

Preface

As Navico is continuously improving this product, we retain the right to make changes to the product at any time, which may not be reflected in this version of the manual. Please contact your nearest distributor if you require any further assistance.

It is the owner's sole responsibility to install and use the product and transducers in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for observing safe boating practices.

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Warranty

The warranty card is supplied as a separate document. In case of any queries, refer to the brand web site of your display or system:

www.lowrance.com

Compliance Statements

Europe

Navico declare under our sole responsibility that the product conforms with the requirements of:

- Trolling motor CE under RED Directive 2014/53/EU
- Compass CE under EMC Directive 2014/30/EU

The relevant declaration of conformity is available in the product's section at the following website:

www.lowrance.com

United States of America

Navico declare under our sole responsibility that the product conforms with the requirements of:

- Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- **Warning:** The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- → Note: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver is connected.
- Consult the dealer or an experienced technician for help.

ISED Canada

This device complies with Innovation, Science and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

La traduction française de ce document est disponible sur le site Web du produit.

Australia and New Zealand

Navico declare under our sole responsibility that the product conforms with the requirements of:

- Level 2 devices of the Radiocommunications (Electromagnetic Compatibility) standard 2017.
- Radiocommunications (Short Range Devices) Standards 2014.

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Introduction

About this manual

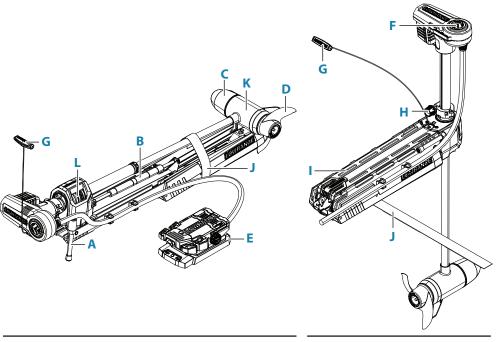
This manual is a reference guide for installation and operation of the trolling motor. Important text that requires special attention from the reader is emphasized as follows:

- → Note: Used to draw the reader's attention to a comment or some important information.
- Warning: Used when it is necessary to warn personnel that they should proceed carefully to prevent risk of injury and/or damage to equipment/personnel.

Limitations

! Warning: This product is intended to be used in freshwater only and a sacrificial anode (sold separately) is required for use in brackish water. Use of the product in brackish water (without the anode) or saltwater will void the warranty.

Product overview



Stowed position

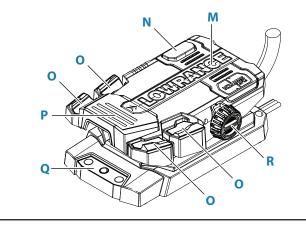
Deployed position

A Stabilizer

Supports the trolling motor when in the stowed position.

- **B** Stow and deploy assist spring Reduces the force needed to stow and deploy the trolling motor.
- C HDI Nose cone transducer
- D Propeller
- **E** Foot pedal
- F Direction indicator
- **G** Braided stainless steel pull cable and handle Used when stowing and deploying the trolling motor. The trolling motor is latched in both stowed and deployed positions, pulling the cable releases the latching.
- H Depth adjustment knob When loosened, the lower unit depth can be adjusted.

- Motor mount
- J Stow strap
- K Lower unit
- L 360 breakaway



Foot pedal

- M Toe end
- N Momentary switch
- Mode and action keys
- P Heel end
- **Q** Power key and battery capacity indicator
- R Speed adjustment knob

Safe operation with the trolling motor

Do not use automatic steering when:

- In heavy traffic areas or in narrow waters
- In poor visibility or extreme sea conditions
- In areas where use of an autopilot is prohibited by law

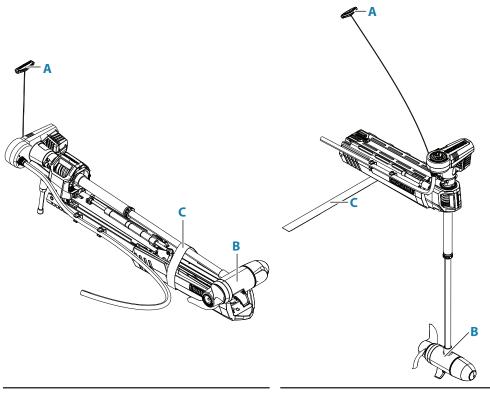
When using a trolling motor:

- Do not place any magnetic material or equipment near the heading sensor used by the trolling motor system
- Verify at regular intervals the course and position of the vessel

! Warning:

- Do not run the propeller out of the water. Doing so may cause serious injuries.
- Disconnect power when the motor is being stored, transported or not in use for extended periods of time.
- Always disconnect motor from the batteries before cleaning or checking the propeller.
- Do not attempt to disassemble the 360 breakaway.
- Keep fingers clear from moving parts when stowing or deploying the trolling motor.

Deploying and stowing the trolling motor



Stowed position

Deployed position

Deploying

- 1 Release the stow strap (C) and pull the Braided stainless steel pull cable and handle (A) to unlatch the trolling motor from the stowed position.
- **2** Lift the trolling motor from the stowed position and tilt it down until it is locked in the deployed position.
 - If the trolling motor is turned ON, the lower unit will position itself according to the foot pedal position.
 - If the trolling motor is turned OFF, the lower unit will be deactivated until the trolling motor is turned ON and the foot pedal operated.
- 3 Make sure that the trolling motor is fully deployed and latched in the deployed position.

Stowing

The trolling motor should be turned ON during the stowing operation. This will ensure that the lower unit is adjusted to its stowing position.

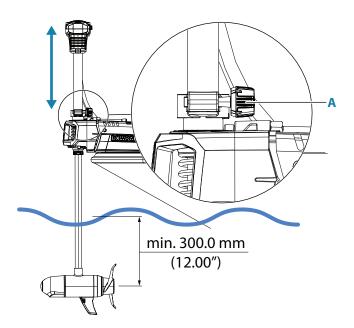
- 1 Pull the Braided stainless steel pull cable and handle (A) to unlatch the trolling motor from the deployed position.
- 2 Lift the pull cable up and backward to slowly lift the trolling motor into the stowed position.
- **3** Tilt the trolling motor to the stow position. The lower unit (**B**) will automatically adjust to the proper stowing angle.
- 4 If necessary, push the trolling motor down against the deck of the boat until it locks in the stow position. Attach the stow strap (C).

Adjusting the trolling motor

2

Depth adjustment

- 1 Loosen the depth adjustment knob (A).
- 2 Raise or lower the motor assembly to the desired level.
- **3** Tighten the depth adjustment knob (**A**).



How to use the FlipSwitch

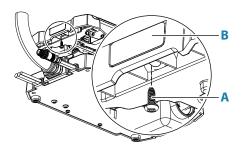
The FlipSwitch allows you to move the momentary switch (propeller ON) from the left to the right side.

Tools required

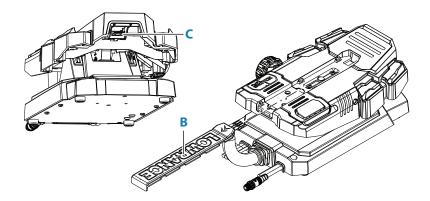
• 1x Phillips screwdriver #2

Procedure

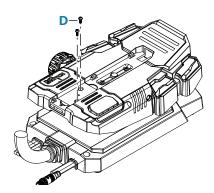
1 Remove the lock screw (A) that secures the cover plate (B).



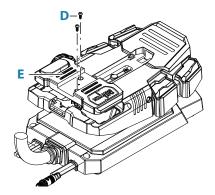
2 Press the locking tab (C) upwards and slide the cover plate (B) forward until it is free.



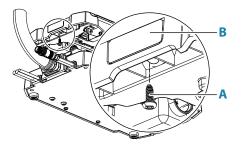
3 Remove the screws (D) that secures the FlipSwitch assembly.



4 Turn the FlipSwitch assembly **(E)** 180° and fasten the screws **(D)** that secure the FlipSwitch assembly.



5 Slide the cover plate (B) back in place and fasten the lock screw (A).



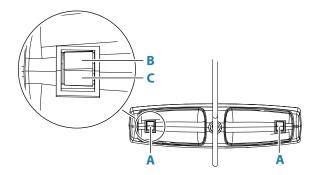
Adjusting the braided stainless steel pull cable length

Tools required

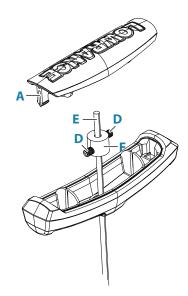
- 2x Small flat headed screwdrivers
- 1x 2 mm hex key
- 1x Side-cutting pliers

Procedure

1 Apply pressure to both sides (**B** and **C**) of the locking tabs (**A**) to remove the handle top cover.



2 Loosen the 2 set screws (**D**) and slide the pull cable (**E**) to the desired length.



- 3 Apply thread locker to the 2 set screws (**D**) if needed. Tighten the set screws and cut the pull cable (**E**) approximately 5 mm (1/5") above the clamp (**F**).
- 4 Re-install the handle top cover by pushing it down onto the handle.

3

Operation

This document describes the foot pedal operation of the trolling motor.

It is also possible to control the trolling motor from a compatible multifunction display unit. Refer to the documentation supplied with your display unit for more information.

Power the trolling motor ON or OFF

Press the power key (A) to power the trolling motor ON or OFF.

The voltage level of the electrical system is indicated when the trolling motor is powered ON.



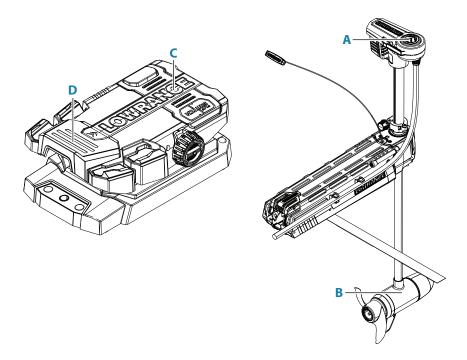
Check the battery capacity

→ *Note:* The battery capacity should only be checked when the trolling motor is not running. Press the test key (A) to activate the indicator LEDs.



Steering with the foot pedal

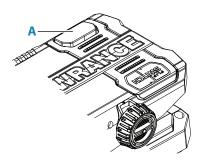
The direction indicator (**A**) shows the direction in which the lower unit (**B**) is pointing. Turn to starboard (right) by pushing the toe end (**C**) of the foot pedal down. Turn to port (left) by pushing the heel end (**D**) of the foot pedal down.



Activating the propeller

The propeller will run as long as the momentary switch (A) is pressed, provided the speed adjustment knob is not in the OFF position.

The propeller will stop when the momentary switch is released.

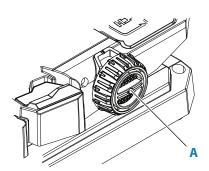


It is also possible to run the trolling motor in Propeller constant ON mode, refer to "Propeller constant ON" on page 16.

→ *Note:* Propeller will not run if the trolling motor is in the stowed position.

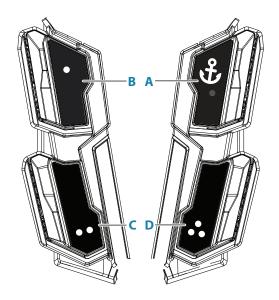
Adjusting the speed

Rotate the speed adjustment knob (A) to increase or decrease the propeller speed.



Select a mode or action

By default the trolling motor is in manual mode, controlled by the foot pedal. Modes can be selected by pressing the mode/action keys.



- A Anchor key
- **B** Configurable key 1 Default function: Propeller constant ON
- C Configurable key 2 Default function: none
- Configurable key 3Default function: none

Modes and actions

→ **Note:** The direction indicator will stay illuminated when in Course lock, Heading lock, or Propeller constant ON. In anchor mode, the direction indicator will illuminate when the propeller is active.

Configure trolling motor keys

The configurable keys can be configured from a compatible multifunction display unit to access the following modes and functionalities in addition to the default modes.

→ *Note:* Please visit www.lowrance.com to ensure your product is compatible and that the display software is up to date. The trolling motor and display must be connected to the same NMEA 2000 network.

To configure the keys, refer to the documentation for your display unit.

Anchor

Maintains the vessel at the current position.

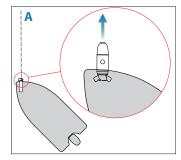
→ Note: When in anchor mode, the vessel heading will be affected by wind and/or current.

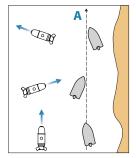
Deactivate anchor mode

Any foot pedal operation will deactivate the mode.

Course lock

In Course lock mode, the vessel is steered along a course line. When the mode is activated, the trolling motor will draw an invisible track line (A) based on current direction of the lower unit. The trolling motor will use the position information to calculate the cross track distance, and automatically steer along the course line.





→ **Note:** If the vessel is drifting away from the course line due to current and/or wind, the vessel will follow the line with a crab angle.

Adjusting speed

Speed can be changed by turning the speed adjustment knob.

→ *Note*: When the mode is activated, the motor will automatically run to the speed level indicated on the speed wheel.

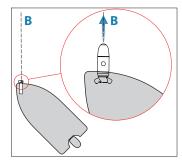
Deactivate course lock mode

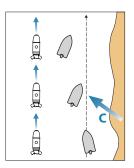
Any foot pedal operation will deactivate the mode.

Heading lock

In this mode, the trolling motor steers the heading of the lower unit on a set heading. When the mode is activated, the trolling motor selects the direction of the lower unit as the set heading.

In heading lock mode, the heading (B) of the trolling motor is locked.





→ *Note*: In this mode, the trolling motor does not compensate for any drifting caused by current and/or wind (C).

Adjusting speed

Speed can be changed by turning the speed adjustment knob.

→ **Note:** When the mode is activated, the motor will automatically run to the speed level indicated on the speed wheel.

Deactivate heading lock mode

Any foot pedal operation will deactivate the mode.

Propeller constant ON

Engages the propeller to spin continuously.

Adjusting speed

Speed can be changed by turning the speed adjustment knob.

→ *Note:* When the mode is activated, the motor will automatically run to the speed level indicated on the speed wheel.

Deactivate constant ON mode

Press any mode key or the momentary switch to deactivate constant ON mode.

Power-Pole auto down

Lowers the Power-Poles all the way down.

Power-Pole auto up

Raises the Power-Poles all the way up.

Create waypoint

Creates a waypoint at the current vessel position.

4

Service and Maintenance

For service contact information, spare parts and accessories refer to: www.lowrance.com

General maintenance

After each use

- Ensure the 6 mm screws securing the motor to the mount are torqued to specification.
- Rinse your trolling motor with freshwater.
- Clean and inspect your propeller for any nicks or abrasions.
 - Remove nicks and abrasions with fine sandpaper or a file.
 - Promptly remove any fishing line or debris that may wedge between the propeller and lower unit.
 - Check the propeller nut and make sure that it is properly tightened.
- Check the battery leads for cuts or abrasions and repair or replace if necessary.
- Disconnect power when the motor is being stored, transported or not in use for extended periods of time.
- Recharge your batteries as soon as possible. The ideal state for a battery is fully charged.

Maintenance schedule

Item	Occurrence	Description
Batteries	Weekly	Check terminals for any corrosion or dirt, clean if necessary.
Mount		
Front latch block	Yearly	Grease the contact surface (A) of the front latch block with calcium sulfonate marine grease.
Braided stainless steel pull cable and handle	Yearly	Visual inspection. Replace if damaged.

Item	Occurrence	Description	
Wear bearing	Yearly	Visual inspection. Replace the wear bearings (A) if necessary. The wear bearings can be pried off using a wide blade flat screwdriver.	
Foot pedal		wide blade hat selewative.	
Electrical terminals	Yearly	Check that terminal screws are not loose, if needed reapply Tef-Gel to the terminals.	
Trolling motor			
Direction indicator	As necessary	Clean the indicator. Remove the indicator by prying it off with a flat head screwdriver. Blow/wash out carefully if necessary.	

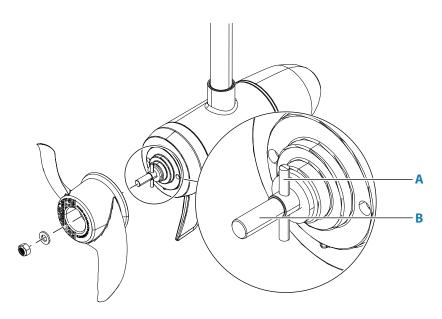
Propeller replacement

Tools required

• 17 mm deep socket

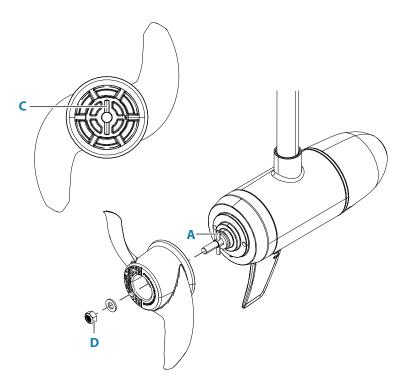
Procedure

1 Remove the propeller and inspect the drive pin (A) and propeller shaft (B) for damage. If the shaft is damaged, contact a service center.



2 Replace any damaged parts. The drive pin (A) can be removed by gently tapping from one side.

- 3 Clean the threads of the propeller shaft of any pre-existing grease and debris and apply included Anti-seize compound prior to installing propeller nut (**D**).
- 4 Install the new propeller. Make sure that the drive pin (A) aligns with the slot in the propeller (C). Torque the propeller nut (D) to 13 Nm (10 lbft).



! Warning: Do not use power tools to remove or install the propeller nut (**D**). Only hand tools should be used for removal and installation of the nut.

Updating the software

The trolling motor software can be updated from the Link application or from a compatible multifunction display unit.

From a compatible multifunction display unit

To update the unit from a compatible multifunction display unit, download the latest software from www.lowrance.com and refer to the display unit's documentation for details about the update procedure.

From the Lowrance application

The Lowrance app can be downloaded from the relevant phone/tablet application store. Follow the prompts in the application to update the trolling motor software.

Force a software upgrade

In the unlikely event that you receive a software version mismatch error, or if the power LEDs are blinking one at a time (1 time per second), you may need to force a software upgrade. To force a software upgrade, enter user configuration mode and hold down the Anchor key and Configurable key 3.

Configuration

For configuration of the trolling motor, refer to the installation manual.

Troubleshooting

Houbicariouting		
Problem	Action	
	Check battery connections for proper polarity.	
	Make sure terminals are clean and corrosion free. Use fine sandpaper or emery cloth to clean terminals.	
Motor not running	Check the condition of the battery, refer to the battery suppliers recommendations.	
	Check for proper battery voltage.	
	Make sure the trolling motor is in the deployed position.	
Motor loses power after a	Check battery charge level.	
short running time	Check power wires and connections, make sure that the correct cable diameter is used.	
Direction indicator hangs up or stutters during rotation	Clean the indicator. Remove the indicator by prying it off with a flat head screwdriver. Blow/wash out carefully if necessary.	
Propeller vibration during	Inspect the propeller and propeller shaft for damage and replace if necessary.	
operation	Remove and rotate the prop 180°.	
Anchoring or heading issues	Perform calibration of the compass and/or bow offset. Refer to the Installation Manual.	
Tralling mater does not	Check the NMEA 2000 wiring.	
Trolling motor does not appear as a device in the display unit	Make sure that the proper sources have been selected. Refer to the documentation supplied with your display unit for more information.	
Connect met the connect -	Check the sonar wiring.	
Cannot get the sonar to work	Verify that the sonar is properly set up on the compatible multifunction display unit.	

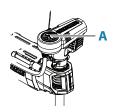
Foot pedal LED indicators

-	Regular usage	. usage	During	During upgrade of	
3	24 V system	36 V system	startup	motor components	n upgrading laned
24 V (A)	NO	OFF	NO	Blinking fast, one at a	Blinking slow, one at a
36 V (B)	OFF	NO	NO	time (10 Hz)	time (1 Hz)
HIGH (C)	ON if	ON if	Z		L
Battery capacity	battery > 23.6 V	battery > 35.4 V	2	5	
MID (D)	JI NO	JI NO	Z		ON if Bluetooth
Battery capacity	23.0 V < battery < 23.6 V	battery < 23.6 V 34.5 V < battery < 35.4 V	2	5	module upgrade failed
LOW (E)	JI NO	JI NO	Z		ON if main controller
Battery capacity	battery < 23.0 V	battery < 34.5 V	2	5	upgrade failed
Anchor key (F)	ON if anchor is the current mode	ne current mode	OFF	OFF	OFF



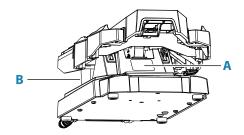


Direction indicator LED and audible feedback



Beep pattern	Direction indicator (A)	Description		
NA	ON	Propeller running.		
		Enabling anchor mode.		
		Enabling heading lock mode.		
Enabling course lock m		Enabling course lock mode.		
1 short beep	NA	Enabling constant ON mode.		
i snort beep		Speed increased (from remote controller or multifunction display).		
		Speed decreased (from remote controller or multifunction display). Disabling anchor mode.		
		Disabling anchor mode.		
2 short hoons	NA	Disabling heading lock mode.		
2 short beeps	INA	Disabling course lock mode.		
		Disabling constant ON mode.		
3 short beeps	2 short flashes	Missing GPS signal.		
3 siloi t beeps	2 SHOIT HASHES	Invalid heading data, check compass connection.		
4 short beeps	OFF	Trolling motor startup sequence completed. Calibration initiated.		
2 long beeps	2 long flashes	Calibration initiated.		
2 iong beeps	2 10119 11431143	Broadcast Bluetooth pairing.		
		Calibration completed.		
3 long beeps	3 long flashes	Bluetooth pairing completed.		
		Factory reset.		
4 long beeps	4 long flashes	Battery level below threshold. Unit will shut off.		
	5 long flashes	High temperature.		
5 long beeps	Fast double LED flashes until error has been resolved	Hardware error: Perform a power cycle to reset the unit. If the problem persists, please contact a service center.		
	10 fast triple LED flashes	Software version mismatch. Refer to "Force a software upgrade" on page 19.		
NA	Blinking (1 Hz)	During upgrade of motor components.		
1471	Jikilig (1112)	During compass calibration.		

Serial number



The serial number of the trolling motor can be found underneath the heel end (A) and the toe end (B) of the foot pedal.



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