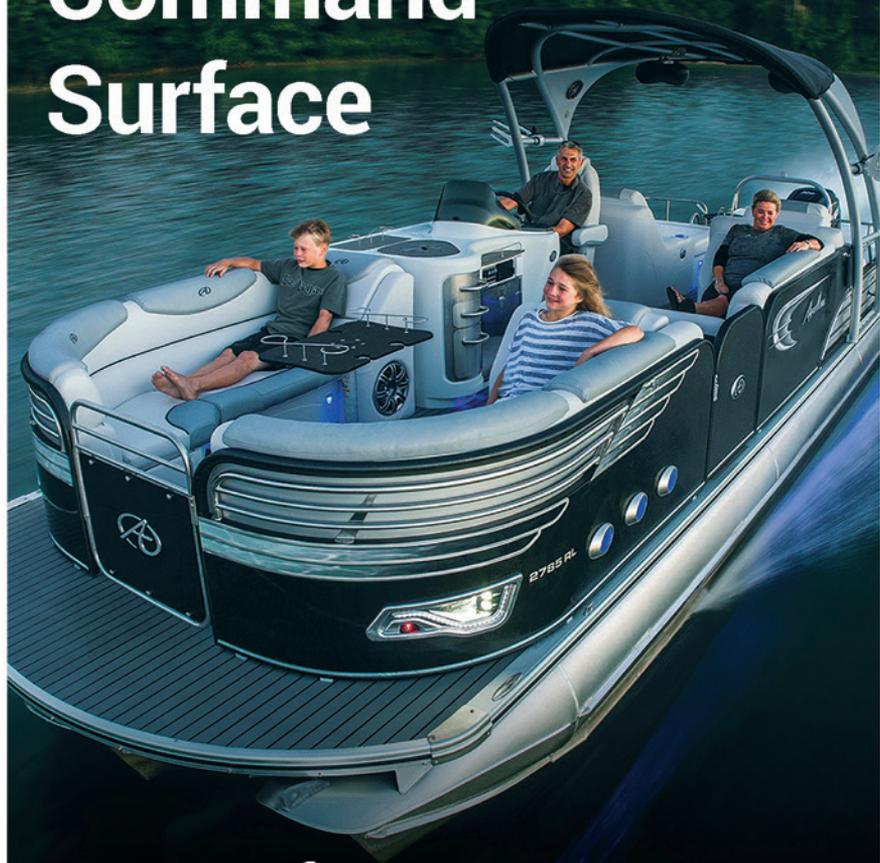


# Luxury Command Surface



*Avalon*

# User Guide

## TABLE OF CONTENTS

Table of Contents	pg. 2
System Overview	pg.3
12.3" Viper II Display	
Top Level Controls	pg. 3
Media Screen	pg. 4-7
Depth Screen	pg. 8
Gauge Screen	pg. 8-9
Optional Mercury Engine Speed Control	pg. 9-10
7.0" Display	
Top Level Controls	pg. 11
Map Screen	pg. 11-20
Stereo Screen	pg. 20-23
Lighting Control Screen	pg. 23
Display Settings	pg. 24-29
Power Module	pg. 30-31

## SYSTEM OVERVIEW

Two high-resolution touch control displays bring more features to the surface providing an unmatched user experience. The system architecture combines an industry leading 12.3" and a 7.0" LCD placing the most commonly used controls and information on the top surface.

Critical information including engine performance, fuel level and depth is always in view or just a touch away. The center of each window screen swaps out with a touch of the top level destination page buttons.

## 12.3" DISPLAY TOP LEVEL CONTROLS



- |                                 |                             |
|---------------------------------|-----------------------------|
| 1- Seek Forward                 | 10- Depth Page              |
| 2- Seek Back                    | 11- Gauges Page             |
| 3- Mute                         | 12- GPS Clock               |
| 4- Volume Up                    | 13- System Voltage          |
| 5- Volume Down                  | 14- Engine Temp (80°-240°F) |
| 6- Drive Trim Position (0-100%) | 15- Fuel Level              |
| 7- Total Fuel Consumption Rate  | 16- Vessel Speed (0-70MPH)  |
| 8- Vessel Speed from GPS        | 17- Engine Speed (0-7000)   |
| 9- Media Page                   | 18- Engine Voltage (8-18)   |

## ALERTS



- 1- Warning Triangle Icon / Button
- 2- Acknowledgment Button
- 3- MIL Indicator (will present for 3 seconds when display powers up)

## MEDIA SCREEN

View a PDF document or video from an SD card or USB. This feature functions ONLY when the engine is OFF



- 1- Camera #1
- 2- Camera #2
- 3- Media Player
- 4- File Transfer
- 5- PDF Viewer

## CAMERA #1 & #2

Camera buttons will display video feed from the analog video inputs into the display. There is no recording or audio capability to these inputs.



## MEDIA VIEWER

The **MEDIA** button will allow the user to and play videos that have been stored on the SD card in the Display folder. Touch the name of the desired file to play.



1- Exit Player

2- Play All Videos

3- Play/Pause Video

4- Repeat Video

5- Next Video

6- Last Video

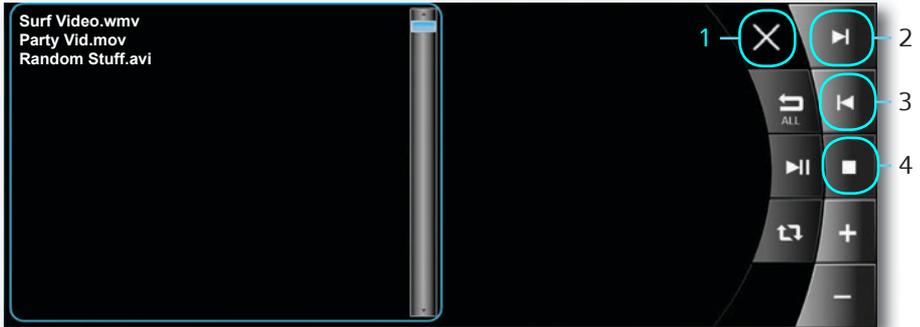
7- Stop Video

8- Volume Up

9- Repeat Video

## PDF VIEWER

The **PDF** button will allow the user to view pdfs that have been stored on the SD card in the **DISPLAY** folder. Touch the name of the desired file to open.



1- Exit Viewer

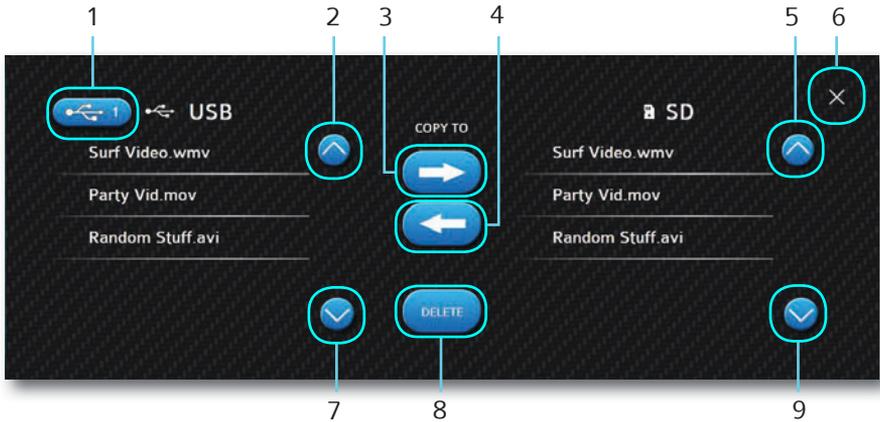
2- Next PDF

3- Last PDF

4- Stop Viewing

## FILE TRANSFER

Move Files from USB input device to SD Card. Highlight file to be deleted or copied. USB 1 input is located in the starboard side helm storage. The optional USB 2 (if installed) will be located in the glove box. Wait sufficient time for larger files to transfer.



1- Select USB 1 & 2

2- Scroll Up

3- Copy to SD

4- Copy to USB

5- Scroll Up

6- Exit

7- Scroll Down

8- Delete Selected File

9- Scroll Down

## DEPTH SCREEN

Touch the **DEPTH** button at the top of the screen to view a graphical representation of depth in addition to WATER, AIR TEMP, bluetooth information and clock. The **DEPTH** button shows actual current depth ready from the transducer. "--" is displayed if the data is not available.

A SHALLOW WATER ALARM sounds and a NOTICE is displayed when the water depth is less than the shallow setting. The shallow water level is adjusted in the settings menu. English or Metric units are selected in the settings menu. The scrolling graph on the left provides a visual of depth history.



## GAUGE SCREEN

The gauge page provides digital engine parameters for monitoring engine performance. Touch and Hold the **SERVICE** button to reset hours.



## OPTIONAL TWIN ENGINE



## OPTIONAL MERCURY ENGINE SPEED CONTROL

Automatically maintain a consistent boat speed and launch acceleration. When SPEED CONTROL is **ON** and **ENGAGED**, the cruise control system will control the speed of the boat. Pulling the throttle to neutral will bring the engine to idle any time **CRUISE** is **ENGAGED**. Touch **SPEED UP** and **SPEED DOWN** arrows to adjust the cruise setpoint anytime speed control is **ON**.

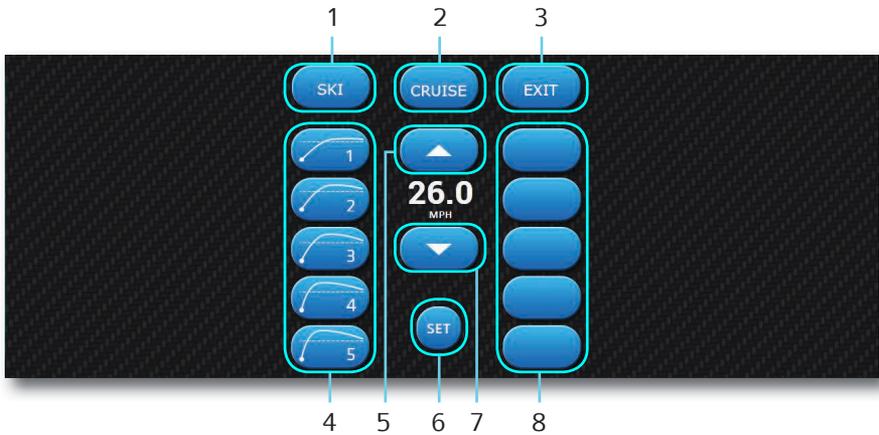


- 1- Cruise On/Off
- 2- Cruise Speed Increase
- 3- Set Cruise Speed

- 4- Cruise Speed Decrease
- 5- Mode Menu

## SKI MODE (MERCURY ONLY)

Controls vessel speed and acceleration profile.



1- Ski Mode

2- Cruise Mode

3- Exit

4- Launch Profiles

5- Set Speed Increase

6- Set Speed Decrease

7- Set Speed

8- Presets (Press and Hold to Save Current Settings)

## CRUISE MODE (MERCURY ONLY)

Controls vessel speed, but does not control acceleration.



## 7.0" DISPLAY TOP LEVEL CONTROLS



- |                                       |                        |
|---------------------------------------|------------------------|
| 1- Seek Forward                       | 7- Stereo Page         |
| 2- Seek Back                          | 8- Controls Page       |
| 3- Mute                               | 9- Day/Night Backlight |
| 4- Volume Up                          | 10- Settings Tab       |
| 5- Volume Down                        |                        |
| 6- Map Page (Actual Heading from GPS) |                        |

## MAP SCREEN

The Navionics Navigation System uses GPS (Global Positioning System) satellites, and a map database to calculate and display route directions. SD Card with Map Data is required. The **MAP** button shows actual current bearing from the GPS. "--" is displayed if the data is not available.



## MAP DATA

When a Navionics SD card is loaded into the MAP SD Slot of the Viper II System controller, map data available will appear as a bunch of purple boxes on the map. If the purple squares do not appear on the map, the card is missing, not installed correctly, not loaded with information or possibly defective.



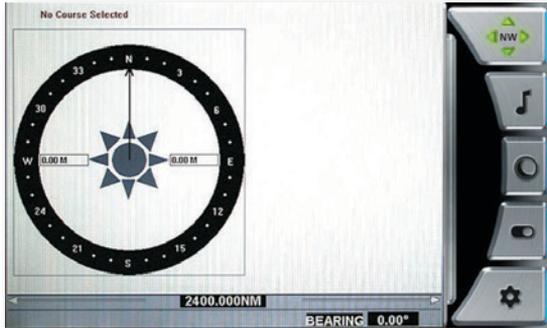
## NAVIGATION CONTROLS

Touch **ANYWHERE** ON THE MAP to activate the pop up controls. Touch the **SIX DIRECTIONAL ARROW** buttons along the perimeter of the map window to position the cursor. Touch the **RETURN** button to return the cursor to the **CURRENT LOCATION** and the **+/-** buttons to **ZOOM IN/OUT**.



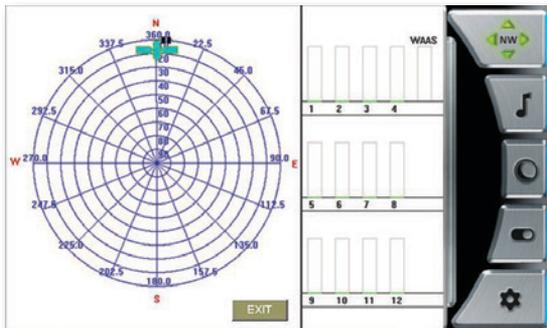
## BEARING

Touch the **NORTH / BEARING / COMPASS** button to change the method of TRACKING position. NORTH is always at the top when NORTH is selected. The BEARING is always pointing to the top of the screen and in the direction the boat is traveling when BEARING is selected.



## COMPASS

A COMPASS replaces the map when COMPASS is selected. Touch the **GPS** button to view available SATELLITE STATUS. IT CAN TAKE SEVERAL MINUTES FOR GPS SATELLITES TO LOCATE AND POSITION THE BOAT ON THE MAP.



## WAYPOINTS

Touch the **WAYPOINT** button to place a waypoint at the cursor position. Position the cursor over the waypoint to **EDIT**, **MOVE** or **DELETE** it. Choose a **WAYPOINT ICON** to mark the waypoint with a meaningful reminder.

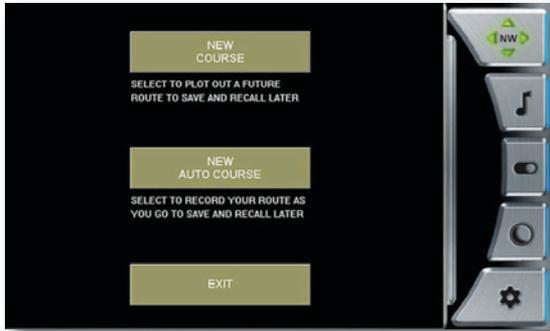


## COURSE

Touch the **COURSE** button to **SELECT**, **CREATE**, **STOP** or **CANCEL** a course.

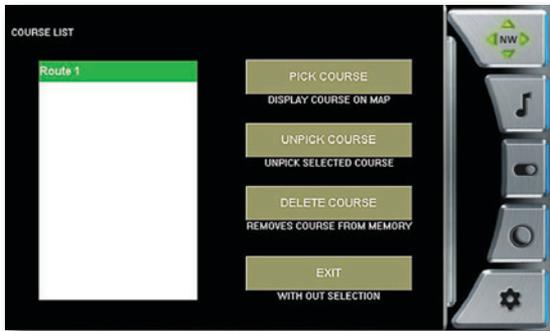


NEW AUTO COURSE records the actual route the boat is traveling to be saved and recalled later. NEW COURSE allows the user to build a future course of NEW user created waypoints.



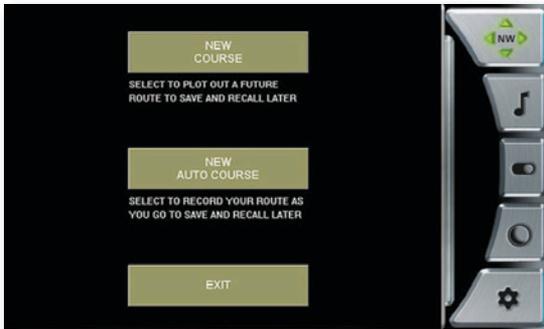
### SELECT COURSE

Touch the **COURSE** then **SELECT** button to PICK, UNPICK or DELETE a course. Picking a course will display the course on the map. Multiple courses can be displayed on the map.



## NEW COURSE

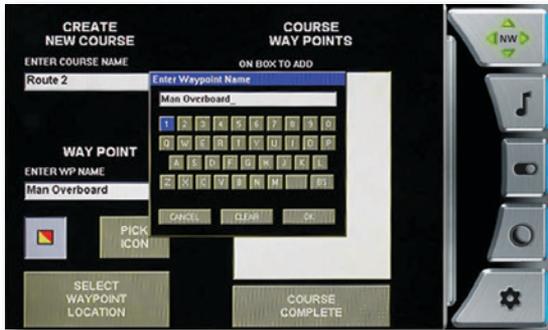
TO begin, touch **COURSE**, then **NEW**, and then **NEW COURSE**.



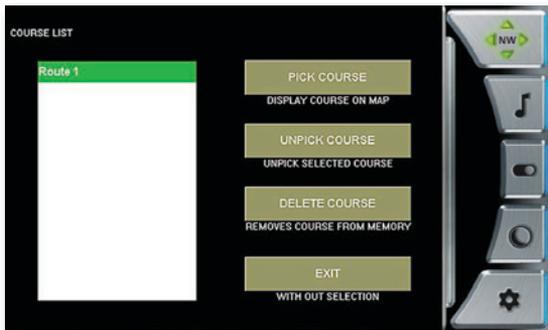
Touch **SELECT WAYPOINT LOCATION**, then position the cursor on the map for the first waypoint.



The last waypoint must be a **COURSE COMPLETE** waypoint to finalize the course. A course cannot be changed or edited once created.

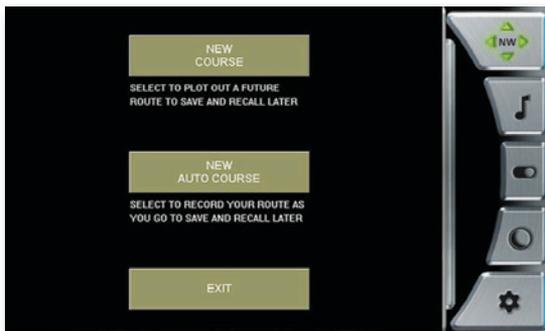


Touch the **COURSE** then **SELECT** button to PICK, UNPICK or DELETE a course. Picking a course will display the course on the map. Multiple courses can be displayed on the map.



## NEW AUTO COURSE

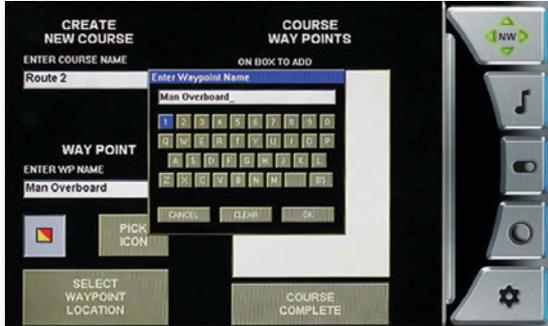
NEW AUTO COURSE records the actual route the boat is traveling to be saved and recalled later. NEW COURSE allows the user to build a future course of NEW user created waypoints. TO begin, touch **COURSE**, then **NEW**, and then **NEW COURSE**.



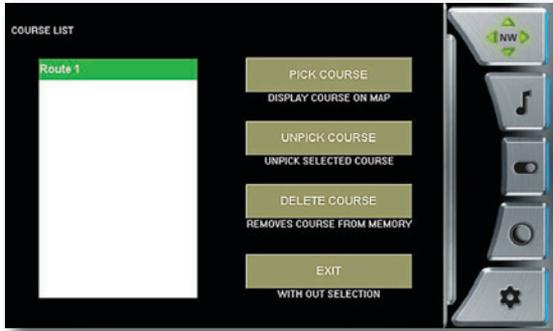
Touch **SELECT WAYPOINT LOCATION**, then position the cursor on the map for the first waypoint.



Touch the **WAYPOINT** button. Choose an icon and name for the waypoint. Continue with this same procedure to create all remaining waypoints. The last waypoint must be a **COURSE COMPLETE** waypoint to finalize the course. A course cannot be changed or edited once created.

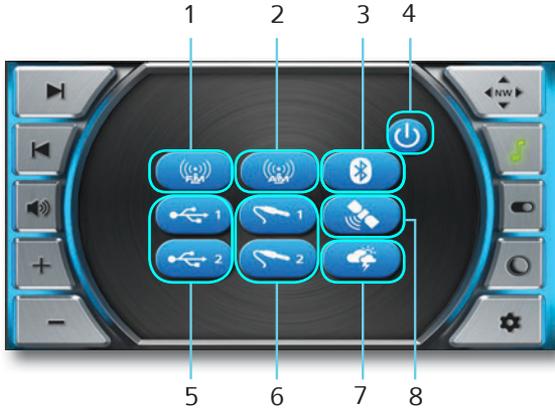


Touch the **COURSE** then **SELECT** button to PICK, UNPICK or DELETE a course. Picking a course will display the course on the map. Multiple courses can be displayed on the map.



## STEREO SCREEN

Select direct access to certain audio controls including AM/FM stereo channels, Bluetooth wireless, Satellite, USB and Auxiliary input ports.



- 1- FM Radio
- 2- AM Radio
- 3- Bluetooth
- 4- Power

- 5- USB Inputs
- 6- Auxiliary Inputs
- 7- Weather
- 8- Satellite Radio

## AM & FM RADIO

Touch **AM RADIO** or **FM RADIO** for AM/FM stereo channels.



1- Source Select

2- Favorite's Scroll

3- Power

4- Equalization Adjustment

5- Stereo Menu

6- Seek Forward/Back

## BLUETOOTH

Touch **BLUETOOTH** to play songs on your phone or mobile device with Bluetooth wireless technology.



## USB 1 & 2 INPUTS

Touch **USB 1** or **USB 2** to access USB input ports.



## AUXILIARY INPUT

Touch **AUXILIARY 1** or **AUXILIARY 2** to access auxiliary input ports.



## WEATHER

Touch **WEATHER** for satellite weather stations.



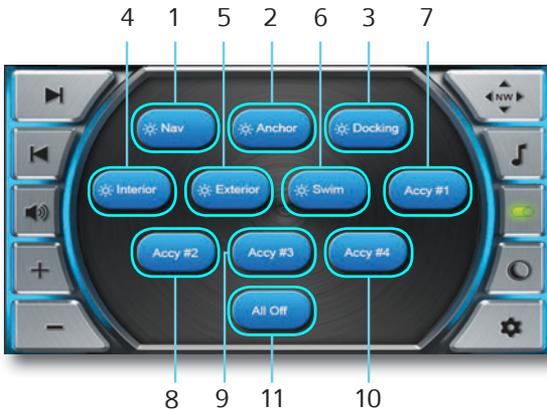
## SATELLITE RADIO

Touch **SATELLITE** for satellite radio stations.



## LIGHTING CONTROL SCREEN

Touch the **LIGHTING CONTROL** button to Manage navigation and accent lighting.



- 1- Navigation Lights Switch
- 2- Anchor Lights Switch
- 3- Docking Lights Switch
- 4- Interior Lights Switch
- 5- Exterior Lights Switch

- 6- Swim Lights Switch
- 7- Accy #1
- 8- Accy #2
- 9- Accy #3
- 10- All Active Switches Off

## DISPLAY SETTINGS

Touch the **SETTINGS** button manage system settings, options, troubleshooting, and software updates here. View the available settings list with the **SCROLL BAR** on the right side of the screen and touch an item on list to **VIEW** available **SETTINGS CHOICES**. Changes will automatically be saved upon leaving the **SETTINGS** screen.



## BLUETOOTH

Touch **BLUETOOTH** to control the on-board stereo and play songs on your phone or mobile device with Bluetooth wireless technology.



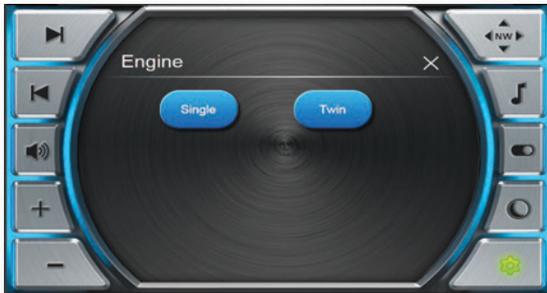
## ABOUT

Touch **ABOUT (UPDATE)** to view the installed software version and instructions for how to install a software update here. During the update process ensure stable power to the display and do not interrupt the process. After pressing "Update" wait for up to 30 seconds and the counter will show update progress. After progress reaches 100%, reboot system.



## ENGINE SELECT

Touch **ENGINE** to select between **SINGLE** and **TWIN** engine.



## UNITS

Touch **UNITS** to choose from ENGLISH to METRIC units.



## DEPTH ALARM

Touch **DEPTH ALARM** to adjust the SHALLOW DEPTH ALARM setting. Setting to 0' will disable the alarm.



## AIR TEMP OFFSET

Touch **AIR TEMP OFFSET** to calibrate the ambient air temperature sensor offset.



## BACKLIGHTING

Touch **BACKLIGHTING** to adjust the BRIGHTNESS setting from 0-100% of the display in DAYTIME and NIGHT MODES. The **NIGHT** button on the display toggles between the two settings.



## FUEL CALIBRATION

Touch **FUEL CALIBRATION** to calibrate fuel tank levels. Calibration will not take full effect until all three points here are calibrated. The fuel alarm defaults to **ON** when the display is turned **ON**. The alarm can be disabled by turning the switch **OFF**. If the display is turned **OFF** the alarm will return to it's defaulted **ON** position.



## SYSTEM DIAGNOSTICS

Touch **SYSTEM DIAGNOSTICS** to be provided troubleshooting information by a trained technician.



## TIME ZONE SETTINGS

Touch **TIME ZONE SETTINGS** to select time zone.



## TRIM CALIBRATION

Touch **TRIM CALIBRATION** to calibrate port and starboard side trim tabs.



## POWER MODULE

The loads in your boat controlled from the touch screen display are powered by a power module. In the event the touch screen control is unusable each load can be manually operated by moving the fuse to the bypass position on the power module. Remove cover by lifting the tabs.

