to establish the minutes and seconds for the Port, Center and Starboard ballast bags.

The second section concerns the Smart Plate™:

**Crossover Point:** Establish the percent of set speed at which the Smart Plate activates to the position set in the rider profile.

**Smart Plate Down:** Establish the percentage at which the Smart Plate will be tilted down when the speed is less than the crossover point.

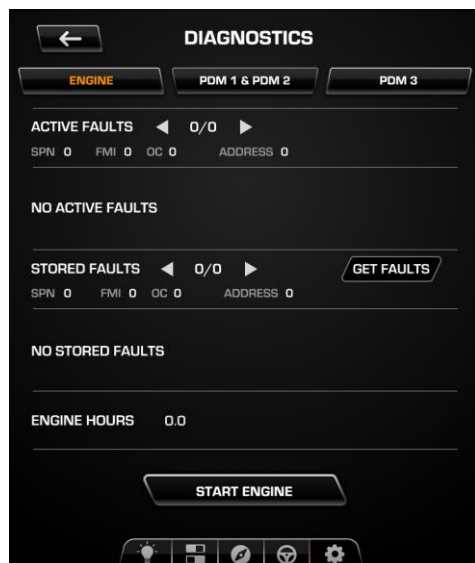
**Smart Plate Up:** Establish the percentage at which the Smart Plate will be tilted up when the speed is greater than 15 mph and the cruise is off.

**Supra Launch System:** enable (Dynamic or Fixed) or disable (Off) this system to be used as a launch aid when Swell Surf is turned off.

**Ballast Calibration:** when the ballast is full or empty and the display is showing that it is not full or empty, the ballast will need to be recalibrated. Touch the appropriate button that depicts the current state of the ballast and it will be calibrated (i.e., if the Port Ballast is full, touch Full. If it is empty, touch Empty).



# Diagnostics

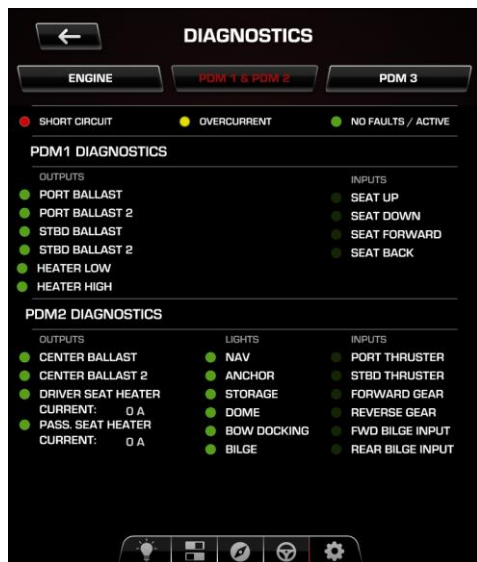


## Engine Diagnostics

This screen will display the active and stored faults for the engine. Touch Get Faults to retrieve any stored faults.

This screen also displays the Engine Hours accumulated for the engine.

The Start Engine button will start the engine when it is turned off and will be dimmed when the engine is turned on.



## PDM 1 & 2 Diagnostics

This screen provides diagnostics for the Power Display Module.



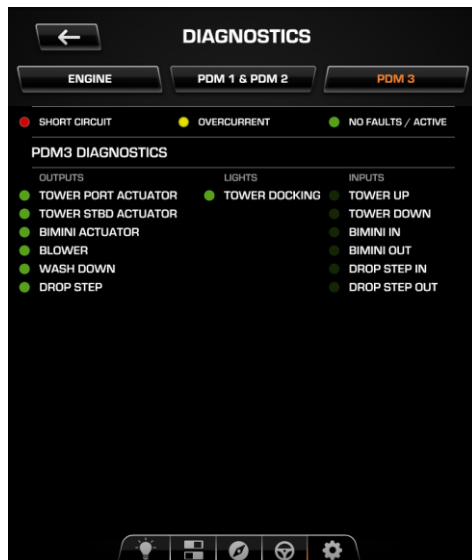
A red light means a short circuit is present.



A yellow light means there is an overcurrent.



A green light means there are no faults and the circuits are active.



## PDM 3 Diagnostics

This screen provides additional diagnostics for the Power Display Module.



A red light means a short circuit is present.

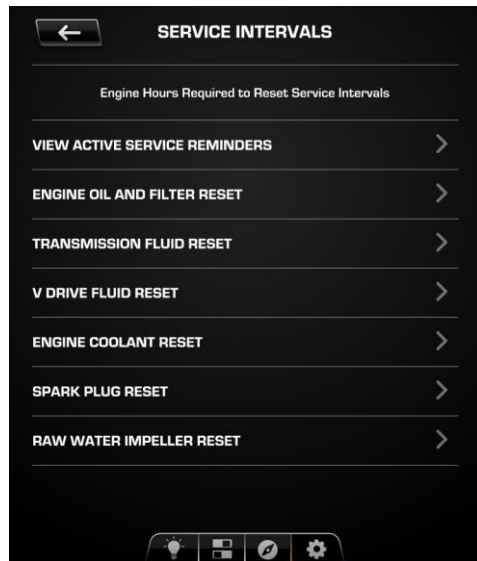


A yellow light means there is an overcurrent.



A green light means there are no faults and the circuits are active.

## Service Intervals



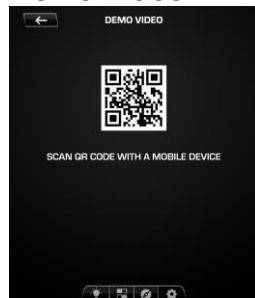
This screen allows the resetting of the service intervals. The ability to utilize the Engine Hours function is required to reset the service intervals.

When the service has been performed (i.e., engine oil and filter change), touch that selection and answer Yes to “Reset this interval?”

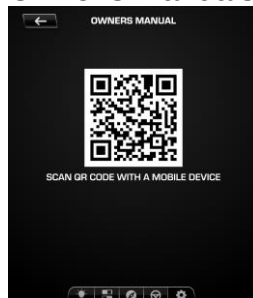
## QR Codes for Additional Information

Scan these QR codes with your mobile phone for additional information:

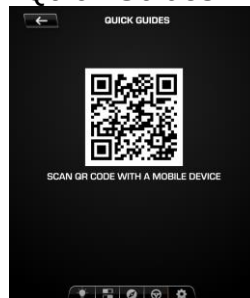
### Demo Video



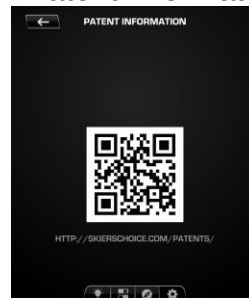
### Owner's Manuals



### Quick Guides



### Patent Information





## WSIA Information

View boating activities' safety information here.

## Cruise Control Mode

Select whether the Cruise Control will be controlled via Paddlewheel (water traversal) or GPS (satellite coordinates) signals. One might choose Paddlewheel if the GPS signal is weak or CAN signals were not working.



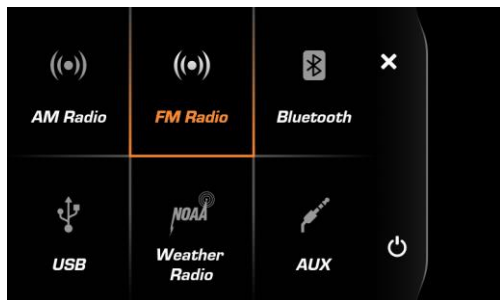
## S50 Features

### Source

The S50 serves as an additional display/controller for the Audio, Lights and Switches and System Info utilities.

Like the Audio function within the PV1100, the S50 allows the various sources to appear. Touch the SRC button to begin.

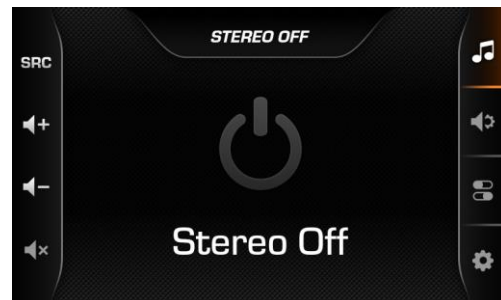
#### SRC (Source)



Touch this button to choose the source from which the music and weather sounds originate.

Touch the X to close this screen.

Touch  to power off the stereo.



### AM/FM Radio



AM and FM perform similar functions and will tune into radio stations.

 and  will reverse or advance to the next station.

 and  will fine-tune the radio signal.

### Bluetooth



The Bluetooth screen will display the currently playing music source from the device that is connected to the PV1100.

 and  will reverse to the previous song or advance to the next song.

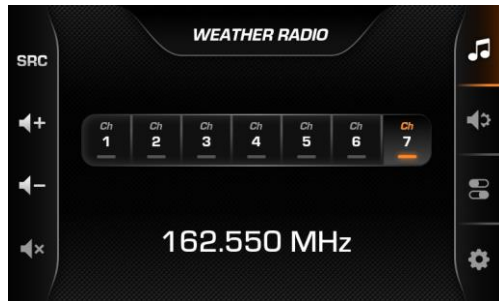
 /  will play or pause the current song.

## USB



Insert a USB drive that contains music files and select “Connect Device to USB Port”. The contents of the USB will appear on the screen with controls to play, pause, reverse and advance.

## Weather Radio



Seven pre-saved Weather channels are available to retrieve local weather conditions.

Touch a different channel to listen to varying reports.

Touch  to Mute, then touch  to unMute.

## AUX



Plug in an auxiliary media source and the content will begin playing automatically.

## Volume

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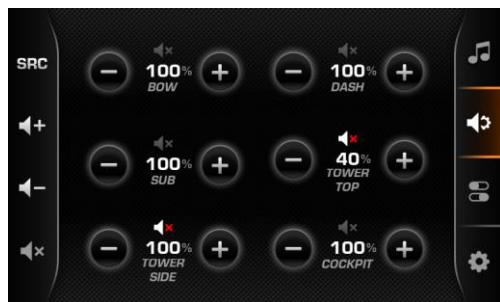
Touch  to increase the Master volume to your desired level.

Touch  to decrease the Master volume to your desired level.

Touch  and  to Mute/Unmute the Master Volume.

## Zone Volume

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To control the volume within individual zones, adjust by touching the – and + buttons for that zone. To Mute that zone, touch  and  to unMute.

## Lights and Switches

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Touch a light or switch to turn it (or All) on or off.

The Passenger seat has heating and cooling abilities and each with Off/Low/High settings. Touch repeatedly to adjust.

The Heater has Off/Low/High settings. Touch repeatedly to adjust.

There are 9 lights on the boat. 4 of them can be multi-color. To make each of the 4 have different colors, touch the specific light and select a color.

To make all 4 lights the same color, touch the color wheel beside All RGB. The following screen will appear:



Choose a light button at the top of the screen.

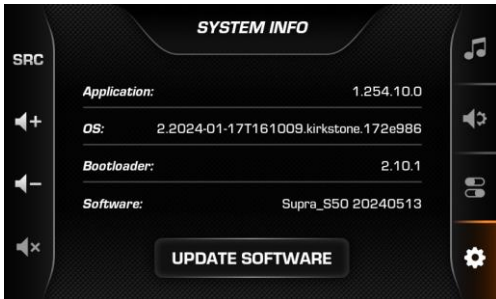
Choose a color and adjust the brightness by sliding the Brightness bar.

For a Strobe light effect, slide the switch to the right, or left to turn off.

Touch Done when complete.

## System Info

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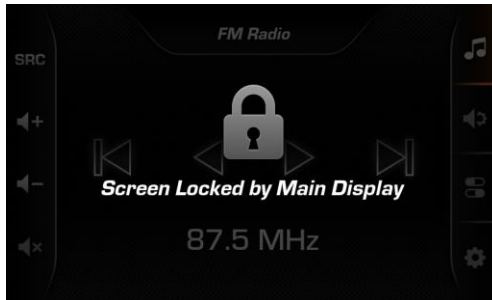


This screen will display the Application, OS, Bootloader and Software information for the display.

To update the software, insert a USB with the updated file into the USB pigtail specific to the S50 , touch Update Software and follow the prompts.

## Glove Box Lockout of S50

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When Glove Box Lockout is enabled on the PV1100, this screen will appear on the S50.

When the Glove Box Lockout is disabled, this screen will disappear and the normal functions will be available again.

## 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 or touch the screen 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 8-9 Volts.
5. If a message appears on the 11-inch display of "Ignition is Off", turn off the battery switch on the tower to shut down the system and begin the rebooting process.

### **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.

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