

# SUPER AIR NAUTIQUE G21, G23, G25



#### PRODUCT INFORMATION

The Nautique LINC 3.0 system is designed for instrumentation and control on electronically controlled engines communicating via SAE J1939 and NMEA 2000. The display is a multifunctional tool that provides GPS tracking, multimedia display, speed control, and enables equipment operators to view many different engine parameters and service codes.





#### **USER INTERFACE - GENERAL LAYOUT**

**STATUS BAR** - This area always displays the activated User Profile, time, current stereo source, engine temperature, oil pressure, voltage, and RPM. The operator can tap on the engine temperature, oil pressure, or voltage for a numerical readout of that particular gauge. This area will also display an icon for Surf Select if that setting is turned on.

**AREA FOR CRITICAL GAUGES & SETTINGS** - This area displays the volume level, current speed, set speed, speed control on/off, fuel gauge, and depth gauge. This area also duplicates the 5 buttons on the Helm Command.

**MENU WHEEL** - Different menus can be selected here by tapping individual menu icons or by rotating the Helm Command knob if the Menu Wheel is highlighted. There are 7 menus: Home, Media, Ballast, Switching, User, Map, and Preferences). The middle icon of the Menu Wheel shows which menu is currently being viewed.

TAB BAR - The tab bar changes depending on the current menu. Each tab contains a separate page of information that relates back to the current menu. Menus contain either 2, 3 or 4 unique tabs.

VIEWING AREA OF CURRENT MENU & TAB - Each tab under every menu displays unique information, settings, and functions in this area (which can be referred to as a "page"). Most settings and functions are illustrated here as a stack-up of smaller horizontal bars with curved ends.





#### USER INTERFACE - FULL SCREEN PAGE LAYOUT

Certain menus and tabs will adjust the appearance of the user interface in order to increase the **VIEWING AREA OF THE CURRENT MENU & TAB**; these are called "full screen pages". Examples of full screen pages include the following:

Media Menu - Audio Setup and Zone Control (if equipped) tabs

Ballast Menu - Overhead tab

Switching Menu - Features tab

User Menu - New User tab and Edit User mode

Map Menu - Full Map tab

Preferences Menu - System tab, diagnostic pages and dealer menu pages

Full screen pages will slightly re-position critical gauges and settings to the top and bottom of the screen. Current speed and volume level move to the top in the STATUS BAR whereas the depth and fuel gauges move to the bottom in the TAB BAR.





#### TOUCHSCREEN DISPLAY

LINC 3.0 features a 7" touchscreen display. Operators can easily change settings and viewed information by tapping certain touchpoint icons on the screen. When the display recognizes that the operator has touched the screen, a small, grey, circular graphic will appear at the location where the operator has touched.

Operators can also scroll and swipe certain functions, lists and menus on the touchscreen display, like the Full Map page (see image above).

To ensure proper use, make sure that hands and fingers are dry and clean of any oils or lotions before touching the display.



## LINC 3.0

## OVERVIEW



#### HELM COMMAND

In addition to the touchscreen, the LINC 3.0 interface can also be fully controlled with the Helm Command (pictured above) located on the driver's armrest adjacent to the throttle arm.

Helm Command features a machined, aluminum knob. This knob is able to 1) rotate clockwise and counterclockwise, 2) tilt up, down, left and right like a joystick and 3) can be pressed down like a button. The functions of each of the three physical actions listed above can change depending on the particular menu that is displayed.

A black, rubber keypad surrounds the knob with 5 different buttons. These buttons act like shortcuts, or hotkeys, and allow the user to quickly jump to certain menus, tabs and frequently used settings.

Please see the following for a step-by-step instruction on how to use Nautique's Helm Command with the user interface.





#### USING HELM COMMAND - ROTARY KNOB

When LINC 3.0 has completed its start-up sequence, a "highlight" will appear over the Menu Wheel. This highlight is similar to a computer cursor; it shows the current position for user interaction and it will respond to input from the rotary knob or the 5 buttons on the Helm Command unit. The highlight will stay in the same location until it is moved to a new function/setting or until a new Menu or tab is selected.

When the highlight is over the Menu Wheel, simply rotate the Helm Command knob clockwise or counter-clockwise to view another menu (see fig. A below).



FIG. A - ROTATING CLOCKWISE FROM THE HOME MENU TO THE MEDIA MENU



#### USING HELM COMMAND - ROTARY KNOB (CONTINUED)

To return to a previously viewed menu, simply rotate the knob the opposite way. The menu will appear with the tab that was last selected (see Fig. B below).



FIG. B - ROTATING COUNTER-CLOCKWISE BACK TO THE HOME MENU FROM THE MEDIA MENU

To move the highlight to the page area of the screen (to the left side), the operator can either press down on the knob or can joystick over to the left. (See Fig. C below)





#### USING HELM COMMAND - ROTARY KNOB (CONTINUED)

After moving the highlight to the page area, the operator can select functions/ settings by pushing down on the knob. (see Fig. D below). This will change the background color behind the function/setting to white to increase visibility over the other functions/settings.



FIG. D - PUSHING DOWN TO SELECT A SETTING (THE NSS SETTING IN THIS EXAMPLE)

When a setting is selected, simply rotate clockwise or counter-clockwise to increase or decrease that setting. In Fig. E below, the operator has rotated counter-clockwise twice to change the NSS Setting to "0". When an ON/OFF function (like NSS in Fig E. below) is selected, rotate clockwise to tun ON or rotate counter-clockwise to turn OFF.



FIG. E - ROTATING COUNTER-CLOCKWISE TO DECREASE A SETTING



#### USING HELM COMMAND - ROTARY KNOB (CONTINUED)

When the operator is comfortable with where the setting is at, he/she may push down on the knob to de-select from the setting (see Fig, F below).



FIG. F - PUSHING DOWN TO DE-SELECT A SETTING (THE NSS SETTING IN THIS EXAMPLE)

The operator may now rotate the knob to highlight another setting. In the image below (Fig. G) the operator has rotated counter-clockwise twice to highlight the NCRS Setting



FIG. G - ROTATING COUNTER-CLOCKWISE TO HIGHLIGHT A DIFFERENT SETTING



#### USING HELM COMMAND - ROTARY KNOB (CONTINUED)

Once again, an operator can select functions/settings by pushing down on the knob; in Fig G. below the operator has selected the NCRS setting.



FIG. G - PUSHING DOWN TO SELECT A SETTING (THE NCRS SETTING IN THIS EXAMPLE)

When a setting is selected, simply rotate clockwise or counter-clockwise to increase or decrease that setting. In Fig. E below, the operator has rotated clockwise twice to increase the NCRS Setting to "5".



FIG. H - ROTATING CLOCKWISE TO INCREASE A SETTING



#### USING HELM COMMAND - ROTARY KNOB (CONTINUED)

As mentioned previously, when the operator is comfortable with where the setting is at, he/she may push down on the knob to de-select from that setting (see Fig, F below).



FIG. I - PUSHING DOWN TO DE-SELECT A SETTING (THE NCRS SETTING IN THIS EXAMPLE)



#### USING HELM COMMAND - BUTTON SHORTCUTS

A black, rubber keypad surrounds the knob with 5 different buttons. These buttons act like shortcuts, or hotkeys, and allow the user to quickly jump to certain menus, tabs and frequently used settings.



The Volume, User and Speed Control buttons will each open up a unique pop-up menu when pressed. Each of those pop-up menus will close when that same button is pressed again.



#### **USING HELM COMMAND - VOLUME BUTTON**

Pressing the Volume button opens a pop-up to allow the operator to quickly change the volume and the track from any menu (see Fig. J).



FIG. J - POP-UP AFTER PRESSING THE VOLUME BUTTON ON HELM COMMAND

Once the Volume pop-up appears, the operator can perform the following functions:

**Changing the Volume** - by either rotating the Helm Command knob either direction or by pressing the plus and minus icons via touchscreen

**Pause/Play (or Mute/Un-mute)** - by pressing down on the Helm Command knob or by pressing the pause icon via touchscreen.

**Changing the Track (or Frequency)** - by either joysticking the Helm Command knob either left or right, or by pressing the next track and previous track icons via touchscreen

**NOTE:** If the "stereo is off" is listed in this pop-up , simply press down on the knob to turn the stereo on.



#### USING HELM COMMAND - USER BUTTON

Pressing the User button opens a drop-down menu to allow the operator to quickly view current user settings and switch user profiles (see Fig. M).



FIG. M - DROP-DOWN MENU AFTER PRESSING THE USER BUTTON ON HELM COMMAND

Once the User drop-down menu appears, the operator can perform the following functions with the Helm Command knob or via the touchscreen:

**Save Altered** - This will save any altered settings, which are noted by "!" icons, to the current user profile.

**Exit** - This will exit out of the User drop down menu and return to the previous screen.

**Switching to a Different User Profile** - Four of the most recently activated user profiles will be listed towards the bottom of the drop down menu. The boat will immediate adjust to new settings if one of those four profiles are selected from this menu.



#### USING HELM COMMAND - SPEED CONTROL BUTTON

Pressing the Speed Control button opens a pop-up to allow the operator to quickly change the set speed from any menu (see Fig. N).



FIG. N - POP-UP AFTER PRESSING THE SPEED CONTROL BUTTON ON HELM COMMAND

Once the Speed Control pop-up appears, the operator can perform the following functions:

**Changing the Set Speed** - by either rotating the Helm Command knob either direction or by pressing the plus and minus icons via touchscreen

**Speed Control On/Off**- by pressing down on the Helm Command knob or by pressing the pause icon via touchscreen.



#### USING HELM COMMAND - TAB BUTTON

Pressing the Tab button will change the currently viewed page from the current tab to the next tab. Pressing the tab button multiple times will cycle through all of the tabs. The two screenshots below illustrate an example of pressing the Tab button on the Home menu.





FIG. O - PRESSING THE TAB BUTTON ON HELM COMMAND TO CHANGE TO THE "VITALS" TAB



#### USING HELM COMMAND - HOME BUTTON

Pressing the Home button will always take the operator back to the Home menu so that he/she can have quick access to vital settings and gauges. The two screenshots below illustrate an example of pressing the Home button to transition from the Ballast menu to the Home menu.





FIG. P - PRESSING THE HOME BUTTON TO RETURN TO THE HOME MENU





FIG. Q - NCRS/NSS TAB ON THE HOME MENU

#### NCRS / NSS TAB

This tab will appear if the set speed is in an optimal range for surfing, which is <u>below</u> 13.0 mph (20.9 kph).

This tab is dedicated to displaying NCRS (Nautique Configurable Running Surface) and NSS (Nautique Surf System) settings. NCRS and NSS are used to adjust the shape of the wave for different surfing preferences.

NSS Setting - used to adjust steepness. 5 is associated with the most vert wakesurf wave, and is also the most likely to be "washy" due to how steep the wave is. Having an NSS setting of 0 would create the mellowest or most ramp-like wakesurf wave, which would also create the "cleanest" wakesurf wave. The factory NSS setting has been set to 0 because with factory ballast, this creates the best all-around wave for the user.

NSS - turns the Nautique Surf System On and Off. In the screenshot above, NSS is On.



#### NCRS / NSS TAB (CONTINUED)

NCRS Setting - used to control steepness and can be used in conjunction with NSS setting. As with NSS, having an NCRS setting of 5 would create the steepest wakesurf wave. An NCRS setting of 0 would create the most ramp-like wave. Unlike NSS, an NCRS setting of 5 tends to create the cleanest wave and having a NCRS setting of 0 tends to create a wave more likely to "wash out".

Surf Side - displays which side the surf wave is on. The wave icon with the arrow pointing to the left indicates the Port side and the wave icon with the arrow pointing to the right indicates the Starboard side (driver's side). In the screenshot, the surf wave is set on the Port side. To change which side the surf wave is on, simply press the surf wave icon that is not highlighted. If the operator presses the surf wave icon that is not highlighted while driving at set speed, the surf wave will quickly move to that side.

Please note that in the screenshot the actual speed is listed at 0.0 mph, meaning the boat is not moving and is not traveling at the set speed of 11.2 mph. Because the boat is not set speed, the NSS Setting and NCRS Setting numbers are shown in an Orange color; this is to let the operator know that the NSS and NCRS plates are not at their set position. When set speed is achieved, those numbers will change to a light blue/white color to notify the user that those plates have moved to their set position. Changing the NSS or NCRS settings before the boat is close to set speed (while NSS and NCRS numbers are orange) will have no immediate effect on the shape of the wave.





FIG. R - NCRS TAB ON THE HOME MENU

#### NCRS TAB

This tab will appear if the set speed is in an optimal range for wakeboarding, which is <u>at or above</u> 13.0 mph (20.9 kph). This tab is dedicated to displaying the two NCRS (Nautique Configurable Running Surface) settings.

The Nautique Configurable Running Surface (NCRS) system is an active vessel control system that uses the Nautique Hydro-Plate (shown in Fig. ?) to change the attitude or running angle of the boat based on user setting, ballast levels, and dynamic conditions. By controlling the boat's attitude, the NCRS system aids in planing, helps keep the boat on plane in tight turns, and reduces bow rise for improved visibility. NCRS also functions as a wake shaping device. By varying the NCRS Setting from 0 to 5, the user can transform the shape of the wake from a rounded mellow ramp to a pro level lip in seconds.



FIG. S - NAUTIQUE HYDRO-PLATE (LOCATED AT THE REAR OF THE BOAT)



#### NCRS TAB (CONTINUED)

The user has two settings he or she can use to interact with the NCRS system, along with Speed Control On/Off which also affects the NCRS control. For most effective NCRS response, toggle Speed Control to ON. The user should ask these two questions to decide how to set the NCRS:

# Do I want the Hydro-Plate to help in planing and staying on plane in tight turns?

NCRS Auto – Off/Low/High - this allows the user turn on the Auto Deploy feature which will move the Hydro-Plate to position targets based on NCRS Auto setting, ballast levels, and dynamic conditions

a. Off - the Hydro-Plate will remain at the NCRS Setting position

b. Low - the Hydro-Plate will move up or down in smaller increments to help the boat get on plane quickly and stay on plane in tight turns. This setting is recommended for boats that are lightly loaded and have a small number of passengers

c. High - the Hydro-Plate will move up or down in larger increments to help the boat get on plane quickly and stay on plane in tight turns. This setting is recommended for boats that are heavily loaded and have a large number of passengers

## How large/steep do I want the wake once my desired speed is reached?

**NCRS Setting** – This allows the user to enter a value of 0 to 5 which controls the Wake Size/Shape by controlling the final Hydro-Plate position once the boat has reached its desired Set Speed.

a. 0 - Smallest and Most Rounded Shaped Wake

b. 5 - Largest and Most Vert Shaped Wake





FIG. T - VITALS TAB ON THE HOME MENU

#### VITALS TAB

This tab displays all of the vital engine gauges and system information for the boat in a large, easy to read format. This includes:

Engine temperature Engine oil pressure Battery charging voltage Engine RPM Air Temperature Water Temperature

The tab also includes the Speed Control On/Off so that users can quickly turn that on or off as needed.





FIG. U - RIVER MODE TAB ON THE HOME MENU

#### RIVER MODE TAB (APPEARS ONLY IF TURNED ON\*)

**\*NOTE:** River Mode is turned on/off from the Preferences Menu, under the Settings tab. River Mode is turned off by default.

LINC's River Mode is a feature that allows the driver to keep the boat's speedover-water constant at the push of a button when a current is present. To compensate for the current, the boat's speed-over-ground or "GPS speed" must be adjusted up or down, depending on the direction of the boat relative to the current. River Mode has two key settings:

**River Current** - should be pressed when driver is changing directions from traveling against-the-current to traveling with-the-current, or vice versa.

**River Offset** - should be adjusted up or down to equal the estimated current speed. This offset number will be added to or subtracted from the GPS speed depending on the River Current direction.

When in River Mode, the number displayed as the current speed (shown as the big, white 11.2 in the above example) is the speed-over-water. Speed-over-water is the GPS speed (11.7 mph in the above example) plus or minus the River Offset number (-0.5 in the above example, since the boat is traveling with the current flow).





FIG. V - MAIN TAB ON THE HOME MENU

#### MAIN TAB

The Media Menu provides universal control to the audio system, containing all of the same controls and settings as the stereo head unit.

The Main tab contains the following items, in order from top to bottom:

#### Currently playing track and artist (or radio station)

**Previous Track/Next Track (or seek backward/seek forward)** - skips to the previous song or the next song if using Bluetooth or USB inputs (or it will change the frequency/channel if using AM, FM or SirusXM radio inputs)

**Play/Pause (or Unmute/Mute)** - will toggle Play/Pause if using Bluetooth or USB inputs (or it will toggle Unmute/Mute if using AM, FM, SirusXM or Auxiliary inputs)

**Source** - displays the currently selected audio source. The operator can change between the AM radio, FM radio, Auxiliary input, SirusXM satellite radio, USB device, Weather Band, Bluetooth audio and turning the stereo off in this area.



#### MAIN TAB (CONTINUED)

If the stereo is turned off, the screenshot depicted below in Fig. V will appear.

The operator can turn the stereo on through LINC 3.0 by selecting the source function throughout the Helm Command knob or by tapping the "press to turn stereo on" text via touchscreen.

The stereo can also be turned on and off from the stereo head unit, which is located inside the glove box in passenger's side of the boat, just above the observer's seat.



FIG. W - SCREENSHOT OF LINC 3.0 IF STEREO IS TURNED OFF



#### DYNAMIC SOURCE TAB

The Dynamic Source tab is the second tab from the left on the Media menu. The title of this tab changes dynamically according to the currently selected source. This tab will display different functions according to the audio source. The different possible sources are listed below:

**Stereo Off** - stereo is turned off and there is no access to the dynamic source menu

**AM radio** - stereo plays AM radio frequencies. On the "AM MENU" tab, the "PTY" search function appears. ("PTY" search finds stations broadcasting a particular program type, e.g. NEWS, SPORT, etc.)

**FM radio** - stereo plays FM radio frequencies. On the "FM MENU" tab, the "PTY" search function appears.

**Auxiliary input** - stereo plays from the 3.5mm Auxiliary input. The "AUX MENU" tab contains no additional functionality

**SiriusXM satellite radio** - stereo plays SiriusXM channels. The "SIRIUSXM MENU" tab contains additional functionality to change the categories

**USB device** - stereo plays from a device connected to the USB port in the passenger's side glove box. The "USB MENU" tab contains additional functionality to control playlists from USB devices.

Weather Band - stereo plays Weather Band frequencies. These frequencies are dedicated to airing continuous weather reports, including emergency weather information. There is no additional functionality in the "WEATHER MENU" tab.

**Bluetooth Audio** - stereo plays audio from a bluetooth connected phone or device. The "BLUETOOTH MENU" tab contains additional pairing and connecting functionality. "Pair" searches for nearby Bluetooth devices to pair with. Please ensure that the Bluetooth device you are trying to connect with is in "discoverable mode" before pressing pair. The "connect/disconnect" icon and text at the bottom of the page connects or disconnects the currently paired Bluetooth device. Once connected, music from the Bluetooth device can be played through LINC.

Please see the screenshots on the following pages for examples of different dynamic source tabs.





FIG. X - FM MENU TAB ON THE MEDIA MENU



FIG. Y - USB MENU TAB ON THE MEDIA MENU



FIG. Z - BLUETOOTH MENU TAB ON THE MEDIA MENU



| 12:00<br>PM             | `⊡ * .  | Ĵ≣     | ♥. | 2     | 500<br>RPM | <b>11.2</b> | 20<br>20 | 8    | S N |
|-------------------------|---------|--------|----|-------|------------|-------------|----------|------|-----|
|                         |         |        |    |       |            |             |          |      |     |
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FIG. AA - VIDEO TAB\* ON THE MEDIA MENU

#### VIDEO TAB\*

**\*NOTE:** The Video tab is only available to boats that are **not** equipped with Zone Control. If you have a boat with Zone Control, you will see a Zone Control tab instead and will be able to access video functions through the Audio Setup tab.

The Video tab enables the operator to watch video through the RCA input. This video appears on a Full Screen sized page.

An operator can exit from the full screen video page one of three ways:



1. By pushing down on the tab button on Helm Command. This will take the user to the next tab (Audio Setup in Fig. AA above)



2. By tapping on the screen on the tab icon. This will take the user to the next tab (Audio Setup in Fig. AA above)



3. By pressing on the back arrow icon. This will take the user to the previous tab (Bluetooth Menu in Fig. AA above)





#### ZONE CONTROL TAB\*

**\*NOTE:** The Zone Control tab is only available to boats that are equipped with Zone Control. If you have a boat that is **not** equipped with Zone Control, you will see a Video tab instead.

The Zone Control tab allows the operator to individually adjust the volume level for each of the five zones of the boat listed below:

**Bow** - controls the volume level of the two bow speakers. These speakers are located in recessed pocket panels.

**Cockpit** - controls the volume level of the four speakers in the main cockpit area. These speakers are located in recessed pocket panels.

**Dash** - controls the volume level of the two dash speakers, located just behind the windshield and in front the dash (driver's side) and in front of the glove box (passenger's side)

Tower- controls the volume level of the tower speakers

Sub - controls the volume level of the subwoofer(s)





FIG. CC - AUDIO SETUP TAB\* ON THE MEDIA MENU

#### AUDIO SETUP TAB\*

**\*NOTE** - Fig. CC shows the Audio Setup tab if Zone Control is not equipped. If Zone Control is equipped, then "Fade" and "Balance" settings will be removed and, conversely, a "Mid" setting and "video" function would appear instead.

The Audio Setup Tab enables operators to fine tune the audio system to their preferences. The operator can adjust the overall bass, treble, fade\*, balance\*, Equalizer presets (EQ), Auto Volume (Auto Vol), and Loudness (LOUD) settings from this tab.

Bass - modifies sounds from the audio system that are low in pitch

Treble - modifies sounds from the audio system that are high in pitch

**Fade** - adjusts the sound front-to-back. Increasing the fade will increase the volume in the front of the boat and decrease the volume in the back of the boat and vice versa

**Balance** - adjusts the sound port-to-starboard (left-to-right). Increasing the fade will increase the volume on the port side of the boat and decrease the volume on the starboard side of the boat and vice versa



#### AUDIO SETUP TAB (CONTINUED)

EQ - changes the equalizer presets contained by the stereo head unit.

Auto Volume - a feature that gradually increases the overall volume of the audio system as the operator increases the speed of the boat and it also gradually decreases the overall volume of the audio system as the operator decreases the speed of the boat.

"Auto Vol Min" will set the lowest possible volume when the boat is below 5 mph (8 kph) and "Auto Vol Max" will set the highest possible volume when the boat reaches it's set speed.

These Auto Volume Min/Max values will automatically adapt to volume changes that the operator makes while driving. For example, if the operator is at 0 mph and he/she lowers the volume to "5", the "Auto Vol Min" will then become "5". If the operator is driving at the set speed (11.2 mph in Fig. CC above) and he/she increases the volume to "25", the "Auto Vol Max" will then become "25"

**Loud** - Turns the Loudness" setting off and on. The Loudness setting, when turned on, will boost certain high and low frequencies in the audio system



## BALLAST MENU



#### MANUAL TAB

The Super Air Nautique G21, G23, and G25 boats contain integrated ballast tanks that use pumps to fill or drain the tanks with water for the purposes of enhancing the wake size/shape for wakeboarding.

The Manual tab will allow the operator to manually turn the ballast pumps on/off to fill or drain the ballast tanks.

If an operator presses "Fill" on a particular tank, the pump will stay on and continue to fill that tank until it is 100% full. The operator may, at any time, press "stop pump(s)" to turn the pump(s) off.

If an operator presses "Drain" on a particular tank, the pump will stay on and continue to drain that tank until it is completely empty, at 0%. Once again, the operator may, at any time, press "stop pump(s)" to turn the pump(s) off.

The "Quick Toggle" feature allows the operator the fill or drain all ballast tanks simultaneously.



## **BALLAST MENU**



#### FIG. EE - SET LEVEL TAB ON THE BALLAST MENU

#### SET LEVEL TAB

The Set Level tab enables the operator to set desired ballast tank levels in 10% increments.

To set a ballast tank level, select a ballast tank and increase or decrease the level as desired. The set level is indicated by a triangle icon; this triangle icon will move along the tank's segmented bar gauge graphic.

When all tank levels are properly set, press "Go to Set Levels" and the pumps will automatically fill or drain each tank to their set levels.

Once again, the operator may, at any time, press "stop pump(s)" to turn the pump(s) off.

Please note that each of the default, factory user profiles come with predetermined ballast tank set levels.



## BALLAST MENU



FIG. FF - OVERHEAD TAB ON THE BALLAST MENU

#### OVERHEAD TAB

The Overhead tab on the Ballast Menu gives a 3D view of the boat which shows tank levels in weight (lb or kg) and visually illustrates which tanks are currently filling or draining. In the screenshot above (Fig. FF), the starboard tank (STBD) is currently draining.

The Overhead tab also features a "Ballast Shift" function. "Ballast Shift" allows the operator to shift weight Port-to-Starboard, or vice versa, in 50 lb (23 kg) increments. This is useful when the boat is slightly unbalanced and needs to have weight adjusted in small increments.

To use "Ballast Shift", just select "Ballast Shift" and set the amount of weight to be shifted to the Port or Starboard sides. When the proper amount of weight is set, press "Start Ballast Shift"; this isn't pictured above, but it would appear in the same area as "stop pumps" in Fig. FF.





## SWITCHING MENU



#### LIGHTS TAB\*

**\*NOTE** - some of the lights shown in Fig. GG above are optional and are not equipped on every boat.

The Switching Menu displays digital switches for lights, the heater fan and the seat heater pads in the driver's seat.

The Lights tab shows on/off switches for some of the boat's lighting. Please note that the Nav/Anchor light switch is located on the keypad below the LINC display.



## SWITCHING MENU



#### CLIMATE TAB\*

**\*NOTE** - the heater switches shown in Fig. HH above are optional and are not equipped on every boat. This tab only exists if those heater switch options are equipped.

From the Climate tab, the operator may turn on/off the heater fan and driver seat heater.

The current on/off state of the passenger seat heater is shown here, but it cannot be controlled by LINC; that switch is located on top of the deck just aft of the passenger's seat (aka observer's seat, love seat).

The Climate tab also displays the current air and water temperatures in the top portion of the page.



## SWITCHING MENU



#### FEATURES TAB

The Features tab displays the locations of key features of the boat on a 3D model. This includes the following features:

12 Volt Outlets

**USB** Inputs

3.5 mm Auxiliary Input

T-Handle drain

Batteries

#### Bilge Pump

The operator cannot control any of the above features through LINC, this tab is meant to just simply display the location of those features for reference.







#### USER LIST TAB

The User Menu displays user profiles which contain pre-set speed, ballast, NCRS and NSS settings.

LINC 3.0 comes with 8 pre-loaded user profiles and the ability to create additional user profiles. The operator may delete all of the pre-loaded user profiles except for "Back to Dock". The operator may have a total of 16 different, unique user profiles

The User List tab provides a list of all pre-loaded and created user profiles. As the operator scrolls through different user profiles, the different setting for each highlighted user profile will appear at the top portion of the page (see Fig. GG).

When a user profile is in the selected state, four options will appear (see Fig. HH in the following page):

**Back arrow** - pressing this will return the operator to the user list to scroll through user profiles again

**Activate** - activates the user profile settings and sends the operator to the Home Menu



#### USER LIST TAB (CONTINUED)

**Edit** - sends the operator to the "Edit User" screen to allow the operator to change each individual setting on the user profile.

**Delete** - deletes the user profile. If pressed, a warning message will appear asking the operator if he/she really wants to permanently delete the user profile



FIG. KK - USER LIST TAB ON THE USER MENU (WITH A USER PROFILE IN THE SELECTED STATE)





FIG. LL - NEW USER TAB (KEYBOARD FOR NEW USER PROFILE NAME)

#### NEW USER TAB

Pressing the New User tab will send the operator to a full screen keyboard to enter in the name for the new user profile.

This keyboard can be used via touchscreen or via the Helm Command Knob. The orange box highlights which key you are on with the knob and pushing down on the knob it enters that character onto the user name text box.

When finished with the user name, press the "enter" key to move to the next step.





FIG. MM - NEW USER TAB (EDIT USER SCREEN TO ADJUST SETTINGS)

#### NEW USER TAB (CONTINUED)

After the name is entered for the new user, the "Edit User" screen will appear. This screen allows the operator to change each individual setting for the user profile, including ballast tank levels, set speed, NCRS settings, and NSS settings (if applicable). The NSS setting and Surf Side are only available when the set speed is below 13.0 mph (20.9 kph).

When finished, either press "cancel" to cancel out of the new user process or press "save changes" to save the newly created user profile and return to the User List tab.





FIG. NN - MINI MAP ON THE MAP MENU

#### MINI MAP TAB

The Map Menu displays an overhead map of the boat, represented by a green boat icon, and shows surrounding bodies of water. Latitude and Longitude coordinates are displayed at the bottom of the pages in the gray transparent box. Also, a scale bar is shown in the lower left corner of the page to reference scale of land masses and bodies of water.

The Mini Map tab contains four mapping functions:

**Enable Joystick** - if selected, enables the operator to move around the map by moving the Helm Command knob like a joystick. The operator can joystick in four directions: up, down, left, and right

**Course Up/North Up** - toggles orientation of the map. Course Up will rotate the map according to where the front of the boat is pointed to. North Up will always orient the map to where North is at the top of the screen.

Zoom In (plus sign) - Zooms in on the map

Zoom Out (minus sign) - Zooms out on the map





FIG. OO - FULL MAP ON THE MAP MENU

#### FULL MAP TAB

The Full Map tab shows a larger, fullscreen view of the map.

The Full Map tab includes the same four functions as the Mini Map tab, but also features a slideout window for waypoints and tracks. To view the slideout window, either press the yellow arrow icon on the screen or joystick over to the right with the Helm Command knob

Waypoints allow the operator to mark certain areas of interest with one of the four map waypoint icons (fish, anchor, gas pump, or flag).

Tracks allow the operator to save the track, or path, of the boat.





FIG. PP - FULL MAP WITH SLIDEOUT WINDOW FOR WAYPOINTS AND TRACKS

#### FULL MAP TAB - WAYPOINTS AND TRACKS

When the Slideout window is open, the map size will decrease in width to a Mini Map size. To hide the Slideout window, just press on the yellow arrow on the screen or joystick over to the left with the Helm Command knob.

The slideout window contains five functions:

**Waypoint Manager** - takes the Operator to the waypoint manager, where saved waypoints can be edited and deleted

Save Waypoint - saves a new waypoint where the cursor is currently located

**Track Manager** - takes the Operator to the track manager, where saved waypoints can be edited and deleted

Save Track- saves the current track

Clear Track- clears the current track





FIG. QQ - FULL MAP WITH WAYPOINT MANAGER

#### FULL MAP TAB - WAYPOINT MANAGER AND TRACK MANAGER

Once a waypoint is selected from the list of saved waypoints the operator may do the following from the Waypoint Manager:

**Change Icon/ Edit Name** - changes the icon or edits the name of the waypoint

Show On Map - moves the map to the saved waypoint

Delete Waypoint - deletes the waypoint

Go Back - goes back to the list of waypoints

The Track Manager is very similar and contains the following functions:

Edit Name - allows operator to edit the name of the track

Show/Hide - toggles whether the track is shown or hidden

Delete Track - deletes the track

Go Back - goes back to the list of tracks





FIG. RR - SETTINGS TAB ON PREFERENCES MENU

#### SETTINGS TAB

The Preferences menu contains the interface/interaction settings of the LINC 3.0 unit.

The Settings tab contains the following settings:

**River Mode** - allows the driver to keep the boat's speed-over-water constant at the push of a button when a current is present.

**Auto Volume** - automatically increases/decreases the volume as speed increases/decreases

**Speed Buzzer** - the LINC unit audibly buzzes when the set speed is achieved

**Depth Buzzer** - the LINC unit audibly buzzes when the boat is in shallow waters, and buzzes when the minimum depth is reached

Minimum Depth- sets when the Depth Buzzer goes off





#### DISPLAY TAB

The Display tab contains the following settings:

Display Brightness - adjusts the brightness of the LINC display Units - toggles the units displayed on LINC between English and Metric Time Zone - sets the time zone according to GMT offset standards Daylight Savings Time - toggles daylight savings time on/off

Clock Mode - toggles the clock between 12 hour and 24 hour mode





#### SYSTEM TAB

The System tab contains the following:

**Power Diagnostics** - displays a list of circuit fault codes and descriptions; the operator can reset faults here.

**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 Info** - identifies the LINC display and the current software installed on the display

**Surf Select** - allows certain settings to be changed by someone who is riding/surfing behind the boat with the Surf Select Remote or Pebble Watch with the Surf Select App; this includes surf side, set speed, NSS setting, NCRS setting, and volume

**Pair Remote (for Surf Select)** - allows a surfer to switch surf sides behind the boat with the Surf Select Remote



#### SYSTEM TAB (CONTINUED)

**Pair Pebble (for Surf Select)**- allows a surfer/rider to switch surf sides, change set speed, change NSS setting, change NCRS setting, and to adjust the volume through a Pebble watch with the Surf Select App.

|                                    | 500 RPM       | <b>D.O</b><br>MPH | (J))<br>10 |             |
|------------------------------------|---------------|-------------------|------------|-------------|
| POW                                | ER DIAGNOSTIC | S                 |            |             |
| Courtesy Lights (10A) - no fault   | NC            | RS Tab (20A)      | - no fault |             |
| Comp Lights (10A) - no fault       | В             | lower (7.5A)      | - no fault |             |
| Overhead Lights (5A) - no fault    | Port Ballast  | Pump (25A)        | - no fault | ι   Δ       |
| Nav Lights (5A) - no fault         | Belly Ballast | Pump (25A)        | - no fault | t i         |
| Anchor Lights (5A) - no fault      | Stbd Ballast  | Pump (25A)        | - no fault |             |
| Underwater Lights (10A) - no fault | Port Ba       | llast Sender      | - 0.713 V  |             |
| Docking Lights (10A) - no fault    | Belly Ba      | llast Sender      | - 0.820 V  |             |
| Driver Seat Heat (15A) - no fault  | Stbd Ba       | llast Sender      | - 0.825 V  |             |
| Pass Seat Heat (15A) - no fault    |               |                   |            |             |
| Boat Heater (15A) - no fault       |               |                   |            |             |
| Port NSS (20A) - no fault          | RES           | SET FAUL          | Т          |             |
| Stbd NSS (20A) - short             |               |                   |            |             |
|                                    |               |                   |            |             |
| SETTINGS DISPLAY                   | SYSTEM        | <b>9 8.4</b><br>г | ģ          | <b>45 %</b> |

FIG. UU - POWER DIAGNOSTICS ON PREFERENCES MENU

Power Diagnostics shows all of the electrical circuits and shows which circuits have a fault.

This page also shows voltage from the Ballast senders



| 3                | 2:00<br>PM     | ₿    | \$<br> |            | 13    | <b>500</b><br>RPM | <b>D.D</b> | (J)))<br>10 | 8   | S N                  |
|------------------|----------------|------|--------|------------|-------|-------------------|------------|-------------|-----|----------------------|
|                  | ⑦ 14.4 eng hrs |      |        |            | Cour  | it                | Status OK  |             |     |                      |
| ENGINE           | Source         |      | Plug   |            | SPN   |                   |            | FMI         |     | $  \Delta  $         |
| DIAG             | Description    |      |        | Correction |       |                   |            |             |     |                      |
|                  | Source         | Plug | SPN    | FMI        | Count | Descriptio        | n          |             |     | $\nabla$             |
|                  |                |      |        | -          |       |                   |            |             |     | Ľ                    |
| FAULT<br>LOG     |                |      |        |            |       |                   |            |             |     |                      |
|                  |                |      |        |            |       |                   |            |             |     | GET STORED<br>FAULTS |
| SETTINGS DISPLAY |                |      | SI     | STEM       |       | <u></u>           | ā          | 45          | % 🏠 |                      |

FIG. VV - ENGINE DIAGNOSTICS ON PREFERENCES MENU

#### SYSTEM TAB (CONTINUED)

Engine Diagnostics displays a list of engine fault codes and descriptions; on some engines, corrective action will be shown. This screen shows the current engine hours. There is also a vertical "Fault Log" tab that will show prior stored faults.



| 🏂 <sup>12:00</sup> 📮 🕴 💻                             | ► ► 500<br>RPM     |                    |  |  |  |  |  |  |
|--|--------------------|--------------------|--|--|--|--|--|--|
| SYSTEM INFO  |                    |                    |  |  |  |  |  |  |
| LINC Version: 20150803.2.8.10245 / G5T MY2016        |                    |                    |  |  |  |  |  |  |
| COMPONENT  | VERSION            | PART NO.           |  |  |  |  |  |  |
| Application  | 2.8.10319          | 78333157           |  |  |  |  |  |  |
| OS   | 0.0.0              | 0                  |  |  |  |  |  |  |
| Bootloader   | 0.0.0              | 0                  |  |  |  |  |  |  |
| PDM SW Version                                       | Address 30: REV 39 | Address 32: REV 39 |  |  |  |  |  |  |
| Buttonpad SW Version                                 | <b>REV 25</b>      |                    |  |  |  |  |  |  |
| FACTORY RESET<br>SETTINGS<br>REBOOT TO<br>BOOTLOADER |                    |                    |  |  |  |  |  |  |
| SETTINGS DISPLAY                                     | SYSTEM             | 5 8.4 6 45 % 6     |  |  |  |  |  |  |

FIG. WW - SYSTEM INFO ON PREFERENCES MENU

#### SYSTEM TAB (CONTINUED)

System Info identifies the LINC display and the current software installed on the display.



## LINC 3.0

## WARNING AND POP-UP MESSAGES



FIG. XX - ENGINE DIAGNOSTICS ON PREFERENCES MENU

#### ENGINE DIAGNOSTIC MESSAGE - WARNING

# It is strongly advised that you contact your Nautique dealer immediately when a diagnostic message appears.

If an engine diagnostic message appears, it will give you the DTC number (Diagnostic Trouble Code) and message, the SPN (Suspect Parameter Number) and FMI (Failure Mode Indicator) number. These numbers follow standards set by the engine manufacturer or SAE J1939.

Pressing Previous or Next will cycle through the diagnostic messages and pressing Ignore will close the diagnostic message window. If ignore is pressed, a smaller message will appear in upper left hand corner of the screen until the problem is corrected (see image below).





## WARNING AND POP-UP MESSAGES



FIG. YY - ENGINE DIAGNOSTICS ON PREFERENCES MENU

#### **CIRCUIT FAULT MESSAGE - WARNING**

# It is strongly advised that you contact your Nautique dealer immediately when a diagnostic message appears.

If a circuit fault appears, a brief description will appear.

Pressing Details will provide more information on the circuit fault and pressing Ignore will close the diagnostic message window. If ignore is pressed, a smaller message will appear in upper left hand corner of the screen until the problem is corrected (see image below).







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