



I-PILOT LINK CONTROLLER SOFTWARE UPDATES

Link Controller

1. Loading the software file onto the SD card. Note that no other software loads (FF or remote) can be on the card.
2. Prep the Humminbird and motor
 - a. Apply power to the motor
 - b. Ensure the Humminbird and the motor are communicating (“connected”)
3. Installing the SD card in the Humminbird and what the user should expect for messages (Confirmation, completion)
 - a. During the download, the message “i-Pilot Disconnected” may appear, this is normal.
4. Remove the SD card from the Humminbird.
5. After the software download is complete, you will need to cycle power to the trolling motor to regain proper motor control.

Remote

1. Loading the software file onto the SD card. Note that no other software loads (FF or remote) can be on the card.
2. Prep the Humminbird and motor
 - a. Apply power to the motor
 - b. Ensure the Humminbird and the motor are communicating (“connected”)
3. Installing the SD card in the Humminbird and what the user should expect for messages (Confirmation, completion)
4. Remove the SD card from the Humminbird.
5. The new software for the remote is now loaded on the Link Controller. You must now go the remote and initiate the download of the remote software to the remote itself.
6. Turn on the remote and ensure the battery is well charged. If the battery charge is not sufficient, you will be prompted during the process to plug in the charger.
7. From the remote Home screen, select: Settings Softkey>Update Software > OK
8. From this screen, select the Update option
9. A message saying “Software Updating” will appear along with progress bar. After that another message saying “Programming Flash” will appear along with a progress bar.
10. After the second progress bar finishes, the remote will automatically restart.



I-PILOT SETUP

This system wide setting may be selected either from the Humminbird or from the remote.



From the Humminbird:



ENABLE I-PILOT LINK NAVIGATION

To start i-Pilot Link navigation from the control head, i-Pilot Link Navigation must be turned on. When i-Pilot Link Navigation is turned on, starting navigation on the control head will start i-Pilot Link navigation. The related i-Pilot Link menus will also be added to the menu system. If i-Pilot Link navigation is turned off, your control head will operate with its traditional Humminbird navigation features with a GPS Receiver attached.

***NOTE:** When i-Pilot Link Navigation is turned on, navigation from other connected autopilots will be cancelled.*

- 1. Main Menu:** Press the MENU key twice.
- 2.** Select the Accessories tab > i-Pilot Link > i-Pilot Link Navigation > On or Off.
(Default = On)

iPilot	
iPilot Navigation	On
Auto upload Data	On
Arrival Mode	Off
Heading Line	On
iPilot Pre-Arrival	15m
iPilot OffCourse	15m



UPLOAD DATA FROM THE I-PILOT LINK

When Auto Upload Data is turned on, the control head copies the i-Pilot Link's saved **iTracks** and **Spot-Locks**. In this case, the control head and i-Pilot Link are synchronized, so if you delete a **Spot-Lock** or **iTrack** on the control head, it will be deleted on the i-Pilot Link. When Auto Upload Data is off, deleting an item on the control head will not affect the data stored on the i-Pilot Link and vice versa.

- 1. Main Menu:** Press the MENU key twice.
- 2.** Select the Accessories tab > i-Pilot Link > Auto Upload Data > On or Off. (Default = On)

***NOTE:** The maximum number of iTracks, Spot-Locks, Waypoints, routes, and tracks may vary due to the setup of your Waypoint Management directory. Groups and sub-groups also use storage, and the storage limit is influenced by the complexity of your Waypoint Management directory.*



SET THE ARRIVAL MODE

When you are navigating with the i-Pilot Link and reach the destination, set this menu to tell the system will do next. The setting will determine if you will control the boat manually or transition to another type of i-Pilot Link navigation after the destination point is reached in a waypoint, route, or **iTrack**.

***NOTE:** The Arrival Mode menu setting does not apply Spot-Lock or Follow the Contour.*

Off/Manual returns the unit to manual mode after navigation is finished. You must be prepared to take manual control of the boat.

Spot-Lock creates a **Spot-Lock** and then starts **Spot-Lock** navigation after navigation is finished.

AutoPilot continues navigation towards the set **AutoPilot** heading.

- 1. Main Menu:** Press the MENU key twice.
- 2.** Select the Accessories tab > i-Pilot Link > Arrival Mode.
- 3.** Press the RIGHT or LEFT Cursor keys to select **Off/Manual**, **Spot-Lock**, or **AutoPilot** (Default = **Off**).

From the remote:

- 1.** From the Home screen, select the Controls Softkey>Arrival Mode>OK
- 2.** Use the up/down arrow keys to select a new value and press the OK key to accept. Select the Back or Close Softkey to save the setting and exit.

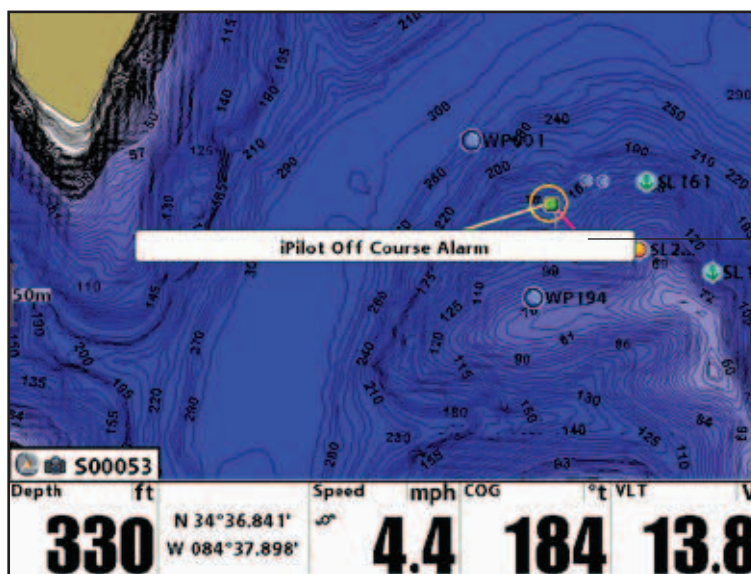


SET THE I-PILOT LINK OFF COURSE ALARM

You can set how far the boat can move off course during i-Pilot Link navigation before an alarm is triggered. If the boat moves off course, an alert will display on the screen.

1. Main Menu: Press the MENU key twice.
2. Select the Accessories tab > i-Pilot Link > i-Pilot Link Off Course.
3. Press the RIGHT or LEFT Cursor keys to adjust the setting.
(Off to 300 ft, Off to 100 m; Default = Off)

i-Pilot Link Off Course Alarm Displayed



The i-Pilot Link Off Course alert displays on the screen.



SET THE PRE-ARRIVAL ALARM

You can set the alarm to provide an alert when the boat is within the set distance to the destination point in a waypoint, route, or iTrack navigation.

Caution! When the alert sounds, be prepared that the i-Pilot Link will soon transition to the type of navigation set in the Arrival Mode menu option. In which case, you may need to be prepared to take manual control of the boat.

- 1.** Main Menu: Press the MENU key twice.
- 2.** Select the Accessories tab > i-Pilot Link > Pre-Arrival.
- 3.** Press the RIGHT or LEFT Cursor keys to adjust the setting.
(Off to 300 ft, Off to 100 m; Default = Off)

NOTE: When i-Pilot Link Navigation is turned on, the Arrival Alarm in the Alarms tab is replaced by the Pre-Arrival alarm, and the Off Course Alarm is replaced by the i-Pilot Link Off Course Alarm.



MANUAL CONTROL FUNCTIONALITY

This section describes all **Manual Control** functions of i-Pilot Link. A manual function is one in which the operator takes full control of the function such as manually steering the motor in a desired direction or manually adjusting the prop speed to the desired setting. Any of these functions do not require a GPS signal.



How Do I . . . Turn the Motor On/Off?

Prop On/Off

To turn the motor on or off press .

Refer to the Knowing your Remote section for details on the prop icon.

How Do I . . . Control Motor Speed?

Motor Speed Control

Increase Motor Speed

To increase the motor speed push  on the remote. Each push of  will increment the motor speed by ½ to a maximum of 10.

Decrease Motor Speed

To decrease the motor speed push  on the remote. Each push of  will decrement the motor speed by ½ to a minimum of 0.

Preset Speeds

Pressing  or  will bring up the Speed Control screen. When this screen is active, the two Softkeys become presets for motor speed.

To recall a preset speed, bring up the Speed Control screen then press the Softkey for that speed.

To record a new preset speed, bring up the Speed Control screen, adjust the motor speed to the desired value then press and hold either Softkey until the label above the Softkey changes. The example to the right shows preset values of 6.5 and 10



How Do I . . . Steer the Motor?

Motor Steering Control

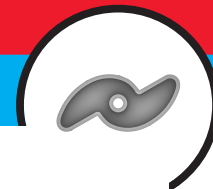
Steer Left

To steer the motor to the left press .

Steer right

To steer the motor to the right press .

If a steering key is held down for more than six to eight seconds, the steering will stop to prevent the coil cord from wrapping on the motor.



START OR STOP THE PROPELLER FROM THE CONTROL HEAD

1. Press the  POWER/LIGHT key.
2. Select Prop > On or Off. To start the propeller spinning, select On. To stop the propeller, select Off. (Default = Off)



CONTROLLER THE PROPELLER SPEED FROM THE CONTROL HEAD





UNDERSTANDING HOW THE I-PILOT LINK NAVIGATION WORKS

i-Pilot Link uses GPS satellite signals as well as digital compass data to know where it is, where it is heading and the direction the motor is pointing. Since i-Pilot Link depends on GPS satellite signals for navigation, a minimum GPS signal level of one bar is required in order for GPS navigation controls to be enabled. Best results are achieved when a GPS signal level of four bars can be obtained.

In simple terms, i-Pilot Link remembers and creates points to navigate your boat automatically. i-Pilot Link also uses a method of GPS navigation called arrival circles. These imaginary circles allow i-Pilot Link to understand when it has drifted away from a point and when it has arrived at a point. The size of the arrival circles vary depending on GPS signal strength, thus the greater the signal strength the smaller the arrival circles.

OVERVIEW - USING I-PILOT LINK FROM THE CONTROL HEAD

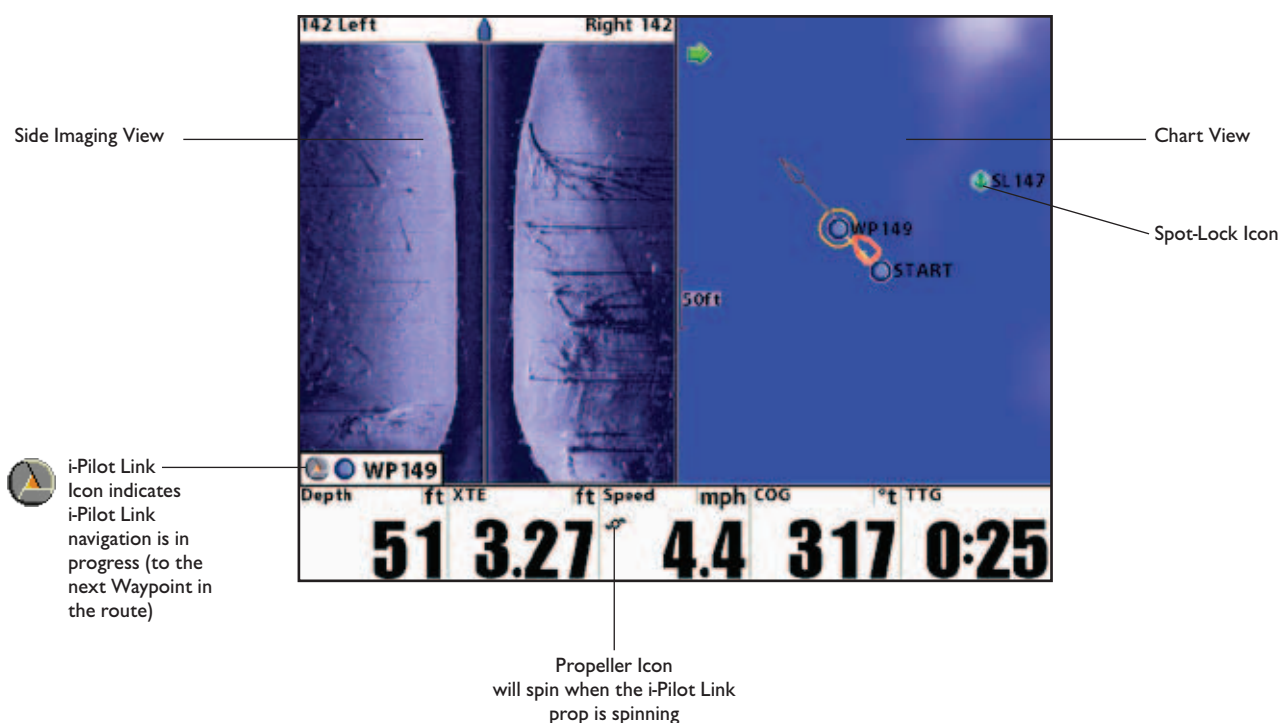
The i-Pilot Link allows you to start navigation commands from the Humminbird control head and start navigation with the i-Pilot Link. The commands from the remote will also be displayed on the control head.

The i-Pilot Link features are displayed in Chart View and Bird's Eye View. The control head uses the data from the GPS Receiver attached directly to it or within the Ethernet network.

Some of the i-Pilot Link navigation functions may override traditional Humminbird navigation menu options. The alarms have also been adapted to the i-Pilot Link.

You will need the actions in this section throughout the manual.

Using Side Imaging/Chart View with the i-Pilot Link





CANCEL I-PILOT LINK NAVIGATION

When i-Pilot Link navigation is in progress, whether with an iTrack, Spot-Lock, route, etc. you can cancel navigation at any time using the following instructions. When you cancel i-Pilot Link navigation, be prepared to take manual control of the boat.

- 1. During i-Pilot Link Navigation, press the MENU key once.**
- 2. Select Cancel i-Pilot Link Navigation, and press the RIGHT Cursor key.**



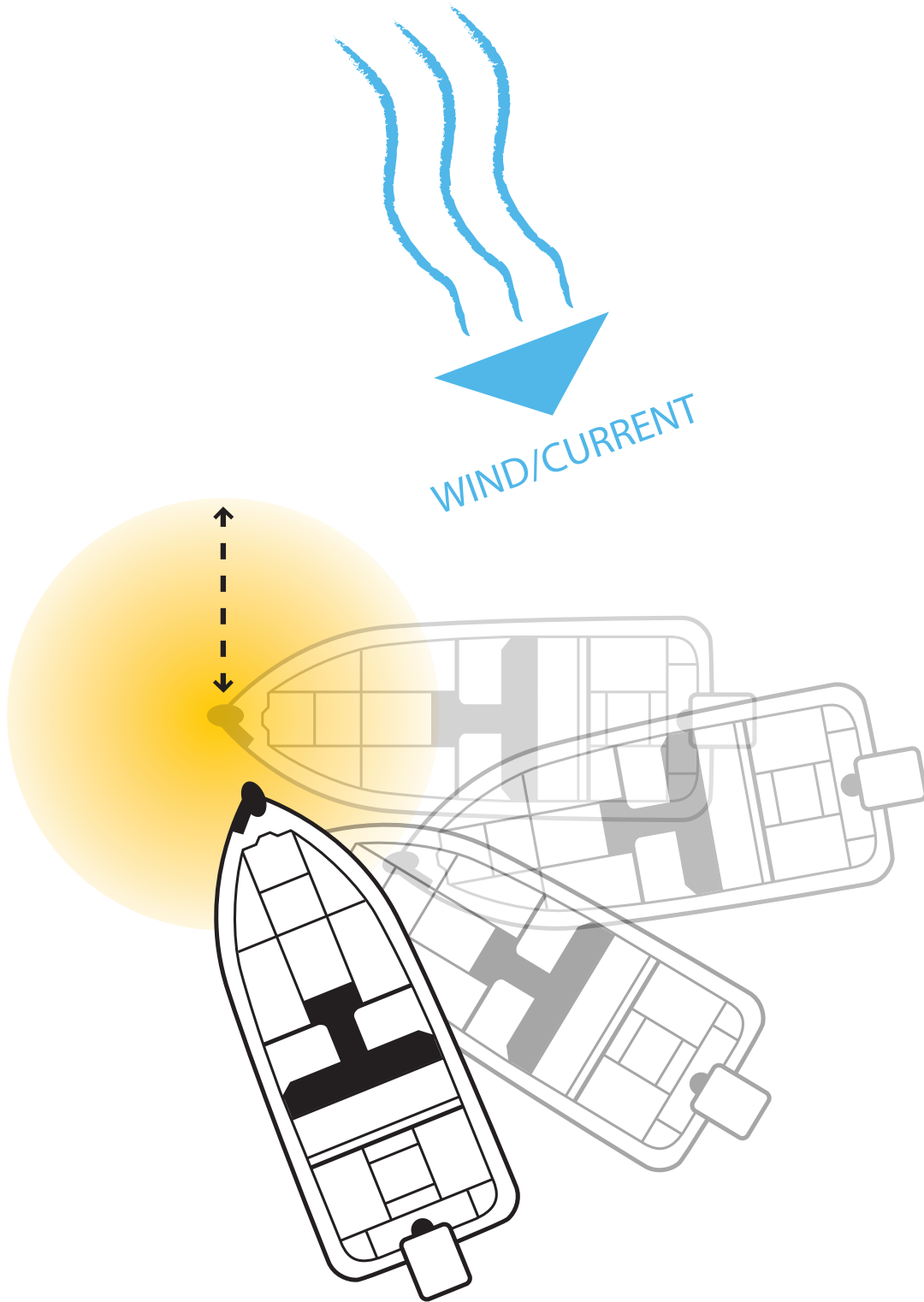
HOW SPOT-LOCK WORKS

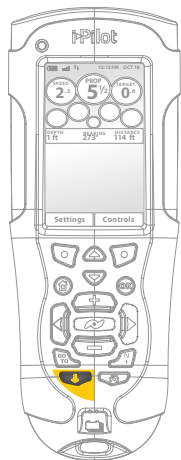
Spot-Lock uses a single point as a reference for the spot you want to stay on. Around the **Spot-Lock** location i-Pilot Link uses an arrival circle to determine prop speed and direction. If i-Pilot Link sees it is within the circle, it will adjust the motor speed to zero. If i-Pilot Link sees it is outside of the circle, it will control motor speed in an attempt to get the boat back into the circle.

You can save a combination of up to 2,500 **Spot-Locks** and **Waypoints** on your Humminbird or up to 16 on the Link Controller when operating without the Humminbird. **Spot-Locks** are saved with an alphanumeric name that can be edited on the Humminbird through the Navigation X-Press Menu or from the **Waypoint** Management dialog box.

Note: Link differentiates between a Spot-Lock and a Waypoint only by its icon. A Spot-Lock will have this icon: . Any Waypoint can be converted to a Spot-Lock simply by changing its icon to the Spot-Lock icon which can be accomplished through Waypoint Management.

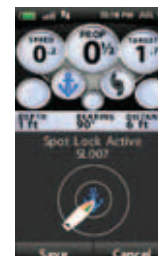
Spot-Lock can be operationally controlled with the i-Pilot Link remote or the Humminbird fishfinder.





▶ ENGAGE SPOT-LOCK

1. Press on the remote.
2. This newly created **Spot-Lock** location is temporary. To save the location for later use, press the Save Softkey on the **Spot-Lock** Active Screen.



▶ DISENGAGE SPOT-LOCK

1. Press the Cancel Softkey on the **Spot-Lock** Active Screen OR any of the following keys: or .

NOTE: If you start another mode of iPilot navigation, Spot-Lock will disengage automatically.

▶ NAVIGATE TO A SAVED SPOT-LOCK

1. Manually navigate the boat to within a quarter mile of the saved **Spot-Lock** location.
2. Press the GOTO key.
3. Select the **Spot-Lock** from the list and press the OK key.

Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat to the Spot-Lock location.

▶ SPOT-LOCK PAUSE

i-Pilot Link allows the user to temporarily engage **Spot-Lock** while navigating **iTracks** and LakeMaster Contour Lines.

1. To engage, press on the remote.
2. To cancel **Spot-Lock** Pause and resume the previous navigation mode, select: Home screen>Controls Softkey>Resume>OK



ENGAGE SPOT-LOCK AT THE BOAT POSITION

You can quickly **Spot-Lock** at the current boat position. This type of **Spot-Lock** is temporary, and unless you save it, the Spot-Lock will be deleted when you start a new mode of navigation.

- 1. Navigation X-Press Menu:** Press the MENU key.
- 2.** Select **Spot-Lock** at Vessel, and press the RIGHT Cursor key. **Spot-Lock** will start immediately.
- 3. Save (optional):** Press the MENU key. Select Save **Spot-Lock**, and press the RIGHT Cursor key.

NOTE: The Save Spot-Lock menu option is available on the Navigation X-Press Menu when Spot-Lock is active.



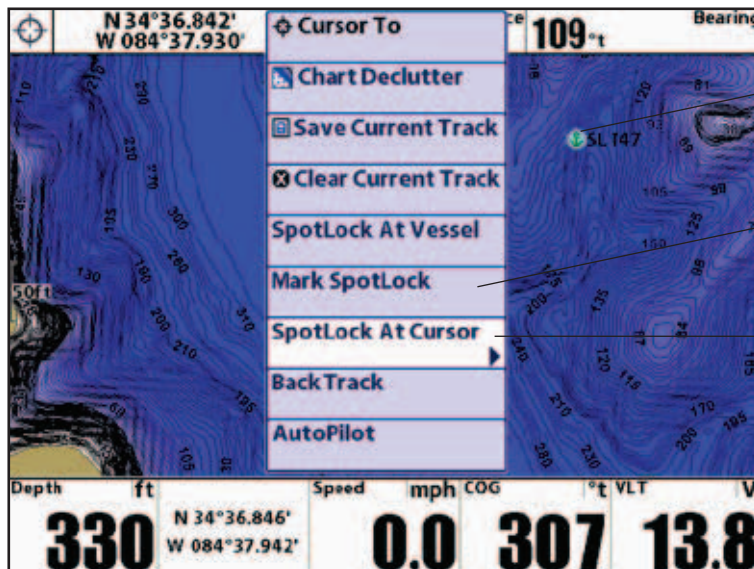
MARK A SPOT-LOCK AT THE CURSOR POSITION

You can use the cursor to mark a **Spot-Lock** location. The **Spot-Lock** will be saved automatically to the Humminbird. This menu option marks the **Spot-Lock**, but it does not start navigation to the **Spot-Lock**. To start navigation, see Mark a **Spot-Lock** and Start Navigation.

- 1.** Use the 4-WAY Cursor Control key to move the cursor to a position on the chart.
- 2. Navigation X-Press Menu:** Press the MENU key.
- 3.** Select Mark **Spot-Lock**, and press the RIGHT Cursor key.
- 4.** Press the EXIT key until the Navigation X-Press Menu is closed.



Marking a Spot-Lock at the Cursor Position



Spot-Lock Icon

To mark the Spot-Lock at the boat position, select Mark Spot-Lock.

To mark the Spot-Lock at the cursor position, select Spot-Lock at Cursor.



Move the
Cursor



Open the Navigation
X-Press Menu



Select a Menu
Option



MARK A SPOT-LOCK AND START NAVIGATION

You can mark a **Spot-Lock** at the Cursor location and start navigation towards it automatically. When the boat reaches the point, it will **Spot-Lock** until you disengage it. This type of **Spot-Lock** is temporary, and unless you save it, the **Spot-Lock** will be deleted when you start a new mode of navigation.

1. Use the 4-WAY Cursor Control key to move the cursor to a position on the chart.
2. **Navigation X-Press Menu:** Press the MENU key.
3. Select **Spot-Lock** at Cursor, and press the RIGHT Cursor key. Navigation will start automatically.
4. Save (optional): Press the MENU key. Select Save **Spot-Lock**, and press the RIGHT Cursor key.



When you save a **Spot-Lock**, it is saved with an alphanumeric name that starts with SL. The name can be edited from the **Spot-Lock** submenu or the **Waypoint** Management Dialog Box. If you change the **Spot-Lock** icon, it will change to a **Waypoint**.



ENGAGE SPOT-LOCK AT A WAYPOINT POSITION

1. Use the 4-WAY Cursor Control key to move the cursor to a waypoint on the chart.
2. **Navigation X-Press Menu:** Press the MENU key.
3. Select the **Waypoint** name > **Spot-Lock**. If the waypoint is within a ¼ mile, i-Pilot Link navigation will start towards the **Waypoint**. When the boat arrives at the **Waypoint**, **Spot-Lock** will start automatically.



NAVIGATE TO A SAVED SPOT-LOCK

If a saved **Spot-Lock** is within ¼ mile of the boat position, you can start navigation towards it. **Spot-Lock** will start automatically when the boat reaches the destination **Spot-Lock**.

1. Use the 4-WAY Cursor Control key to select a **Spot-Lock** icon on the chart.
 2. Press the **GOTO** key.
- OR
1. Without the active cursor, press the **GOTO** key.
 2. Select a **Spot-Lock** (SL000) from the saved points list.
 3. Press the RIGHT Cursor key.



● DISENGAGE SPOT-LOCK

You can disengage **Spot-Lock** navigation using the Cancel i-Pilot Link Navigation command. When you cancel i-Pilot Link navigation, be prepared to take manual control of the boat.

- 1. Navigation X-Press Menu:** Press the MENU key.
- 2.** Select Cancel i-Pilot Link Navigation, and press the RIGHT Cursor key.

NOTE: If you start another mode of i-Pilot Link navigation, the Spot-Lock will disengage automatically.

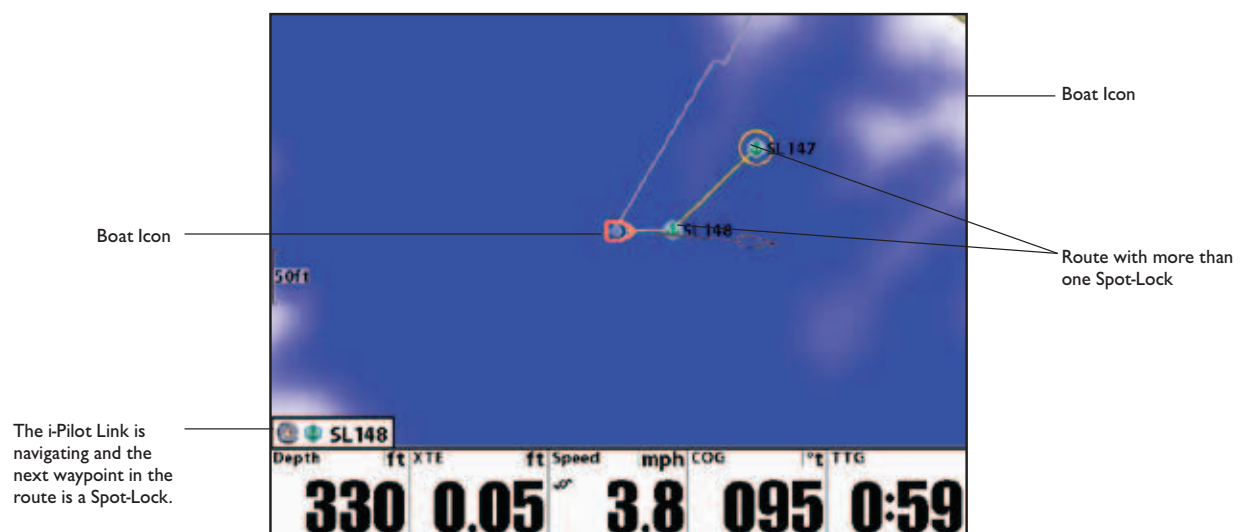


RESUME NAVIGATION ON A ROUTE

If the i-Pilot Link is navigating a route and pauses on a **Spot-Lock**, you can resume navigation on the route using the following instructions.

- 1. Navigation X-Press Menu:** Press the MENU key.
- 2.** Select Resume Navigation, and press the RIGHT Cursor key.

Resuming Navigation on a Route from a Spot-Lock



Move the Cursor



Open the
Navigation X-Press Menu