

# ADVANCED GPS NAVIGATION

## Operations Guide

532305-3EN\_A



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Thank you for choosing Humminbird®, the #1 name in marine electronics. Humminbird has built its reputation by designing and manufacturing top quality, thoroughly reliable marine equipment. Your Humminbird is designed for trouble-free use in even the harshest marine environment. In the unlikely event that your Humminbird does require repairs, we offer an exclusive Service Policy. For complete details, see the separate warranty card included with your unit. We encourage you to read this operations manual carefully in order to get the full benefit from all the features and applications of your Humminbird product.


Contact Humminbird Technical Support through our Help Center at <https://humminbird-help.johnsonoutdoors.com/hc/en-us>.


 **WARNING!** This device should not be used as a navigational aid to prevent collision, grounding, boat damage, or personal injury. When the boat is moving, water depth may change too quickly to allow time for you to react. Always operate the boat at very slow speeds if you suspect shallow water or submerged objects.


 **WARNING!** The electronic chart in your Humminbird unit is an aid to navigation designed to facilitate the use of authorized government charts, not to replace them. Only official government charts and notices to mariners contain all of the current information needed for the safety of navigation, and the captain is responsible for their prudent use.


 **WARNING!** This device is granted for use in Mobile only configurations in which the antennas used for this transmitter must be installed to provide a separation distance of at least 8 inches [20 cm] from all person and not be co-located with any other transmitters except in accordance with FCC and Industry Canada multi-transmitter product procedures.


 **WARNING!** Humminbird is not responsible for the loss of data files [waypoints, routes, tracks, groups, recordings, etc.] that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder's data files periodically. Data files should also be saved to your computer before restoring the fish finder defaults or updating the software. Visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) and download your fish finder operations manual for details.


 **WARNING!** Disassembly and repair of this electronic unit should only be performed by authorized service personnel. Any modification of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty.


 **WARNING!** Do NOT leave the SD card slot cover open. The slot cover should always be closed to prevent water damage to the unit.


 **WARNING!** Do not travel at high speed with the unit cover installed. Remove the unit cover before traveling at speeds above 20 mph.


 **WARNING!** You are responsible for the safe and prudent operation of your vessel. We have designed the Advanced GPS Navigation System to be an accurate and reliable tool that will enhance boat operation and improve your ability to catch fish. This product does not relieve you from the responsibility for safe operation of your boat. You must avoid hazards to navigation and always maintain a permanent watch so you can respond to situations as they develop. You must always be prepared to regain manual control of your boat.

 **WARNING!** Take care that neither you nor other persons approach the turning propeller too closely, neither with body parts nor with objects. The motor is powerful and may endanger or injure you or others. While the motor is running, watch out for persons swimming and for floating objects. Persons whose ability to run the motor or whose reactions are impaired by alcohol, drugs, medication, or other substances are not permitted to use the motor.

 **WARNING!** It is recommended to only use Johnson Outdoors approved accessories with your Minn Kota motor. Using non-approved accessories including to mount or control your motor may cause damage, unexpected motor operation and injury. Be sure to use the product and approved accessories, including remotes, safely and in the manner directed to avoid accidental or unexpected motor operation. Keep all factory installed parts in place including motor and accessory covers, enclosures and guards.


 **WARNING!** Be sure to know how to power the motor on and off, and always be alert for unexpected motor movement, such as a turning propeller. Read this manual and your Minn Kota trolling motor manual for details.

 **WARNING!** Due to safety reasons, the Advanced GPS Navigation System will not engage a position farther than 1/4 mile away.

 **CAUTION!** The Advanced GPS Navigation System uses a magnetic compass to detect direction of travel. The compass can be adversely affected by magnets or large, ferrous metal objects near [within 24" of] the trolling motor control head.


Obstructions on the propeller may cause excessive vibration of the motor head. This vibration can cause the compass to wander and erratic steering to occur. Clear the obstruction to return the motor to normal operation.


**FCC NOTICE:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: [1] this device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesired operation.


 **CAUTION!** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.


**Class B Device (Broadcasting and communication equipment for home):**


 **CAUTION!** This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used at home and it can be used in all areas.

 **NOTE:** Some features discussed in this manual require a separate purchase, and some features are only available on international models. Every effort has been made to clearly identify those features. Please read the manual carefully in order to understand the full capabilities of your model.

 **NOTE:** The illustrations in this manual may not look the same as your product, but your unit will function in a similar way.

 **NOTE:** To purchase accessories or any additional equipment for your Humminbird configuration, visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) or visit [minnkota.johnsonoutdoors.com](http://minnkota.johnsonoutdoors.com).

 **NOTE:** The procedures and features described in this manual are subject to change without notice. This manual was written in English and may have been translated to another language. Humminbird is not responsible for incorrect translations or discrepancies between documents.

 **NOTE:** Product specifications and features are subject to change without notice.



**NOTE:** Humminbird verifies maximum stated depth in saltwater conditions, however actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

**ROHS STATEMENT:** Product designed and intended as a fixed installation or part of a system in a vessel may be considered beyond the scope of Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

**ENVIRONMENTAL COMPLIANCE STATEMENT:** It is the intention of Johnson Outdoors Marine Electronics, Inc. to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

**WEEE DIRECTIVE:** EU Directive 2002/96/EC "Waste of Electrical and Electronic Equipment Directive (WEEE)" impacts most distributors, sellers, and manufacturers of consumer electronics in the European Union. The WEEE Directive requires the producer of consumer electronics to take responsibility for the management of waste from their products to achieve environmentally responsible disposal during the product life cycle.

WEEE compliance may not be required in your location for electrical & electronic equipment (EEE), nor may it be required for EEE designed and intended as fixed or temporary installation in transportation vehicles such as automobiles, aircraft, and boats. In some European Union member states, these vehicles are considered outside of the scope of the Directive, and EEE for those applications can be considered excluded from the WEEE Directive requirement.



This symbol (WEEE wheellie bin) on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE.

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# INTRODUCTION

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## Overview

This revolutionary boat control system enables your Minn Kota trolling motor and your Humminbird fish finder to communicate with each other, delivering unprecedented levels of automatic navigation. Find, store, and revisit your most productive fishing spots and tracks, taking control of it all from either the Minn Kota Wireless Remote, the One-Boat Network App, or directly from your Humminbird fish finder. Add a Humminbird CoastMaster or LakeMaster Map Card or AutoChart ZeroLine Map Card, and unlock the ability to automatically follow depth contours for even higher levels of boat control. All with GPS accuracy so you spend less time positioning your boat and more time catching fish.

Advanced GPS Navigation is pre-installed on the trolling motor. The remote and GPS controller on the trolling motor make up the Advanced GPS Navigation system. The GPS controller is contained in the motor control head. It contains a very sensitive compass and is where all GPS satellite and remote signals are received.

## Safety and Cautions while using Advanced GPS Navigation

In addition to this manual, it is important to thoroughly read your Minn Kota motor operation's manual. Follow all instructions and heed all safety and cautionary notices. Use of this product is only permitted for persons that have read and understood the user instructions.



**WARNING!** You are responsible for the safe and prudent operation of your vessel. We have designed Advanced GPS Navigation to be an accurate and reliable tool that will enhance boat operation and improve your ability to catch fish. This product does not relieve you from the responsibility for safe operation of your boat. You must avoid hazards to navigation and always maintain a permanent watch so you can respond to situations as they develop. You must always be prepared to regain manual control of your boat.

Learn to operate your Advanced GPS Navigation system in an area free from hazards and obstacles.

## Humminbird Fish Finder

This accessory manual describes the functionality that is added to your Humminbird fish finder when it is connected to the Minn Kota trolling motor with Advanced GPS Navigation. For additional information about the Humminbird fish finder operations, see your fish finder operations manual. To download the manual from our Web site, go to [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com).

# INSTALLATION

Use the following instructions to connect your Humminbird fish finder with an Advanced GPS Navigation system. Before proceeding with this installation, the Humminbird fish finder and Minn Kota trolling motor should be installed. To download the installation guides, visit [minnkota.johnsonoutdoors.com](http://minnkota.johnsonoutdoors.com) and [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com).

## 1 | Purchase Ethernet Cables and Equipment

The Advanced GPS Navigation system connects to the Humminbird fish finder Ethernet port or the Humminbird Ethernet Switch. To purchase Ethernet switches, Ethernet cables, and extension cables, visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) [select Shop > Accessories > Cables].

Hardware	Ethernet Cables
Humminbird APEX or SOLIX Fish Finder	AS EC 10E, AS EC 20E, etc. [Ethernet Extension Cable] Various cable lengths are available. Visit our Web site at <a href="http://humminbird.johnsonoutdoors.com">humminbird.johnsonoutdoors.com</a> for details. The following cable is <b>not</b> compatible: AS EC QDE.
Ethernet Switch [AS ETH 5PXG]	AS EC 10E, AS EC 20E, etc. [Ethernet Extension Cable] Various cable lengths are available. Visit our Web site at <a href="http://humminbird.johnsonoutdoors.com">humminbird.johnsonoutdoors.com</a> for details. The following cable is <b>not</b> compatible: AS EC QDE.

To plan the required cable length, it is important to consider the following:

- The cables will be routed from the trolling motor to the Humminbird fish finder [or Ethernet Switch].
- The cables should be routed through an established routing system on the boat, in an area with minimal interference. Inspect the selected route carefully to ensure that there are no sharp edges, obstacles, or obstructions that may damage the cables.
- The cables will move with the trolling motor when it is deployed and retracted, so it is important to allow enough length for movement. **Check the Ulterra** when it is completely vertical, at its highest point [before trim] and at its lowest point.

## 2 | Confirm Installation of the Trolling Motor and Remote

1. Use your Minn Kota trolling motor operation's manual to confirm the trolling motor is correctly installed and mounted to the bow of the boat.
2. The boat and trolling motor must be located outside and have a direct view of the sky to obtain GPS satellite signals.
3. Verify that all obstructions are away from the propeller in all directions in both the stowed and deployed positions.
4. Connect power to the trolling motor.
5. Deploy the motor so the motor shaft is completely vertical.
6. The trolling motor will emit four short beeps on startup.
7. Turn off the power source.

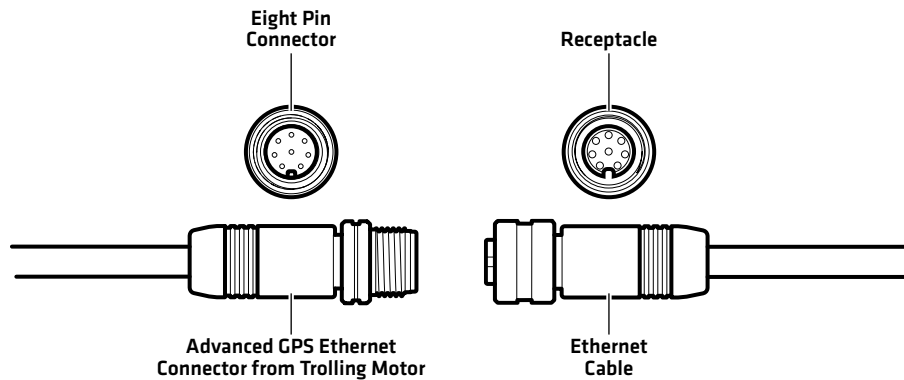


### 3 | Connect the Advanced GPS Navigation System to the Humminbird Fish Finder

Use the following instructions to connect the Advanced GPS Navigation System to the installed Humminbird fish finder. If you purchased the Humminbird Ethernet Switch, install it using the instructions in the included installation guide.

**⚠ WARNING!** The power source must be turned off before you proceed with the installation.

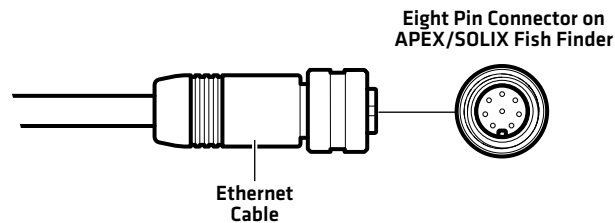
1. Confirm that all power sources are turned off.
2. Follow the instructions in the trolling motor Owner's Manual to connect and route the Eight-Pin Advanced GPS Ethernet Connector to the Ethernet Cable. The exact location and routing instructions will vary depending on the motor model.
3. To install the Ethernet Cable, align the pins on the Advanced GPS Ethernet Connector with the Receptacle on the Ethernet Cable. Notice the keyed connectors. Press the ends together and tighten the Collar from the Ethernet Cable to secure the connection.



4. Route the cable to the Humminbird fish finder or optional Ethernet Switch.


**📌 NOTE:** The cable should be routed through an established routing system on the boat, in an area with minimal interference. Inspect the selected route carefully to ensure that there are no sharp edges, obstacles, or obstructions that may damage the cables.

5. **Ethernet Switch:** Connect the Ethernet Cable connector to an available Ethernet port. Hand-tighten the screw nut to secure the connection.
6. **Humminbird APEX/SOLIX:** Align the Receptacle on the Ethernet Cable with the Eight Pin Connector on the APEX or SOLIX fish finder. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection. Once directly installed to the SOLIX or APEX, the connection is complete.



## 4 | Confirm Trolling Motor Connection on the Humminbird Fish Finder

After connecting the trolling motor to the Humminbird fish finder, it is important to confirm the connection. All equipment should be connected and powered before you turn on the fish finder.

 **NOTE:** If the trolling motor is connected during navigation, a message will display on-screen and navigation will be canceled.

### Power On

1. Turn on the power source and trolling motor.
2. Press the POWER key on the fish finder.
3. Select **Start Normal Mode**. When the first view is displayed on the screen, the fish finder is ready for operation.

### Check the System Status Bar

You can confirm the trolling motor connection by checking the system status bar. Each accessory connected to the APEX/SOLIX is represented by a status icon in the system status bar.





#### Status Bar (top of screen)




1. Press the HOME key.
2. Review the top, right corner of the status bar.

**Confirm the trolling motor is shown as Connected and Detected.** It may take up to one minute for the trolling motor to be detected.

**Unconnected:** If the trolling motor icon is not shown in the status bar, check the cable and power connections to confirm they are secure and powered on. Review the installation guide that was included with your trolling motor to confirm it is installed correctly.

Trolling Motor Status Icon	Icon Description
	<b>Connected and Detected:</b> Trolling motor is connected and detected on the network.
	<b>Detected and Enabled:</b> Trolling motor is connected to the network, enabled, and ready to be used for navigation or currently being used in manual mode (prop on, but not navigating).
	<b>Detected, Enabled, and Actively Navigating:</b> Trolling motor is connected to the network, enabled, and actively navigating.
	<b>Connected, but not Detected or Active:</b> Trolling motor is connected, but not detected on the network or enabled.

 **NOTE:** For additional system information, select Home > Settings > Network.




## 5 | Confirm GPS Reception

Use the instructions in this section to confirm the Humminbird has GPS reception. GPS is required to enable the navigation features on the fish finder.

### APEX/SOLIX Models

#### Check the System Status Bar

1. In the Home screen, review the top, right corner of the status bar, and confirm the GPS receiver is detected and active.

GPS Status Icon	Icon Description
	<b>Detected and Active:</b> The GPS receiver is detected and a GPS fix has been obtained.
	<b>Connected but not Transmitting/Receiving:</b> The GPS receiver is detected, but it doesn't have a GPS fix.
	<b>Connected but not Detected or Active:</b> The GPS receiver is connected, but not detected on the network or no GPS fix has been obtained.

2. If the Detected and Active icon is visible, GPS fix has been obtained.

If the GPS icon is not displaying in the system status bar, check the installation and the cable connection to the Humminbird fish finder.

#### Check GPS Reception and Satellite Strength

The GPS tool provides two ways to view the satellites communicating with the GPS Receiver. **Yellow** indicates that the satellite is being used to determine your current position. **Teal** indicates that the satellite is being monitored but not used. The following data is also displayed:

- **Position** [latitude and longitude]
- **GPS Fix Type:** reported as No Fix, 2D Fix, 3D Fix, or Enhanced. An Enhanced fix has been augmented using information from WAAS, EGNOS, or MSAS. A 3D or Enhanced Fix is required for navigation.
- **HDOP (the Horizontal Dilution of Precision):** a GPS system parameter which depends on the current satellite configuration. HDOP is used to calculate the Estimated Position Error.

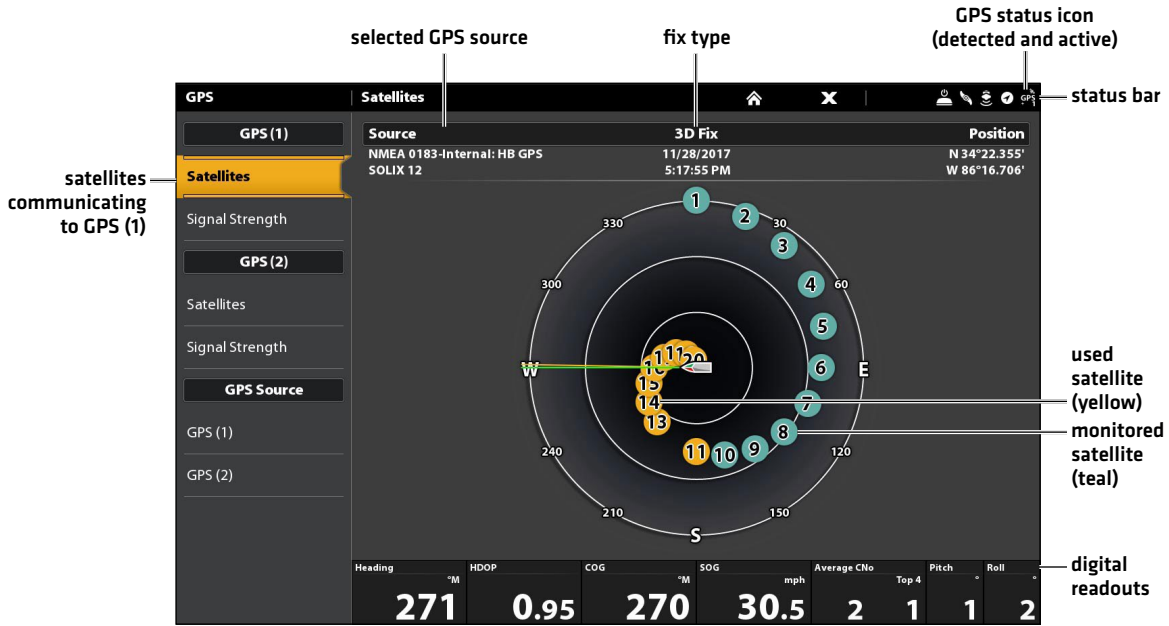
## Review Satellites

From the Home screen, select the **GPS** tool. Tap the icon, or press the ENTER key, to open.

Depending on your network configuration, select **GPS [1] > Satellites** or **GPS [2] > Satellites**.

**NOTE:** You can manually change which GPS receiver is the selected source for GPS [1] or GPS [2]. For more information about GPS and selecting GPS sources, see your Humminbird operations manual.

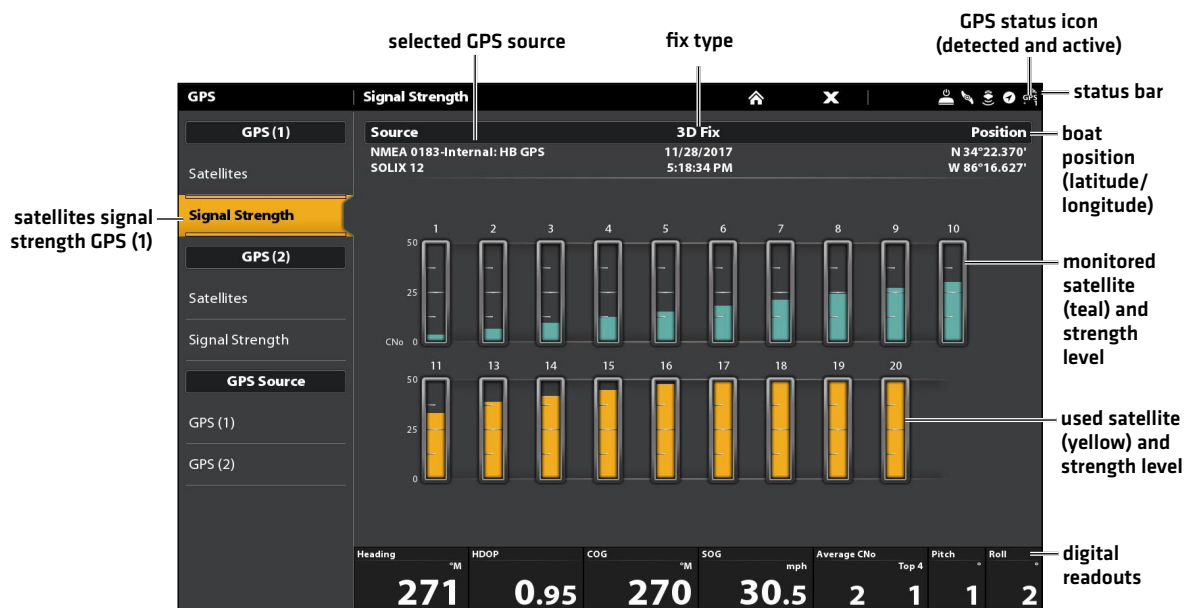
### GPS [1] Satellite Sky Chart



## Review Satellite Signal Strength

1. Under GPS [1] or GPS [2], select Signal Strength.

### Signal Strength (bar graph)



Signal Strength (GPS 1/GPS 2): displays vertical bar graphs indicating the satellite signal strengths with the respecting CNO (Carrier-to-Noise) value (0 to 60).

# UPDATE SOFTWARE

Your Humminbird model may need a software update to work with the Advanced GPS Navigation System. We recommend that you read the following section completely before starting any software updates.

**Humminbird Software:** Advanced GPS Navigation requires the following software versions:

- **APEX:** 3.920 or higher
- **SOLIX:** 3.0 or higher

**Minn Kota Wireless Remote and Controller:** The Advanced GPS Navigation system has separate software updates for the controller and remote. After the software is updated on the fish finder, you must go to the remote and initiate the download of the remote software to the remote itself. See your **Wireless Remote Owner's Manual** for details.

**Preparation:** We recommend that you read the following section completely before starting any software updates. The Humminbird fish finder will take approximately 10 minutes to update, and each Humminbird fish finder on the network must be updated individually. Accessories take approximately 3 minutes to update.

**Supplies:** In addition to your Humminbird equipment, you will need a computer with Internet access and a blank SD or microSD card [depending on your Humminbird model].

**Technical Support:** If you have any questions about the software update process, contact Technical Support through our Help Center at <https://humminbird-help.johnsonoutdoors.com/hc/en-us>.

## 1 | Register Products

Register your Humminbird equipment so that you will receive the latest Humminbird news, including accessory compatibility and software update information.

1. Go to our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com). Select Support > Register Your Product.
2. Follow the on-screen prompts to register your products.

## 2 | Check the Current Software Version

It is helpful to review the software version number that is currently installed on the fish finder and each accessory.

### APEX Series

1. Press the HOME key.
2. View the Software Version listed under System Info in the Data Dashboard.


### SOLIX Series

1. Press the HOME key.
2. Select Settings.
3. Select Network > Network Info.
4. The Network Info dialog box shows a section for each device connected to the network. Scroll to each section to note the software version number listed.

## 3 | Update Fish Finder Software

### Update Your Fish Finder Software with an SD Card


You will need an SD or microSD card [depending on your fish finder model].


 **WARNING!** Humminbird is not responsible for the loss of data files [waypoints, routes, tracks, groups, snapshots, recordings, etc.] that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder data files periodically. See your fish finder operations manual for more information.

1. Before the fish finder software is updated or restored to system defaults, export your navigation data and copy your screen snapshots to an SD or microSD card. See your fish finder operations manual for instructions.
2. Install a blank SD or microSD card into the computer card slot. If the card contains any previous software versions, delete them.
3. Go to [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com), and click Support > Software Updates.
4. Click on your fish finder series and model. If prompted with a question about your network, select the appropriate answer. The available software update is listed as a download at the bottom of the page.
  - Read the notices and instructions, and select Download. Your download will begin automatically.
  - Open your computer's downloads folder, and confirm that the software file name matches your fish finder model.
  - If the software file is a zipped folder, extract all files.
  - Move the software file or extracted files from the downloads folder to the SD or microSD card.
5. Repeat step 4 to download the software updates posted to each product.
6. Power on your Humminbird fish finder. Start **Normal** mode.
7. Insert the SD or microSD card [with the software file] into the fish finder card slot.
8. Follow the on-screen prompts to update the fish finder software.
9. When the software update is complete, remove the SD or microSD card from the fish finder card slot.
10. **Restart:** If you don't have any other software updates to install, power off the fish finder, and restart it.

## Update Software with the One-Boat Network App


You can use the One-boat Network App to download and push software updates directly to your Humminbird fish finder.

 **NOTE:** It is important to install the latest software update on your fish finder to enable all One-Boat Network features. For the latest software update, visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com).


 **NOTE:** You must first download the One-Boat Network App and pair your mobile device to your fish finder. See the **One-Boat Network App Operations Guide** for more information.

1. Open the One-Boat Network App on your mobile device.
2. From the Home screen, tap Network + Updates.
3. Under Humminbird Units, tap Download Update. The download progress is displayed on the screen.

You can also tap the More Options icon [...] next to the device you want to update, and then tap Download Update.

 **NOTE:** Your update may take several minutes to download. You may close the app while you wait for the download to complete.

4. Once your download is complete, tap Transfer Software.  
You can also tap the More Options icon [...] again, and then tap Transfer Software or Delete Software.
5. Confirm the estimated transfer time.
6. Tap the radial button to select where to upload the software update [Internal Storage, SD Card 1 or SD Card 2].

 **NOTE:** You cannot download software updates to an SD or microSD card with CoastMaster or LakeMaster charts saved to it.

7. Tap Start Transfer [Apple iOS] or Transfer [Google Android].  
The upload progress is displayed under the selected unit in the One-Boat Network App and in the System Status view on the fish finder.
8. Follow the on-screen prompts on the fish finder to complete the software installation.

## 4 | Update Accessory Software

If you have additional equipment connected to the network, update each product's software individually. Refer to the accessory operations manual for instructions.

### Update Accessory Software with an SD Card

You will need an SD or microSD card [depending on your fish finder model].

1. Insert an SD or microSD card into the computer card slot. If the card contains any previous software versions, delete them.
2. Go to [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com), and click Support > Software Updates.
3. Scroll down to Accessories and Mapping. Click on your accessory. The available software updates are listed as downloads at the bottom of the page.
  - Read the notices and instructions, and select Download. Your download will begin automatically.
  - Open your computer's downloads folder, and confirm that the software file name matches your accessory.
  - If the software file is a zipped folder, extract all files.
  - Move the software file or extracted files from the downloads folder to the SD or microSD card.
4. Power on your Humminbird fish finder. Start **Normal** mode.
5. Confirm that your accessory is detected by your fish finder.
6. Insert the SD or microSD card [with the software file] into the fish finder card slot.
7. The software will be automatically detected. It may take a few minutes for the software to be detected on the network, and the fish finder will display a dialog box to indicate that the update is in progress.
8. When the software update is complete, remove the SD or microSD card from the fish finder card slot.
9. **Restart:** If you don't have any other software updates to install, power off the fish finder, and restart it.

### Update Accessory Software with the One-Boat Network App

1. Open the One-Boat Network App on your mobile device.
2. Tap Network + Updates.
3. Tap Download Update next to the device you want to update. The download progress is displayed on the screen.
4. Tap Transfer Software next to the selected device once the download is complete.

# CONFIGURE ADVANCED GPS NAVIGATION WITH THE HUMMINBIRD

Use the instructions in this section to set up Advanced GPS Navigation on the Humminbird fish finder.

## 1 | Enable Trolling Motor Navigation

To start Advanced GPS Navigation from the APEX or SOLIX, Trolling Motor Navigation must be turned on. When Trolling Motor Navigation is turned on, the related Advanced GPS menus will be added to the menu system.

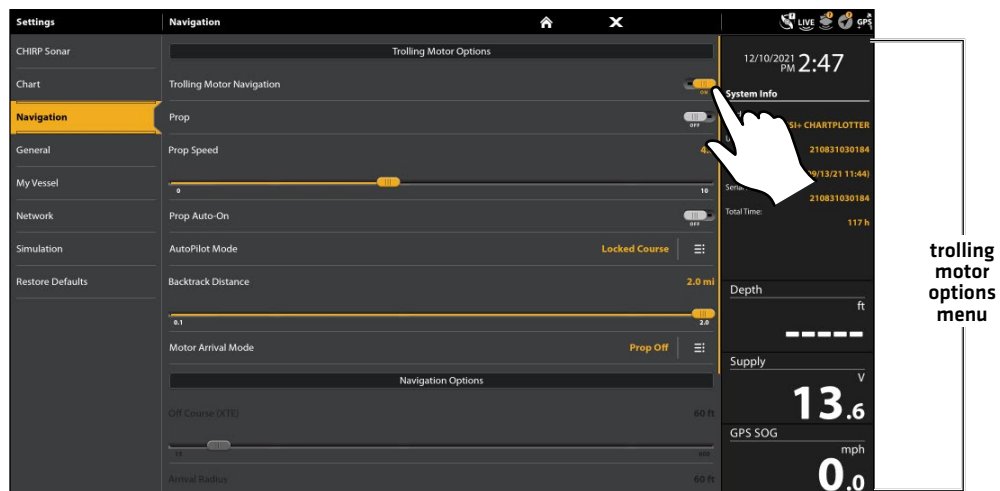
If Trolling Motor Navigation is turned off, your APEX/SOLIX fish finder will operate with its traditional Humminbird navigation features.

 **NOTE:** If Advanced GPS is connected during navigation, navigation will automatically be canceled. See **Installation: Confirm Advanced GPS Navigation Installation and Connection on the Humminbird Fish Finder.**

### Enable Trolling Motor Navigation

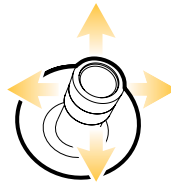
1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Navigation.
4. Tap the on/off button, or press the ENTER key, to turn Trolling Motor Navigation **ON**.

#### Turning On Trolling Motor Navigation



Tap to Select

OR



Select




Confirm



## 2 | Turn On/Off Prop Auto-On (optional)


When **Prop Auto-On** is turned on, the Advanced GPS Navigation system will start the selected navigation mode as soon as it is selected. The propeller will turn on at the current speed setting. If the Prop Auto-On menu is turned on, but the propeller is not turning, the speed might be set to 0. See **Propeller Controls** for more information.

When **Prop Auto-On** is turned off, you must start the propeller manually each time you select an Advanced GPS navigation mode. However, this menu does not apply to Spot-Locks and Cruise Control. These navigation modes will turn on the propeller as soon as they are engaged, regardless of the Prop Auto-On setting.

 **WARNING!** Spot-Locks and Cruise Control will turn on the propeller as soon as they are engaged, regardless of the Prop Auto-On setting.

### Turn On/Off Prop Auto-On

1. Under Trolling Motor Options, select Prop Auto-On.
2. Tap the On/Off button, or press the ENTER key, to turn it on or off.

 **WARNING!** When Prop Auto-On is turned on, the propeller will turn on when navigation features are used. Navigation features include working with iTracks and AutoPilot. Be sure the prop is clear from obstructions and hazards when using navigation features.


## 3 | Set the Arrival Mode

When you are navigating with Advanced GPS and reach the destination, set the Arrival Mode menu option to tell the system what to do next. The setting will determine if you will control the boat manually or transition to another type of Advanced GPS navigation after the destination point is reached.

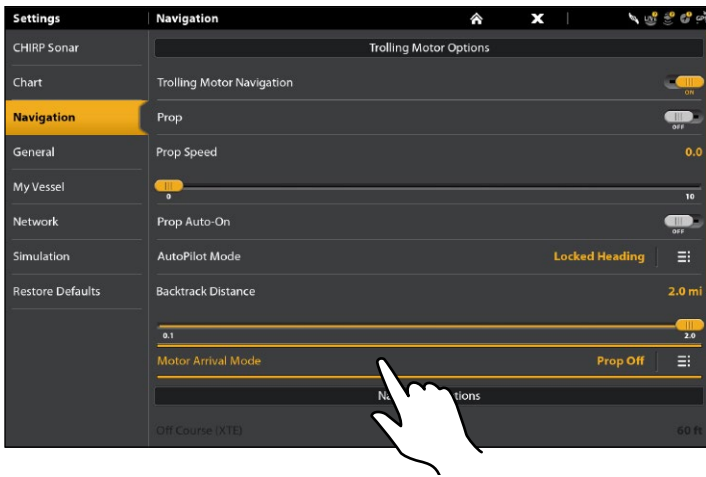
The Arrival Mode setting affects iTracks, routes, waypoints, and Spot-Locks. It does not apply to Follow the Contour, Follow the Shoreline or Circle Mode.

### Set the Arrival Mode

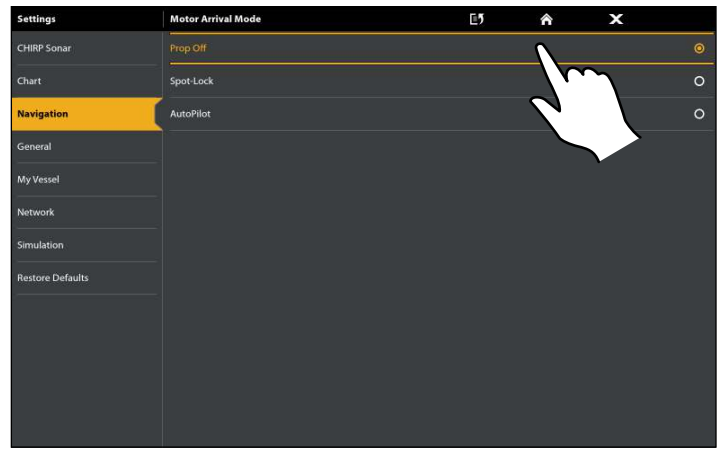
1. Under Trolling Motor Options, select Motor Arrival Mode.  
Tap, or press the ENTER key, to open the Motor Arrival submenu.
2. Select a menu option. Tap, or press the ENTER key, to select it.

Motor Arrival Mode Menu Options	
Prop Off	Turns off the propeller and returns the Advanced GPS to manual mode after navigation is finished. You must be prepared to take manual control of the boat.  <b>WARNING!</b> If AutoPilot is the current navigation mode, you must turn off the propeller separately. See <b>Propeller Controls</b> .
Spot-Lock	Creates and engages a Spot-Lock after navigation is finished. See <b>Spot-Locks</b> for details.
AutoPilot	<b>If the cursor is inactive</b> , navigation begins in the direction of the boat's Course Over Ground [COG] setting. If COG is not available, the current Heading [Hdg] is used. <b>If the cursor is active</b> , navigation begins in the direction of the cursor's position using bearing data from the active cursor.
Auto Deploy Raptor/Talon	After the boat has completed navigation, the system will deploy the Raptor/Talon.

## Opening the Motor Arrival Submenu

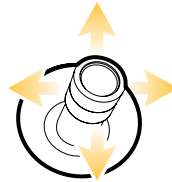


## Setting the Motor Arrival Mode



Tap to Select

OR



Select



Confirm

## 4 | Install a Map Card

Use a Humminbird map card to provide detailed maps, depth contours, etc. on the chart views. To use Follow the Contour or Follow the Shoreline, a compatible Humminbird map card must be installed and selected as the map source.

**Compatible Map Cards:** Humminbird CoastMaster, LakeMaster, LakeMaster PLUS, AutoChart ZeroLine, and ChartSelect. Visit [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) for the latest list of compatible charts.

1. Install a compatible map card.  
See your fish finder operations guide for installation details.
2. The fish finder will select the map source automatically. To change the map source manually, select Settings > Chart.



**WARNING!** Do not leave the SD slot cover open. The slot cover should always be closed to prevent water damage to the unit.

## 5 | Set the Water Level Offset

Before starting navigation, set the Water Level Offset setting to change the water level read by the Humminbird fish finder. For example, if the lake is down 5 feet, set the Water Level Offset setting to -5. The displayed numbers on the Contour Lines will adjust from the Water Level Offset setting, and the water level offset will be highlighted in brown to extend the land visually on the display.



**NOTE:** Humminbird must be selected as the Chart Source to enable this feature.

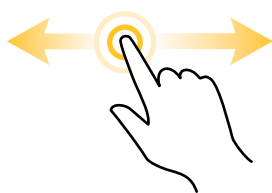
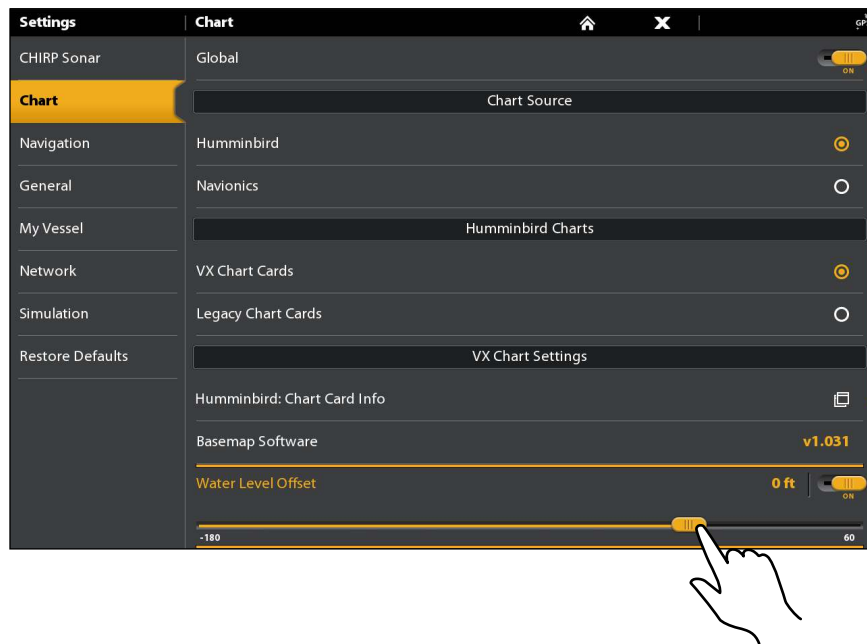
To apply depth colors, depth highlight range, shallow water, etc., see *Display Humminbird LakeMaster Contour Lines and Depth Ranges*.

### Set the Water Level Offset

1. Under Settings, select Chart.
2. Under Map Source, select Water Level Offset.
3. **On:** Tap the on/off button, or press the ENTER key, to turn it on.

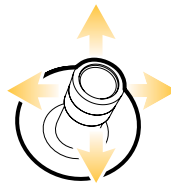
**Adjust:** Press and hold the slider, or turn the Rotary dial.

#### Setting the Water Level Offset

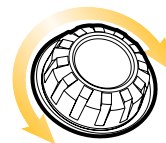


Press and Hold  
OR Slide

OR




Select



Turn to Adjust  
the Setting

## 6 | Turn On Trolling Motor Sync

Turn on Trolling Motor Sync to upload saved iTracks and Spot-Locks from the trolling motor. When Trolling Motor Sync is turned On, saved iTracks and Spot-Locks from the trolling motor are transferred to the fish finder, and saved iTracks and Spot-Locks from the fish finder are transferred to the trolling motor. Data will be transferred when you power on the fish finder, as well as any time new data is created on the trolling motor or the fish finder.

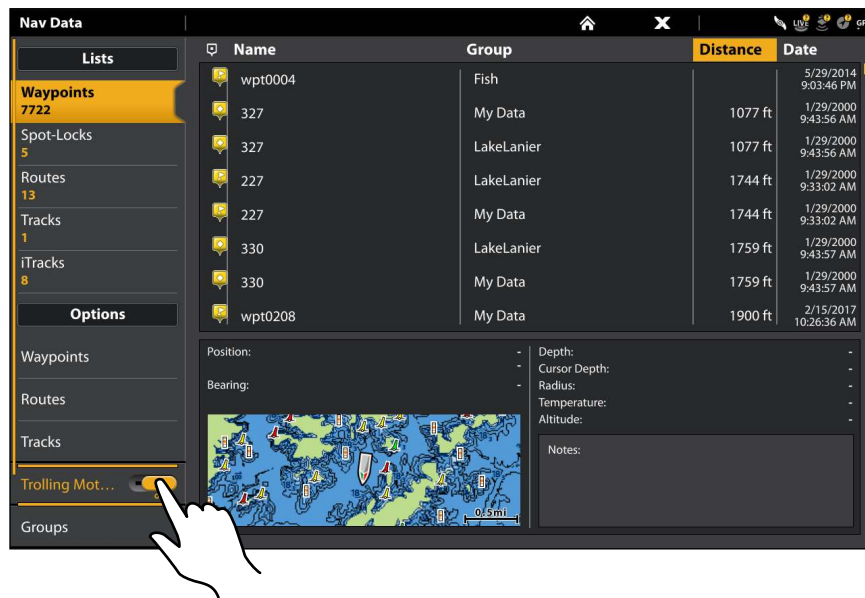
 **NOTE:** If there is not enough available memory space on the fish finder, an error message will display and data will not be transferred until more space is created on the Humminbird fish finder. See your Humminbird operations manual for information about managing navigation data.

 **NOTE:** For more information about exporting navigation data, see *Manage your Advanced GPS Navigation Data*.

### Turn On Trolling Motor Sync

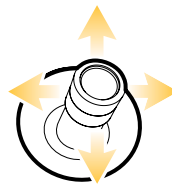
1. Press the HOME key.
2. Select the Nav Data tool. Tap the icon, or press the ENTER key, to open.
3. Under Options, select Trolling Motor Sync.
4. Tap the on/off button, or press the ENTER key, to turn it on.

#### Turning On Trolling Motor Sync



Tap to Select

OR



Select



Confirm

### Adjust Boat Scale

Trolling motor performance can be impacted by factors including, but not limited to, wind, water conditions, boat specifications, battery health, wiring, etc. Boat Scale provides a method of adjusting how the trolling motor will perform to account for these and other variables. The Minn Kota trolling motor comes from the factory with Boat Scale set to zero. This can be adjusted either up [+2] or down [-2] to increase or decrease the way the motor control software will apply power while using a navigation mode like Spot Lock.

An example of needing to reduce Boat Scale would be when the motor is over correcting or making many frequent adjustments while using Spot-Lock. In this case, try reducing Boat Scale -1 to reduce this behavior. If the behavior continues, reduce Boat Scale to -2. The opposite of this would be while using Spot-Lock, the motor is drifting away from its target location frequently or is struggling to make corrections. In this case, try increasing Boat Scale to +1 to help improve the motor's accuracy. If the behavior continues, increase Boat Scale to +2.

1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Setup and Calibration.
4. Select Boat Scale.
5. **Adjust:** Press and hold the slider, or turn the Rotary dial.

### Set the Stow Orientation

The Park Position is a term used to describe the lower unit and Prop position when the motor is stowed. The factory default for the lower unit is for the Prop to face outboard (Prop Left) on a Port installation. Setting the Park Position allows the installation to be customized to fit boat positioning for either a Port or Starboard installation. Use the setting to configure the Prop left or right to accommodate fishing or trailering applications.

1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Setup and Calibration.
4. Select Prop Stow Orientation.
5. Tap Prop Left or Prop Right.

### Set the Keel Mount Offset\*

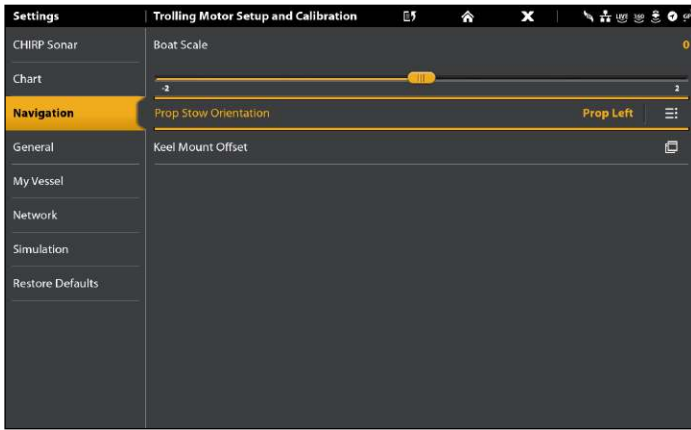
The Keel Mount Offset adjusts the position of the motor in relation to the Keel. This function is only performed on QUEST series motors.

Minn Kota QUEST series trolling motors with a built-in Heading Sensor come from the factory with the Lower Unit parallel to the Mount. The position of the Lower Unit is referred to as the Keel Offset. When the Lower Unit is parallel to the Mount, the Keel Offset is zero degrees. In an ideal installation, the Lower Unit will be parallel to the Keel, however, the Mount is rarely installed to be perfectly in-line with the Keel, therefore the Lower Unit will not be parallel with the Keel. Nearly all installations will have some variation in mounting position to either the Port or Starboard side of the boat. The Keel Offset is specified with the Keel Mount Offset function. When setting the Keel Offset, any position towards the Port will record a Keel Offset with a negative angle. Any position towards Starboard will record a Keel Offset with a positive angle. Before adjusting the Keel Offset, complete all installation steps. This includes mounting the trolling motor to the boat and installing power and accessory cables.

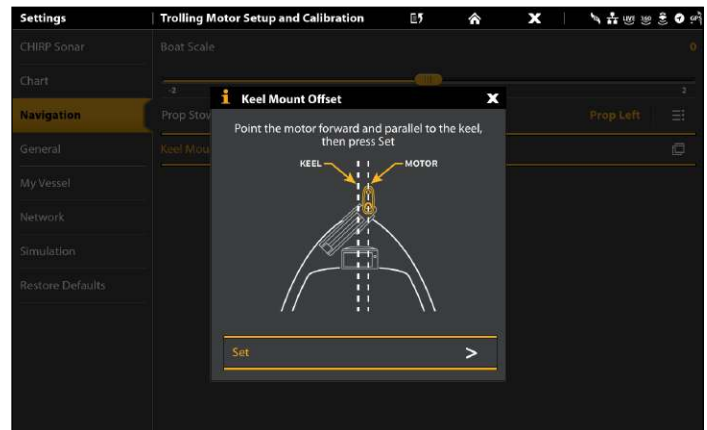
1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Setup and Calibration.
4. Select Keel Mount Offset.
5. Review all safety warnings. Select Start to begin the process.
6. Point the motor forward and parallel to the Keel.
7. When satisfied with the placement, tap Set.

\*QUEST Series motors only.

## Set the Stow Orientation



## Adjust Keel Mount Offset



## Set the Heading Sensor Calibration

This function is only performed on motors with an external Heading Sensor. The process of calibrating the Heading Sensor must occur while your boat is on the water. Heading Sensor Calibration should always be performed after the trolling motor and Heading Sensor have been mounted, but before the Heading Sensor Offset is performed. The Heading Sensor must be connected to power and paired with the control head of the trolling motor before beginning this process. The calibration process requires the boat to be driven in two complete circles, so plan accordingly when preparing for this process.

1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Setup and Calibration.
4. Select Calibrate Heading Sensor.
5. Review all safety warnings. Select Start to begin the process.
6. Drive the boat in two complete circles.
7. The progress of the boat around the circular path will show as a percentage completed for each circle while the boat navigates.
8. Once the two circles are complete, the screen will read "Calibration Successful. Please perform Sensor Offset."
9. Select Start Sensor Offset to begin or press Exit return to the home screen.

## Set the Heading Offset

With the Heading Sensor calibrated, set the Heading Offset. Heading Offset is the difference between the angle of the Keel of the boat and the angle at which the Heading Sensor is mounted to the deck of the boat. During installation, the Heading Sensor was installed to be as parallel to the Keel of the boat as possible. If the boat and Heading Sensor are perfectly parallel and pointing in exactly the same direction, the Offset will be a perfect 0° degrees. Knowing that installations are never perfect, the Heading Offset can be set to compensate for the difference between the two.

1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Trolling Motor Setup and Calibration.
4. Select Offset Heading Sensor.
5. Review all safety warnings. Select Start to begin the process.
6. Point the motor forward and parallel to the Keel.
7. When satisfied with the placement, tap Set.

## 8 | Set Straight on Deploy\*

Minn Kota recommends setting the Keel Offset when the position of the Lower Unit is parallel with the Keel. Save the Keel Offset before exploring the Straight on Deploy feature. Straight on Deploy uses the position recorded in Keel Offset to know where to position the Lower Unit to be parallel with the Keel. When Straight on Deploy is engaged, the trolling motor will deploy the motor and automatically rotate the Lower Unit to the position saved to memory in Keel Offset. By default, the Lower Unit will be parallel to the Keel when the Mount is parallel to the Keel. If the Keel Offset was programmed to another angle, the Straight on Deploy feature will correct the position to match the corrected angle when turned “on.” If straight on deploy is turned “off,” the trolling motor will not correct the position in any direction.

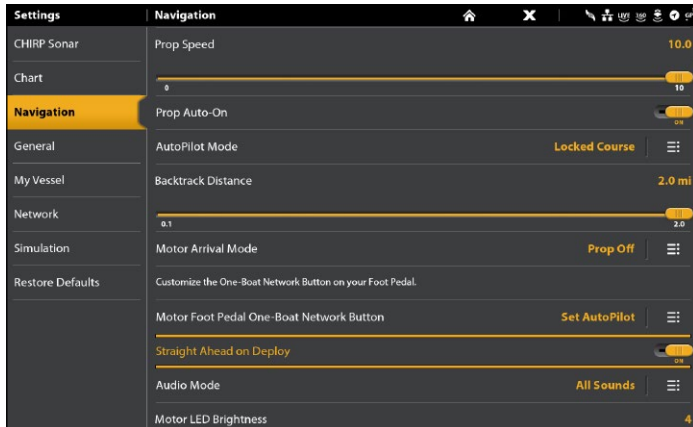
1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Straight Ahead on Deploy.
4. Tap the on/off button, or press the ENTER key, to turn Straight Ahead on Deploy **ON**.

## 9 | Customize Foot Pedal One-Boat Network Button\*

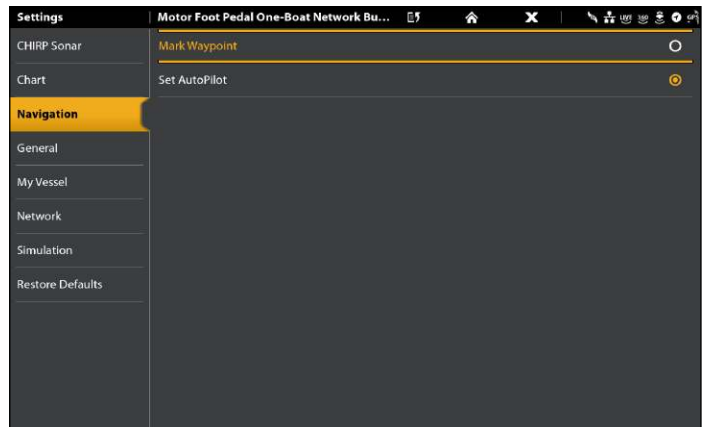
Minn Kota QUEST trolling motors have a programmable One-Boat Network button on the foot pedal. You can customize the One-Boat Network button function from the fish finder.

1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Motor Foot Pedal One-Boat Network Button.
4. Select one of the following options: Set AutoPilot, Mark a Waypoint, or Deploy Shallow Water Anchor.

**Turn On Straight Ahead on Deploy**



**Set Foot Pedal One-Boat Network Button**



\*QUEST Series motors only.

# SET UP TROLLING MOTOR ALARMS

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Use the instructions in this section to set trolling motor alarms. When an alarm is turned on, an alert will sound and/or display on the Humminbird fish finder to indicate the threshold has been met or exceeded. For more information about alarms or to set additional alarms, see your Humminbird operations manual.



**NOTE:** When Motor Navigation is turned on in the menu system, the Arrival Alarm in the Alarms menu is replaced by the Trolling Motor Pre-Arrival Alarm, and the Off Course [XTE] Alarm is replaced by the Trolling Motor Off Course [XTE] Alarm.

## 1 | Set the Pre-Arrival Alarm

The Trolling Motor **Pre-Arrival Alarm** provides an alert when the boat is within the set distance to the destination point in a waypoint, route, or iTrack. For example, if Advanced GPS is navigating an iTrack, and the Pre-Arrival Alarm is set to 100 feet, the alert will trigger when the boat is within 100 feet from the iTrack End Point.

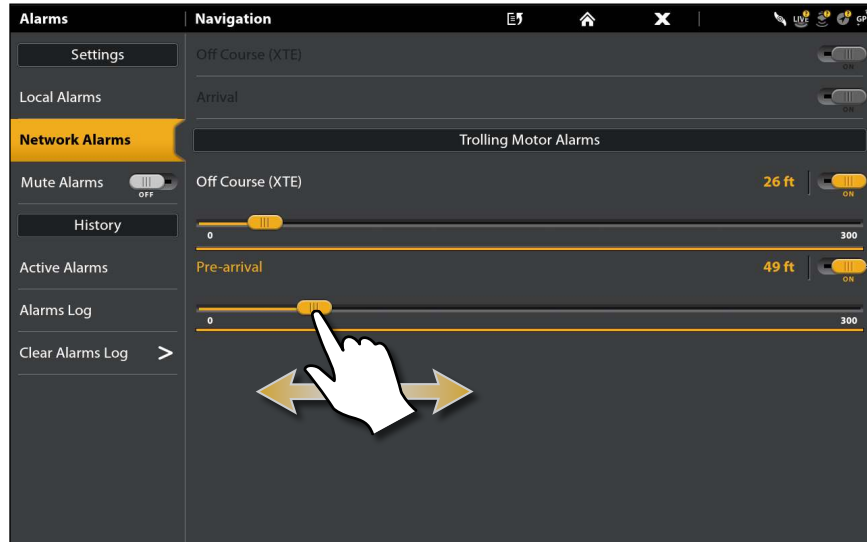


**CAUTION!** When the alert sounds, the Advanced GPS Navigation system will soon transition to the type of navigation set in the Arrival Mode menu option. Be prepared that you may need to take manual control of the boat. See **Configure Advanced GPS Navigation with the Fish Finder: Set the Arrival Mode.**

1. Press the HOME key.
2. Select Alarms.
3. Under Settings, select Network Alarms.
4. Select Navigation.
5. Under Trolling Motor Alarms, select Pre-arrival.
6. **On/Off:** Tap the on/off button, or press the ENTER key, to turn it on  
**Adjust:** Press and hold the slider, or turn the Rotary dial, to adjust the alarm threshold.

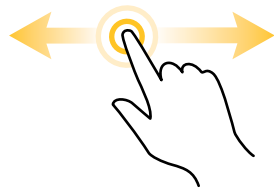


## Setting the Trolling Motor Pre-Arrival Alarm



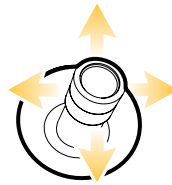
When Trolling Motor Navigation is turned on, the Arrival Alarm is replaced by the Trolling Motor Pre-Arrival Alarm, and the Off Course (XTE) Alarm is replaced by the Trolling Motor Off Course (XTE) Alarm.

Turn the alarm On, then adjust the setting.



Press and Hold  
OR Slide

OR



Select



Turn to Adjust  
the Setting

## 2 | Set the Off Course [XTE] Alarm

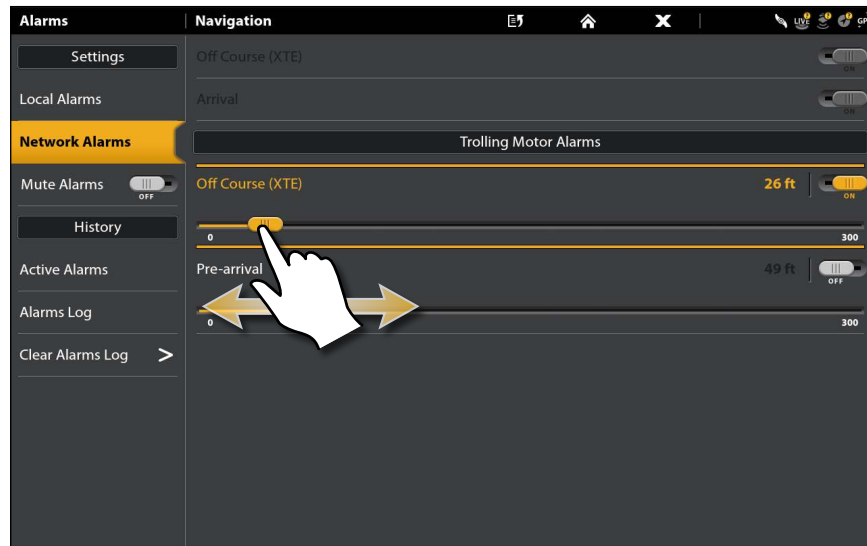
The Trolling Motor **Off Course [XTE] Alarm** provides an alert when the boat has traveled outside the selected route. You can set how far the boat is allowed to move off course before the alarm is triggered.

 **NOTE:** To set the Off Course [XTE] parameters and display the Off Course [XTE] Limit, see your Humminbird operations manual.

1. From the Trolling Motor Alarms menu, select Off Course [XTE].
2. **On/Off:** Tap the on/off button, or press the ENTER key, to turn it on.

**Adjust:** Press and hold the slider, or turn the Rotary dial, to adjust the alarm threshold.

### Setting the Trolling Motor Off Course [XTE] Alarm



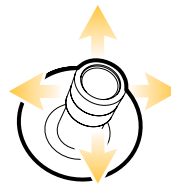
When Trolling Motor Navigation is turned on, the Arrival Alarm is replaced by the Trolling Motor Pre-Arrival Alarm, and the Off Course (XTE) Alarm is replaced by the Trolling Motor Off Course (XTE) Alarm.

Turn the alarm On, then adjust the setting.



Press and Hold  
OR Slide

OR



Select



Turn to Adjust  
the Setting

## Confirm an Activated Alarm

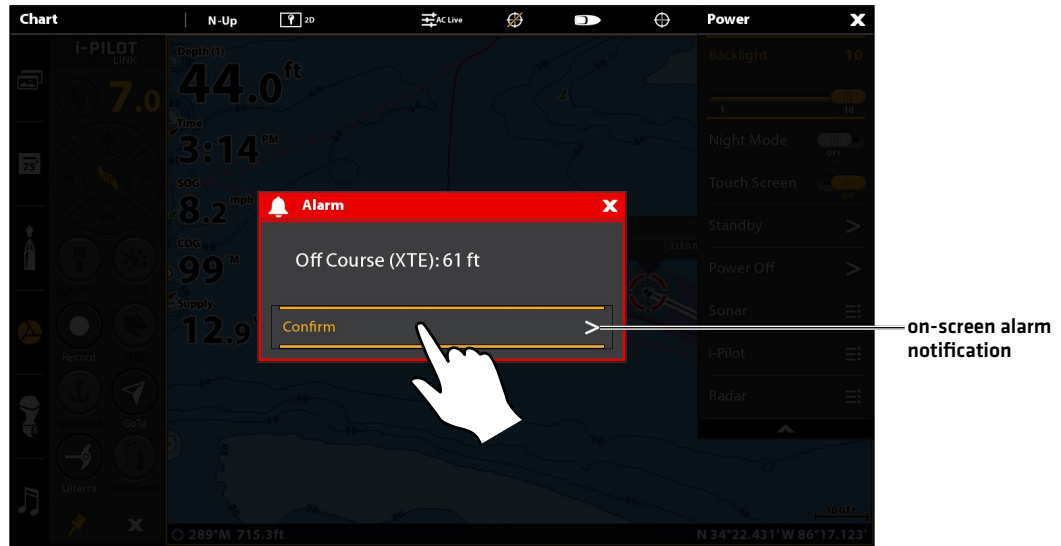
When an alarm is triggered, an alert will sound and/or display on-screen to indicate the threshold has been exceeded. Use the instructions below to silence a triggered alarm.

1. In the on-screen alarm notification box, tap Confirm.

**OR**

Press the ENTER key.

### Confirming an Activated Trolling Motor Alarm



**Tap to Select**

**OR**



**Confirm**

# DISPLAY THE TROLLING MOTOR NAVIGATION DATA BAR

The APEX and SOLIX side bar includes widgets that allow you to quickly access your data bars and Trolling Motor virtual remote. The side bar is set to always display on the Home screen, but it can be hidden in other views. For more information about using and customizing the side bar, see your Humminbird operations manual.

## Display the Trolling Motor Navigation Data Bar

The side bar includes a Navigation Data Bar widget. With a connected Advanced GPS trolling motor, the data bar includes preset data boxes displaying trolling motor navigation information, such as the current method of navigation [iTrack, route, AutoPilot, etc.] and Prop Speed.

## Display the Trolling Motor Navigation Data Bar

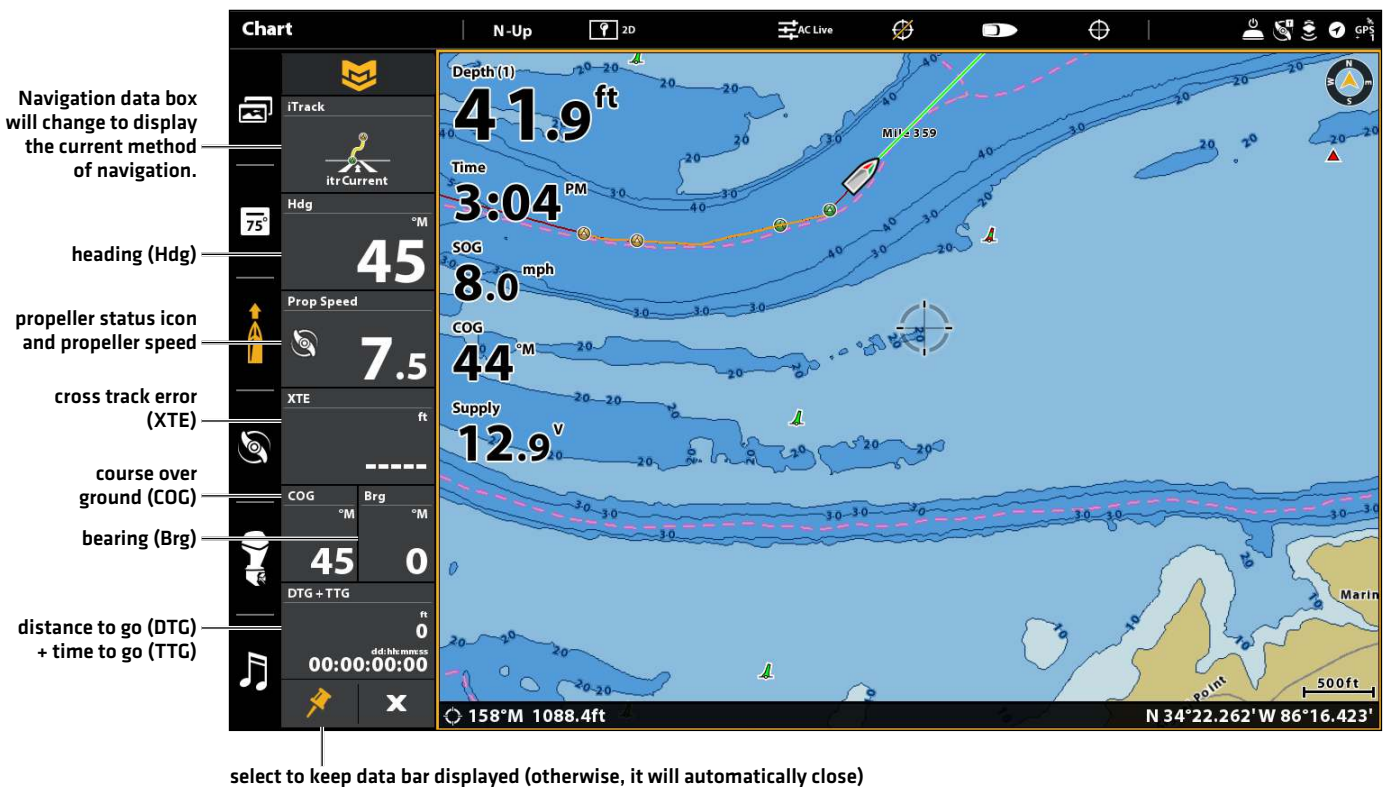
### Touch Screen

1. Tap the Navigation Data Bar icon in the side bar.

### Keypad

1. With a view displayed on-screen, press the PANE key once. In a multi-pane view, press the PANE key repeatedly until the menu displays.
2. Select the Navigation data bar from the side bar. Press the ENTER key.

Chart View with Trolling Motor Navigation Data Bar Displayed



## Trolling Motor Navigation Data Boxes

The Trolling Motor Navigation Data Bar displays the following information in the preset data boxes:

Data Box	Data Box Description
<b>Navigation</b>	The current method of navigation. For example, whether you are currently navigating to a waypoint, route point, Spot-Lock, etc. Or, if you are currently navigating an iTrack, route, contour, or navigating with AutoPilot [Advanced or Legacy].
<b>Heading [Hdg]</b>	The direction the boat is pointing, measured in degrees. Due to wind and waves, the boat is often traveling in a slightly different direction than its heading. See <b>Course Over Ground [COG]</b> .
<b>Propeller Status and Speed</b>	The current trolling motor propeller status (on, on and rotating, off) and the propeller speed.
<b>Cross Track Error [XTE]</b>	The straight-line distance of the boat from the intended Track. XTE measures how far the boat is off course.
<b>Course Over Ground [COG]</b>	The current direction the boat is traveling, measured in degrees from North. When the COG is equal to Bearing, the boat is said to be on course and will arrive at the destination in the most efficient manner.
<b>Bearing [Brg]</b>	The compass direction from the vessel position to the next waypoint or route point.
<b>Distance to Go [DTG] + Time to Go [TTG]</b>	The distance between the vessel position and the next point on the current route, and the estimated time required to reach the next point on the current route.

### Change the Data Boxes (optional)

To change the data boxes displayed in the data bar, see your Humminbird operations manual.

# DISPLAY SPOT-LOCKS AND iTRACKS ON THE CHART VIEW

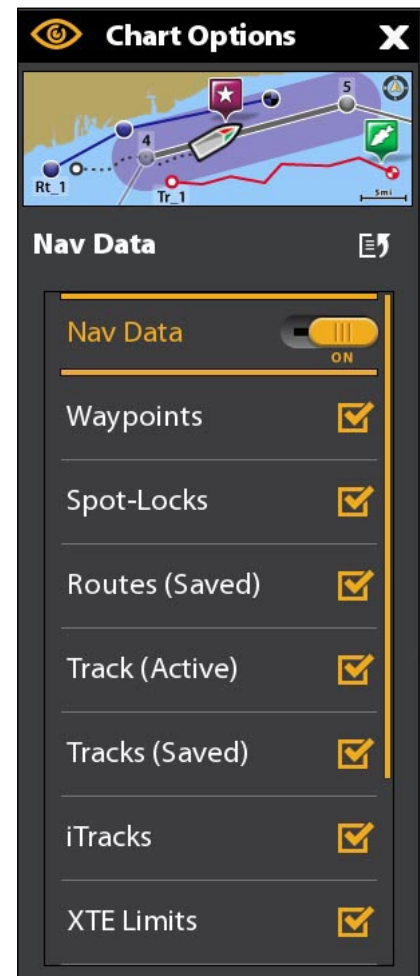
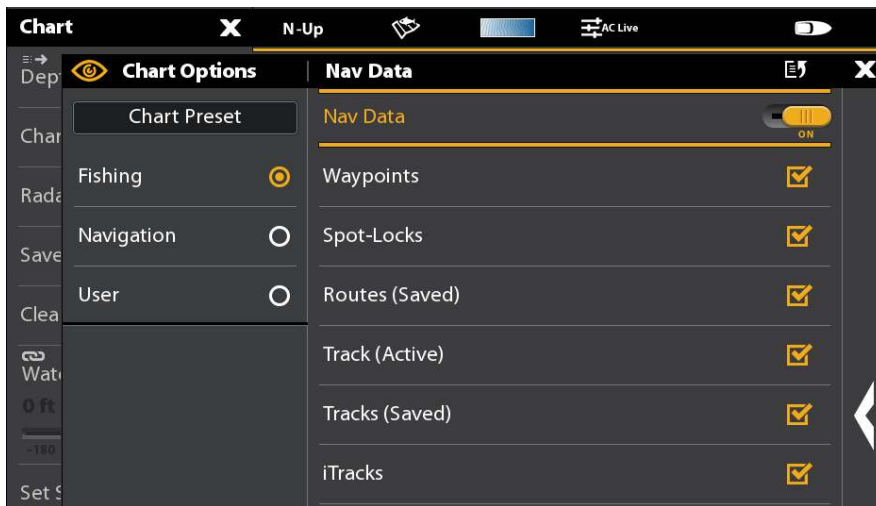
Use the following instructions to display Spot-Locks and iTracks on the Chart View. For more information about customizing your Chart display, see your Humminbird operations manual.

## Humminbird Charts with VX Technology

1. With Chart View displayed on-screen, tap Chart in the status bar.  
**OR**  
Press the MENU key once.
2. Select Chart Options.
3. Select a Chart Preset.
4. Select Nav Data.
5. **On/Off:** Tap the on/off button, or press the ENTER key, to select On.
6. Add a check mark to Spot-Locks to make them visible on the Chart View.
7. Add a check mark to iTracks to make them visible on the Chart View.
8. Press the EXIT key to close the menu.

## Humminbird Legacy Charts

1. With Chart View displayed on-screen, tap Chart in the status bar.  
**OR**  
Press the MENU key once.
2. Select Chart Options.
3. Select Overlays > Nav Data.
4. **On/Off:** Tap the on/off button, or press the ENTER key, to select On.
5. Add a check mark to Spot-Locks to make them visible on the Chart View.
6. Add a check mark to iTracks to make them visible on the Chart View.
7. Press the EXIT key to close the menu.



# DISPLAY CONTOUR LINES AND DEPTH RANGES

When you install a CoastMaster Map Card, LakeMaster Map Card or LakeMaster PLUS Map Card, menu options are added to the menu system. You can display or hide contour lines, highlight shallow water, and highlight a depth range on the map.



**NOTE:** A Humminbird CoastMaster or LakeMaster Map Card must be installed and selected as the map source to enable these features. For details and additional features related to your CoastMaster or LakeMaster Map Card, see your Humminbird operations manual.

## Humminbird Charts with VX Technology

### Display Contour Lines and Depth Colors

1. With a Chart View displayed on-screen, tap Chart in the status bar, or press the MENU key once.
2. Select Chart Options.
3. Select Depths/Contours.
4. Select the following menus to your preference.

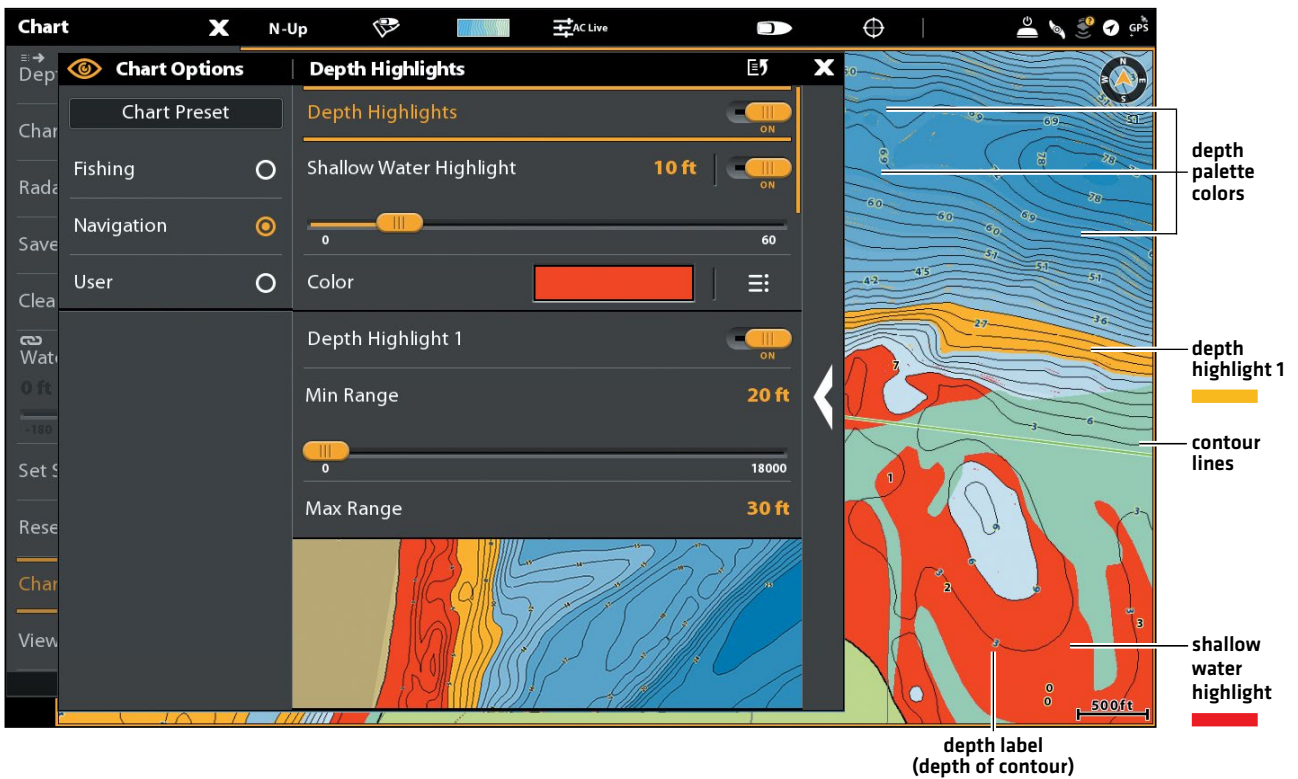
<b>Contour Lines</b>	Turn on Contour Lines to display contour lines on the map.
<b>Contour Density</b>	Use Contour Density to adjust the density of the contour lines displayed on the map. You can set the density to High, Medium, or Low. Contour lines must be turned on to adjust this feature. Contour density can only be customized in the Fishing and User presets. Navigation contour density cannot be changed.
<b>Depth Palette</b>	Turn on Depth Palette to turn on depth area colors in the Chart View.
<b>Palette Min/Max Range</b>	You can adjust the range of data shown on the chart by changing the minimum range and maximum range on the display. The range you select affects how the depth colors are displayed. For best results, set a narrow depth range threshold. For example, set the Palette Min Range to 100 and the Palette Max Range to 200.
<b>Color Palette</b>	Use Color Palette to change the colors used to display the map. You can also change this setting by tapping the color palette icon in the status bar.

### Set Depth Highlights

1. With a Chart View displayed on-screen, tap Chart in the status bar, or press the MENU key once.
2. Select Chart Options.
3. Select Depths Highlights.
4. Select the following menus to your preference.

<p><b>Depth Highlight</b></p>	<p>Turn on Depth Highlight to highlight a depth setting in the Chart Views. The depth you set will be highlighted in the color selected. You can set up to four depth highlights.</p>
<p><b>Highlight Range</b></p>	<p>When a Depth Highlight is active in the Chart Views, use Highlight Range to highlight a range on each side of the highlighted depth. For example, if you know a certain fish is holding at 18 to 20 feet, you can set the Depth Highlight at 19 feet, and the Highlight Range a +/- 1 foot. The view will show a green band from 18 to 20 feet.</p>
<p><b>Shallow Water Highlight</b></p>	<p>Turn on Shallow Water Highlight and adjust the slider. When the depth is equal to or less than the amount set, it will be highlighted in red (or the color you select) in the Chart Views. For example, if your boat has a draft of 3 feet, set the Shallow Water menu to 3 feet, and the unit will draw a red band from 0 to 3 feet.</p>

**Adjusting the Vx Chart Card Display Settings**



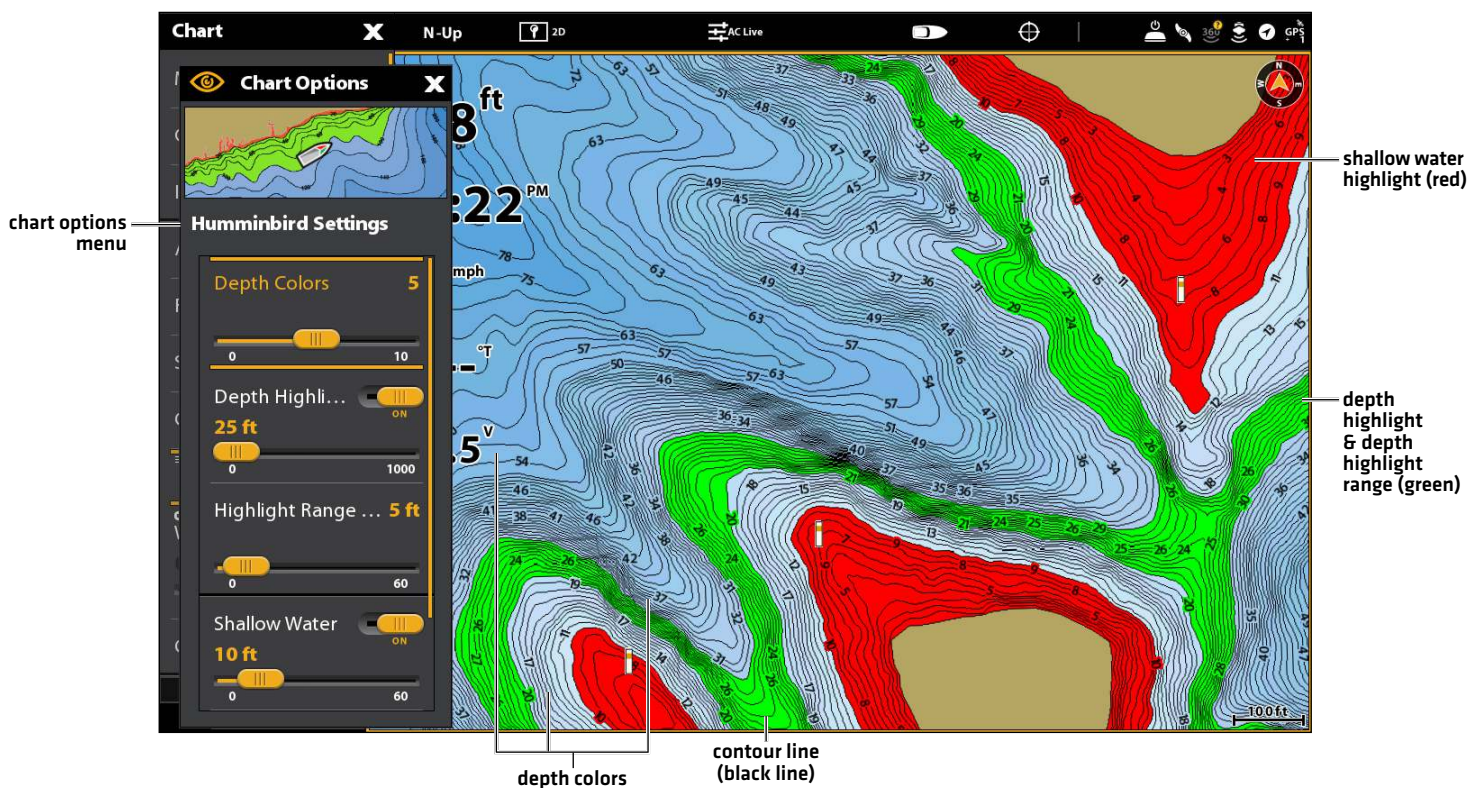


## Humminbird Legacy Charts

1. With a Chart View displayed on-screen, tap Chart in the status bar, or press the MENU key once.
2. Select Chart Options.
3. Select Humminbird Settings.
4. Select the following menus to your preference.

<b>Depth Colors</b>	Turn on Depth Colors and adjust the range for depth shading in the Chart Views.
<b>Depth Highlight</b>	Turn on Depth Highlight to highlight a depth setting in the Chart Views. The depth you set will be highlighted in green. Use Depth Highlight with Highlight Range.
<b>Highlight Range</b>	When a Depth Highlight is active in the Chart Views, use Highlight Range to highlight a range on each side of the highlighted depth. For example, if you know a certain fish is holding at 18 to 20 feet, you can set the Depth Highlight at 19 feet, and the Highlight Range a +/- 1 foot. The view will show a green band from 18 to 20 feet.
<b>Shallow Water</b>	Turn on Shallow Water and adjust the slider. When the depth is equal to or less than the amount set, it will be highlighted in red in the Chart Views. For example, if your boat has a draft of 3 feet, set the Shallow Water menu to 3 feet, and the unit will draw a red band from 0 to 3 feet.
<b>Contour Interval</b>	Turn on Contour Interval to display lines at set intervals on the Chart View. Adjust the slider to set the distance between each line. Contour Interval is also affected by the Water Level Offset setting. See <i>Configure Advanced GPS Navigation with the Fish Finder</i> and <i>Follow the Contour</i> .

### Adjusting the Humminbird LakeMaster Display Settings



# DEPLOY OR STOW THE TROLLING MOTOR

If you have Ulterra, Ulterra QUEST or RT Instinct QUEST trolling motor installed, you can deploy or stow the motor using the trolling motor virtual remote on the Humminbird fish finder.

**⚠️ WARNING!** Before you deploy or stow the motor, confirm the motor is clear from obstructions and has a clear path of travel. The propeller is disabled while the motor is being trimmed to prevent accidental contact with the rotating propeller.

## Open the Ulterra Dialog Box

### Touch Screen

1. Tap the trolling motor icon in the side bar.
2. Tap the Ulterra tab.

### Keypad

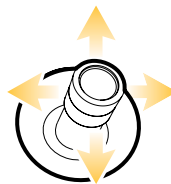
1. Press the PANE key. In a multi-pane view, press the PANE key repeatedly until the side bar is highlighted yellow.
2. Use the Joystick to select the trolling motor icon. Press the ENTER key.
3. Use the Joystick to select the Ulterra tab. Press the ENTER key.

### Opening the Ulterra Deploy/Stow Dialog Box



Tap Tab to Open

OR



Select Ulterra Tab



Open

## Deploy the Motor

The first time you deploy the motor (after installation or after defaults have been reset), you will adjust the trim for operation. The control head will save the most-recent trim setting and apply it when the motor is deployed again.



**WARNING!** As soon as Deploy is selected, the motor will deploy automatically. Before you deploy or stow the motor, confirm the motor is clear from obstructions and has a clear path of travel. The propeller is disabled while the motor is being trimmed to prevent accidental contact with the rotating propeller.

### Touch Screen

1. Open the Ulterra dialog box.
2. Tap the Deploy button.

**Trim Adjust (Installation only):** Tap the Trim up or down arrows.

**Pause:** Tap the Pause button.

### Keypad

1. Open the Ulterra dialog box.
2. Select the Deploy button. Press the ENTER key.

**Trim Adjust (Installation only):** Select a Trim up or down arrow. Press the ENTER key to move the motor in the selected direction.

**Pause:** Select the Pause button.

## Pause Deploying or Stowing

Use the following instructions to pause the trolling motor while it is being deployed or stowed.

### Touch Screen

1. Open the Ulterra dialog box.
2. Tap the Pause button.

**To resume deploying,** see *Deploy the Motor*.

**To resume stowing,** see *Stow the Motor*.

### Keypad

1. Open the Ulterra dialog box.
2. Select the Pause button. Press the ENTER key.

**To resume deploying,** see *Deploy the Motor*.

**To resume stowing,** see *Stow the Motor*.

## Adjust the Trim

Use the following instructions to adjust the trim. The Trim menu is available when the motor is deployed. The control head will save the most recent trim setting and apply it when the motor is deployed again, even after power off.

### Touch Screen

1. Open the Ulterra dialog box.
2. Tap the Trim up or down arrows.

### Keypad

1. Open the Ulterra dialog box.
2. Select a Trim up or down arrow. Press the ENTER key to move the motor in the selected direction.

## Prop On/Off

Use the following instructions to turn on the prop from the Ulterra dialog box.

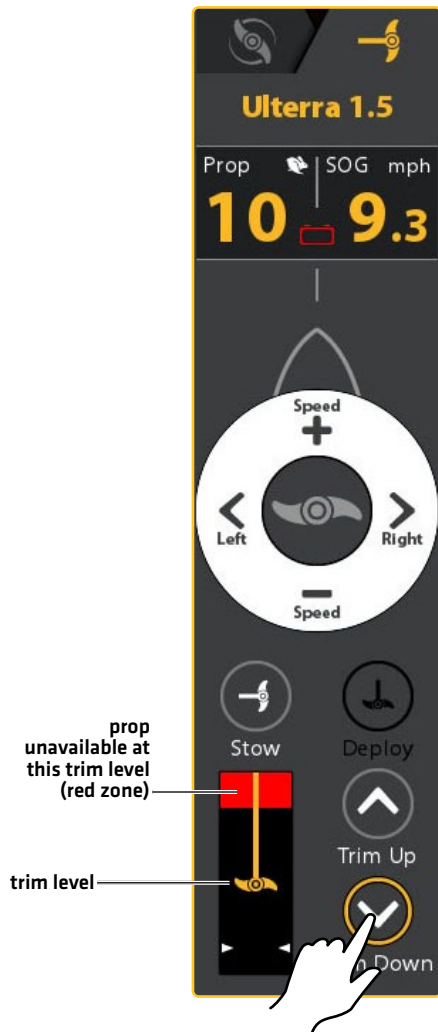
### Touch Screen

1. Open the Ulterra dialog box.
2. Tap the Propeller button to turn it on/off.

### Keypad


1. Open the Ulterra dialog box.
2. Select a Trim up or down arrow. Press the ENTER key to move the motor in the selected direction.

### Adjusting the Trim (Ulterra only)




### Turning on the Propeller (Ulterra only)



 **NOTE:** If a button is grayed-out, the action/command is unavailable.

## Stow the Motor

Use the following instructions to stow the Ulterra trolling motor.

 **WARNING!** As soon as Stow is selected, the motor will stow automatically. Before you deploy or stow the motor, confirm the motor is clear from obstructions and has a clear path of travel. The propeller is disabled while the motor is being trimmed to prevent accidental contact with the rotating propeller.

### Touch Screen

1. Open the Ulterra dialog box.
2. Tap the Stow button.

### Keypad

1. Open the Ulterra dialog box.
2. Select the Stow button. Press the ENTER key.

# ADVANCED GPS NAVIGATION OVERVIEW

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Advanced GPS Navigation 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 Advanced GPS 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, Advanced GPS remembers and creates points to navigate your boat automatically. Advanced GPS also uses a method of GPS navigation called arrival circles. These imaginary circles allow Advanced GPS 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 the GPS signal strength, thus the greater the signal strength, the smaller the arrival circles.

## Using Advanced GPS Navigation with the Humminbird Fish Finder

- With a connected Advanced GPS Navigation trolling motor, you can initiate navigation from the Humminbird fish finder or Wireless Remote, and the Advanced GPS Navigation system will automatically start navigating the boat. Commands initiated from the remote will also be displayed on the fish finder.
- The Advanced GPS Navigation features and menu options are displayed in the Chart View and Radar View, as well as the Chart and Radar multi-pane views. The following sections in this manual include instructions for the Chart View. The instructions will work the same for the Radar View, except for Follow the Contour and Follow the Shoreline navigation, which are not available in the Radar View.
- Depending on your model and network configuration, the Humminbird fish finder uses GPS data from the internal or external [networked] GPS receiver.
- Some of the Advanced GPS Navigation functions may override traditional Humminbird navigation menu options. Alarms have also been adapted to the Advanced GPS Navigation system.
- To use Follow the Contour or Follow the Shoreline, a Humminbird CoastMaster Map Card, LakeMaster Map Card, AutoChart ZeroLine Map Card, or AutoChart Live connection is required.



**NOTE:** For the latest chart card compatibility information, visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com).

## Open the Chart View

You can open the Chart View from the Favorite Views widget or the Views tool.

## Favorite Views Widget

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### Touch Screen

1. Tap the Favorite Views widget icon [in the side bar].
2. Tap the Chart View to display it on-screen.

### Keypad

1. Press the PANE key.
2. Use the Joystick to select the Favorite Views widget [in the side bar].
3. Press the ENTER key to open it.

## Views Tool

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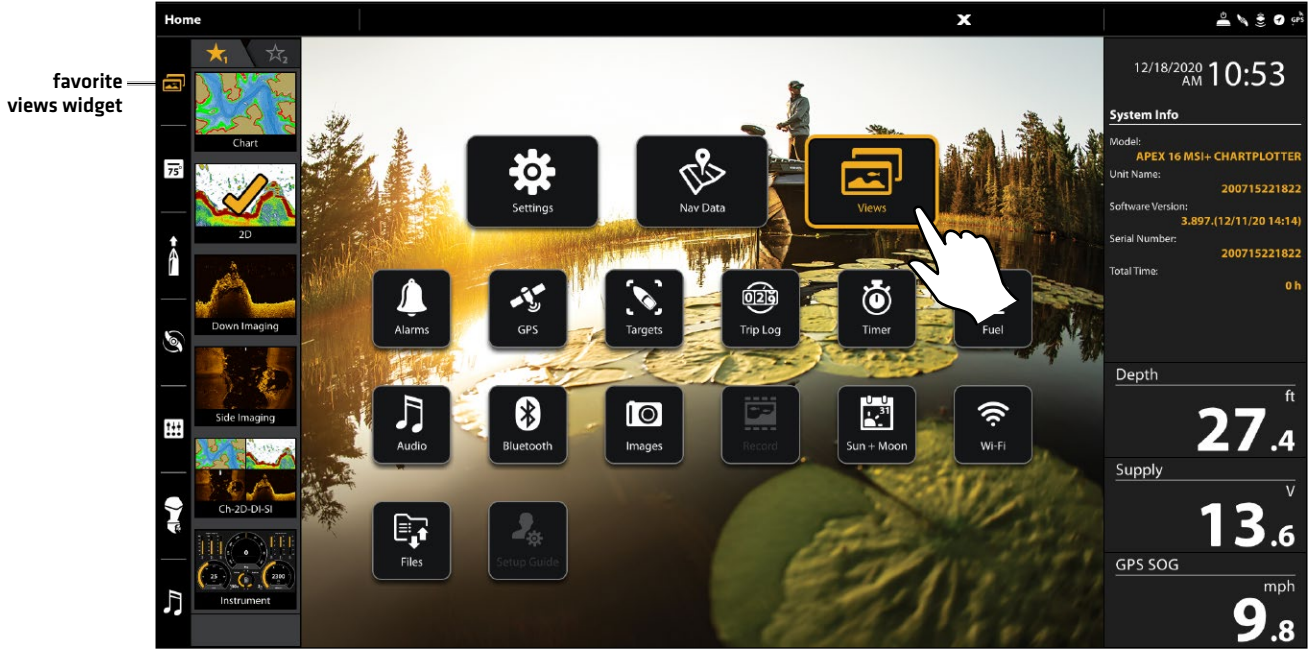
### Touch Screen

1. Swipe down with two fingers to go to the HOME screen.
2. Tap the Views tool.
3. Tap the Chart View to display it on-screen.

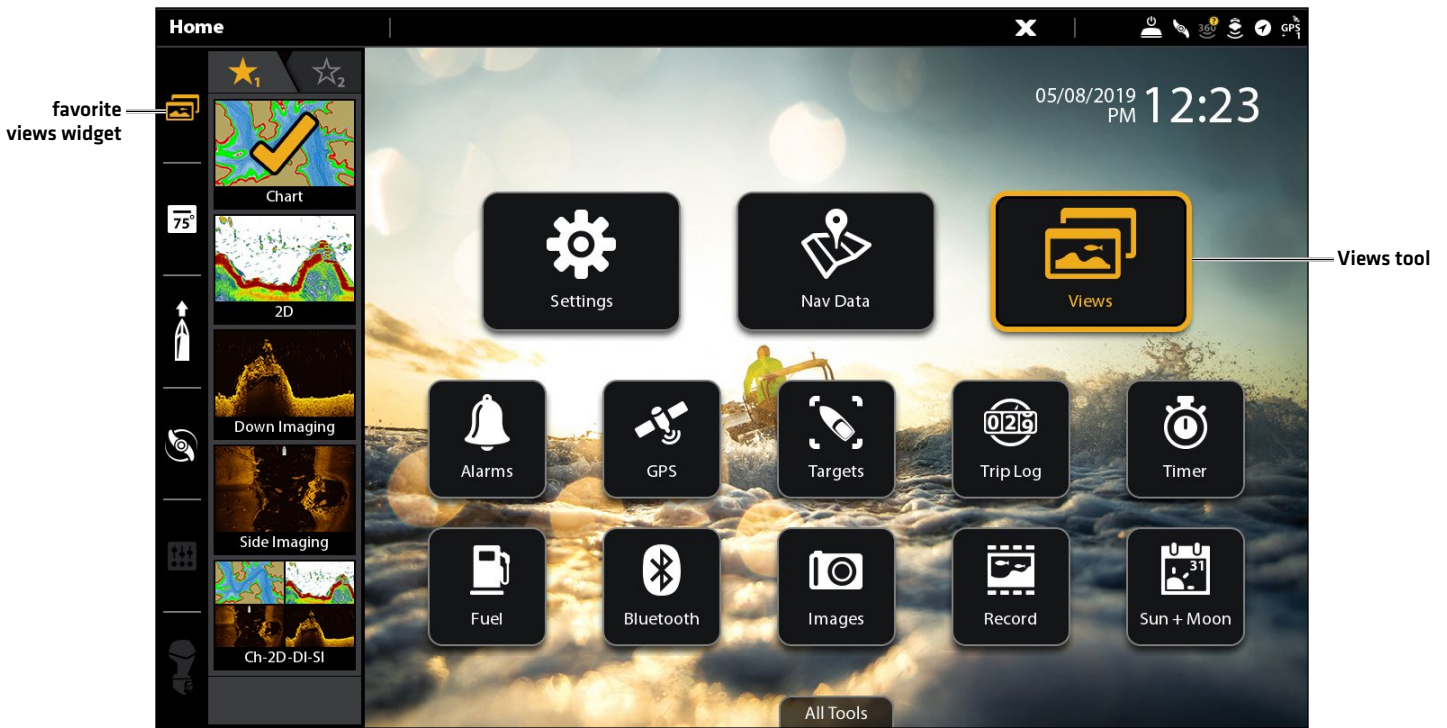
### Keypad

1. Press the HOME key.
2. Use the Joystick to select the Views tool and press the ENTER key to display it on-screen.

## Selecting the Chart View (APEX)

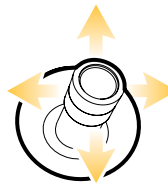


## Selecting the Chart View (SOLIX)



Tap to Open

OR



Select



Open

## Open the Trolling Motor Virtual Remote

Navigation modes can be started from the trolling motor virtual remote or the Go To menu. The trolling motor virtual remote can be accessed from any view. This section is an overview. Each navigation mode is detailed throughout this manual. See **Propeller Controls** for more information.

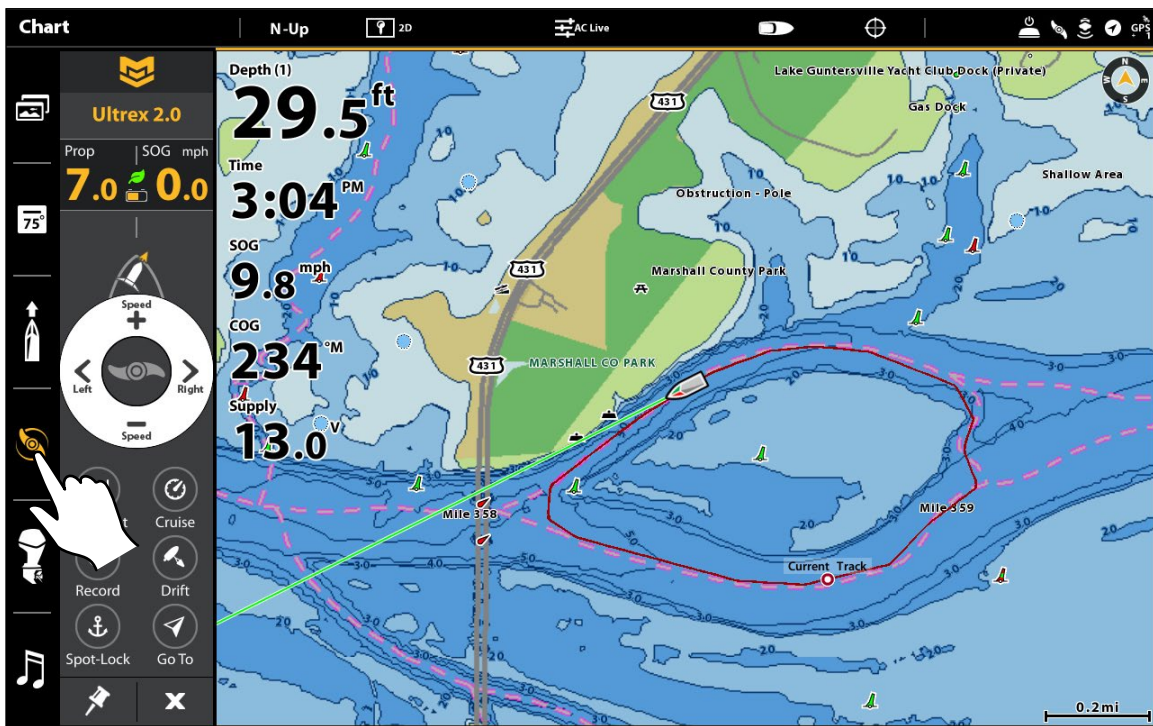
### Touch Screen

1. Tap the trolling motor icon in the side bar.

### Keypad

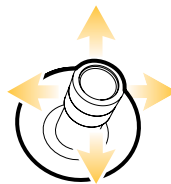
1. With a view displayed on-screen, press the PANE key once. In a multi-pane view, press the PANE key repeatedly until the menu displays.
2. Use the Joystick to select the trolling motor icon in the side bar and press the ENTER key.

### Opening the Trolling Motor Virtual Remote



Tap to Open

OR

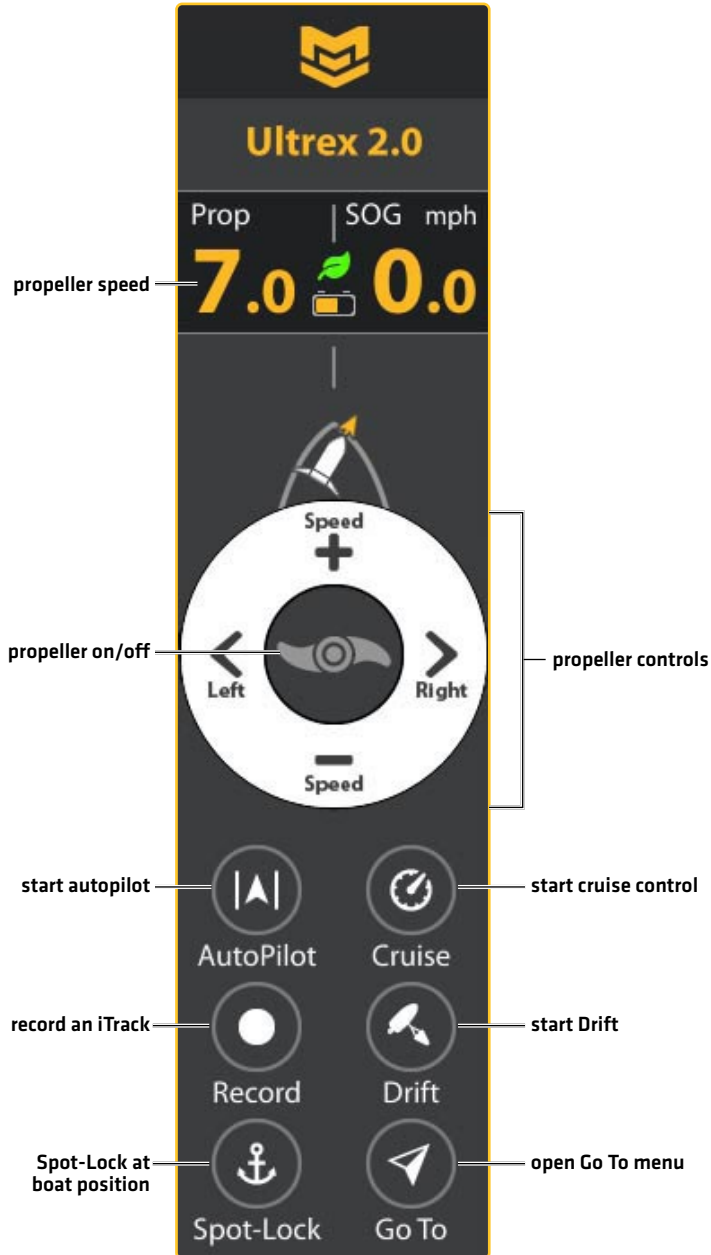


Select



Open

# Trolling Motor Virtual Remote





## Go To Menu Overview

The **Go To** menu starts navigation to the item you select. You can also cancel navigation from this menu. The Go To menu can be opened from the status bar, the GO TO key, or the trolling motor virtual remote.

### Open the Go To Menu from the Status Bar

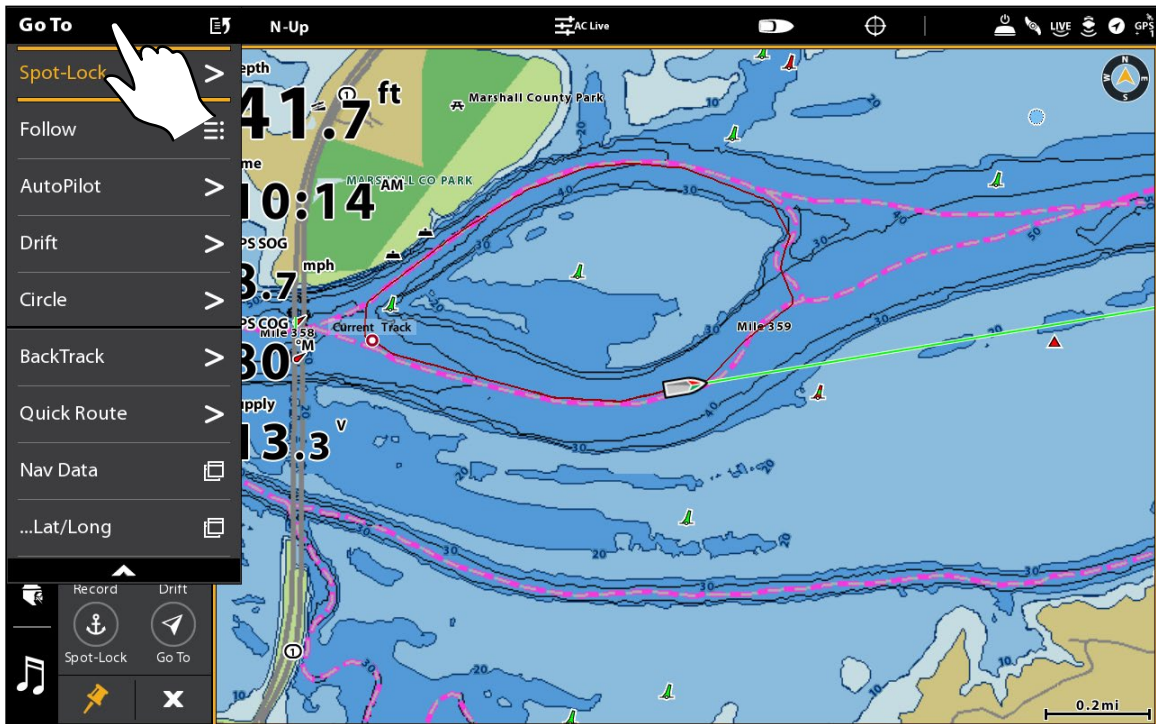
#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.

#### Keypad

1. Press the GO TO key.

### Opening the Go To Menu



Tap to Open

OR



Open

## Open the Go To Menu from the Trolling Motor Virtual Remote

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Go To button.

### Keypad

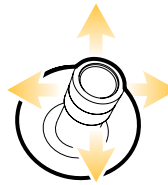
1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Go To button. Press the CHECK/ENTER key.

### Opening the Go To Menu from the Virtual Remote



Tap to Open  
the Go To Menu

OR



Select the  
Go To Button



Open

## Mark Menu Overview

Use the **Mark** menu to save a waypoint, save a Spot-Lock, or record an iTrack. This section is an overview. Each navigation mode is detailed throughout this manual.

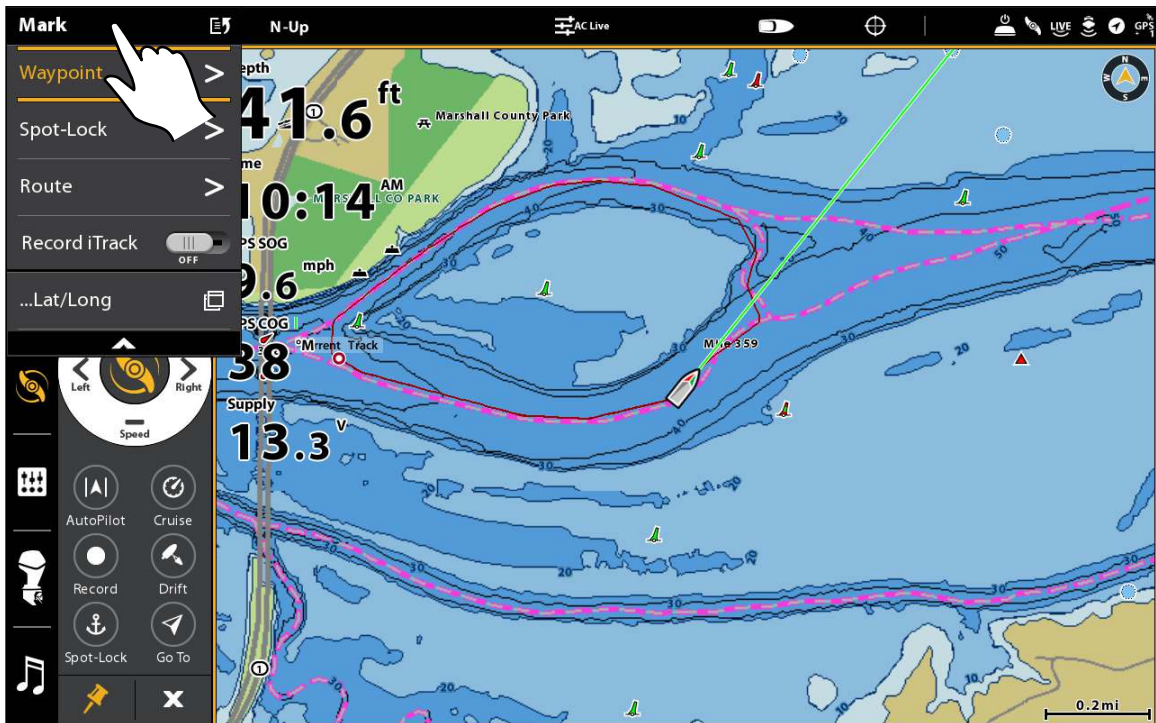
### Touch Screen

1. Tap Chart in the status bar.
2. Select Mark.

### Keypad

1. Press the MARK key.

### Opening the Mark Menu



Tap to Open

OR



Open

## 1 | Start Advanced GPS Navigation

When trolling motor is selected as the navigation source, the Advanced GPS Navigation system becomes the steering source for navigating points, routes, iTracks, and contour lines. See **Configure Advanced GPS Navigation with the Fish Finder: Enable Advanced GPS Navigation**.

The Navigation modes can be accessed from the virtual remote or the Go To menu. Also, you can open these menus from any view. Trolling motor icons are available in Chart View and Radar View.



**NOTE:** If the boat doesn't move when you start navigation, confirm the trolling motor propeller is turned on [see **Propeller Controls**].

1. Tap Chart in the status bar, or press the Go To key. Select Go To.

OR

Open the trolling motor virtual remote.

2. Select a navigation mode. This section is an overview. Each navigation mode is detailed throughout this manual.

Navigation Options	
Spot-Lock	Select Spot-Lock to create and start navigation to a temporary Spot-Lock position, either at the boat's position or the cursor position. If you select Spot-Lock while navigating a route, BackTrack, iTrack, or contour, navigation will be paused on the Spot-Lock. See the <b>Spot-Lock</b> section for more information.
Follow the Contour / Follow the Shoreline [Chart View only]	Select Follow the Contour to start navigating the selected contour line. Select Follow the Shoreline to start navigating the selected shoreline. See the <b>Follow the Contour/Shoreline</b> section for compatible Map Card information and details. This feature is available in the Chart View only.
Circle	Select Circle Mode to set a point to navigate around. You can select clockwise or counterclockwise. See the <b>Circle Mode</b> section for details.
AutoPilot	<p><b>If the cursor is inactive</b>, navigation begins in the direction of the boat's Course Over Ground [COG] setting. If COG is not available, the current Heading [Hdg] is used.</p> <p><b>If the cursor is active</b>, navigation begins in the direction of the cursor's position using bearing data from the active cursor.</p> <p>See the <b>AutoPilot</b> section for details.</p>
Drift	Select Drift Mode to keep the boat at a controlled target speed when following a desired straight-line course regardless of wind or current influence. See the <b>Drift Mode</b> section for details.
BackTrack	Select BackTrack to start navigating back through the Current Track, starting with the last recorded track point. The Current Track will be converted to a saved iTrack. While navigating BackTrack, the direction of navigation can be changed using the Reverse menu option. See the <b>BackTrack</b> section for details.
Nav Data	Select Nav Data to start navigation to a saved waypoint, route, Spot-Lock, iTrack, etc. See <b>Manage Your Advanced GPS Navigation Data</b> for details.

## 2 | Cancel Advanced GPS Navigation

When Advanced GPS navigation is in progress, whether with an iTrack, Spot-Lock, route, etc., you can cancel navigation at any time using the following instructions.



**WARNING!** When you cancel Advanced GPS Navigation, be prepared to take manual control of the boat.

### Cancel Navigation (Go To Menu)

1. Tap Chart in the status bar to open the Navigation X-Press menu. Tap Go To.

**OR**

Press the GO TO key.

2. Select Cancel Navigation.
3. Tap, or press the ENTER key, to cancel navigation.



**NOTE:** Confirm the prop is turned off.

### Cancel Navigation (Trolling Motor Virtual Remote)

1. Open the trolling motor virtual remote.
2. Tap the active [yellow] button to turn it off. [Gray = Off]



**NOTE:** Confirm the prop is turned off.

## Find the Nearest Advanced GPS Navigation Data

Use the **Find Nearest** menu to search for the closest Spot-Locks and iTracks, in addition to the closest waypoints, routes, and tracks. From the search results, you can view more information or start navigation. Before proceeding, confirm the cursor is not active.

### Find the Nearest Spot-Locks and iTracks

#### Touch Screen

1. Press and hold a position on the chart.
2. Select Find Nearest.
3. Select Spot-Locks or iTracks.
4. Select a Spot-Lock or iTrack name from the displayed list.
5. **View Information:** Tap the Spot-Lock or iTrack name to see more information if it is available.

**Start Navigation:** To start navigation to the selected Spot-Lock or iTrack, press the GO TO key. Select Go To. Then, turn on the trolling motor prop.

**Display in Chart View:** To display the selected Spot-Lock or iTrack in Chart View, press the GO TO key. Select Cursor To.

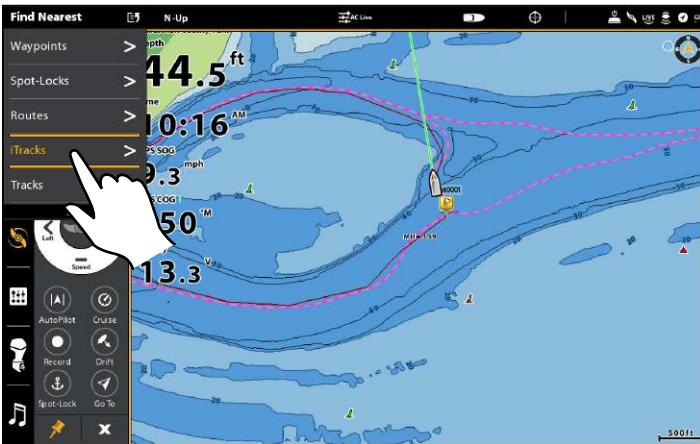
#### Keypad

1. Press the ENTER key.
2. Use the Joystick to select Find Nearest. Press the ENTER key.
3. Select Spot-Locks or iTracks. Press the ENTER key.
4. Select a Spot-Lock or iTrack name from the displayed list.
5. **View Information:** Select the Spot-Lock or iTrack name and press the ENTER key to see more information if it is available.

**Start Navigation:** To start navigation to the selected Spot-Lock or iTrack, press the GO TO key. Select Go To and press the ENTER key. Then, turn on the trolling motor prop.

**Display in Chart View:** To display the selected Spot-Lock or iTrack in Chart View, press the GO TO key. Select Cursor To.

#### Selecting iTracks from the Find Nearest Menu



#### Starting Navigation to the Selected iTrack

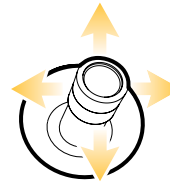


Press and Hold to Open Cursor Menu  
Tap to Open and Select

OR



Open Cursor Menu




Select




Open and Confirm

A manual function is where the operator takes full control of the function, such as manually steering the motor or adjusting the propeller speed.

The propeller can be controlled from the trolling motor virtual remote. You can steer, increase or decrease speed, and start Cruise Control from the remote.

 **WARNING!** If you use the trolling motor virtual remote to steer, you are taking manual control, and the current navigation mode will be canceled [with the exception of recording an iTrack].

 **WARNING!** Watch for a turning propeller and be prepared for boat movement when working with each Advanced GPS Navigation mode. The propeller will automatically turn on when Advanced GPS Navigation modes are engaged, even if the engagement is accidental. A turning propeller can cause injury.

## Propeller Icon



**Trolling Motor Propeller On** - When the trolling motor propeller is turned on, it is ready to be used for Advanced GPS Navigation. Icons will display in the Advanced GPS Navigation data bar indicating the current status of the trolling motor prop [on, on and rotating, off]. See *Display the Advanced GPS Navigation Data Bar*.

You will have to manually turn on the trolling motor prop to start Advanced GPS Navigation; except when starting navigation to a Spot-Lock from the Go To menu, in which case the propeller will automatically turn on to start navigation.



**Trolling Motor Propeller On and Rotating** - The trolling motor propeller is currently being used for Advanced GPS Navigation.



**Trolling Motor Propeller Off** - If you selected Prop Off for the Arrival Mode, the trolling motor propeller will automatically turn off after the destination has been reached during Advanced GPS Navigation. See *Configure Advanced GPS Navigation with the Fish Finder: Set the Arrival Mode*.

You will have to manually turn off the trolling motor prop when canceling AutoPilot navigation.

## Start or Stop the Propeller

The propeller must be started to start navigation with the Advanced GPS system. You can start the propeller manually each time you start Advanced GPS Navigation, or you can set the propeller to turn on automatically when Advanced GPS Navigation is initiated [see *Configure Advanced GPS Navigation with the Fish Finder: Turn on/off Prop Auto-On*].

 **WARNING!** Spot-Locks and Cruise Control will turn on the propeller as soon as they are engaged, regardless of the Prop Auto-On setting.

## Start or Stop the Propeller

Use the following instructions to start/stop the propeller manually using the trolling motor virtual remote on the fish finder.

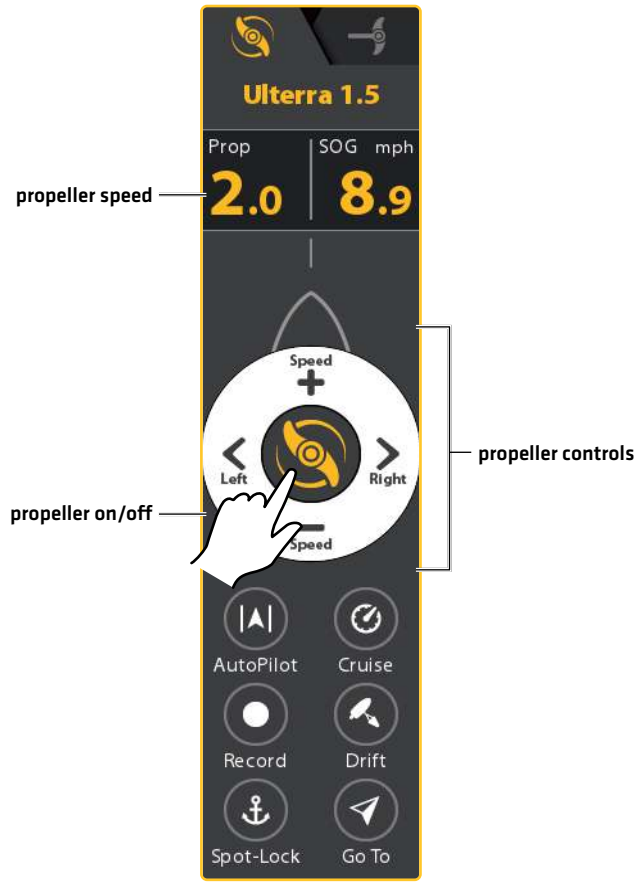
### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the propeller button.  
Yellow = On, Gray = Off.

### Keypad

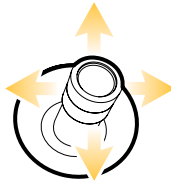
1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the propeller button. Press the CHECK/ENTER key.  
Yellow = On, Gray = Off.

## Starting the Propeller



Tap to Turn On/Off

OR



Select the Prop Button



Turn On/Off



Use the following instructions to steer manually using the trolling motor virtual remote on the fish finder.

**⚠ WARNING!** When you use the trolling motor virtual remote to steer, you are taking manual control of the trolling motor, and the current navigation mode will be canceled [with the exception of recording an iTrack].

## Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the left or right arrows.

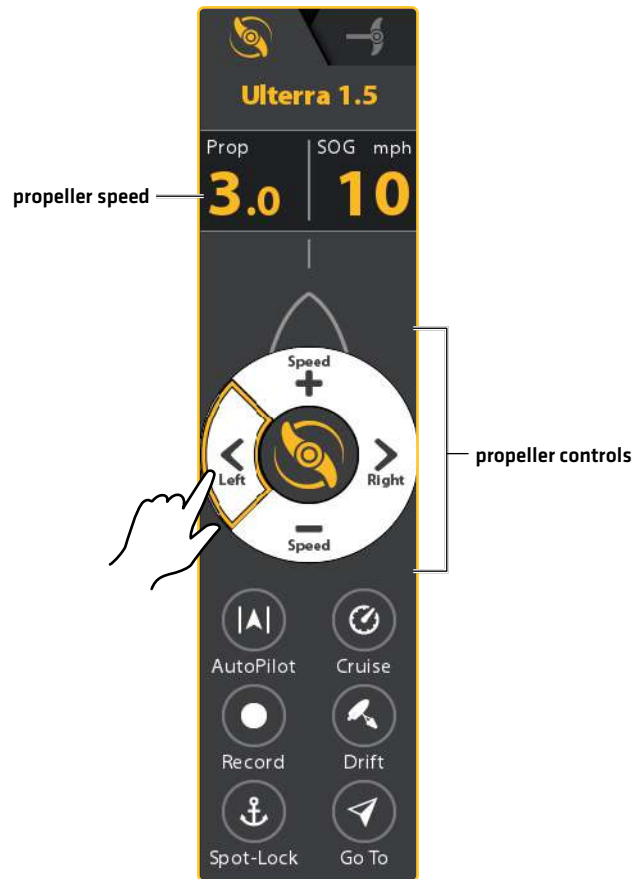
## Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Turn the Rotary dial.

OR

Select a right or left arrow. Press the ENTER key.

### Steering with the Trolling Motor Virtual Remote



Tap the Arrows to Steer

OR



Turn to Steer

## Increase or Decrease Speed

Use the following instructions to adjust the trolling motor speed manually using the trolling motor virtual remote on the fish finder. When the Steer/Prop menu is selected, you can use the +/- ZOOM keys to adjust the speed.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the top, right corner of the status bar. Tap the remote.
2. **To increase the propeller speed,** tap the + [PLUS] button.  
**To decrease the propeller speed,** tap the - [MINUS] button.

### Keypad

1. **Open the trolling motor virtual remote:** Press the POWER key. Select the remote.
2. **To increase the propeller speed,** press the + [ZOOM IN] key.  
**To decrease the propeller speed,** tap the - [MINUS] [ZOOM Out] key.

### Increasing or Decreasing Speed with the Trolling Motor Virtual Remote



Tap the +/- Buttons to Increase/Decrease Speed

OR



Increase Speed



Decrease Speed

## Engage Max Speed

Use Max Speed to automatically set the propeller speed to 10.



**WARNING!** Watch for a turning propeller and be prepared for boat movement when working with Max Speed. Max Speed will automatically increase the propeller speed to 10 even if the engagement is accidental. A turning propeller can cause injury.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Press and hold the + button.

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Press and hold the + [ZOOM IN] key.

## Disengage Max Speed

To exit Max Speed, decrease the propeller speed.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Press and hold the + button.

**OR**

Tap the - button repeatedly to decrease speed.

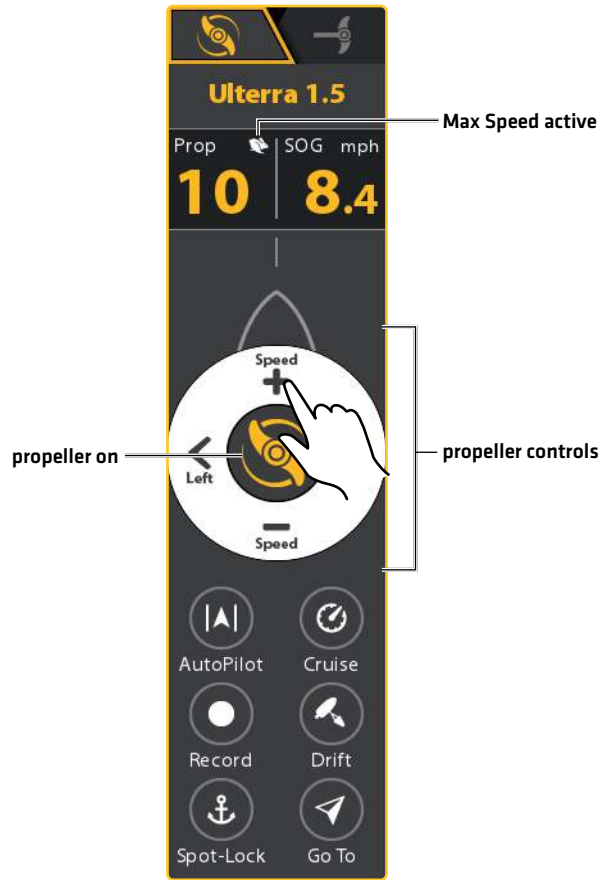
### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Press and hold the + [ZOOM IN] key.

**OR**

Press the - [ZOOM OUT] key repeatedly to decrease speed.

## Engaging Max Speed



Tap and hold the + Button  
to engage Max Speed

OR



Increase Speed

# CRUISE CONTROL

---

Cruise Control helps to compensate for the variations in external forces that affect the speed over ground and keeps the boat traveling at an even speed. When Cruise Control is engaged, the current speed over ground becomes the Target Speed. Cruise Control works to control the propeller speed to match the Speed Over Ground to the Target Speed.



**WARNING!** Watch for a turning propeller and be prepared for boat movement when working with Cruise Control. The propeller will automatically turn on when Cruise Control is engaged, even if the engagement is accidental. A turning propeller can cause injury. **The propeller will turn on for Cruise Control regardless of the Prop Auto-On setting.**

## Engage Cruise Control

---

Use Cruise Control to set the propeller to maintain a target speed.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Cruise button.
3. **To increase the target propeller speed,** tap the + [PLUS] button.

**To decrease the target propeller speed,** tap the - [MINUS] button.

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Cruise button.
3. **To increase the propeller speed,** press the + [ZOOM IN] key.

**To decrease the propeller speed,** tap the - [MINUS] [ZOOM OUT] key.

## Disengage Cruise Control

---

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Cruise button.
3. To cancel navigation, tap the propeller button. [off = gray].

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Cruise button.
3. Press the ENTER key or press the Joystick.
4. To cancel navigation, select the propeller button. Press the CHECK key to turn it off. [off = gray].

## Adjusting the Cruise Control Speed



Tap the +/- Buttons to Increase/Decrease Speed

OR



Increase Speed



Decrease Speed

# SPOT-LOCKS

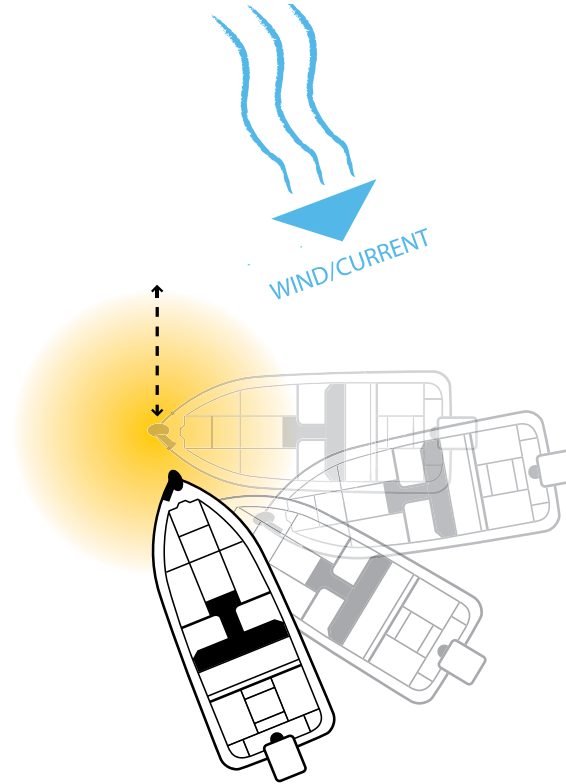


**Spot-Lock** uses a single point as a reference for the spot you want to stay on. Around the Spot-Lock location, Advanced GPS uses an arrival circle to determine prop speed and direction. If Advanced GPS sees it is within the circle, it will adjust the motor speed to zero. If Advanced GPS sees it is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

**Spot-Lock is based on the location of the motor**, not the location or direction of the boat. Outside forces such as wind and current will cause the boat to move. Spot-Lock will navigate to maintain the motor on the Spot-Lock location regardless of the position of the boat.



**WARNING!** Watch for a turning propeller and be prepared for boat movement when working with Spot-Locks. The propeller will automatically turn on when a Spot-Lock is engaged, even if the engagement is accidental. A turning propeller can cause injury. **The propeller will turn on for Spot-Locks regardless of the Prop Auto-On setting.**



**Storage:** You can save a combination of up to 4,500 Spot-Locks and waypoints on your Humminbird fish finder, or up to 16 on the trolling motor when operating without the Humminbird fish finder. Spot-Locks are saved with an alphanumeric name that can be edited on the Humminbird fish finder through the Nav Data tool or from the Go To menu [while in the Chart View]. You can also change a saved waypoint to a Spot-Lock.



**NOTE:** Link differentiates between a Spot-Lock and a waypoint only by its icon. Any waypoint can be converted to a Spot-Lock by changing its icon to the Spot-Lock icon [see **Manage your Advanced GPS Navigation Data**].

## Mark and Save a Spot-Lock

Use the following instructions to mark a Spot-Lock at the boat position. The Spot-Lock will be saved, but navigation will not start. The Spot-Lock is saved to the Nav Data Tool. You can edit the name, etc. See **Edit Saved Spot-Locks** for more information.

### Mark a Spot-Lock at the Boat Position

Before proceeding, confirm the cursor is not active. To start navigation, see **Start Spot-Lock Navigation**.

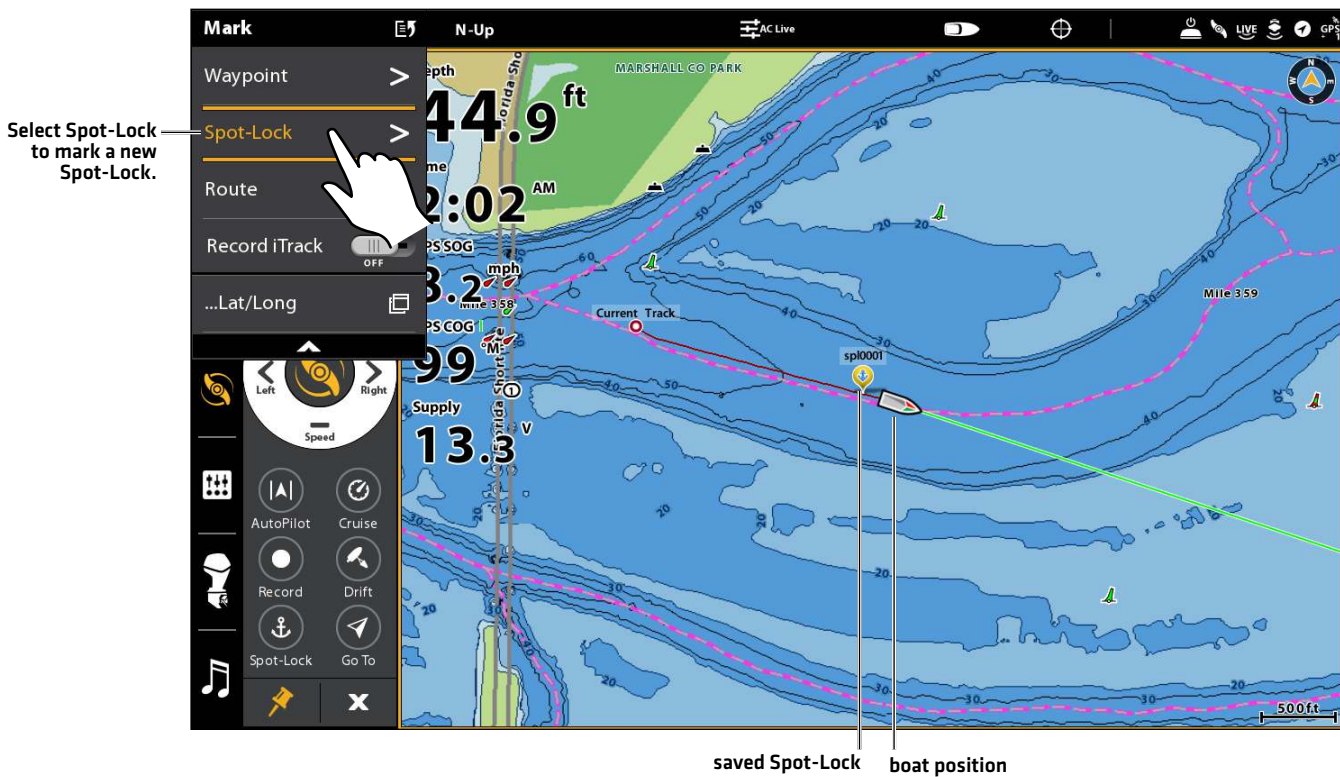
#### Touch Screen

1. Tap Chart in the status bar.
2. Select Mark.
3. Select Spot-Lock.

#### Keypad

1. Press the MARK key.
2. Use the Joystick to select Spot-Lock.
3. Press the ENTER key.

Marking a Spot-Lock at the Boat Position from the Mark Menu

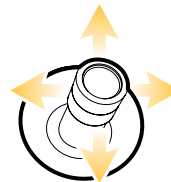


Tap to Open Menus  
Tap to Select

OR



Open Menu



Select



Confirm



## Mark a Spot-Lock at the Cursor Position

You can use the cursor to mark a Spot-Lock location. To start navigation, see [Start Spot-Lock Navigation](#).

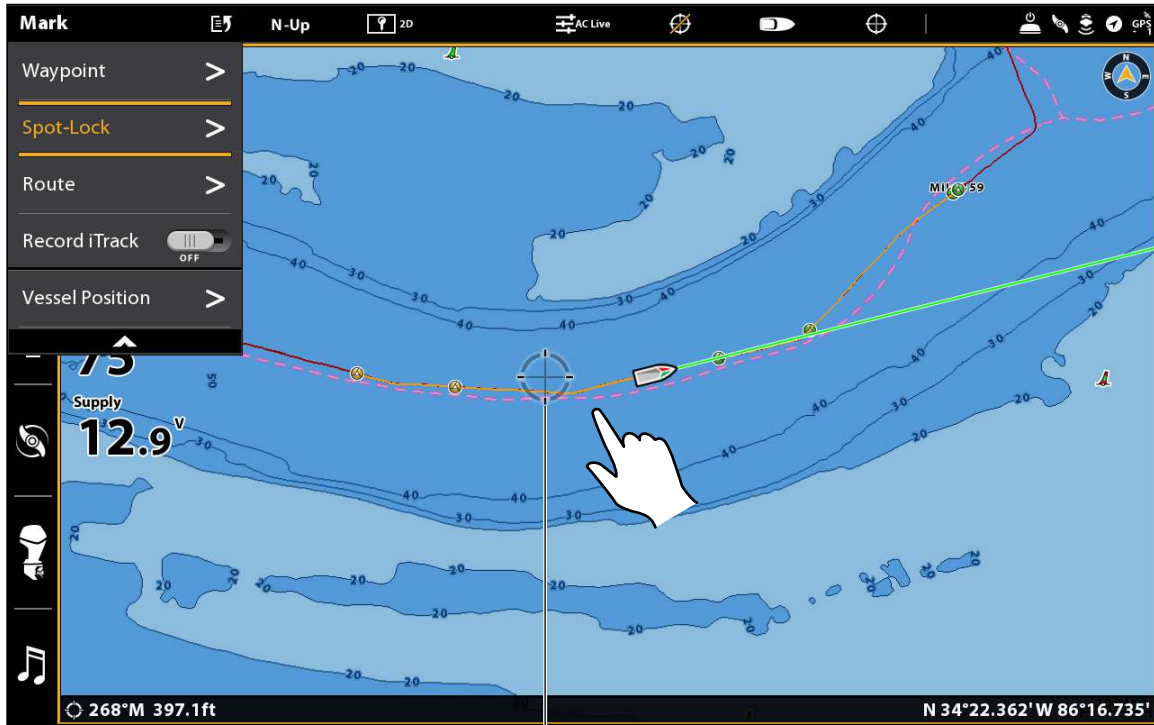
### Touch Screen

1. Tap a position on the chart to activate the cursor.
2. Tap Chart in the status bar.
3. Select Mark.
4. Select Spot-Lock.

### Keypad

1. Use the Joystick to move the cursor to a position on the chart.
2. Press the MARK key.
3. Use the Joystick to select Spot-Lock.
4. Press the ENTER key.

### Creating a Spot-Lock at the Cursor Position

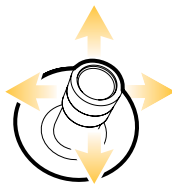


active cursor position



Tap to Activate the Cursor  
Tap to Select

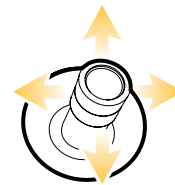
OR



Move the Joystick to  
Activate the Cursor



Open Menu



Select



Confirm

## Convert a Waypoint to a Spot-Lock in Chart View

You can convert a saved waypoint to a Spot-Lock using the instructions below. You can also convert a saved waypoint to a Spot-Lock in the Nav Data tool [see *Manage your Advanced GPS Navigation Data*].

When the waypoint is converted to a Spot-Lock, the following menu options are disabled: icon editing, waypoint avoidance, and depth marker.

### Touch Screen

1. Tap the waypoint icon to select it.
2. Tap the Waypoint Name.
3. From the Waypoint Info menu, tap the Spot-Lock on/off button to turn Spot-Lock ON.

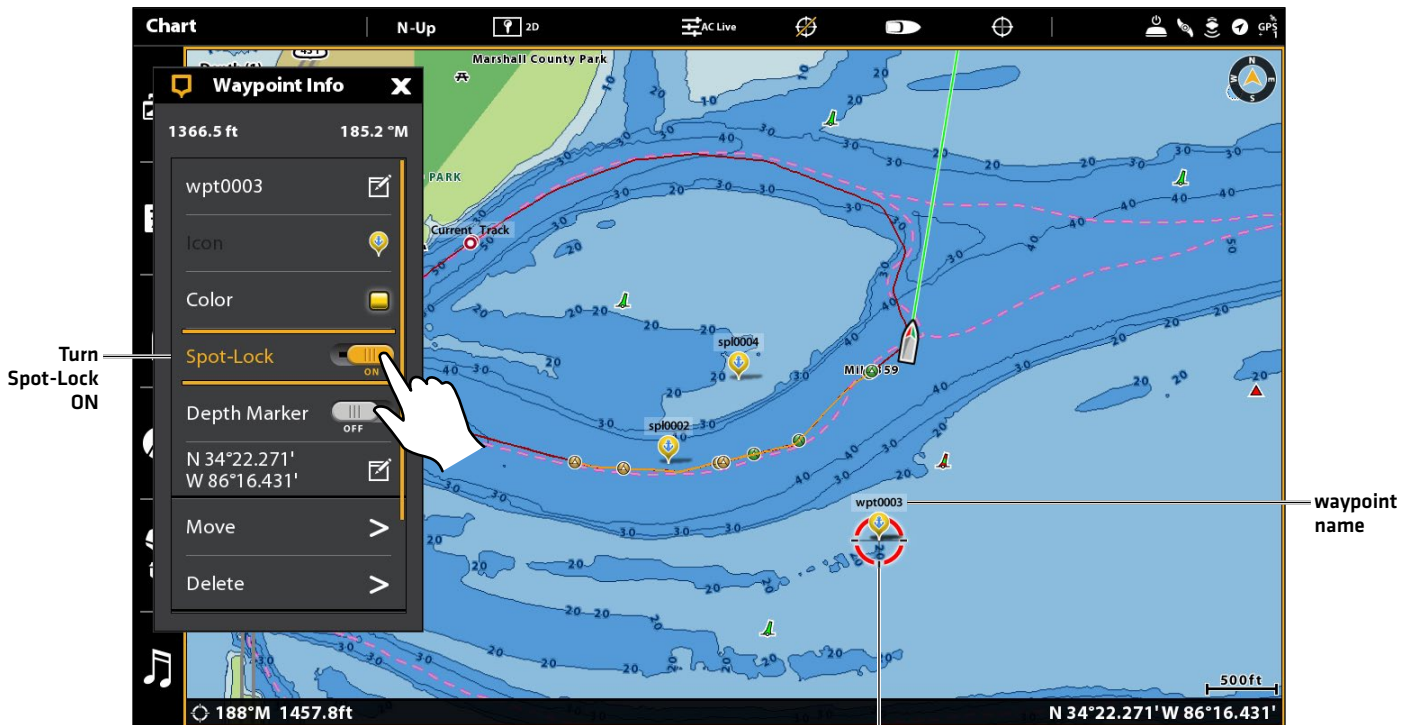
If you start navigation to the Spot-Lock, Spot-Lock will start automatically when the boat arrives.

### Keypad

1. Use the Joystick to move the cursor to the waypoint icon.
2. Press the ENTER key.
3. From the Waypoint Info menu, select Spot-Lock.
4. Press the ENTER key to turn Spot-Lock ON.

If you start navigation to the Spot-Lock, Spot-Lock will start automatically when the boat arrives.

### Engaging Spot-Lock at a Waypoint Position

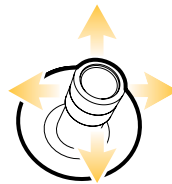


When Spot-Lock is turned On, the waypoint icon changes to a Spot-Lock icon.



Tap to Select

OR



Select



Open

## Start Spot-Lock Navigation

You can quickly Spot-Lock at the current boat position or the cursor position, and start navigation towards it automatically. 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. To save a Spot-Lock, see **Mark and Save a Spot-Lock**.



**CAUTION!** 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. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

### Engage Spot-Lock at the Boat Position

You can Spot-Lock at the current boat position using the Go To menu or the trolling motor virtual remote. Before proceeding, confirm the cursor is not active.

### Engage Spot-Lock at the Boat Position (Go To Menu)

---

Use the following instructions to engage a Spot-Lock at the boat position using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Spot-Lock.

Navigation will start automatically.

**Cancel Navigation/Disengage Spot-Lock:** Tap Chart in the status bar. Select Go To > Cancel Navigation. Canceling navigation will delete the Spot-Lock.

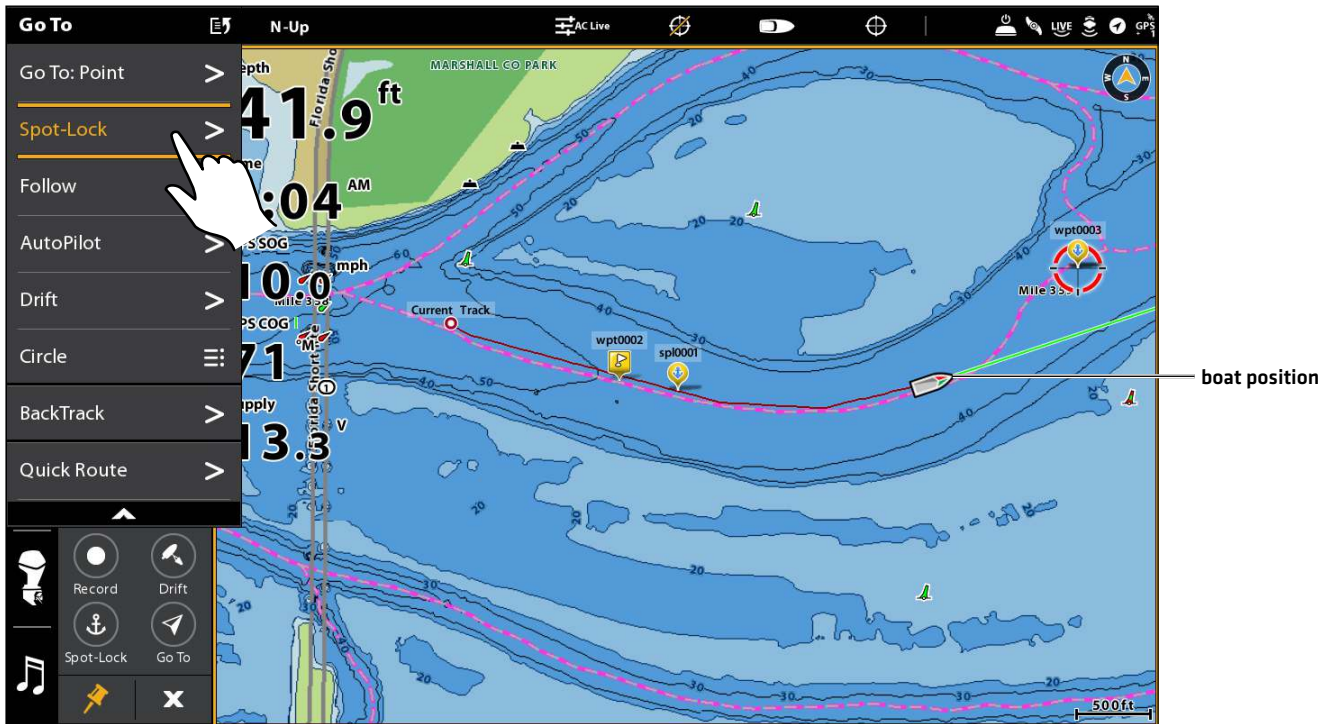
#### Keypad

1. Press the GO TO key.
2. Select Spot-Lock.
3. Press the ENTER key.

Navigation will start automatically.

**Cancel Navigation/Disengage Spot-Lock:** Press the GO TO key. Select Cancel Navigation. Canceling navigation will delete the Spot-Lock.

## Engaging Spot-Lock at the Boat Position (Go To Menu)

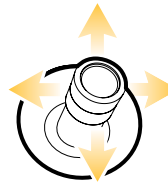


Tap to Open Go To Menu  
Tap to Select

OR



Go To



Select



Confirm

## Engage Spot-Lock at the Boat Position (Trolling Motor Virtual Remote)

Use the following instructions to engage a Spot-Lock at the boat position using the trolling motor virtual remote.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Spot-Lock button to turn Spot-Lock ON.

Yellow = On, Gray = Off

**Cancel Navigation/Disengage Spot-Lock:** Tap the Spot-Lock button.

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Spot-Lock button.
3. Press the ENTER key to turn Spot-Lock ON.

Yellow = On, Gray = Off

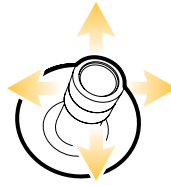
**Cancel Navigation/Disengage Spot-Lock:** Select the Spot-Lock button. Press the ENTER key.

## Engaging a Spot-Lock at the Boat Position



Tap to Turn On/Off

OR



Select Spot-Lock



Turn On/Off

# Engaging Spot-Lock from the Trolling Motor Virtual Remote

The screenshot displays a boat's virtual remote interface. The top bar shows 'Chart', 'N-Up', and 'AC Live'. The main display area is a chart with depth contours and a boat icon. A data panel on the left shows: Depth 43.4 ft, Time 2:05 AM, Prop 0.0, SOG mph 9.1, Bearing 0, Distance, GPS SOG 9.1 mph, GPS COG 51, Supply 13.3, and a temperature of 75. A virtual remote control is overlaid on the chart, featuring a central joystick and various function buttons. Three annotations with arrows point to specific elements: 'propeller on' points to the propeller icon, 'Spot-Lock name' points to the 'Spot-Lock' button, and 'Spot-Lock on' points to the 'Spot-Lock on' button. The chart includes a 500ft scale bar and a compass rose.

Parameter	Value
Depth	43.4 ft
Time	2:05 AM
Prop	0.0
SOG mph	9.1
Bearing	0
Distance	
GPS SOG	9.1 mph
GPS COG	51
Supply	13.3
Temp	75

## Engage Spot-Lock at the Cursor Position

Use the following instructions to start Spot-Lock navigation at the cursor position from the Go To menu. Engaging a Spot-Lock at the cursor position is not available on the trolling motor virtual remote.

**CAUTION!** 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. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

### Touch Screen

1. Press and hold a position on the chart.
2. Select Go To.
3. Select Spot-Lock.

Navigation will start automatically.

**Cancel Navigation/Disengage Spot-Lock:** Tap Chart in the status bar. Select Go To > Cancel Navigation. Canceling navigation will delete the Spot-Lock.

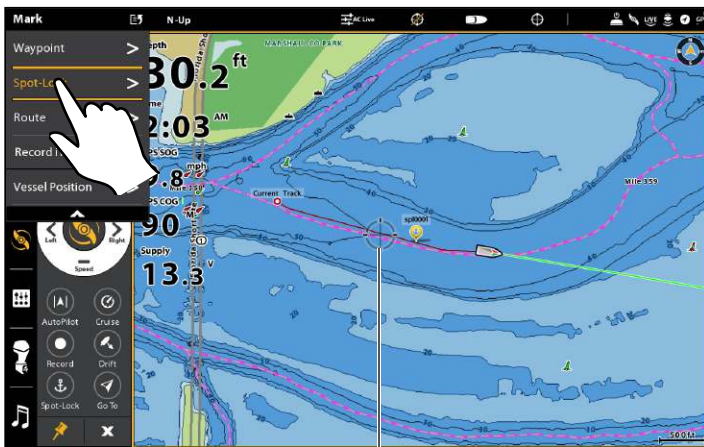
### Keypad

1. Use the Joystick to select a position on the chart.
2. Press the GO TO key.
3. Select Spot-Lock.
4. Press the ENTER key.

Navigation will start automatically.

**Cancel Navigation/Disengage Spot-Lock:** Press the GO TO key. Select Cancel Navigation. Canceling navigation will delete the Spot-Lock.

### Using the Joystick to Select the Spot-Lock Position



cursor

### Navigating to the Spot-Lock



Spot-Lock name

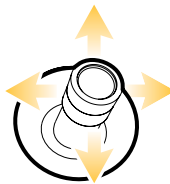
end point

start point



Press and Hold  
Tap to Select

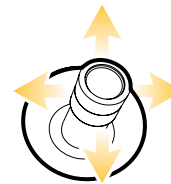
OR



Select



Go To



Select



Confirm

## Navigate to a Saved Spot-Lock

If a saved Spot-Lock is within 1/4 mile of the boat position, you can start navigation towards it. Spot-Lock will engage automatically when the boat reaches the destination Spot-Lock.

**CAUTION!** 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. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

### Select a Saved Spot-Lock in Chart View

#### Touch Screen

1. Tap a Spot-Lock icon on the chart.
2. Tap Chart in the status bar.
3. Select Go To.
4. Select Spot-Lock.

Navigation will start automatically.

**Cancel Navigation/Disengage Spot-Lock:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

#### Keypad

1. Use the Joystick to select a Spot-Lock icon on the chart.
2. Press the GO TO key.
3. Select Spot-Lock.
4. Press the ENTER key.

Navigation will start automatically.

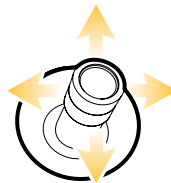
**Cancel Navigation/Disengage Spot-Lock:** Press the GO TO key. Select Cancel Navigation.

### Selecting a Saved Spot-Lock in Chart View



Tap to Select

OR



Select



Go To



## Resume Advanced GPS Navigation [Spot-Lock Pause]

If the Advanced GPS is navigating a route, BackTrack, iTrack, or contour, and you engage a Spot-Lock, Advanced GPS Navigation will be paused. Use the following instructions to resume navigation.

### Resume Navigation (Go To Menu)

#### Touch Screen

1. During Spot-Lock Pause, tap Chart in the status bar.
2. Select Go To.
3. Select Resume.

Turn on the trolling motor prop.

#### Keypad

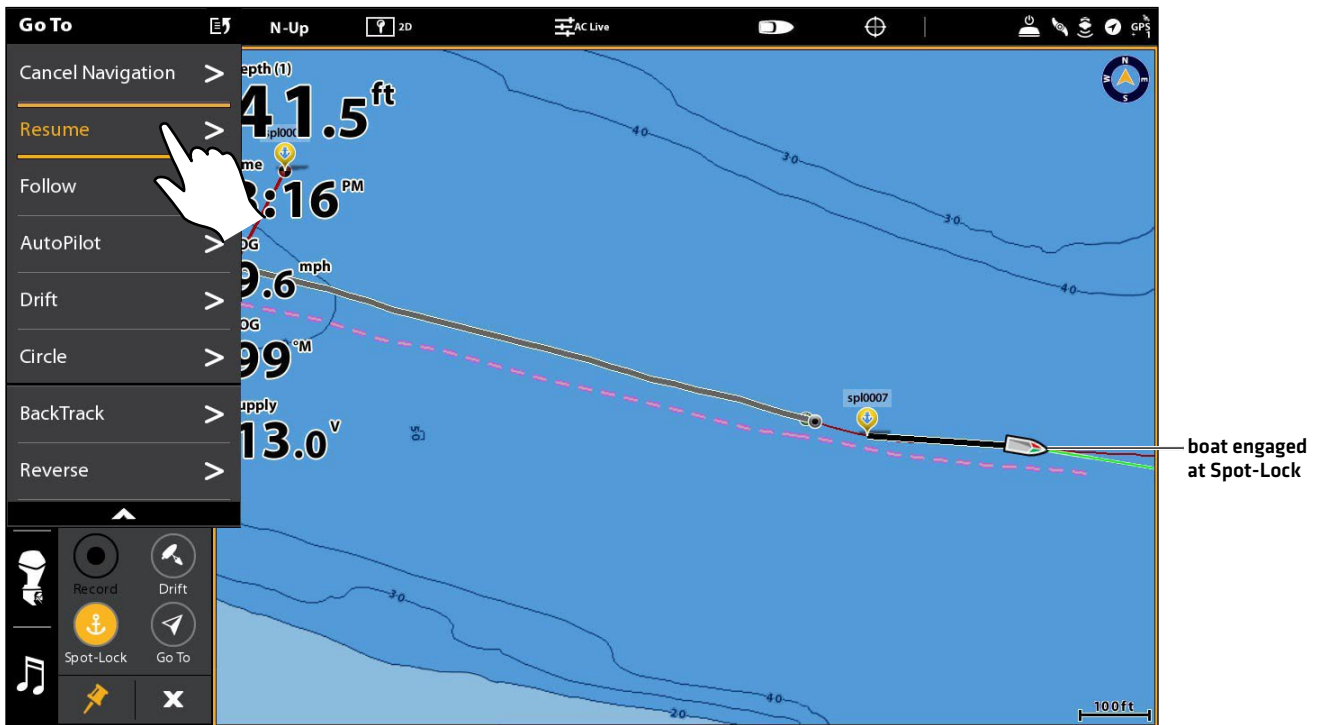
1. During Spot-Lock Pause, press the GO TO key.
2. Select Resume. Press the ENTER key.

Turn on the trolling motor prop.



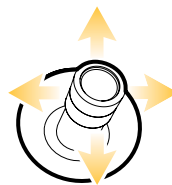
**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

### Resuming Navigation from a Spot-Lock Pause



Select

OR



Select



Confirm

## Resume Advanced GPS Navigation (Trolling Motor Virtual Remote)

When Advanced GPS Navigation is paused on a Spot-Lock, the button icon changes to indicate resuming navigation on the current route, BackTrack, iTrack, or contour.

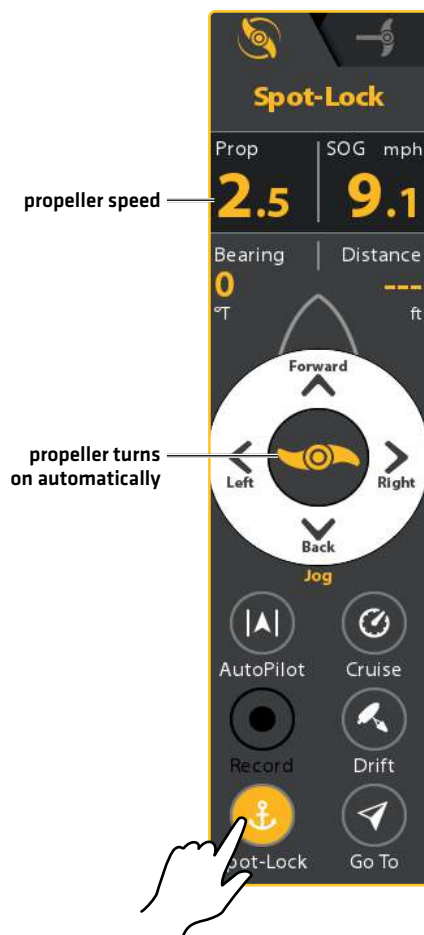
### Touch Screen

1. **During Spot-Lock Pause, open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Spot-Lock button.

### Keypad

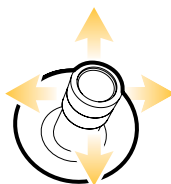
1. **During Spot-Lock Pause, open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Spot-Lock button. Press the CHECK/ENTER key.

### Resuming Navigation from a Spot-Lock Pause



Tap to Resume

OR



Select Spot-Lock



Resume

## Select a Saved Spot-Lock in the Nav Data Tool

Before proceeding, confirm the cursor is not active.

### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Nav Data.
4. Under Lists, select Spot-Locks.
5. Press and hold a Spot-Lock. Select Go To.
6. **Start Navigation:** Select Go To to start navigation to the selected Spot-Lock.

**Display in Chart View:** Select Cursor To to display the selected Spot-Lock in Chart View.

**Cancel Navigation/Disengage Spot-Lock:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Nav Data. Press the ENTER key.
3. Under Lists, select Spot-Locks. Press the ENTER key to display the list of Spot-Locks.
4. Use the Joystick to select a Spot-Lock.
5. Press the GO TO key.
6. **Start Navigation:** Select Go To and press the ENTER key to start navigation to the selected Spot-Lock.

**Display in Chart View:** Select Cursor To to display the selected Spot-Lock in Chart View. Press the ENTER key.

**Cancel Navigation/Disengage Spot-Lock:** Press the GO TO key. Select Cancel Navigation.

### Selecting a Saved Spot-Lock from the Nav Data Tool

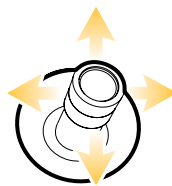
The screenshot shows the 'Nav Data' tool interface. On the left is a sidebar with 'Lists' (Waypoints: 8, Spot-Locks: 5, Routes: 0, Tracks: 1, iTracks: 1) and 'Options' (Waypoints, Routes, Tracks, Trolling Mot... ON, Groups). The main area is titled 'Spot-Locks' and contains a table with columns: Name, Group, Distance, and Date. The table lists five Spot-Locks (SL306, SL299, SL108, SL301, SL304). A hand icon points to the SL108 row. Below the table are fields for Position (N 34°11.992', W 83°59.508'), Bearing (61.6 °T), Depth, Cursor Depth, Radius, Temperature, and Altitude. A map shows the location of the selected Spot-Lock. A callout box on the right says 'Select a saved Spot-Lock and press the GO TO key.'

Name	Group	Distance	Date
SL306	My Data	13.5 mi	5/3/2019 12:40:38 PM
SL299	My Data	13.8 mi	5/2/2019 2:02:17 PM
SL108	My Data	13.9 mi	2/6/2019 1:21:28 PM
SL301	My Data	13.4 mi	5/2/2019 2:30:51 PM
SL304	My Data	13.4 mi	5/2/2019 2:41:35 PM



Tap and Hold to Open Go To Menu  
Tap to Select

OR



Select



Open the  
Go To Menu



Confirm

## Move a Spot-Lock (Heading Sensor Required)

You can move a saved Spot-Lock or an active Spot-Lock within 5 feet of its current position. Moving a Spot-Lock is only available with a heading sensor.



**CAUTION!** 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. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

### Move a Selected Spot-Lock

---

Use the following instructions to move a saved Spot-Lock on the Chart View.

#### Touch Screen

1. Tap a Spot-Lock icon on the chart.
2. Tap the Spot-Lock Name.
3. From the Waypoint Info menu, select Move.
4. Tap a position on the chart where you want to move the Spot-Lock to.
5. **Save:** Tap the check icon in the status bar to save the Spot-Lock at the new position.

**Cancel Move Spot-Lock:** Tap the X icon.

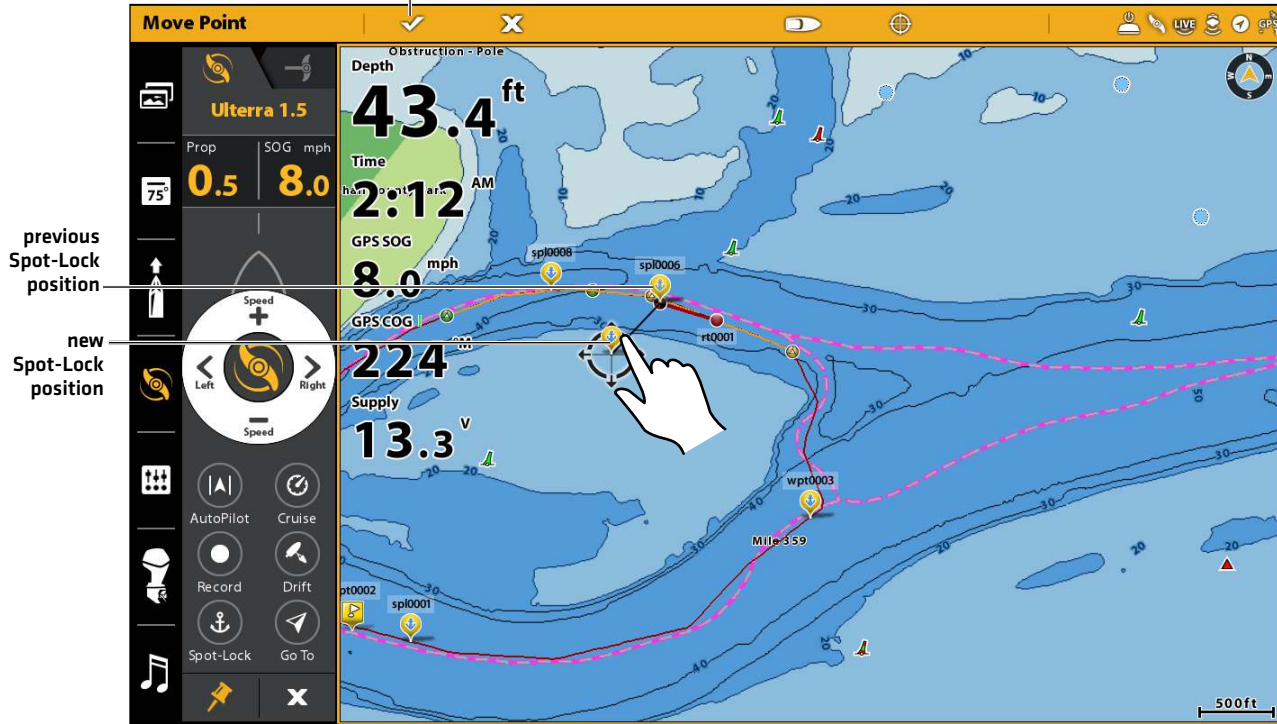
#### Keypad

1. Use the Joystick to move the cursor to a Spot-Lock icon on the chart.
2. Press the ENTER key.
3. From the Waypoint Info menu, select Move. Press the ENTER key.
4. Use the Joystick to move the Spot-Lock to a new position on the chart.
5. **Save:** Press the ENTER key to save the Spot-Lock at the new position.

**Cancel Move Spot-Lock:** Press the EXIT key.

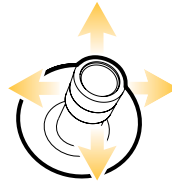
## Moving a Spot-Lock in Chart View

Tap the check icon in the status bar or press the ENTER key to save the Spot-Lock at the new position.



Tap to Select

OR



Move



Confirm

## Spot-Lock Jog (Trolling Motor Virtual Remote)

Use Jog while Spot-Lock is engaged to move 5 feet from the engaged Spot-Lock position. Spot-Lock Jog is only available with a heading sensor.

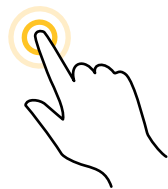
### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Spot-Lock button to turn Spot-Lock ON.
3. Tap the left, right, up, or down arrows to jog the Spot-Lock.

### Keypad

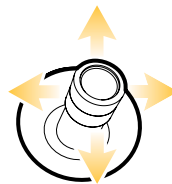
1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Spot-Lock button.
3. Press the ENTER key to turn Spot-Lock ON.
4. Select the left, right, up, or down arrows. Press the ENTER key to jog the Spot-Lock in the selected direction.

### Moving an Active Spot-Lock using the Trolling Motor Virtual Remote



Tap Arrows to Move

OR




Select an Arrow



Move

## Cancel Spot-Lock Navigation [Disengage]

You can disengage Spot-Lock navigation using the Cancel Navigation menu option or the trolling motor virtual remote. When you cancel Advanced GPS Navigation, be prepared to take manual control of the boat.

 **NOTE:** If you start another mode of Advanced GPS Navigation, the Spot-Lock will disengage automatically.

### Cancel Navigation (Go To Menu)

Use the following instructions to cancel navigation using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Cancel Navigation.

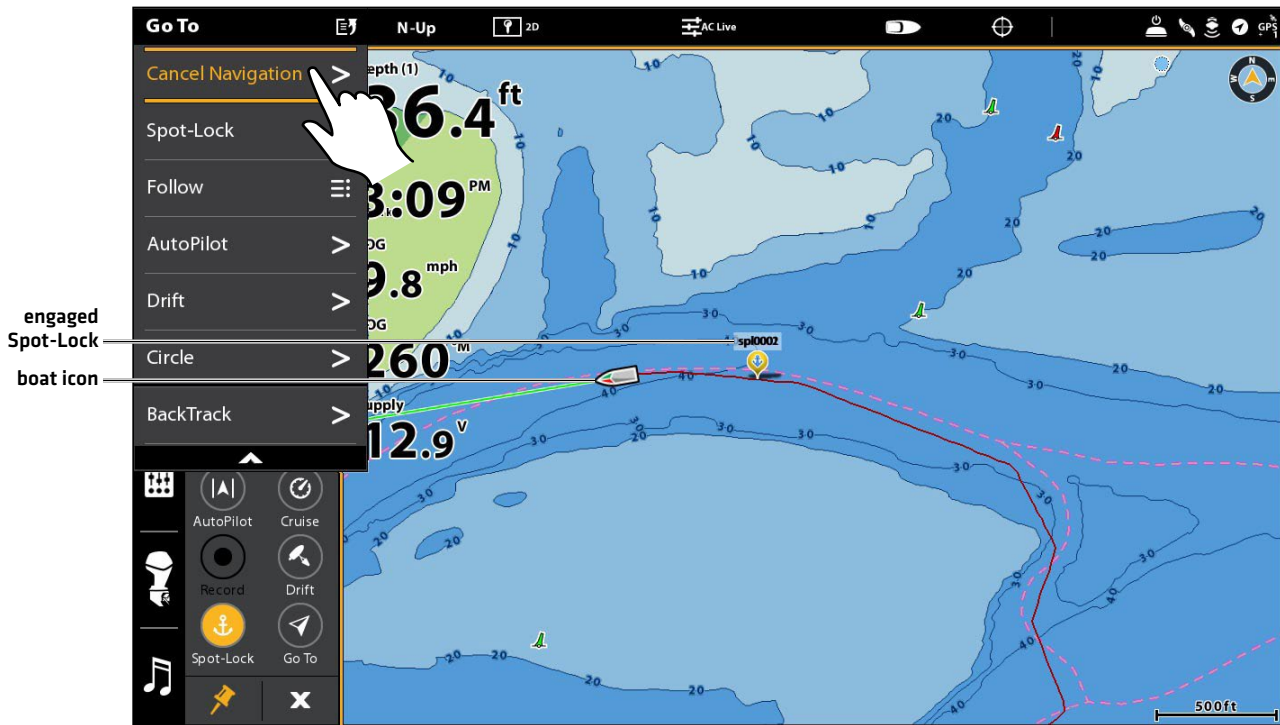
Be prepared to take manual control of the boat!

#### Keypad

1. Press the GO TO key.
2. Select Cancel Navigation.
3. Press the ENTER key.

Be prepared to take manual control of the boat!

#### Canceling Spot-Lock Navigation

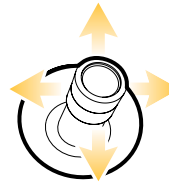


Tap to Open Go To Menu  
Tap to Select

OR



Open the  
Go To Menu



Select



Confirm

## Cancel Navigation (Trolling Motor Virtual Remote)

### Touch Screen

1. During Spot-Lock navigation, open the trolling motor virtual remote.
2. Tap the Spot-Lock button.

Yellow = On, Gray = Off

**Be prepared to take manual control of the boat!**

### Keypad

1. During Spot-Lock navigation, open the trolling motor virtual remote.
2. Select the Spot-Lock button.
3. Press the ENTER key to turn Spot-Lock off.

Yellow = On, Gray = Off

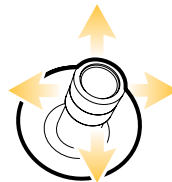
**Be prepared to take manual control of the boat!**

### Canceling Navigation (Disengage Spot-Lock)



Tap to Turn Off

OR



Select Spot-Lock



Turn Off



## Edit Saved Spot-Locks

When you save a Spot-Lock, it is saved with an alphanumeric name that starts with SPL. The name can be edited from the Waypoint Info menu in the Chart View or the Nav Data tool. The Spot-Lock icon cannot be changed unless you turn Spot-Lock off, which will convert the position to a waypoint.

### Edit a Saved Spot-Lock in Chart View

#### Touch Screen

1. Tap a Spot-Lock icon on the chart.
2. Tap the Spot-Lock Name.
3. From the Waypoint Info menu, select one of the menu options shown in the table below.

Tapping a menu option will open the selected menu option, display the on-screen keyboard, or change a setting to on or off.

#### Keypad

1. Use the Joystick to move the cursor to a Spot-Lock icon on the chart.
2. Press the ENTER key.
3. From the Waypoint Info menu, select one of the menu options shown in the table below.

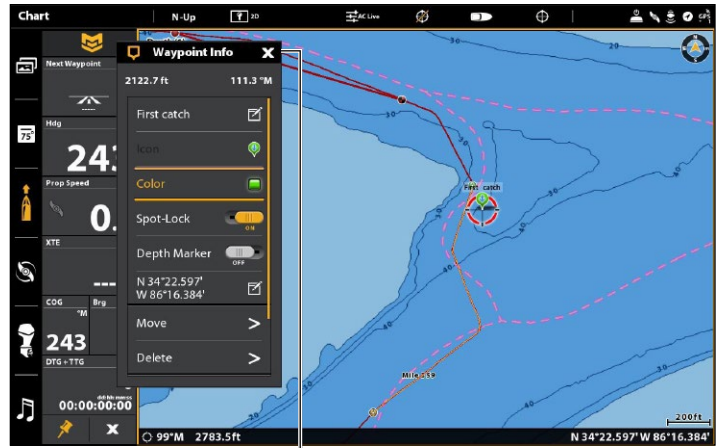
Press the ENTER key to open the selected menu option, display the on-screen keyboard, or change a setting to on or off.

Spot-Lock Editing Options	
<b>Spot-Lock Name</b>	Select the Spot-Lock name and use the on-screen keyboard to change it. After renaming the Spot-Lock, select Save.
<b>Color</b>	Select a color to represent the Spot-Lock.
<b>Spot-Lock</b>	To convert the Spot-Lock to a waypoint, turn off Spot-Lock.
<b>Depth Marker [waypoints only]</b>	If Depth Marker is turned on, the Spot-Lock will convert to a waypoint. The waypoint will be displayed as a depth marker on the Chart View. The depth is based on the depth at the vessel position. If the Spot-Lock was marked at the cursor position, the depth will not be saved.
<b>Latitude/Longitude</b>	Use the on-screen keyboard to edit the latitude/longitude position of the Spot-Lock or waypoint.
<b>Move</b>	Select Move to move the Spot-Lock to a new position on the Chart View. Use the cursor to move the Spot-Lock to the new position, and press the ENTER key to save it at the new position. See <b>Edit Saved Spot-Locks: Move a Spot-Lock</b> .
<b>Ruler</b>	Select Ruler to measure the distance between two positions on the chart. Press the ENTER key to select the measurement start point. Move the Joystick to the second selected position, and press the ENTER key to mark the measurement end point. The distance between the two points will be displayed in the lower left corner of the screen.
<b>Delete</b>	Select Delete to delete the Spot-Lock.
<b>Edit Notes [select Full Info]</b>	Open Edit Notes to use the on-screen keyboard to add notes about the Spot-Lock.

## Edit a Saved Spot-Lock in Chart View



Move the cursor to select the Spot-Lock in Chart View.

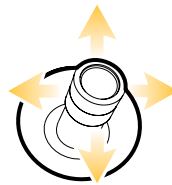


Use the Waypoint Info menu to edit the Spot-Lock.



Tap to Select and Open

OR



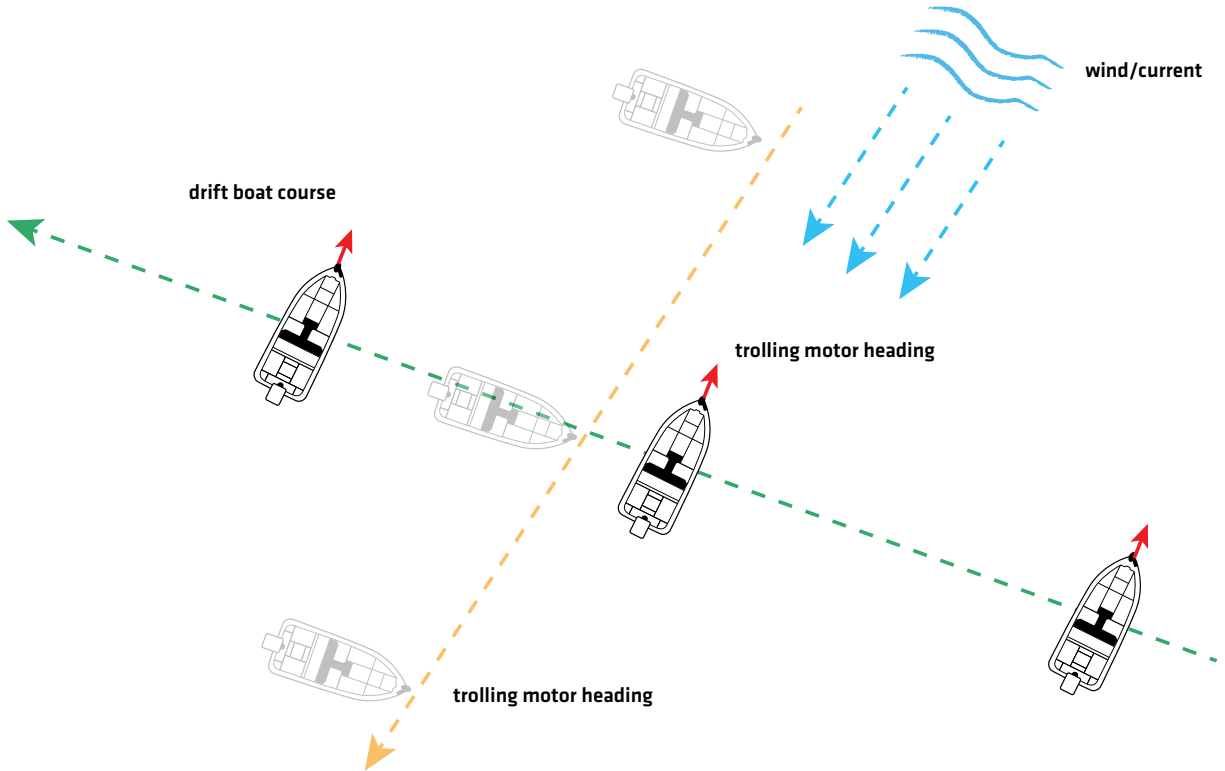
Select



Open and Select

# DRIFT MODE

When Drift Mode is engaged, the Advanced GPS Navigation system maintains a desired straight line course and target speed even if the course direction is influenced by wind, current, or other outside influences. Simply point the motor in the intended navigation direction and press Drift Mode, then adjust to the desired target speed over ground (SOG). Drift Mode will take control to allow you to focus entirely on fishing whether it's casting a targeted area, trolling crankbaits or maintaining a slow and controlled drift over specific cover or structure, even when traveling with or across wind or current. Easily make fine adjustments to the target speed or the target course or reverse it completely on the fly at any time.



## Engage Drift Mode

### Engage Drift Mode (Go To Menu)

Use the following instructions to engage Drift Mode using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Drift.

Navigation will start automatically.

**Cancel Navigation/Disengage Drift:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

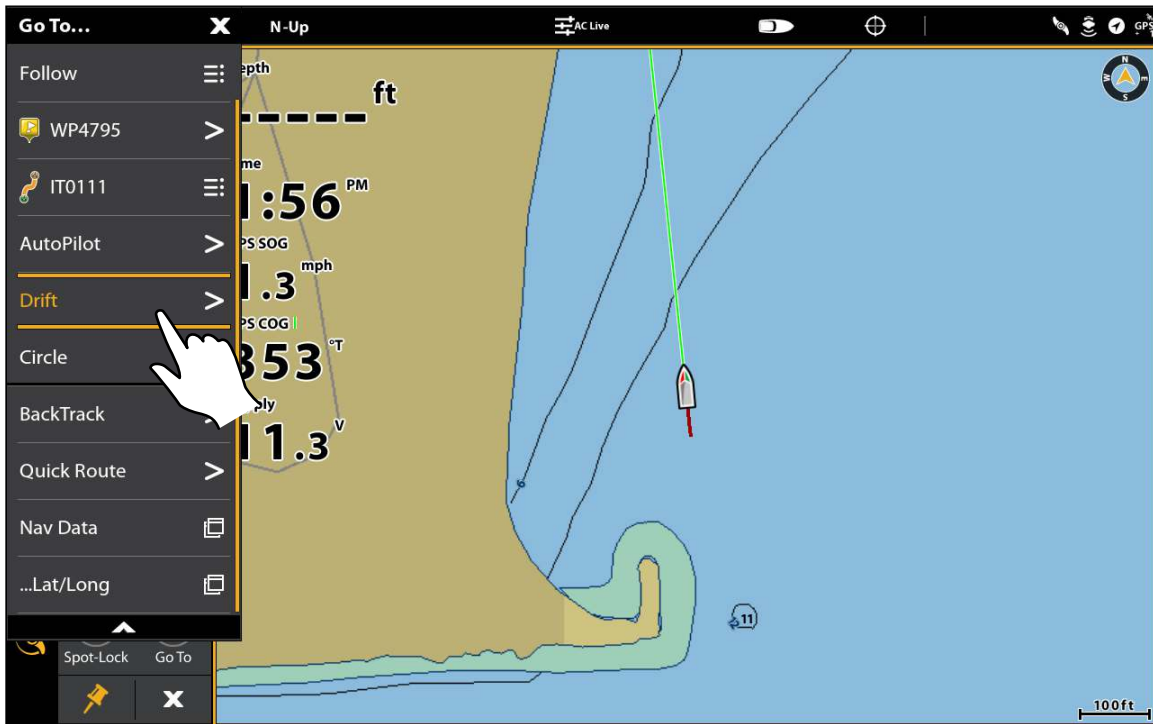
#### Keypad

1. Press the GO TO key.
2. Select Drift.
3. Press the ENTER key.

Navigation will start automatically.

**Cancel Navigation/Disengage Drift:** Press the GO TO key. Select Cancel Navigation.

## Engaging Drift Mode (Go To Menu)

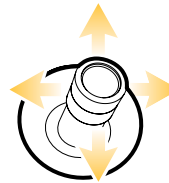


Tap to Open Go To Menu  
Tap to Select

OR



Go To



Select



Confirm

## Engage Drift Mode (Trolling Motor Virtual Remote)

Use the following instructions to engage Drift Mode using the trolling motor virtual remote.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Drift button to turn Drift ON.  
Yellow = On, Gray = Off

**Cancel Navigation/Disengage Drift** Tap the Drift button.

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Drift button.
3. Press the ENTER key to turn Drift ON.  
Yellow = On, Gray = Off

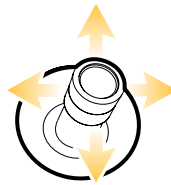
**Cancel Navigation/Disengage Drift:** Select the Drift button. Press the ENTER key.

## Engaging Drift Mode (Virtual Remote)



Tap to Turn On/Off

OR



Select



Turn On/Off

## Cancel Drift Mode

You can disengage Drift navigation using the Cancel Navigation menu option or the trolling motor virtual remote. When you cancel Advanced GPS Navigation, be prepared to take manual control of the boat.

### Cancel Navigation (Go To Menu)

Use the following instructions to cancel navigation using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Cancel Navigation.

**Be prepared to take manual control of the boat!**

#### Keypad

1. Press the GO TO key.
2. Select Cancel Navigation.
3. Press the ENTER key.

**Be prepared to take manual control of the boat!**

### Cancel Navigation (Trolling Motor Virtual Remote)

#### Touch Screen

1. During Drift navigation, open the trolling motor virtual remote.
2. Tap the Drift button.  
Yellow = On, Gray = Off

**Be prepared to take manual control of the boat!**

#### Keypad

1. During Drift navigation, open the trolling motor virtual remote.
2. Select the Drift button.
3. Press the ENTER key to turn Drift off.  
Yellow = On, Gray = Off

**Be prepared to take manual control of the boat!**

## Drift Mode Adjust Course - Angle

#### Touch Screen

1. During Drift navigation, open the trolling motor virtual remote.
2. Tap the Go To button.
3. Select Adjust Course.
4. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Angle to adjust the course in 5 degree increments.

#### Keypad

1. During Drift navigation, press the Go To button.
2. Select Adjust Course.
3. Press the ENTER key.
4. Use the Joystick to select a left or right arrow key. Press ENTER to adjust the Angle in 5 degree increments.

## Drift Mode Jog

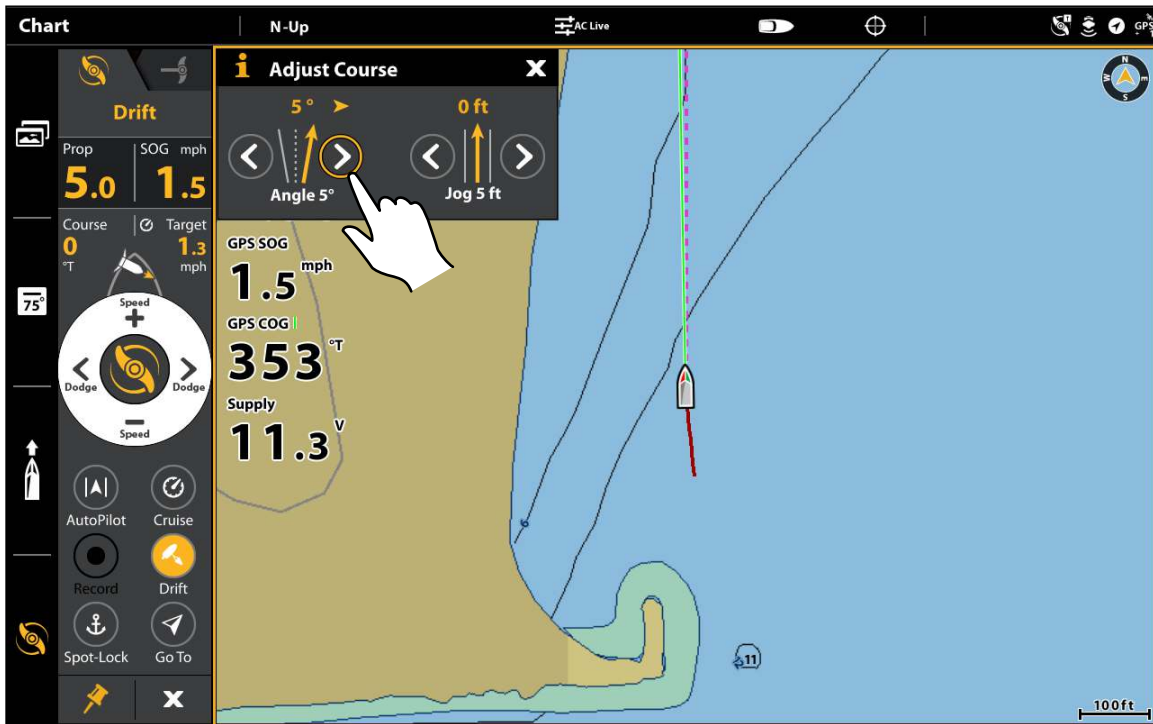
#### Touch Screen

1. During Drift navigation, open the trolling motor virtual remote.
2. Tap the Go To button.
3. Select Adjust Course.
4. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Angle to adjust the course in 5 feet increments.

#### Keypad

1. During Drift navigation, press the Go To button.
2. Select Adjust Course.
3. Press the ENTER key.
4. Use the Joystick to select a left or right arrow key. Press ENTER to adjust the Angle in 5 feet increments.

## Drift Mode - Adjust Course

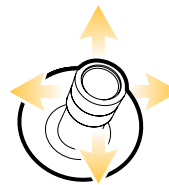


Tap to Open Go To Menu  
Tap to Select

OR



Go To



Select



Confirm

## Reverse Drift Mode

### Touch Screen

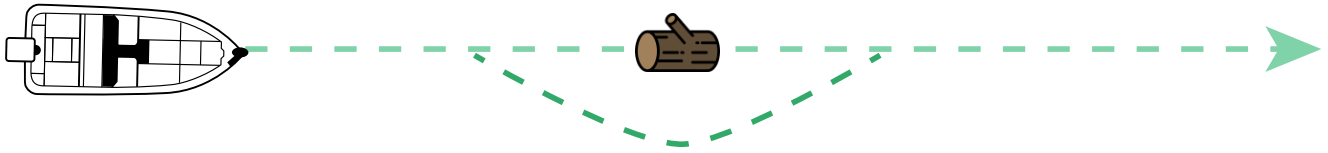
1. During Drift navigation, open the trolling motor virtual remote.
2. Tap the Go To button.
3. Select Reverse.

### Keypad

1. During Drift navigation, press the Go To button.
2. Select Reverse.
3. Press the ENTER key.

# DODGE MODE

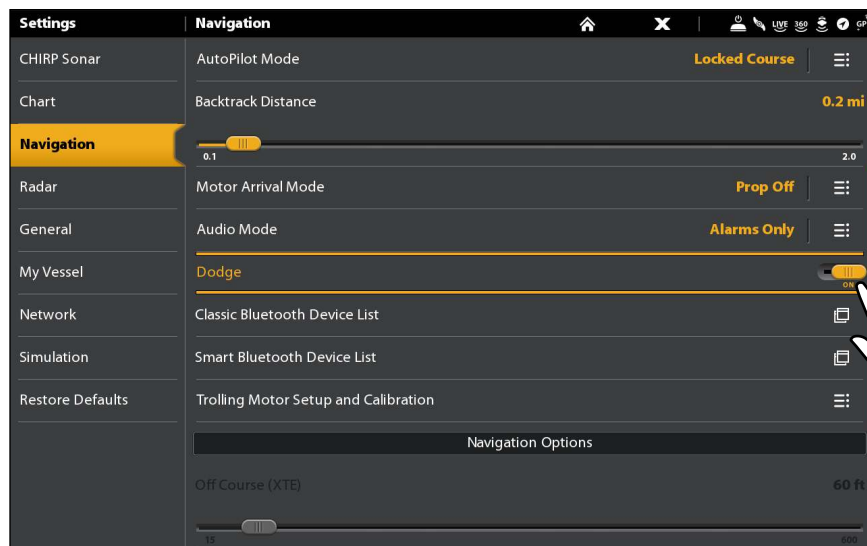
Dodge Mode allows you to temporarily suspend select forms of navigation while allowing you to manually control steering and prop speed to steer around an obstacle without canceling navigation, and then easily resume the previously suspended form of navigation. Dodge Mode is available during Drift Mode, GoTo Spot Lock, GoTo Waypoint, GoTo i-Track, GoTo Route, GoTo Waypoint, Circle Mode, Follow the Contour, and Follow the Shoreline. Dodge Mode will default to “on.”



## Turn Dodge Mode On/Off

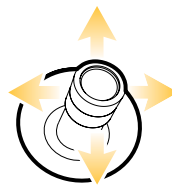
1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select Dodge.
4. Tap the on/off button, or press the ENTER key, to turn Dodge **ON**.

### Turning On Dodge Mode



Tap to Select

OR



Select



Confirm



## Engage and Disengage Dodge Mode

1. While actively navigating a course, tap the left or right arrows to pause navigation and enter Dodge Mode.
2. Tap the left and right arrows to steer around the obstruction.
3. **Resume Navigation/Disengage Dodge:** Tap Chart in the status bar. Select Go To > Resume.

### Engage Dodge Mode



Tap the Arrows to Steer

OR



Turn to Steer

# WAYPOINTS



Waypoints are saved latitude/longitude positions. They mark a position of interest, such as your favorite fishing area, structure, or marker buoy. The Humminbird fish finder saves the position and allows you to edit the waypoint name, icon, and more [see **Manage your Advanced GPS Navigation Data**]. You can save a combination of up to 4,500 Spot-Locks and waypoints on your fish finder. For complete details, see your Humminbird operations manual.



**WARNING!** Watch for a turning propeller and be prepared for boat movement when working with waypoints. If Prop Auto-On is turned on, the propeller will automatically turn on when a waypoint is engaged, even if the engagement is accidental. A turning propeller can cause injury.

## Mark a Waypoint

Waypoints can be marked at the vessel position or cursor position using the MARK key and Mark menu.

### Mark a Waypoint at the Boat Position

#### Touch Screen

1. Tap Chart in the status bar. Select Mark.
2. Select Waypoint.

If the cursor is active, select Vessel Position.

#### Keypad

1. Press the MARK key twice.

If the cursor is active, select Vessel Position.

### Marking a Waypoint at the Boat Position



Waypoint will be marked at the boat position.



Tap to Open the Mark Menu  
Tap to Select

OR



Press Twice

## Mark a Waypoint at the Cursor Position

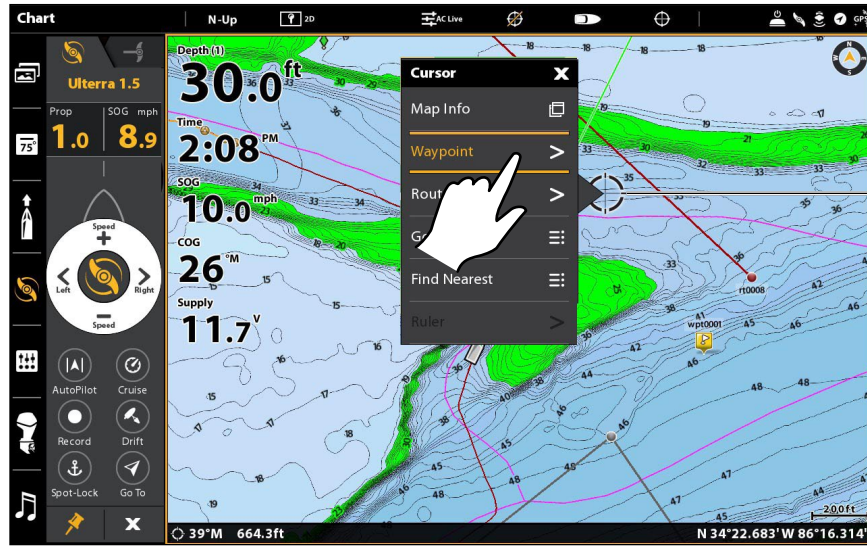
### Touch Screen

1. Press and hold a position on the chart where you want to mark a waypoint.
2. Select Waypoint.

### Keypad

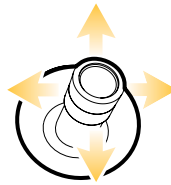
1. Use the Joystick to move the cursor to a position on the chart where you want to mark a waypoint.
2. Press the MARK key twice.

### Using the Touch Screen to Mark a Waypoint at the Cursor Position



Press and Hold  
Tap to Select

OR



Use Joystick to  
Select Position



Press Twice

## Start Navigation to a Saved Waypoint

If a saved waypoint is within 1/4 mile of the boat position, you can start Advanced GPS Navigation towards it.



**CAUTION!** 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 waypoint position. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

## Start Navigation to the Most Recently Created Waypoint in Chart View

---

Before proceeding, confirm the cursor is not active.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.

**OR**

Tap the Go To button on the trolling motor virtual remote.

2. Select the Waypoint Name. The last waypoint created is displayed in the menu using the waypoint name.
3. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

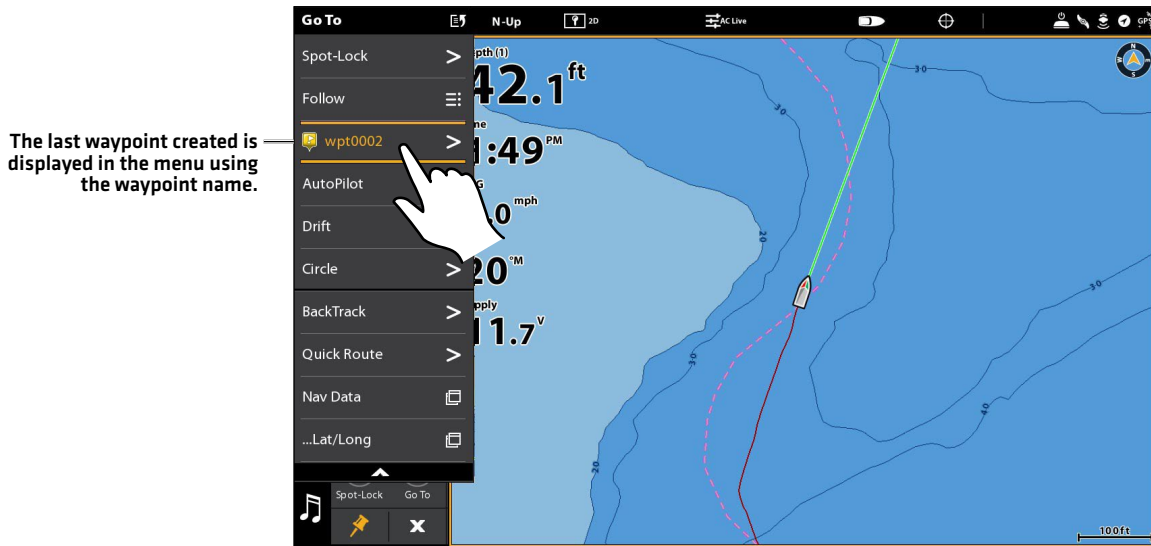
1. Press the GO TO key.
2. Select the Waypoint Name. The last waypoint created is displayed in the menu using the waypoint name.
3. Press the ENTER key.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Starting Navigation to the Last Saved Waypoint in Chart View



The last waypoint created is displayed in the menu using the waypoint name.

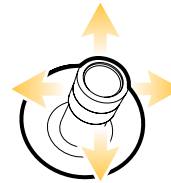


Tap to Open Go To Menu  
Tap to Select

OR



Open the  
Go To Menu



Select



Confirm

## Start Navigation to a Saved Waypoint in Chart View

### Touch Screen

1. Tap a waypoint icon on the chart.
2. Tap Chart in the status bar. Select Go To.
3. Select Go To: Point.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Use the Joystick to move the cursor to a waypoint icon.
2. Press the GO TO key.
3. Select Go To: Point.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Convert a Waypoint to a Spot-Lock

To convert a waypoint position to a Spot-Lock, see *Spot-Locks: Convert a Waypoint to a Spot-Lock in Chart View*.



**NOTE:** When the waypoint is converted to a Spot-Lock, the following menu options are disabled: icon editing, waypoint avoidance, and depth marker.

## Delete a Saved Waypoint in the Chart View

### Touch Screen

1. Tap a waypoint icon on the chart.
2. Tap the Waypoint Name.
3. Select Delete.

### Keypad

1. Use the Joystick to move the cursor to a waypoint icon.
2. Press the ENTER key.
3. Select Delete.
4. Press the ENTER key.

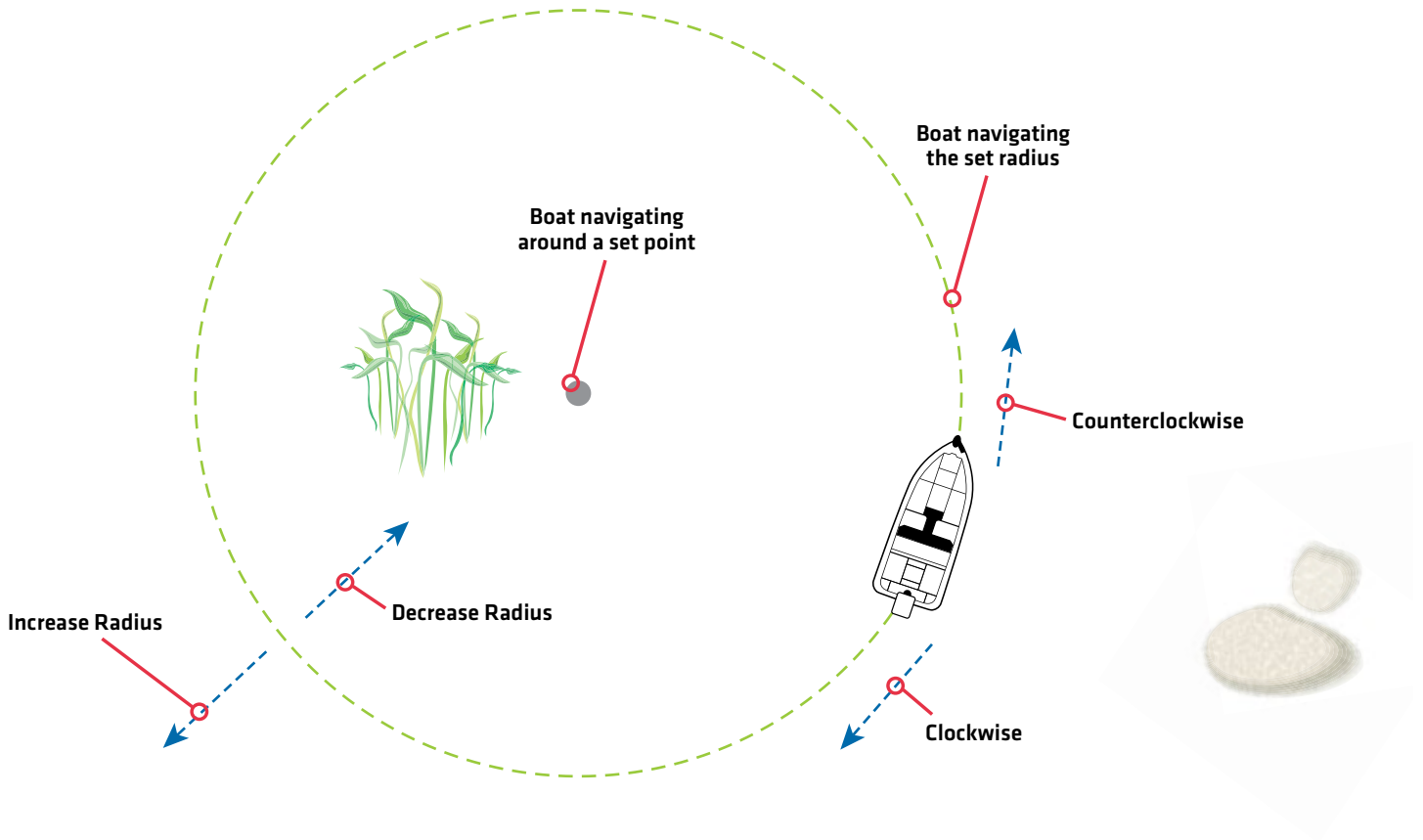


**NOTE:** You can also delete saved waypoints from the Nav Data tool. See *Manage your Advanced GPS Navigation Data* for more information.

# CIRCLE MODE

Circle Mode allows you to navigate a set point in a circle, either clockwise or counterclockwise. You can also adjust the circle radius. Circle Mode cannot be activated from the Wireless remote, but the direction of travel and radius of the circle can be adjusted, and the function can be exited using the trolling motor remote.

**⚠ WARNING!** Watch for a turning propeller and be prepared for boat movement when working with Circle Mode. If Prop Auto-On is turned on, the propeller will automatically turn on when Circle Mode is engaged, even if the engagement is accidental. A turning propeller can cause injury.



## Navigate in Circle Mode

You can start Circle Mode at the vessel position or the cursor position. During Circle Mode navigation, you can also use Cruise Control (see *Cruise Control*).

### Start Circle Mode at the Vessel Position

You can start Circle Mode at the boat position using the Go To menu or the trolling motor virtual remote. Before proceeding, confirm the cursor is not active.

**CAUTION!** Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat when Circle Mode is engaged. If the boat does not move, confirm the prop is turned on in the menu system (see *Propeller Controls*).

### Start Circle Mode at the Vessel Position (Go To Menu)

Use the following instructions to start Circle Mode at the boat position using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Circle.

**Adjust the Radius [optional]:** Select Radius. Drag the slider, or press and hold the slider.

4. **Select Navigation Direction:** Select Clockwise or Counterclockwise.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

#### Keypad

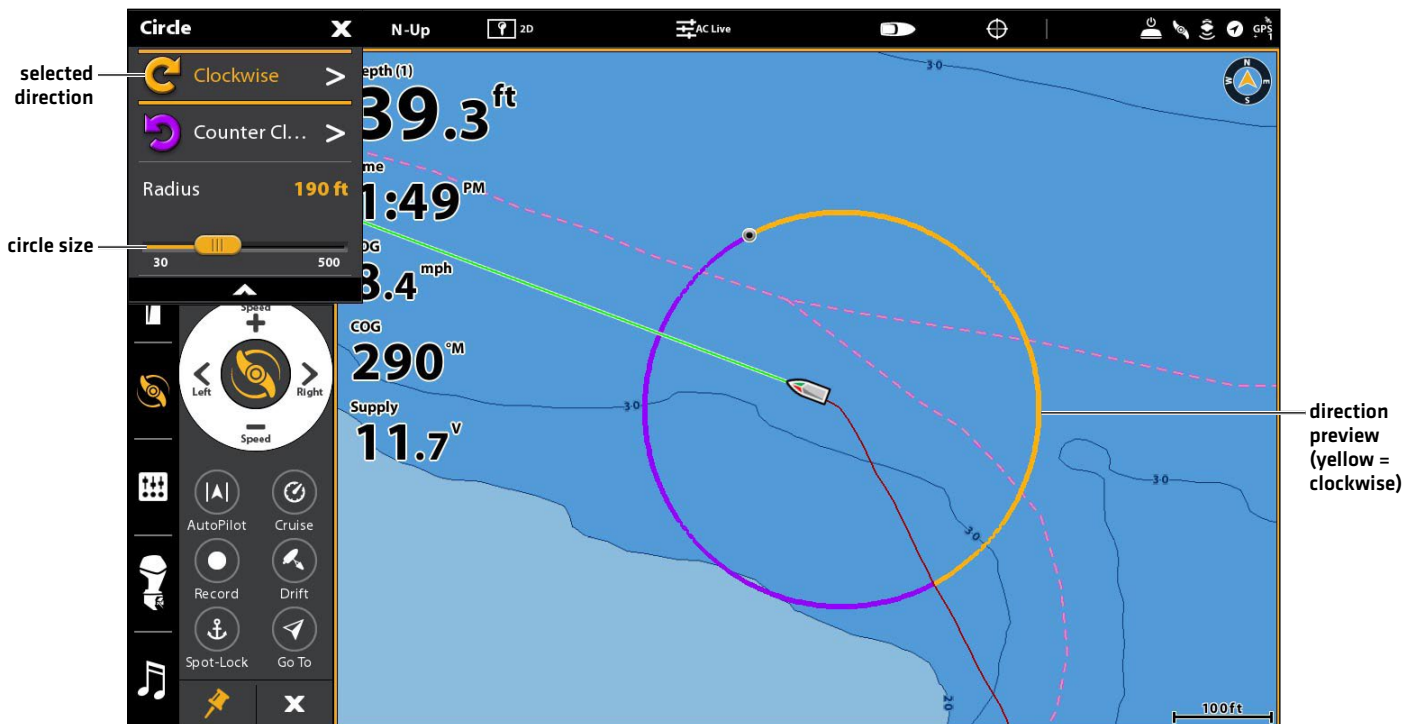
1. Press the GO TO key.
2. Select Circle. Press the ENTER key.

**Adjust the Radius [optional]:** Select Radius. Turn the Rotary dial, or press and hold the ENTER key.

3. **Select Navigation Direction:** Select Clockwise or Counterclockwise. Press the ENTER key.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation. Press the ENTER key.

### Selecting a Direction for Circle Mode at the Boat Position





## Start Circle Mode at the Cursor Position

Use the following instructions to start Circle Mode at the cursor position using the Go To menu. The boat must be within 1/4 mile of the cursor position to begin Circle Mode navigation. Starting Circle Mode at the cursor position is not available on the trolling motor virtual remote.

**CAUTION!** Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat when Circle Mode is engaged. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

### Touch Screen

1. Tap a position on the chart.
2. Tap Chart in the status bar.
3. Select Go To.
4. Select Circle.
5. Select Circle > At Cursor.

**Adjust the Radius [optional]:** Select Radius. Drag the slider, or press and hold the slider.

6. Select Clockwise or Counterclockwise.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

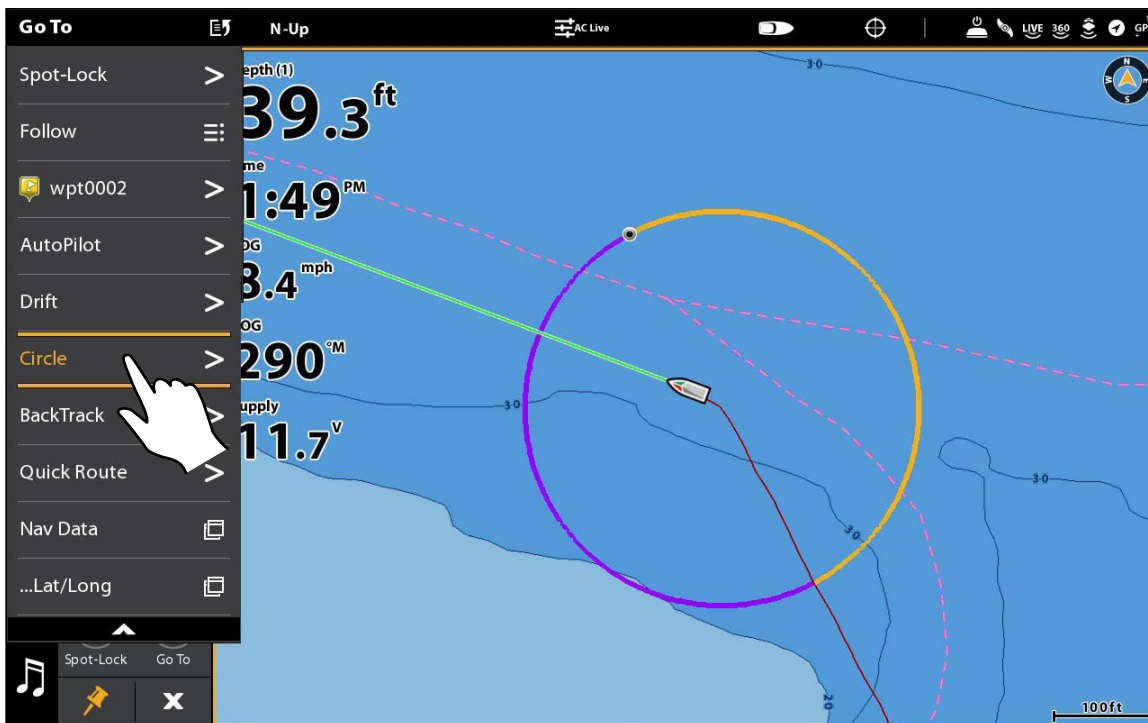
1. Use the Joystick to select a position on the chart.
2. Press the GO TO key.
3. Select Circle. Press the ENTER key.
4. Select Circle > At Cursor.

**Adjust the Radius [optional]:** Select Radius. Turn the Rotary dial, or press and hold the ENTER key.

5. Select Clockwise or Counterclockwise. Press the ENTER key.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation. Press the ENTER key.

### Selecting a Direction for Circle Mode at the Cursor Position



## Adjust Circle Mode Settings



**CAUTION!** Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat when Circle Mode is engaged. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

### Reverse Direction during Circle Mode

---

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Reverse.

#### Keypad

1. Press the GO TO key.
2. Select Reverse. Press the ENTER key.

### Adjust the Radius during Circle Mode

---

Use the following instructions to adjust the size of the circle.

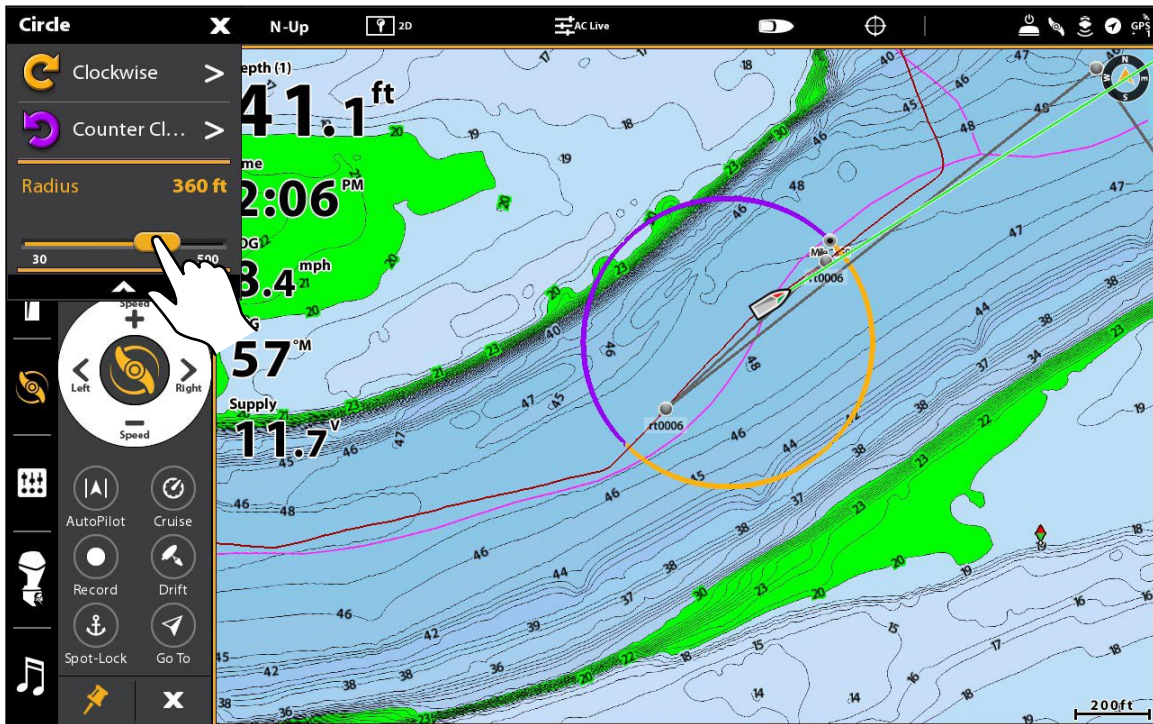
#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. **Adjust:** Select Radius. Drag the slider, or press and hold the slider.

#### Keypad

1. Press the GO TO key.
2. Select Radius.
3. **Adjust:** Turn the Rotary dial, or press and hold the ENTER key.

## Adjusting the Circle Size



Slide to Adjust Setting

OR



Turn to Adjust the Setting

## Cancel Navigation (Disengage)

### Cancel Navigation (Go To Menu)

Use the following instructions to cancel navigation using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Cancel Navigation.


**Be prepared to take manual control of the boat!**

#### Keypad

1. Press the GO TO key.
2. Select Cancel Navigation.
3. Press the ENTER key.




**Be prepared to take manual control of the boat!**

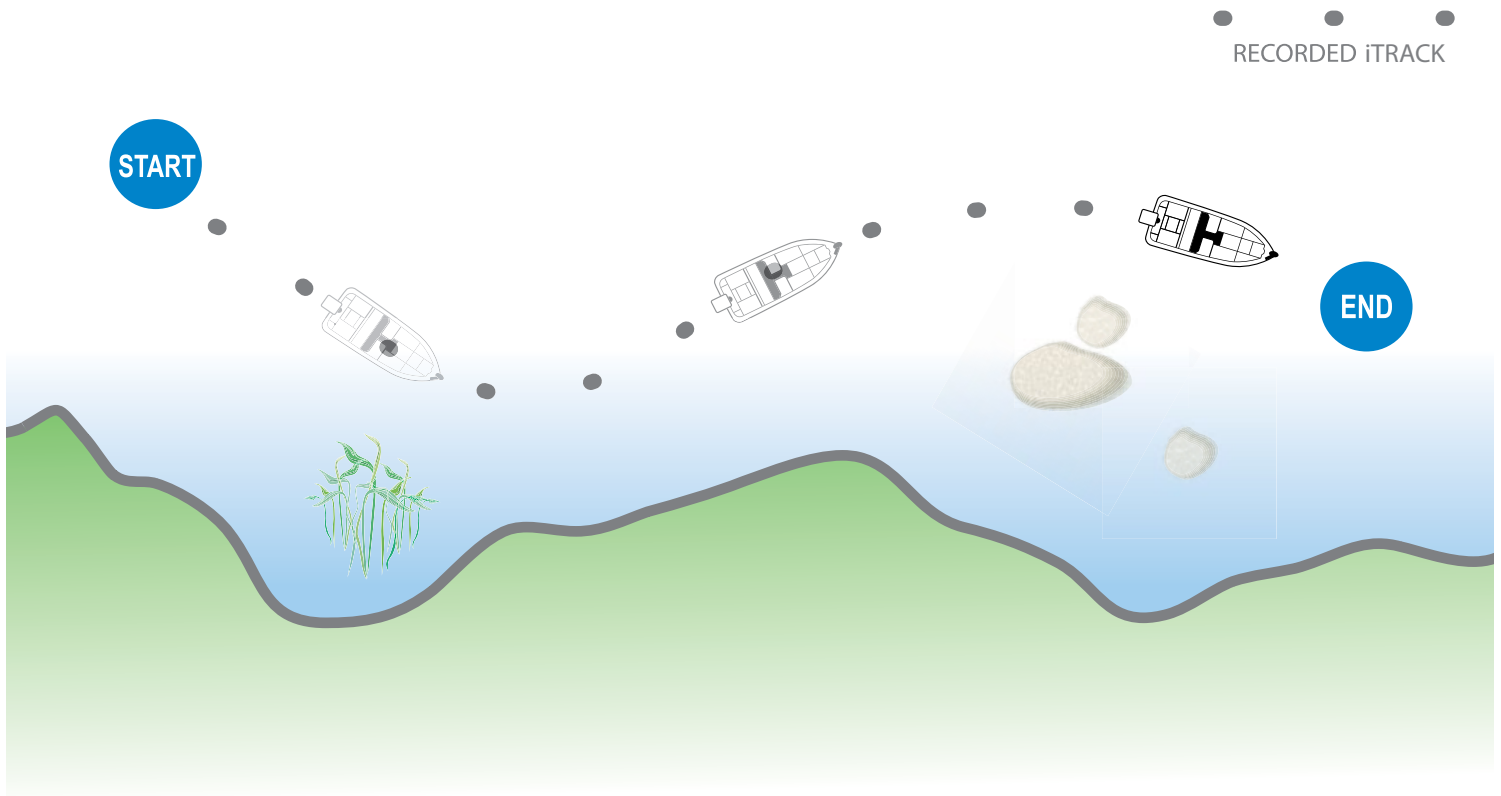
# iTRACKS

-  When the recording of an iTrack is initiated, Advanced GPS starts to record GPS position data in the form of track points. The distance between these points varies based on the speed of the boat and the GPS signal strength. Advanced GPS sees a recorded iTrack as a series of these track points. iTracks can be recorded for a distance of up to 2 miles. Active iTracks used for navigation and iTracks being actively recorded are always visible. Saved iTracks can be set to visible or hidden [see **Display Spot-Locks and iTracks on the Chart View**].

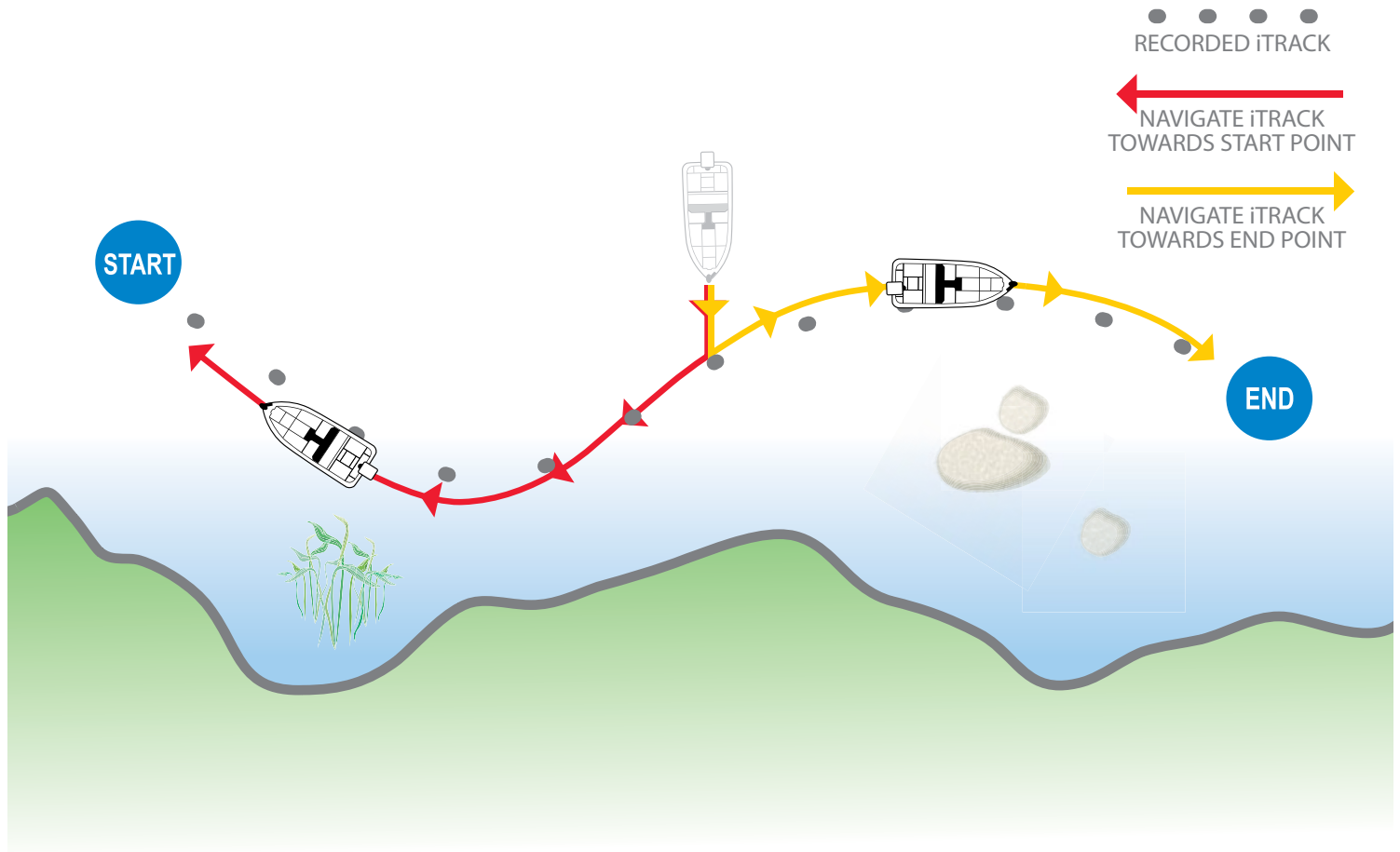
You can save up to 50 iTracks on your fish finder, or up to 16 on the trolling motor when operating without the Humminbird fish finder. iTracks are saved with an alphanumeric name that can be edited on the fish finder in Chart View or from the Nav Data tool. You can also edit the iTrack appearance and whether or not it is visible on the Chart View. See **Manage Your Advanced GPS Navigation Data**.

During iTrack navigation, Advanced GPS takes control over all steering functions. Speed can be manually controlled or the Cruise Control function can also be used. The motor speed must be set high enough in order to stay on the iTrack given wind, current, and other external forces. See **Propeller Controls** for more information.

-  **Route Points** are stored latitude/longitude positions that connect to form route navigation.
-  **iTrack Start Point** - The very first track point recorded is called the Start Point.
-  **iTrack End Point** - The last point recorded is called the End Point.



When **Navigate to Start** or **Navigate to End** is initiated, Advanced GPS will navigate to the nearest track point. Once this nearest track point is reached, it will then follow the track points in sequence back to either the **Start Point** or **End Point**, based on the selected mode. Once the end or start track point is reached, Advanced GPS automatically cancels the iTrack navigation. You can choose to have Advanced GPS transition to other modes by configuring the Arrival Mode [see **Configure Advanced GPS with the Fish Finder: Set the Arrival Mode**].



## Record an iTrack

When you are ready to record an iTrack, iTrack recording can be initiated from the Mark menu in the Chart View or from the trolling motor virtual remote.

When **Record iTrack** is turned on, iTrack recording will begin from the current vessel position, and will automatically stop when a 2 mile distance is achieved. The boat must already be moving when iTrack recording is initiated.

To stop iTrack recording, turn Record iTrack off.

### Start iTrack Recording (Go To Menu)

Use the following instructions to record an iTrack using the Go To menu.

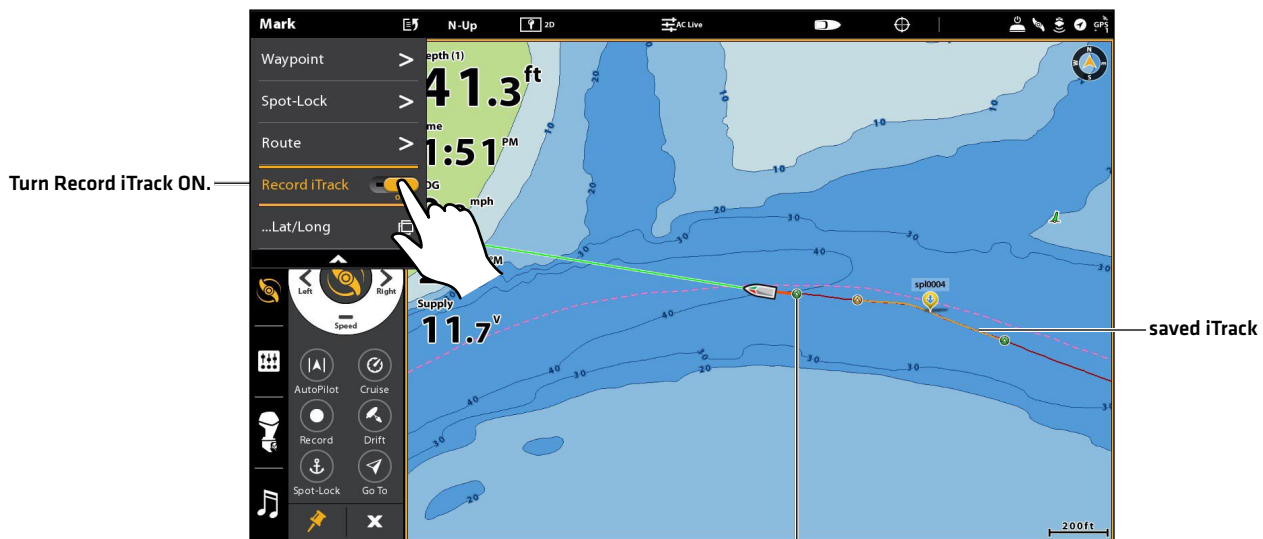
#### Touch Screen

1. Tap Chart in the status bar. Select Mark.
2. Tap the Record iTrack on/off button to turn Record iTrack ON.

#### Keypad

1. Press the MARK key.
2. Select Record iTrack.
3. Press the ENTER key to turn Record iTrack ON.

### Starting iTrack Recording



Start Point will be marked at the boat's current position when iTrack Recording is initiated.

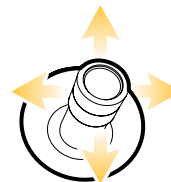


Tap to Open Go To Menu  
Tap to Select

OR



Open Mark Menu



Select



Confirm

## Start iTrack Recording (Trolling Motor Virtual Remote)

Use the following instructions to record an iTrack using the trolling motor virtual remote.

### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Record button.  
Yellow = On

### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Record button. Press the CHECK/ENTER key.  
Yellow = On

### Recording an iTrack using the Trolling Motor Virtual Remote



## Stop iTrack Recording

Use the following instructions to stop recording an iTrack and save it (or discard it). When you save an iTrack, it is saved with an alphanumeric name that starts with IT. The name can be edited from the Nav Data Tool [see *Manage your Advanced GPS Navigation Data*].

### Stop iTrack Recording (Go To Menu)

---

Use the following instructions to stop iTrack recording using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar. Select Mark.
2. Tap the Record iTrack on/off button to turn Record iTrack OFF.
3. **Save or Discard:** Follow the on-screen prompts to save the iTrack.

#### Keypad

1. Press the MARK key.
2. Select Record iTrack.
3. Press the ENTER key to turn Record iTrack OFF.
4. **Save or Discard:** Follow the on-screen prompts to save the iTrack.

### Stop iTrack Recording (Trolling Motor Virtual Remote)

---

Use the following instructions to stop iTrack recording using the trolling motor virtual remote.

#### Touch Screen

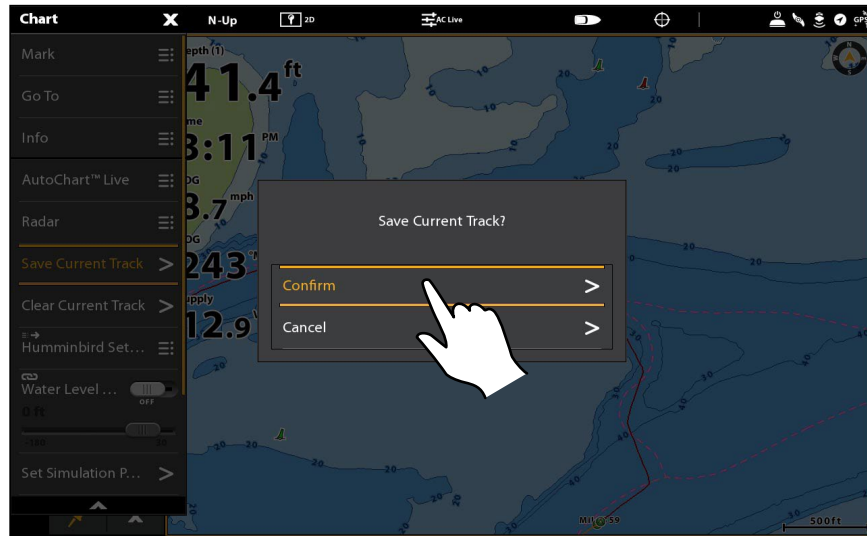
1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Record button.  
Gray = Off
3. **Save or Discard:** Follow the on-screen prompts to save the iTrack.

#### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Record button. Press the CHECK/ENTER key.  
Gray = Off
3. **Save or Discard:** Follow the on-screen prompts to save the iTrack.

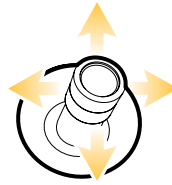


## Saving the Recorded iTrack



Tap to Select

OR



Select



Confirm

## Select and Navigate a Saved iTrack

If a saved iTrack is within 1/4 mile of the boat position, you can start navigation towards it. iTrack navigation will start towards the nearest point on the iTrack, and then it will navigate to the Start Point or End Point, depending on your selection.



**NOTE:** If you start another mode of navigation, Navigate iTrack will disengage automatically. The exception is Spot-Lock, which if this is engaged, iTrack navigation will be paused, not disengaged. See **Spot-Locks: Resume Advanced GPS Navigation (Spot-Lock Pause)** for more details.

## Select and Navigate a Saved iTrack in the Chart View

### Touch Screen

1. Press and hold a position on the iTrack.
2. Tap Chart in the status bar. Select Go To.

**OR**

Select the Go To button on the trolling motor virtual remote.

3. From the menu, select one of the following options:  
**To navigate to the iTrack Start Point**, select Go To Start.  
**To navigate to the iTrack End Point**, select Go To End.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

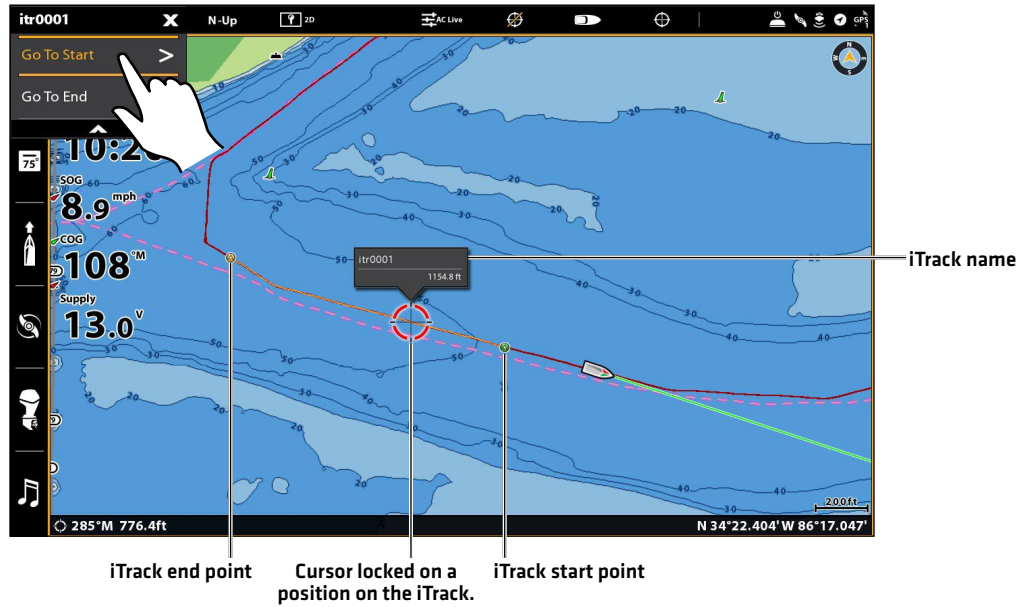
### Keypad

1. Use the Joystick to move the cursor to a position on the iTrack.
2. Press the GO TO key.
3. From the menu, select one of the following options:  
**To navigate to the iTrack Start Point**, select Go To Start.  
**To navigate to the iTrack End Point**, select Go To End.
4. To start navigation, turn on the trolling motor prop.  
**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Starting iTrack Navigation from the Go To Menu

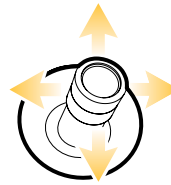


Tap to Open Go To Menu  
Tap to Select

OR



Open Go To Menu



Select



Confirm

## Select and Navigate a Saved iTrack from the Nav Data Tool

Before proceeding, confirm the cursor is not active.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Nav Data.
3. Under Lists, select iTracks.
4. Press and hold an iTrack Name.
5. Select Go To.
6. Select a navigation option.
7. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Nav Data. Press the ENTER key.
3. Under Lists, select iTracks. Press the ENTER key.
4. Select a saved iTrack and press the GO TO key.
5. Select a navigation option and press the ENTER key.
6. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Select and Navigate the Last Saved iTrack

---

Before proceeding, confirm the cursor is not active.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Last Saved iTrack.
3. From the menu, select one of the following options:
  - To navigate to the iTrack Start Point**, select Go To Start.
  - To navigate to the iTrack End Point**, select Go To End.
4. To start navigation, turn on the trolling motor prop.  
**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Last Saved iTrack. Press the ENTER key.
3. From the menu, select one of the following options:
  - To navigate to the iTrack Start Point**, select Go To Start.
  - To navigate to the iTrack End Point**, select Go To End.
4. To start navigation, turn on the trolling motor prop.  
**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See *Propeller Controls* for more details about turning the prop on or off and setting the prop speed.

## Reverse Direction During iTrack Navigation

---

If you are navigating a saved iTrack, you can quickly change the navigation direction toward the Start Point or End Point. For example, if Advanced GPS is navigating to the Start Point, selecting **Reverse** will start Advanced GPS navigation in the opposite direction, towards the End Point.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Reverse.  
**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Reverse.
3. Press the ENTER key.  
**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See *Propeller Controls* for more details about turning the prop on or off and setting the prop speed.

## Cancel Navigation (Disengage)

### Cancel Navigation (Go To Menu)

---

Use the following instructions to cancel navigation using the Go To menu.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select Go To.
3. Select Cancel Navigation.

**Be prepared to take manual control of the boat!**

#### Keypad

1. Press the GO TO key.
2. Select Cancel Navigation.
3. Press the ENTER key.

**Be prepared to take manual control of the boat!**

### Cancel Navigation (Trolling Motor Virtual Remote)

---

#### Touch Screen

1. During iTrack navigation, open the trolling motor virtual remote:  
  
Tap the trolling motor icon in the side bar.
2. Tap the iTrack button to turn off iTrack.  
  
Yellow = On, Gray = Off

**Be prepared to take manual control of the boat!**

#### Keypad

1. During iTrack navigation, open the trolling motor virtual remote:  
  
Press the PANE key. Select the trolling motor icon.
2. Select the iTrack button.
3. Press the ENTER key to turn off iTrack.  
  
Yellow = On, Gray = Off

**Be prepared to take manual control of the boat!**

## Move a Saved iTrack

Use the following instructions to move the position of a saved iTrack on the Chart View. This feature is not available using the trolling motor virtual remote.

### Move a Saved iTrack in the Chart View

---

#### Touch Screen

1. Tap the Start Point icon or End Point icon on the iTrack.
2. Tap the iTrack name.
3. From the iTrack Info menu, select Move.
4. Tap a position on the chart where you want to move the iTrack to.
5. **Save:** Tap the check icon in the status bar to save the iTrack at the new position.

**Cancel:** Tap the X icon.

#### Keypad

1. Use the Joystick to move the cursor to the Start Point icon or End Point icon on the iTrack.
2. Press the ENTER key.
3. From the iTrack Info menu, select Move.
4. Use the Joystick to move the cursor to the new position on the chart.
5. **Save:** Press the ENTER key to save the iTrack at the new position.

**Cancel:** Press the EXIT key.

## Delete a Saved iTrack

You can delete a saved iTrack in the Chart View or from the Nav Data tool [see *Manage Your Advanced GPS Navigation Data*].

### Delete a Saved iTrack in the Chart View

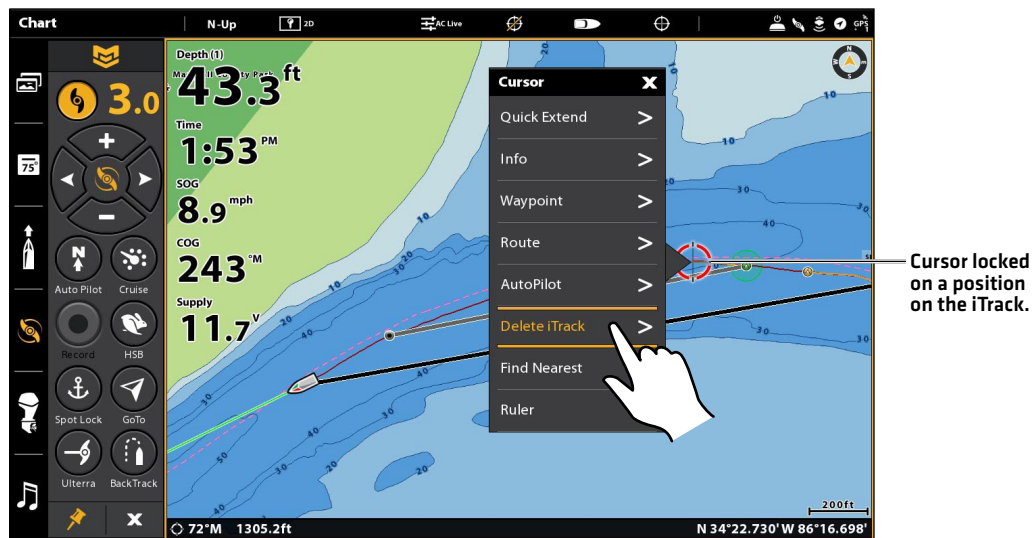
#### Touch Screen

1. Press and hold the Start Point icon, End Point icon, or a position on the iTrack.
2. Select Delete iTrack.

#### Keypad

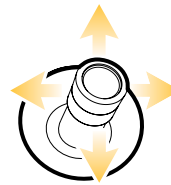
1. Use the Joystick to move the cursor to the Start Point icon, End Point icon, or a position on the iTrack.
2. Press the ENTER key.
3. From the iTrack Info menu, select Delete iTrack.
4. Press the ENTER key.

#### Using the Touch Screen to Delete a Saved iTrack in Chart View



Press and Hold to Open Cursor Menu  
Tap to Select

OR



Select



Open iTrack Info Menu  
Confirm

## Delete a Saved iTrack from the Nav Data Tool

Before proceeding, confirm the cursor is not active.

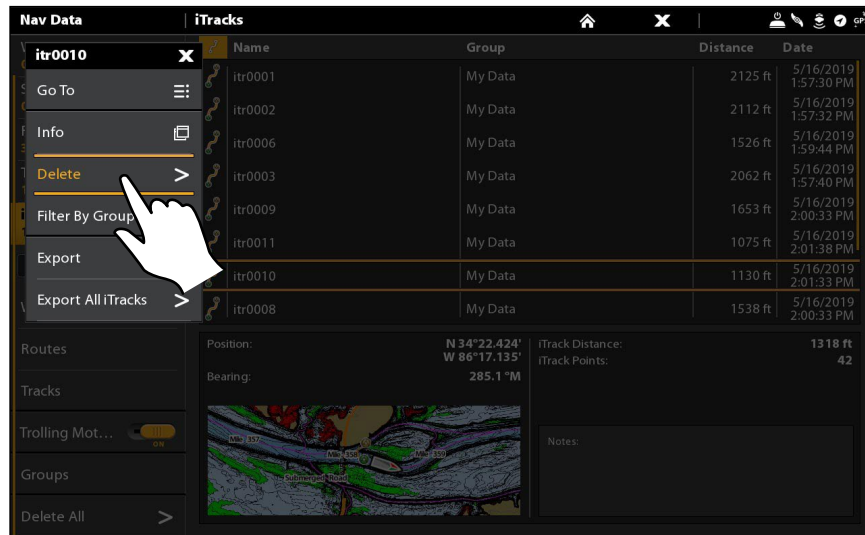
### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Nav Data.
3. Under Lists, select iTracks.
4. Press and hold an iTrack name.
5. Select Delete.

### Keypad

1. Press the GO TO key.
2. Select Nav Data.
3. Under Lists, select iTracks.
4. Select the iTrack name and press the MENU key.
5. Select Delete and press the ENTER key.

### Deleting a Saved iTrack from the Nav Data Tool

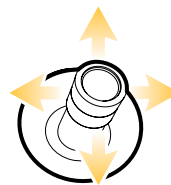


Press and Hold to Open iTrack Info Menu  
Tap to Select

OR



Open iTrack Info Menu



Select





Confirm

# BACKTRACK

Traditional Humminbird tracks consist of a collection of track points that contain the vessel's detailed position history at set intervals. The Current Track shows the position history since the Humminbird fish finder was powered on. You can clear the Current Track or save it at any time. For more information about tracks, see your Humminbird operations manual.

**BackTrack** starts Advanced GPS navigation back through the Current Track. When BackTrack is selected, Advanced GPS will mark a Start Point at the boat's current position, and navigate to the last track point recorded. It will then create a saved iTrack on top of the Current Track, [up to 2 miles]. Set the **BackTrack Distance** to control how far you will navigate on the Current Track.

 **NOTE:** You can activate BackTrack on the Current Track. BackTrack is not available on saved tracks or when Follow the Contour is active.

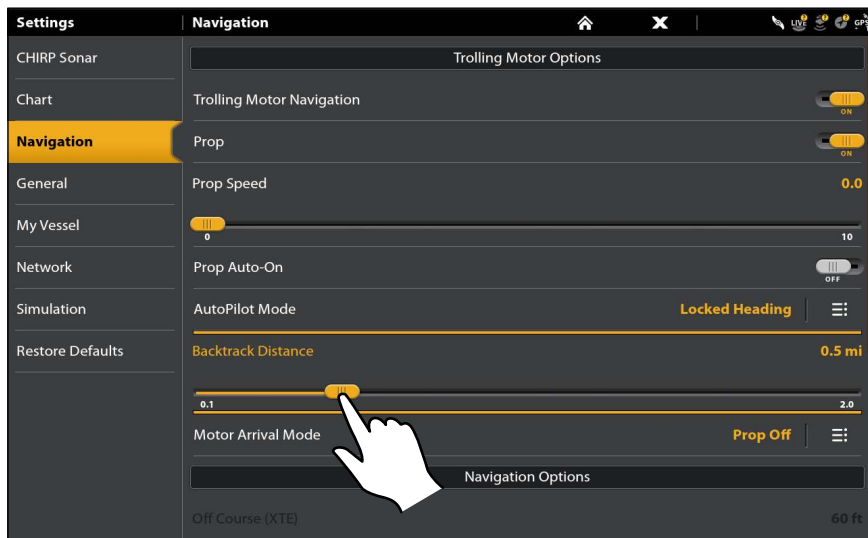
 **NOTE:** Record Track must be enabled to use BackTrack [Nav Data Tool > Options > Tracks > Record Track].

## Set the BackTrack Distance

Set the BackTrack Distance to control how far you will navigate the Current Track.

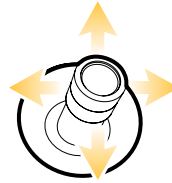
1. Press the HOME key. Select Settings.
2. Select Navigation.
3. Under Trolling Motor Options, select BackTrack Distance.
4. Press and hold the slider, or turn the Rotary dial, to adjust the BackTrack Distance setting.

### Setting the BackTrack Distance



Press and Hold  
OR Drag the Slider

OR



Select



Turn to Adjust Setting



## Start BackTrack Navigation

To use BackTrack, the fish finder must be actively tracking. Once BackTrack navigation starts, you can also use iTrack features, including Reverse [see *iTracks: Reverse Direction During iTrack Navigation*].



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.



**NOTE:** If BackTrack is not displayed in the Go To menu, confirm you are actively tracking and that Record Track is enabled [Nav Data Tool > Options > Tracks > Record Track].

## Start BackTrack Navigation (Go To Menu)

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select BackTrack.
3. To start navigation, turn on the trolling motor prop.

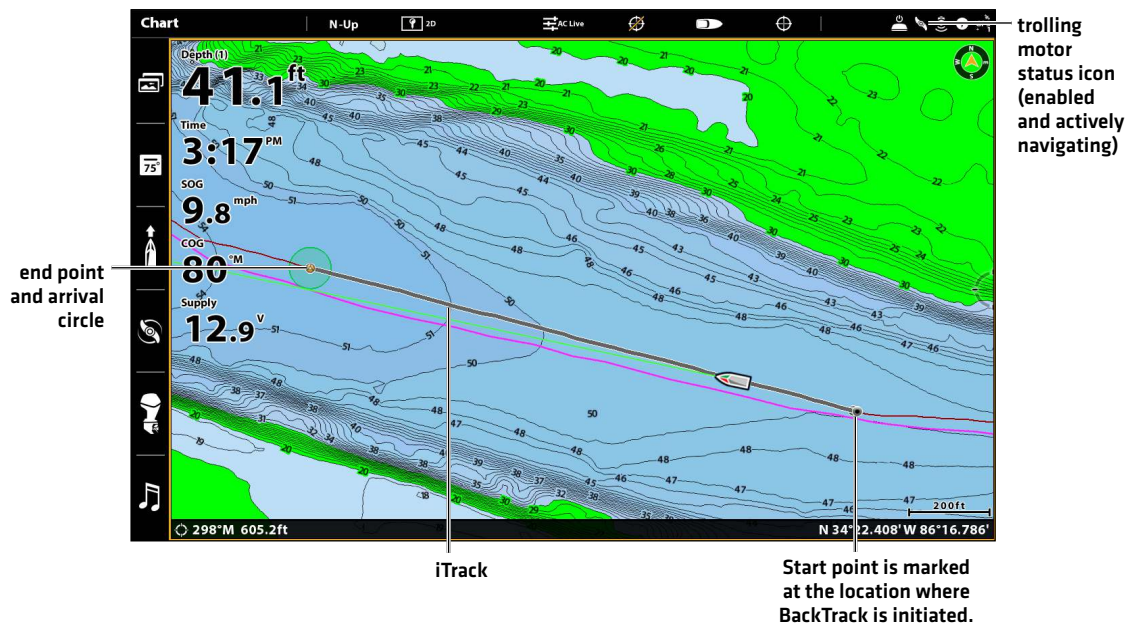
**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select BackTrack. Press the ENTER key.
3. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.


### Navigating BackTrack




# FOLLOW THE CONTOUR/SHORELINE

---

Follow the Contour and Follow the Shoreline allow you to navigate a contour or shoreline on the Chart View. When you start Advanced GPS Navigation to Follow the Contour/Shoreline, all other types of navigation are stopped on the fish finder and the Ethernet network. AutoChart Live also allows you to follow depth contours, weed edges, and bottom hardness using Advanced GPS Navigation.

 **WARNING!** Watch for a turning propeller and be prepared for boat movement when working with Follow the Contour/Shoreline. If Prop Auto-On is turned on, the propeller will automatically turn on when Follow the Contour/Shoreline is engaged, even if the engagement is accidental. A turning propeller can cause injury.

 **NOTE:** When Advanced GPS is following the contour or shoreline, the Current Track is not saved, and iTracks cannot be recorded.

## Preparation

Use the following instructions to prepare the fish finder to Follow the Contour/Shoreline.

### Install the Chart or Map Card

To use Follow the Contour or Follow the Shoreline, a compatible map card must be installed and selected as the chart source. If using an AutoChartPC Live Data connection, confirm the connection between your PC and Humminbird fish finder.

**Required:** Compatible Humminbird CoastMaster Map Card, LakeMaster Map Card, LakeMaster PLUS Map Card, AutoChart ZeroLine Map Card, or AutoChart Live saved map. Visit [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) for the latest list of compatible charts and accessory guides.

1. Install a Humminbird CoastMaster Map Card, LakeMaster Map Card, LakeMaster PLUS Map Card or AutoChart ZeroLine Map Card into the card slot. See your Humminbird operations manual for details.

 **WARNING!** Do not leave the SD slot cover open. The slot cover should always be closed to prevent water damage to the unit.

### Select the Chart Source

---

#### Touch Screen

1. Tap the Home icon in the status bar.
2. Select Settings.
3. Select Chart.
4. Under Chart Source, select Humminbird.


#### Keypad

1. Press the HOME key.
2. Select Settings.
3. Select Chart.
4. Under Chart Source, select Humminbird.

### Set the Water Level Offset

---

Before starting navigation, set the Water Level Offset setting to change the water level read by the Humminbird fish finder. For example, if the lake is down 5 feet, set the Water Level Offset setting to -5. The displayed numbers on the Contour Lines will adjust from the Water Level Offset setting, and the water level offset will be highlighted in brown to extend the land visually on the display.

 **NOTE:** Humminbird must be selected as the chart source to enable this feature.

#### Touch Screen

1. Select Settings > Chart.
2. Select Water Level Offset.
3. **On:** Tap the on/off button to turn it on.

**Adjust:** Drag the slider, or press and hold the slider.

#### Keypad

1. Select Settings > Chart.
2. Select Water Level Offset.
3. **On:** Press the ENTER key to turn it on.

**Adjust:** Turn the Rotary dial, or press and hold the ENTER key.

## Set the Contour Lines to Visible (VX Chart Cards)

---

Turn on **Contour Lines** to display contour lines on the Chart View. Adjust the Contour Density to set the density between each contour line [optional]. A lower density will display fewer contour lines on the chart. A higher density will display more contour lines on the chart. Contour Intervals must be turned on to use Follow the Contour navigation.

### Touch Screen

1. Open Chart View.
2. Tap Chart in the status bar.
3. Select Chart Options > Depths/Contours.
4. Select Contour Lines.
5. **On/Off:** Tap the on/off button to turn it on.

**Adjust [optional]:** Under Contour Density, select High, Medium or Low.

### Keypad

1. Open Chart View.
2. Press the MENU key.
3. Select Chart Options > Depths/Contours.
4. Select Contour Lines.
5. **On/Off:** Press the ENTER key to turn it on.

**Adjust [optional]:** Under Contour Density, select High, Medium or Low. Press the ENTER Key.

## Set the Contour Lines to Visible (Legacy Chart Cards)

---

Turn on **Contour Intervals** to display contour lines on the Chart View. Adjust the Contour Intervals slider to set the distance between each contour line [optional]. A larger interval will display fewer contour lines on the chart. A lower interval will display more contour lines on the chart. Contour Intervals must be turned on to use Follow the Contour navigation.

### Touch Screen

1. Open Chart View.
2. Tap Chart in the status bar.
3. Select Chart Options > Humminbird Settings.
4. Select Contour Intervals.
5. **On/Off:** Tap the on/off button to turn it on.

**Adjust [optional]:** Drag the slider, or press and hold the slider, to adjust the interval setting.

### Keypad

1. Open Chart View.
2. Press the MENU key.
3. Select Chart Options > Humminbird Settings.
4. Select Contour Intervals.
5. **On/Off:** Press the ENTER key to turn it on.

**Adjust [optional]:** Turn the Rotary dial, or press and hold the ENTER key, to adjust the interval setting.

## Start Follow the Contour/Shoreline Navigation

You can start Advanced GPS Navigation if the boat position is within 1/4 mile of the selected contour/shoreline. During navigation, the direction can be changed using Reverse under the Follow the Contour/Follow the Shoreline menu.

**CAUTION!** 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 contour/shoreline. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

**NOTE:** If you cannot select a contour because it is displayed under AutoChart Live or Bottom Layer, see **Follow Bottom Hardness or Vegetation**.

### 1. Select a Contour Line in the Chart View

#### Touch Screen

1. Press and hold a position on a contour line.
2. Select Go To > Follow the Contour.

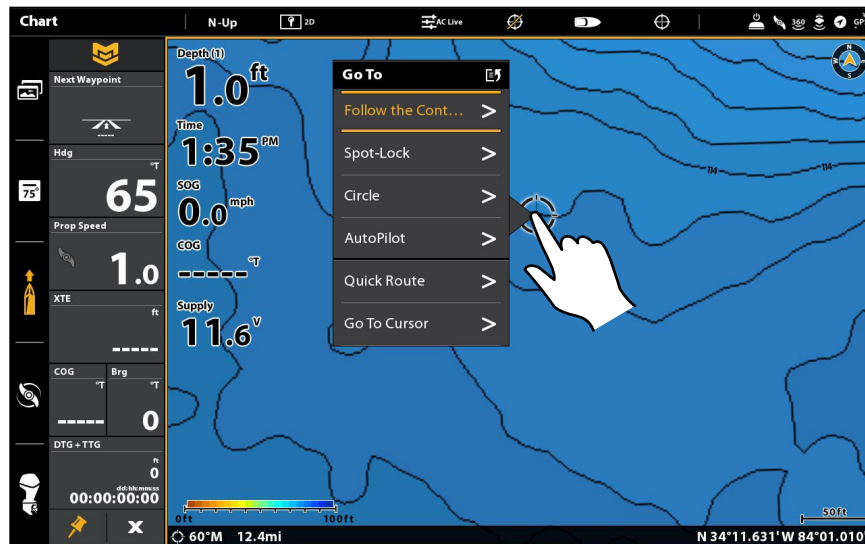
Proceed to **Set the Contour Offset**.

#### Keypad

1. Use the Joystick to move the cursor to select a contour line.
2. Select Go To > Follow the Contour.

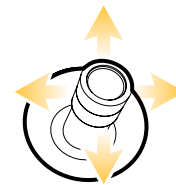
Proceed to **Set the Contour Offset**.

#### Selecting a Contour Line



Press and Hold to Select

OR



Select

## 2. Set the Contour Offset

You can set Contour Offset to maintain a set distance from a contour line. Contour Offset is a distance setting only, and does not measure water depth. Input the Contour Offset based on your knowledge of the water depth in your current area.

If you have an AutoChart ZeroLine Map Card, and want to navigate along a bank or shoreline, use Contour Offset to maintain a safe distance from the shoreline.

Contour Offset can be adjusted while Follow the Contour navigation is in progress by selecting Contour Offset from the Go To menu.

### Touch Screen

1. From the Cursor menu, select Go To.
2. Select Follow the Contour.
3. Select Contour Offset. Drag the slider, or press and hold the slider, to adjust the setting.

To remove the offset, set the offset to 0 [off].

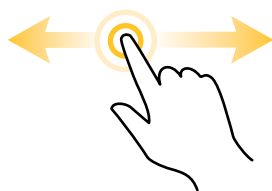
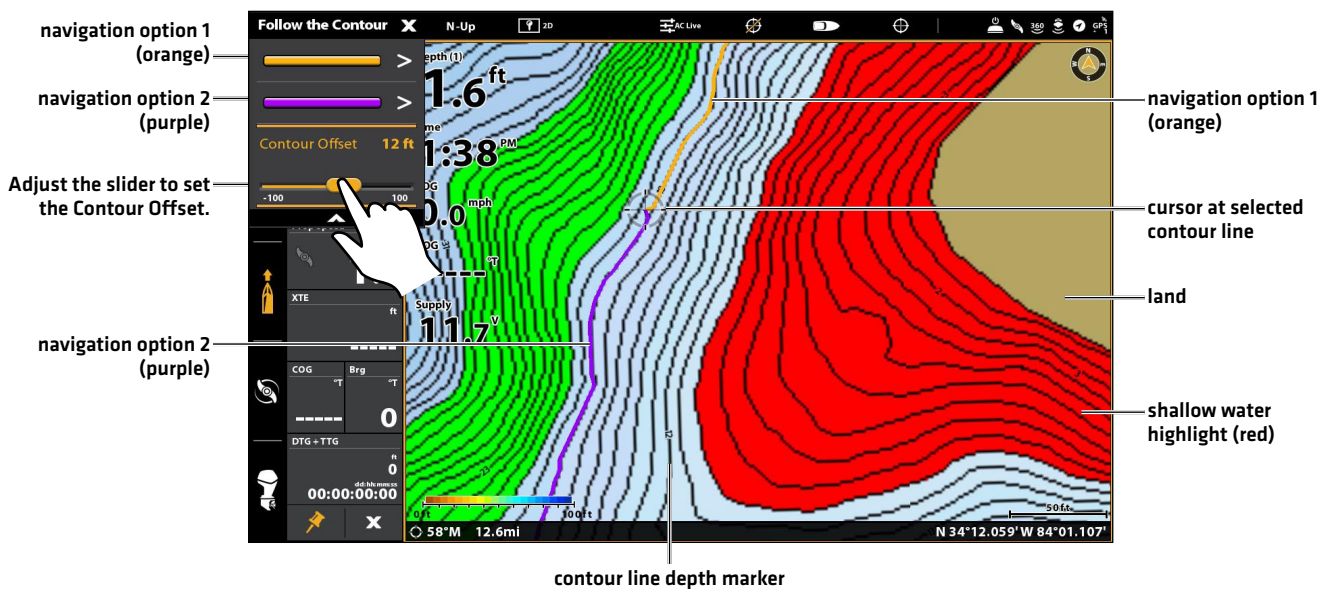
### Keypad

1. Press the GO TO key.
2. Select Follow the Contour.
3. Select Contour Offset. Turn the Rotary dial, or press and hold the ENTER key, to adjust the setting.

To remove the offset, set the offset to 0 [off].

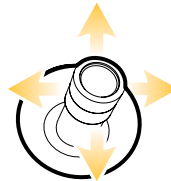
**⚠ WARNING!** Contour Offset does NOT account for changes in water depth. It is important to be aware of depth variations in your current location and selected navigation route, and adjust the Contour Offset as needed.

### Starting iTrack Recording



Press and Hold  
OR Drag the Slider

OR



Select



Turn to Adjust Setting

### 3. Start Follow the Contour Navigation

**WARNING!** If any depth sounding within the selected contour line is below 5 feet (1.5 meters), a confirmation box will display. Select Confirm to confirm the depth warning and start navigation. Select Cancel to cancel Follow the Contour navigation.

**CAUTION!** 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 contour. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

#### Touch Screen

1. From the Follow the Contour submenu, select a navigation direction. The navigation direction will be previewed in orange or purple on the chart.
2. To start navigation, turn on the trolling motor prop.

The selected contour line will turn to black. A gray line will also be displayed indicating the projected route and will reflect the Contour Offset setting.

**Reverse:** During navigation, tap Chart in the status bar. Select Go To > Reverse.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

#### Keypad

1. From the Follow the Contour submenu, select a navigation direction. The navigation direction will be previewed in orange or purple on the chart.
2. Press the ENTER key.
3. To start navigation, turn on the trolling motor prop.

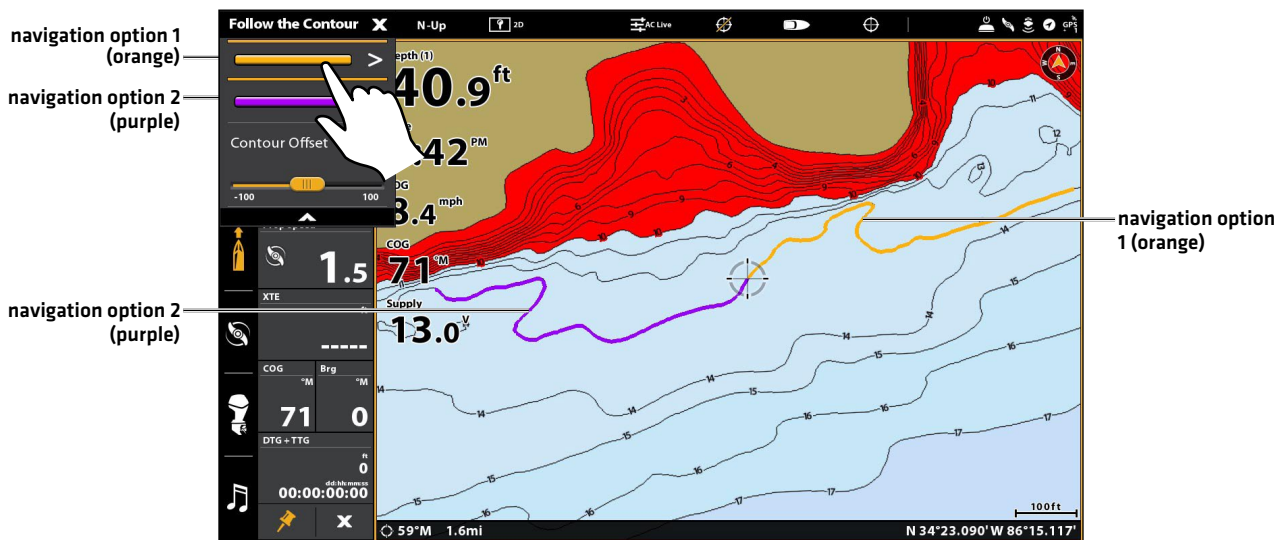
The selected contour line will turn to black. A gray line will also be displayed indicating the projected route and will reflect the Contour Offset setting.

**Reverse:** During navigation, press the GO TO key and select Reverse.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.

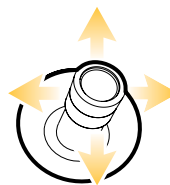
**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

#### Selecting the Navigation Direction to Start Follow the Contour Navigation



Tap to Select

OR



Select



Confirm

## Follow the Contour Navigation



## Adjust the Contour Offset During Navigation

The Contour Offset can be adjusted while Follow the Contour navigation is in progress.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Follow the Contour.
3. Select Contour Offset. Drag the slider, or press and hold the slider, to adjust the setting.

To remove the offset, set the offset to 0 [off].

### Keypad

1. Press the GO TO key.
2. From the Go To menu, select Follow the Contour.
3. Select Contour Offset. Turn the Rotary dial, or press and hold the ENTER key, to adjust the setting.

To remove the offset, set the offset to 0 [off].

**WARNING!** Contour Offset does NOT account for changes in water depth. It is important to be aware of depth variations in your current location and selected navigation route, and adjust the Contour Offset as needed.

## Reverse Direction During Follow the Contour Navigation

If you are navigating a contour line, you can quickly change the navigation direction by selecting Reverse.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Reverse.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Reverse.
3. Press the ENTER key.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.

**CAUTION!** 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 contour. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Follow Bottom Hardness or Vegetation

If you have saved Bottom Layer data [with AutoChart Live] on your fish finder or installed an AutoChart ZeroLine Map Card, you can navigate the selected Bottom Hardness or Vegetation Layer. The selected starting point must be within 1/4 mile of the selected bottom layer. For more information about AutoChart Live, see your Humminbird operations manual.

### Open the AutoChart Live Menu

Use the following instructions to open the AutoChart Live menu and display your saved map on the Chart View.

#### Touch Screen

1. Tap Chart in the status bar.
2. Select AutoChart Live.
3. **Show/Hide the Layer:** Select AutoChart Live. Tap the menu name to add a check mark to the box. [check mark = visible, blank = hidden]

**Adjust the Transparency:** Drag the slider, or press and hold the slider.

#### Keypad

1. Press the MENU key.
2. Select AutoChart Live.
3. **Show/Hide the Layer:** Select AutoChart Live. Press the ENTER key to add a check mark to the box. [check mark = visible, blank = hidden]

**Adjust the Transparency:** Turn the Rotary dial, or press and hold the ENTER key.

### Show Bottom Hardness

Use the following instructions to display the Bottom Hardness layer and adjust the display settings.

#### Touch Screen

1. From the AutoChart Live menu, select Bottom Hardness.
2. **Show/Hide the Layer:** Select Hardness Layer. Tap the menu name to add a check mark to the box. [check mark = visible, blank = hidden]

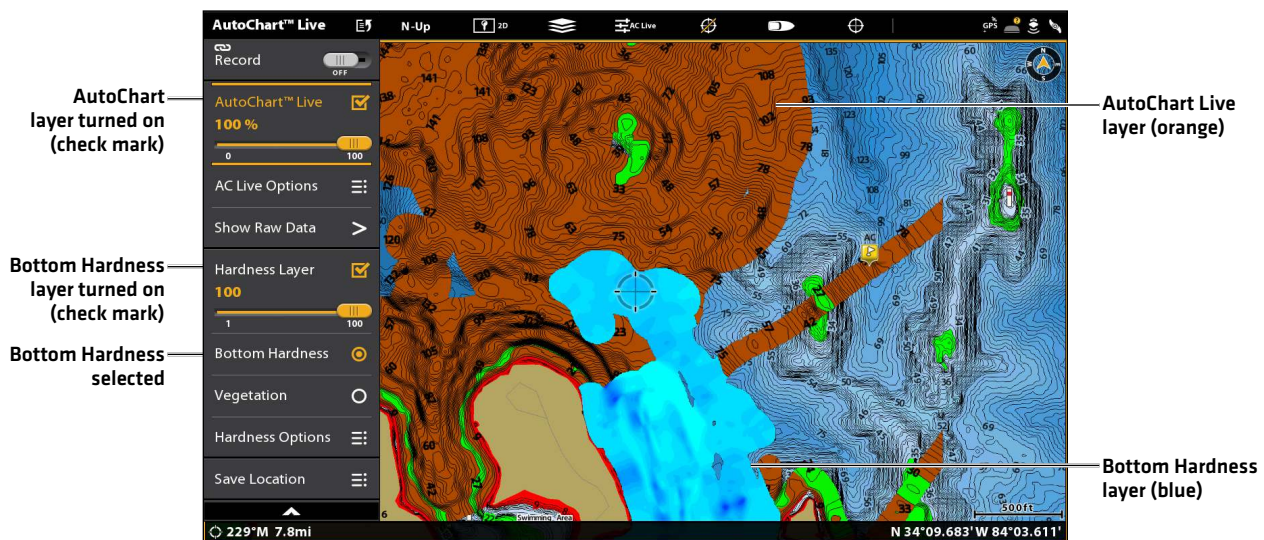
**Adjust the Transparency:** Drag the slider, or press and hold the slider.

#### Keypad

1. From the AutoChart Live menu, select Bottom Hardness.
2. **Show/Hide the Layer:** Select Hardness Layer. Press the ENTER key to add a check mark to the box. [check mark = visible, blank = hidden]

**Adjust the Transparency:** Turn the Rotary dial, or press and hold the ENTER key.

#### Displaying Bottom Hardness on the Chart View





## Follow Bottom Hardness

You can start Advanced GPS Navigation if the boat position is within 1/4 mile of the selected Bottom Hardness layer.

### Touch Screen

1. Press and hold a position on the Bottom Hardness layer.
2. Select Go To > Follow the Contour.
3. **Adjust the Offset [optional]:** Select Contour Offset. Drag the slider, or press and hold the slider.

To remove the offset, set the offset to 0 [off].

4. Select a navigation direction from the submenu.

The navigation direction is previewed in yellow or purple on the Chart View.

**Reverse:** During navigation, tap Chart in the status bar. Select Go To > Reverse.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Use the Joystick to move the cursor to a position on the Bottom Hardness layer.
2. Press the GO TO key.
3. Select Follow the Contour.
4. **Adjust the Offset [optional]:** Select Contour Offset. Turn the Rotary dial, or press and hold the ENTER key.
5. Select a navigation direction from the submenu.

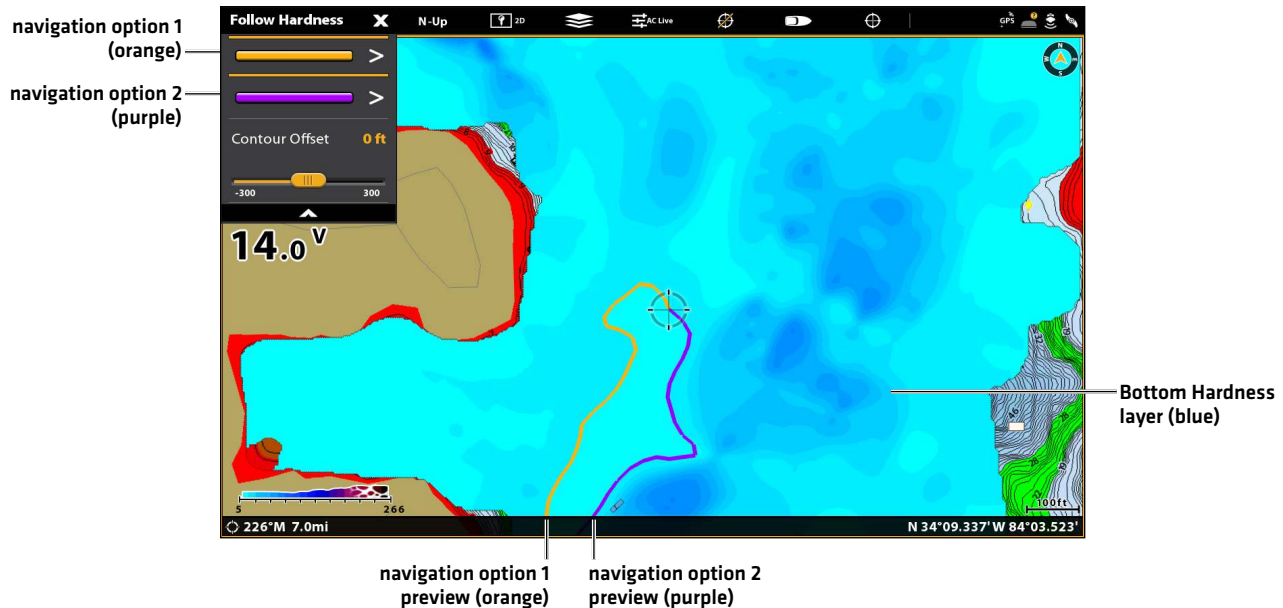
The navigation direction is previewed in yellow or purple on the Chart View.

**Reverse:** During navigation, press the GO TO key and select Reverse.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.

**CAUTION!** 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 bottom hardness layer. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

### Selecting a Navigation Direction to Start Follow Bottom Hardness



## Show Vegetation

---

Use the following instructions to display the Vegetation layer and adjust the display settings.

### Touch Screen

1. From the AutoChart Live menu, select Vegetation.
2. **Show/Hide the Layer:** Select Vegetation Layer. Tap the menu name to add a check mark to the box. [check mark = visible, blank = hidden]

**Adjust the Transparency:** Drag the slider, or press and hold the slider.

### Keypad

1. From the AutoChart Live menu, select Vegetation.
2. **Show/Hide the Layer:** Select Vegetation Layer. Press the ENTER key to add a check mark to the box. [check mark = visible, blank = hidden]

**Adjust the Transparency:** Turn the Rotary dial, or press and hold the ENTER key.

## Follow Vegetation

---

You can start Advanced GPS Navigation if the boat position is within 1/4 mile of the selected Vegetation layer.

### Touch Screen

1. Press and hold a position on the Vegetation layer.
2. Select Go To > Follow the Contour.
3. **Adjust the Offset [optional]:** Select Contour Offset. Drag the slider, or press and hold the slider.

To remove the offset, set the offset to 0 [off].

4. Select a navigation direction from the submenu.

The navigation direction is previewed in yellow or purple on the Chart View.

**Reverse:** During navigation, tap Chart in the status bar. Select Go To > Reverse.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Use the Joystick to move the cursor to a position on the Vegetation layer.
2. Press the GO TO key.
3. Select Follow the Contour.

4. **Adjust the Offset [optional]:** Select Contour Offset. Turn the Rotary dial, or press and hold the ENTER key.

To remove the offset, set the offset to 0 [off].

5. Select a navigation direction from the submenu.

The navigation direction is previewed in yellow or purple on the Chart View.

**Reverse:** During navigation, press the GO TO key and select Reverse.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**CAUTION!** 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 vegetation layer. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

## Adjust the Contour Offset During Navigation

The Contour Offset can be adjusted while Follow the Contour navigation is in progress.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Follow the Contour.
3. Select Contour Offset. Drag the slider, or press and hold the slider, to adjust the setting.

**To remove the offset**, set the offset to 0 [off].

### Keypad

1. Press the GO TO key.
2. From the Go To menu, select Follow the Contour.
3. Select Contour Offset. Turn the Rotary dial, or press and hold the ENTER key, to adjust the setting.

**To remove the offset**, set the offset to 0 [off].



**WARNING!** Contour Offset does NOT account for changes in water depth. It is important to be aware of depth variations in your current location and selected navigation route, and adjust the Contour Offset as needed.

## Reverse Direction

If you are following vegetation or bottom hardness, you can quickly change the navigation direction by selecting Reverse.

### Touch Screen

1. Tap Chart in the status bar. Select Go To.
2. Select Reverse.

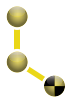
### Keypad

1. Press the GO TO key.
2. Select Reverse.
3. Press the ENTER key.




**CAUTION!** Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat per the command. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].


# ROUTES

 **Routes** link two or more points together to create a path for navigation. A route represents your intended navigation and shows the shortest path from each data point to the next. The distance between each route point is a route leg. You can save up to 200 routes on your fish finder.

Advanced GPS Navigation can start on the route if the boat position is within 1/4 mile of the first waypoint in the route.

 **Route Points** are stored latitude/longitude positions that connect to form route navigation.

 **Route Start Point**

 **Route End Point**



**WARNING!** Watch for a turning propeller and be prepared for boat movement when working with routes. If Prop Auto On is turned on, the propeller will automatically turn on when a route is navigated, even if the engagement is accidental. A turning propeller can cause injury. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].



**WARNING!** You should always be aware of your surroundings and watch for any potential obstacles.



**NOTE:** For more information about routes, see your Humminbird operations manual.

## Quick Route Navigation

A Quick Route allows you to connect route points and waypoints and start navigation immediately. A Quick Route can be started with the GO TO key or with the touch screen. Quick Routes can be saved or discarded. To create a saved route, see **Create a Saved Route or Manage Your Advanced GPS Navigation Data**.

## Start Quick Route Navigation

### Touch Screen

1. Tap Chart in the status bar. Select Go To.

**OR**

Tap the Go To button on the trolling motor virtual remote.

2. Select Quick Route.
3. Tap the chart in the positions where you want to mark a route point.

**Undo Last Route Point:** Tap the Back icon.

**Cancel Route Creation:** Tap the X icon.

4. **Confirm:** Tap the check icon in the status bar.
5. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

1. Press the GO TO key.
2. Select Quick Route.
3. Use the Joystick to move the cursor to a position or waypoint. Press the Joystick to mark the first route point.
4. Repeat Step 3 to connect more than one route point.

**Undo Last Route Point:** Press the EXIT key once.

**Cancel Route Creation:** Press and hold the EXIT key.

5. **Confirm:** Press the ENTER key.

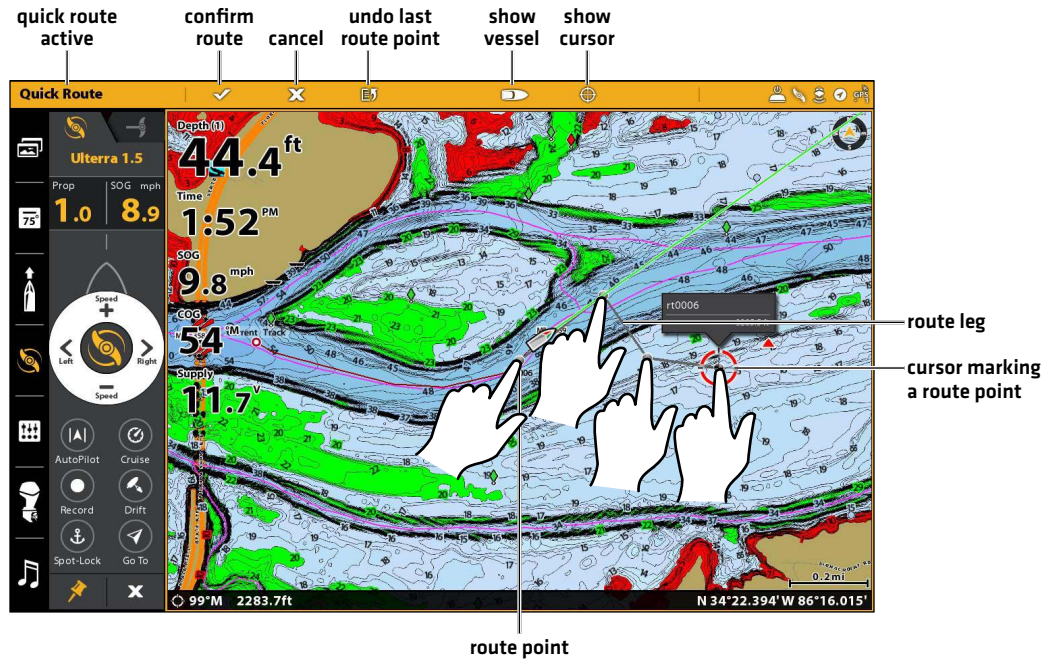
6. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Marking Route Points with the Touch Screen



Tap to Mark Route Points

## Create a Saved Route

The instructions in this section allow you to create a route in the Chart View and save it for navigation later. The steps are similar to creating a Quick Route, but you use the Mark menu to start.

- **Save Location:** The route is saved to the Nav Data tool.
- **Navigation:** To start navigation on the route, see *Navigate a Saved Route*.
- **Overlay:** To display saved routes on the Chart View, press the MENU key once. Select Chart Options > Overlays > Nav Data > Routes [Saved].

### Touch Screen

1. Tap Chart in the status bar. Select Mark.
2. Select Route.
3. Tap the screen in the positions where you want to mark a route point.

**Undo Last Route Point:** Tap the Back icon.

**Cancel Route Creation:** Tap the X icon.

4. To save the route, tap the Check icon in the status bar.

### Keypad

1. Press the MARK key.
2. Select Route.
3. Use the Joystick to move the cursor to a position or waypoint. Press the Joystick to mark the first route point.
4. Repeat Step 3 to connect more than one route point.

**Undo Last Route Point:** Press the EXIT key once.

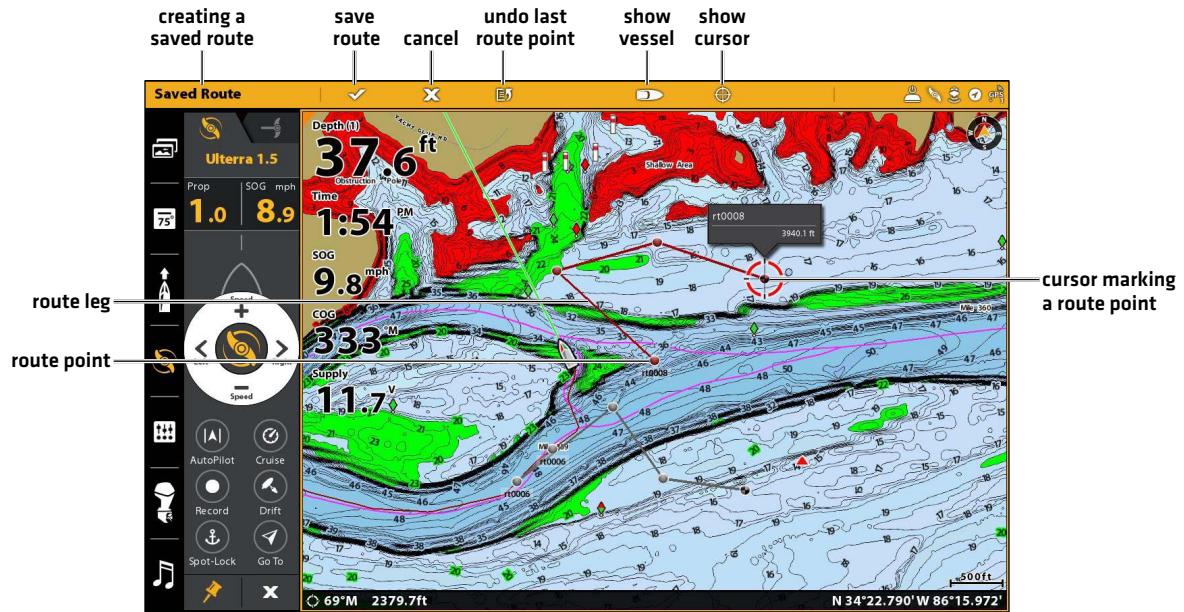
**Cancel Route Creation:** Press and hold the EXIT key. Select Discard, and press the ENTER key.

5. To save the route, press the ENTER key.

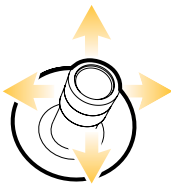


**NOTE:** If the position you select is also a Contour Line, a submenu will open with related menu options. To add the position to the route, select Go To Position.

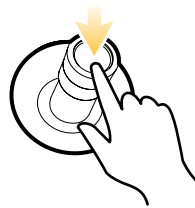
## Creating a Saved Route with the Keypad



Open Mark Menu



Move Cursor Position



Mark Route Point



Save

## Save the Current Route

### Touch Screen

1. Tap a route point on the chart.
2. Tap the Route Name.
3. Use the Route Info menu to edit the route name, color, and more [see *Manage Your Advanced GPS Navigation Data* for more information].
4. **Close:** Tap the X icon.

### Keypad

1. Use the Joystick to move the cursor to a route point on the chart.
2. Press the ENTER key.
3. Use the Route Info menu to edit the route name, color, and more [see *Manage Your Advanced GPS Navigation Data* for more information].
4. **Close:** Press the EXIT key.

## Navigate a Saved Route

Use the cursor to select a saved route point on the Chart View, and you can start navigation to it. Advanced GPS will navigate the route in forward or reverse, depending on your selection.

### Touch Screen

1. Tap a waypoint icon or route point.
2. Tap Chart in the status bar. Select Go To.

OR

Tap the Go To button on the trolling motor virtual remote.

3. Select Go To: Route or Go To: Point.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation.

### Keypad

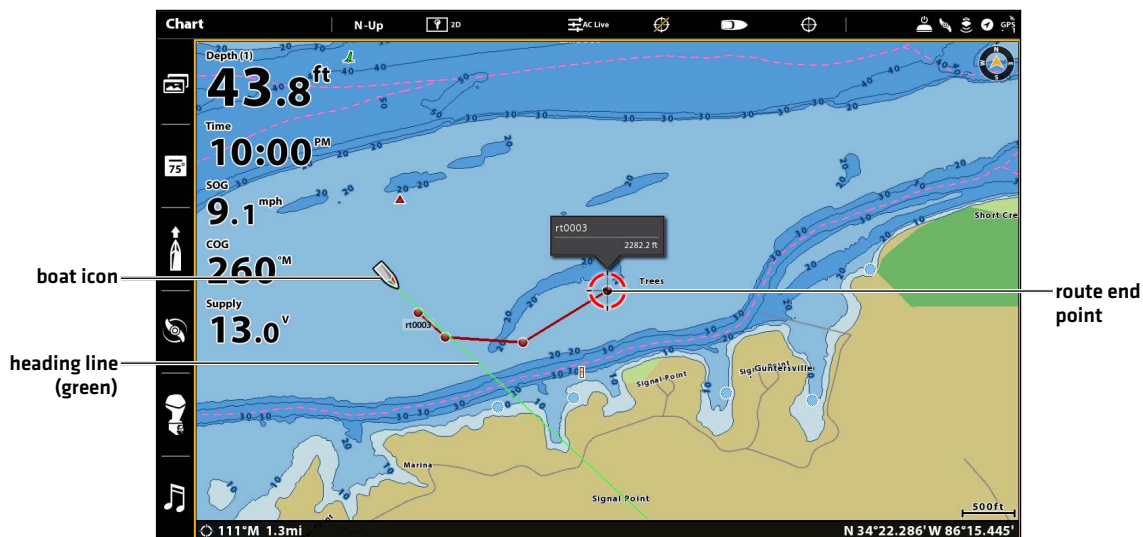
1. Use the Joystick to move the cursor to a waypoint or route point.
2. Press the GO TO key.
3. Select Go To: Route or Go To: Point.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation.



**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

### Navigating a Saved Route on the Chart View



## Cancel Route Navigation

1. Tap Chart in the status bar. Select Go To.

OR

Press the GO TO key.

2. Select **Cancel Navigation**.



**NOTE:** If you start another mode of navigation, Navigate Route will disengage automatically. Except Spot-Lock, which if engaged, Route navigation will be paused instead of disengaged. See **Spot-Locks: Resume Advanced GPS Navigation [Spot-Lock Pause]**.



# AUTOPILOT

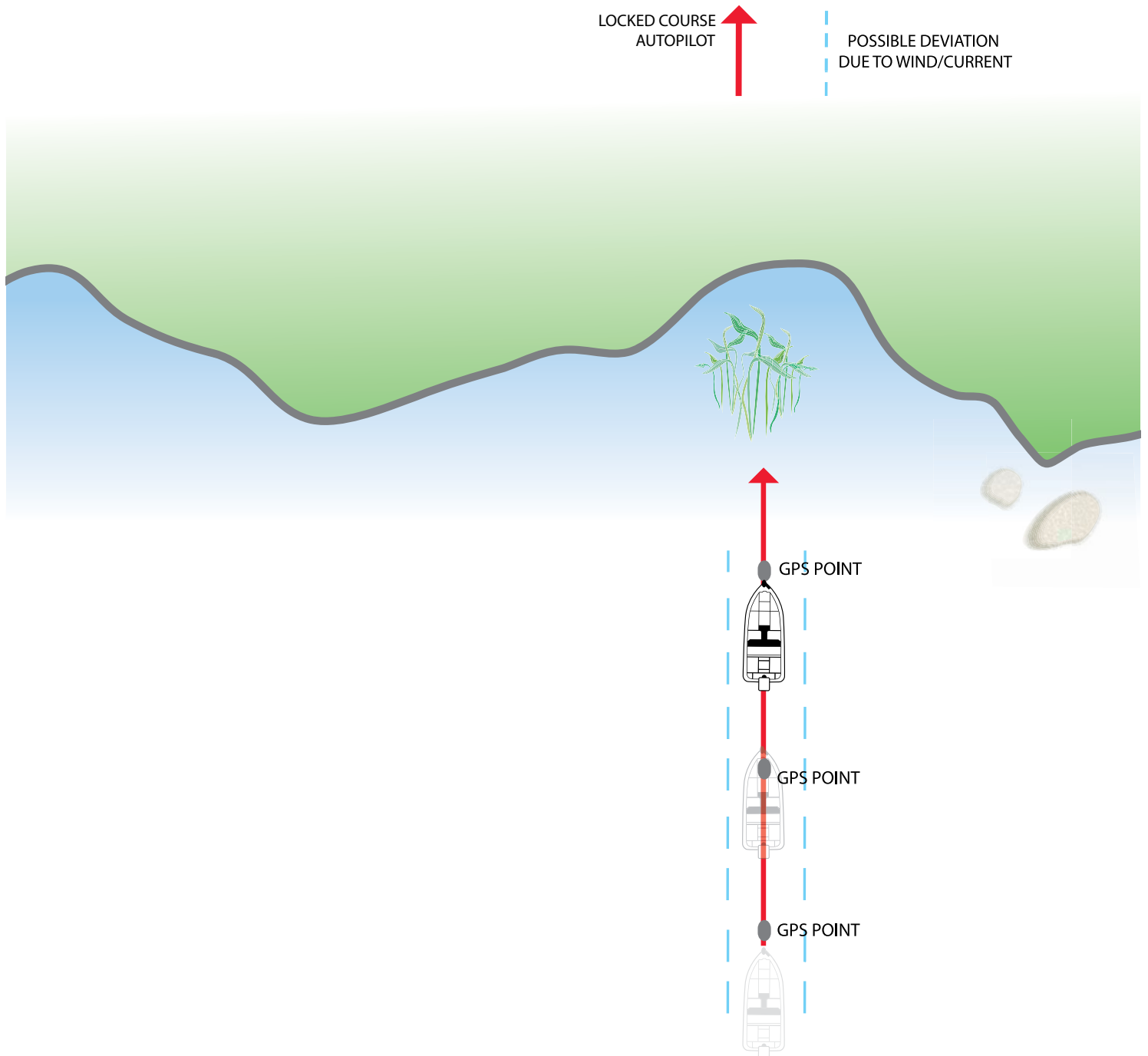
Two versions of AutoPilot are available: Locked Course AutoPilot and Locked Heading AutoPilot. There are distinct differences between the two AutoPilots and how they control your boat. See below for details.



**NOTE:** See your Humminbird operations manual for AutoPilot setup instructions.

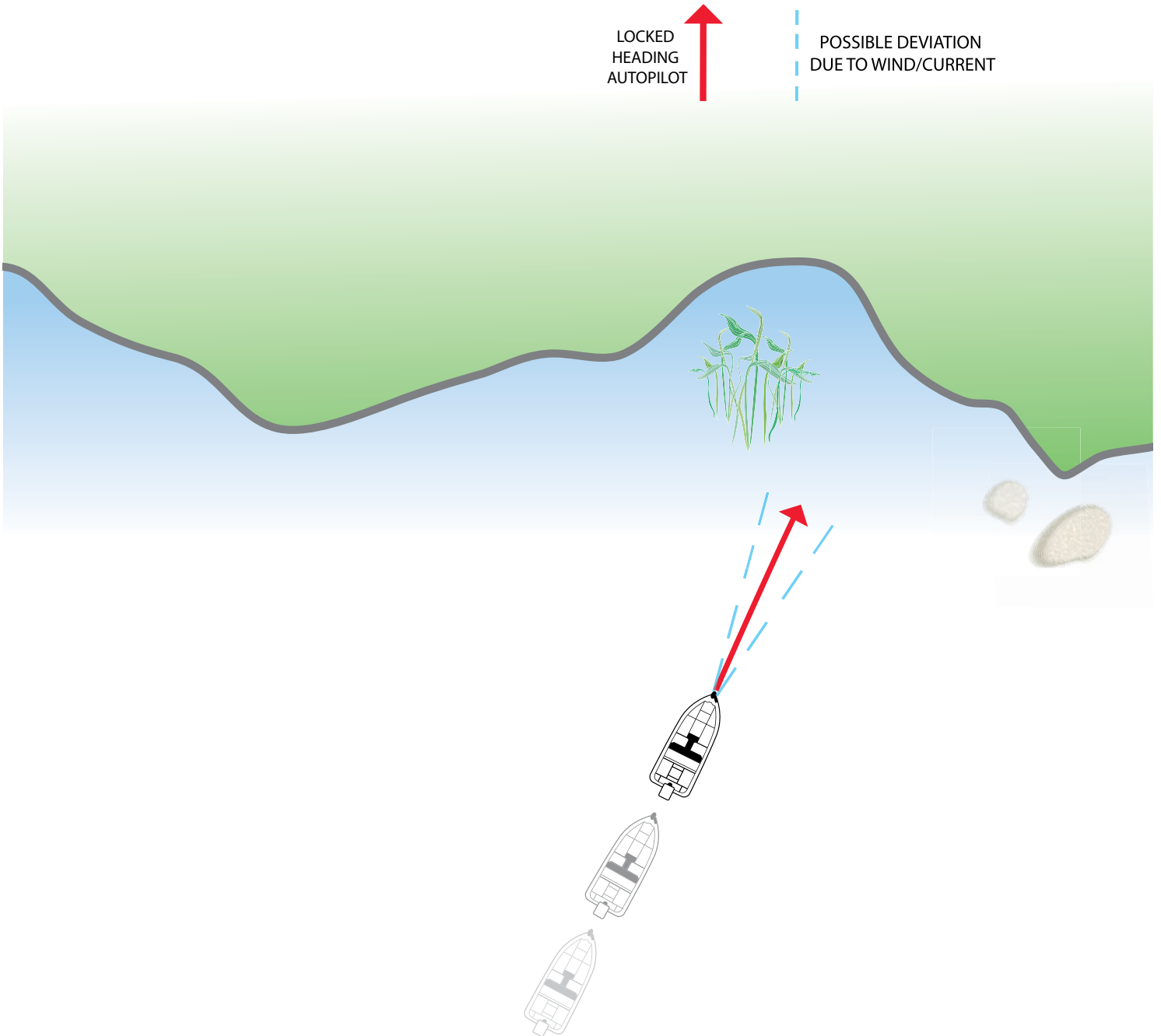
## Locked Course AutoPilot

**Locked Course AutoPilot** not only uses compass heading but also GPS data to correct for cross winds, current and other external forces to keep the boat on the intended course. When Locked Course AutoPilot is turned on, it creates a course that it will follow. When you steer to a new heading, a new course is created. Locked Course AutoPilot will keep the boat on the course in most conditions. When very extreme conditions exist, such as very strong winds or current, the trolling motor may not have enough power to control the boat smoothly. In these extreme cases it may be best to use Locked Heading AutoPilot and let the boat move with the wind or current if the motor is not powerful enough to overcome it.



## Locked Heading AutoPilot

**Locked Heading AutoPilot** uses an internal compass to provide heading lock. When Locked Heading AutoPilot is on, it keeps the motor pointed in the same compass direction. If a manual steering correction is made, Locked Heading AutoPilot locks onto the new compass heading to which the boat was steered. This method of heading tracking does not take into account external forces, such as side winds or currents, which can allow side drift.



## How to Determine When to Use Locked Course and When to Use Locked Heading

With all the external variables, this question can be difficult to answer. Both AutoPilots have their benefits based on the type of fishing and bait presentation desired.

- **Locked Course AutoPilot** will keep the boat on a true straight path in most conditions. When very extreme conditions exist, such as strong winds or current, the trolling motor may not have enough power to control the boat smoothly. In these extreme cases, it may be best to use Locked Heading AutoPilot and let the boat move with the wind or current if the motor is not powerful enough to overcome it.
- **Locked Heading AutoPilot** helps you maintain a constant heading, but does not compensate for winds or currents.


Both Locked Course AutoPilot and Locked Heading AutoPilot are valuable tools the fisherman can use for accurate and precise bait presentation. We highly recommend getting on the water and trying both Locked Course AutoPilot and Locked Heading AutoPilot in various fishing situations and applications. With experimentation and time, you will find which AutoPilot works best for you in a given situation.


## Using AutoPilot with Other Advanced GPS Functions

AutoPilot can be used in combination with Cruise Control and while recording an iTrack. If another mode of navigation that controls steering is enabled while AutoPilot is enabled, AutoPilot will disable automatically.


## AutoPilot Overview

When a route is started from the fish finder, it will communicate with the autopilot to tell it which way to turn to get on course. The AutoPilot Navigation menu must be turned on to enable this feature on the Humminbird fish finder.


 **WARNING!** It is the operator's responsibility to make prudent decisions regarding personal safety and the operation of the vessel. Do NOT leave the autopilot unattended while it is steering the vessel. Watch for obstacles and potential hazards at all times. Be prepared to respond to changing conditions and take manual control of the vessel as required.

 **WARNING!** Do NOT use the autopilot where there may be shallow water, obstacles, or when manual navigation is required, especially in the following situations:


- while navigating or maneuvering in shallow waters or dangerous seabeds,
- while entering or exiting harbor, mooring, or setting sail,
- while traveling at high speed,
- in heavy traffic areas, near breakwaters, canals,
- or while encountering any potential obstacles.

 **WARNING!** Watch for a turning propeller and be prepared for boat movement when working with AutoPilot. If Prop Auto On is turned on, the propeller will automatically turn on when AutoPilot is engaged, even if the engagement is accidental. A turning propeller can cause injury. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

 **WARNING!** To cancel AutoPilot navigation, you must select Cancel Navigation and then turn the propeller off. The propeller does not automatically turn off when navigation is canceled. See **Propeller Controls** for more details.

 **CAUTION!** Advanced GPS Navigation uses a magnetic compass to detect direction of travel. The compass can be adversely affected by magnets or large, ferrous metal objects near [within 24" of] the trolling motor control head.

Obstructions on the propeller may cause excessive vibration of the motor head. This vibration can cause the compass to wander and erratic steering to occur. Clear the obstruction to return the motor to normal operation.

 **NOTE:** When AutoPilot is on and the trolling motor is pulled out of the water to the stow position, the steering motor will continue to run. Turn off AutoPilot to stop the motor. If AutoPilot is left on, the steering motor will shut off automatically after 8 seconds. The motor should not be stored in this condition for long periods as power is still being applied to all electronics. Always turn AutoPilot off and disconnect your motor from the battery when storing your motor.

## Confirm Trolling Motor Navigation Is Enabled

Use the following instructions to confirm Trolling Motor Navigation is enabled. The AutoPilot must be set up correctly with the Humminbird fish finder when it is first installed; refer to your Humminbird operations manual for more information.



**NOTE:** See **Configure Advanced GPS with the Fish Finder: Enable Trolling Motor Navigation** for more details.

1. Press the HOME key.
2. Select Settings.
3. Under Settings, select Navigation > Trolling Motor Navigation.
4. Tap the on/off button, or press the ENTER key, to turn it on.

## Set the AutoPilot Mode

1. Press the HOME key.
2. Select Settings > Navigation.
3. Under Trolling Motor Options, select AutoPilot Mode.
4. Tap, or press the ENTER key, to open the AutoPilot submenu.
5. Select Locked Heading or Locked Course.



**When Locked Heading AutoPilot Mode is selected**, the blue icon is displayed in the Trolling Motor data bar on the Chart View.

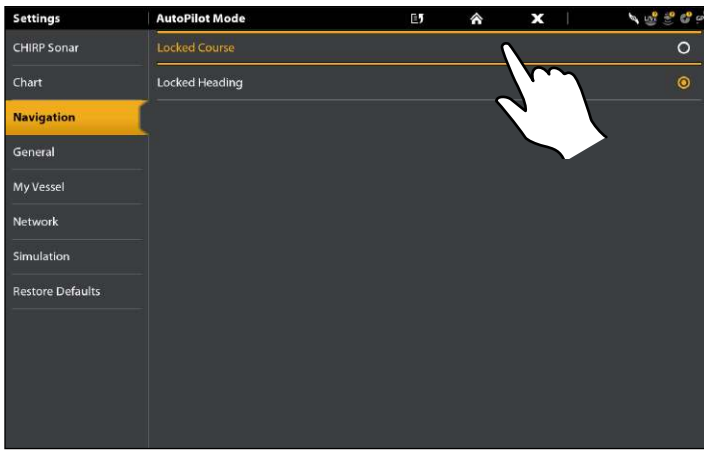


**When Locked Course AutoPilot Mode is selected**, the yellow icon is displayed in the Trolling Motor data bar on the Chart View.

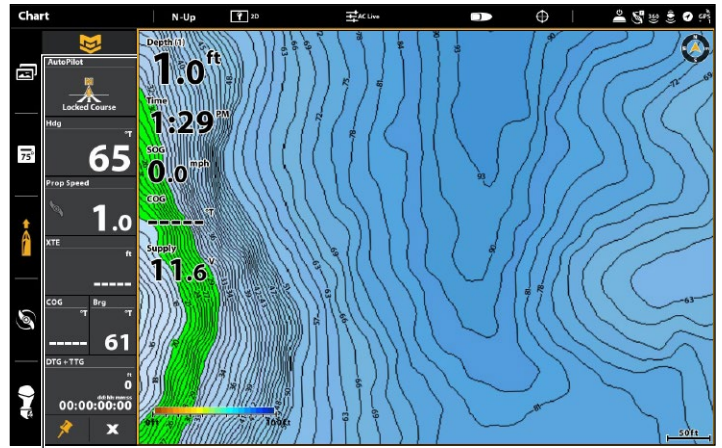


**NOTE:** For more information about the Trolling Motor data bar, see **Display the Trolling Motor Navigation Data Bar**.

## Selecting the AutoPilot Mode



## Viewing the AutoPilot Navigation Mode in the Trolling Motor Data Bar

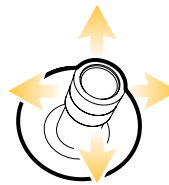


Locked Course AutoPilot mode icon



Tap to Select

OR



Select



Confirm

## Start AutoPilot Towards the Cursor Position

Use the cursor to set the heading for AutoPilot navigation. Advanced GPS will start navigation and maintain a constant heading towards the cursor position.

**CAUTION!** 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 cursor position. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

### Touch Screen

1. Open Chart View.
2. Press and hold a position on the chart.
3. Select Go To.
4. Select AutoPilot.
5. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation. Then, turn off the trolling motor prop.

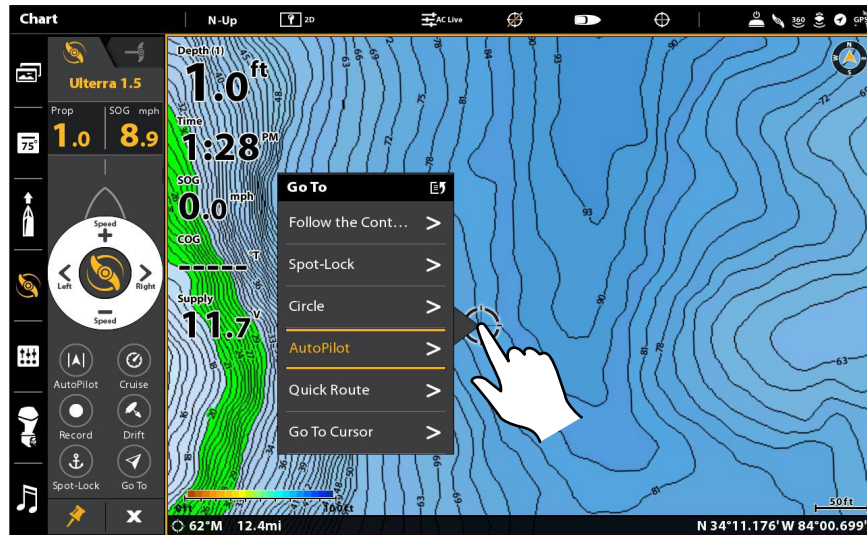
### Keypad

1. Open Chart View.
2. Use the Joystick to move the cursor to a position on the chart.
3. Press the GO TO key.
4. Select AutoPilot. Press the ENTER key.
5. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation. Then, turn off the trolling motor prop.

**NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

## Using the Touch Screen to Start AutoPilot Navigation to the Cursor Position

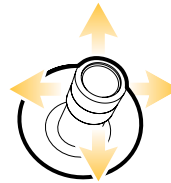


Press and Hold to Open Go To Menu  
Tap to Select

OR



Open Go To Menu




Select




Confirm

## Start AutoPilot Based on the Motor's Heading

When you start AutoPilot navigation without an active cursor, the heading will be based on the trolling motor's heading. AutoPilot continues to navigate the boat in the same direction.

 **CAUTION!** Be prepared for boat movement as the prop will automatically be enabled and the prop speed will automatically adjust to move the boat into position. If the boat does not move, confirm the prop is turned on in the menu system (see **Propeller Controls**).

 **NOTE:** After steering to a new direction, there is a short delay before the direction is locked in to allow the compass to stabilize. When broad speed changes are made, the motor heading may change slightly. This is normal.

### Start AutoPilot Based on the Motor's Heading (Go To Menu)

---

#### Touch Screen

1. Confirm the cursor is not active.
2. Tap Chart in the status bar.
3. Select Go To.
4. Select AutoPilot.
5. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Tap Chart in the status bar. Select Go To > Cancel Navigation. Then, turn off the trolling motor prop.

 **NOTE:** See **Propeller Controls** for more details about turning the prop on or off and setting the prop speed.

#### Keypad

1. Confirm the cursor is not active.
2. Press the GO TO key.
3. Select AutoPilot. Press the ENTER key.
4. To start navigation, turn on the trolling motor prop.

**Cancel Navigation:** Press the GO TO key. Select Cancel Navigation. Then, turn off the trolling motor prop.

### Start AutoPilot Based on the Motor's Heading (Trolling Motor Virtual Remote)

---

#### Touch Screen

1. **Open the trolling motor virtual remote:** Tap the trolling motor icon in the side bar.
2. Tap the Auto Pilot button.
3. To start navigation, turn on the trolling motor prop.

**Adjust Heading:** Tap the RIGHT or LEFT arrow buttons.

**Cancel Navigation:** Tap the Auto Pilot button. Then, turn off the trolling motor prop.

#### Keypad

1. **Open the trolling motor virtual remote:** Press the PANE key. Select the trolling motor icon.
2. Select the Auto Pilot button. Press the CHECK/ENTER key.
3. To start navigation, turn on the trolling motor prop.

**Adjust Heading:** Use the Joystick to select the RIGHT or LEFT arrow button. Press the ENTER key.

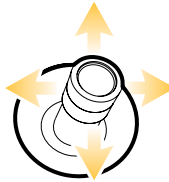
**Cancel Navigation:** Select the Auto Pilot button. Press the ENTER key. Then, turn off the trolling motor prop.

## Starting AutoPilot from the Trolling Motor Virtual Remote



Tap to Start AutoPilot

OR



Select the AutoPilot Button



Start



# MANAGE YOUR ADVANCED GPS NAVIGATION DATA

You can edit iTracks and Spot-Locks using the Nav Data tool in the same way that you can edit other Humminbird navigation data. You can also create new iTracks and Spot-Locks, and you can start navigation to the selected item.

The features that are unique to Advanced GPS are described in this section. To understand how to use the Nav Data tool, see your Humminbird operations manual for complete details.

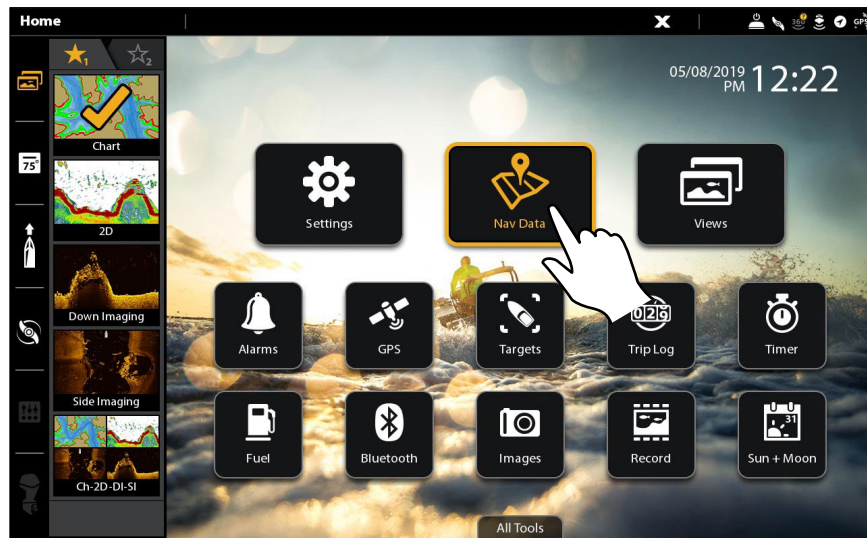
## Open the Nav Data Tool

1. Press the HOME key.
2. Tap the Nav Data tool icon.

**OR**

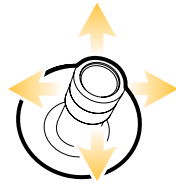
Use the Joystick to select the Nav Data tool icon. Press the ENTER key.

### Opening the Nav Data Tool from the Home Screen



Tap to Open

**OR**



Select



Confirm

**Edit a Saved iTrack**

1. Under Lists, select iTracks.
2. Press and hold an iTrack. Select Info.

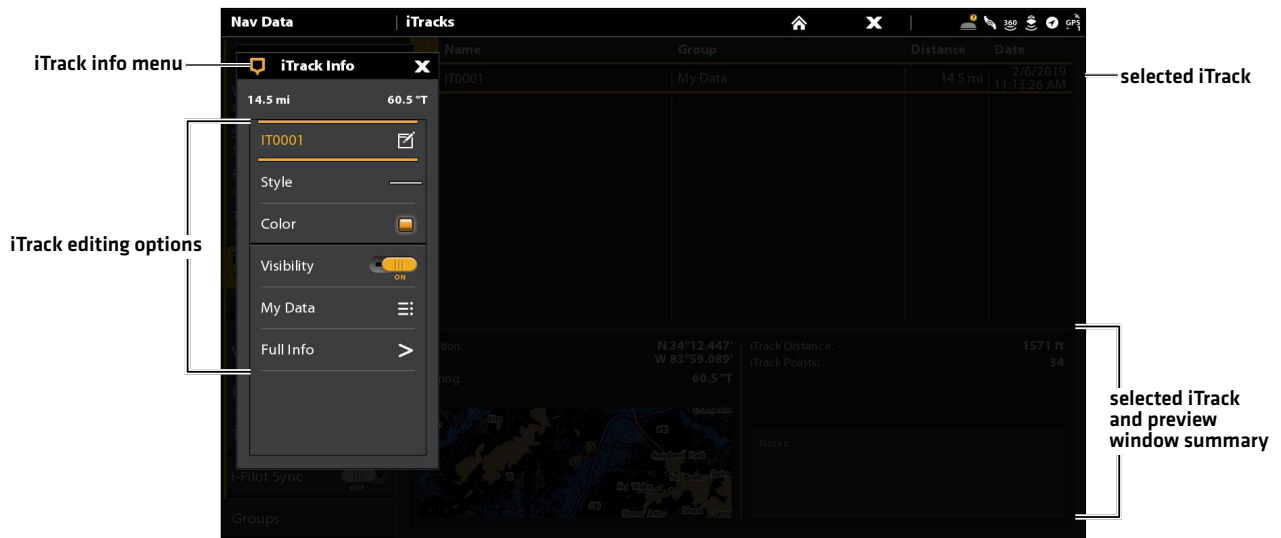
**OR**

Use the Joystick to select an iTrack. Press the ENTER key.

3. Edit the saved iTrack using the options in the iTrack Info menu. To see the complete list of options to edit the iTrack, select Full Info.

<b>iTrack Editing Options (from the Nav Data Tool)</b>	
<b>iTrack Name</b>	Select the iTrack name and use the on-screen keyboard to change it. After renaming the iTrack, select Save.
<b>Style</b>	Select a line style.
<b>Color</b>	Select a color.
<b>Visibility</b>	To display the iTrack on the view, select On. To hide the iTrack on the view, select Off.
<b>My Data [Group Name]</b>	The menu name will vary with the default group name. Select the group name to change where the selected iTrack is saved. See your Humminbird operations manual for more information about groups.
<b>Edit Notes [select Full Info]</b>	Use the on-screen keyboard to add notes about the iTrack.

## Editing an iTrack from the Nav Data Tool




## Delete a Saved iTrack

1. Under iTracks, press and hold an iTrack.

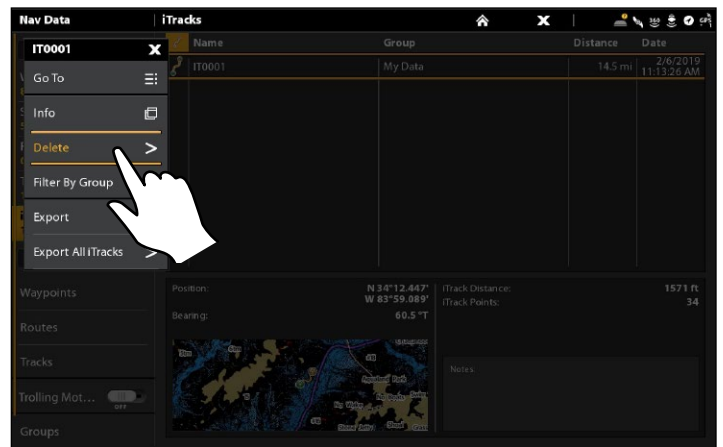
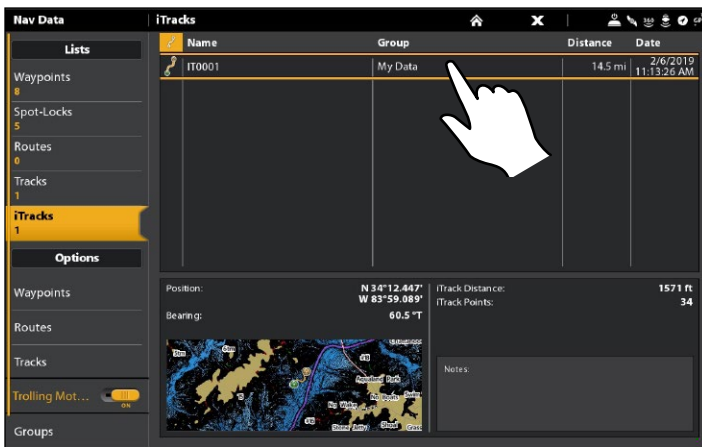
OR

Use the Joystick to select an iTrack. Press the MENU key.

2. Select Delete. Tap, or press the ENTER key, to delete the iTrack.

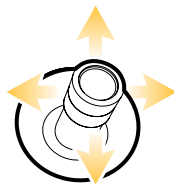
 **NOTE:** You can also delete a saved iTrack from the iTrack Info menu. Select Full Info > Delete iTrack.

## Deleting a Saved iTrack



Press and Hold  
Tap to Select

OR



Select



Open iTrack Menu



Confirm

### Edit a Saved Spot-Lock

1. Under Lists, select Spot-Locks.
2. Press and hold a Spot-Lock. Select Info.

OR

Use the Joystick to select a Spot-Lock. Press the ENTER key.

3. Edit the Spot-Lock using the options in the Waypoint Info menu. To see the complete list of options to edit the waypoint, select Full Info.



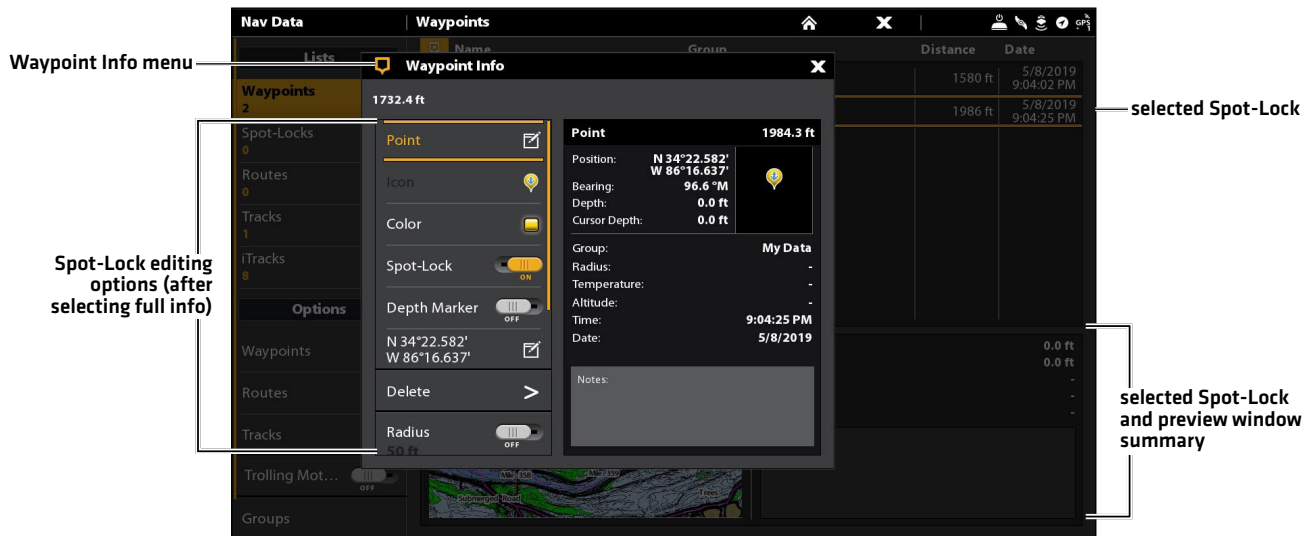
**NOTE:** The Spot-Lock icon cannot be changed.



**WARNING!** If you turn the Spot-Lock off, it will change to a waypoint and lose its Spot-Lock capabilities. However, you can change a waypoint to a Spot-Lock by turning Spot-Lock On.

Spot-Lock Editing Options (from the Nav Data Tool)	
Spot-Lock Name	Select the Spot-Lock name and use the on-screen keyboard to change it. After renaming the Spot-Lock, select Save.
Color	Select a color to represent the Spot-Lock.
Spot-Lock	To disengage Spot-Lock, turn Spot-Lock OFF. This will convert the Spot-Lock to a waypoint.
Depth Marker	If Depth Marker is turned on, the Spot-Lock will disengage and become a waypoint. The waypoint will be displayed as a depth marker on the Chart View. The depth is based on the depth at the vessel position. If the Spot-Lock was marked at the cursor position, the depth will not be saved.
Latitude/Longitude	Use the on-screen keyboard to edit the latitude/longitude position of the waypoint.
Radius	Turn on Radius and set the radius around the Spot-Lock. The Radius is used for Spot-Lock [Waypoint] Avoidance [see <b>Avoidance</b> below]. See the navigation alarms in your Humminbird operations manual.
Avoidance	Add a check mark to the Avoidance box to display the Spot-Lock [Waypoint] Avoidance Radius. Radius must be turned on to display the Avoidance Radius [see <b>Radius</b> above].
Visibility	To display the Spot-Lock on the view, select On. To hide the Spot-Lock on the view, select Off. You can also choose to display the icon or the icon and the Spot-Lock name.
My Data [Group Name]	The menu name will vary with the default group name. Select the group name to change where the selected Spot-Lock is saved. See your Humminbird operations manual for more information about groups.
Edit Depth	Use the on-screen keyboard to enter a depth for the Spot-Lock if it was not marked at the vessel position.
Edit Notes [select Full Info]	Use the on-screen keyboard to add notes about the Spot-Lock.

## Editing a Spot-Lock from the Nav Data Tool (Full Info Menu)



## Delete a Saved Spot-Lock

1. Under Spot-Locks, press and hold a Spot-Lock.

OR

Use the Joystick to select a Spot-Lock. Press the MENU key.

2. Select Delete.

## Export Nav Data

When Trolling Motor Sync is turned on, saved iTracks, Spot-Locks, waypoints, and routes are automatically exported to the trolling motor. Also, whenever you create and save new iTracks, Spot-Locks, waypoints, and routes, they are automatically exported to the trolling motor. Any data saved to the trolling motor will also be transferred to the fish finder. See *Configure Advanced GPS with the Fish Finder: Turn On Trolling Motor Sync*.

The exported data from the fish finder will overwrite the data on the trolling motor.

**WARNING!** Humminbird is not responsible for the loss of data files [waypoints, routes, tracks, groups, recordings, etc.] that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder's data files periodically. Data files should also be saved to your computer before restoring the unit's defaults or updating the software. Visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) to download the operations manual for more information.

## Export Nav Data to an SD Card

Your saved iTracks and Spot-Locks should be backed up periodically, along with your other navigation data [waypoints, routes, tracks]. Export your navigation items to an unlocked, installed SD or microSD card. See your Humminbird operations manual for more details.

**WARNING!** Humminbird is not responsible for the loss of data files [waypoints, routes, tracks, groups, recordings, etc.] that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder's data files periodically. Data files should also be saved to your computer before restoring the unit's defaults or updating the software. Visit our Web site at [humminbird.johnsonoutdoors.com](http://humminbird.johnsonoutdoors.com) to download the operations manual for more information.

**WARNING!** Do NOT leave the SD card slot cover open. The slot cover should always be closed to prevent water damage to the unit.

## Insert an SD or microSD Card

1. Insert an SD or micro SD card with the label facing up.

The top slot is displayed as SD Card [1] in the menu system, and the bottom slot is displayed as SD Card [2].



**WARNING!** Do not leave the SD slot cover open. The slot cover should always be closed to prevent water damage to the unit.

## Export Selected iTracks and Spot-Locks

1. Press the HOME key.
2. Select the Nav Data tool.
3. Under Lists, select iTracks or Spot-Locks.
4. Press and hold an iTrack or Spot-Lock.

**OR**

Use the Joystick to select an iTrack or Spot-Lock. Press the MENU key.

5. Select Export to export the selected iTrack or Spot-Lock.

**OR**

Select Export All iTracks or Export All Spot-Locks.

6. Tap, or press the ENTER key, to confirm the export.

## Export All Navigation Data

1. Press the HOME key.
2. Select the Files tool.
3. Under Export, select Nav Data.
4. **Select a Save Location:** Select the port where the SD card is installed.

All saved navigation data will be exported to the selected location.

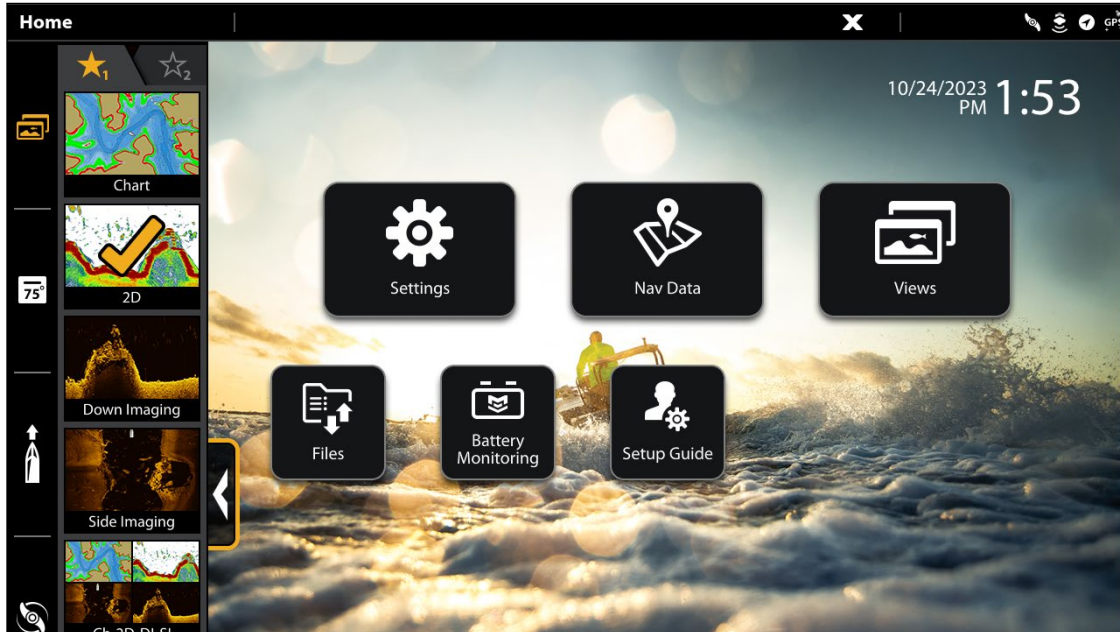
# BATTERY MONITORING

Minn Kota QUEST Series trolling motors provide real-time battery and runtime readings on your Humminbird fish finder.

## Set Up Battery Monitoring

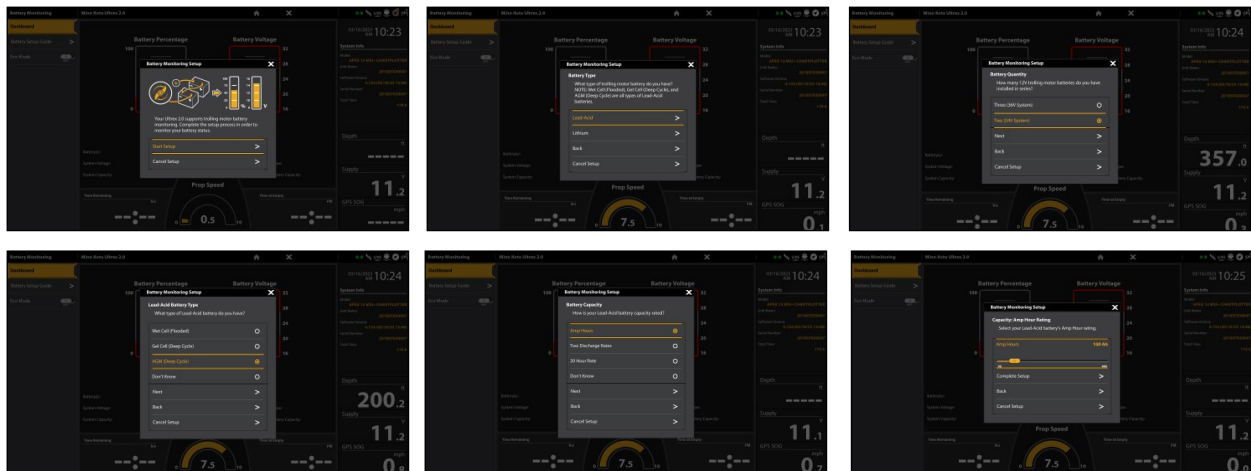
1. Open the Battery Monitoring Tool.

### Battery Monitoring Tool



2. Select Battery Setup Guide.
3. Tap Start Setup. Follow the prompts in the setup.
4. Select the type of trolling motor battery installed: Lead-Acid or Lithium.
5. Select the Battery Quantity: Two [24V System] or Three [36V System].
6. If Lead-Acid battery is selected, next select the type of Lead-Acid battery: Wet Cell [Flooded], Gel Cell [Deep Cycle], AGM [Deep Cycle] or Don't Know.
7. Select the Battery Capacity Type: Amp Hours, Two Discharge Rates, 20 Hour Rate or Don't Know.
8. Use the slider to select the Amp Hours.
9. Select Complete Setup to complete and save the Battery Setup.

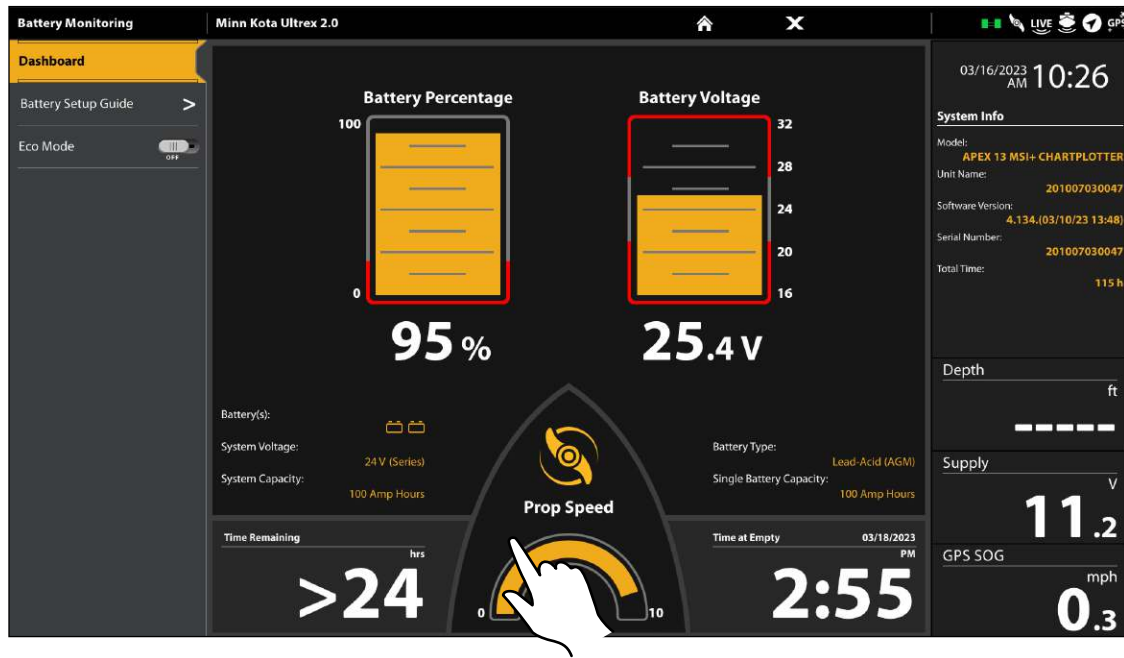
### Battery Monitoring Setup



## Open Battery Monitoring View

1. Open the Battery Monitoring Tool.
2. View the Battery Percentage and Battery Voltage.

### Battery Monitoring Dashboard



## Eco Mode

Eco mode saves battery life by limiting thrust. This feature is only available on QUEST Series motors. Eco mode is turned off by default.

### Turn Eco Mode On/Off from the Battery Monitoring Dashboard

1. Open the Battery Monitoring Tool.
2. Select Eco Mode, and tap to toggle Eco Mode On or Off.
3. When Eco Mode is turned On, the Eco Mode icon will be displayed.

### Turning Eco Mode On

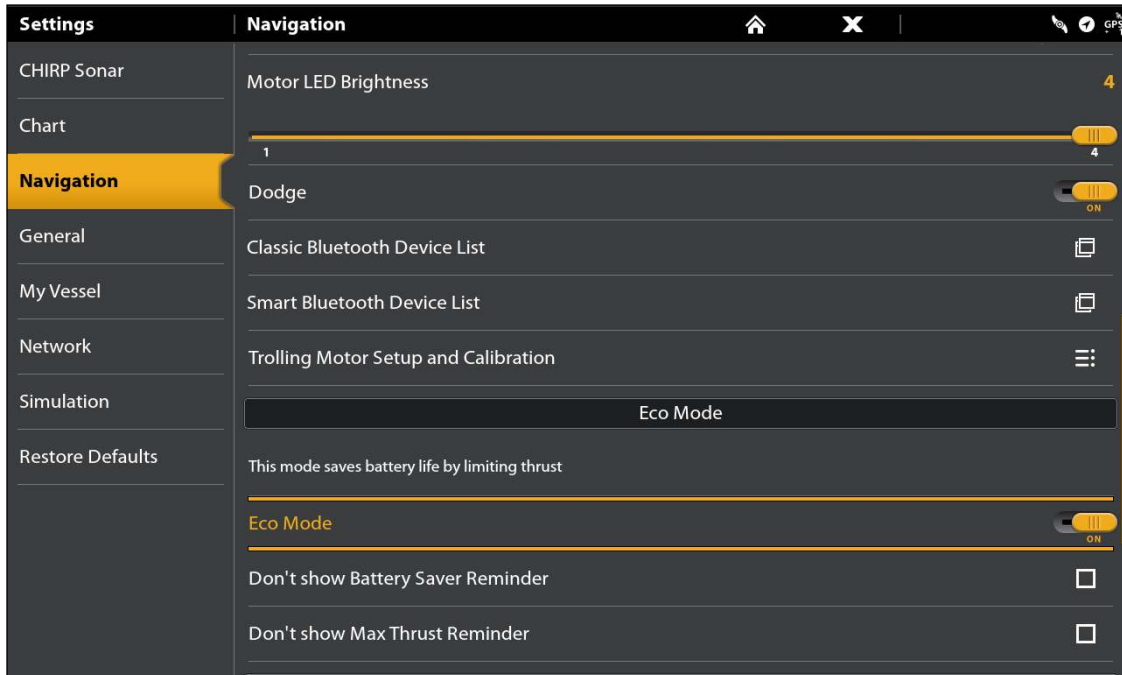




## Turn Eco Mode On/Off from the Settings Menu

1. Under Settings, select Navigation.
2. Under Eco Mode, tap On or Off.
3. When Eco Mode is turned On, the Eco Mode icon will display above the battery icon in the Trolling Motor Virtual Remote.

### Turning Eco Mode On

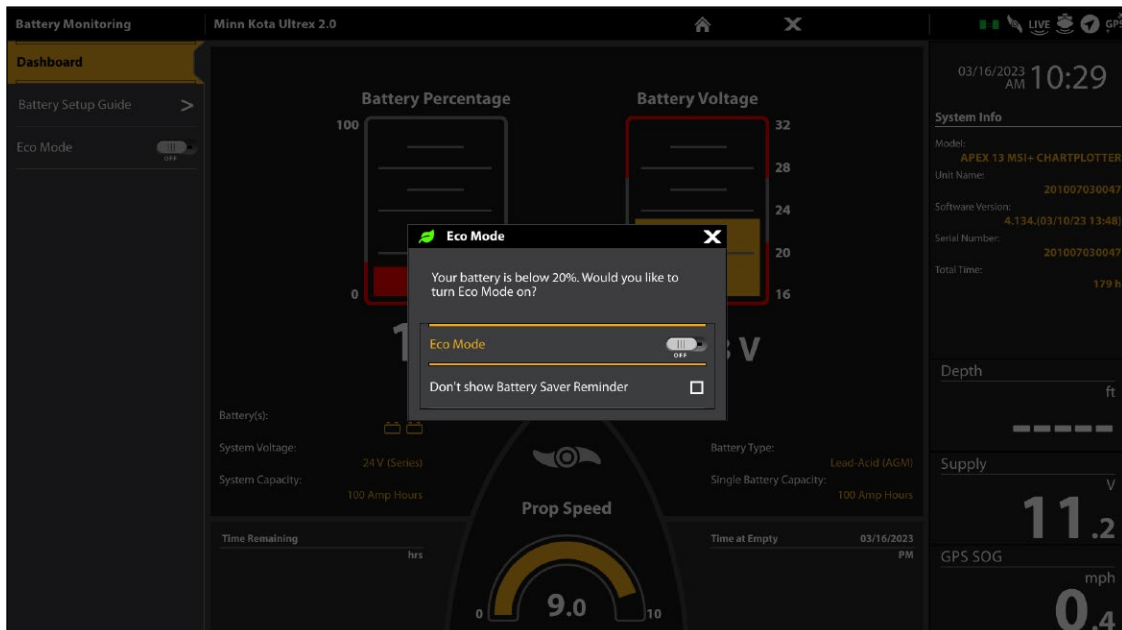


## Turn Eco Mode Reminders On/Off

Battery Reminder notifications will prompt you to turn Eco Mode on when the battery is below 20 percent or turn Eco Mode off if the battery is above 80 percent. These reminders can be turned on or off from the Navigation Settings menu.

1. Under Settings, select Navigation.
2. Under Eco Mode, tap the check box to select Don't show Battery Saver Reminder.
3. Under Eco Mode, tap the check box to select Don't show Max Thrust Reminder.

### Eco Mode Notification



## CONTACT HUMMINBIRD

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Any questions relating to the product should be directed to our Help Center at <https://humminbird-help.johnsonoutdoors.com/hc/en-us> or in writing to the address below:

Humminbird Service Department  
678 Humminbird Lane  
Eufaula AL 36027 USA

### Social Media Resources:



[Facebook.com/HumminbirdElectronics](https://www.facebook.com/HumminbirdElectronics)



[Twitter.com \(@humminbirdfish\)](https://twitter.com/humminbirdfish)



[Instagram.com/humminbirdfishing](https://www.instagram.com/humminbirdfishing)



[YouTube.com/humminbirdtv](https://www.youtube.com/humminbirdtv)

