LOWRANCE

SIMRAD

Recon™

Operator manual

English

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Trademarks

Warranty

This product's warranty is supplied as a separate document.

Safety, disclaimer and compliance

This product's safety, disclaimer and compliance statements are supplied as a separate document.

More information

Document version: 001

This document was prepared using software version 1.0.

Features described and illustrated in this guide may vary from your unit due to continuous development of the software.

For the latest version of this document in supported languages, and other related documentation, visit: **www.lowrance.com/downloads/recon** or **www.simrad-yachting.com/downloads/recon**.

Contact us

For product support and service information, visit: **www.lowrance.com/contact-us** or **www.simrad-yachting.com/contact-us**.

CONTENTS

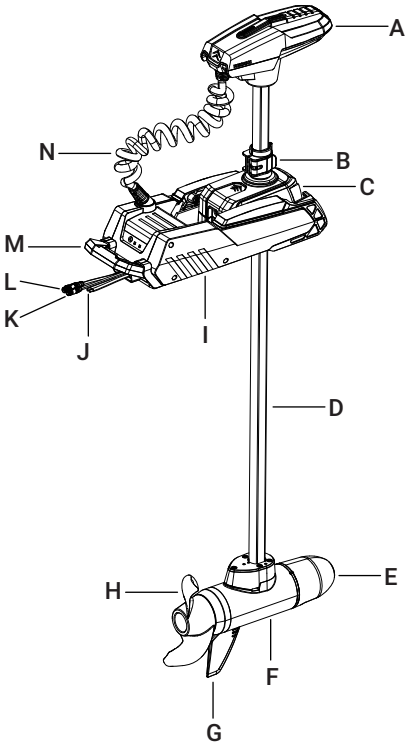
INTRODUCTION

This manual is a guide for operating the Recon trolling motor.

For information related to installing the trolling motor, refer to the Recon Installation Manual.

SYSTEM COMPONENTS

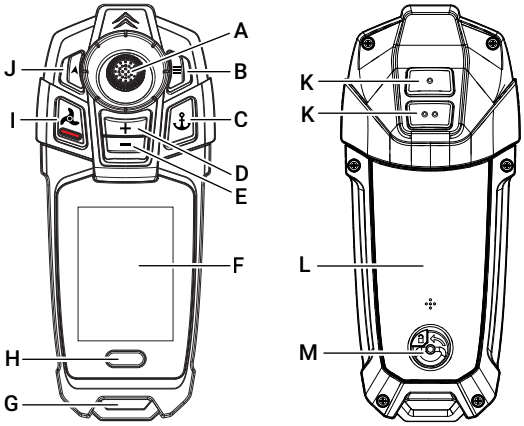
Recon trolling motor (deployed)



- **A** Head
- **B** Cam lock depth collar
- **C** Steering transmission
- **D** Column
- **E** Nose cone
- **F** Lower unit
- **G** Skeg
- **H** Propeller
- **I** Mount
- **J** Power cable
- **K** Sonar cable
- **L** NMEA 2000® cable
- **M** Stow/deploy release lever
- **N** Coil cable

FreeSteer joystick remote

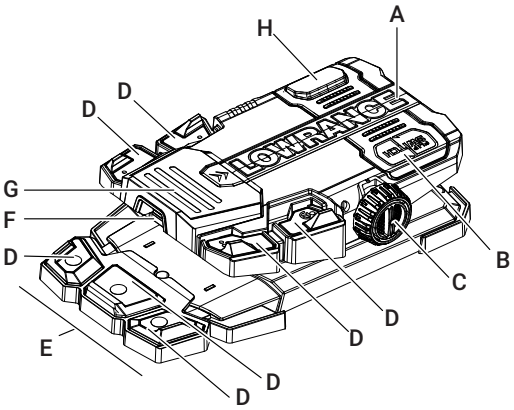
The trolling motor can be configured, calibrated, and operated using the FreeSteer Joystick Remote.



- **A** Joystick
- **B** Power ON/OFF / Menu
- **C** Anchor lock ON/OFF
- **D** Propeller speed increase
- **E** Propeller speed decrease
- **F** LCD display
- **G** Lanyard attachment
- **H** In-mode soft key
- **I** Propeller ON/OFF / Cancel all
- **J** Autopilot ON/OFF
- **K** Programmable keys
- **L** Battery cover
- **M** Battery cover lock

Advanced wireless foot pedal

The trolling motor can be calibrated and operated using the Advanced Wireless Foot Pedal.



- **A** Toe end
- **B** Battery compartment
- **C** Speed adjustment knob
- **D** Mode/action keys
- **E** Removable lower key module
- **F** Power ON/OFF
- **G** Heel end
- **H** Momentary switch

Multi-function display

A multi-function display (MFD) can be used to set up and operate the trolling motor.

Compatible MFDs are:

- Lowrance HDS Pro, HDS Live, HDS Carbon or Elite FS on the latest software
- Simrad® NSX, NSSevo3S or NSOevo3S on the latest software

Operation interfaces vary between models. Ensure your MFD software is up to date, and check online for updates to your MFD's documentation.

Please note, a MFD is required to:

- Display and operate the trolling motor sonar
- Operate some accessories such as Power-Pole® anchors
- Access advanced navigation functions
- Transfer software updates to the trolling motor, if your mobile device is low on battery.

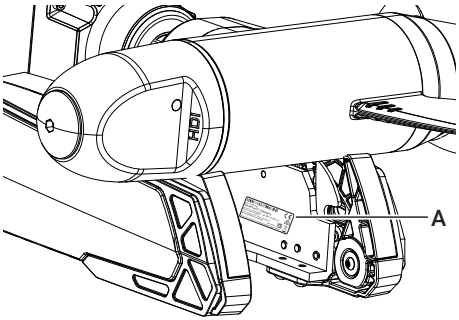
Mobile app

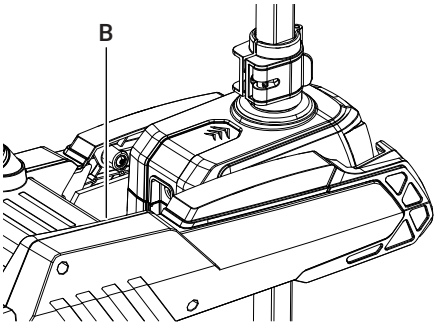
A mobile device with the Lowrance or Simrad® app can be used to configure and calibrate the trolling motor, after you register the trolling motor to your profile.

Record serial number

It is important to record the serial number and model number for future reference.

Your trolling motor comes with two labels that display its serial number; one on the inside of the mount, which is easily accessed when the trolling motor is stowed (**A**), and the other in the recess behind the steering transmission, which is easily accessed when the trolling motor is deployed (**B**).





Register product

Scan the QR code® below for your brand of Recon trolling motor and start registering your trolling motor via your Lowrance or Simrad® mobile app.

Lowrance

Simrad®

If you don't already have the Lowrance or Simrad® mobile app, the QR code® directs you to your device's app store, where you can install the app in one click, create an account and start registering your trolling motor.

Later, when your trolling motor is installed, powered on and in pairing mode (refer to the Recon operator manual for instructions), your mobile app will automatically connect to your trolling motor over Bluetooth® and complete the registration process by storing your trolling motor's serial number.

Using the Lowrance® or Simrad® mobile app allows you to access trolling motor settings, see your trolling motor status, and view diagnostic error codes and descriptions.

→ ***Note:*** *Your trolling motor can only be registered to one mobile app account.*

Alternatively, you can register your trolling motor by completing the form at **www.lowrance.com/mfdreg** or **www.simrad-yachting.com/mfdreg**.

SAFETY: READ BEFORE OPERATION

Boater's responsibilities

The operator (driver) is responsible for the correct and safe operation of the boat and safety of its occupants and general public. It is strongly recommended that each operator (driver) read and understand this entire manual before operating the trolling motor.

Ensure at least one additional person on board is instructed in the basic operation of the trolling motor in case the driver is unable to operate the boat.

The operator and all passengers should wear (or carry) flotation devices in accordance with local law.

Operators should report boating accidents to their local boating law enforcement agency.

Protecting people in the water

While you are trolling

It is difficult for a person in the water to take quick action to avoid a boat heading in their direction, even at slow speeds. Always slow down and exercise extreme caution any time you are boating in an area where there might be people in the water.

While the boat is stationary

⚠ WARNING: **A spinning propeller, a moving boat, or any solid device attached to the boat can cause serious injury or death to swimmers. Stop the trolling motor immediately whenever anyone in the water is near your boat.**

Unplug the trolling motor before allowing people to swim or be near the propeller of the trolling motor.

Whenever the boat is in motion, observe the location of all passengers. A sudden reduction in boat speed, such as a sharp change of boat direction, could throw them off the boat.

The operator must have an unobstructed view particularly to the front. No passengers, load, or fishing seats should block the operator's view when operating the boat.

Reduce speed and proceed with caution whenever navigating in shallow water.

TURN ON AND CONNECT

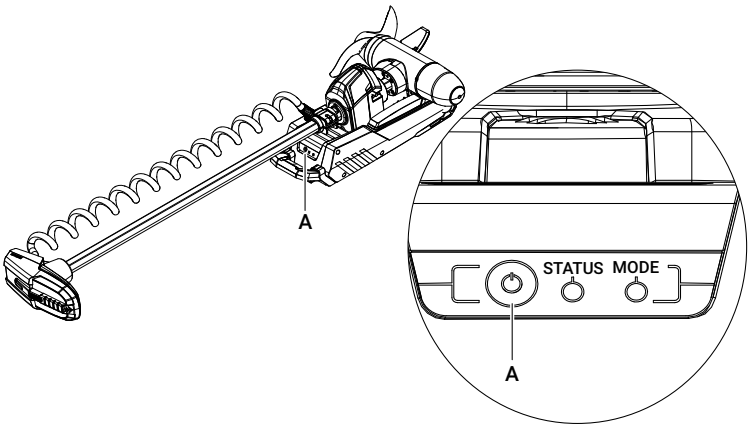
These procedures assume your trolling motor has already been installed and wired according to instructions in the Recon Installation Manual.

Turn on trolling motor

The trolling motor will turn on automatically as soon as power is supplied to it. The trolling motor sounds three quick tones, and all its LEDs illuminate blue as it powers up.

To turn on the trolling motor if it is off, press and release the power key (**A**) on the rear of the mount.

To turn off the trolling motor, press and release the power key (**A**) again.



→ ***Note:*** *Other system devices, such as remote controls, foot pedals, and display units, need to be powered on individually.*

Ready for operation

When the trolling motor is ready for operation:

- The **STATUS** LED (left) changes from blue to a color showing the status of the trolling motor power supply, and
- The **MODE** LED (right) changes from blue to a color showing the GPS status of the trolling motor (red no GPS signal; green for GPS signal).

→ ***Note:*** *It may take several seconds for the trolling motor to acquire a GPS signal. Manual and Heading lock modes can be used without GPS. For more information, refer to* **GPS** *on page* **36**.

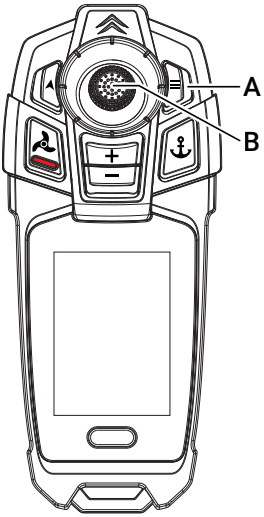
For more information about the trolling motor LED indicator lights and tones, refer to page **14**.

Turn on remote

Press and hold the menu key ☰ on the top right of the remote (**A**) to turn on the FreeSteer remote.

➔ ***Note:*** *Press and release the same key to display the main menu.*

To turn off the remote, press and hold the menu key (**A**) again.



A Power ON/OFF and Menu key

B Joystick

Ready for operation

The remote will connect to the trolling motor via Bluetooth® automatically, if it has been paired before and if the trolling motor is switched on and within range. For more information about connecting, refer to **Pair devices** on page **12**.

When the FreeSteer remote is ready for operation, its LCD screen displays:

- **Stowed** if the trolling motor is powered on and stowed, or
- **Manual** if the trolling motor is powered on and deployed (with the propeller not yet engaged).

Navigate menus

1 Press and release the menu key ☰ on the remote (**A**, above) to display the main menu.

2 Move the joystick (**B**, above) forward or back to select options in the menu.

3 Center-press and release the joystick to open or enable a selected option.

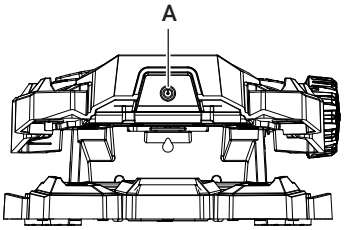
For information about all the keys on the FreeSteer remote, refer to page **31**.

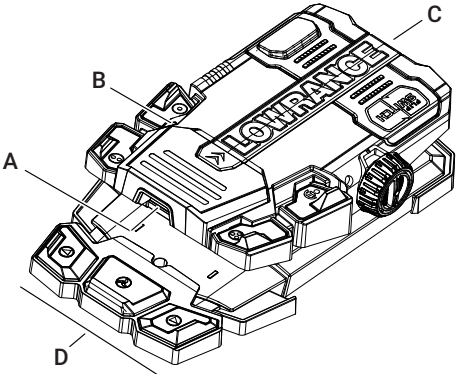
Turn on foot pedal

If your foot pedal is wired to a 12 V supply, it will turn on automatically as soon as the power supply is connected.

If you are using AA batteries to power the foot pedal, press and release the power key (**A**) under the heel end of the foot pedal to turn on the foot pedal.

To turn off the foot pedal, press and release the power key (**A**) again.





A Foot pedal power key

B Foot pedal status and battery indicator light

C 12 V power cable (optional installation)

D Lower key module (can be removed)

Start up and ready for operation

The LED on the foot pedal (**B**, above) shows blue as the foot pedal powers up.

The LED then changes color to signal the battery level, then Bluetooth® connection status.

For more information about the foot pedal indicator LED, refer to page **16**.

Pair devices

⚠ WARNING: **Using unapproved accessories to control your motor may cause damage, unexpected motor operation, and/or injury. Use approved parts and accessories, including controlling devices such as remotes, safely and in the manner directed to avoid accidental or unexpected motor operation.**

Remote controls, foot pedals, and mobile devices with the app communicate with the trolling motor using Bluetooth®.

Bluetooth® pairing is the process when devices share and save the information that allows them to recognize each other and send and receive data (connect) in the future. After a device is first paired to the trolling motor, it will connect to the trolling motor automatically whenever the trolling motor and device are powered on and within range of each other.

→ ***Note:*** *Devices have an expected maximum operating range of 25 m (80 ft) from the trolling motor, under ideal conditions with a clear line of sight.*

→ ***Note:*** *Up to five devices can be connected to the trolling motor at once.*

→ ***Note:*** *To use your boat's multi-function display (MFD) with your trolling motor, the MFD and trolling motor must be connected on the same NMEA 2000® network. Refer to the installation manual for your MFD for information about NMEA 2000® networks.*

Accessories that come in the box with the trolling motor are already paired to the trolling motor.

However, accessories purchased separately from the trolling motor, or accessories that have had a factory reset performed, will need to be paired as part of their first connection to the trolling motor.

To pair a device to the trolling motor, both the trolling motor and the device must be:

- Powered on
- Less than 4 m (13 ft) apart
- In Bluetooth® pairing mode.

Trolling motor

To put the trolling motor into Bluetooth® pairing mode, press and hold the power key at the rear of the mount.

The LEDs on the mount, and the indicator on the trolling motor head, blink blue when the trolling motor is in pairing mode.

Remote

→ ***Note:*** *If the FreeSteer Joystick Remote came in the same box as the trolling motor, it is pre-paired to the trolling motor. It is not necessary to pair it again.*

If you need to pair a FreeSteer Joystick Remote to your trolling motor, follow these steps:

1 Press and release the menu key ☰ on the remote to open the menu.

2 Use the joystick to move through the menu options, and center-press the joystick to select an option. Navigate to **Settings > Remote > Bluetooth > Pair device**.

3 Follow the instructions on-screen to put the trolling motor into Bluetooth® pairing mode and pair the remote to the trolling motor.

→ ***Note:*** *A FreeSteer remote can only be paired with one trolling motor at a time. This means that a FreeSteer remote only connects to the most recently-paired trolling motor. However, one trolling motor can have more than one FreeSteer remote paired with it.*

Foot pedal

→ ***Note:*** *If the Advanced Wireless Foot Pedal came in the same box as the trolling motor, it is pre-paired to the trolling motor. It is not necessary to pair it again.*

If you need to pair an Advanced Wireless Foot Pedal to your trolling motor, follow these steps:

1 Put the trolling motor into Bluetooth® pairing mode by pressing and holding the power key at the rear of the trolling motor mount.

2 To put the foot pedal into Bluetooth® pairing mode, press and hold the power key at the rear of the foot pedal.

The status LED on the foot pedal flashes blue rapidly to show the pedal is in pairing mode. It displays solid blue briefly to show successful pairing. Thereafter a slow blue flash shows the foot pedal is connected to the trolling motor.

→ ***Note:*** *An Advanced Wireless Foot Pedal can only be paired with one trolling motor at a time. This means that the pedal only connects to the most recently-paired trolling motor. However, one trolling motor can have more than one Advanced Wireless Foot Pedal paired with it.*

Mobile device

To pair a mobile device running the Lowrance or Simrad® app to the trolling motor, open the app and follow the instructions on-screen.

→ ***Note:*** *Pairing is established within the app, not from the Bluetooth® settings on your mobile device.*

Unpair devices from the trolling motor

The trolling motor can have up to eight devices paired to it.

To unpair **all** devices paired to a trolling motor, refer to **Factory reset trolling motor** on page **58**

Remote

To unpair a FreeSteer Joystick Remote from the trolling motor, refer to **Restore defaults** on page **58**.

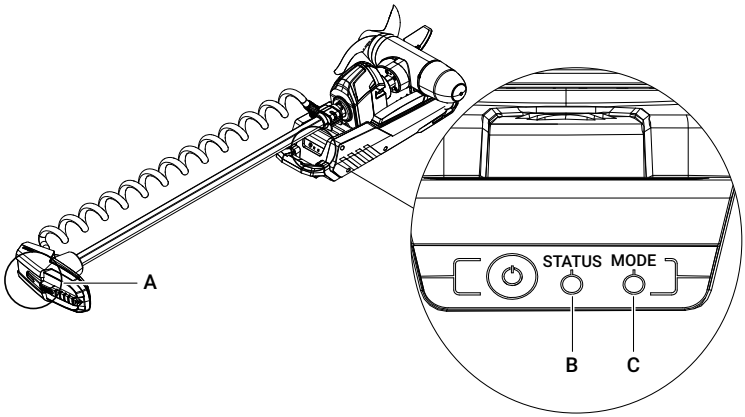
Foot pedal

To unpair an Advanced Wireless Foot Pedal from the trolling motor, refer to **Restore defaults** on page **58**.

Status indicator LEDs and tones

The trolling motor uses a range of tones and indicator lights to signal its current status.

LEDs and audible tones on trolling motor



A Indicator LED on trolling motor head

B **STATUS** LED

C **MODE** LED

Audible tones	Blue head indicator light	STATUS (left) LED on mount	MODE (right) LED on mount	Meaning
Three tones (ascending)	One long then two short flashes	Both solid blue		Trolling motor powering up
Single short tone	Solid blue	None	Solid blue	Propeller, Autopilot, or Anchor lock engaged
None	Blue, slow flash	None	Solid blue	Propeller paused in Anchor lock or and Autopilot mode
Two short tones, same pitch	Blue light goes OFF	None	Change from blue (to green or red, indicating GPS status)	Propeller, Autopilot, or Anchor lock disengaged
Two short tones (ascending)	None	None	Solid green	GPS connected
Two short tones (descending)	None	None	Solid red	No GPS fix
None	Blue, rapid flash	Both blue, flashing between left/right		Trolling motor in Bluetooth® pairing mode

Audible tones	Blue head indicator light	STATUS (left) LED on mount	MODE (right) LED on mount	Meaning
Two short tones (descending)	None	None	None	Requested action declined
Single long tone	None	Both red, flashing between left/right		Fault
None	Blue, slow flash	Both white, flashing between left/right		Software update is in progress
None	None	Cyan (blue-green)	None	Trolling motor 24 V power supply good (greater than 40%)
None	None	Green	None	Trolling motor 36 V power supply good (greater than 40%)
None	None	Orange	None	Monitor trolling motor power (supply between 20% and 40%)
None	None	Red	None	Trolling motor power supply less than 20%
None	None	Flashing red	None	Trolling motor power supply is critically low

→ ***Note:*** *It is normal for the trolling motor not to have a GPS fix when stowed.*

→ ***Note:*** *The trolling motor is set to 24 V by default.*

During calibration

Audible tones	Blue head indicator light	STATUS (left) LED on mount	MODE (right) LED on mount	Meaning
None	None	Both blue, flashing		Trolling motor in user configuration mode: proceed with calibration
Two short tones (ascending)	None	Both green, flashing between left/right for a few seconds		Calibration successful
Two short tones (descending)	None	Both red, flashing between left/right for a few seconds		Calibration failed
None	None	Color indicating battery status	Green or red, indicating GPS status	Trolling motor exited user configuration mode and returned to Manual mode

LED on foot pedal

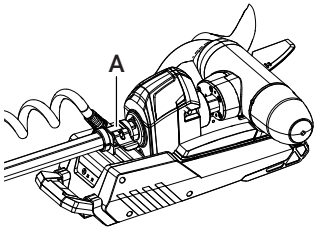
There is a status LED on the left top surface of the foot pedal.

	Foot pedal LED	Meaning
Sequence when foot pedal turns on	Blue, two quick flashes	Foot pedal is powering up
	Green or orange or red	Foot pedal power supply: Green: Foot pedal power supply is good (greater than 40%) Orange: Less than 40% Red: Less than 20%
	Slow red flash	Bluetooth® connection: searching
	Solid blue, then OFF	Bluetooth® connection: connected
Operation	Slow blue flash	Foot pedal has a Bluetooth® connection to the trolling motor
	Rapid blue flash	Foot pedal is in Bluetooth® pairing mode
	Slow white flash	A software update is in progress
	Slow red flash	Fault

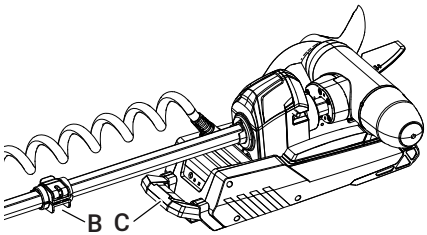
DEPLOY AND STOW

Deploy trolling motor

1 Unlock the cam lock depth collar by folding back the locking lever (**A**).



2 Slide the cam lock depth collar away from the steering transmission, re-locking it part way up the column (**B**).



3 Hold the trolling motor by its column or under its head, and press down on the stow/deploy release lever (**C**, above).

4 While the stow/deploy release lever is depressed, slide the trolling motor forward and out of its cradle. The weight of the lower unit makes the trolling motor and steering transmission pivot downwards.

⚠ WARNING: Avoid injury due to the sudden shifting of weight when deploying the motor or adjusting the motor depth. When raising or lowering the motor, firmly grasp the trolling motor by its column before opening the cam lock depth collar. There is also a recess on the underside of the trolling motor head where you can hold the trolling motor to support it.

⚠ WARNING: Do not use the coil cable as a handle when raising or lowering the motor.

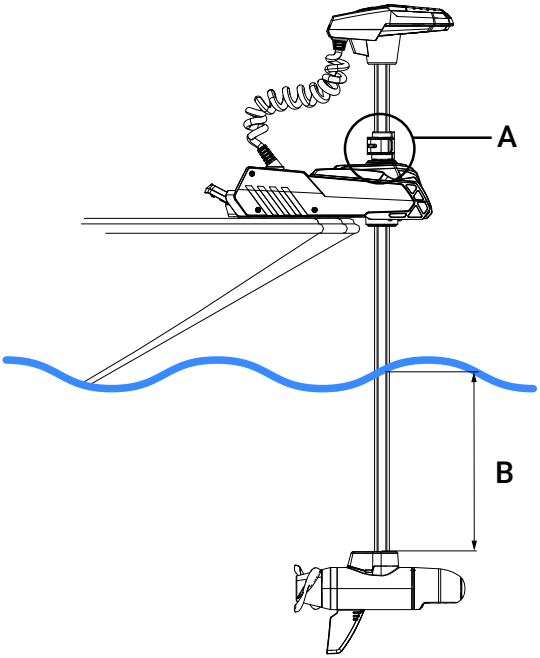
5 Release the stow/deploy lever to its neutral position.

6 When the trolling motor is vertical, the locked cam lock depth collar on the column prevents the motor from descending further. Pull back on the column to ensure it's securely locked into the deployed position.

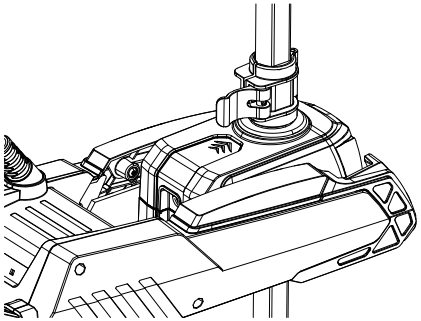
⚠ WARNING: The trolling motor will automatically rotate to its keel-aligned position every time the trolling motor is deployed, if the bow offset has been calibrated.

Adjust motor depth

Use the cam lock depth collar (**A**) on the trolling motor column to adjust the motor depth. Optimal depth of the lower unit depends on the boat type, water conditions, and the underwater terrain. If you hear the propeller blades splashing against the water surface, or cavitating, lower the lower unit. When adjusting the motor depth, ensure the lower unit is fully submerged, at least 300 mm (12 in) below the water surface (**B**).

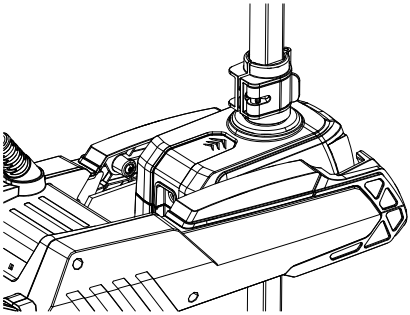


1. Ensure the propeller is not spinning before adjusting the depth of the motor.
2. Firmly grasp the trolling motor either by the column or the recess on the underside of the trolling motor head to support it.
3. Open the cam lock depth collar. Be aware the trolling motor can now move downward under the weight of the lower unit.



4 Raise or lower the trolling motor to the desired depth.

5 Guide the cam lock depth collar down to rest against the transmission (grip the collar from its base, not by its locking lever). Close the cam lock depth collar to secure the lower unit at the desired depth.



Stow trolling motor

⚠ WARNING: Always stop the propeller before stowing the trolling motor. Never start or operate the motor out of water.

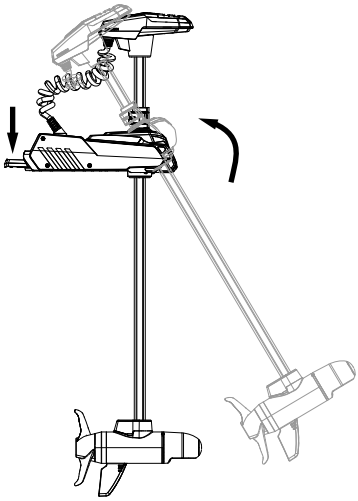
⚠ WARNING: Moving parts, such as hinges and pivot points, can cause serious injury. Keep away from moving parts when stowing, deploying, or tilting the motor.

Ensure the propeller is not spinning, and ensure there is sufficient clearance around the trolling motor before lifting the motor into stowed position.

1 Press down on the stow/deploy release lever. The trolling motor will turn to the 90° **Prop out** stowing position by default. To change the auto-stow orientation, refer to **Stow direction** on page **23**.)

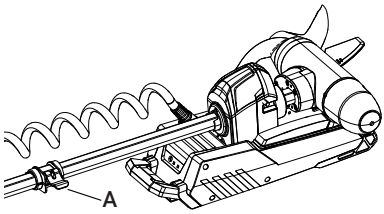
2 Hold the trolling motor using the recesses on the underside of its head.

3 While the release lever is depressed, pull the trolling motor up and tilt it back towards the mount. The column moves up through the steering transmission.

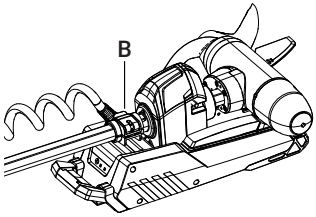


4 As the trolling motor column approches the mount, release the stow/deploy lever so that the latch can secure the lower unit in the mount cradle.

5 When the trolling motor is stowed parallel to the boat deck, unlock the cam lock depth collar (**A**).



6 Guide the unlocked cam lock depth collar down the column, and lock it against the transmission (**B**).

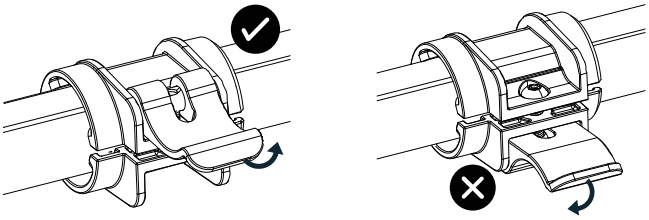


⚠ WARNING: We recommend you lock the cam lock depth collar firmly against the transmission any time the boat is underway or trailered.

→ ***Note:*** *It is normal for the trolling motor to lose its GPS signal while stowed.*

Change opening side on collar (optional)

The cam lock depth collar on the trolling motor column should open and close from the top surface of the column when the motor is stowed.



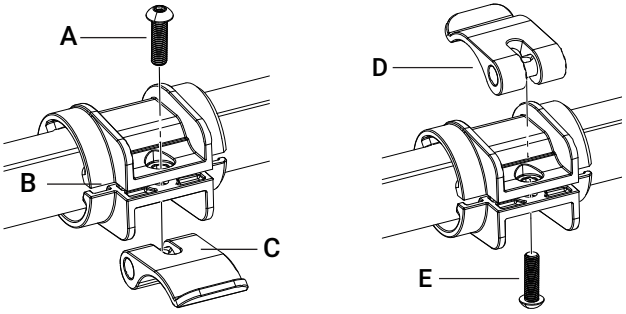
If the cam lock depth collar opens from the underside of the column, follow these steps to adjust it:

→ ***Note:*** *The trolling motor must be stowed for this procedure.*

1 Spread a towel under the trolling motor column to prevent parts from rolling away if they fall.

2 Use a 5/32 (4 mm) Allen key to remove the depth collar bolt (**A**) securing the collar (**B**).

3 Separate the locking lever (**C**) from the collar. Take care not to lose the metal barrel that's free to move inside the locking lever.



4 Flip the locking lever 180° and reposition it (with the metal barrel inside it) on the top surface of the column (**D**).

5 Install the bolt from the underside of the collar (**E**) and torque to 1.7 Nm (1.3 lb-ft).

6 Before further use, test the collar can lock securely on the trolling motor column.

→ ***Note:*** *The cam lock depth collar should not slide when the lever is closed, and it should slide freely when the lever is fully opened. When sliding the cam lock depth collar, hold it by the collar, not by the open locking lever.*

7 To adjust collar tightness, close the locking lever and tighten or loosen the depth collar bolt a quarter turn at a time, testing after each adjustment.

SETTINGS

Use any of the following devices to configure your trolling motor's basic settings:

- FreeSteer Joystick Remote
- Mobile device with the Lowrance or Simrad® app
- Compatible multi-function display (MFD).

→ ***Note:*** *Always ensure your MFD software is up to date, and refer to the MFD's documentation for details.*

The device you are using to configure settings must be powered on and connected to the trolling motor.

Access settings via remote

1 Ensure the trolling motor and remote are powered on and connected with each other.
2 Press and release the menu key ☰ on the remote to open the menu.
3 Use the joystick to navigate to **Settings > Trolling motor.**

Access settings via mobile app

1 Ensure the trolling motor and your mobile device are powered on and connected with each other.
2 Open the Lowrance or Simrad® app on your mobile device, and navigate to **My devices**.
3 Select your trolling motor from the list of devices stored against your profile.
4 When the trolling motor home screen opens, navigate to **Settings > Trolling motor**.

Boat scale

The Boat scale setting changes the intensity of the trolling motor's corrections when it uses GPS to maintain a position or speed setting.

Boat scale is set to 0 (neutral) by default.

- **Negative values** adjust the trolling motor's response to be more gentle, for smaller and lighter boats.
- **Positive values** adjust the trolling motor's response to be more aggressive, for larger and heavier boats.

Assign a value from −5 to +5, according to the size of your vessel and the environmental conditions.

Arrival mode

Arrival mode is a setting that determines how the trolling motor behaves when it completes a navigation sequence such as traveling to a waypoint.

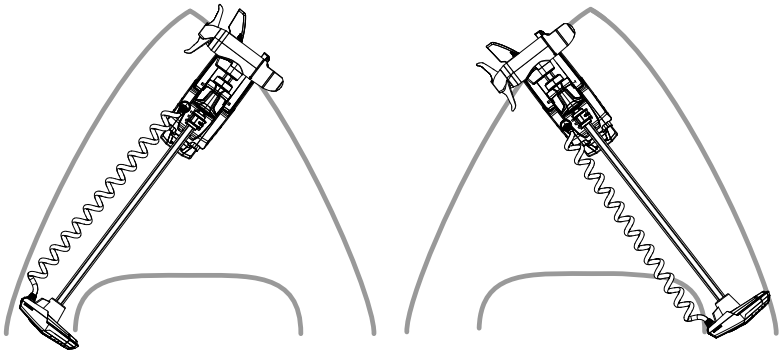
- **Standby.** Standby is the default setting for Arrival mode. When the boat arrives at the navigation endpoint, the propeller will disengage and the trolling motor will enter Standby mode.
- **Anchor.** When the boat arrives at the navigation endpoint, the trolling motor will enter Anchor lock mode. For more information, refer to **Anchor lock mode** on page **40**.
- **Course.** When the boat arrives at the navigation endpoint, the trolling motor will enter Course lock mode (and will continue moving on the current course with the current propeller speed or set speed over ground). For more information, refer to **Autopilot modes (Course lock and Heading lock)** on page **44**.
- **Heading.** When the boat arrives at the navigation endpoint, the trolling motor will enter Heading lock mode (and will continue moving with the current propeller speed or set speed over ground, while maintaining the current heading). For more details, refer to **Autopilot modes (Course lock and Heading lock)** on page **44**.

Stow direction

The trolling motor rotates to the stow direction configured for the lower unit when the stow/deploy release lever is pressed while the trolling motor is deployed.

- **Prop out:** The propeller is on the port side of the mount when the trolling motor is stowed.
- **Prop in:** The propeller is on the starboard side of the mount when the trolling motor is stowed.
- **Off**: The trolling motor must be turned manually to stow flat against the mount cradle, either **Prop out** or **Prop in**.

→ ***Note:*** *The descriptions* ***Prop out*** *and* ***Prop in*** *are defined relative to a port-mounted trolling motor, however, you can install the trolling motor in any location that meets the requirements described in the Recon Installation Manual.*



Trolling motors stowed **Prop out**

⚠ WARNING: **If accessories such as transducers are installed, set the Stow direction in the system settings so accessories are protected from hitting the trolling motor mount.**

→ ***Note:*** *If your preferred stow direction results in the cam lock depth collar opening from the underside of the trolling motor column, refer to* ***Change opening side on collar (optional)*** *on page* ***20****.*

Autopilot

The two Autopilot functions are Course lock mode and Heading lock mode. The Autopilot key ▲ on the FreeSteer remote starts and stops the assigned Autopilot mode.

Course lock mode, with propeller auto on disabled, is the default setting.

Remote

To change the default Autopilot mode to Heading lock mode, navigate to **Menu > Settings > Trolling motor**. Select **Autopilot > Heading lock**.

Mobile app

To change the default Autopilot mode to Heading lock mode, navigate to **My devices > Trolling motor > Settings > Trolling motor**. Select **Autopilot > Heading lock**.

Prop auto on

This setting automatically engages the propeller when you enter an Autopilot mode. The setting is disabled by default.

- **Prop auto on** enabled. If the propeller is not engaged when you enter an Autopilot mode, the propeller engages automatically. If the propeller is engaged when you enter an Autopilot mode, it will remain engaged.
- **Prop auto on** disabled. If the propeller is not engaged when you enter an Autopilot mode, the propeller must be engaged manually. If the propeller is engaged when you enter an Autopilot mode, it will remain engaged.

Remote

Navigate to **Menu > Settings > Trolling motor > Autopilot** and select **Prop auto on**.

Mobile app

Navigate to **My devices > Trolling motor > Settings > Trolling motor > Autopilot Prop Auto** and select **On**.

Battery voltage

Select whether a 24 V source or 36 V source is powering the trolling motor. The setting is 24 V by default.

Audible tones

This setting determines how often audible tones are emitted from the trolling motor head.

- **Off**
- **Limited**
- **Default**
- **Full**

Motor LED

These settings determine when the indicator LED on the trolling motor head illuminates. The setting is On when prop on by default.

- **Always on.** Illuminated whenever the trolling motor has power. This allows you to check the direction of the lower unit.
- **On when prop on.** The indicator LED lights whenever the propeller is engaged and when the trolling motor is in an active mode.
- **Always off.** The indicator LED never lights.

Dim settings controls the brightness of the **STATUS** and **MODE** LEDs on the trolling motor mount, as well as the indicator LED on the trolling motor head.

- **Low**
- **High**
- **Sync with MFD backlight**

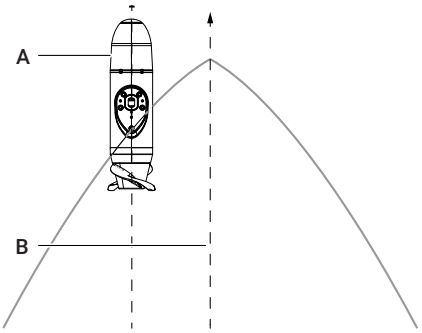
CALIBRATION

Before operating the trolling motor for the first time, it's essential to undertake some calibration procedures. Failure to complete basic calibration may result in your trolling motor and steering not functioning as expected.

⚠ WARNING: **Do not operate the propeller when the trolling motor is out of the water. The lower unit will move during calibration.**

Calibrate bow offset

The bow offset calibration establishes the straight-ahead direction for the trolling motor, even if the trolling motor is mounted at an angle to the bow. In the process of calibrating the bow offset you rotate the deployed trolling motor so that the lower unit (**A**) is pointing forward, parallel to the keel/centerline (**B**) of your vessel.



Perform the bow offset calibration when:

- You first use the trolling motor after installation
- The mounting position of the trolling motor has changed (including if you have moved the quick-release mounting plate accessory)
- You have performed a factory reset on the trolling motor.

The trolling motor must be powered on and connected (via Bluetooth®) to the device you are using for calibration.

The trolling motor needs to be fully deployed before you start this procedure.

The calibration can be performed off-water with the boat on the trailer if the lower unit can spin 360° without interruption. Otherwise ensure the boat is secured to a dock, where it won't be moved by wind or current, and that there is space for the lower unit to move freely.

➔ ***Note:*** *You are required to move the lower unit during the calibration. After a successful calibration, the trolling motor turns to its centerline position.*

Remote

1 Ensure the trolling motor and remote are powered on and connected with each other.

2 Press the menu key ☰ on the remote to open the menu.

3 Use the joystick to navigate to **Settings > Trolling motor > Bow offset**.

4 Follow the steps displayed on the remote's screen.

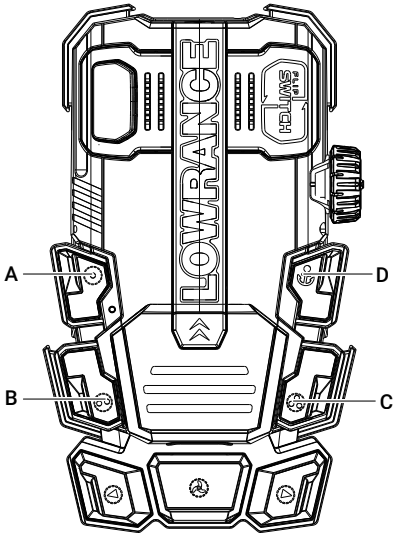
➔ ***Note:*** *When the FreeSteer Remote is turned on for the first time, there is an onboarding sequence that includes the option to complete the compass calibration and bow offset calibration for the trolling motor.*

Foot pedal

1 Ensure the trolling motor and the foot pedal are powered on and connected with each other.

2 Enter user configuration mode on the foot pedal by pressing and holding the •• and •• keys (**B** and **C**) simultaneously.

The **STATUS** and **MODE** LEDs on the trolling motor mount flash blue to show the trolling motor is in user configuration mode.



3 Press the foot pedal to turn the lower unit of the trolling motor so that the lower unit is parallel to the centerline (keel) of the boat.

4 With the lower unit correctly aligned, press the Anchor key ⚓ on the foot pedal (**D**) to set the bow offset.

Two tones (ascending) sound, and the **STATUS** and **MODE** LEDs on the mount flash green, left-right, for a few seconds to confirm a successful calibration.

→ ***Note:*** *If the calibration fails, two tones (descending) sound, and the **STATUS** and **MODE** LEDs on the mount flash red, left-right, for a few seconds before returning to flashing blue. The trolling motor remains in user configuration mode. Reattempt the calibration by repeating steps (**3**) and (**4**).*

5 After a successful calibration, the trolling motor automatically exits user configuration mode and returns to Standby mode.

The **STATUS** LED changes from flashing blue to a solid color indicating the trolling motor battery status. The **MODE** LED changes from flashing blue to solid green indicating the motor has a GPS fix (or solid red indicating the motor does not have a GPS fix).

Mobile app

1 Ensure the trolling motor and your mobile device are powered on and connected with each other.

2 Open the Lowrance or Simrad® app on your mobile device, and navigate to **My devices**.

3 Select your trolling motor from the list of devices stored against your profile.

4 When the trolling motor home screen opens, open the **Settings** menu and navigate to **Calibration**.

5 Follow the steps displayed in the app.

Calibrate compass

The trolling motor's compass is inside the trolling motor head.

Perform the compass calibration when:

- You first use the trolling motor after installation
- Your boating location has changed significantly (for example, if you have moved countries) because the magnetic deviation varies at different locations on Earth
- You have performed a factory reset on the trolling motor.

The trolling motor must be powered on and connected (via Bluetooth®) to the device you are using for calibration.

The trolling motor needs to be deployed for this procedure.

The calibration can be performed off-water (with the boat on the trailer outdoors) if the lower unit can spin 360° without interruption. Otherwise ensure the boat is secured to a dock, where it won't be moved by wind or current, and that there is space for the lower unit to move freely. Also make sure the trolling motor is not close to large metal objects or current-carrying devices whose magnetic fields could mis-calibrate the compass.

→ ***Note:*** *During calibration, the deployed trolling motor (lower unit, column, and head unit) moves automatically to rotate 400° (approximately one and one eighth turns).*

After a successful calibration, the trolling motor automatically returns to its centerline position.

Remote

1 Ensure the trolling motor and remote are powered on and connected with each other.

2 Press the menu key ☰ on the remote to open the menu.

3 Use the joystick to navigate to **Settings > Trolling motor > Compass calibration.**

4 Follow the steps displayed on the remote's screen.

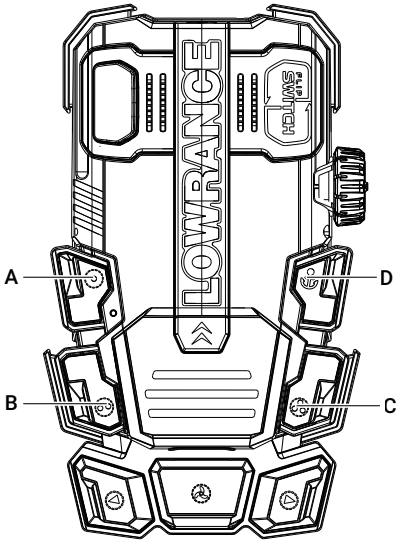
→ ***Note:*** *When the FreeSteer Remote is turned on for the first time, there is an onboarding sequence that includes the option to complete the compass calibration and bow offset calibration for the trolling motor.*

Foot pedal

1 Ensure the trolling motor and the foot pedal are powered on and connected to each other.

2 Enter user configuration mode on the foot pedal by pressing and holding the ●● and ●●● keys (**B** and **C**) simultaneously.

The **STATUS** and **MODE** LEDs on the trolling motor mount flash blue to show the trolling motor is in user configuration mode.



3 Press and release the ●●● key (**C**). The deployed trolling motor will move automatically for several seconds, rotating about 400°.

A long tone sounds at the end of the compass calibration.

Two tones (ascending) sound, and the **STATUS** and **MODE** LEDs on the mount flash green, left-right, for a few seconds to confirm a successful calibration.

→ ***Note:*** *If the calibration fails, two tones (descending) sound, and the* ***STATUS*** *and* ***MODE*** *LEDs on the mount flash red, left-right, for a few seconds before returning to flashing blue. The trolling motor remains in user configuration mode. Reattempt the calibration by repeating step (****3****).*

4 After a successful calibration, the trolling motor automatically exits user configuration mode.

The trolling motor rotates to its centerline position, and enters Standby mode.

The **STATUS** LED changes from flashing blue to a solid color indicating the trolling motor battery status. The **MODE** LED changes from flashing blue to solid green indicating the motor has a GPS fix (or solid red indicating the motor does not have a GPS fix).

Mobile app

1 Ensure the trolling motor and your mobile device are powered on and connected with each other.

2 Open the Lowrance or Simrad® app on your mobile device, and navigate to **My devices**.

3 Select your trolling motor from the list of devices stored against your profile.

4 When the trolling motor home screen opens, open the **Settings** menu and navigate to **Calibration**. Follow the steps displayed in the app to calibrate the compass.

FREESTEER JOYSTICK REMOTE

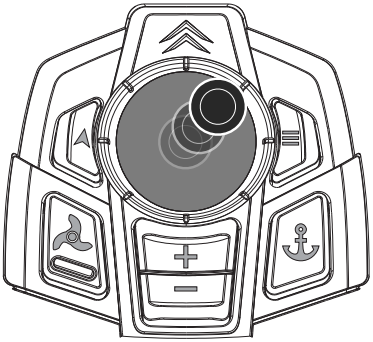
The joystick offers both traditional keypad-style steering, and proportional 360° steering (**FreeSteer**).

FreeSteer

1 Move and hold the joystick to enter FreeSteer from any trolling motor mode.

2 With FreeSteer, joystick motion is not confined to forward-back-left-right. To adjust direction, simply move and hold the joystick anywhere on the joystick's 360° horizon, and the trolling motor lower unit turns to match the direction of the joystick.

3 Release the joystick to end FreeSteer and automatically resume the mode you were in, with the direction updated.



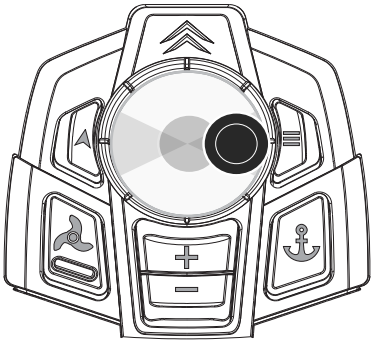
FreeSteer (360° steering)

Traditional steering

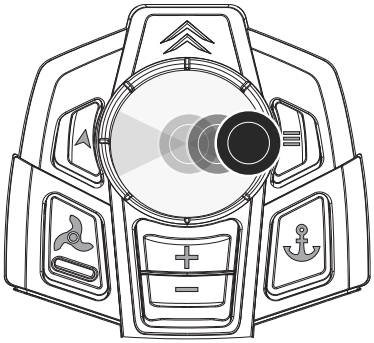
1 Tap and release the joystick horizontally left or right to adjust the direction of the lower unit in small steps.

2 Move and hold the joystick horizontally left or right to turn the lower unit continuously.

The unit will continue turning until it reaches the maximum steering angle.



Traditional steering: tap and release



Traditional steering: move and hold left or right

Adjust speed

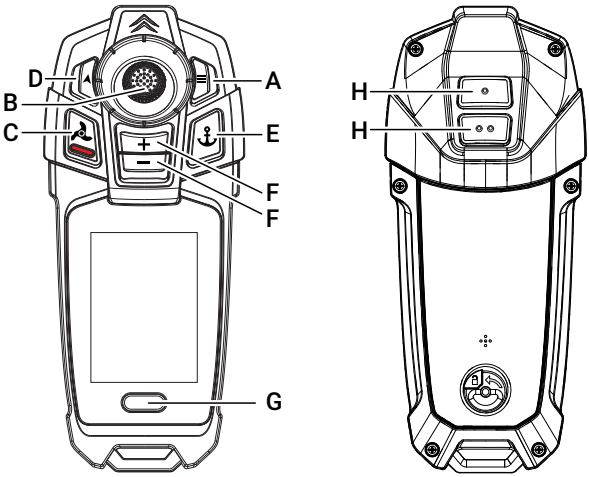
Whether you are using FreeSteer or traditional steering, use the speed keys **+**, **−** on the remote to increase or decrease the propeller thrust percentage.

1 Press and release the increase speed key **+** to increase the propeller speed in increments, or press and hold to quickly accelerate to maximum speed.

2 Press and release the decrease speed key **−** to reduce the propeller speed in increments, or press and hold to quickly reduce speed to 0.

3 To maintain the boat's speed over ground at the current value, engage Autopilot with Cruise Control (refer to page **47**).

Remote keys



A Power ON/OFF and Menu

- Press and hold to turn the remote on or off.
- Press and release to open the main menu.

B Joystick

- Use the joystick to change direction with FreeSteer (360° steering) or traditional (left-right) steering.
- **Menu navigation:** When the menu is open, move the joystick forward or back to select options in the menu. Center-press and release the joystick to open or enable a selected option.

C Propeller ON/OFF / Cancel all

- Press and release to engage/disengage the propeller.
- Press and hold in any mode to stop all functions, disengage the propeller, and exit the mode.

D Autopilot

- Press and release to start/stop the configured Autopilot mode.

→ ***Note:*** *Course lock mode, with propeller auto on disabled, is the default setting.*

E Anchor lock

- Press and release to start/stop Anchor lock mode.

F Speed control

- Press and release, or press and hold, these keys to adjust the propeller thrust percentage.
- In Cruise Control mode, press and release, or press and hold, these keys to set the cruise (constant) speed.

G In-mode soft key

- Press and hold the soft key to enable the function indicated by the icon on-screen.

H Configurable keys

- Enter the settings menu to assign one or more functions to these keys.

Menu navigation

When a menu is open:

- Move the joystick forward or back to select options in the menu. Center-press and release the joystick to open or enable a selected option.
- Press and release the menu key ☰ to close the menu and return to the main status screen.

→ ***Note:*** *When a menu is open, pressing and releasing the Propeller, Anchor, or Autopilot keys will exit the menu and execute the normal start/stop function of the key.*

FreeSteer remote settings

Onboarding

When the FreeSteer Joystick Remote is turned on the very first time, or following a factory reset of the remote, the onboarding sequence opens automatically.

→ ***Note:*** *If you dismiss onboarding at this stage, all settings will remain at their factory defaults.*

→ ***Note:*** *A disconnected status displays if the remote is not connected to the trolling motor. While disconnected, you are able to access the menu and settings for the remote, however, you cannot calibrate the trolling motor.*

To carry out onboarding at a different time:

1 Press and hold the menu key ☰ on the remote to turn on the remote.

2 Press and release the menu key ☰ to open the menu.

3 Use the joystick to navigate to **Onboarding**.

If your remote is not already paired to your trolling motor, instructions on-screen direct you to pair the remote.

To pair the remote at a different time, refer to **Pair devices** on page **12** .

When asked **Do you want to restore previous remote settings?**:

- Select **Restore** to keep the remote's existing settings, cancel onboarding, and return to the main status screen.
- Select **Skip** to proceed with configuring the remote's settings.

Calibration

Calibration refers to trolling motor calibration, and requires the trolling motor to be installed and deployed (see section **Calibration** on page **25** for information about calibrating the trolling motor). Select ***Skip*** if you do not want to carry out calibration right now.

Remote settings

To configure settings for the FreeSteer remote:

1 Press and hold the menu key ☰ on the remote to turn on the remote.

→ ***Note:*** *The status* ***Disconnected*** *displays if the remote is not connected to the trolling motor. When disconnected, you are able to access the menu and settings for the remote, however, you cannot calibrate the trolling motor.*

2 Press and release the menu key ☰ to open the menu.

3 Use the joystick to navigate to **Settings > Remote**.

- **Display**. Set your preferences for the remote's LCD screen.

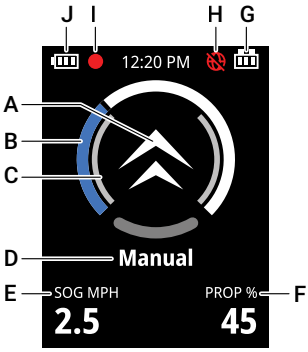
  Disabling the screen backlight, decreasing the brightness, and reducing the timeout interval will all extend the life of the remote's batteries.

- **Buttons**. Set your preferences for the remote's hard keys, including assigning functions to the configurable keys (refer to **Assign functions to remote keys** on page **55** for more information).

  Disabling the keys' backlight, and reducing the keys' backlight timeout interval, will extend the life of the remote's batteries.

- **Language**. Select your preferred language.
- **Units**. Select units for distance and speed.
- **Time**. Set the clock displayed on the LCD screen.
- **About**. See the software version currently installed on the trolling motor system (including the remote).

LCD screen and status bar

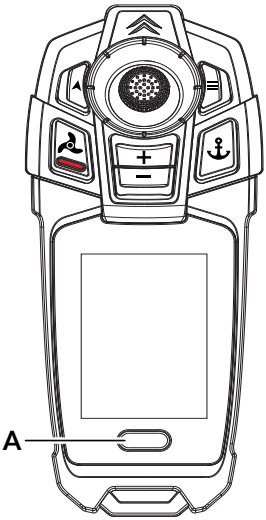


A Center icon displays the current mode.
B Blue dial fills clockwise to show propeller thrust percentage.
C Inner ring animates when propeller is active.
D Trolling motor mode/status.
E Current speed over ground.
F Current propeller percentage thrust.
G Trolling motor battery status.
H Alert: No GPS fix.
I Trail recording is active.
J FreeSteer remote battery status.

Soft key

The soft key (**A**) under the LCD screen provides quick access to in-mode functions.

The action of the soft key depends on the mode. A word or symbol displayed on the LCD screen above the soft key shows the current action of the soft key.



Icon	Function of soft key	Notes
	Press and hold to lock all keys except the menu key. Refer to **Lock remote** on page **35**.	Icon visible when the trolling motor is in Manual mode.
	Yellow means the remote keys are locked. Press and hold the soft key to unlock the keys.	Icon visible when the trolling motor is in Manual mode and the remote is locked.
	Press and release to create a waypoint at the current position. Refer to **Create waypoint** on page **49**.	Icon visible when the trolling motor is in Anchor lock mode.
	Press and release the soft key to start Cruise Control mode, which maintains a set speed over ground. Refer to **Cruise Control mode** on page **47**.	Icon visible when the trolling motor is navigating or in an Autopilot mode.
	Green means Cruise Control mode is active. Press and release the soft key to stop Cruise Control and return to adjusting propeller thrust percentage.	Icon visible when Cruise Control mode is active.

Lock remote

When the trolling motor is in Manual mode, you can lock the keys on the remote to prevent accidental inputs. While the remote keys are locked:

- The menu key ☰ still functions, and you can use the joystick as usual to navigate menus.
- You cannot use the joystick to adjust direction.
- You can continue to operate the trolling motor as normal using the foot pedal or a connected MFD.

To lock the remote, press and hold the soft key when the open padlock is displayed.

⚠ WARNING: **When the remote is locked, the keys on the remote cannot control the trolling motor.**

Unlock remote

To unlock the remote, press and hold the soft key when the locked (yellow) padlock is displayed.

Continue to hold the soft key until the LCD screen displays **Remote unlocked**.

TROLLING MOTOR OPERATION

The trolling motor must be deployed in order to operate.

The trolling motor can be operated with:

- The FreeSteer Joystick Remote
- The Advanced Wireless Foot Pedal
- A compatible multi-function display (MFD) on the same NMEA 2000® network as the trolling motor (refer to the documentation that came with your MFD).

⚠ WARNING: Ensure the trolling motor is locked in its deployed position before engaging the propeller.

⚠ WARNING: Rotating propellers can cause serious injury or death. Do not operate the propeller when the trolling motor is out of the water. Use extreme caution operating the trolling motor when there is a possibility of swimmers being in the water. Stop the trolling motor immediately whenever anyone in the water is near your boat.

⚠ WARNING: The trolling motor will continue a requested action even if the controlling device (remote, foot pedal, or MFD) loses power. Active propeller, Autopilot, and navigation modes are not stopped by turning off the controlling device. Always ensure that you know how to stop the trolling motor in an emergency by pressing the trolling motor power key or disconnecting its power supply

Always ensure you are familiar with starting and stopping the trolling motor using your chosen control devices.

Always be alert for unexpected motor movement, such as a turning propeller, even when one or more controlling devices are powered off.

⚠ WARNING: The compass inside the trolling motor head can be adversely affected by magnetic fields from magnets or large ferrous metal objects placed near the trolling motor. These can cause the compass to wander, and erratic steering to occur. Magnetic and large metal objects should be moved away from the trolling motor to return its normal steering.

GPS

The trolling motor's GPS receiver is inside the trolling motor head. It is normal for the trolling motor to lose its GPS signal when indoors or stowed. To establish a GPS fix, deploy the motor outdoors with a clear view of the sky. The **MODE** LED illuminates green when there is a GPS fix.

→ ***Note:*** *The trolling motor requires its own GPS fix for Course lock mode, Anchor lock mode, Cruise Control mode, and navigation functions.*

Manual mode and Heading lock mode can function without the trolling motor's GPS fix.

GPS source selection for a MFD

When using a MFD, select a GPS data source appropriate for your needs.

When using the trolling motor for navigation, the boat's position on an MFD screen may be offset from the waypoints or routes you are using. To improve this, enter the MFD's data sources menu, and select the trolling motor as the GPS source for the MFD.

→ ***Note:*** *Using the trolling motor as the GPS source may cause Speed Over Ground and Heading information on the MFD to be unavailable when the trolling motor is stowed, powered off, or unable to acquire a GPS signal.*

MANUAL MODE

In Manual mode, you control the trolling motor as required to change the direction and speed of the boat.

Engage/disengage propeller with remote

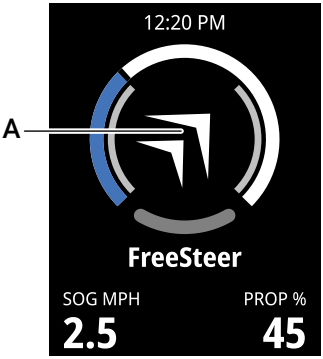
1 Press and release the propeller key to engage the propeller.

2 Press and release the propeller key again to disengage the propeller.

FreeSteer with remote

1 Move and hold the joystick in any direction to activate FreeSteer.

The trolling motor lower unit begins rotating to the requested direction, and stops rotating when it matches the direction. The icon (**A**) on the LCD screen moves to show the current direction of the lower unit.



Steer traditionally with remote

1 To turn the lower unit left, tap and release the joystick **horizontally left**.

2 To turn the lower unit right, tap and release the joystick **horizontally right**.

3 Move and hold the joystick horizontally left (or horizontally right) to turn the lower unit continuously.

Release the joystick to stop the lower unit.

The unit continues turning until it reaches the maximum steering angle.

Adjust speed with remote

With the propeller operating:

1 Press and release the increase speed key + to increase the propeller speed in increments, or press and hold to quickly accelerate to maximum speed.

2 Press and release the decrease speed key − to reduce the propeller speed in increments, or press and hold to quickly reduce speed to 0.

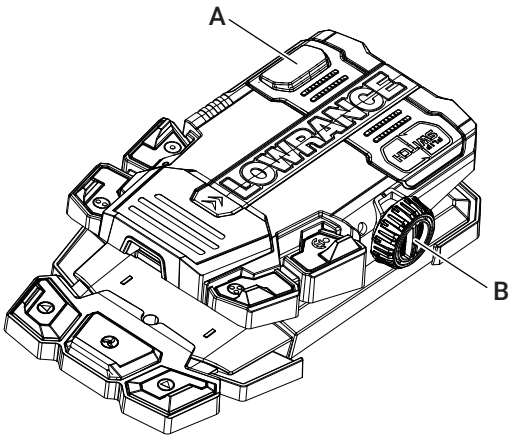
3 To maintain the boat's speed over ground at the current value, start Cruise Control mode (refer to **Cruise Control mode** on page **47**).

Engage/disengage propeller with foot pedal

1 To engage the propeller, press and hold the momentary switch (**A**) at the toe end of the foot pedal.

The propeller is engaged as long as the momentary switch is pressed (provided the speed knob, (**B**) is not in the OFF position). The propeller disengages when the momentary switch (**A**) is released.

→ ***Note:*** *The FlipSwitch allows you to install the momentary switch on either the left or right side of the pedal depending on your preference. Refer to the Recon Installation Manual for instructions.*



Or

1 Use the remote, a mobile device, or a multi-function display to assign Propeller constant on to one of the configurable keys on the foot pedal. Refer to **Assign functions to foot pedal keys** on page **53** for instructions.

2 Once assigned, press and release the key you configured for Propeller constant on to engage the propeller.

3 Press the assigned key again to disengage the propeller.

Steer proportionally with foot pedal

- Turn the boat to port (left) by pushing the heel end of the foot pedal down.
- Turn the boat to starboard (right) by pushing the toe end of the foot pedal down.
- To make the boat go straight ahead, keep the foot pedal in a level position.

Adjust speed with foot pedal

1 Roll the speed adjustment knob on the foot pedal, (**B**), forwards (away from you) to increase the propeller speed.

2 Roll the speed adjustment knob on the foot pedal backward (towards you) to decrease the propeller speed.

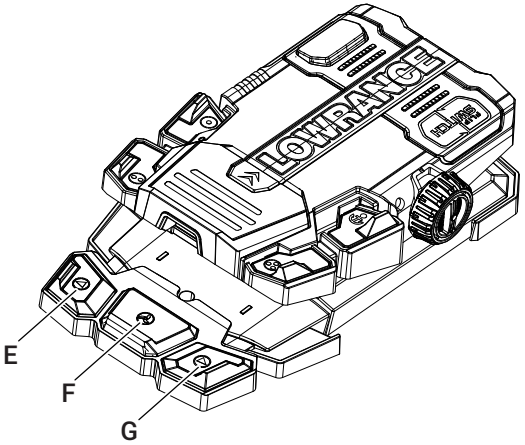
When the speed knob on the foot pedal is at the **OFF** setting, the propeller is engaged, but not rotating. The propeller will not rotate until the speed is increased from **OFF**.

Lower key module on foot pedal

The keys (**E, F, G**) on the lower key module of the Advanced Wireless Foot Pedal have steering functions programmed by default.

→ ***Note:*** *The three keys (E, F, G) on the lower key module can be reprogrammed, changing their functions.*

→ ***Note:*** *The lower key module can be completely removed from the pedal if you want to install the pedal in a smaller space. (Refer to the Recon Installation Manual for how to remove the lower key module. The lower key module does not operate when it is removed from the pedal.)*



Engage/disengage propeller with lower key module

1 Press and release the propeller key (**F**) to engage the propeller.

2 Press and release the propeller key (**F**) again to disengage the propeller.

With the trolling motor in any mode:

- Press and release the propeller key (**F**) to pause, and reengage, the propeller while remaining in the mode.
- Press and hold the propeller key (**F**) to stop the mode and return to Manual mode with the propeller speed at zero.

Steer using direction keys on lower key module

1 To turn the lower unit left, tap or press and hold the steer left key ◀ (**E**). The lower unit rotates until the direction key is released, or maximum steering angle has been reached. The light bar on the trolling motor head unit shows the direction the lower unit is pointing.

2 To turn the lower unit right, tap or press and hold the steer right key ▶ (**G**). The lower unit rotates until the direction key is released, or maximum steering angle has been reached. The light bar on the trolling motor head unit shows the direction the lower unit is pointing.

MODES AND ACTIONS

Trolling motor modes and actions can be accessed using:

- Dedicated keys and assigned keys on the FreeSteer Joystick Remote
- Dedicated keys and assigned keys on the Advanced Wireless Foot Pedal.

Refer to **Assign functions to remote keys** on page **55** for instructions on how to assign modes and actions to the configurable keys on the remote.

Assign functions to foot pedal keys on page **53** for instructions on how to assign modes and actions to the configurable keys on the foot pedal.

You can also access a range of trolling motor modes and actions using a compatible MFD. Refer to the documentation for your MFD for more information.

➔ ***Note:*** *Visit* ***www.lowrance.com*** *or* ***www.simrad-yachting.com*** *to ensure your MFD is compatible and its software is up to date. The trolling motor and MFD must be connected to the same NMEA 2000® network.*

Anchor lock mode

⚠ WARNING: A spinning propeller, a moving boat, or any solid device attached to the boat can cause serious injury or death to swimmers. Stop the trolling motor immediately whenever anyone in the water is near your boat.

⚠ WARNING: Avoid serious injury from colliding with other boats, running aground, or striking objects in the water. The GPS system cannot detect other boats, shallow water, or objects in the water. Always beware of possible obstructions to navigation when operating in any GPS mode.

Anchor lock mode uses the trolling motor propeller and GPS to hold the vessel at the current position.

➔ ***Note:*** *When in Anchor lock mode, the vessel's orientation (heading) could be affected by wind and/or current, but the vessel's location is constant.*

While in Anchor lock mode you can:

- Jog to a nearby position without leaving Anchor lock mode
- Pause the propeller without leaving Anchor lock mode.

➔ ***Note:*** *Using the joystick on the remote while in Anchor lock mode will make the boat move by activating the Anchor jog or FreeSteer functions.*

Start Anchor lock mode

Remote

Press and release the anchor key ⚓ on the remote.

Foot pedal

Press and release the anchor key ⚓ on the foot pedal.

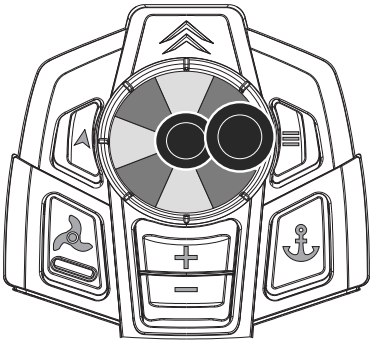
Adjust position in Anchor lock mode

When in Anchor lock mode, Anchor jog using the FreeSteer remote moves the boat in the direction you choose, then resumes Anchor lock at the new position.

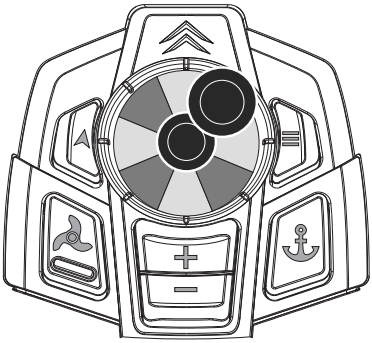
➔ ***Note:*** *The trolling motor must be in Anchor lock mode for Anchor jog to work.*

Remote

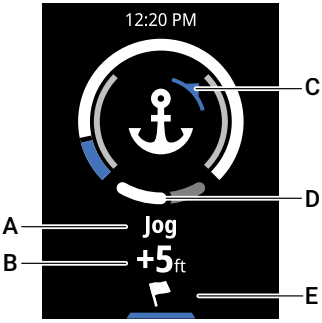
Tap and release the joystick in any 45° direction to jog the boat in that direction in increments of 1.5 m (5 ft) per tap. When the boat has finished jogging, Anchor lock mode resumes at the new position.



Jog 1.5 m (5 ft) increments: tap and release left, right, forward (up), back (down)



Jog 1.5 m (5 ft) increments diagonally: tap and release on a 45° angle



A Jog active
B Requested total jog distance
C Blue arc shows jog direction
D The arc fills in white to show how much of the jog distance has been covered
E Press and release soft key to create a waypoint

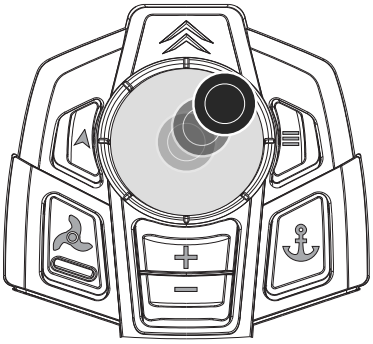
FreeSteeer Anchor jog

1 To move the boat continuously in any direction, move and hold the joystick in the direction you want.

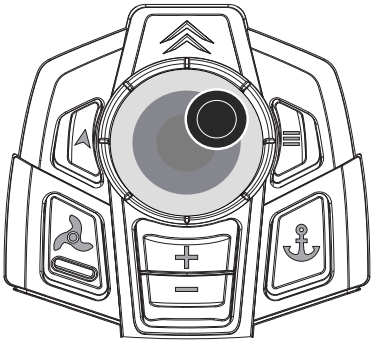
This activates FreeSteer Anchor jog. The lower unit will turn to match the direction requested by the joystick, then the propeller speed will increase to move the boat in the requested direction.

In FreeSteer Anchor jog, the propeller thrust is proportional to the joystick's position from center. To use reduced thrust for precise positioning, partially engage the joystick. To get to your new spot as quickly as possible, press and hold the joystick at its fullest extent.

2 Release the joystick to resume Anchor lock mode at the new position.



FreeSteer Anchor jog:
press and hold, any direction



FreeSteer Anchor jog:
proportional thrust

Foot pedal (left/right anchor jog)

While in Anchor lock, press and release the steer left key ◀, or steer right key ▶ on the lower key module to move the boat 1.5 m (5 ft) left or right.

Pause propeller in Anchor lock mode

When the trolling motor is in Anchor lock mode, the propeller operates automatically as required to hold the boat's position. You can pause the propeller if you have hooked a fish or identified a hazard.

→ ***Note:*** *When the propeller is paused in Anchor lock (or Autopilot) modes, the indicator LED on the trolling motor head slowly pulses.*

→ ***Note:*** *Wind or current could make the boat change position while the propeller is paused, but when Anchor lock resumes the vessel returns to where you paused the propeller.*

Remote

1 Press and release the propeller key to pause the propeller in Anchor lock.

2 Press and release the propeller key again to reengage the propeller and resume Anchor lock.

Foot pedal

1 Press and release the propeller key (or other key to which you have assigned the Propeller constant on function) to pause the propeller in Anchor lock.

2 Press and release the propeller key (or other key to which you have assigned the Propeller constant on function) again to reengage the propeller and resume Anchor lock.

- ***Note:*** *If you have removed the lower key module from the foot pedal, and not assigned a Propeller constant on key to the foot pedal, you cannot use the foot pedal to pause Anchor lock.*
- ***Note:*** *Do not use the momentary switch on the foot pedal to pause the propeller; its function in Anchor lock mode is to STOP Anchor lock.*

Stop Anchor lock mode

When you stop Anchor lock mode, the propeller disengages, and the trolling motor returns to Manual mode.

Remote

Press and release the Anchor key on the FreeSteer remote to stop Anchor lock.

Alternatively, press and hold the propeller key on the remote to end any mode.

Foot pedal

Press and release the Anchor key on the foot pedal to end Anchor lock.

Alternatively, press and release the momentary switch, or move the foot pedal more than 3 degrees in either direction, to end Anchor lock.

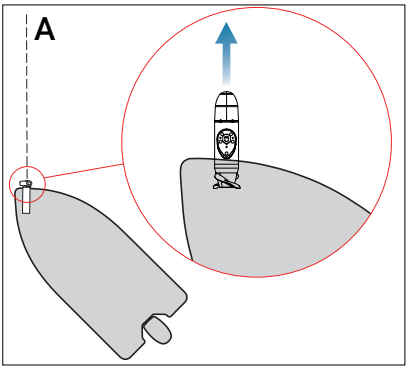
Autopilot modes (Course lock and Heading lock)

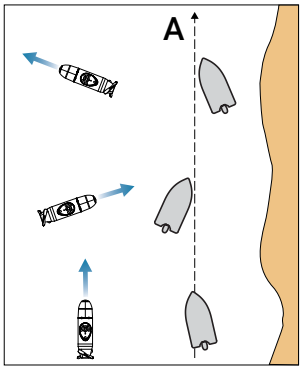
⚠ WARNING: Avoid serious injury from colliding with other boats, running aground, or striking objects in the water. The Autopilot system cannot detect other boats, shallow water, or objects in the water. Always beware of possible obstructions to navigation when navigating or operating in Autopilot modes.

Course lock and Heading lock are Autopilot functions that steer the vessel automatically.

Course lock mode steers the vessel along a straight-line course that you align to compensate for drift caused by current and/or wind. When you start Course lock mode, the trolling motor will draw an invisible track (**A**) based on the direction of the lower unit at the time.

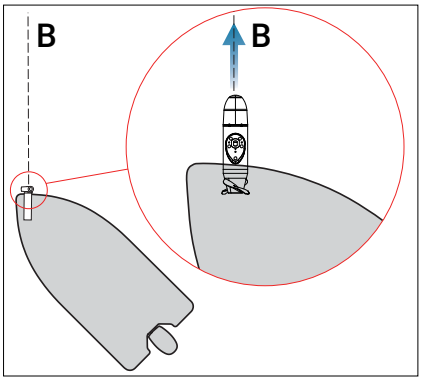
→ ***Note:*** *In Course lock mode, wind and/or current may cause the vessel to follow the course at a crab angle.*

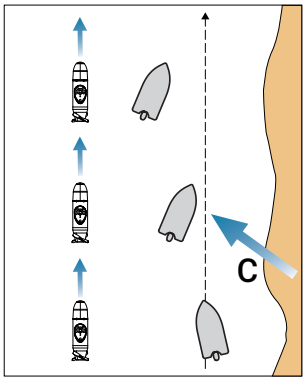




Heading lock mode maintains the heading of the vessel, based on the direction of the lower unit. When you start Heading lock mode, the trolling motor will keep the lower unit pointed in the direction it was in when the mode started.

→ ***Note:*** *In Heading lock mode, the trolling motor doesn't compensate for drift caused by current and/or wind (**C**).*





While in an Autopilot mode you can:

- Adjust direction and continue with the mode
- Increase or decrease speed and continue with the mode

- Switch between Cruise Control mode (fixed speed over ground) or propeller thrust percentage
- Pause the propeller while 'remembering' the steering instructions.

Start Autopilot mode

When you start an Autopilot mode, the trolling motor uses the present direction of the trolling motor lower unit, and uses the present speed.

If the Prop auto on function is not enabled, you must engage the propeller manually when entering an Autopilot mode. Refer to **Prop auto on** on page 24 to change the Prop auto on setting.

Remote

1 Press and release the Autopilot key ▲ on the remote to start the assigned Autopilot function.

→ ***Note:*** *Course lock mode is assigned to the Autopilot key by default. Refer to* **Autopilot** *on page* 23 *to change this.*

Foot pedal

1 Use the remote, a mobile device, or a multi-function display to assign Course lock or Heading lock to configurable keys on the foot pedal. Refer to **Assign functions to foot pedal keys** on page 53 for instructions.

2 Once assigned, press and release the key you configured for Course lock (or Heading lock) to start Course lock (or Heading lock, as applicable).

Adjust direction in Autopilot mode

When the trolling motor is in an Autopilot mode, you can adjust the boat's course (or heading, as applicable) without leaving the mode.

Remote

1 Move and hold the joystick in the direction you want. The lower unit direction is indicated by the icon on the remote's LCD display, and the light on the trolling motor head. The trolling motor proceeds on the updated course (or heading) when you release the joystick.

Or

1 Tap the joystick horizontally left or right to adjust the course (or heading) in small steps.

Foot pedal

1 Press and hold the momentary switch, and at the same time operate the pedal to adjust the course (or heading) proportional to the pedal angle, as for normal steering. The lower unit direction is indicated by the light on the trolling motor head. The trolling motor proceeds on the updated course (or heading) as soon as you release the momentary switch on the foot pedal.

Or

1 Tap, or press and hold, the direction keys on the lower key module to change course (or heading). The lower unit rotates from its current position as long as the key is pressed.

Pause propeller in Autopilot mode

When the trolling motor is in an Autopilot mode, you can pause the propeller and still 'remember' the course (or heading) you were using. This is useful if you have hooked a fish, or identified a hazard where it is prudent to disengage the propeller.

→ ***Note:*** *When the propeller is paused in Anchor lock (or Autopilot) modes, the indicator LED on the trolling motor head slowly pulses.*

Remote

1 Press and release the propeller key to pause the propeller in an Autopilot mode.

The lower unit continues tracking your desired course or heading while the propeller is paused.

Direction changes you request while the propeller is paused will update your course or heading.

2 Press and release the propeller key again to reengage the propeller, and proceed in the Autopilot mode using your most recent course (or heading).

Foot pedal

1 Press and release the propeller key (or other key to which Propeller constant on is assigned) to pause the propeller in an Autopilot mode.

2 Press and release the propeller key (or other key to which Propeller constant on is assigned) again to reengage the propeller and resume the course (or heading) you were using.

→ ***Note:*** *If you have removed the lower key module from the foot pedal, and not assigned a Propeller constant on key to the foot pedal, you cannot pause Course lock or Heading lock.*

→ ***Note:*** *Do not use the momentary switch on the foot pedal to pause the propeller; its function in this mode is to adjust the direction of the lower unit then continue with the updated course or heading.*

Stop/end Autopilot mode

When you stop an Autopilot mode, the propeller slows and stops, and the trolling motor returns to Manual mode.

Remote

Press and release the Autopilot key on the remote to stop an Autopilot mode.
Alternatively, press and hold the propeller key on the remote to end any mode.

Foot pedal

Press and release the dedicated or assigned Course lock or Heading lock key to end Course lock (or Heading lock, as applicable).

→ ***Note:*** *Do not use the momentary switch on the foot pedal to stop Course lock or Heading lock; its function in these modes is to adjust the direction of the boat then resume the course or heading.*

Cruise Control mode

Cruise Control mode maintains the vessel's speed over ground at a constant value. This lets you reproduce your optimum lure-trolling speed, or reproduce the special trolling motor note that seems to attract your favorite species.

You can enable Cruise Control when you are engaged in an Autopilot mode, or navigating. When you start Cruise Control mode, the value for the set speed matches the vessel's speed over ground (SOG). You can then use the speed keys +, − on the remote to increase or decrease value for the set speed.

→ ***Note:*** *Speed is displayed in units of miles per hour by default. You can change the units by navigating to* ***Settings > Remote > Units****.*

When you stop Cruise Control mode, the trolling motor reverts to constant propeller thrust percentage (at the most recent value) and the speed keys +, − on the remote increase or decrease the propeller thrust percentage. The vessel's speed over ground may now be affected by wind and current.

Start/stop/adjust Cruise Control mode

→ ***Note:*** *The trolling motor must be in an Autopilot mode, or navigating, before Cruise Control is engaged.*

Remote

1 Assign Cruise Control to one of the configurable keys on the remote. Refer to **Assign functions to remote keys** on page **55** for instructions.

2 After starting Cruise Control mode, use the speed keys +, − on the remote to increase or decrease the set speed.

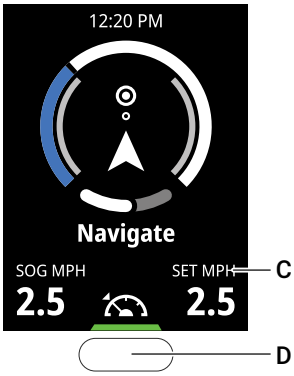
Or

1 The Cruise Control mode icon displays at the bottom of the screen when the trolling motor is in an Autopilot mode. When the Cruise Control icon is visible, press and release the soft key under the LCD screen to start Cruise Control mode.

A green line under the Cruise Control icon shows Cruise Control mode is active and that speed over ground is being maintained at a constant value.

2 Use the speed keys +, − on the remote to increase or decrease the Cruise Control speed. Your requested speed displays in the bottom right corner of the screen as **Set** speed (**C**).

3 Press and hold the soft key again (**D**) to stop Cruise Control mode.



Foot pedal

1. Use the remote, a mobile device, or a multi-function display to assign Cruise Control mode to one of the configurable key on the foot pedal. Refer to **Assign functions to foot pedal keys** on page **53** for instructions.
2. Press and release the key you configured for Cruise Control to start Cruise Control mode.
3. When Cruise Control mode is active, you can adjust the vessel's speed over ground by using the speed control knob on the foot pedal.
4. Press and release the key you configured for Cruise Control mode to stop Cruise Control mode.

NAVIGATION

The Recon trolling motor can store 20 waypoints (GPS positions) and 20 routes (recorded trails) in its memory.

You can access saved waypoints and routes from the main menu on the FreeSteer remote (refer to pages **50** and **51**).

⚠ WARNING: Avoid serious injury from colliding with other boats, running aground, or striking objects in the water. The Autopilot system cannot detect other boats, shallow water, or objects in the water. Always be aware of possible obstructions to navigation when navigating or operating in Autopilot modes.

Configure MFD to receive waypoints

To create a waypoint on your MFD, configure your MFD to receive waypoint and routes data from the trolling motor. To do this, on your MFD:

- Enable **Receive waypoint** in the NMEA 2000® settings, and
- Enable **Allow duplicate waypoint names** in the advanced system settings.

→ ***Note:*** *Waypoints will be created on the MFD even if the waypoint storage on the trolling motor is full.*

Create waypoint

Remote

You can assign Waypoint to one of the configurable keys on the remote (refer to **Assign functions to remote keys** on page **55** for instructions).

1 Press and release the key you configured for Waypoint to store a waypoint.

Or

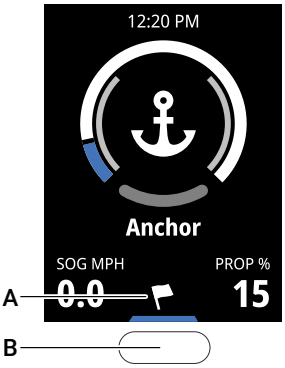
1 Press and release the menu key ☰ on the remote to open the menu.

2 Use the joystick to navigate to **Waypoints > Add waypoint**.

3 Select **Save & close**.

Or

1 When the trolling motor is in Anchor lock mode, press and release the soft key (**B**) under the waypoint icon (**A**).



Foot pedal

To create a waypoint using the foot pedal, you need to have assigned **Waypoint** to one of the configurable keys on the foot pedal (refer to **Assign functions to foot pedal keys** on page **53** for instructions).

1 Press and release the key you configured for Waypoint to store a waypoint.

Go to waypoint

Remote

The trolling motor can navigate to waypoints within 400 m (0.25 miles) of your vessel's current position.

1 Press and release the menu key ☰ on the remote to open the menu.
2 Use the joystick to navigate to **Waypoints**.
3 Saved waypoints are identified with numbers. Center-press and release the joystick to open a waypoint on the list. Its distance and its direction (as a bearing) are displayed.

→ ***Note:*** *To see the waypoints displayed on a chart, you need a MFD configured to receive waypoints from the trolling motor.*

4 Select **Go to** to start navigating towards the selected waypoint using the trolling motor. The trolling motor will proceed in Navigation mode.

→ ***Note:*** *The remote can only open and navigate to waypoints stored on the trolling motor. You cannot use the remote to access waypoints on a MFD.*

Delete waypoint

Remote

1 Press and release the menu key ☰ on the remote to open the menu.
2 Use the joystick to navigate to **Waypoints > Manage**.
3 Select **Delete all waypoints** to clear all waypoints from the trolling motor memory.
4 To delete individual waypoints, center-press and release the joystick to open a waypoint on the list. Its distance and its direction (as a bearing) are displayed.
5 Select **Delete** to delete the waypoint.

Record a trail

Remote

You can use the trolling motor to record, store, and repeat your favorite runs. We refer to this as recording a trail. To record a trail, you need the FreeSteer Joystick Remote.

1 Press and release the menu key ☰ on the remote to open the menu.
2 Use the joystick to navigate to **Trails > Record trail**.
   A red light in the top left corner of the remote's LCD screen shows recording is in progress.
3 To stop recording and save (or discard) the trail, press and release the menu key ☰ on the remote to open the menu.
4 Use the joystick to navigate to **Trails > Record trail > Stop recording**.
5 From here, select:
   - **Save & close** to save the recording;
   - **Delete** to delete the recording; or
   - **Cancel** to continue recording and leave the menu.

→ ***Note:*** *Trails recorded by the trolling motor are called Routes when they are saved. The data is exactly the same. Up to 20 routes can be saved on the trolling motor.*

Follow recorded trail (route)

Remote

1 Use the remote to navigate to **Menu > Trails.**

→ ***Note:*** *Trails recorded by the trolling motor are called routes when they are saved. The data is exactly the same.*

2 Under the list of routes, select the route you want. Routes are identified with numbers.

3 Center-press and release the joystick to open a route from the list.

The date the route was recorded, the length of the route, and the direction to the **start point** of the route (as a bearing) are displayed.

4 Select **Go to** to open the next menu, or select **Back** to return to the list of routes.

- Select **Forward** to follow the route from its start point to its end point.
- Select **Reverse** to follow the route in the opposite direction, from its end point to its start point.

5 Select **Proceed**. The trolling motor will proceed in Navigation mode.

Delete recorded trail (route)

Remote

1 Press and release the menu key ☰ on the remote to open the menu.

2 Use the joystick to navigate to **Trails > Manage**.

3 Select **Delete all routes** to clear all routes from the trolling motor memory.

4 To delete individual routes, center-press and release the joystick to open a route from the list.

The date the route was recorded, the length of the route, and the direction to the **start point** of the route (as a bearing) are displayed.

5 Select **Delete** to delete the route.

Stop navigation

Remote

When the trolling motor is navigating towards a waypoint, or towards or along a route, **Stop navigation** is visible at the top of the main menu. **Stop navigation** cancels an instruction to navigate to a waypoint, or to navigate towards and/or along a prerecorded trail.

1 Press and release the menu key ☰ on the remote to open the menu.

2 Use the joystick to select **Stop navigation**.

The propeller disengages, and the trolling motor enters Manual mode.

Or

1 Press and release the propeller key to pause the propeller while navigating.

2 Press and release the propeller key again to reengage the propeller and continue your navigation sequence.

3 Press and hold the propeller key to disengage the propeller and enter Manual mode.

Foot pedal

1 Press and release the propeller key (or other key to which Propeller constant on is assigned) to pause the propeller while navigating.

2 Press and release the propeller key (or other key to which Propeller constant on is assigned) again to reengage the propeller and continue your navigation sequence.

More navigation options

Some multi-function displays (MFDs) can access advanced navigation options such as instructing the trolling motor to follow automatic turn patterns or a constant-depth route on a chart.

Refer to the MFD's documentation for more information.

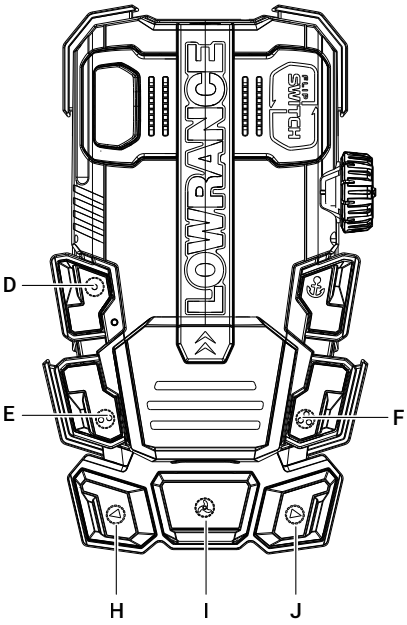
→ ***Note:*** *Visit* ***www.lowrance.com*** *or* ***www.simrad-yachting.com*** *to ensure your MFD is compatible and its software is up to date.*

→ ***Note:*** *The trolling motor and MFD must be connected to the same NMEA 2000® network.*

CONFIGURABLE KEYS

Assign functions to foot pedal keys

You can assign your favorite modes or actions to the keys labeled (**D**, **E**, **F**, **H**, **I**, **J**) on the Advanced Wireless Foot Pedal.



→ ***Note:*** *Configuring a key overwrites the default function for that key. After you have programmed the keys on the foot pedal, apply adhesive labels from the decal sheet enclosed with the foot pedal to the keys to remind you which function you have assigned to each key.*

You can use any of the following connected devices to program the keys on the foot pedal:

- FreeSteer Joystick Remote
- Mobile device with the Lowrance or Simrad® app
- Compatible Lowrance or Simrad® multi-function display (MFD).

Remote

1 On the remote, navigate to **Settings > Foot pedal > Upper {Key 1, Key 2, Key 3}**.

2 Open each key you want to configure, and assign the key a function from the drop down list (refer to page **54**).

→ ***Note:*** *Key 1, Key 2, and Key 3 refer to the keys **D**, **E**, **F** respectively in the diagram above, and are located on the upper part of the foot pedal.*

3 On the remote, navigate to **Settings > Foot pedal > Lower {Key 1, Key 2, Key 3}**.

→ ***Note:*** *On the lower key module, Key 1, Key 2, and Key 3 refer to the keys **H**, **I**, **J** respectively in the diagram above, and are located on the lower key module. Be aware these keys have steering functions assigned by default.*

Mobile app

1 In the app, navigate to **My devices > Trolling motor > Settings > Foot pedal**.

2 Open each key you want to configure, and assign the key a function from the drop down list (refer to page **54**).

→ ***Note:*** *Key 1, Key 2, and Key 3 refer to the keys **D, E, F** respectively in the diagram above, and are located on the upper part of the foot pedal.*
*Key 4, Key 5, and Key 6 refer to the keys **H, I, J** respectively in the diagram above, and are located on the lower key module. Be aware these keys have steering functions assigned by default.*

Function assigned to pedal key	Each press of the assigned key...
None	Does nothing.
Waypoint	Saves the boat's current position to your trolling motor as a Waypoint, which you can recall and return to another time.
Prop constant on	Engages (and alternately, disengages) the propeller. With this key the propeller operates continuously, without the need to hold a momentary switch. This key pauses (and alternately, resumes) the propeller in any driving mode.
Course lock	Starts Course lock mode, with the trolling motor current speed and the lower unit's current direction used as the initial speed and course. Press again to stop Course lock mode. Refer to **Autopilot modes (Course lock and Heading lock)** on page **44** for more information.
Heading lock	Starts Heading lock mode, with the trolling motor current speed and the lower unit's current direction used as the initial speed and heading. Press again to stop Heading lock mode. Refer to **Autopilot modes (Course lock and Heading lock)** on page **44** for more information.
Cruise Control	Enters Cruise Control mode. This maintains the current speed over ground, adjusting propeller thrust for the effects of wind and current. Press again to stop Cruise Control mode. Refer to **Cruise Control mode** on page **47** for more information.
Power-Pole® up	If a Power-Pole® anchor is installed and connected, pressing this key raises the Power-Pole® all the way up. → ***Note:*** *The Power-Pole® needs to be connected to a MFD via Bluetooth® for this function to work.*
Power-Pole® down	If a Power-Pole® anchor is installed and connected, pressing this key lowers the Power-Pole® all the way down. → ***Note:*** *The Power-Pole® needs to be connected to a MFD via Bluetooth® for this function to work.*
Ghost 360 start/stop	If an Active Imaging 3-in-1 transducer and compatible display are connected, pressing this key makes the trolling motor rotate without the propeller operating, enabling a 360° sonar picture of the underwater surroundings. Press the key again to stop the 360° scan.
ActiveTarget forward range +	Steps through the entries in the Forward Range menu to increase the forward range of your connected ActiveTarget transducer.
ActiveTarget forward range –	Steps through the entries in the Forward Range menu to decrease the forward range of your connected ActiveTarget transducer.

Function assigned to pedal key	Each press of the assigned key...
ActiveTarget down range +	Steps through the entries in the Down Range menu to increase the down range of your connected ActiveTarget transducer.
ActiveTarget down range –	Steps through the entries in the Down Range menu to decrease the down range of your connected ActiveTarget transducer.
Steer left	This option only appears for the appropriate (bottom left) key on the lower key module, and allows you to restore the original function to the key if it has been reprogrammed. You cannot assign Steer left to any other keys on the foot pedal.
Steer right	This option only appears for the appropriate (bottom right) key on the lower key module, and allows you to restore the original function to the key if it has been reprogrammed. You cannot assign Steer right to any other keys on the foot pedal.

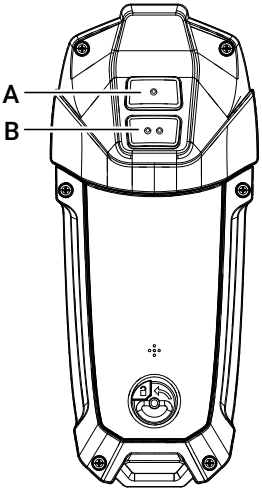
→ ***Note:*** *A sheet of decals is supplied with the foot pedal. After you have configured the keys on the foot pedal, choose and apply decals to the keys to remind you of the function assigned to each key.*

Assign functions to remote keys

You can assign favorite functions to the keys labeled ● and ● ● (**A**, **B**) on the back of the FreeSteer remote.

Each key can be assigned up to two functions, accessed with a long press (press and hold), and short press (press and release) respectively.

→ ***Note:*** *The key labeled ● is at the forward end of the remote.*



Use any of the following connected devices to program the keys on the remote:

- FreeSteer joystick remote
- Mobile device with the Lowrance or Simrad® app
- Compatible Lowrance or Simrad® multi-function display (MFD).

For the list of functions that can be assigned to configurable keys on the remote, refer to page **56.**

Remote

1 On the remote, navigate to **Settings > Remote > Buttons**.

2 Select each of **Trigger 1 short, Trigger 1 long, Trigger 2 short, Trigger 2 long** and assign a function from the drop down list to each one.

Mobile app

1 In the app, navigate to **My devices > Trolling motor > Settings > FreeSteer Remote**.

2 Select each of **Button 1 > Short press**; **Button 1 > Long press**; **Button 2 > Short press**; **Button 2 > Long press** and assign a function from the drop down list to each one.

Function assigned to key on remote (long press or short press)	Each press of the assigned key...
None	Does nothing.
Waypoint	Saves the boat's current position to your trolling motor as a Waypoint, which you can recall and return to another time. Refer to **Create waypoint** on page **49** for more information.
Cruise Control	Enters Cruise Control mode. This maintains the current speed over ground, adjusting propeller thrust for the effects of wind and current. Press again to stop Cruise Control mode. Refer to **Cruise Control mode** on page **47** for more information.
Power-Pole® up	If a Power-Pole® anchor is installed and connected, pressing this key raises the Power-Pole® all the way up. → ***Note:*** *The Power-Pole® needs to be connected to a MFD via Bluetooth® for this function to work.*
Power-Pole® down	If a Power-Pole® anchor is installed and connected, pressing this key lowers the Power-Pole® all the way down. → ***Note:*** *The Power-Pole® needs to be connected to a MFD via Bluetooth® for this function to work.*
Ghost 360 start/stop	If an Active Imaging 3-in-1 transducer and compatible display are connected, pressing this key makes the trolling motor rotate (without the propeller operating), enabling a 360° sonar picture of the underwater surroundings. Press the key again to stop the 360° scan.
ActiveTarget forward range +	Steps through the entries in the Forward Range menu to increase the forward range of your connected ActiveTarget transducer.
ActiveTarget forward range –	Steps through the entries in the Forward Range menu to decrease the forward range of your connected ActiveTarget transducer.
ActiveTarget down range +	Steps through the entries in the Down Range menu to increase the down range of your connected ActiveTarget transducer.
ActiveTarget down range –	Steps through the entries in the Down Range menu to decrease the down range of your connected ActiveTarget transducer.

SOFTWARE

To ensure you receive notifications when relevant software updates are available for download, use the Lowrance or Simrad® mobile app to register your trolling motor. Updates for the trolling motor, Advanced Wireless Foot Pedal, and FreeSteer Joystick Remote are packaged together.

After an update is transferred to the trolling motor, it installs automatically. While the update is in progress the **MODE** and **STATUS** LEDs on the trolling motor mount flash white, left-right, and the direction indicator on the trolling motor head flashes blue. When the foot pedal and remote are turned on, and connected to the trolling motor via Bluetooth®, software updates pass from the trolling motor to appropriate connected devices automatically

→ ***Note:*** *Do not disconnect power from the trolling motor while a software update is in progress.*

Update software via MFD

Visit the product page for your trolling motor: **www.lowrance.com/downloads/recon** or **www.simrad-yachting.com/downloads/recon**. Download the most recent Recon software to a microSD® card 32 GB or smaller, then insert the microSD® into your multi-function display (MFD). Refer to the documentation for your MFD for information about installing updates from a microSD® card if necessary.

The MFD uses the NMEA 2000® network to install the updates onto the trolling motor, and subsequently to devices connected to the trolling motor.

Update software via mobile device

1 Connect your mobile device to the internet and select the software notification to download the trolling motor update to your mobile device.

→ ***Note:*** *The download to your mobile proceeds automatically if you have allowed this in your mobile device settings. Otherwise, you will see a notification inviting you to download the update to your mobile device.*

2 Connect your mobile device to the trolling motor via Bluetooth®, and follow the instructions in the app to transfer the software update package to the trolling motor.

→ ***Note:*** *If you have previously paired your mobile device to the trolling motor, and your mobile device settings allow it, the connection is automatic when the trolling motor is on and within Bluetooth® range.*

View software version and serial number

You can use the remote or the mobile app to look up the serial number and the installed software version for the trolling motor, FreeSteer Remote, or Advanced Wireless Foot Pedal. The device whose information you are looking up must be powered on and connected to the trolling motor.

Remote

Press and release the menu key ☰ to open the menu, then use the joystick to navigate to:

- **Settings > Trolling motor > About** to display the serial number and installed software version for the trolling motor.
- **Settings > Remote > About** to display the serial number and installed software version for the FreeSteer Joystick remote.
- **Settings > Foot pedal > About** to display the serial number and installed software version for the Advanced Wireless Foot Pedal.

Mobile app

Select your trolling motor from the list of devices stored against your profile. When the trolling motor home screen opens, select **Device info** to see the serial numbers and current software version installed on the trolling motor, and the devices connected to the trolling motor.

FACTORY RESET

Factory reset trolling motor

When you perform a factory reset on the trolling motor, all settings revert to their factory defaults.

- Calibrations, including bow offset calibration and compass calibration, are cleared.
- Waypoints and recorded trails (called routes) saved on the trolling motor memory are cleared.
- All devices paired to the trolling motor via Bluetooth® are unpaired, including any factory-paired accessories that came with the trolling motor. These will require Bluetooth® pairing before they can reconnect.

Remote

1 Press and release the menu key ☰ to open the menu.
2 Use the joystick to navigate to **Settings > Trolling motor > Factory reset**.

Restore defaults

Restore the defaults for a single device when you want to un-pair that device from the trolling motor without performing a full factory reset on the trolling motor.

When you restore defaults on the FreeSteer Joystick Remote or the Advanced Wireless Foot Pedal, all the device's settings revert to their factory defaults.

- The device is unpaired from the trolling motor, and requires Bluetooth® pairing before it can reconnect to the trolling motor.
- The device's configurable keys are returned to default settings (including no function, if applicable).

Unpair remote and restore defaults

1 Press and release the menu key ☰ to open the menu.
2 Use the joystick to navigate to **Settings > Remote > Restore default**.

Unpair foot pedal and restore defaults

Remote

1 Press and release the menu key ☰ to open the menu.
2 Use the joystick to navigate to **Settings > Foot pedal > Restore default**.

ERROR CODES

Error codes are reported on the mobile app, FreeSteer Joystick Remote, or a connected multi-function display. They can be used to help diagnose issues with the trolling motor.

→ ***Note:*** *Use the Lowrance or Simrad® mobile app to access details about the source of an error code, and suggestions for how to troubleshoot it.*

Remote

1 Press and release the menu key ☰ to open the menu, then use the joystick to navigate to **Diagnostics**.

2 Error codes are listed on the remote's LCD screen if they have been reported.

Mobile app

1 Select your trolling motor from the list of devices stored against your profile.

A notification appears on the trolling motor home screen if error codes have been reported.

2 Open the notification to see individual codes.

Multi-function display

1 Refer to the documentation for your multi-function display for instructions about how to review Alerts and Alarms reported to the MFD.

Table of error codes

Code	Short description
A001	Service Autopilot
A002	Service Autopilot
B001	Service Bluetooth®
C001	Service factory calibration
C002	Perform bow offset
C003	Perform compass calibration
D001	Check UI/display board
H001	Service head PCB
L001	Service lower unit
L002	Service lower unit
L003	Service lower unit
L004	Check lower unit
L005	Service lower unit
M001	Service base PCB
M003	Over temperature

Code	Short description
M004	Steering over current
M005	Lower unit over current
P002	<Device name> stuck button
P003	<Device name> internal error
P004	Foot pedal calibration required
S001	Service deploy detection
S002	Check stow/deploy sensor
T001	Service transmission
T002	Service transmission
V001	Voltage below specification
V002	Voltage above specification
X001	Check software
X002	Service software
Y001	Service communications cable
Y002	N2K communications error

MAINTENANCE

To keep your trolling motor in the best operating condition and retain its dependability, your trolling motor must receive periodic inspections and maintenance. Keep it maintained properly to ensure the safety of you and your passengers. Record all maintenance performed and save maintenance work orders and receipts.

⚠ WARNING: Neglecting to inspect, maintain, or repair your trolling motor can result in product damage or serious injury or death. Do not perform maintenance or service on your trolling motor if you are not familiar with the correct service and safety procedures.

⚠ WARNING: Performing service or maintenance without first disconnecting the battery can cause product damage, personal injury, or death due to fire, explosion, electrical shock, or unexpected motor starting. Always disconnect the battery cables from the battery before maintaining, servicing, installing, or removing motor components.

⚠ WARNING: Using unapproved accessories to repair (or control) your motor may cause damage, unexpected motor operation, and/or injury. Use approved parts and accessories safely and in the manner directed to avoid accidental or unexpected motor operation. Keep all factory installed parts in place, including accessory covers, enclosures, and guards.

Before each use

- Inspect for loose or corroded wiring connections.
- Check the tightness of the battery cable connections. Stainless steel nuts are recommended for securing the battery cables to their terminals.
- Check the propeller blades for damage.
- Check the tightness of the propeller nut.
- If you have a propeller shaft anode installed, check it is tight.
- Check the tightness of the mount to the deck of the boat.

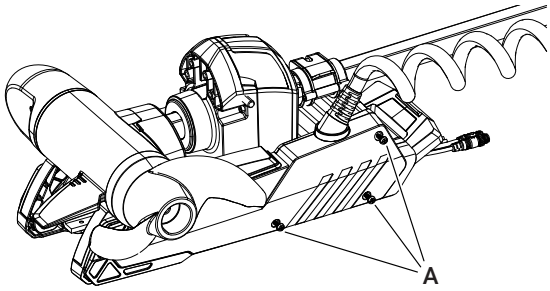
After each use

- Disconnect the battery cables from the power source, or unplug the motor from the boat or open the installed breaker.
- Recharge the trolling motor batteries (and foot pedal 12 V power supply, if applicable) as soon as possible. The ideal state for a battery is fully charged.
- Check each side of the propeller and shaft and remove debris such as weeds. If you find fishing line on the propeller, remove the propeller in order to remove all fishing line wrapped around the shaft.
- Check the propeller blades for damage.
- Check the tightness of the propeller nut.
- If you have a propeller shaft anode installed, check it is tight.
- Rinse the trolling motor with fresh clean water after use in a brackish environment or saltwater environment. Take care using a jet or high-pressure wash to clean the trolling motor, because it can dislodge pins and plugs. To clean pins and plugs, use a dry brush.
- If required, wash the trolling motor with warm soapy water and gently wipe with a soft cloth. Never use abrasive products or products containing solvents (acetone, mineral turpentine), acid, ammonia or alcohol to clean the trolling motor as they can damage the plastic housing.
- Check battery level for batteries inside the remote. Replace if needed. Turn the remote off.
- Check battery level for batteries inside the foot pedal, if applicable. Replace if needed. Ensure the foot pedal is turned off after use.

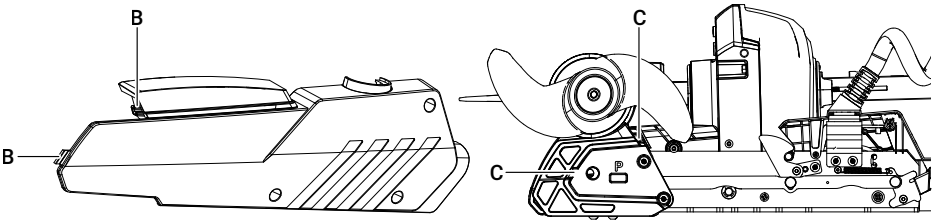
Every 100 hours of use or annually (whichever occurs first)

Use a marine grease such as Quicksilver 2-4-C with PTFE to lubricate the mechanisms on the trolling motor mount.

1 Loosen the side plate screws from each side of the mount (**A**). The screws are retained by washers.



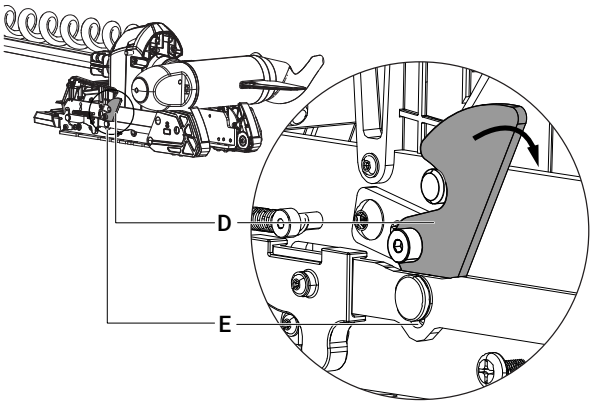
2 Remove the side plates from both sides of the mount, taking care not to damage the locating tabs (**B**) as they leave their slots (**C**).



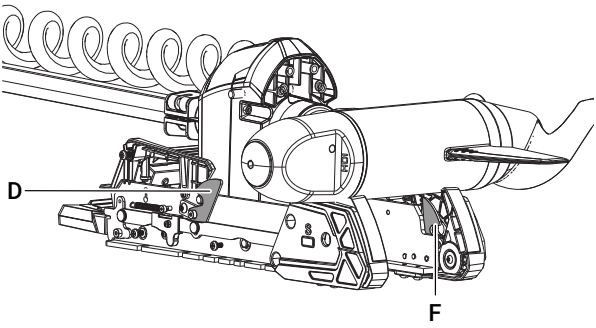
3 Identify the stow latch (**D**) on the trolling motor mount, then apply grease to the slot (**E**) in the linkage at the stow latch.

4 Repeat for the same location on the other side of the mount.

5 Press and release the stow/deploy release lever several times to distribute the grease.



6 If latches on the mount (**D**, **F**) start to become rough, worn, or start to make noise, apply a thin coat of Quicksilver 2-4-C with PTFE to the top surface of each latch, on both sides of the mount.



7 Replace the side plates on the mount.

Battery inspection

The power supply batteries should be inspected at periodic intervals to ensure proper trolling motor operation.

→ ***Note:*** *Read the safety and maintenance instructions that accompany your battery.*

1 Ensure the battery is secured to the vessel.

2 Ensure battery cable terminals are clean, tight, and correctly installed.

3 Ensure the battery is equipped with a battery box to prevent accidental shorting of the battery terminals.

Storage preparation

The major consideration in preparing your trolling motor for storage is to protect it from corrosion and damage caused by freezing of trapped water. It is also recommended that batteries are disconnected prior to storage and that the batteries are stored indoors in a dry location during long-term storage. The batteries should also be removed from the remote and wireless foot pedal for long-term storage. Store the trolling motor in a dry location where it will not be affected by temperatures below –29 °C (–20 °F).

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