ADVANCED GPS NAVIGATION

Operations Guide

532305-3EN_B



THANK YOU!

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.

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.

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.

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.

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.

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.

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.

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.

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

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.

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

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** and download your fish finder operations manual for details.

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.

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):

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.

NOTES

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.

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

To purchase accessories or any additional equipment for your Humminbird configuration, visit our Web site at humminbird. johnsonoutdoors.com or visit minnkota.johnsonoutdoors.com.

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.

Product specifications and features are subject to change without notice.

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 wheelie 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. Johnson Outdoors Marine Electronics, Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirements do vary within European Union member states. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased.

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TABLE OF CONTENTS

Warnings	2
Introduction	7
Installation	8
Purchase Ethernet Cables and Equipment	8
Confirm Installation of Trolling Motor and Remote	8
Connect the Advanced GPS Navigation System to the Humminbird Fish Finder	9
Confirm Trolling Motor Connection on the Humminbird Fish Finder	10
Confirm GPS Reception	11
Update Software	13
Register Products	13
Check the Current Software Version	13
Update Fish Finder Software with an SD Card	13
Update Accessory Software with an SD Card	14
Update Software with the One-Boat Network App	14
Configure Advanced GPS Navigation with the	
Humminbird	15
Enable Trolling Motor Navigation	15
Turn On/Off Prop Auto-On (optional)	16
Set the Arrival Mode	16
Install a Map Card	17
Set the Water Level Offset	18
Turn On Trolling Motor Sync	19
Complete Motor Setup and Calibration	20
Set Straight on Deploy	22
Customize Foot Pedal One-Boat Network Button	22
Set Up Trolling Motor Alarms	23
Set the Pre-Arrival Alarm	23
Set the Off Course (XTE) Alarm	24
Confirm an Activated Alarm	24
Chart Overview	25
Display Spot-Locks and iTracks on the Chart View	27
Display Contour Lines and Depth Ranges	28
Deploy or Stow the Trolling Motor	31
Open the Ulterra Virtual Remote	31
Deploy the Motor	32
Pause Deploying or Stowing	32
Adjust the Trim	32

Prop On/Off	32
Stow the Motor	32
Advanced GPS Navigation Overview	34
Using Advanced GPS Navigation with the Humminbird	
Fish Finder	34
Trolling Motor Virtual Remote Overview	35
Navigation Menu Overview	37
Start Advanced GPS Navigation	38
Cancel Advanced GPS Navigation	39
Propeller Controls	40
Propeller Icon	40
Start or Stop the Propeller	41
Steer	42
Increase or Decrease Speed	43
Engage Max Speed	44
Disengage Max Speed	44
Cruise Control	45
Spot-Locks	47
Start Spot-Lock Navigation	48
Navigate to a Saved Spot-Lock	50
Resume Advanced GPS Navigation (Spot-Lock Pause)	51
Move a Spot-Lock (Heading Sensor Required)	53
Cancel Spot-Lock Navigation (Disengage)	55
Drift Mode	57
Engage Drift Mode	57
Cancel Drift Mode	58
Drift Mode Adjust Course - Angle	59
Drift Mode Jog	59
Reverse Drift Mode	60
Dodge Mode	61
Turn Dodge Mode On/Off	61
Engage and Disengage Dodge Mode	62
Waypoints	63
Mark a Waypoint	63
Start Navigation to a Saved Waypoint	65
Delete a Saved Waypoint in the Chart View	66
Circle Mode	67
Navigate in Circle Mode	68
- Start Circle Mode at the Cursor Position	69
Adjust Circle Mode Settings	70

TABLE OF CONTENTS

Cancel Navigation (Disengage)	70
iTracks	72
Record an iTrack	74
Stop iTrack Recording	75
Select and Navigate a Saved iTrack	76
Cancel Navigation (Disengage)	78
Delete a Saved iTrack	78
BackTrack	80
Set the BackTrack Distance	
Start BackTrack Navigation	81
Follow the Contour/Shoreline	82
Preparation	
Start Follow the Contour/Shoreline Navigation	
Set the Contour Offset	
Adjust the Contour Offset during Navigation	
Reverse Direction During Follow the Contour	
Navigation	85
Follow Bottom Hardness or Vegetation	
Reverse Direction	
Routes	89
Quick Route Navigation	
Create a Saved Route	91
Navigate a Saved Route	92
Edit a Route in Chart View	
AutoPilot	94
Locked Course AutoPilot	94
Locked Heading AutoPilot	95
How to Determine When to Use Locked Course and When to Use Locked Heading	
Using AutoPilot with Other Advanced GPS Functions.	
AutoPilot Overview	96
Set the AutoPilot Mode	97
Start AutoPilot Based on the Motor's Heading	98
Manage your Advanced GPS Navigation Data	100
Open the My Data Tool	
Manage iTracks	
Manage Spot-Locks	104
Import/Export Nav Data	105
Battery Monitoring_	106
Set Up Battery Monitoring	106

<u>C</u>	Contact Humminbird	109
	Eco Mode	.107
	Open Battery Monitoring View	.107

INTRODUCTION

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 APEX, XPLORE and SOLIX 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**.

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 and 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** [select Shop > Accessories > Cables].

Hardware	Ethernet Cables	
Humminbird APEX, XPLORE, and SOLIX Fish Finder	AS EC 10E, AS EC 20E, etc. (Ethernet Extension Cable) Various cable lengths are available. Visit our Web site at humminbird.johnsonoutdoors.con for details. The following cable is not 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 humminbird.johnsonoutdoors.com for details. The following cable is not 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.



- 5. **Ethernet Switch:** Connect the Ethernet Cable connector to an available Ethernet port. Hand-tighten the screw nut to secure the connection.
- 6. Humminbird Fish Finder: Align the Receptacle on the Ethernet Cable with the Eight Pin Connector on the APEX, XPLORE or SOLIX fish finder. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection. Once directly installed to the fish finder, 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 on the HOME screen. Each accessory connected to the fish finder is represented by a status icon in the system status bar.



- 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
HON	Connected and Detected: Trolling motor is connected and detected on the network.
(O)	Detected and Enabled: 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).
	Detected, Enabled, and Actively Navigating: Trolling motor is connected to the network, enabled, and actively navigating.
()	Connected, but not Detected or Active: Trolling motor is connected, but not detected on the network or enabled.

NOTE For additional system information, select Home > Settings > System > Network Info.

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.

Check the System Status Bar

1. From 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
CPS	Detected and Active: The GPS receiver is detected and a GPS fix has been obtained.
GP	Connected but not Transmitting/Receiving: The GPS receiver is detected, but it doesn't have a GPS fix.
CPS	Connected but not Detected or Active: 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.

Check GPS Reception and Satellite Strength

- 1. Press the HOME key.
- 2. Select Tools.
- 3. Select the GPS tool.
- 4. 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 control head operations manual.

GPS (1) Satellite Sky Chart



5. 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.

Fish Finder Required Software: The following fish finder software version is required to operate Advanced GPS Navigation:

• 5.0 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 5 minutes to update.

Supplies: In addition to your Humminbird equipment, you will need a computer with Internet access and a blank 32GB SD or microSD card (depending on your fish finder).

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

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**. Select Support > Register Your Product.
- 2. Follow the on-screen prompts to register your products.

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.

- 1. Press the HOME key.
- 2. Select Settings.
- 3. Select System.
- 4. Select System Info.

Review the software version number listed.

Update Fish Finder Software with an SD Card

NOTES

If you have more than one fish finder on the network, go to each fish finder to install the latest software update. Fish finder software updates cannot be updated through another networked unit.

When you install the SD card with the software file into your fish finder, the fish finder will detect the update and provide an automatic prompt to install the software. You can follow the prompts or choose to install the software at a later time. See your fish finder operations manual for more information.

To ensure a smooth update process, keep the unit powered on until the update is fully completed. Interrupting the power supply during the update can result in system instability or data loss.

- 1. Install a formatted SD or microSD card into the computer card slot.
- 2. Go to **humminbird.johnsonoutdoors.com**, and click Support > Software Updates.
- 3. Click on your fish finder model. The available software updates are listed as downloads under each product. Confirm the file name is for your fish finder model.

- Read the notices and instructions, and select Download.
- Follow the on-screen prompts to save the software file to the SD or microSD card.
- 4. Power on your Humminbird fish finder. Start **Normal** mode.
- 5. Install the SD card with the software file(s) into the fish finder card slot.
- 6. Follow the on-screen prompts to update the fish finder software.
- 7. When the software update is complete, remove the SD or microSD card from the fish finder card slot.

Update Accessory Software with an SD Card

- 1. Install a formatted SD or microSD card into the computer card slot.
- 2. Go to **humminbird.johnsonoutdoors.com**, and click Support > Software Updates.
- 3. Scroll down to Accessories and Mapping. The available software updates are listed as downloads under each accessory product. Confirm your fish finder model is listed in the software description.
 - Read the notices and instructions, and select Download.
 - Follow the on-screen prompts to save the software file to the SD or microSD card.
- 4. Power on your Humminbird fish finder. Start **Normal** mode.
- 5. Insert the SD or microSD card (with the software file) into the fish finder card slot.
- 6. Select Tools > Software Updates. Scroll to the first accessory on the Accessories list. Confirm that the most current software version is selected from the list, and select Install Now.
- 7. When the software update is complete, remove the SD or microSD card from the fish finder card slot.

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 or accessory.

NOTES

Your fish finder must already be running software release 4.130 or higher to support this feature. You must first download the One-Boat Network App and pair your Minn Kota and Humminbird compatible products.

- 1. Open the One-Boat Network App on your mobile device.
- 2. Tap Network + Updates.
- 3. Tap Download Update next to the Humminbird 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.
- 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 slot 2).

NOTE

You cannot download software updates to an SD or microSD card with 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.

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 fish finder, 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 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.
- 2. Select the One-Boat Network tool.
- 3. Under Trolling Motor, select Motor Setup.
- 4. Under Trolling Motor Settings, select Trolling Motor Navigation.
- 5. Tap the on/off button, or press the ENTER key, to turn Trolling Motor Navigation **ON**.

Turning On Trolling Motor Navigation



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.

\land 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 Settings, select Prop Auto-On.
- 2. Tap the On/Off button, or press the ENTER key, to turn it on or off.

\land 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 Settings, 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			
	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.		
Prop Off	A WARNING		
	If AutoPilot is the current navigation mode, you must turn off the propeller separately. See Propeller Controls .		
Spot-Lock	Creates and engages a Spot-Lock after navigation is finished. See Spot-Locks for details.		
AutoDilot	If the cursor is inactive, 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.		
AutoPhot	If the cursor is active, 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. *Requires installed Raptor/Talon.		

Opening the Motor Arrival Submenu

Setting the Motor Arrival Mode



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** for the latest list of compatible charts.

When you install an SD card, the map source is changed automatically to match the SD card map source. You can also change the map source using the Settings tool.

When you change the map source, the menu options for the Chart Views also change, allowing you to add navigation data, shading, alarms, and more. See each section for details.

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Settings.
- 3. Under System Settings, select Chart Source.
- 4. Select the Chart Source to display.

▲ CAUTION

Do not leave the card 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. With a Chart view displayed on-screen, tap the **Menu** icon \blacksquare in the Top Bar.

OR

Press the MENU key.

- 2. Select Water Level Offset.
- 3. Tap the **on/off** button, or press the ENTER key, to turn it on.
- 4. Tap the +/- icons, or drag the slider, to adjust the setting.
 - If the water level is higher than normal, set a positive amount.
 - If the water level is lower than normal, set a negative amount.
 - If the water level has not changed (normal), turn the Water Level Offset off.

Ì. 0 • ŝ 4 Chart × 7 AutoChart[™] Live 9:38 Water Level Offse 0.0 Selected Chart GPS COG SmartStrike 11.8 Navigation Info r Level Offs 3 ft è-× Settinas

Setting the Water Level Offset

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.

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. Tap the My Data tool.
- 3. Tap My Data Settings.
- 4. Select Trolling Motor Sync.
- 5. Tap the on/off button, or press the ENTER key, to turn it on.

Turning On Trolling Motor Sync

A S My Dat	ta Settings ×
Waypoints 3	Trolling Motor Sync
Spot-Locks 0	Waypoints
Routes 0	Spot-Locks
Tracks 1	Routes
iTracks 0	Tracks
My Data Settings	iTracks
Transfer to Phone	Groups
Export All To 🕨	
Import Nav Data 🔹 🕨	

7 | Complete Motor Setup and Calibration

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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Trolling Motor Setup and Calibration.
- 4. Select Boat Scale.
- 5. Adjust: Tap the +/- buttons to adjust the setting.

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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, 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, complete all installation steps. This includes mounting the trolling motor to the boat and installing power and accessory cables.

- 1. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Trolling Motor Setup and Calibration.
- 4. Select Keel Mount Offset.
- 5. Point the motor forward and parallel to the Keel.
- 6. 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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Trolling Motor Setup and Calibration.
- 4. Select Calibrate Heading Sensor.
- 5. Select Start to begin the process.
- 6. Drive the boat in two complete circles.

The progress of the boat around the circular path will show as a percentage completed for each circle while the boat navigates.

- 7. Once the two circles are complete, the screen will read "Calibration Successful."
- 8. Proceed to Heading Line Offset 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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Trolling Motor Setup and Calibration.
- 4. Select Heading Line Offset.
- 5. Review all safety warnings.
- 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. 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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select 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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, 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

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.

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. Press the Tools icon.
- 3. Select Alarms.
- 4. Under Settings, select Alarms.
- 5. Select Navigation.
- 6. Under Trolling Motor Alarms, select Pre-arrival.
- 7. On/Off: Tap the on/off button, or press the ENTER key, to turn it on

Adjust: Drag the slider to adjust the alarm threshold.

Setting the Trolling Motor Pre-Arrival Alarm

Alarms Navigation			When Trolling Motor
Settings	Off Course (XTE)	0	on, the Arrival Alarm is
Alarms			Motor Pre-Arrival Alarm,
Mute Alarms	Waypoint Avoidance		Alarm is replaced by the Trolling Motor Off Course
History		Trolling Motor Alarms	(XTE) Ålarm.
Active Alarms	Off Course (XTE)	Oft	
Alarms Log		300	
Clear Alarms Log	Pre-arrival	218 ft	— Turn the alarm On, then adjust the setting.
	ō	300	

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. Press the HOME key.
- 2. Press the Tools icon.
- 3. Select Alarms.
- 4. Under Settings, select Alarms.
- 5. From the Trolling Motor Alarms menu, select Off Course (XTE).
- On/Off: Tap the on/off button, or press the ENTER key, to turn it on.
 Adjust: Drag the slider to adjust the alarm threshold.

When Trolling Motor Navigation Alarms > Navigation is turned on, the Arrival Alarm is replaced by the Trolling Motor Settings Pre-Arrival Alarm, and the Off Course (XTE) Alarm is replaced Alarms by the Trolling Motor Off Course Mute Alarms (XTE) Alarm. Waypoint Avoidance History **Trolling Motor Alarms** Turn the alarm On, Active Alarms then adjust the setting. Alarms Log 0 Clear Alarms Log Pre-arriva D

Setting the Trolling Motor Off Course (XTE) Alarm

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.

CHART OVERVIEW

Display a Chart View

- 1. Press the HOME key.
- 2. Select Chart from the Views Menu, and then select a Chart type.

OR

Select Chart View from the Favorites Menu.

Chart View from Views Menu





The map displayed on the Chart View is based on your latitude/longitude position and the chart card installed in the fish finder, so your current position will be displayed automatically. GPS reception is required for the correct position to be displayed.

Side Bar Widgets

The Side Bar includes widgets that allow you to quickly access your data bars and Trolling Motor digital remote. The Side Bar is set to be minimized. Tap the Side Bar to view the widgets and tap the Pin icon to keep the Side Bar open. For more information about using and customizing the side bar, see your Humminbird operations manual.

Display the Trolling Motor Navigation Data Bar

Your fish finder allows you to display a data bar with preset data boxes. With a connected Advanced GPS trolling motor, the second tab of the data bar includes preset data boxes displaying trolling motor navigation information, such as the current method of navigation (iTrack, route, AutoPilot, etc.) heading, and course over ground.

Display the Data Bar

- 1. With a view displayed on-screen, tap the Side Bar to expand it.
- 2. Select the Data Bar icon $\mathbb{T}^{\mathbb{T}}$ from the Side Bar. Tap the More icon ••• to see the second tab in the data bar.

To keep the data bar displayed on the view, tap the pin icon at the bottom of the data bar.



Chart View with Trolling Motor Navigation Data Bar Displayed

select to keep data bar displayed (otherwise, it will automatically close)

Change the Data Boxes (optional)

Use the following instructions to change the data boxes displayed in a data bar.

- 1. With a view displayed on-screen, tap the Side Bar to expand it.
- 2. Select the Data Bar icon 25° from the Side Bar.
- 3. Press and hold the data box to select it.
- 4. Select a data type from the menu.
- 5. Select a data label.
- 6. **Close:** Press the EXIT key.

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.

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Settings.
- 3. Select 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.

Displaying Navigation Data on Chart View



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 the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Settings.
- 3. Select Depth/Contours.
- 4. Select the following menus to your preference.

Contour Lines	Turn on Contour Lines to display contour lines on the map.	
Contour Density	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.	
Contour Color	Use Contour Color to adjust the color of the contour lines displayed on the map. Contour lines must be turned on to adjust this feature.	
Depth Palette	Turn on Depth Palette to turn on depth area colors in the Chart View.	
Palette Min/Max Range	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.	
Color Palette	Use Color Palette to change the colors used to display the map.	

QUICK TIP! You can also change the Color Palette using the Color Palette icon 💥 1 on the Top Bar.

Set Depth Highlights

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Settings.
- 3. Select Depths Highlight.
- 4. Select the following menus to your preference.

OR

- 1. With a Chart View displayed on-screen, tap the Depth High icon in the Top Bar.
- 2. Select the following menus to your preference.

Depth Highlight	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.
Highlight Range	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.
Shallow Water Highlight	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.

Adjusting the Vx Chart Card Display Settings



Humminbird Legacy Charts

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Settings.
- 3. Select the following menus to your preference.

Depth Colors	Turn on Depth Colors and adjust the range for depth shading in the Chart Views.
Depth Highlight	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.
Highlight Range	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.
Shallow Water	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.
Contour Interval	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 Configure Advanced GPS Navigation with the Fish Finder and Follow the Contour .

Adjusting the Humminbird LakeMaster Legacy 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.

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 Virtual Remote

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

Opening the Ulterra Deploy/Stow Virtual Remote



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 fish finder will save the most-recent trim setting and apply it when the motor is deployed again.

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.

- 1. Open the Ulterra virtual remote.
- 2. Tap the Deploy button.

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

Pause: Tap the Pause button.

Pause Deploying or Stowing

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

- 1. Open the Ulterra virtual remote.
- 2. Tap the Pause button.

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.

- 1. Open the Ulterra virtual remote.
- 2. Tap the Trim up or down arrows.

Prop On/Off

Use the following instructions to turn on the prop from the Ulterra virtual remote.

- 1. Open the Ulterra virtual remote.
- 2. Tap the Propeller button to turn it on/off.

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.

- 1. Open the Ulterra virtual remote.
- 2. Tap the Stow button.

Turning on the Propeller (Ulterra only)



NOTE

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

Advanced GPS Navigation Overview

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.

Open the Trolling Motor Virtual Remote

Navigation modes can be started from the trolling motor virtual remote or the Navigation 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.

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



Opening the Trolling Motor Virtual Remote

Trolling Motor Virtual Remote


Navigation Menu Overview

The **Navigation** menu starts navigation to the item you select. You can also cancel navigation from this menu. The Navigation menu can be opened from the NAVIGATION key, the Chart X-Press menu or the trolling motor virtual remote.

Open the Navigation Menu from the Chart X-Press Menu

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select Navigation.

Open the Navigation Menu from the NAVIGATION Key

1. With a Chart View displayed on-screen, press the NAVIGATION key.



Open the Navigation Menu from the Trolling Motor Virtual Remote

- 1. Open the trolling motor virtual remote: Tap the trolling motor icon in the side bar.
- 2. Tap the Navigation button.

Opening the Navigation Menu

Opening the Navigation Menu from the Virtual Remote





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 Navigation 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. Open the Navigation menu by pressing the Navigation key or open the Chart X-Press menu and select Navigation.

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 Spot-Lock 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 Follow the Contour/Shoreline section for compatible Map Card information and details. This feature is available in the Chart View only.			
AutoPilot	If the cursor is inactive, 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.			
	If the cursor is active, navigation begins in the direction of the cursor's position using bearing data from the active cursor.			
	See the AutoPilot section for details.			
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 Drift Mode section for details.			
Circle	Select Circle Mode to set a point to navigate around. You can select clockwise or counterclockwise. See the <i>Circle Mode</i> 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 BackTrack section for details.			
Quick Route	Select Quick Route to connect route points and waypoints and start navigation immediately.			
Nav Data	Select Nav Data to start navigation to a saved waypoint, route, Spot-Lock, iTrack, etc. See Manage Your Advanced GPS Navigation Data 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.

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

Cancel Navigation (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

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

Confirm the prop is turned off.

NOTE

Cancel Navigation (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Tap the Cancel (X) button to turn it off. (Gray = Off)

NOTE

Confirm the prop is turned off.

Canceling Navigation (Navigation Menu)

Canceling Navigation (Virtual Remote)

AutoPilot

Prop | SOG

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5



Advanced GPS Navigation

PROPELLER CONTROLS

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.

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].

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).

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 Navigation 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*].

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.

- 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.

Starting the Propeller



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).

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

Steering with the Trolling Motor Virtual Remote



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.

- 1. Open the trolling motor virtual remote: Tap the trolling motor icon in the side bar.
- 2. To increase the propeller speed, tap the + (PLUS) button.

To decrease the propeller speed, tap the - (MINUS) button.

Increasing or Decreasing Speed with the Trolling Motor Virtual Remote



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

MARNING

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.

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

Disengage Max Speed

To exit Max Speed, decrease the propeller speed.

- 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.



Engaging Max 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.

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.

- 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.

Disengage Cruise Control

- 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).

OR

Tap the Cruise button again.

Adjusting the Cruise Control 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.

<u>∕∧</u> 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 10,000 Spot-Locks and waypoints on your Humminbird fish finder, or up to 20 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 My Data tool.

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.

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 Navigation menu or the trolling motor virtual remote. Before proceeding, confirm the cursor is not active.

Engage Spot-Lock at the Boat Position (Navigation Menu)

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

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

2. Select Spot-Lock.

Navigation will start automatically.

Cancel Navigation/Disengage Spot-Lock: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation. Canceling navigation will delete the Spot-Lock.



Engaging Spot-Lock at the Boat Position (Navigation Menu)

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.

- 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.



Engaging a Spot-Lock at the Boat Position

Engage Spot-Lock at the Cursor Position

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

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*].

- 1. Tap a position on the chart to activate the cursor.
- 2. Tap Navigation in the Top Bar.

OR

Press the NAVIGATION key.

3. Select Spot-Lock.

Navigation will start automatically.

Cancel Navigation/Disengage Spot-Lock: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation. Canceling navigation will delete the Spot-Lock.

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

- 1. Tap a Spot-Lock icon on the chart.
- 2. Tap Navigation in the Top Bar.

OR

Press the NAVIGATION key.

3. Select Spot-Lock.

Navigation will start automatically.

Cancel Navigation/Disengage Spot-Lock: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation. Canceling navigation will delete the Spot-Lock.



Navigating to a Saved Spot-Lock in Chart View

selected spot-lock

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 (Navigation Menu)

- 1. Open the X-Press menu. Tap Navigation.
 - OR

Press the NAVIGATION key.

2. Select Resume.

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

Resume Advanced GPS Navigation (Trolling Motor Virtual Remote)

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

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

Select a Saved Spot-Lock in the My Data Tool

Before proceeding, confirm the cursor is not active.

- 1. Select the My Data tool 💮 from the Home page or the Top bar.
- 2. Select the Spot-Locks tab.
- 3. Tap a spot-lock, or use the Cursor pad/Joystick to select a spot-lock and press the ENTER key. The Spot-Lock Info Menu will open.
- 4. Start Navigation: Select Navigation to start navigation to the selected Spot-Lock.

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

Selecting a Saved Spot-Lock from the My Data Tool

^ ?	SL012			×
4	NAME			SPOT-LOCK
Cursor To	SL012	in Group	My Data	
	POSITION	DEPTH		
Navigati	N 46.16129° W 93.74147°	1	1	
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↔				Distance: 30.7 ft
Move				Bearing: 329.1 ° T
				Altitude: -
Save	Visibility			Temperature: -
	SPOT-LOCK LABEL			Time: 11:11:23 AM
Ū	Name	Depth	None	Date: 3/20/2025
Delete				
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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.

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.

- 1. Tap a spot-lock on the chart.
- 2. Tap the More icon $\bullet \bullet \bullet$ in the Cursor menu.
- 3. Tap Move 🛟.
- 4. Tap a new position on the chart, or use the Cursor pad/Joystick to move the spot-lock to a new position.
- 5. Tap the Check icon \checkmark or press the ENTER key to confirm the new position.

Moving a Spot-Lock in Chart View

Tap the check icon to save the spot-lock at the new position.



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.

- 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.

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



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 (Navigation Menu)

Use the following instructions to cancel navigation using the Navigation menu.

- 1. Open the X-Press menu.
- 2. Tap Cancel Navigation.

OR

- 1. Press the NAVIGATION key.
- 2. Select Cancel Navigation.

Be prepared to take manual control of the boat!

Canceling Spot-Lock Navigation



engaged spot-lock

Cancel Navigation (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Tap the Cancel (X) button to turn it off. (Gray = Off)

OR

Tap the Spot-Lock button.

Yellow = On, Gray = Off

Be prepared to take manual control of the boat!

NOTE

Confirm the prop is turned off.



Canceling Navigation (Disengage Spot-Lock)

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 (Navigation Menu)

Use the following instructions to engage Drift Mode using the Navigation menu.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

2. Select Drift.

Navigation will start automatically.

Cancel Navigation/Disengage Drift: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation.



Cancel Drift Mode

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

Cancel Navigation (Navigation Menu)

Use the following instructions to cancel navigation using the Navigation menu.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

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

Be prepared to take manual control of the boat!

Cancel Navigation (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Tap the Cancel (X) button to turn it off. (Gray = Off)

Be prepared to take manual control of the boat!

Adjust Course - Angle (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. Select Adjust Course.
- 3. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Angle to adjust the course in 5 degree increments.

Adjust Course - Angle (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Select Adjust.
- 3. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Angle to adjust the course in 5 degree increments.

Drift Mode Jog

Adjust Course - Jog (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. Select Adjust Course.
- 3. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Jog to adjust the course in 5 feet increments.

Adjust Course - Angle (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Select Adjust.
- 3. In the Adjust Course box, tap the LEFT and RIGHT arrow keys under Jog to adjust the course in 5 feet increments.

Drift Mode - Adjust Course



Reverse Drift Mode

Adjust Course - Jog (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

2. Select Reverse.

Adjust Course - Angle (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Select Reverse.

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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Dodge.
- 4. Tap the on/off button, or press the ENTER key, to turn Dodge **ON**.

Turning On Dodge Mode

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Phone	Prop Speed	· 2.5	
Phone Setup	0.0	10.0	
Trolling Motor	Prop Auto-On		
Motor Setup	AutoPilot Mode		
Shallow Water Anchor	Backtrack Distance	0.1 mi 🗕 🕂	
Anchor Setup		2.0	
	Motor Arrival Mode		
	Audio Mode		
	Dodge		
	Classic Bluetooth Device List	C.	
	Smart Bluetooth Device List		
	Trolling Motor Setup and Calibration		

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: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Resume.



Engage Dodge Mode

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 10,000 Spot-Locks and waypoints on your fish finder. For complete details, see your Humminbird operations manual.

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 WAYPOINT key or WAYPOINT button on the Top bar.

Mark a Waypoint at the Vessel Position

- 1. With a Chart View displayed on screen, tap the Waypoint/Mark icon \odot in the Top Bar or press the WAYPOINT/MARK key.
- 2. Select a waypoint color icon and color from the Favorites menu.



Marking a Waypoint at the Boat Position

Mark a Waypoint at the Cursor Position

- 1. Tap a position on the Chart View to activate the cursor, or use the Cursor pad/Joystick to move the cursor to a position on the chart.
- 2. Tap the Waypoint/Mark icon 📀 in the Top Bar or press the WAYPOINT/MARK key.
- 3. Select a waypoint color icon and color from the Favorites menu.

Marking a Waypoint at the Cursor Position



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.

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.

1. Open the X-Press menu. Tap Navigation.

OR

Press the Navigation key.

- 2. Select the waypoint under Recent Nav Data. The last waypoint created is displayed in the menu using the waypoint name.
- 3. To start navigation, 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.

Starting Navigation to the Last Saved Waypoint in Chart View



Start Navigation to a Saved Waypoint in Chart View

- 1. Tap a waypoint on the chart, or use the Cursor pad/Joystick to move the cursor to a waypoint on the chart.
- 2. Tap the Navigation icon ┥ in the Top Bar or press the NAVIGATION key.
- 3. Select Go To: Point.
- 4. To start navigation, turn on the trolling motor prop.

Cancel Navigation: Tap the Navigation icon **f** or press the NAVIGATION 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 Saved Waypoint in Chart View



Delete a Saved Waypoint in the Chart View

- 1. Tap a waypoint on the chart, or use the Cursor pad/Joystick to move the cursor to a waypoint on the chart.
- 2. Tap the More icon $\bullet \bullet \bullet$ in the Cursor menu.
- 3. Select Delete 🔟.

NOTE

You can also delete saved waypoints from the My 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.

Marking 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. Boat navigating the set radius Boat navigating the set radius Counterclockwise Clockwise

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 Navigation menu. 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

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

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. Select Circle > Circle at Vessel.
- 3. Select Navigation Direction: Select Clockwise or Counterclockwise.
- 4. Adjust the Radius (optional): Select Radius. Tap the +/- buttons to adjust the radius setting.
- 5. Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation.

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 Navigation menu. The boat must be within 1/4 mile of the cursor position to begin Circle Mode navigation.

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*].

- 1. Tap a position on the chart.
- 2. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 3. Select Circle > Circle at Cursor.
- 4. Select Navigation Direction: Select Clockwise or Counterclockwise.
- 5. Adjust the Radius (optional): Select Radius. Tap the +/- buttons to adjust the radius setting.
- 6. Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation.



Starting Circle Mode at the Cursor Position

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 (Navigation menu)

- 1. Open the X-Press menu. Tap Navigation.
 - OR

Press the NAVIGATION key.

2. Select Reverse.

Reverse Direction during Circle Mode (vitual remote)

- 1. Open the trolling motor virtual remote: Tap the trolling motor icon in the side bar.
- 2. Tap the Reverse button.

Adjust the Radius during Circle Mode (Navigation men)

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

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. Select Radius.
- 3. Tap the +/- buttons to adjust the radius setting.

Adjust the Radius during Circle Mode (vitual remote)

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

- 1. Open the trolling motor virtual remote: Tap the trolling motor icon in the side bar.
- 2. Tap the Adjust button.
- 4. Tap the +/- buttons to adjust the radius setting.

Cancel Navigation (Disengage)

Cancel Navigation (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION 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 Cancel (X) button to turn it off. (Gray = Off)

NOTE

Confirm the prop is turned off.





iTracks



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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 Navigation menu.

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

Use the following instructions to record an iTrack using the Navigation menu.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

2. Tap the Record iTrack on/off button to turn Record iTrack ON.



Starting iTrack Recording

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

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 My Data Tool (see *Manage your Advanced GPS Navigation Data*).

Stop iTrack Recording

Use the following instructions to stop iTrack recording using the Navigation menu.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 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.



Saving the Recorded iTrack

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

- 1. Press and hold a position on the iTrack.
- 2. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION 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: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select Cancel Navigation.

NOTE

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





iTrack start point

Select and Navigate a Saved iTrack from the My Data Tool

Before proceeding, confirm the cursor is not active.

- 1. Press the HOME key.
- 2. Select the My Data tool 🛞.
- 3. Select the iTracks tab.
- 4. Tap an iTrack. The iTrack Info Menu will open.
- 5. Tap Navigation.
- 6. To start navigation, 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.

Select and Navigate the Last Saved iTrack

Before proceeding, confirm the cursor is not active.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. From the Recent Nav Data menu, tap 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: Open the X-Press menu and select Navigation or press the NAVIGATION 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.

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

2. Select Reverse.

Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION 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 (Navigation Menu)

Use the following instructions to cancel navigation using the Navigation menu.

- 1. Open the X-Press menu.
- 2. Tap Cancel Navigation.

OR

- 1. Press the NAVIGATION key.
- 2. Select Cancel Navigation.

Be prepared to take manual control of the boat!

Cancel Navigation (Trolling Motor Virtual Remote)

- 1. Open the trolling motor virtual remote.
- 2. Tap the Cancel (X) button to turn it off. (Gray = Off)

Be prepared to take manual control of the boat!

Delete a Saved iTrack

You can delete a saved iTrack from the Cursor Menu in the Chart View or from the My Data tool (see **Manage Your Advanced GPS Navigation Data**).

Delete a Saved iTrack in the Chart View

- 1. Tap the Start Point icon or End Point icon on the iTrack. The iTrack name will appear in the Top bar.
- 2. Tap the More icon $\bullet \bullet \bullet$ in the Cursor menu.
- 3. Tap the Delete icon 🔟.



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

Delete a Saved iTrack from the My Data Tool

Before proceeding, confirm the cursor is not active.

- 1. Press the HOME key.
- 2. Select the My Data tool 🔊.
- 3. Select the iTracks tab.
- 4. Tap an iTrack. The iTrack Info Menu will open.
- 5. Select Delete.



Deleting a Saved iTrack from the My Data Tool

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.

Set the BackTrack Distance

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

- 1. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select **Backtrack Distance**.
- 4. Tap the +/- buttons to adjust the BackTrack Distance setting.

Setting the BackTrack Distance

A V Motor	Setup	×				
Phone	Control and manage settings for your Minn Kota Trolling Motor with Advanced GPS Navigation					
Phone Setup	Trolling Motor Settings					
Trolling Motor	Trolling Motor Navigation	-				
Motor Setup	Prop	$\hfill \square$				
Shallow Water Anchor	Prop Speed	2.0				
Anchor Setup	0.0	10.0 - +				
	Prop Auto-On	\bigcirc				
	AutoPilot Mode					
	Backtrack Distance	0.4 mi				
	0.1	2.0 - +				
	Motor Arrival Mode					
	Audio Mode					
	Dodae					

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.

Start BackTrack Navigation (Navigation Menu)

1. Open the X-Press menu. Tap Navigation.

OR

Press the NAVIGATION key.

- 2. Select BackTrack.
- 3. To start navigation, turn on the trolling motor prop.

Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION key. Then, select Cancel Navigation.



Navigating BackTrack

iTrack

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.

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

Before you use Follow the Contour, contour lines should be displayed on the Chart View.

1. Set Contour Lines to Visible

- 1. From the Chart X-Press Menu, select Settings.
- 2. Select **Depths/Contours > Contour Lines**.
- 3. Tap the on/off button, or press the ENTER key, to show or hide contour lines.

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.

MARNING

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.

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. Tap the contour line you plan to follow.

OR

Use the Cursor pad/Joystick to move the cursor to select a contour line.

OR

Proceed to Step 2 to start Follow the Contour at the boat position.

2. Select **Go To > Follow the Contour**.

3. Select a navigation direction from the submenu.

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

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.

4. Power on the trolling motor to begin navigation. Refer to the **Advanced GPS Navigation** operations manual for additional information.



Cancel Navigation

Use the following instructions to cancel navigation.

- 1. Press the NAVIGATION key to open the Navigation menu.
- 2. Select Cancel Navigation.
 - OR
- 1. Tap **Cancel** from the trolling motor side bar.

Set the Contour Offset

You can set Contour Offset to maintain a set distance from a contour line. If you want to navigate along a shoreline, use Contour Offset to maintain a safe distance from the shoreline. Contour Offset is a distance setting only, and does not measure water depth. Enter the Contour Offset based on your knowledge of the water depth in your current area.

No Offset: If you want to navigate the contour without an offset, you can skip this section.

During Navigation: Contour Offset can be adjusted while Follow the Contour navigation is in progress by selecting Contour Offset from the Navigation menu or Adjust from the Trolling Motor side bar.

WARNING

Contour Offset does NOT account for changes in water depth. It is important to be aware of depth variations in your current area and adjust the Contour Offset as needed.

To set the Contour Offset, your boat must be positioned within **1/4 mile** of the selected contour.

1. Tap the contour line you plan to follow.

OR

Use the Cursor pad/Joystick to move the cursor to select a contour line.

- 2. Select **Go To > Follow the Contour**.
- 3. Select **Contour Offset**. Tap the +/- buttons to adjust the offset.

To remove the offset, set the offset to 0 (off).

Adjust the Contour Offset During Navigation

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

MARNING

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.

Adjust the Contour Offset during Navigation

- 1. Press the NAVIGATION key to open the Navigation menu.
- 2. Select Contour Offset.
- 3. Tap the +/- buttons to adjust the offset.

To remove the offset, set the offset to 0 (off).

OR

- 1. Tap **Adjust** from the trolling motor side bar.
- 2. Drag the slider to adjust the contour offset.

Jog the Contour Offset during Navigation

NOTE

The Jog feature is only available on the fish finder Follow the Contour was started on.

- 1. Press the NAVIGATION key to open the Navigation menu.
- 2. Select Adjust.
- 3. Select Contour Jog Shallower or Contour Jog Deeper.

Adjusting Follow the Contour



Reverse Direction During Follow the Contour Navigation

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

- 1. Press the NAVIGATION key to open the Navigation menu.
- 2. Select **Reverse**.

OR

1. Tap **Reverse** from the trolling motor side bar.

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.

- 1. With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
- 2. Select AutoChart LIVE.
- 3. Select AC Live Options.

Show Bottom Hardness

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

- 1. From the AutoChart Live menu, select Hardness Layer or Vegetation Layer. Tap, or press the ENTER key, to add a check mark to the box.
- 2. Select Bottom Hardness.
- 3. Adjust the Transparency: Tap the +/- buttons to adjust the setting.

Displaying the Bottom Hardness Layer (Map Source: Humminbird)



Follow Bottom Hardness

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

- 1. Press and hold a position on the Bottom Hardness layer.
- 2. Select Go To > Follow > Hardness.
- 3. Adjust the Offset (optional): Select Contour Offset. Tap the +/- buttons to adjust the offset.

To remove the offset, set the offset to O (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, open the X-Press menu and select Navigation or press the NAVIGATION key. Select Reverse.

Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION 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*].

Navigating Follow Bottom Hardness



Show Vegetation

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

- 1. From the AutoChart Live menu, select Hardness Layer or Vegetation Layer. Tap, or press the ENTER key, to add a check mark to the box.
- 2. Select Vegetation.
- 3. Adjust the Transparency: Tap the +/- buttons to adjust the setting.

Follow Vegetation

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

- 1. Press and hold a position on the Vegetation layer.
- 2. Select Go To > Follow > Vegetation.
- 3. Adjust the Offset (optional): Select Contour Offset. Tap the +/- buttons to adjust the offset.

To remove the offset, set the offset to O (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, open the X-Press menu and select Navigation or press the NAVIGATION key. Select **Reverse**. Or, tap **Reverse** on the trolling motor virtual remote.

Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION key. Select **Cancel Navigation**. Or, tap **Cancel** 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 vegetation layer. If the boat does not move, confirm the prop is turned on in the menu system [see **Propeller Controls**].

Reverse Direction

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

1. During navigation, tap the Menu icon in the Top Bar, or press the MENU key once. Select Navigation.

OR

Press the NAVIGATION key.

2. Select Reverse.

▲ 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 Start Point

Route End Point

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*).

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 NAVIGATION 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 from Navigation X-Press Menu

1. **Open the Navigation X-Press Menu:** With a Chart View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once. Select Navigation.

OR

With a Chart View displayed on-screen, NAVIGATION key.

- 2. Select Quick Route.
- 3. Tap points on the screen to add route points. Use the Route Point icon \bigcirc or Back icon \bigcirc to make changes. Select the Check icon \checkmark when complete. Navigation will begin.

Start Quick Route Navigation from Cursor Menu

- 1. Tap a waypoint on the chart, or use the Cursor pad/Joystick to move the cursor to a waypoint on the chart. The waypoint icon, name and depth will display in the Top Bar.
- 2. Tap the Quick Route icon 📢 in the Cursor Menu.
- 3. Tap points on the screen to add route points. Use the Route Point icon ⊕ or Back icon ∽ to make changes. Select the Check icon ✓ when complete. Navigation will begin.

NOTE

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

Marking a Quick Route



Change Route Order During Navigation

1. During navigation, tap the Menu icon in the Top Bar, or press the MENU key once. Select Navigation.

OR

Press the NAVIGATION key.

2. Select one of the following menu options:

Restart Course: Resets navigation to start from the current vessel position to the next point in the route.

Next Point: Skips to the next point in the route.

Reverse Route: Reverses the currently navigated route. Navigation will start from the vessel position and continue in the opposite order.

Cancel Quick Route Navigation

1. During navigation, tap the Menu icon in the Top Bar, or press the MENU key once. Select Navigation.

OR

Press the NAVIGATION key.

- 2. Select Cancel Navigation.
- 3. Select Save Route or Discard Route.

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 will use the Mark Route icon 🛀 in the Cursor menu.

Save Location: The route is saved to the My Data tool.

Navigation: To start navigation on the route, see Start Navigation to a Saved Waypoint or Route.

Overlay: To display saved routes on the Chart View, press the MENU key once. Select Chart Options > Overlays > Nav Data > Routes (Saved).

- 1. Activate the cursor on the chart using the touchscreen or cursor pad.
- 2. Tap the Mark Route icon 🛀 in the Cursor Menu.
- 3. Tap points on the screen to add route points. Use the Route Point icon ◆ or Back icon 5 to make changes. Select the Check icon ✓ to save the route.

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.



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.

- 1. Tap a waypoint or route point on the chart, or use the Cursor pad/Joystick to move the cursor to a waypoint or route point on the chart.
- 2. Tap the Navigation icon ┥ in the Top Bar or press the NAVIGATION key.
- 3. Select Go To: Route or Go To: Point.

Cancel Navigation: Tap the Navigation icon **f** or press the NAVIGATION 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

Edit a Route in the Chart View

1. Tap the route to select it.

OR

Use the Cursor pad/Joystick to move the cursor to a route on the chart. Press the ENTER key.

- 2. Use the Route Info menu to edit the route name, color, and more [see Manage your Navigation Data for more information].
- 3. Close: Press the EXIT key.

Add or Delete Points in a Route

1. Tap the route to select it. Tap the Route Name.

OR

Use the Cursor pad/Joystick to move the cursor to a route on the chart.

- 2. Tap the More icon $\bullet \bullet \bullet$ in the Cursor menu.
- 3. Tap the Edit icon 🖊 .
- 4. Select Add Point or Extend Route From Finish or Extend Route From Start.

Delete a Route in the Chart View

1. Tap the route to select it.

OR

Use the Cursor pad/Joystick to move the cursor to a route on the chart.

- 2. Tap the More icon ••• in the Cursor menu.
- 3. Tap the Delete icon 🔟.

Editing a Route on the Chart View



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.

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.

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*).

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.

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.

Set the AutoPilot Mode

- 1. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select AutoPilot Mode.
- 4. Tap, or press the ENTER key, to open the AutoPilot submenu.
- 5. Select Locked Heading or Locked Course.

Selecting the AutoPilot Mode



4 0 ß 9 $\hat{}$ ŵ 10:20 **1.5**^{mph} GPS COG 87 11.8 Ø х 75° -⊚

AutoPilot Navigation Mode in the Trolling Motor Virtual Remote

Locked Course AutoPilot mode

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.

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 (Navigation Menu)

1. Tap the Menu icon in the Top Bar, or press the MENU key once. Select Navigation.

OR

Press the NAVIGATION key.

- 2. Select AutoPilot.
- 3. To start navigation, turn on the trolling motor prop.

Cancel Navigation: Open the X-Press menu and select Navigation or press the NAVIGATION key. Then, select Cancel Navigation.

NOTE

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

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

- 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.

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

Yellow = On, Gray = Off

Cancel Navigation: Tap the X button.

Starting AutoPilot from the Trolling Motor Virtual Remote



MANAGE YOUR ADVANCED GPS NAVIGATION DATA

You can edit iTracks and Spot-Locks using the My 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 My Data tool, see your Humminbird operations manual for complete details.

Open the My Data Tool

- 1. Press the HOME key.
- 2. Select the My Data tool 炎.



Opening the My Data Tool from the Home Screen

Sort Lists

- 1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
- 2. Tap a column name, or move the Cursor pad/Joystick and press it on a column name. The first tap will sort the column low to high or A to Z. The second tap will sort it high to low or Z to A.

Filter Lists

- 1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
- 2. Tap the Filter icon 💳 in the Top Bar.
- 3. Select a category.

Select Data

- 1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
- 2. Tap the Select icon $\square \square$ in the Top Bar.
- 3. Select Select All to select each data point in the list.
- 4. Select an option from the Top Bar to apply to all selected data.

- 1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
- 2. Tap the Add icon 🕂 in the Top Bar.
- 3. Select one of the following menu options:

Add Menu Actions			
Waypoint at Position	Adds a Waypoint at the keyed in latitude and longitude.		
Group	Adds the selected data to a new or existing group.		
Import Nav Data	Transfer data to the selected media.		



Open the Data Info Menu

- 1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
- 2. Tap one of the data points.

Info Menu Actions

Tapping on a navigation data point will open the Info Menu. Use this menu to edit information about the navigation point and to start one of the following actions:

Info Menu Actions					
Cursor To	Select to display cursor at the data point in chart view.				
Navigation	Select to start navigation to the selected waypoint, spot-lock, route or track.				
Delete	Select to delete the selected navigation data.				
Export	Select to export navigation data to an SD card or to the One-Boat Network App.				

Manage iTracks

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.

iTrack Editing Options (from the Nav Data Tool)					
iTrack Name	Select the iTrack name and use the on-screen keyboard to change it. After renaming the iTrack, select Save.				
Color	Select a color.				
Visibility	To display the iTrack on the view, select On. To hide the iTrack on the view, select Off.				
My Data (Group Name)	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.				
Edit Notes (select Full Info)	Use the on-screen keyboard to add notes about the iTrack.				

iTrack Info Menu from the My Data Tool

selected iTrack—	â 🗘	- C3 IT0002				×	
		NAME			STYLE AND COLOF	3	
	Cursor To	IT0002	🖍 Group	My Data			
		NOTES			C		
				/		<u> </u>	edit color
. <u> </u>	Navigation	Visibility			Distance:	235.1 ft	
i Track action options					Bearing:	30.7 °T	
					iTrack Length:	150.1 ft	
	İ				Time:	1:29:50 PM	
	Delete				Date:	3/20/2025	iTrack info
					Edited:	1:29:50 PM	
					Edited:	3/20/2025	
	Û				Status:	SAVED	
	Export				Position: V	N 46.16047° V 93.74209°	

Delete a Saved iTrack

- 1. Select the iTrack tab.
- 2. Tap an iTrack, or use the Cursor pad/Joystick to select a spot-lock and press the ENTER key. The iTrack Info Menu will open.
- 3. 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

Edit a Saved Spot-Lock

- 1. Select the Spot-Locks tab.
- Tap a spot-lock, or use the Cursor pad/Joystick to select a spot-lock and press the ENTER key. The Spot-Lock Info Menu will open.
- 3. Select the Edit icon 🖍 in the field you want to edit.

NOTE

The Spot-Lock icon cannot be changed.

Spot-Lock Editing Options				
Spot-Lock Name	Select the Spot-Lock name and use the on-screen keyboard to change it. After renaming the Spot-Lock, select Save.			
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.			
Position	Use the on-screen keyboard to edit the latitude/longitude position of the waypoint.			
Depth	Use the on-screen keyboard to enter a depth for the Spot-Lock if it was not marked at th vessel position.			
Notes	Use the on-screen keyboard to add notes about the Spot-Lock.			
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.			
Spot-Lock Lable	Choose to display the spot-lock by its name, depth or no label.			

Delete a Saved Spot-Lock

- 1. Select the Spot-Locks tab.
- 2. Tap a spot-lock. The Spot-Lock Info Menu will open.
- 3. Tap Delete.

OR

- 1. Select the Spot-Locks tab.
- 2. Tap and hold on a spot-lock (or multiple spot-locks) to select it. There will be a check mark next to the spot-lock.
- 3. Tap Delete in the Top Bar.

Spot-Lock Info Menu from the My Data Tool

selected Spot-Lock	Ŷ	🕂 嶟 SL012					×	
	+ Cursor To	NAME SL012	1	Group	My Data	SPOT-LOCK		
	✓ Navigation	POSITION N 46.16129° W 93.74147°	/	DEPTH -	/		2	
Spot-Lock action options	A Move	NOTES			/	Distance: Bearing:	30.7 ft 329.1 °T	
	Save	Visibility			-	Altitude: Temperature:	- = -	
	Delete	SPOT-LOCK LABEL	Dep	oth	None	Time: Date:	11:11:23 AM 3/20/2025	 Spot-Lock info
	ট Export						=	

Import/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.

Import Navigation Data

Requirements: Humminbird navigation data saved as a GPX file.

- 1. Install the SD card (with navigation data) into the front fish finder port.
- 2. Press the HOME key.
- 3. Select the My Data tool.
- 4. Select Import.
- 5. Select a .GPX file. The navigation data will be imported to the fish finder.

Export Navigation Data

- 1. Install a formatted SD card into the front fish finder port or have the One-Boat Network App synced to your fish finder.
- 2. Press the HOME key.
- 3. Select the My Data tool.
- 4. Select Export All To...
- 5. Select a Save Location: Select which SD Card to save the data to, or select to transfer the data to the One-Boat Network App. 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).
- 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. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Eco Mode.
- 4. Tap Eco Mode On or Off.
- 5. When Eco Mode is turned On, the Eco Mode icon will display above the battery icon in the Trolling Motor Virtual Remote.

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 Trolling Motor Settings menu.

- 1. Select the One-Boat Network tool from the Home screen, or tap the Settings icon in the trolling motor virtual remote.
- 2. Under Trolling Motor, select Motor Setup.
- 3. Under Trolling Motor Settings, select Eco Mode.
- 4. Under Eco Mode, tap the check box to select Don't show Battery Saver Reminder.
- 5. Under Eco Mode, tap the check box to select Don't show Max Thrust Reminder.



Eco Mode Notification
CONTACT HUMMINBIRD

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



X.com (@humminbirdfish)



Instagram.com/humminbirdfishing



YouTube.com/humminbirdtv

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