MINN KOTA®



ULTERRA® QUEST™

BOW-MOUNT TROLLING MOTOR

Owner's Manual

INTRODUCTION

THANK YOU

Thank you for choosing Minn Kota. We believe that you should spend more time fishing and less time positioning your boat. That's why we build the smartest, toughest, most intuitive trolling motors on the water. Every aspect of a Minn Kota trolling motor is thought out and rethought until it's good enough to bear our name. Countless hours of research and testing provide you the Minn Kota advantage that can truly take you "Anywhere. Anytime." We don't believe in shortcuts. We are Minn Kota. And we are never done helping you catch more fish.

REGISTRATION

Remember to keep your receipt and immediately register your trolling motor on our website at minnkota.johnsonoutdoors.com/register.

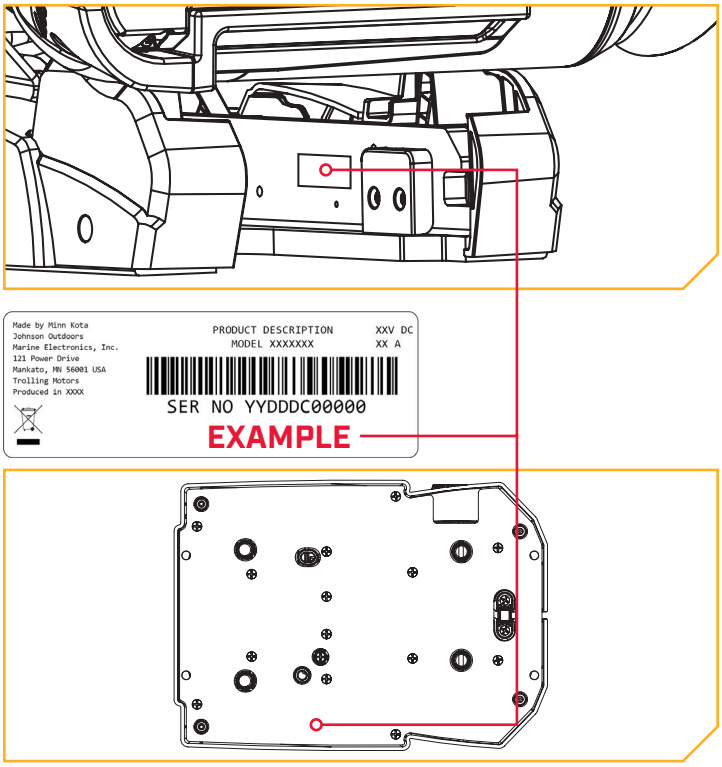
SERIAL NUMBER

Your Minn Kota 11-character serial number is very important. It helps to determine the specific model and year of manufacture. When contacting Consumer Service or registering your product, you will need to know your product's serial number.

NOTICE: The serial number for the Ulterra QUEST is located on the inside of the Mount, behind the left Motor Ramp.

NOTICE: The serial number for the Instant Response Foot Pedal is located on the bottom plate of the foot pedal.

NOTICE: Do not return your Minn Kota motor to your retailer. Your retailer is not authorized to repair or replace this unit. You may obtain service by sending or taking your motor to any Minn Kota authorized service center. A list of authorized service centers is available on our website at minnkota.johnsonoutdoors.com. Please include proof of purchase, serial number and purchase date for warranty service.



MOTOR INFORMATION (For Consumer Reference Only)

Model: _____

Serial Number: _____

Purchase Date: _____

Store Where Purchased: _____

Made for iPhone® 11 and iPhone X

For updated iOS, Humminbird® and Minn Kota® compatibility, visit minnkota.johnsonoutdoors.com

Made for iPhone

Made for Android™

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. iPhone is a trademark of Apple Inc., registered in the U.S. and other countries. The trademark "iPhone" is used in Japan with a license from Aiphone K.K.

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SAFETY CONSIDERATIONS

Please thoroughly read the user manual. Follow all instructions and heed all safety and cautionary notices. Use of this motor is only permitted for persons that have read and understood these user instructions. Minors may use this motor only under adult supervision.

⚠ WARNING

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

⚠ WARNING

Never run the motor out of the water, as this may result in injuries from the rotating propeller. The motor should be disconnected from the power source when it is not in use or is off the water. When connecting the power-supply cables of the motor to the battery, ensure that they are not kinked or subject to chafe and route them in such a way that persons cannot trip over them. Before using the motor make sure that the insulation of the power cables is not damaged. Disregarding these safety precautions may result in electric shorts of battery(s) and/or motor. Always disconnect motor from battery(s) before cleaning or checking the propeller. Avoid submerging the complete motor as water may enter the lower unit through control head and shaft. If the motor is used while water is present in the lower unit considerable damage to the motor can occur. This damage will not be covered by warranty.

⚠ WARNING

Take care that neither you nor other persons approach the turning propeller too closely, neither with body parts nor with objects. The motor is powerful and may endanger or injure you or others. While the motor is running watch out for persons swimming and for floating objects. Persons whose ability to run the motor or whose reactions are impaired by alcohol, drugs, medication, or other substances are not permitted to use this motor. This motor is not suitable for use in strong currents. The constant noise pressure level of the motor during use is less than 70dB(A). The overall vibration level does not exceed 2,5 m/sec2.

⚠ WARNING

When stowing or deploying the motor, keep fingers clear of all hinge and pivot points and all moving parts. In the event of unexpected operation, remove power leads from the battery.

⚠ WARNING

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

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⚠ CAUTION

Please thoroughly read the user manual. Follow all instructions and heed all safety and cautionary notices. Use of this product is only permitted for persons that have read and understood the user instructions. Minors may use this product only under adult supervision.

⚠ WARNING

Take care that neither you nor other persons approach the turning propeller too closely, neither with body parts nor with objects. The motor is powerful and may endanger or injure you or others. Stay clear of the Prop and watch out for accidental engagement.

⚠ WARNING

Ensure the motor is safely stowed for transport to prevent injury from unexpected motor movement. The motor is not safely stowed for transport until the orange STOWED LED on the Indicator Panel is illuminated. Always safely secure the motor for transport to prevent injury.

⚠ WARNING

When trimming the motor, keep fingers clear of all hinges, pivot points and all moving parts. These points of contact may cause injury. Keep hands clear of the motor to prevent injury.

⚠ WARNING

While Trim Up or Trim Down is pressed, the motor will automatically trim. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is being trimmed to prevent accidental contact with the rotating Prop.

⚠ WARNING

When stowing or deploying the motor, keep fingers clear of all hinges, pivot points, and all moving parts. When stowing and deploying the motor, ensure that it doesn't contact the boat, trailer, or any other obstruction.

⚠ WARNING

As soon as Stow is selected, the motor will automatically stow. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing or deploying to prevent accidental contact with the rotating Prop.

⚠ WARNING

As soon as Deploy is selected, the motor will automatically deploy. Be sure that the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing or deploying to prevent accidental contact with the rotating Prop.

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WARRANTY

WARRANTY ON MINN KOTA FRESHWATER TROLLING MOTORS

Minn Kota Freshwater Trolling Motors - Limited Lifetime Warranty On Composite Shaft And Limited Two-Year Warranty On The Entire Product

Johnson Outdoors Marine Electronics, Inc. ("JOME") extends the following limited warranty to the original retail purchaser only. Warranty coverage is not transferable.

Minn Kota Limited Two-Year Warranty on the Entire Product

JOME warrants to the original retail purchaser only that the purchaser's new Minn Kota freshwater trolling motor will be materially free from defects in materials and workmanship appearing within two (2) years after the date of purchase. JOME will (at its option) either repair or replace, free of charge, any parts found by JOME to be defective during the term of this warranty. Such repair, or replacement shall be the sole and exclusive liability of JOME and the sole and exclusive remedy of the purchaser for breach of this warranty.

Minn Kota Limited Lifetime Warranty on the Composite Shaft

JOME warrants to the original retail purchaser only that the composite shaft of the purchaser's Minn Kota trolling motor will be materially free from defects in materials and workmanship appearing within the original purchaser's lifetime. JOME will provide a new composite shaft, free of charge, to replace any composite shaft found by JOME to be defective during the term of this warranty. Providing a new composite shaft shall be the sole and exclusive liability of JOME and the sole and exclusive remedy of the purchaser for breach of this warranty; and purchaser shall be responsible for installing, or for the cost of labor to install, any new composite shaft provided by JOME.

Exclusions and Limitations

This limited warranty does not apply to products that have been used in saltwater or brackish water, commercially or for rental purposes. This limited warranty does not cover normal wear and tear, blemishes that do not affect the operation of the product, or damage caused by accidents, abuse, alteration, modification, shipping damages, acts of God, negligence of the user or misuse, improper or insufficient care or maintenance. **DAMAGE CAUSED BY THE USE OF OTHER REPLACEMENT PARTS NOT MEETING THE DESIGN SPECIFICATIONS OF THE ORIGINAL PARTS WILL NOT BE COVERED BY THIS LIMITED WARRANTY.** The cost of normal maintenance or replacement parts which are not in breach of the limited warranty are the responsibility of the purchaser. Prior to using products, the purchaser shall determine the suitability of the products for the intended use and assumes all related risk and liability. Any assistance JOME provides to or procures for the purchaser outside the terms, limitations or exclusions of this limited warranty will not constitute a waiver of the terms, limitations or exclusions, nor will such assistance extend or revive the warranty. JOME will not reimburse the purchaser for any expenses incurred by the purchaser in repairing, correcting or replacing any defective products or parts, except those incurred with JOME's prior written permission. **JOME'S AGGREGATE LIABILITY WITH RESPECT TO COVERED PRODUCTS IS LIMITED TO AN AMOUNT EQUAL TO THE PURCHASER'S ORIGINAL PURCHASE PRICE PAID FOR SUCH PRODUCT.**

Minn Kota Service Information

To obtain warranty service in the U.S., the product believed to be defective, and proof of original purchase (including the date of purchase), must be presented to a Minn Kota Authorized Service Center. Go to minnkota.johnsonoutdoors.com/support/service-providers/locate to find a Minn Kota Authorized Service Center. Any charges incurred for service calls, transportation or shipping/freight to/from the Minn Kota Authorized Service Center, labor to haul out, remove, re-install or re-rig products removed for warranty service, or any other similar items are the sole and exclusive responsibility of the purchaser. Products purchased outside of the U.S. must be returned prepaid with proof of purchase (including the date of purchase and serial number) to any Authorized Minn Kota Service Center in the country of purchase. To contact Minn Kota Technical Support go to minnkota-help.johnsonoutdoors.com/hc. **Products repaired or replaced will be warranted for the remainder of the original warranty period, or for 90 days from the date of repair or replacement, whichever is longer. For any product that is returned for warranty service that JOME finds to be not covered by or not in breach of this limited warranty, there will be a billing for services rendered at the prevailing labor rate of the applicable Minn Kota Authorized Service Center and for a minimum of at least one hour.**

Service Provider Locator

Contact Technical Support

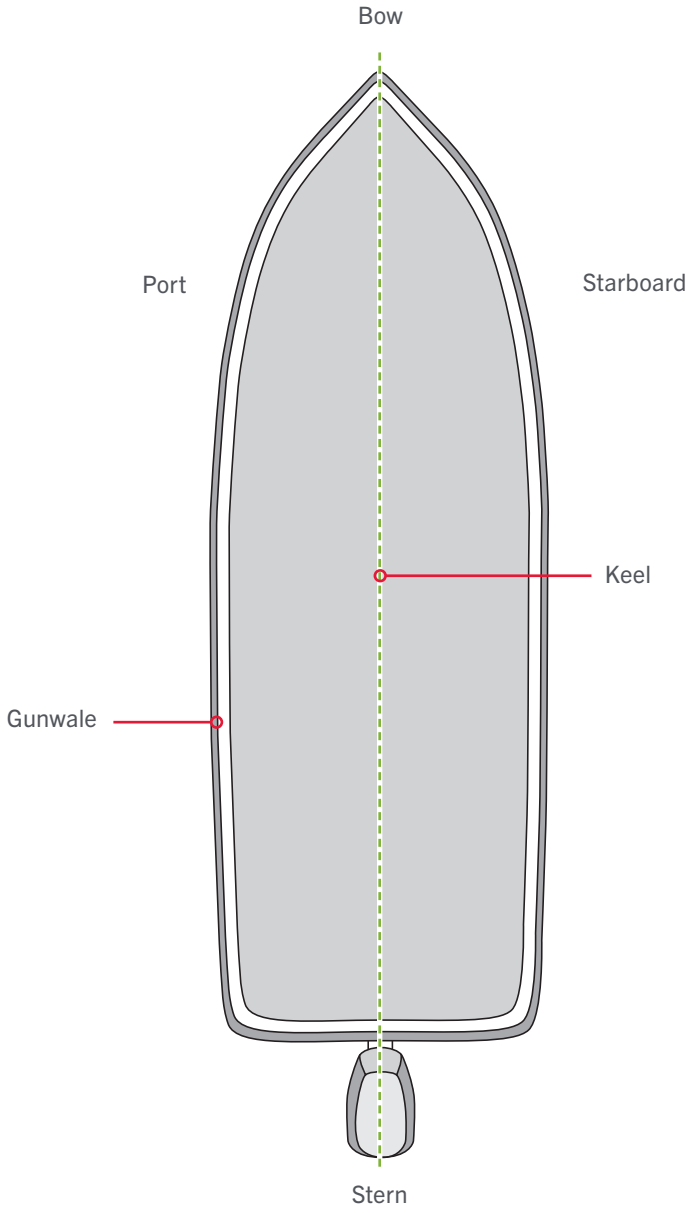
NOTICE: Do not return your Minn Kota product to your retailer. Your retailer is not authorized to repair or replace products.

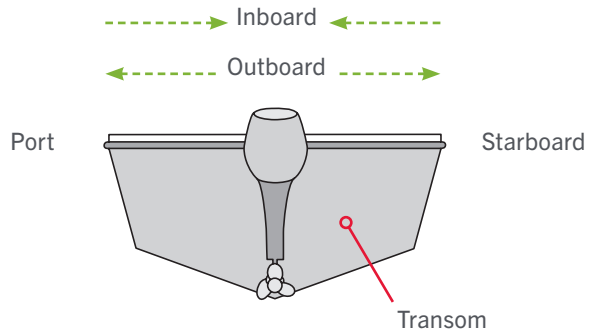
NOTICE: THERE ARE NO EXPRESS WARRANTIES OTHER THAN THESE LIMITED WARRANTIES. IN NO EVENT SHALL ANY IMPLIED WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, EXTEND BEYOND THE DURATION OF THE RELEVANT EXPRESS LIMITED WARRANTY. IN NO EVENT SHALL JOME BE LIABLE FOR PUNITIVE, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. Without limiting the foregoing, JOME assumes no responsibility for loss of use of product, loss of time, inconvenience or other damage.

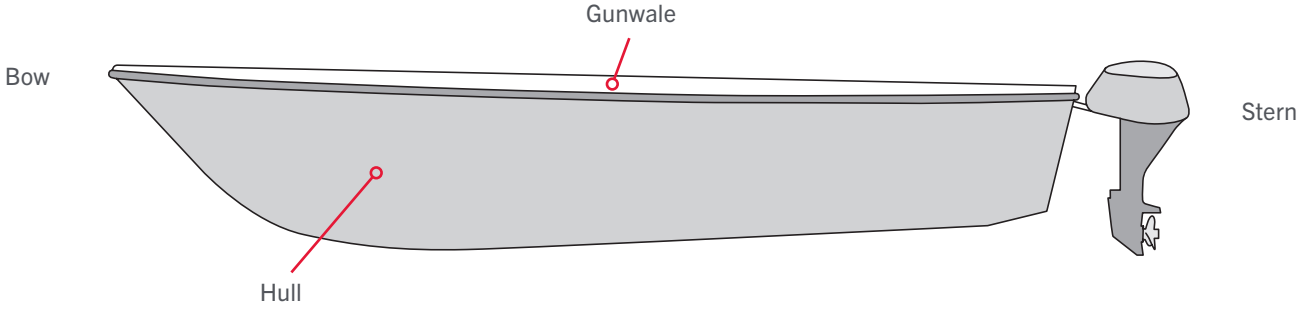
Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and/or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

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KNOW YOUR BOAT

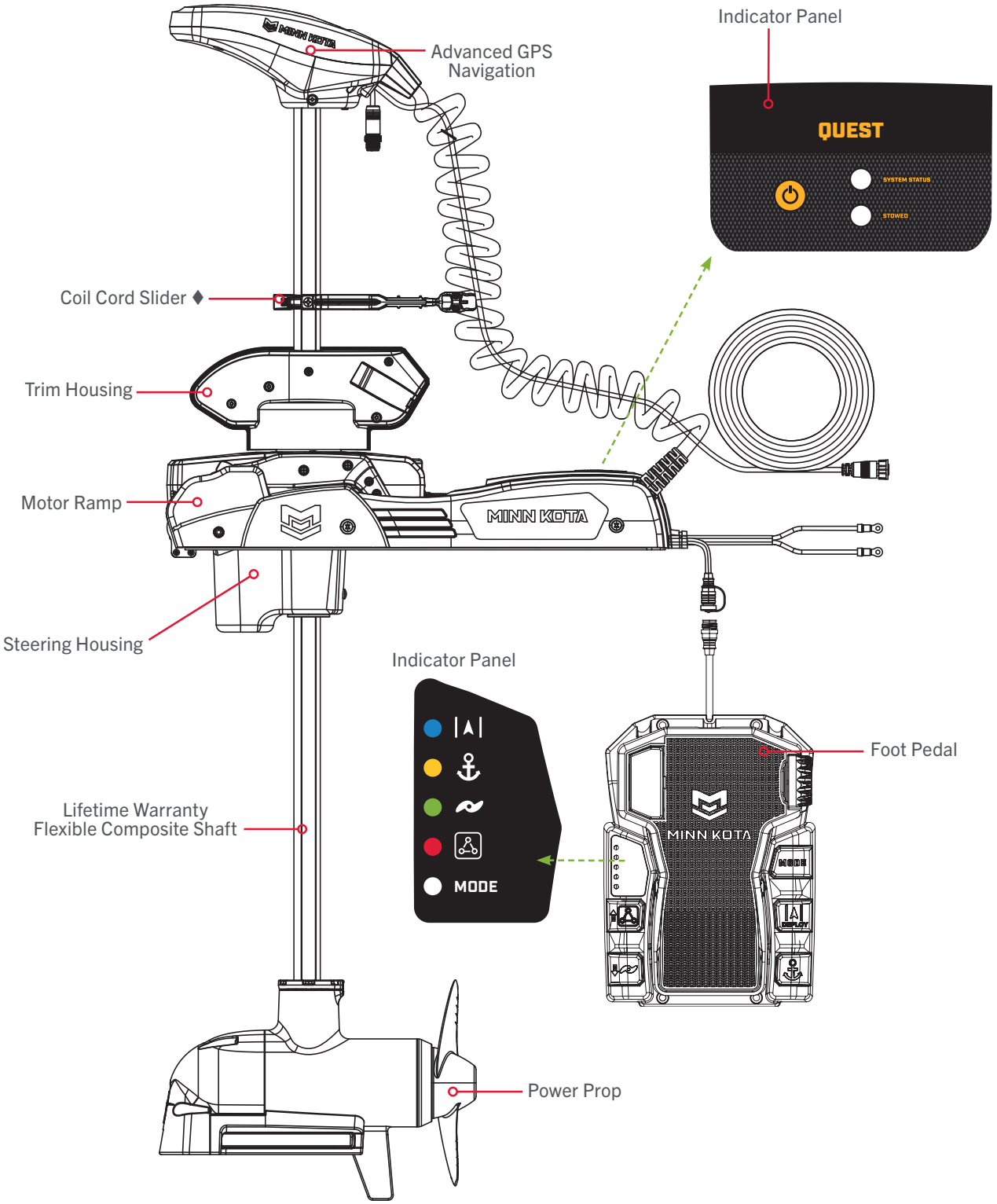






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FEATURES



♦ *Only on models with a 72" shaft length.*

NOTICE: Specifications subject to change without notice. This diagram is for reference only and may differ from your actual motor.

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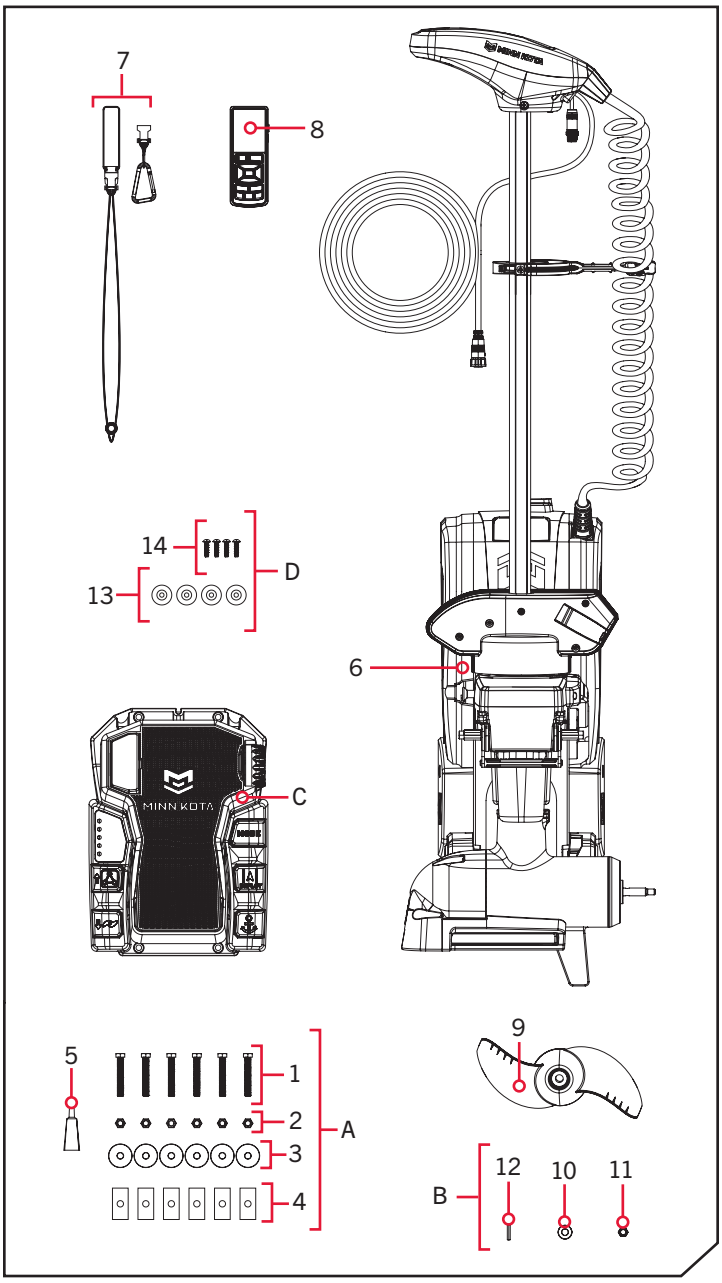
INSTALLATION

INSTALLING THE ULTERRA QUEST

The Ulterra® QUEST™ comes with everything needed to install it directly to the boat. Mount the motor directly to the bow or pair it with a Minn Kota quick release bracket for easy mounting and removal. For compatible quick release brackets and to locate the nearest dealer, visit minnkota.johnsonoutdoors.com. To install the motor directly to the boat, follow the instructions provided in this document. Please review the parts list, mounting considerations and tools needed for installation before getting started. For additional product support, visit minnkota.johnsonoutdoors.com.

INSTALLATION PARTS LIST ❯

Item / Assembly	Part #	Description	Qty.
A (Includes 1-5)	2994948	BAG ASM, INSTINCT, T3 BL HDW	1
1	2323440	SCREW-3/8-16 X 2 1/2 HHCS SS	6
2	2383122	NUT 3/8-16 NYLON INST LOCKNUT	6
3	2321710	WASHER, RUBBER MOUNT	6
4	2371796	BACKUP BAR 3/16 X 1 X 2	6
5	2378608	ANTI SEIZE TUBE, 4CC, TALON	1
6	✖	MOTOR ASSEMBLY	1
7	2390802	LANYARD w/CARARBINER IP RMT U2	1
8	411690-1	TROLLING MOTOR REMOTE	1
9	2321170	PROP, POWER REAMED	1
B (Includes 10-12)	2992604	BAG ASSM, PROP HARDWARE	1
10	2091701	WASHER-PROP (LARGE) MAX101	1
11	2093101	NUT-PROP,NYLOC,LG,MX101 3/8 SS	1
12	2262657	PIN-DRIVE 1" X 3/16 718 INCL	1
C	2994411	ULTERRA 2.0 RES FP	1
D (Includes 13-14)	2995121	BAG ASM, FP, BUMPER PAD	1
13	2265121	BUMPER, RUBBER SS	4
14	2373563	SCREW-#12-16 X 3/4 SS	4
▲	2207180	INSTALL GUIDE ULTERRA	1
▲	2207181	CHECKLIST, ULTERRA QUEST	1
▲	2207142	QRG, ULT Q/INST Q	1
▲	2207143	QRG INSTINCT/ULTERRA	1



▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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MOUNTING CONSIDERATIONS

MOUNTING CONSIDERATIONS ❯

It is recommended that the motor be mounted as close to the centerline or keel of the boat as possible. Make sure the area under the mounting location is clear to drill holes and install hardware. The mounting surface for the Ulterra QUEST must be flat. Rubber washers can be used to shim the base extrusion flat before hardware is tightened.

The motor must not encounter any obstructions as it is lowered into the water or raised into the boat when stowed and deployed. When stowed, ensure that there is enough room for the Shaft and Control Head and that they do not extend off the side of the boat.

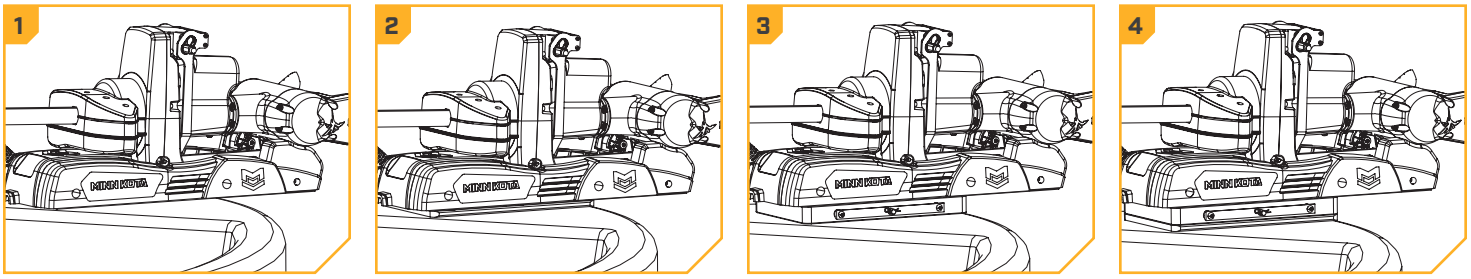
View accessories available for your trolling motor at minnkota.johnsonoutdoors.com.

All six mounting holes must be used when securing the Ulterra QUEST to the boat deck. If the desired mounting location does not allow for all six mounting holes and mounting bolts, a Boat Deck Reinforcement Kit (1854086) should be used or a new mounting location selected. Consider a quick release bracket with the installation of your motor.

Mounting options for the Ulterra QUEST include:

1. Installing the motor directly to the boat deck
2. Mounting the motor with an MKA-86 Boat Deck Reinforcement Kit (1854086)
3. Mounting the motor with an MKA-84/RTA-83 composite quick release bracket (1854084 - black/1854083 - white) or an MKA-85 sliding quick release bracket (1854085)
4. Combining an MKA-86 Boat Deck Reinforcement Kit and an MKA-84/RTA-83 Quick Release Bracket with the Ulterra QUEST

When mounting the Ulterra QUEST directly to the boat, follow the installation instructions outlined in this manual. If an accessory bracket will be used to mount the Ulterra QUEST, follow the installation instructions provided with the mounting accessory. To view a list of compatible accessories, visit minnkota.johnsonoutdoors.com.



TOOLS AND RESOURCES REQUIRED ❯

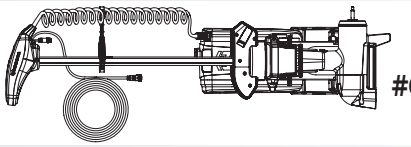
- #3 Phillips Screwdriver
- Drill
- 3/8” Drill Bit
- Awl or similar marking tool
- 9/16” Open/Box End Wrench
- 9/16" Deep Well Socket
- A second person to help with the installation

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INSTALLING THE ULTERRA QUEST

1

ITEM(S) NEEDED



#6 x 1

a. Place the trolling motor (Item #6) on an elevated, level surface, such as a workbench or the tailgate of a pickup. The motor, as removed from the box, should be in the stowed position.

b. Make sure that the Power Cables from the battery are disconnected or that the breaker, if equipped, is "off."

⚠ WARNING

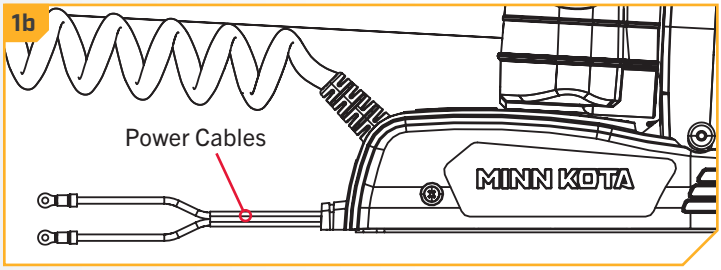
Make sure the motor is on a level surface and is not connected to a power source.

NOTICE: The trolling motor weighs up to 90lb. Minn Kota recommends having a second person help with the installation.

1a



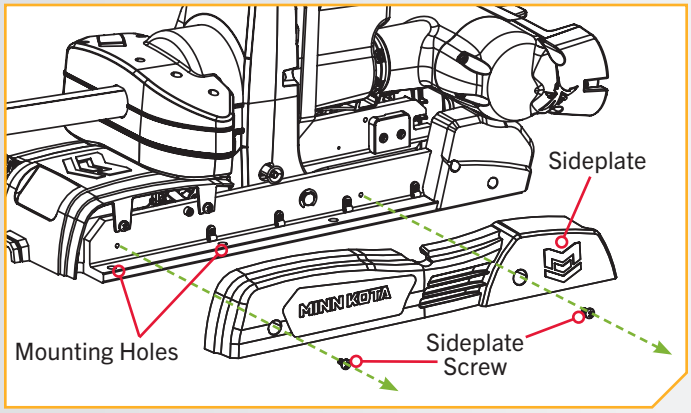
1b



2

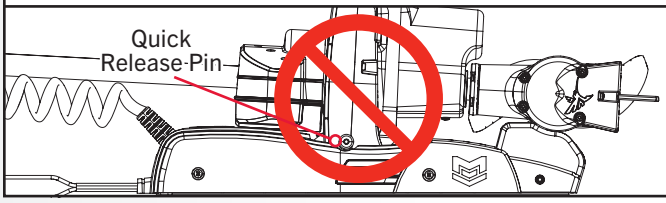
c. Remove the four Sideplate Screws using a #3 Phillips Screwdriver. Two of these screws will be located on each side of the mount.

d. Remove the Right Sideplate and the Left Sideplate to expose the six mounting holes in the Base Extrusion.



⚠ CAUTION

The Quick Release Pin is intended for manual stowing only. To prevent damage and injury, persons shall not remove the Quick Release Pin from a stowed trolling motor. Do not deploy the motor until it is fully mounted to the boat; deploying the motor before it is mounted to the boat may cause injury. For proper installation clearance, position the motor so the entire Slot in the Base Extrusion is visible beyond the boat Gunwale. This reference point provides the minimum required distance of 1½" between the Gunwale and the bottom of the Steering Housing and Shaft when the motor is in use.



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3

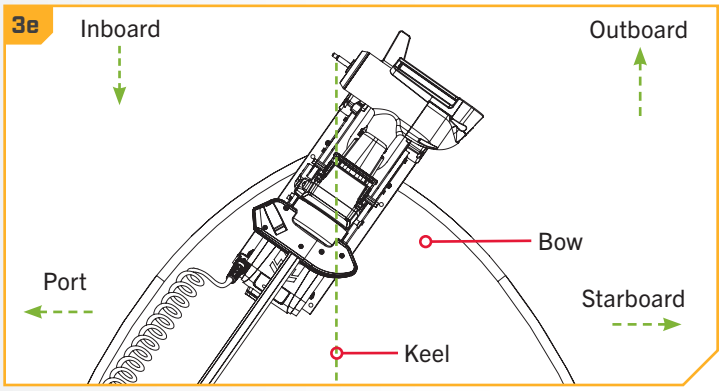
e. Review the mounting considerations at the beginning of the Installation section for proper clearance. Place the motor on the bow of the boat at the intended mounting location, as close to the centerline or keel as possible. Ensure there is enough room for the Shaft and Control Head and that they do not extend off the side of the boat. The motor can be installed on either the Port or Starboard side of the bow, based on personal preference.

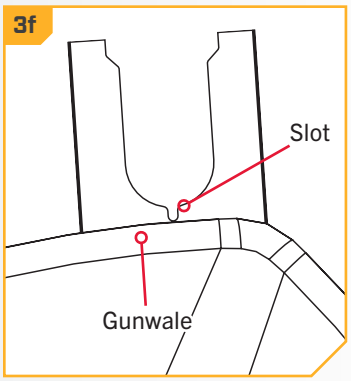
f. Position the motor so that the Slot in the Base Extrusion is positioned beyond the boat Gunwale. For proper clearance, the entire Slot must be visible beyond the Gunwale. When the motor is deployed, there must be a minimum required distance of 1½" between the Gunwale and the bottom of the Steering Housing and Shaft.

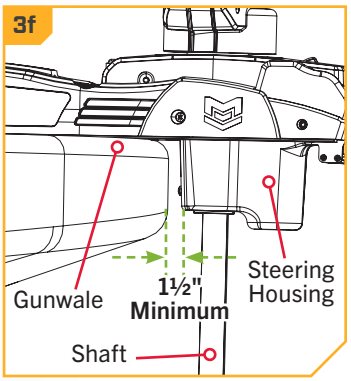
⚠ CAUTION

Illustrations are for reference only. Do not deploy the motor until it is fully mounted to the boat. Deploying the motor before it is mounted to the boat may cause injury.

g. When mounting the Ulterra QUEST, all six mounting holes must be used. If the desired mounting location does not allow for all six mounting holes, a Boat Deck Reinforcement Kit (1854086) should be used or a new mounting location selected.







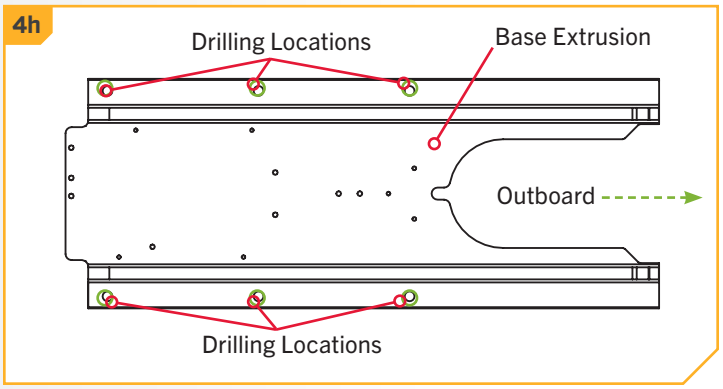
4

h. With the motor at the intended mounting location, take an Awl or similar tool and mark all six mounting holes in the Base Extrusion.

i. Slide the motor aside to drill the mounting holes. Drill through the boat deck using a Drill and a 3/8" Drill Bit on all six marked locations.

j. Reposition the motor over the drilled holes to install mounting hardware.

NOTICE: The mounting surface for the Ulterra QUEST must be flat. Rubber Washers can be used to shim the Base Extrusion flat before hardware is tightened.



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5

ITEM(S) NEEDED


#1 x 3


#2 x 3


#3 x 3


#4 x 3

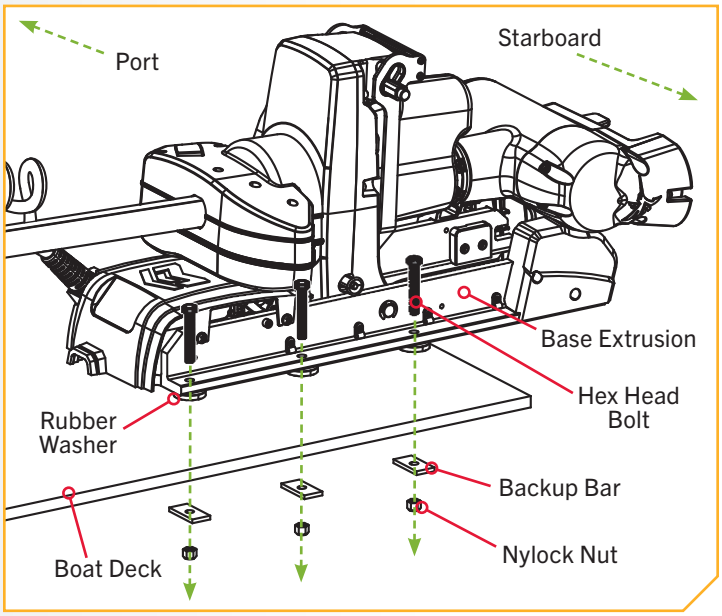

#5 x 1

NOTICE: To prevent seizing of the stainless steel hardware, do not use high-speed installation tools. Wetting the bolts or applying an anti-seize (Item #5) may help prevent seizing.

k. Begin on the Starboard side of the motor.

l. Take three Hex Head Bolts (Item #1) and apply anti-seize (Item #5) to each Bolt. Insert the Bolts through the Base Extrusion and into the drilled locations. If Rubber Washers (Item #3) are used, the Rubber Washers should sit between the Base Extrusion and boat deck.

m. Place a Backup Bar (Item #4) and then a Nylock Nut (Item #2) on the end of each Bolt. Tighten with a 9/16" Box End or Open End Wrench. Make sure all hardware is secure.



NOTICE: Use extra care to avoid pinching and damaging the sensor wires that run alongside the Base Extrusion when installing and tightening the mounting hardware.

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6

ITEM(S) NEEDED


#1 x 2


#2 x 2


#3 x 2


#4 x 2

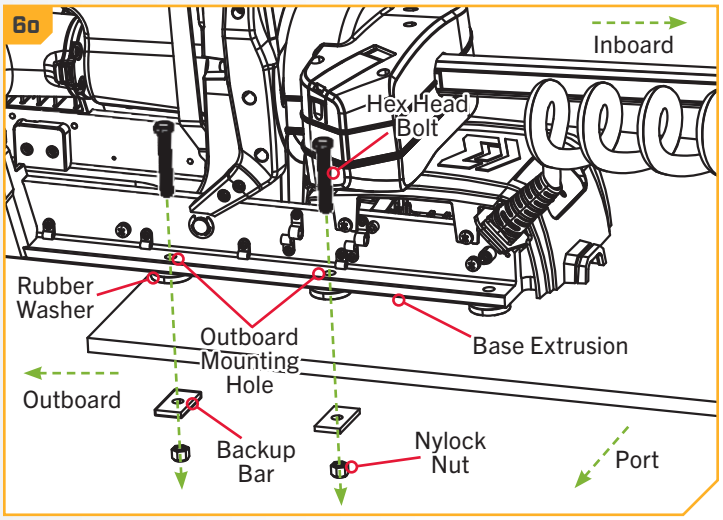

#5 x 1

NOTICE: To prevent seizing of the stainless steel hardware, do not use high-speed installation tools. Wetting the bolts or applying an anti-seize (Item #5) may help prevent seizing.

n. Move to the Port side of the motor.

o. Take two Hex Head Bolts (Item #1) and apply anti-seize (Item #5) to both Bolts. Insert the Bolts down through the Base Extrusion and into the two mounting holes furthest outboard. If Rubber Washers (Item #3) are used, the Rubber Washers should sit between the Base Extrusion and boat deck.

p. Place a Backup Bar (Item #4) and then a Nylock Nut (Item #2) on the end of each Bolt. Tighten with a 9/16" Box End or Open End Wrench. Make sure all hardware is secure.



NOTICE: Use extra care to avoid pinching and damaging the sensor wires that run alongside the Base Extrusion when installing and tightening the mounting hardware.

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7

ITEM(S) NEEDED


#1 x 1


#2 x 1


#3 x 1


#4 x 1

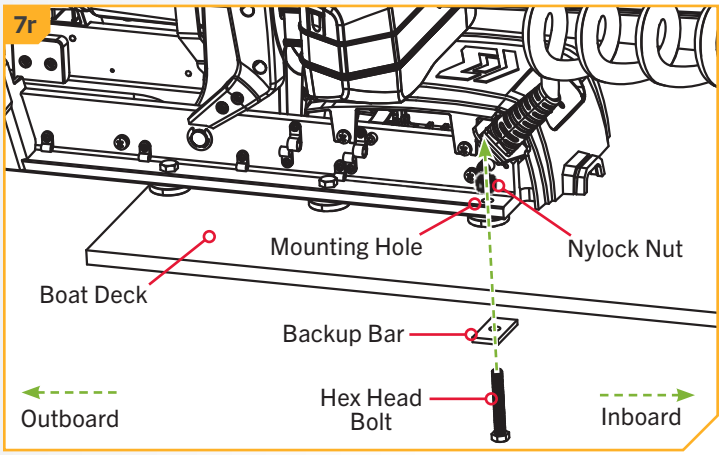

#5 x 1

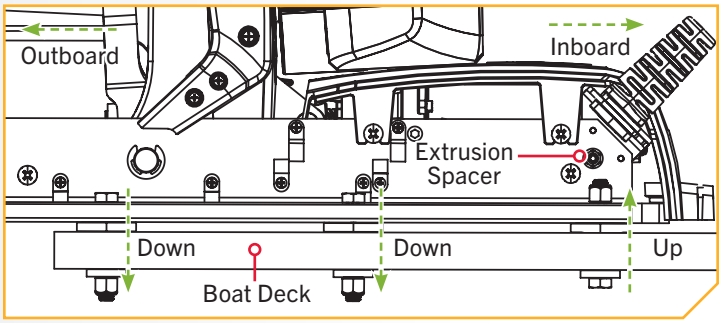
q. To complete the installation, the last Bolt must be inserted into the Base Extrusion from the bottom up.

r. Take one Hex Head Bolt (Item #1) and apply anti-seize (Item #5) to the Bolt. Place a Backup Bar (Item #4) onto the Bolt, then insert the Bolt up through the boat deck. The Bolt will pass through the boat deck, Rubber Washer (Item #3) if used, then the Base Extrusion.

s. While holding the Bolt in place, take a Nylock Nut (Item #2) and place it on the end of the Bolt. Check that the end of the Bolt does not collide with the Extrusion Spacer. Secure the Nylock Nut against the Base Extrusion with a 9/16" Box End or Open End Wrench. Ensure the threads of the Bolt are visible past the end of the Nylock Nut.

NOTICE: The Backup Bar and Hex Head Bolt must be flush against the boat deck. Due to variances in boat deck material, a different bolt length or additional spacing washers may be required. Spacing washers should be placed between the Hex Head Bolt and Backup Bar. Any alternative hardware used to install the motor must be stainless steel.



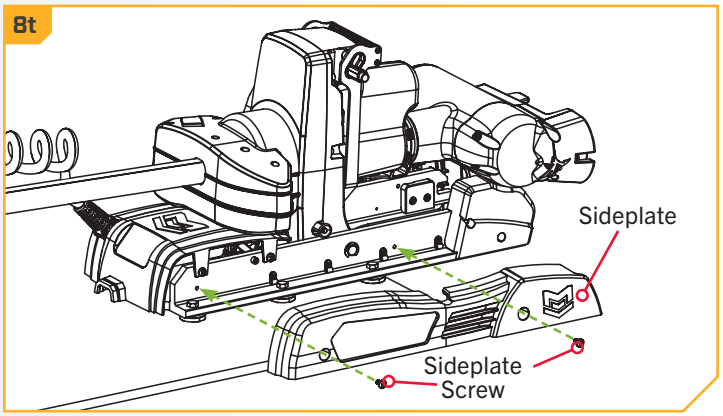


8

t. Replace the Right Sideplate and Left Sideplate. Replace the four Sideplate Screws using a #3 Phillips Screwdriver. Two of these screws will be located on each side of the mount.

NOTICE: When reinstalling the Sideplates, use care to avoid pinching the sensor wires that run alongside the Base Extrusion.

NOTICE: Ensure that the area between the Mount and Steering Housing is clean and free of debris and that no installation hardware has fallen in. The Mount contains a Stow Pad that contacts the Steering Housing when stowed. The motor cannot stow securely if an obstruction is present on the Stow Pad.



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INSTALLING THE FOOT PEDAL PADS

NOTICE: Minn Kota recommends installing the Foot Pedal Pads when installation is on any non-carpeted surface. The Foot Pedal Pads are optional on carpeted surfaces.

1

ITEM(S) NEEDED


#C x 1


#13 x 4

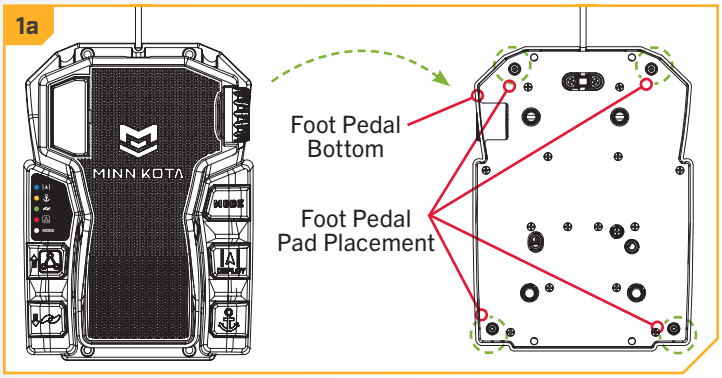

#14 x 4

a. Take the Foot Pedal (Item #C) and turn it over. Identify the location to install the Foot Pedal Pads.

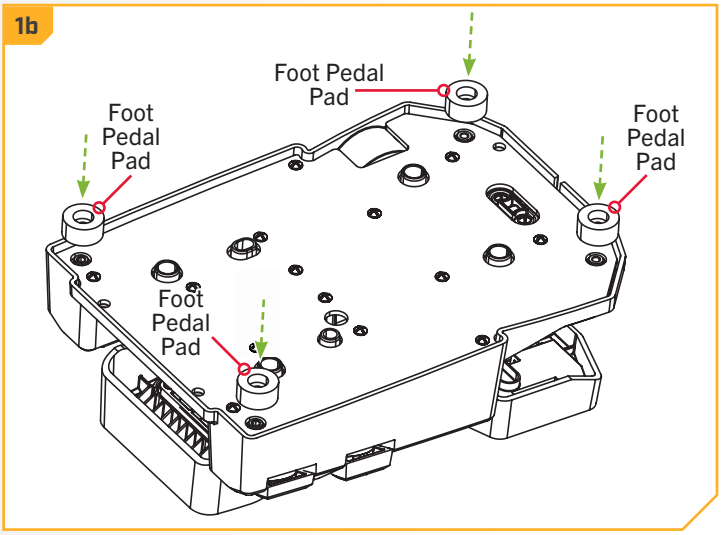
b. Take four Pads and place one Foot Pedal Pad (Item #13) in each of the four Foot Pedal Pad locations. Position the Foot Pedal Pads so that the flat surface of the Pad sits against the base of the Foot Pedal and the recess on the Pads face away from the Foot Pedal.

c. Insert a #12-16 X 3/4 Screw (Item #14) through the center of each Foot Pedal Pad. Tighten each Screw to secure the Foot Pedal Pad to the bottom of the Foot Pedal using a #3 Phillips Screwdriver. Hand-tighten all four Screws.

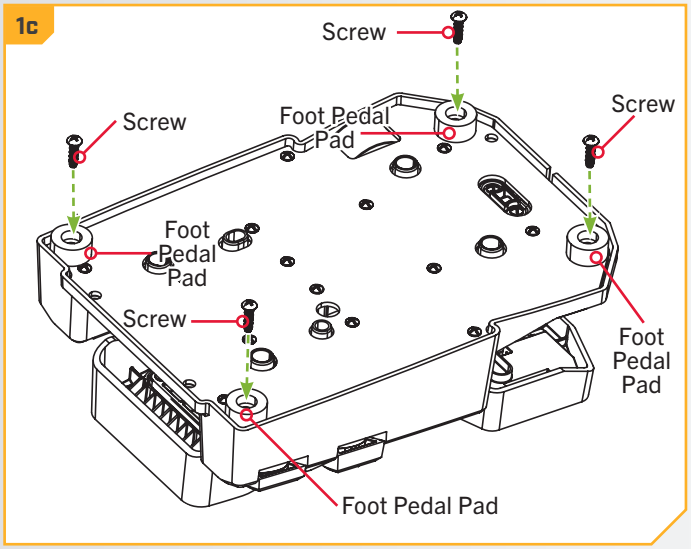
1a



1b



1c



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CONNECTING THE FOOT PEDAL FOUR-PIN POWER CORD TO THE TROLLING MOTOR

If the Power Cord from the Instant Response Foot Pedal is not long enough to reach the trolling motor, a 15-foot Instant Response Foot Pedal Extension Cable (1866087) is available at minnkota.johnsonoutdoors.com.

1

⚠ WARNING

Ensure that the trolling motor is powered off before connecting the Foot Pedal to the trolling motor.

a. Locate the Power Cables at the base of the Trolling Motor. Ensure the Power Cables are disconnected from a power source or that the battery breaker, if equipped, is “off.”

b. Locate the Foot Pedal Power Cord that exits the trolling motor mount next to the Power Cables. Unscrew the Cap on the Plug at the end of the Foot Pedal Power Cord.

c. Locate the Four-pin Plug from the Foot Pedal and unscrew the Cap.

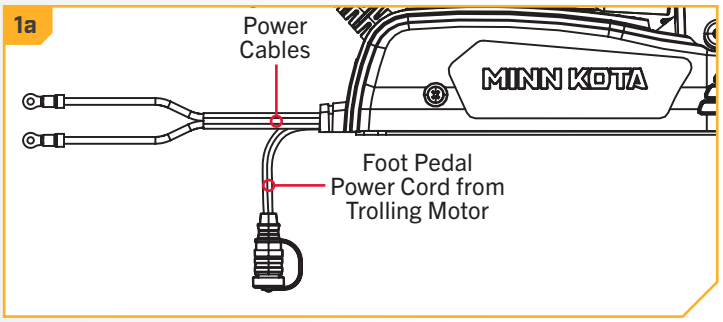
d. Align the Four-Pin Plug from the Foot Pedal with the Plug from the trolling motor. Firmly push the Plugs together. Secure the connection by rotating the Foot Pedal Power Cord collar clockwise. Ensure the Plug collars are tightly secured.

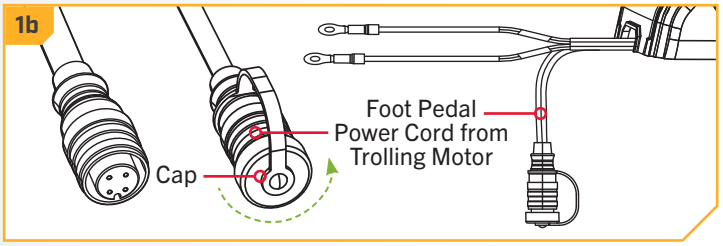
NOTICE: The connectors are keyed to prevent reversed installation.

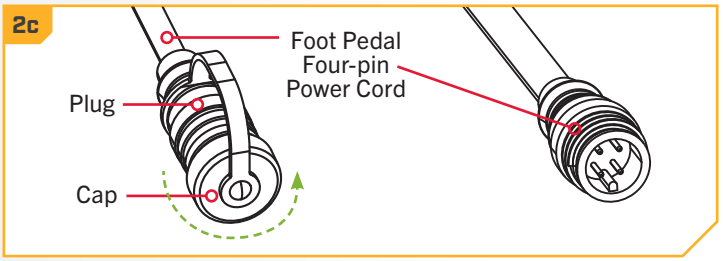
NOTICE: Ensure the Cap is on and firmly secured when the Foot Pedal Power Cord is disconnected.

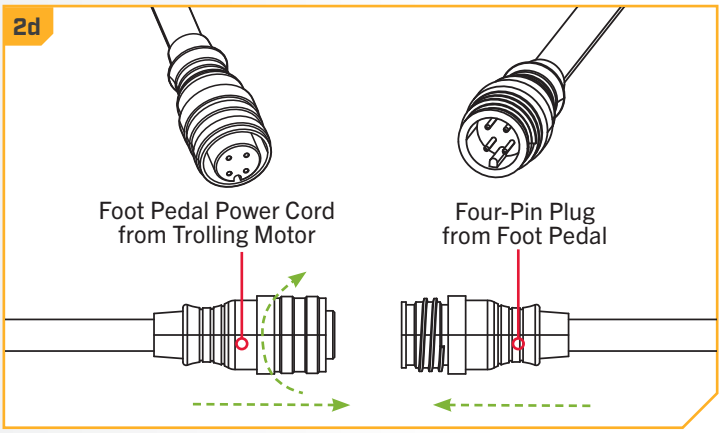
⚠ WARNING

Keep the Caps on the Foot Pedal Power Cord and Four-pin Plug secure when disconnected. Water in the electrical connections may cause an electrical short. Secure connections and Caps ensure a watertight seal, keep the plugs clean and dry, and prevent pins from getting bent. Avoid water ingress by keeping Caps and connections firmly in place. When installing the Foot Pedal to the motor, ensure the motor is off and be aware of the surroundings when turning the motor on.









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INSTALLING THE PROP

1

ITEM(S) NEEDED



#9 x 1 **#10 x 1** **#11 x 1** **#12 x 1**

⚠ CAUTION

Disconnect the motor from the battery before beginning any Prop work or maintenance.

a. Take the Drive Pin (Item #12) and slide it through the Hole in the Armature Shaft. Position the Drive Pin horizontally by grasping the Armature Shaft and rotating it with the Drive Pin in place.

b. Align the Prop (Item #9) so it is horizontal and parallel with the Drive Pin. Slide the Prop onto the Armature Shaft and Drive Pin until it is seated against the lower unit.

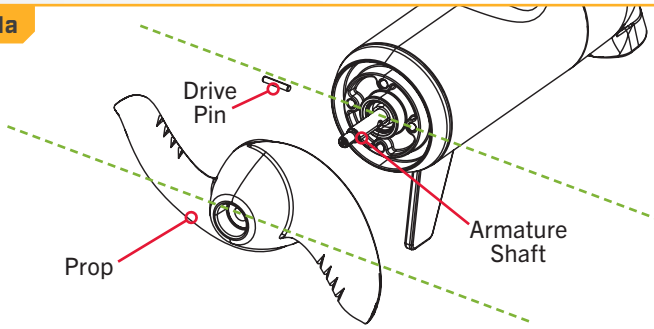
c. Install the Prop Washer (Item #10) and the Prop Nut (Item #11) onto the end of the Armature Shaft.

d. While holding the Prop horizontal, tighten the Prop Nut with a 9/16" Deep Well Socket. Tighten the Prop Nut to 25-35 in-lb.

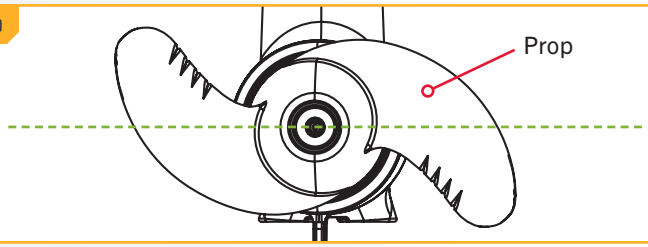
⚠ CAUTION

Do not over-tighten as this can damage the Prop.

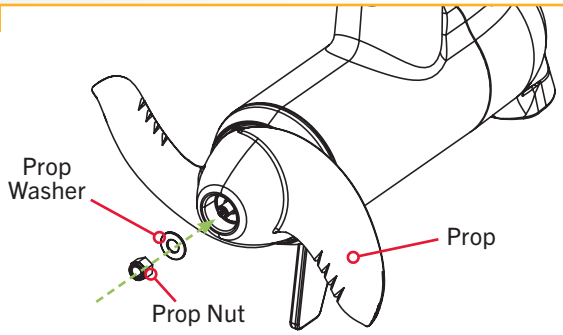
1a



1b



1c



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BATTERY & WIRING INSTALLATION

BOAT RIGGING & PRODUCT INSTALLATION

For safety and compliance reasons, we recommend that you follow American Boat and Yacht Council (ABYC) standards when rigging your boat. Altering boat wiring should be completed by a qualified marine technician. The following specifications are for general guidelines only:

⚠ CAUTION

These guidelines apply to general rigging to support your Minn Kota motor. Powering multiple motors or additional electrical devices from the same power circuit may impact the recommended conductor gauge and circuit breaker size. If you are using wire longer than that provided with your unit, follow the conductor gauge and circuit breaker sizing table below. If your wire extension length is more than 25 feet, we recommend that you contact a qualified marine technician.

⚠ CAUTION

An over-current protection device (circuit breaker or fuse) must be used. Coast Guard requirements dictate that each ungrounded current-carrying conductor must be protected by a manually reset, trip-free circuit breaker or fuse. The type (voltage and current rating) of the fuse or circuit breaker must be sized accordingly to the trolling motor used. The table below gives recommended guidelines for circuit breaker sizing.

CONDUCTOR GAUGE AND CIRCUIT BREAKER SIZING TABLE

This conductor and circuit breaker sizing table is only valid for the following assumptions:

1. No more than 2 conductors are bundled together inside of a sheath or conduit outside of engine spaces.
2. Each conductor has 105° C temp rated insulation.
3. No more than 3% voltage drop allowed at full motor power based on published product power requirements.

Motor Thrust / Model	Max Amp Draw	Circuit Breaker		Wire Extension Length				
		Amps	Minimum	5 feet	10 feet	15 feet	20 feet	25 feet
QUEST 24V	60	60 Amp	24 VDC	6 AWG	6 AWG	4 AWG	4 AWG	2 AWG
QUEST 36V	60	60 Amp	36 VDC	6 AWG	6 AWG	6 AWG	6 AWG	4 AWG

NOTICE: Wire Extension Length refers to the distance from the batteries to the trolling motor leads. Consult website for available thrust options.

Reference

United States Code of Federal Regulations: 33 CFR 183 – Boats and Associated Equipment ABYC E-11: AC and DC Electrical Systems on Boats

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SELECTING THE CORRECT BATTERIES

The QUEST series trolling motors are compatible with deep-cycle marine batteries operating at 12, 24, or 36 volts. They are optimized for use with $LiFePO_4$ lithium-ion battery cells, which maintain higher voltages over extended periods compared to lead-acid batteries, thereby enhancing trolling motor performance.

To ensure safety and compliance, it's essential to adhere to the relevant marine regulations and standards for battery choices in different regions:

UNITED STATES - Use only batteries that meet U.S. Coast Guard regulations and applicable American Boat and Yacht Council (ABYC) standards. ABYC's E-13 standard for lithium-ion batteries ensures safety and reliability in marine environments.

CANADA - Comply with Transport Canada's Transportation of Dangerous Goods (TDG) Regulations, which govern the safe handling, packaging, labeling, and transportation of batteries, particularly lithium batteries classified as dangerous goods. Marine safety guidelines provided by Transport Canada further ensure environmental protection and operational safety when using batteries on vessels.

EUROPE - Follow the European Union's Batteries Regulation, which promotes sustainability, performance, and safety throughout a battery's life cycle.

AUSTRALIA - Comply with the Australian Maritime Safety Authority (AMSA) regulations and standards, which emphasize maritime safety and environmental protection.

NEW ZEALAND - Align with Maritime New Zealand's standards, which provide guidance on the safe use of lithium-ion batteries on vessels.

Always consult local and/or in-country marine regulations and standards when selecting and installing batteries for your trolling motor to ensure compliance and optimal performance.

QUEST series trolling motors may also be powered with lead-acid (flooded, AGM, or GEL) deep-cycle marine 12-volt battery/batteries. For best results Minn Kota recommends using a deep-cycle marine battery with rating outlined in the "Deep Cycle Amp-Hour Rating" table. Maintain lead-acid batteries at full charge. Proper care will ensure battery power when needed and significantly improve battery life. Failure to recharge lead-acid batteries (within 12-24 hours) is the leading cause of premature battery failure. Use a multi-stage charger to avoid overcharging. When using Lithium Ion batteries, manufacturers may recommend storing in a semi-charged state and charging fully prior to use.

Deep Cycle Amp-Hour Rating			
Run Time	**Voltage**	**Group Size**	**Amp-Hour**
GOOD	12	24	70-85
BETTER	12	27	85-110
BEST	12	31	95-125

If using a crank battery to start a gasoline outboard, Minn Kota recommends using a separate battery/batteries for your Minn Kota trolling motor. Always check with the battery manufacturer for specific maintenance, care and storage instructions. Minn Kota also offers a wide selection of chargers to fit your charging needs. For more information on battery selection, rigging, and chargers, please visit minnkota.johnsonoutdoors.com.

⚠ WARNING

Never connect the (+) and the (–) terminals of the same battery together. Take care that no metal object can fall onto the battery and short the terminals. This would immediately lead to a short and extreme fire danger.

⚠ CAUTION

Refer to "Conductor Gauge and Circuit Breaker Sizing Table" in the previous section to find the appropriate circuit breaker or fuse for your motor. For motors requiring a 60-amp breaker, the Minn Kota MKR-27 60-amp circuit breaker (1865115) is recommended.

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⚠ CAUTION

Please read the following information before connecting your motor to your batteries in order to avoid damaging your motor and/or voiding your warranty.

ADDITIONAL CONSIDERATIONS

Using DC or Alternator Chargers

Your Minn Kota trolling motor may be designed with an internal bonding wire to reduce sonar interference. Most alternator charging systems do not account for this bonding wire, and connect the negative posts of the trolling motor batteries to the negative posts of the crank/starting battery. These external connections can damage connected electronics and the electrical system of your trolling motor, voiding your warranty. Review your charger's manual carefully or consult the manufacturer prior to use to ensure your charger is compatible.

Minn Kota recommends using Minn Kota brand chargers to recharge the batteries connected to your Minn Kota trolling motor, as they have been engineered to work with motors that include a bonding wire. Learn more about Minn Kota chargers online at minnkota.johnsonoutdoors.com.

Additional Accessories Connected to Trolling Motor Batteries

Significant damage to your Minn Kota motor, your boat electronics, and your boat can occur if incorrect connections are made between your trolling motor batteries and other battery systems. Minn Kota recommends using an exclusive battery system for your trolling motor. Where possible, accessories should be connected to a separate battery system. Radios and sonar units should not be connected to any trolling motor battery systems as interference from the trolling motor is unavoidable. If connecting any additional accessories to any trolling motor battery system, or making connections between the trolling motor batteries and other battery systems on the boat, be sure to carefully observe the information below.

The negative (-) connection must be connected to the negative terminal of the same battery that the trolling motor negative lead connects to. In the diagrams below this battery is labeled "Low Side" Battery. Connecting to any other trolling motor battery will input positive voltage into the "ground" of that accessory, which can cause excess corrosion. Any damage caused by incorrect connections between battery systems will not be covered under warranty.

Automatic Jump Start Systems and Selector Switches

Automatic jump start systems and selector switches tie the negatives of the connected batteries together. Connecting these systems to the "High Side" Battery or "Middle" Battery in the diagrams below and will cause significant damage to your trolling motor and electronics. The only trolling motor battery that is safe to connect to one of these systems is the "Low Side" Battery.

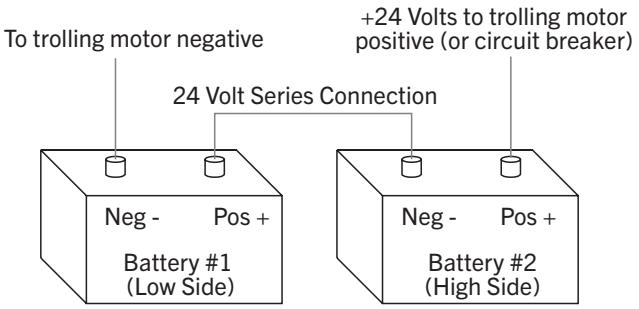
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CONNECTING THE BATTERIES IN SERIES (IF REQUIRED FOR YOUR MOTOR)

24-Volt Systems

Two 12-volt batteries are required. The batteries must be wired in series, only as directed in the wiring diagram, to provide 24 volts.

1. Make sure that the motor is switched off (speed selector on “0”).
2. Connect a connector cable to the positive (+) terminal of battery 1 and to the negative (–) terminal of battery 2.
3. Connect positive (+) red motor lead to positive (+) terminal on battery 2.
4. Connect negative (–) black motor lead to negative (–) terminal of battery 1.



Two 12-volt batteries connected in series for 24 volts

⚠ WARNING

For safety reasons do not switch the motor on until the propeller is in the water. If installing a leadwire plug, observe proper polarity and follow instructions in your boat owner’s manual.

⚠ WARNING

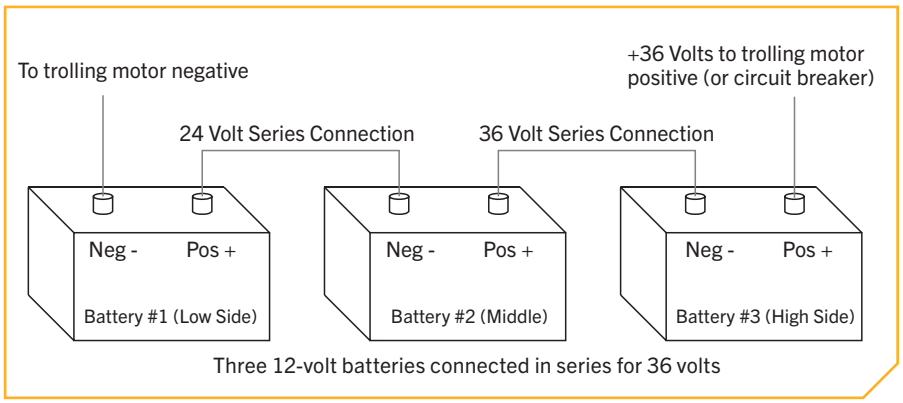
- For safety reasons, disconnect the motor from the battery or batteries when the motor is not in use or while the battery/batteries are being charged.
- Improper wiring of 24/36 volt systems could cause battery explosion.
- Keep leadwire wing nut connections tight and solid to battery terminals.
- Locate battery in a ventilated compartment.

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36-Volt Systems

Three 12-volt batteries are required. The batteries must be wired in series, only as directed in the wiring diagram, to provide 36 volts.

1. Make sure that the motor is switched off (speed selector on “0”).
2. Connect a connector cable to the positive (+) terminal of battery 1 and to the negative (–) terminal of battery 2 and another connector cable from the positive (+) terminal of battery 2 to the negative (–) terminal of battery of battery 3.
3. Connect positive (+) red motor lead to positive (+) terminal on battery 3.
4. Connect negative (–) black motor lead to negative (–) terminal of battery 1.



Three 12-volt batteries connected in series for 36 volts

⚠ WARNING

For safety reasons, do not switch the motor on until the propeller is in the water. If installing a leadwire plug, observe proper polarity and follow instructions in your boat owner’s manual.

⚠ WARNING

- For safety reasons, disconnect the motor from the battery or batteries when the motor is not in use or while the battery/batteries are being charged.
- Improper wiring of 24/36 volt systems could cause battery explosion.
- Keep leadwire wing nut connections tight and solid to battery terminals.
- Locate battery in a ventilated compartment.

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COMPLETING THE INSTALLATION

COMPLETING THE ULTERRA QUEST INSTALLATION

The Ulterra QUEST is an advanced trolling motor. To maximize its performance, mechanical and electrical systems should be set and calibrated to fit every user's installation. This portion of the installation will cover how to verify power, powering on the Wireless Remote, and more. The installation will conclude with connecting accessory cables and setting motor preferences for ease of use. Minn Kota recommends connecting the trolling motor to the Minn Kota Fishing App to assist in these steps. Find more information on the Minn Kota Fishing App online at minnkota.johnsonoutdoors.com.

COMPLETING THE INSTALLATION ›

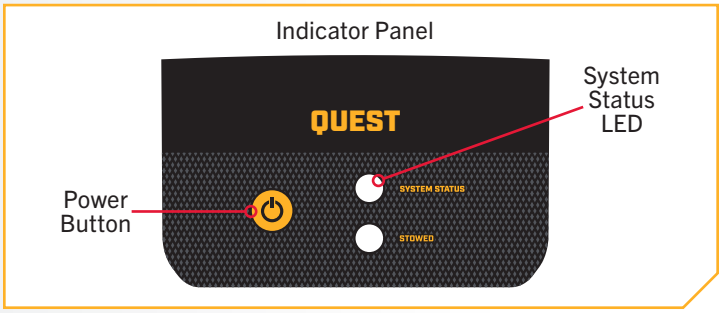
› Verifying Power

Each time the trolling motor is powered "on," the control board will auto-detect the power supplied from the battery system and adjust the thrust output based on a 24V or 36V battery system. To verify power to the trolling motor, connect the Ulterra QUEST to power. At specific points in the installation, power will be disconnected or turned “off” to ensure a safe environment for installation.

1

a. Locate the Indicator Panel at the front of the Mount. Power on the trolling motor by pressing the Power button on the Indicator Panel. When the trolling motor is on, the System Status LED will be blue.

b. To turn the motor "off," press and release the Power button. When the Motor is powered off, the System Status LED will not be illuminated.



NOTICE: In instances where the trolling motor is updating, the System Status LED will flash blue while the update is performed. Once the update is complete, the system will self-reboot and perform the normal start-up sequence. If a standard power-up sequence is not experienced, please see the Troubleshooting section of the Ulterra QUEST Owner’s Manual to identify errors. To learn more about software updates, please see the Owner’s Manual for the Advanced GPS Navigation Wireless Remote.

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Powering on the Wireless Remote

1

ITEM(S) NEEDED



#8 x 1



#7 x 1

a. Power on the trolling motor.

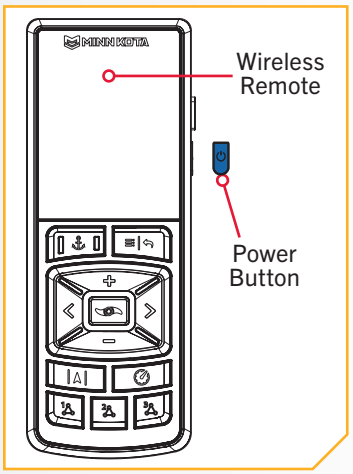
b. To turn on the Wireless Remote (Item #8), press and hold the Power button on the side of the Remote.

c. A message will appear on the display screen. Read the disclaimer, then press the Steer Right button to select "I Agree."

d. The content on the display screen will populate. Remote functions to manually control the motor are now active, including Speed Up, Speed Down, Steer Left, Steer Right, and Prop On/Off.

e. When the Advanced GPS Navigation system has obtained a minimum GPS signal strength of one bar, all remaining functions will become available.

NOTICE: Attaching the Lanyard (Item #7) to the Wireless Remote is optional.





NOTICE: The Wireless Remote comes from the factory paired to the Ulterra QUEST.

NOTICE: A Remote Cradle accessory (1866675) can be purchased for mounting the Wireless Remote or attaching the Remote to a belt clip.

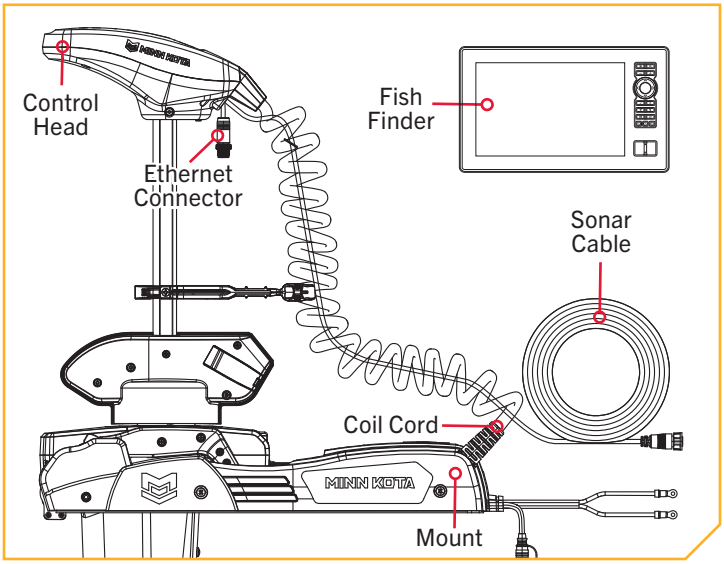
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SONAR AND ETHERNET CONNECTION

The trolling motor has sonar, either Dual Spectrum™ CHIRP or Side Imaging®. A Sonar Cable exits the base of the Control Head and runs down the center of the Coil Cord. A Fourteen-pin Connector on the end of the Sonar Cable attaches to a Minn Kota® fish finder with Humminbird® Imaging. Motors with Dual Spectrum CHIRP or Side Imaging also have a transducer in the Lower Unit. The appearance of the transducer varies based on the sonar type. Connect the Sonar Cable to a fish finder. Visit minnkota.johnsonoutdoors.com for more details about the sonar features and additional options for fish finder compatibility, adapter cables, and cable routing.

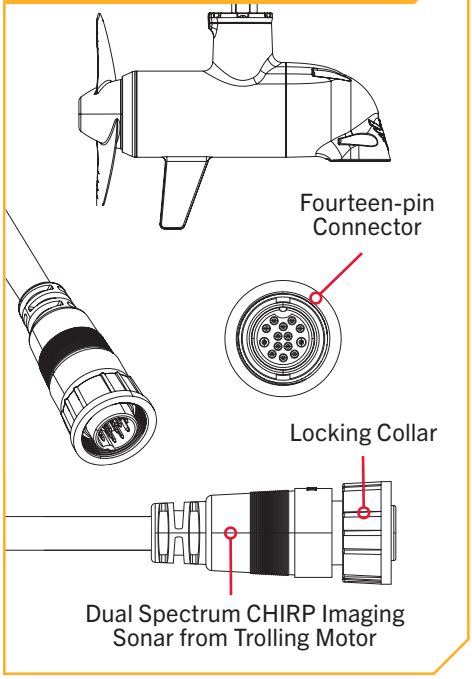
The trolling motor connectse exclusively to a Minn Kota fish finder via a wireless connection. For more details on establishing a wireless connection, please see the "Pair the Trolling Motor to a Fish Finder" section of this document. If a wired connection is preferred, the Ulterra QUEST uses the optional MKR-95 - 30' Braided Ethernet Cable (1854095). The optional cable is available online at minnkota.johnsonoutdoors.com. View more details on optional Ethernet cables, adapter cables, and fish finder compatibility online.

HUMMINBIRD® IMAGING

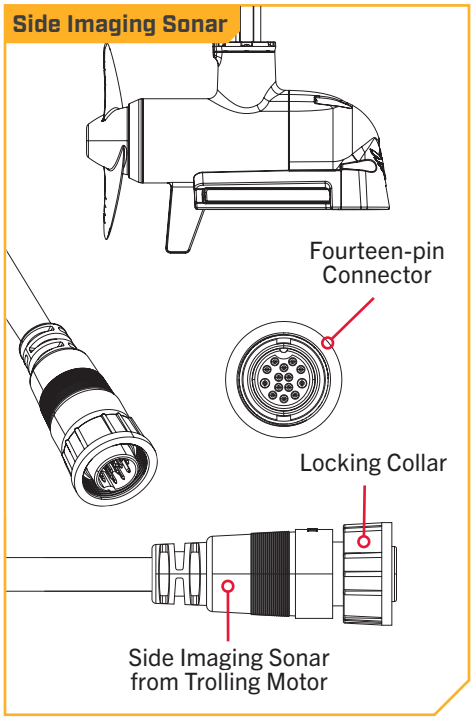


NOTICE: When pairing multiple devices wirelessly with the trolling motor, Minn Kota Fishing App, Raptor or Talon shallow water anchors, multiple Minn Kota Remotes, and Minn Kota or Humminbird fish finders, Minn Kota recommends a wired Ethernet Cable between the trolling motor and fish finder for optimal performance.

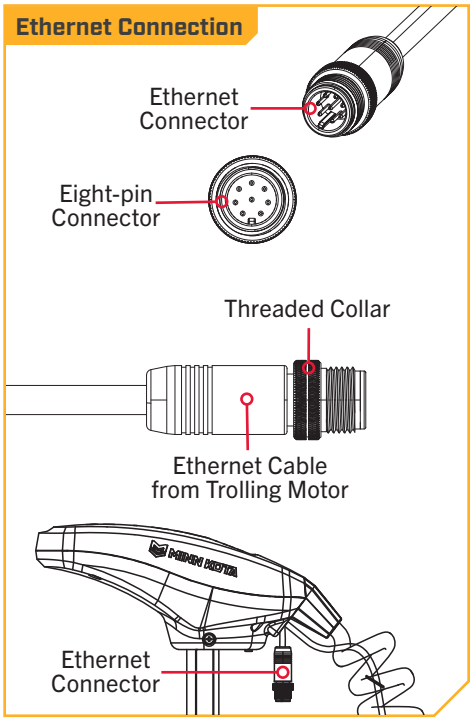
Dual Spectrum CHIRP Imaging Sonar



Side Imaging Sonar



Ethernet Connection

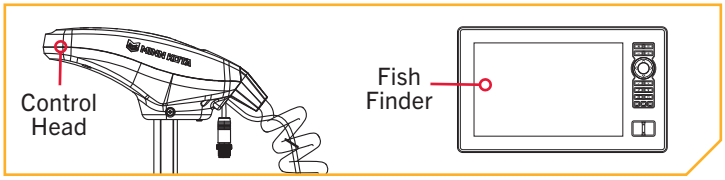


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Pair the Trolling Motor to a Fish Finder

The trolling motor connects to a Minn Kota® fish finder via a wireless connection. Complete the prop installation and the battery and cabling installation, then pair the trolling motor to the fish finder. The trolling motor and fish finder must be powered on to complete the pairing process. The following Minn Kota fish finder models are compatible with a wireless connection to the trolling motor:

- SOLIX® G3
- APEX™
- XPLORE™
- A Series™
- X Series™

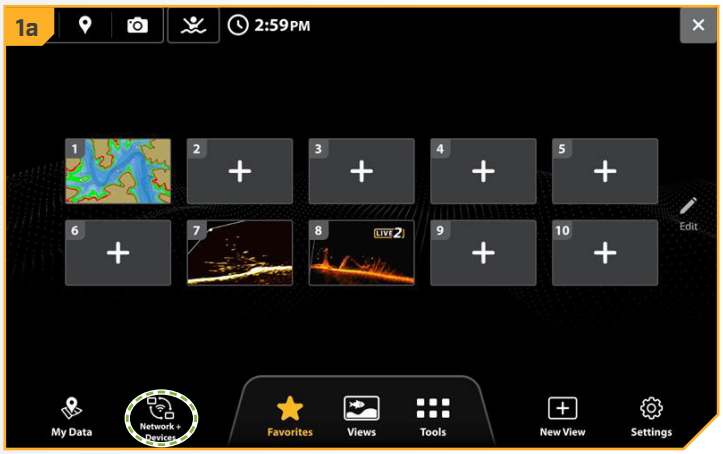


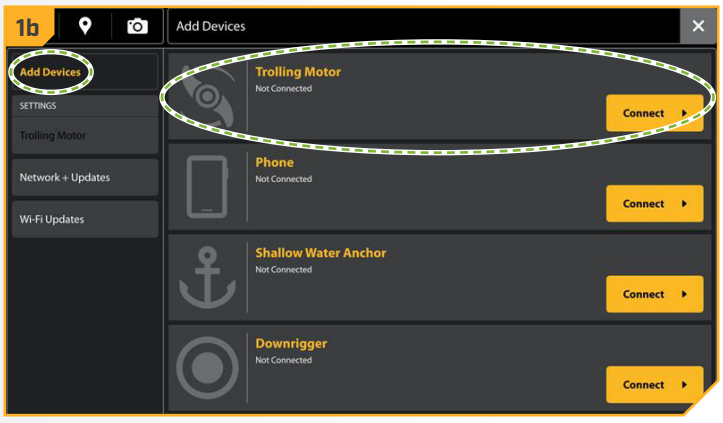
Additional fish finders are compatible with a wired connection using the MKR-95 - 30' Braided Ethernet Cable (1854095). The optional cable and more information on compatibility and adapter cables is available online at minnkota.johnsonoutdoors.com. Fish finders with a wireless connection do not need an Ethernet cable. To pair the trolling motor with the fish finder, follow the instructions below.

1

a. Power on the fish finder and the trolling motor. From the fish finder home screen, select "Network & Devices".

b. Select "Add Devices" and locate "Trolling Motor". In the Trolling Motor section, select "Connect".





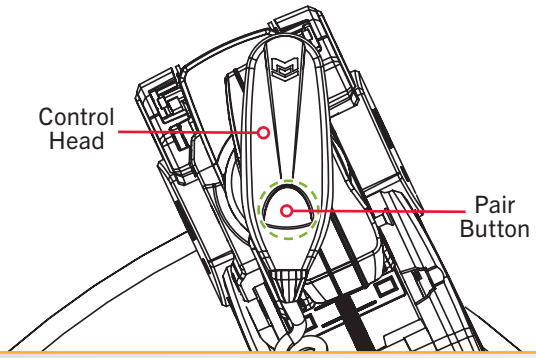
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PAIR THE TROLLING MOTOR TO A FISH FINDER

2

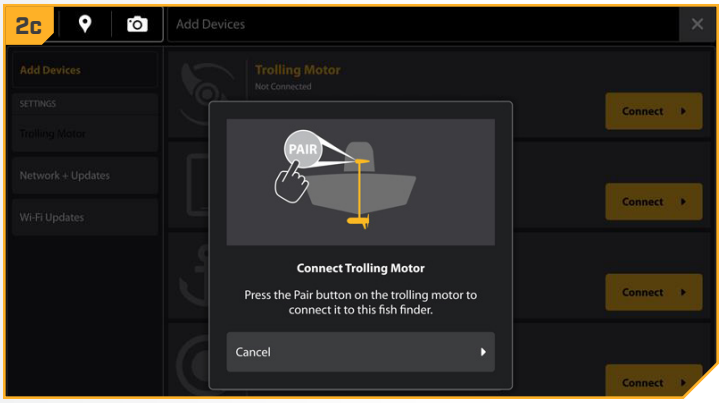
c. Press and hold the Pair button on the trolling motor Control Head.

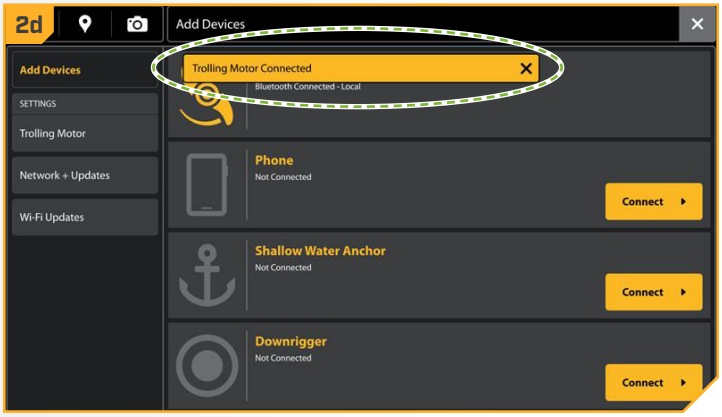
2c



NOTICE: For more details on the behavior of the Pair button, please see the Wireless Remote Owner's Manual.

d. When successfully paired, the trolling motor will emit three beeps, and is paired to the fish finder. The fish finder will display "Trolling Motor Connected."





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Installing a Wired Ethernet Connection

A wired ethernet connection is not needed if the trolling motor is paired to the Minn Kota fish finder. If a wired connection is preferred, the Riptide Instinct QUEST requires the use of the MKR-95 - 30' Braided Ethernet Cable (1854095) available online at minnkota.johnsonoutdoors.com. Follow the directions below to connect the Braided Ethernet Cable to the Eight-pin Ethernet Connector below the Control Head.

NOTICE: The fish finder should be turned off until this procedure is complete.

⚠ CAUTION

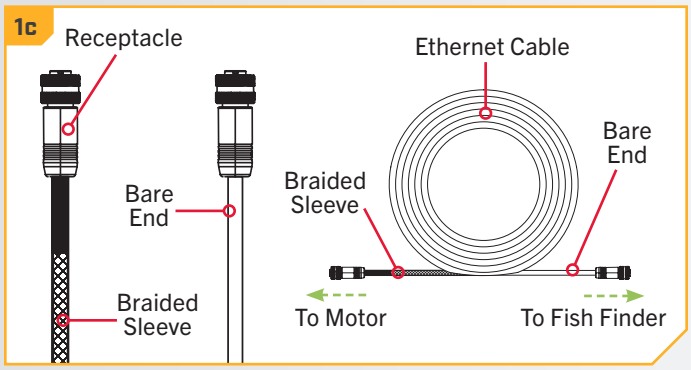
Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void the product warranty. Route cables away from pinch points or other areas that may cause them to bend in sharp angles. Routing the cables in any way other than directed may cause damage to the cables by being pinched or severed. Do not over-tighten the cable tie as it may damage the wire.

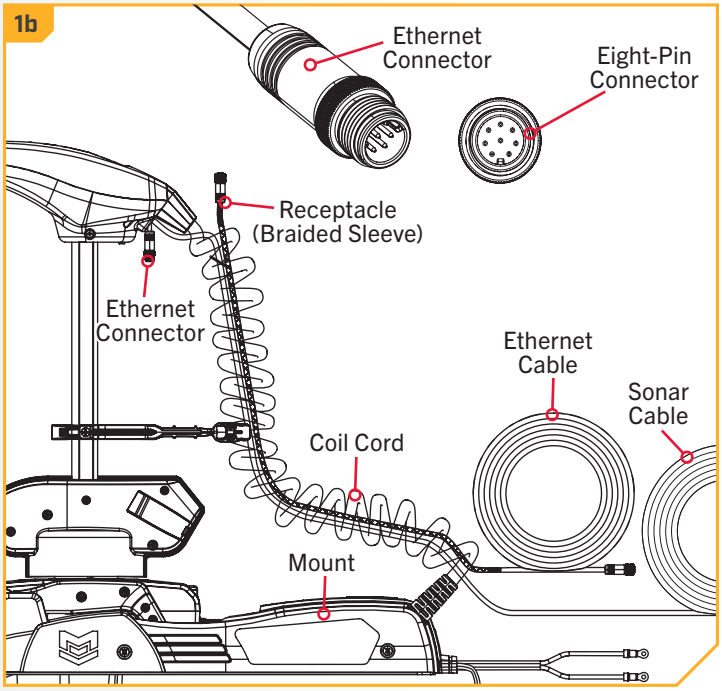
1

a. Place the motor in the deployed position.

b. Locate the Eight-pin Ethernet Connector below the Control Head. The Ethernet Connector exits the base of the Control Head and will rest just below the Control Head next to the Coil Cord.

c. The Ethernet Cable has a Receptacle on both ends. Starting at the Mount, route the Receptacle with the braided sleeve through the center of the Coil Cord to the Ethernet Connector, parallal to the Sonar Cable.





NOTICE: Ensure the correct Receptacle on the Ethernet Cable is routed through the Coil Cord and connected to the Ethernet Connector. The braided sleeve must be routed through the Coil Cord and connected. Do not connect the Receptacle on the bare end to the Ethernet Connector below the Contol Head. Failure to connect the correct Receptacle may result in damage to cables. Bypassing the Coil Cord when routing the Ethernet Cable is not recommended.

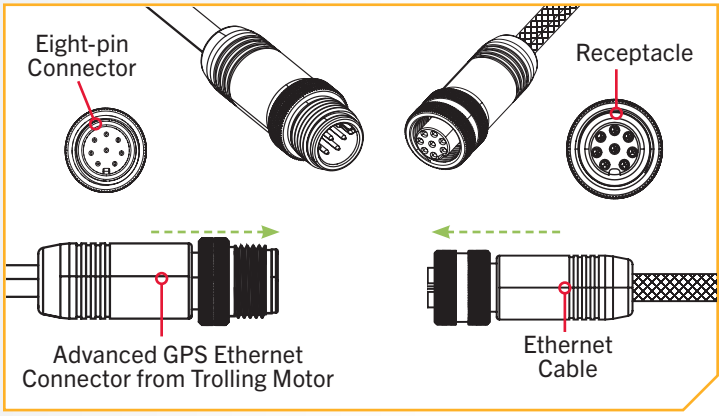
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INSTALLING A WIRED ETHERNET CONNECTION

2

d. The Ethernet Cable should float freely inside the Coil Cord. Allow enough slack in the cable to attach the Receptacle to the Advanced GPS Ethernet Connector.

e. To install the Ethernet Cable, align the pins on the Ethernet Connector with the Receptacle on the Ethernet Cable. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection.



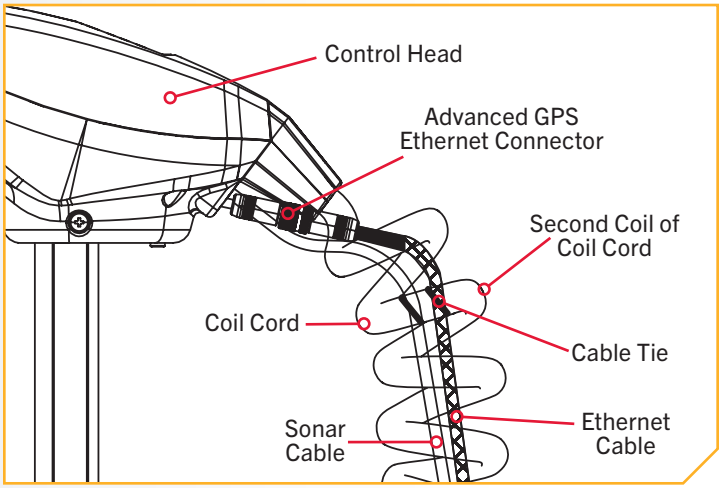
3

f. Use a Cable Tie and secure the Ethernet Cable to the second coil of the Coil Cord. Wrap the Cable Tie around both the Ethernet Cable and Coil Cord. Secure the Cable Tie until it is fingertip tight. Do not over-tighten as it may damage the Ethernet Cable.

NOTICE: The Ethernet Cable should be secured to the second coil of the Coil Cord. Securing the Ethernet Cable to any other coil may damage the Cables.

⚠ CAUTION

Do not over-tighten the Cable Tie as it may damage the wires.



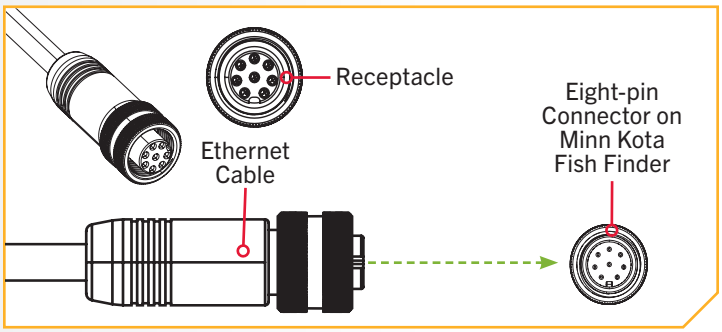
NOTICE: The Sonar Cable comes from the factory secured to the Coil Cord with a Cable Tie. Do not remove or adjust the Cable Tie retaining the Sonar Cable.

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4

g. The Receptacle on the bare end of the Ethernet Cable exits the Coil Cord and connects to the Fish Finder. Align the keyed connectors of the Receptacle on the Ethernet Cable with the Eight-pin Connector on the Minn Kota fish finder. Tighten the Collar from the Ethernet Cable to secure the connection.

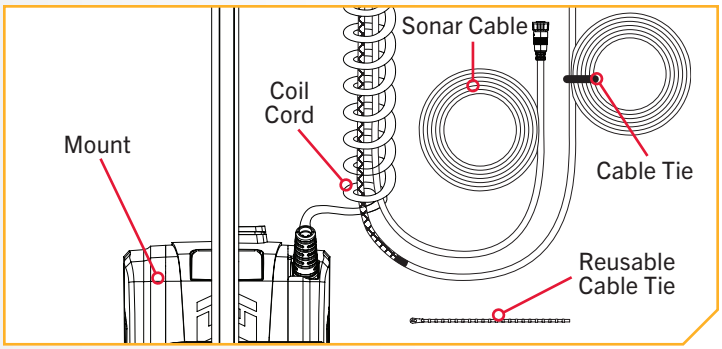
NOTICE: If the Braided Ethernet Cable is not long enough to reach the fish finder, use a 30' Ethernet Extension Cable (AS ECX 30E - 760025-1) from humminbird.johnsonoutdoors.com. The Ethernet Extension Cable plugs directly into any length of Ethernet Cable.



NOTICE: To make a wired ethernet connection between the trolling motor and a Humminbird® Helix fish finder, find the correct adapter cable by checking compatability online at minnkota.johnsonoutdoors.com.

5

h. Confirm that the Ethernet Cable is connected to the fish finder as desired. Leave 6" of slack where the Ethernet Cable exits the Coil Cord. Bundle any excess cable in a loose loop of no less than 4" in diameter. Secure loosely with a Cable Tie.



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Installing the Sonar Connection

When Dual Spectrum CHIRP or Side Imaging Sonar are pre-installed on your trolling motor, one Sonar Cable exits the base of the Control Head and runs down the center of the Coil Cord. Both types of sonar require the Sonar Cable to be connected to an output device such as a Minn Kota fish finder with Humminbird® Imaging. Connecting the trolling motor equipped with a transducer to a compatible fish finder provides a 2D sonar view of what is happening directly below the trolling motor. To learn more about Dual Spectrum CHIRP and Side Imaging Sonar, see the "Using & Adjusting the Motor" section of the Owner's Manual.

The following Minn Kota fish finder models allow for the connection of the Sonar Cable directly from the trolling motor:

- SOLIX® G3
- A Series™
- XPLORE™
- APEX™
- X Series™

The Sonar Cable from the trolling motor may be plugged directly into a fish finder, Extension Cable or Adapter Cable. Extension Cables and Adapter Cables are available online at minnkota.johnsonoutdoors.com. To determine if your fish finder is compatible with Dual Spectrum CHIRP or Side Imaging Sonar, please visit minnkota.johnsonoutdoors.com to check compatibility.

The Sonar Cables are shielded to minimize interference. To protect this shielding, the cables should not be pulled tight against sharp angles or hard objects. If using cable ties, do not over-tighten. Any excess cable should be bundled in a loose loop of no less than 4" in diameter. The connection cable should be routed to the fish finder following Minn Kota recommendations to optimize mobility and maximize functionality. All Ulterra QUEST motors with sonar are equipped with an internal bonding wire. Incorrect rigging will cause sonar interference and can damage your trolling motor, electronics, and other boat accessories. To minimize trolling motor interference, ensure that the fish finder and trolling motor are powered by separate batteries. Refer to the "Battery & Wiring Installation" section of this manual for correct rigging instructions.

⚠ CAUTION

Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void the product warranty. Route cables away from pinch points or other areas that may cause them to bend in sharp angles. Routing the cables in any way other than directed may cause damage to the cables by being pinched or severed. Do not over-tighten the cable tie as it may damage the wire.

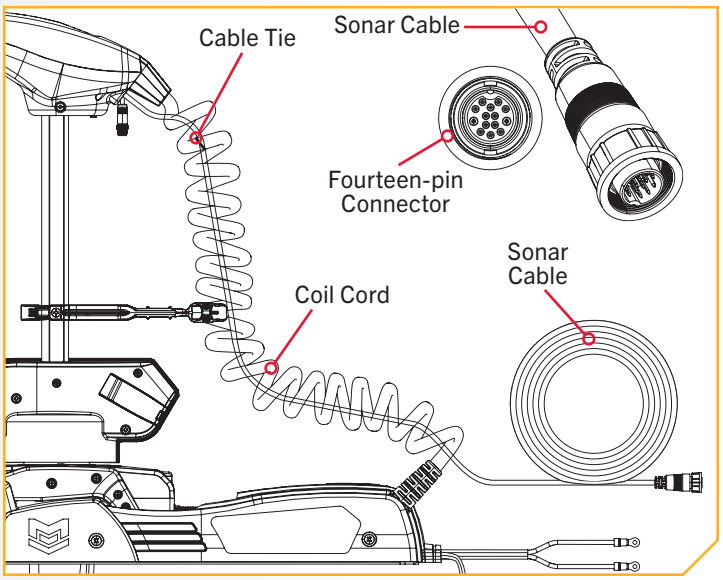
1

NOTICE: The fish finder should be turned off until this procedure is complete.

a. Place the motor in the deployed position.

b. Locate the Fourteen-pin Connector at the end of the Sonar Cable. The Sonar Cable exits the base of the Control Head and runs down the center of the Coil Cord.

NOTICE: The Sonar Cable comes from the factory secured to the Coil Cord with a Cable Tie. Do not remove or adjust the Cable Tie retaining the Sonar Cable.



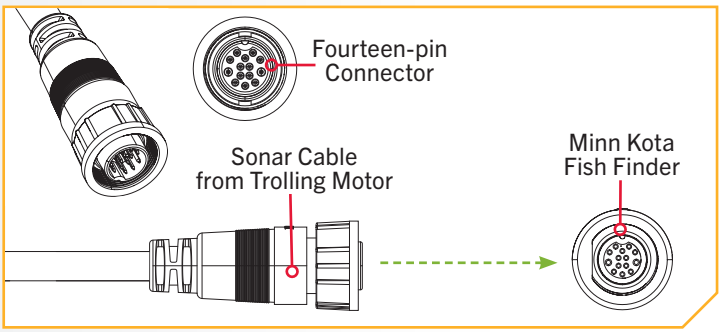
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2

c. The Sonar Cable floats freely inside the Coil Cord. Allow enough slack in the cable to attach the Fourteen-pin Connector to the fish finder.

d. Align the Fourteen-pin Connector on the Sonar Cable with the Receptacle on the Minn Kota fish finder. Tighten the Collar from the Sonar Cable to secure the connection.

NOTICE: If the Sonar Cable is not long enough to reach the fish finder, use a 10-foot Sonar Extension Cable (EC M3 14W10 - 720106-1) or a 30-foot Sonar Extension Cable (EC M3 14W30 - 720106-2). Both Extension Cables are available from humminbird.johnsonoutdoors.com. The Sonar Cable plugs directly into a Sonar Extension Cable.



NOTICE: To complete the Sonar connection between the trolling motor and a Humminbird® Helix fish finder, find the correct adapter cable by checking compatability online at minnkota.johnsonoutdoors.com.

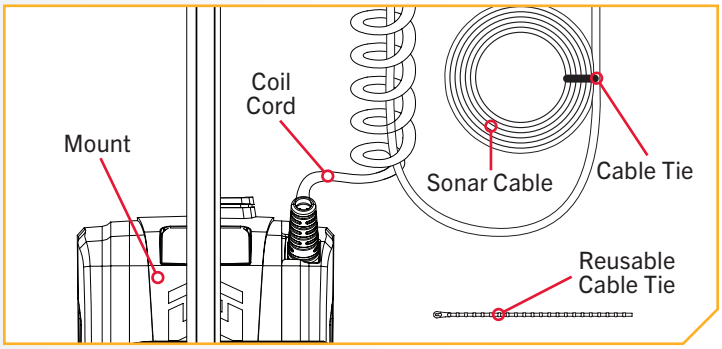
NOTICE: If connecting to other fish finders on the market, check for compatibility or any required adapter cables online at minnkota.johnsonoutdoors.com.

3

e. Confirm the Sonar Cable is connected to the fish finder as desired. Leave 6” of slack where the Sonar Cable exits the Coil Cord. Bundle any excess cable in a loose loop of no less than 4” in diameter. Secure loosely with a Cable Tie.

⚠ CAUTION

Do not over-tighten the Cable Tie as it may damage the wires.



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MINN KOTA SYSTEM

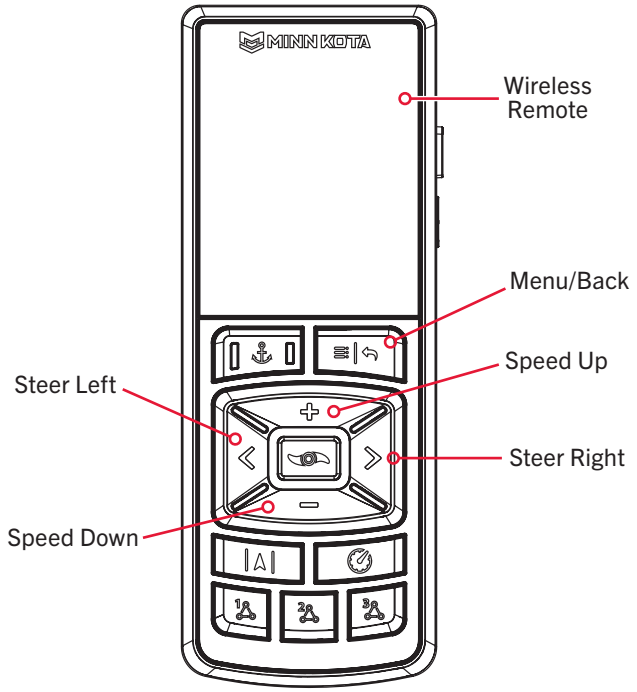
OPTIMIZING THE PERFORMANCE OF THE ULTERRA QUEST WITH THE WIRELESS REMOTE OR MINN KOTA FISHING APP

The Minn Kota System is an integrated fishing system that unites trolling motors, fish finders, sonar, mapping, shallow water anchors, and more into a single, seamless experience. Connecting the trolling motor to additional Minn Kota System products enhances the fishing experience and allows anglers to focus less on managing gear and more on fishing.

The Ulterra QUEST trolling motor features Advanced GPS Navigation and comes from the factory paired with a Wireless Remote. The Wireless Remote offers one way to control the trolling motor and Advanced GPS Navigation features such as Spot-Lock and Drift Mode. To learn more about Wireless Remote features, refer to the Wireless Remote Owner's Manual online at minnkota.johnsonoutdoors.com.

Pair the trolling motor to the Minn Kota Fishing App to provide more control over the Minn Kota System. The Minn Kota Fishing App is a free iOS and Android application you can download to a mobile device, providing unparalleled control over all of your Minn Kota System products. Find instructions to pair the trolling motor with a mobile device in the app.

Use the Wireless Remote or the Minn Kota Fishing App to finalize trolling motor settings for features such as Keel Offset and Stow Orientation. Ensure that the trolling motor is connected to a power source before adjusting settings. Minn Kota recommends completing all settings to enhance trolling motor control.





⚠ WARNING

Take care that neither you nor other persons approach the turning propeller too closely, neither with body parts nor with objects. The motor is powerful and may endanger or injure you or others. Stay clear of the Prop and watch out for accidental engagement.

NOTICE: If the Wireless Remote is lost or becomes non-functioning during navigation, and the Minn Kota Fishing App is unavailable, disconnect the motor from power to cancel all active navigation and turn off the Prop.

NOTICE: Ensure that the trolling motor is connected to a power source before adjusting Minn Kota Fishing App settings.

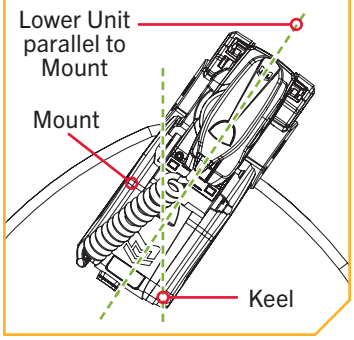
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KEEL OFFSET

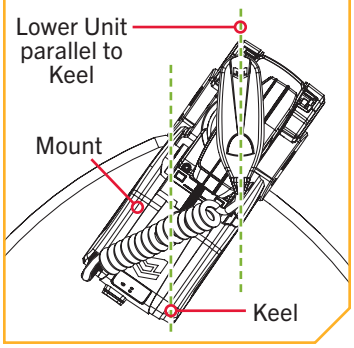
The Ulterra QUEST comes from the factory with the Lower Unit parallel to the Mount. When the Lower Unit is parallel to the Mount, the Keel Offset is zero. In an ideal installation, the Lower Unit will be parallel to the Keel; however, the Mount is rarely installed to be perfectly inline with the Keel, therefore the Lower Unit will not be parallel with the Keel. Nearly all installations will have some variation in mounting position to either the Port or Starboard side of the boat. The Keel Offset feature records the position of the Lower Unit when it is parallel to the Keel based on the Mount being offset from the Keel. Before adjusting the Keel Offset, complete all installation steps. This includes mounting the trolling motor to the boat and installing power and accessory cables. The Keel Offset can be recorded through the Wireless Remote or Minn Kota Fishing App.

NOTICE: When the motor is installed from the factory, the Keel Offset is 0 degrees. When adjusting the Keel Offset, any position towards Port will create a Keel Offset of a negative angle. Any position towards Starboard will create a positive angle.

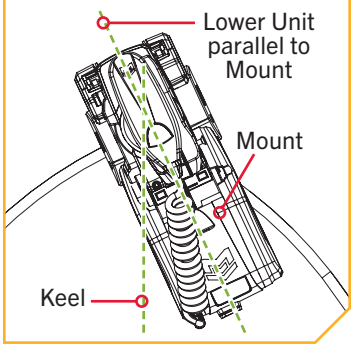
Port
Keel Offset Zero (0°)



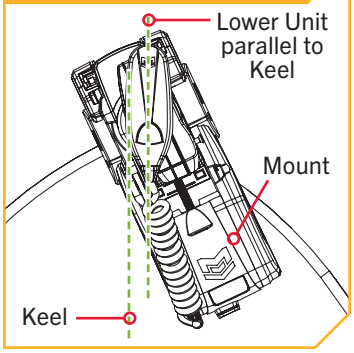
Port
Keel Offset (-X°) Correction



Starboard
Keel Offset Zero (0°)



Starboard
Keel Offset (+X°) Correction



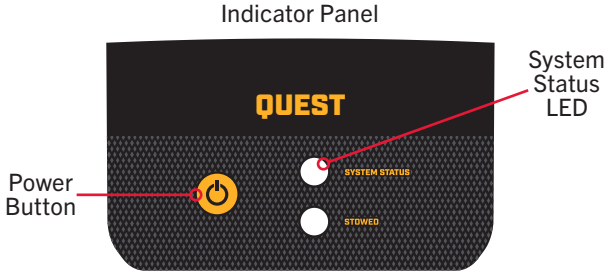
Setting the Keel Offset with the Wireless Remote

1

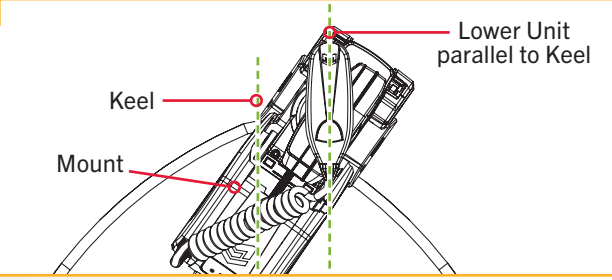
a. Power on the trolling motor by pressing the Power button on the Indicator Panel. When the trolling motor is on, the System Status LED will be blue.

b. With either the Wireless Remote, foot pedal, or Minn Kota Fishing App on a paired mobile device, steer the motor so that the control head and lower unit are parallel to the Keel.

1a



1b



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KEEL OFFSET

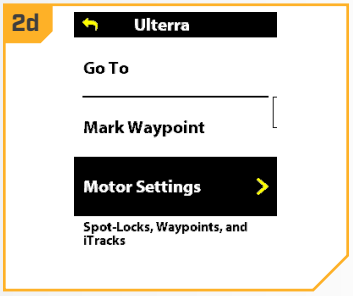
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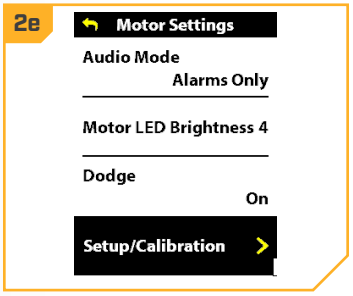
c. Press the Menu button on the Wireless Remote.

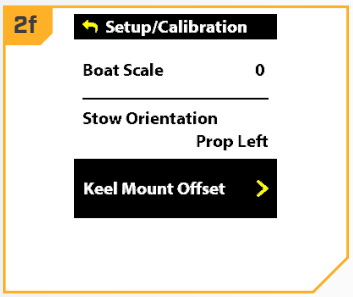
d. Use the Speed Up or Speed Down button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

e. In the Motor Settings Menu, use the Speed Up or Speed Down button to find Setup/Calibration.

f. In the Setup/Calibration menu, use the Speed Up or Speed Down button to find Keel Mount Offset. Use the Steer Right button to select Keel Mount Offset.





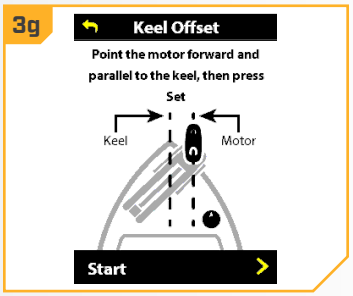


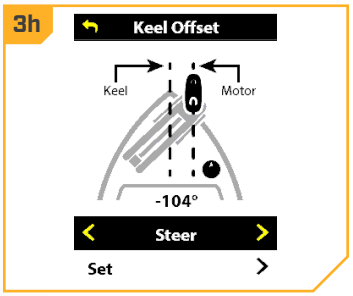
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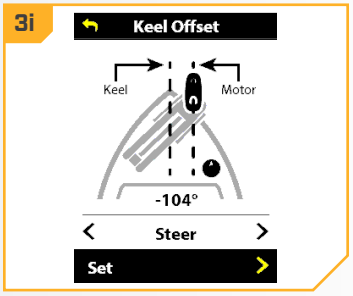
g. Review all safety warnings. Use the Steer Right button to select Start and begin the process.

h. Use the Steer Left or Steer Right button to point the motor forward and parallel to the keel.

i. When satisfied with the placement of the trolling motor, use the Speed Up or Speed Down button to scroll to Set. Use the Steer Right button to select Set. The degree of offset is displayed at the bottom of the Dashboard.







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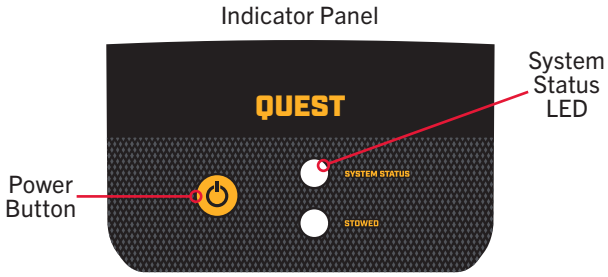
Setting the Keel Offset with the Minn Kota Fishing App

1

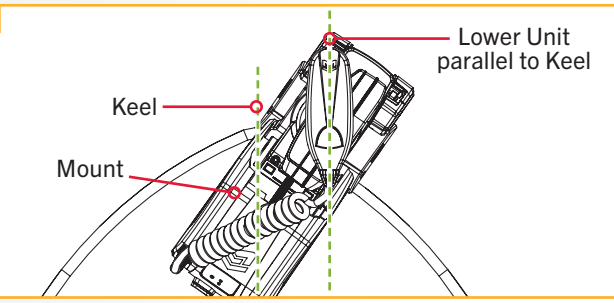
a. Power on the trolling motor by pressing the Power button on the Indicator Panel. When the trolling motor is on, the System Status LED will be blue.

b. With either the Wireless Remote, foot pedal, or the Minn Koat Fishing App on a paired mobile device, steer the motor so that the control head and lower unit are parallel to the Keel.

1a



1b



2

c. Open the Minn Kota Fishing App on the mobile device. Ensure the mobile device is paired with the trolling motor.

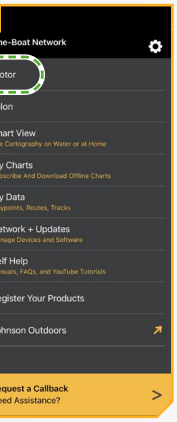
d. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

e. Before the Motor home screen will open, tap Agree on the on-screen prompt.

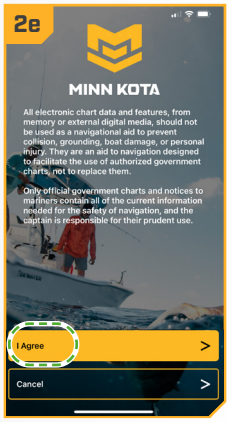
NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears.

f. On the Motor home screen, locate the Motor Settings button in the upper-right corner and tap it.

2d



2e



2f



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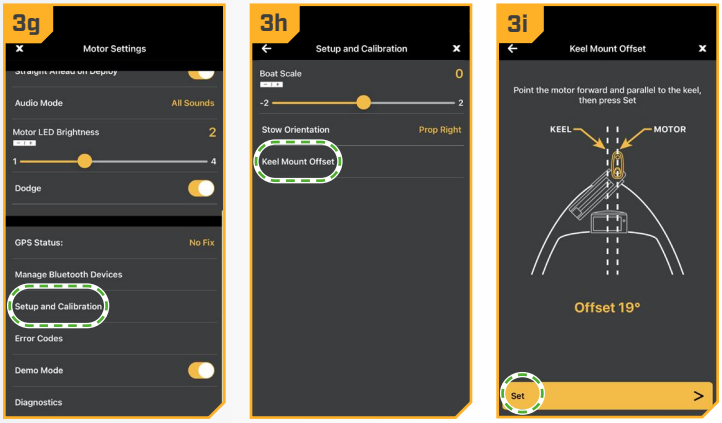
KEEL OFFSET

3

g. In the Motor Settings menu, find and tap Setup and Calibration.

h. In Setup and Calibration, find and tap Keel Mount Offset.

i. Review all safety warnings. Follow the prompts in the Minn Kota Fishing App. If the placement of the trolling motor is pointing forward and parallel to the keel, tap Set. The degree of offset will show at the bottom of the app Display.



4

j. If the trolling motor needs to be adjusted, locate the Return button on the upper-left corner of the app screen. Tap the Return button three times until the Motor home screen displays.

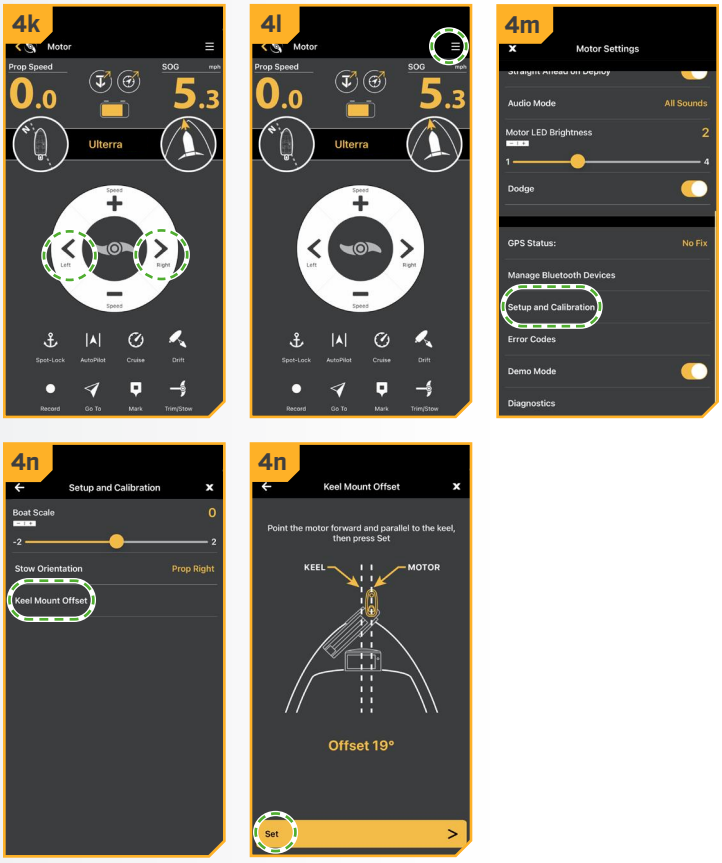
k. Use the Steer Right > and Steer Left < buttons to point the motor forward and parallel to the keel.

l. When satisfied with the placement of the trolling motor, locate the Motor Settings button in the upper-right corner and tap it.

m. In the Motor Settings menu, find and tap Setup and Calibration.

n. In Setup and Calibration, find and tap Keel Mount Offset. If the placement of the trolling motor is pointing forward and parallel to the keel, tap Set.

o. The degree of offset shows at the bottom of the app Display. Tap Return to close the Keel Mount Offset and return to the home screen.

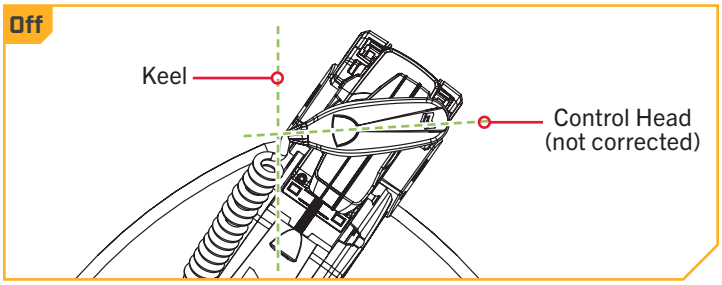


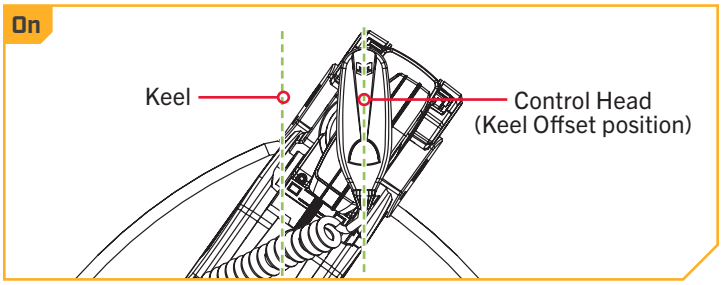
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STRAIGHT ON DEPLOY

Minn Kota recommends setting the Keel Offset when the position of the Lower Unit is parallel with the Keel. Save the Keel Offset before exploring the Straight on Deploy feature. Straight on Deploy uses the position recorded in Keel Offset to know where to position the Lower Unit to be parallel with the Keel.

When Straight on Deploy is engaged, the lower unit will automatically rotate to the Keel Offset position when deployed. By default, the Lower Unit will be parallel to the Keel when the Mount is parallel to the Keel. If the Keel Offset was programmed to another angle, the Straight on Deploy feature will correct the position to match the Keel Offset angle when turned “on.” If Straight on Deploy is turned “off,” the trolling motor will not correct the position in any direction.





To Toggle Straight on Deploy with the Wireless Remote

1

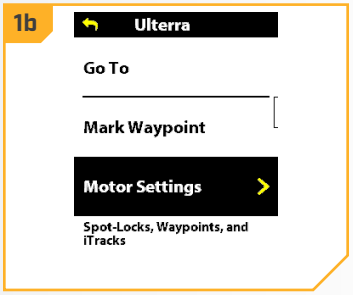
a. With the motor on, press the Menu button on the Wireless Remote.

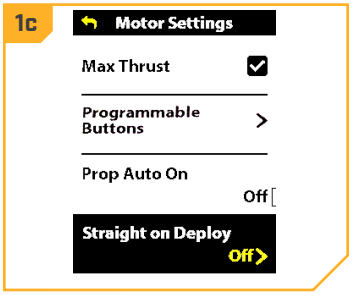
b. Use the Speed Up or Speed Down button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings Menu, use the Speed Up or Speed Down button to find Straight on Deploy.

d. By default, the Straight on Deploy is toggled "off."

e. Use the Steer Right button to toggle between "on" and "off."





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To Toggle Straight on Deploy with the Minn Kota Fishing App

1

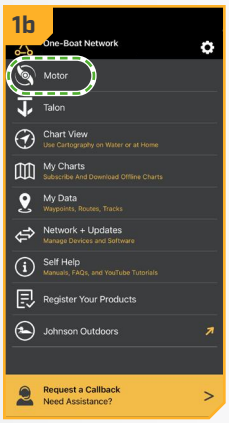
a. Open the Minn Kota Fishing App on a mobile device. Make sure the mobile device is paired with the trolling motor and that the motor is powered "on."

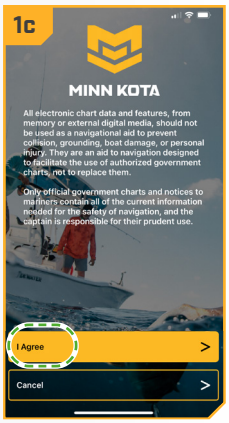
b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears.

d. On the Motor home screen, locate the Motor Settings button in the upper-right corner and tap it.

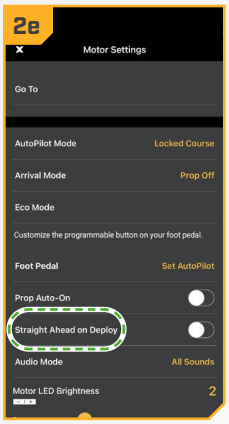


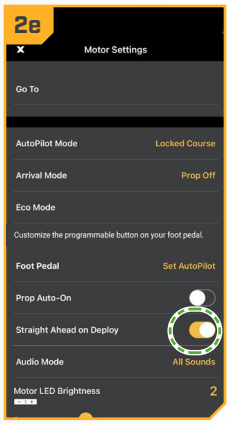




2

e. In the Motor Settings menu, find the Straight Ahead on Deploy toggle. Tap to turn the toggle "on" and "off." When highlighted yellow the toggle is "on."



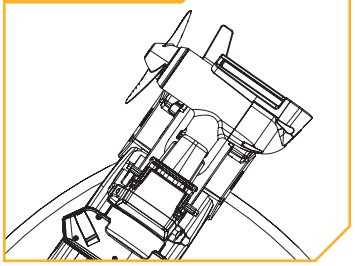


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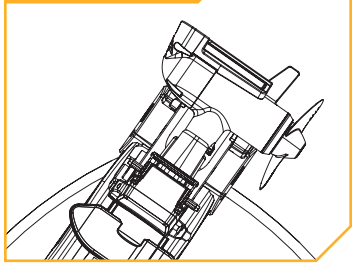
STOW ORIENTATION

The Stow Orientation is a term used to describe the lower unit and Prop position when the motor is stowed. The lower unit will automatically rotate into the Stow Orientation when stowing the motor. The Stow Orientation can be set to Prop Left or Prop Right through the Wireless Remote or Minn Kota Fishing App. The factory default setting for the lower unit is Prop Left. Adjusting the Stow Orientation allows the installation to be customized to fit boat positioning for either a Port or Starboard installation and to accommodate fishing or trailering applications.

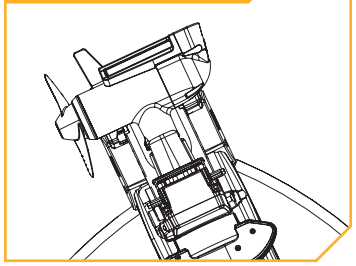
Prop Left (Port)



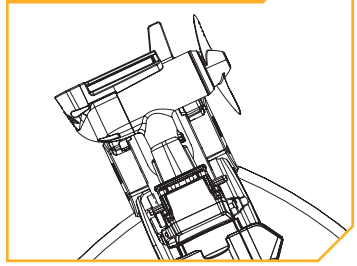
Prop Right (Port)



Prop Left (Starboard)



Prop Right (Starboard)



Setting the Stow Orientation with the Wireless Remote

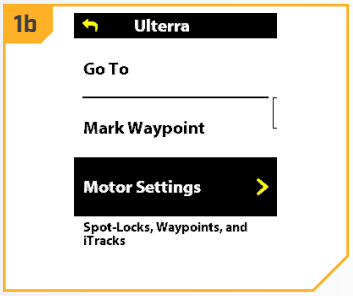
1

a. With the trolling motor powered on, press the Menu button on the Wireless Remote.

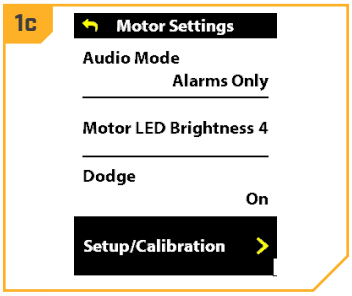
b. Use the Speed Up or Speed Down button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings Menu, use the Speed Up or Speed Down button to find Setup/Calibration. Use Steer Right to open the Setup/Calibration menu.

1b



1c

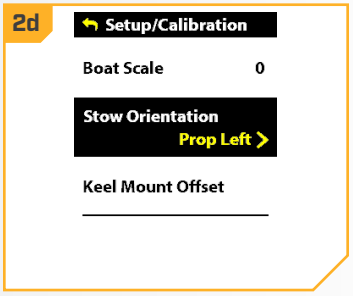


2

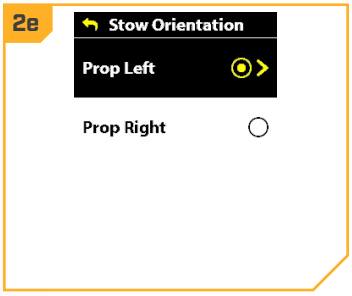
d. Once in the Setup/Calibration menu, use the Speed Up or Speed Down button to find Stow Orientation. Use Steer Right to open the Stow Orientation menu.

e. In the Stow Orientation menu, use the Speed Down or Speed Up button to scroll between Prop Left and Prop Right. Use the Steer Right button to select the desired stow orientation.

2d



2e



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Setting the Stow Orientation with the Minn Kota Fishing App

1

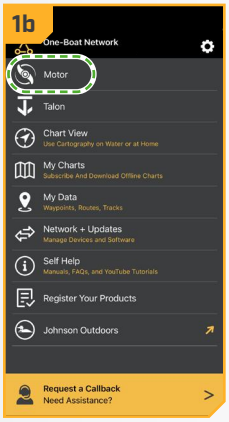
a. Open the Minn Kota Fishing App on a mobile device. Make sure the mobile device is paired with the trolling motor and that the motor is powered "on."

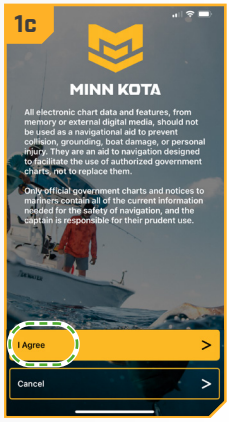
b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt previously displayed, the Motor home screen appears.

d. On the Motor home screen, locate the Motor Settings button in the upper-right corner and tap it.





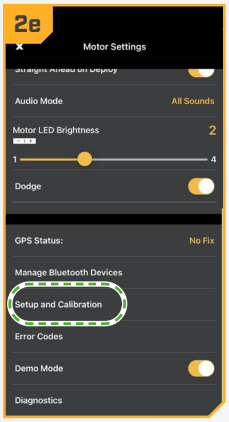


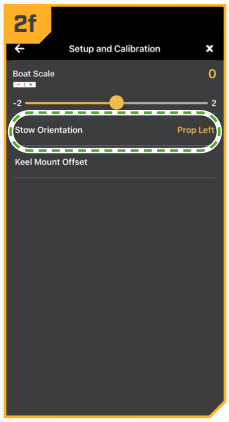
2

e. In the Motor Settings menu, find and tap Setup and Calibration.

f. In Setup and Calibration, find and tap Stow Orientation.

g. Set the feature to Prop Right or Prop Left.







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BOAT SCALE

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

An example showing the need to reduce Boat Scale would be while using Spot-Lock and the motor is over-correcting or making frequent adjustments. In this case, try reducing Boat Scale -1 to reduce this behavior. If the behavior continues, reduce Boat Scale to -2. An example showing the need to increase Boat Scale while using Spot-Lock would be the motor is drifting away from its target location frequently or needs help to make corrections. Try increasing Boat Scale to +1 to help improve the trolling motor accuracy in this case. If the behavior continues, increase Boat Scale to +2.

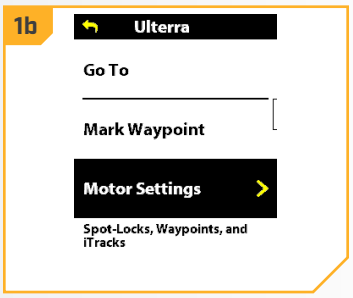
Adjusting Boat Scale with the Wireless Remote

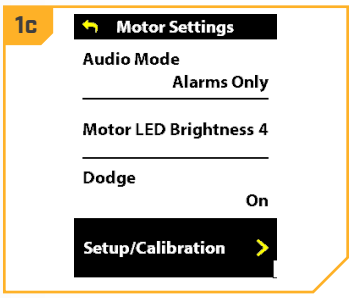
1

a. With the motor on, press the Menu button on the Wireless Remote.

b. Use the Speed Up or Speed Down button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings Menu, use the Speed Up or Speed Down button to find Setup/Calibration.

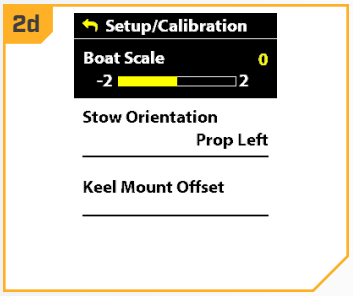




2

d. Once in the Setup/Calibration menu, use the Speed Up or Speed Down button to find Boat Scale.

e. Use the Steer Left or Steer Right button to adjust the Boat Scale to one of the five settings: -2, -1, 0, 1 or 2.



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Adjusting Boat Scale with the Minn Kota Fishing App

1

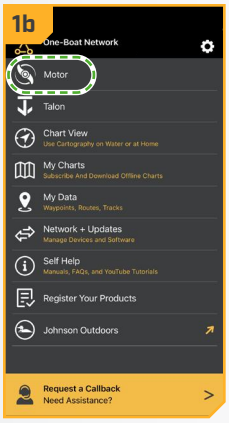
a. Open the Minn Kota Fishing App on a mobile device. Ensure the mobile device is paired with the trolling motor and that the motor is powered "on."

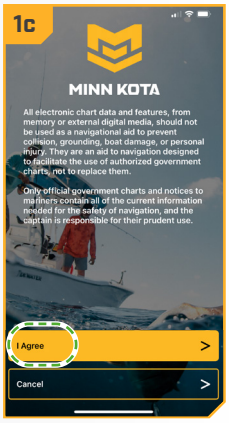
b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears.

d. On the Motor home screen, locate the Motor Settings button in the upper-right corner and tap it.





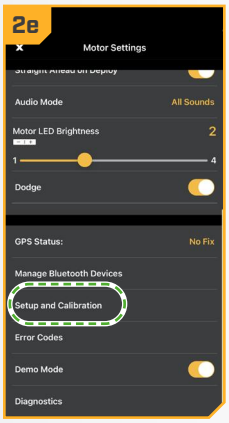


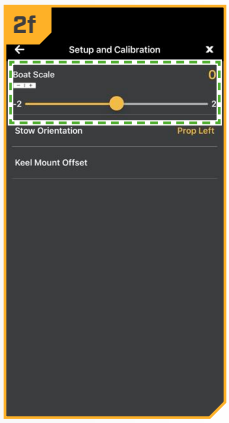
2

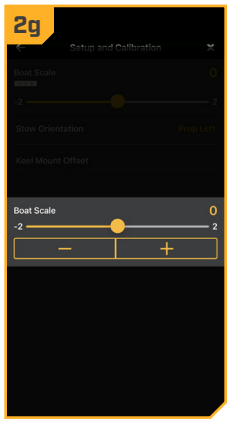
e. In the Motor Settings menu, find and tap Setup and Calibration.

f. In Setup and Calibration, find and tap Boat Scale.

g. Set the feature to increase or decrease Boat Scale.





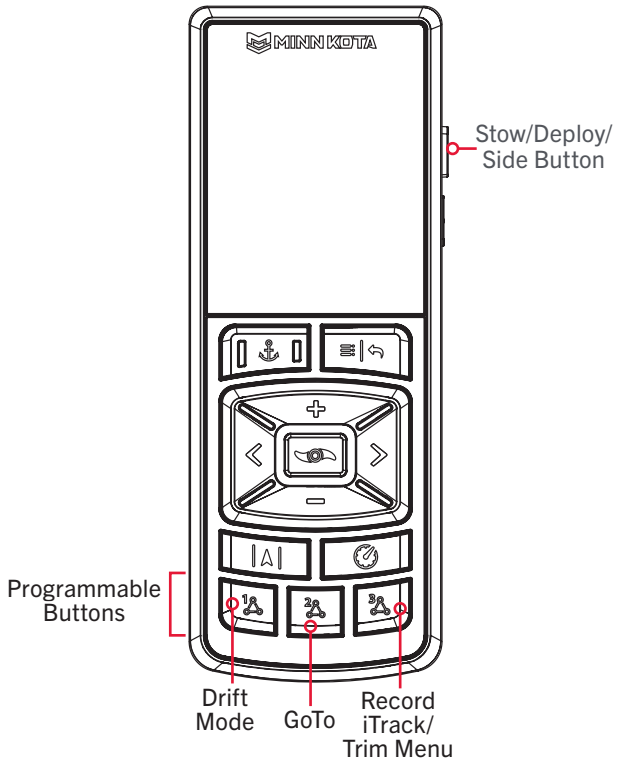


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PROGRAMMABLE BUTTONS ❯

Minn Kota trolling motors equipped with Advanced GPS Navigation are compatible with devices enabled with Programmable Buttons, including the Wireless Remote. Select functions can be enabled and disabled through Programmable Buttons on the Wireless Remote. The function of the buttons can be customized based on user preference to enhance operation of the product.

CUSTOMIZING PROGRAMMABLE BUTTONS ON THE WIRELESS REMOTE



Programmable Button Defaults			
	Drift Mode		Record iTrack/Trim Menu
	GoTo		Mark a Waypoint/Stow/Deploy

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CUSTOMIZING PROGRAMMABLE BUTTONS ON THE WIRELESS REMOTE

Select functions can be enabled and disabled through Programmable buttons on the Wireless Remote. The Programmable buttons can be customized to control the following functions, depending on the Minn Kota System setup:

Function	Icon	Description
Drift Mode		Drift mode is the default function for Button 1. Press once to engage Drift Mode. Press a second time to Adjust Course.
Go To		Go To is the default for Button 2. Press once to open the Go To Menu. The Go To options are Spot-Locks, Waypoints, iTracks and Drift.
Record iTrack		Record iTrack is the default function for Button 3. Press once to start recording an iTrack. Press a second time to save the iTrack.
Waypoint		Mark Waypoint is the default function for the Stow/Deploy/Side button on motors that do not have Stow/Deploy. Press once to save a Waypoint.
Max Speed		Max Speed must first be customized to one of the Programmable buttons. Double press to engage Max Speed. Single press to return to the previous speed.
Talon/Raptor		The shallow water anchor function must first be customized on one of the Programmable buttons. The shallow water anchor function will display as Talon or Raptor depending on your configuration. Double press to deploy the anchor. Press once to pause or stow the anchor.
Stow/Deploy		Stow-Deploy is the default function for the Stow/Deploy/Side button on the Wireless Remote for trolling motors with stow/deploy. Double press to deploy. Single press to stow or pause.
Trim		Trim is the default function for Button 3 on motors that have Stow/Deploy. Press once to open the Trim Menu.

⚠ WARNING

Watch for a turning Prop when working with Waypoints. Auto Prop On is set to "off" by default on the Advanced GPS Navigation System. If Auto Prop On is turned "on," the Prop will automatically turn on when a Waypoint is engaged, even if the engagement is accidental. A turning prop can cause injury. If Auto Prop On is turned "off," the Prop must be enabled before the boat will begin navigating to a Waypoint.

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CUSTOMIZING PROGRAMMABLE BUTTONS ON THE WIRELESS REMOTE

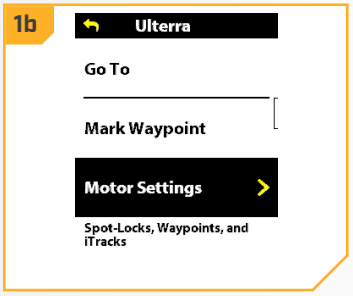
1

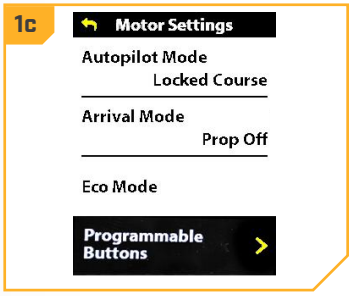
a. On the Wireless Remote, press the Menu button to open the Motor Menu.

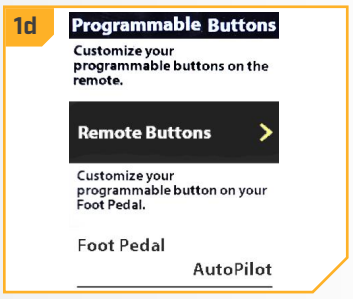
b. In the Motor Menu, use the Speed Down or Speed Up button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings menu, use the Speed Down or Speed Up button to find Programmable Buttons. Use the Steer Right button to select Programmable Buttons.

d. In the Programmable buttons Menu, use the Speed Down or Speed Up button to find Remote Buttons. Use the Steer Right button to select Remote Buttons.







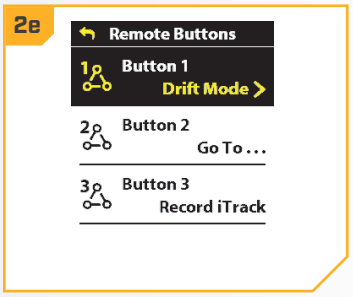
2

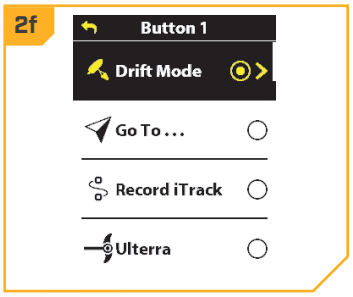
e. Use the Speed Down or Speed Up button to highlight the button to customize. There are four options: Button 1, Button 2, Button 3 or Side Button. Press the Steer Right button to make the selection.

f. Use the Speed Down or Speed Up button to scroll through the options. Use the Steer Right button to select the function.

NOTICE: The radio button next to the desired function will be selected when the Steer Right button is used to customize the function. The function options listed are based on the trolling motor and other devices in the Minn Kota System.

g. Press and hold the Menu button to close and return to the Home Screen.



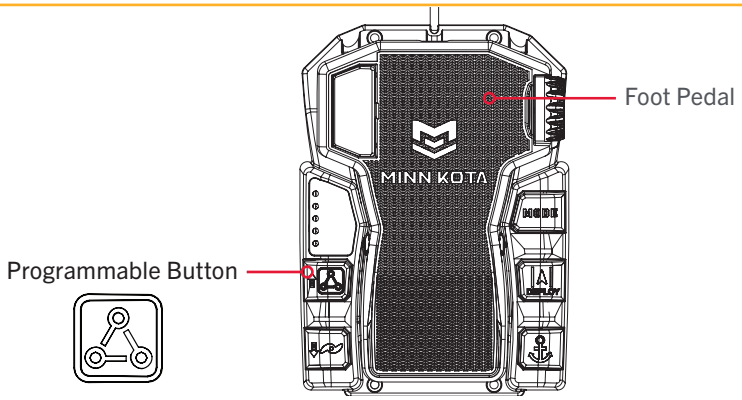


NOTICE: For quick customization, press and hold the programmable button you want to customize to quickly bring up the customization screen.

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CUSTOMIZING THE PROGRAMMABLE BUTTON ON THE FOOT PEDAL

Customize the Programmable button on the Instant Response Foot Pedal to control the Ulterra QUEST trolling motor. Functions are enabled and disabled through the Foot Pedal with the Programmable button. This button can be customized using either the Wireless Remote or the Minn Kota Fishing App on a paired mobile device.



Customize the Programmable button on the Foot Pedal to perform the following functions:

Function	Operation	LED Indication
AutoPilot (default)	Engage and disengage AutoPilot	Red LED illuminates when AutoPilot is engaged and stay on until disengaged.
Waypoint	Mark a Waypoint	Red LED illuminates when the Programmable button is pressed and then turns off, signaling that a Waypoint was marked.
Shallow Water Anchor (Raptor/Talon)	Deploy and retract a Raptor/Talon	Red LED steadily flashes when the Shallow Water Anchor is deploying or stowing. Red LED stays illuminated when the anchor is at any state of deployment, including when it is paused. Red LED turns off when the anchor is fully stowed.

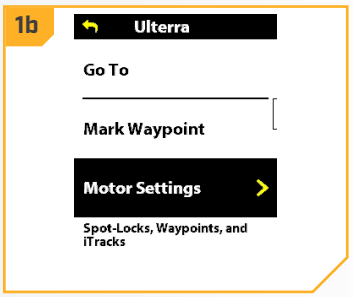
Customize the Programmable Button on the Foot Pedal with the Wireless Remote

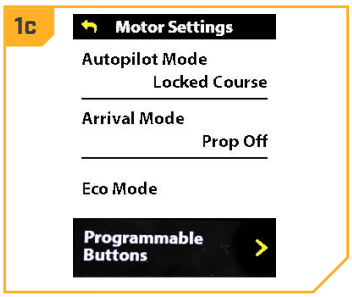
1

a. With the trolling motor powered on, press the Menu button on the Wireless Remote.

b. In the Motor Menu, use the Speed Down or Speed Up button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings menu, use the Speed Down or Speed Up button to find Programmable Buttons. Use the Steer Right button to select Programmable Buttons.





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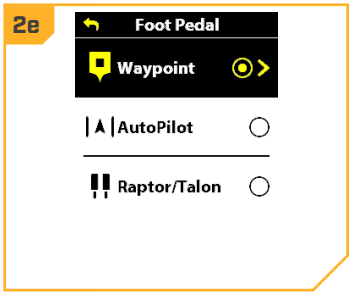
2

d. In the Programma ble Buttons, use the Speed Down or Speed Up button to find Foot Pedal. Use the Steer Right button to select Foot Pedal.

e. In the Foot Pedal menu, use the Speed Down or Speed Up button to find the desired function. Use the Steer Right button to select the function.

f. Press and hold the Menu button to close and return to the Home Screen.





NOTICE: The radio button next to the desired function will be selected when the Steer Right button is used to customize the function. AutoPilot is the default selection for Ulterra QUEST trolling motors. The function options listed are based on the trolling motor and other devices in the Minn Kota System.

Customize the Programmable Button on the Foot Pedal with the Minn Kota Fishing App

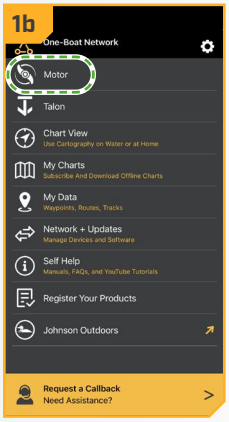
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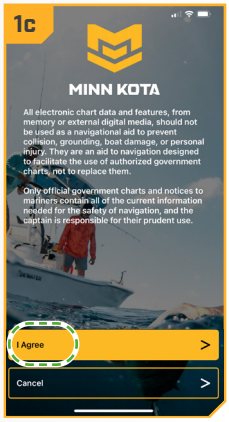
a. Open the Minn Kota Fishing App on a mobile device. Ensure the mobile device is paired with the trolling motor and that the motor is powered “on.”

b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

d. On the Motor home screen, locate the Motor Settings button in the upper-right corner and tap it.





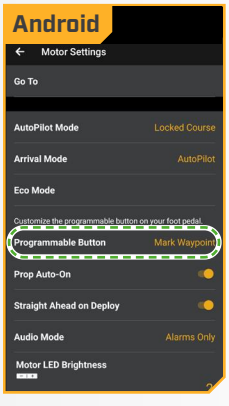


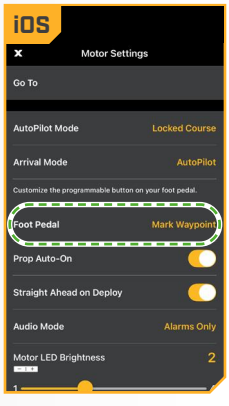
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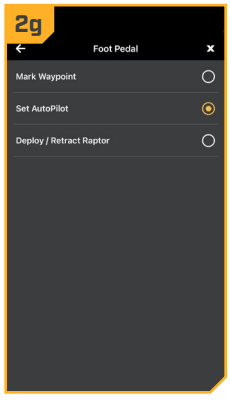
e. **On an Android:** in the Motor Settings menu, locate “Programmable Button” and tap it.

f. **On iOS:** in the Motor Settings menu, locate “Foot Pedal” and tap it.

g. Tap the desired function. The radio button next to the selected function will be highlighted.





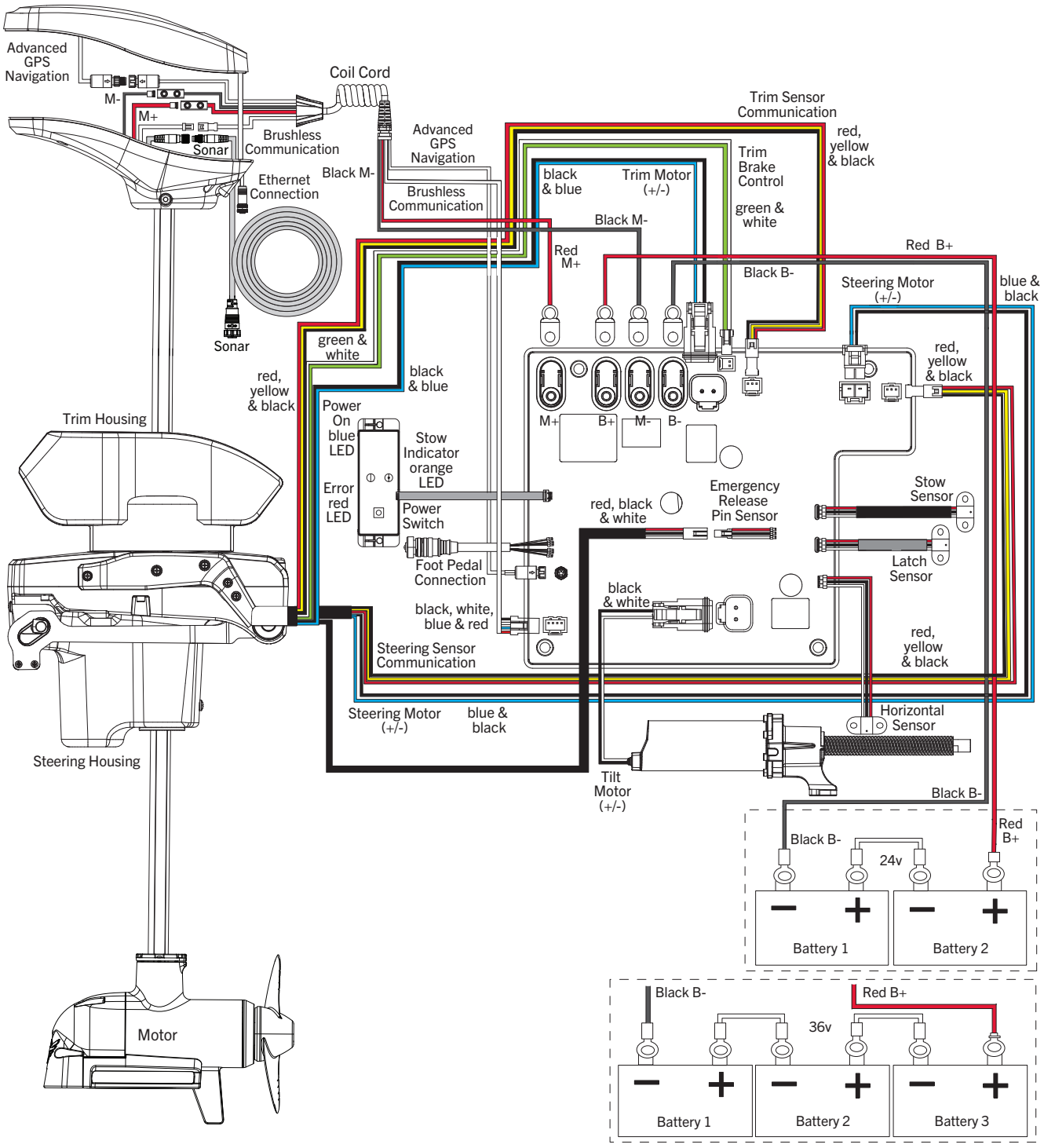


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MOTOR WIRING DIAGRAM

ULTERRA QUEST

The following Motor Wiring Diagram applies to all Ulterra QUEST models. Sonar is either Dual Spectrum CHIRP or Side Imaging Sonar.



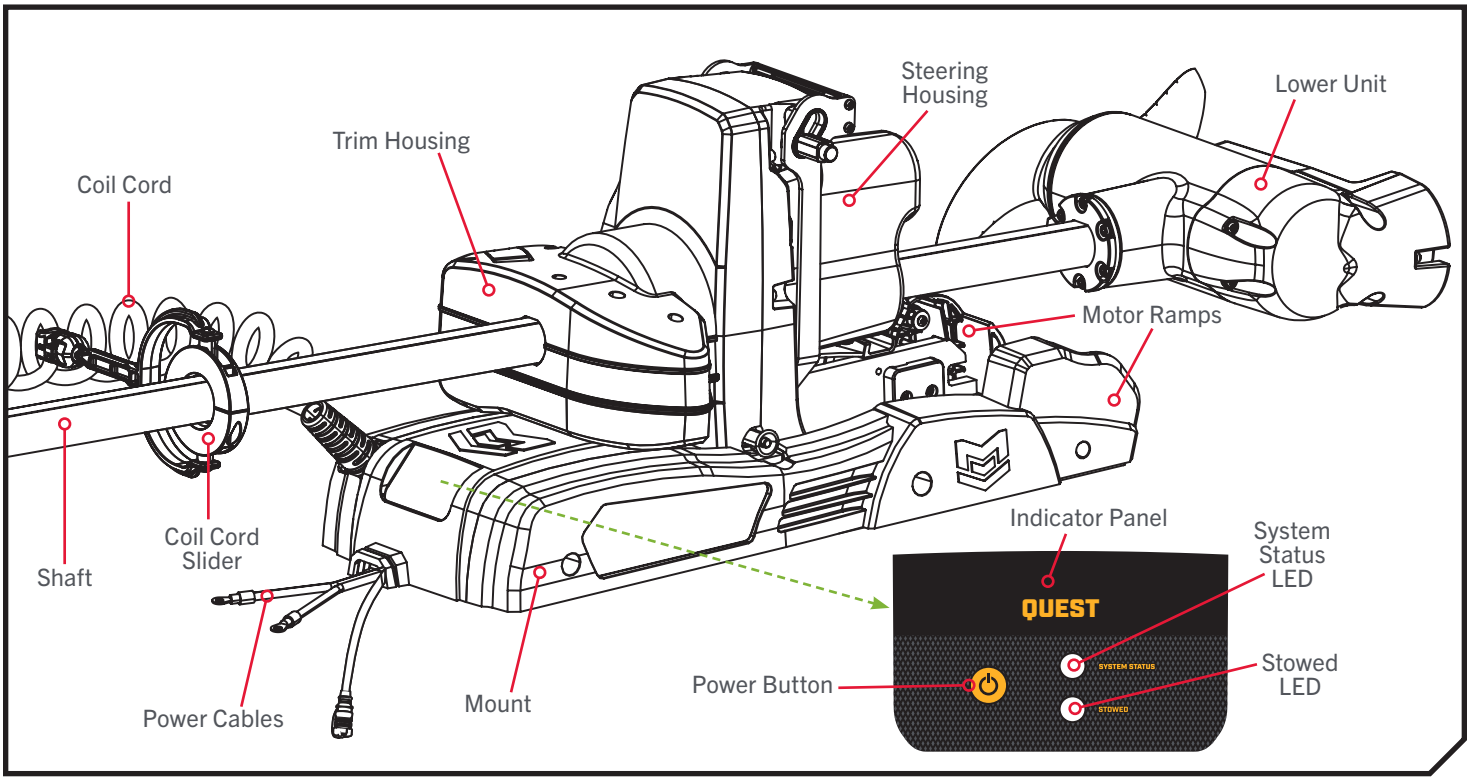
NOTICE: This is a multi-voltage diagram. Double-check your motor's voltage for proper connections. Over-Current Protection Devices are not shown in this illustration.

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USING & ADJUSTING THE MOTOR

MOTOR FEATURES

Become familiar with the features of the motor to maximize the capabilities this product offers.



Mount

The Mount holds the motor on the deck of the boat. The Mount positions the motor when deployed and secures the motor flat on the deck when stowed. The Indicator Panel is located on the end of the Mount, near the Power Cables.

Motor Ramps

The Motor Ramps hold and support the Lower Unit when the motor is stowed. When the Lower Unit rests securely on the Motor Ramps, the STOWED LED on the Indicator Panel will illuminate orange. The Motor Ramps also hold the motor in the deployed position.

⚠ WARNING

When stowing or deploying the motor, keep fingers clear of all hinges, pivot points, pinch points and all moving parts.

Coil Cord Slider

Motors with a shaft length of 72” have a Coil Cord Slider. The Coil Cord Slider functions to support the Coil Cord and prevent it from becoming tangled or hitting obstructions. The Coil Cord Slider sits on the Shaft between the Control Head and Trim Housing. The arm of the Coil Cord Slider connects to the Coil Cord. The Coil Cord Slider floats freely on the shaft and moves with the Coil Cord while stowing and deploying. The Coil Cord Slider is not present on motors with a shaft length of 45” or 60”.

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⚠ WARNING

When transporting the motor, it is important to always stow the motor and ensure the Lower Unit is securely placed on the Motor Ramps. The STOWED LED on the Indicator Panel must illuminate orange to indicate a secure stow. A secure stow holds the motor in place during transportation when it is subject to high levels of shock and vibration. Failure to securely stow the motor may result in injury or damage to the unit.

⚠ CAUTION

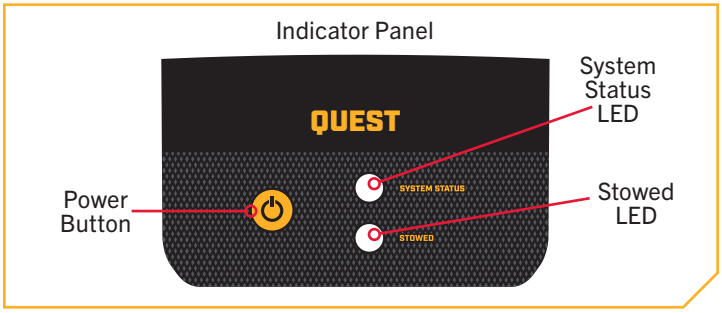
Ensure that the Power button is turned off when the motor is not in use. For safety reasons, disconnect the motor from the batteries when the motor is not in use or while the batteries are charging. If the motor control is left on and the Prop rotation is blocked, severe motor damage can result.

INDICATOR PANEL

The Indicator Panel is located on the end of the Mount, by the Power Cables. Power to the motor is turned "on" and "off" through the Power button on the Indicator Panel. The LEDs on the Indicator Panel communicate the status of the motor.

Power Button

On the Indicator Panel, press the Power button once to turn the motor "on." When the motor is powered on, the System Status LED will illuminate blue. To turn the motor "off," press and release the Power button. When the motor is powered off, the System Status LED will not be illuminated. The Ulterra QUEST has an auto-shutoff and will automatically power off after 90 minutes of inactivity in the stowed position.



LED Patterns

STOWED

- **Orange solid** - Indicates that the trolling motor is stowed and the Lower Unit is resting securely on the Motor Ramps. When the Lower Unit is off of the Motor Ramps, the STOWED LED will not be illuminated.

SYSTEM STATUS

- **Blue solid** - Normal operation. The trolling motor is powered on. When the Motor is powered off, the System Status LED will not be illuminated.
- **Red flashing** - Critical error. The Prop will lock and cannot be engaged. A critical error must be manually cleared by correcting the source of the error. Once fixed, cycle power to the trolling motor by pressing the Power button “off” and then back “on" to clear the error and resume normal operation.

⚠ WARNING

The trolling motor is not safely stowed for transport until the orange STOWED LED is illuminated.

NOTICE: When encountering a critical error, the Wireless Remote will provide an error code in the Diagnostics menu. Refer to the Wireless Remote Owner's Manual to learn more about error codes.

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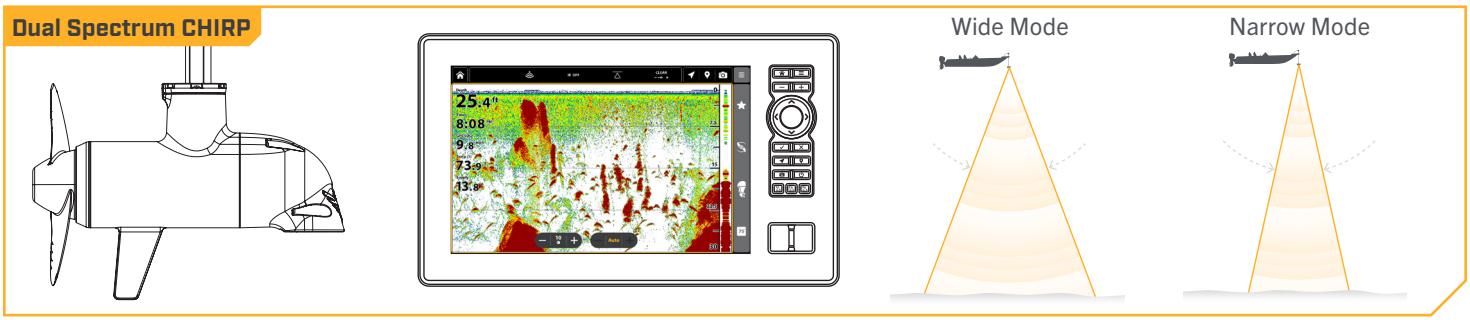
BATTERY MONITORING

The Ulterra QUEST trolling motor communicates valuable real time trolling motor battery data to all connected Minn Kota fish finders. Answer a few easy questions on the Minn Kota fish finder to set the battery chemistry and system type. The Minn Kota System monitors the batteries connected to the trolling motor while the prop is running. The Minn Kota fish finder displays the remaining battery in 1% increments, providing essential data about the trolling motor battery system, including time remaining and time at empty, on an easy-to-read dashboard. Please see the Minn Kota fish finder Owner's Manual online at minnkota.johnsonoutdoors.com to learn more about Minn Kota Battery Monitoring.

ADVANCED GPS NAVIGATION

The Ulterra QUEST comes with Advanced GPS Navigation. Advanced GPS Navigation offers popular trolling motor control features, including Spot-Lock, AutoPilot, Drift Mode, Dodge Mode, and Cruise Control. Trolling motors with Advanced GPS Navigation pair with Minn Kota fish finders to use the power of the Minn Kota System to enhance motor control, display detailed maps, and built-in sonar powered by Humminbird Imaging. The Minn Kota System seamlessly integrates what your fish finder sees with what your trolling motor does, turning sonar and mapping data into auto-navigation and precise boat positioning so you can stay focused on fishing. Advanced GPS Navigation features are controlled with either the Wireless Remote, Minn Kota Fishing App, or Minn Kota fish finder. To learn more about the GPS capabilities available with your new motor, please refer to the Advanced GPS Navigation Owner's Manual by visiting minnkota.johnsonoutdoors.com.

DUAL SPECTRUM CHIRP



The Ulterra QUEST trolling motor may be pre-installed with a transducer system powered by Humminbird Imaging featuring Dual Spectrum CHIRP. A Dual Spectrum CHIRP transducer includes a temperature sensor that is integrated into the lower unit of the trolling motor. By covering a wide range of frequencies, Dual Spectrum CHIRP produces more accurate, more detailed returns of fish, structure, and the bottom. The integrated design of the Dual Spectrum CHIRP transducer protects it in the trolling motor lower unit from underwater hazards and prevents tangles and damage to the transducer cables. Dual Spectrum CHIRP has superior target separation, defining fish from their habitat. Large game fish will appear on the display as long, well-defined arches for quick identification and accurate lure presentation.

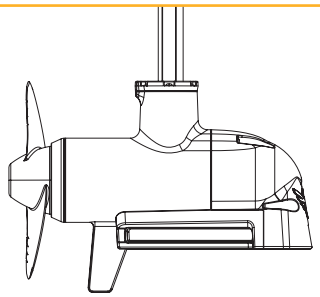
When connected to a Minn Kota fish finder with Humminbird Imaging, Dual Spectrum CHIRP provides full-spectrum capability and the ability to select start and end frequencies by operating in two different modes. Wide Mode for maximum coverage and Narrow Mode for maximum detail. Wide Mode allows you to search deep and wide. Wide Mode is used for watching a lure while vertical jigging, or gaining a more expansive view in shallow water. Narrow Mode is used to hone in on the small stuff that makes a big difference. Narrow Mode provides a precise perspective of the water below, helping target individual fish or identify fish hidden in structure and/or tight to the bottom.

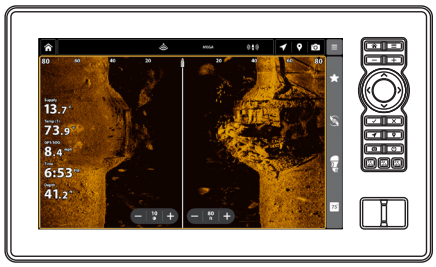
NOTICE: In certain situations, air bubbles may adhere to the surface of the Dual Spectrum CHIRP transducer and affect the performance. If this happens, wipe the transducer surface to clear the bubbles.

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SIDE IMAGING SONAR

Side Imaging Sonar





The Ulterra QUEST trolling motor may be installed with Side Imaging® Sonar. Trolling motors with Side Imaging Sonar have a specialized transducer built into the lower unit that can provide Side, Down, and Dual Spectrum CHIRP Sonar when connected to a Minn Kota fish finder with Humminbird Imaging. When using the transducer to provide Side Imaging Sonar, the transducer uses an ultra-thin beam of high-frequency sonar to scan the area up to 400 feet to the left and right of your boat location - for total coverage of up to 800 feet. This provides a 180-degree side-to-side perspective of the world below the surface. The return image for each slice is then added to the images taken immediately before and after to build an incredible view of the lake bottom for the terrain your boat has already passed over.

When connected to a Minn Kota fish finder with Humminbird Imaging, the trolling motor collects images and combines them into a single image on the display. See the bottom, rocks, weed beds, and crevices to understand your bottom type by locating areas of interest. Easily distinguish fish from structure, see the direction fish are facing, and even target individual species. Structure will appear as a clearly defined bright shape with an adjacent dark sonar “shadow.” Generally, long shadows indicate that an object is tall, and short shadows indicate that something is short. The fish finder can then magnify image details with the zoom feature or mark the GPS location of promising cover or structure directly on the screen. See fish so defined that you can practically target each one individually. For more information about fine-tuning the images on the Minn Kota fish finder display, please see the fish finder Owner’s Manual. For more information about connecting the trolling motor to a fish finder, please see the “Sonar and Ethernet Connection” section of this Owner’s Manual.

When the transducer provides Down Imaging Sonar, it uses the same razor-thin, high-frequency beam to create picture-like images of structure, vegetation, and fish. But unlike Side Imaging, Down Imaging returns are oriented the same way as traditional down-looking sonar returns, such as Dual Spectrum CHIRP, with the most recent information appearing on the right side of the screen.

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STOW & DEPLOY ❯

STOWING AND DEPLOYING THE ULTERRA QUEST

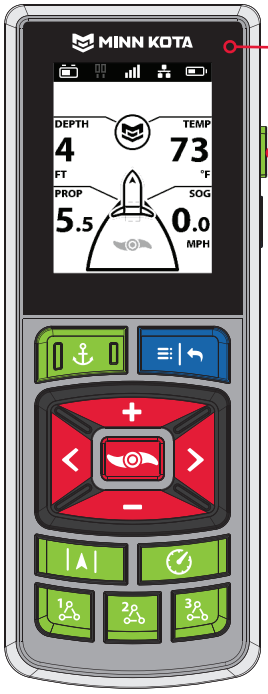
The Ulterra® QUEST™ provides push-button command from anywhere on the boat. Stow, deploy or trim the motor up and down by using the buttons on the Advanced GPS Navigation Wireless Remote, Foot Pedal, Minn Kota Fishing App, or a connected fish finder. It's instant. Effortless. And it makes the Ulterra QUEST the easiest-to-use motor on the water.

Use the following procedures to stow and deploy the motor. If the motor stalls when attempting to stow, the motor may be encountering an error. Check for obstructions or low motor batteries. If the batteries are too low to fully stow the motor, re-engage power, deploy the motor, trim the lower unit to its highest setting, and turn power off until batteries can be recharged. Once batteries are charged, attempt to stow the motor again.

STOWING AND DEPLOYING WITH THE WIRELESS REMOTE

Stow and deploy the Ulterra QUEST trolling motor with the Wireless Remote. When a Wireless Remote is paired to an Ulterra QUEST, the Stow/Deploy/Side button function defaults to Stow/Deploy. The Power Menu provides access to the Ulterra Menu as an alternate option to stow or deploy capable trolling motors. In addition, program the 1, 2, and 3 buttons to the Stow/Deploy function.

NOTICE: The 1, 2, and 3 buttons can be programmed to the Stow/Deploy function. When programmed to a button, the Stow/Deploy feature will behave identically to the Stow/Deploy/Side button for the Ulterra QUEST trolling motor.



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Deploying the Motor with the Stow/Deploy/Side Button

1

NOTICE: The Stow/Deploy/Side button / has two functions. The function changes depending on the trolling motor with which the Wireless Remote is paired. The default function of the Stow/Deploy/Side button for the Ulterra, Ulterra QUEST, or RT Instinct QUEST is to stow and deploy the motor. The button can be programmed to select functions for all other motors.

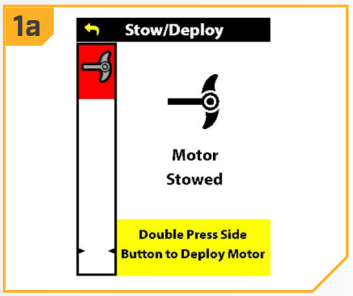
a. When the motor is stowed, double-press the Stow/Deploy/Side button on the Wireless Remote to deploy the Ulterra QUEST motor.

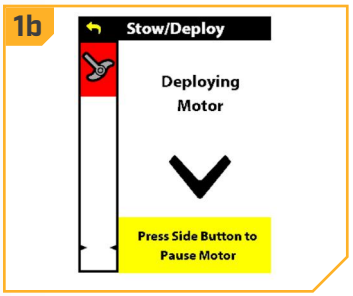
⚠ WARNING

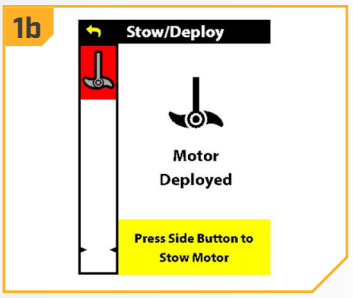
As soon as the Stow/Deploy/Side button is selected, the motor automatically deploys. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing and deploying to prevent accidental contact with the rotating propeller.

b. The Ulterra QUEST motor deploys. When the deployment process is complete, normal motor operation follows.

NOTICE: To pause the action while the motor is deploying, press the Stow/Deploy/Side button.







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Deploying the Motor with the Power Menu

1

NOTICE: The Power Menu times out after 10 seconds of inactivity. When the Ulterra Menu is used to stow or deploy the motor, the menu closes after the stow or deploy completes. If the stow or deploy is paused, the Ulterra Menu closes after 10 seconds of inactivity.

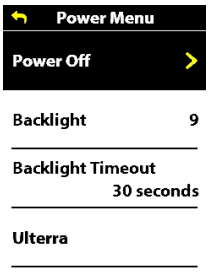
a. Press the Power button on the Wireless Remote to open the Power Menu.

b. Use the Speed Up or Speed Down button to find Ulterra.

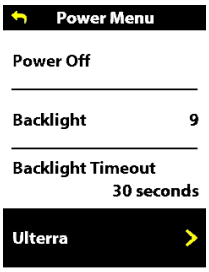
c. Press the Steer Right button to select Ulterra.

NOTICE: The Ulterra Menu is only found in the Power Menu on the Wireless Remote paired with an Ulterra or Ulterra QUEST.

1a



1b



NOTICE: The Deploy option is only displayed when the motor is stowed.

2

d. Press the Steer Right button to select Deploy. The Ulterra QUEST motor deploys.

WARNING

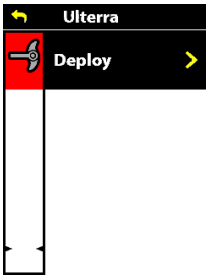
As soon as Deploy is selected, the motor automatically deploys. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing and deploying to prevent accidental contact with the rotating propeller.

e. To pause the action while deploying, press the Steer Right button and select Pause.

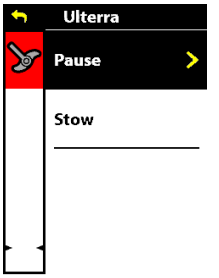
f. To resume the Deploy action, press the Steer Right button to select Deploy.

g. If the motor continues, it completes the deploy process, and normal motor operation follows.

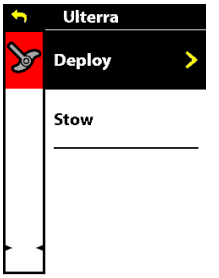
2d



2e



2f



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Stowing the Motor with the Stow/Deploy/Side Button

1

NOTICE: The Stow/Deploy/Side button / has two functions. The function changes depending on the trolling motor with which the Wireless Remote is paired. The default function of the Stow/Deploy/Side button for the Ulterra, Ulterra QUEST, or RT Instinct QUEST is to stow and deploy the motor. The button can be programmed to select functions for all other motors.

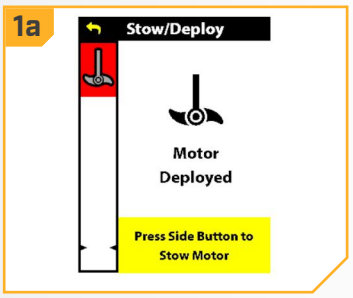
a. When the motor is deployed, press the Stow/Deploy/Side button in the Wireless Remote to stow the Ulterra QUEST motor.

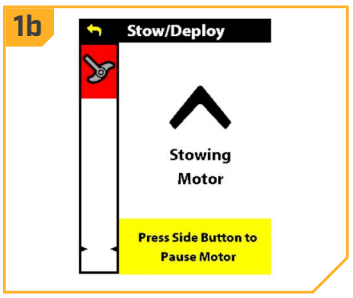
⚠ WARNING

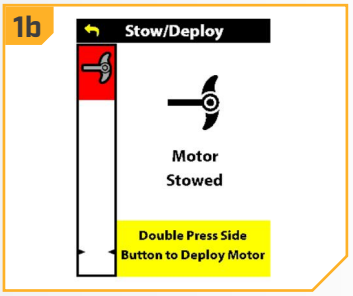
As soon as the Stow/Deploy/Side button is selected, the motor automatically stows. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing and deploying to prevent accidental contact with the rotating propeller.

b. The Ulterra QUEST motor stows. When the stow process is complete, normal motor operation follows.

NOTICE: To pause the action while the motor is stowing, press the Stow/Deploy/Side button.







⚠ WARNING

The Ulterra QUEST motor is not safely stowed for transport until the orange STOWED LED on the Indicator Panel is illuminated.

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Stowing the Motor with the Power Menu

1

NOTICE: The Power Menu times out after 10 seconds of inactivity. When the Ulterra Menu is used to stow or deploy the motor, the menu closes after the stow or deploy completes. If the stow or deploy is paused, the Ulterra Menu closes after 10 seconds of inactivity.

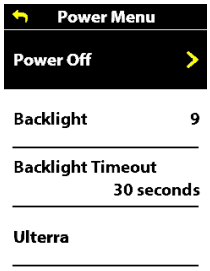
a. Press the Power button on the Wireless Remote to open the Power Menu.

b. Use the Speed Up or Speed Down button to find Ulterra 2.0.

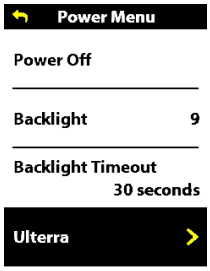
c. Press the Steer Right button to select Ulterra 2.0.

NOTICE: The Ulterra Menu is only found in the Power Menu on the Wireless Remote paired with an Ulterra or Ulterra QUEST.

1b



1c



NOTICE: The Stow option is only displayed when the motor is deployed.

2

d. Press the Steer Right button to select Stow. The Ulterra QUEST motor stows.

WARNING

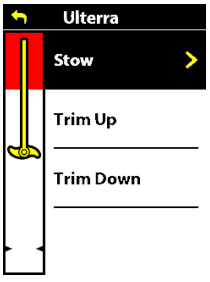
As soon as Stow is selected, the motor automatically stows. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing and deploying to prevent accidental contact with the rotating propeller.

e. To pause the action while stowing, press the Steer Right button and select Pause.

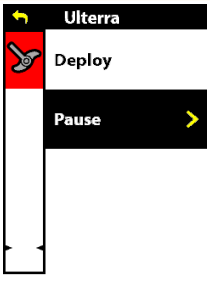
f. To resume the Stow action, press the Steer Right button to select Stow.

g. If the motor continues, it completes the stow process, and normal motor operation follows.

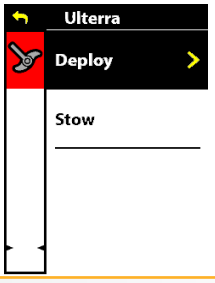
2d



2e



2f



WARNING

The Ulterra QUEST motor is not safely stowed for transport until the orange STOWED LED on the Indicator Panel is illuminated.

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STOWING AND DEPLOYING WITH THE MINN KOTA FISHING APP

Deploying with the Minn Kota Fishing App

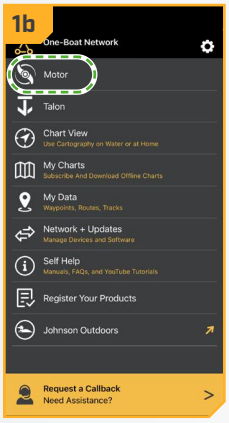
1

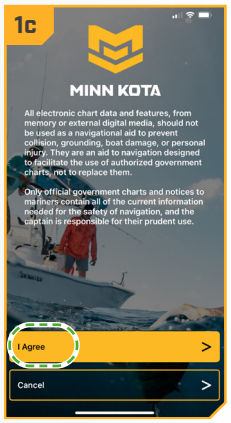
a. Open the Minn Kota Fishing App on the mobile device. Ensure the mobile device is paired with the trolling motor.

b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears after.





2

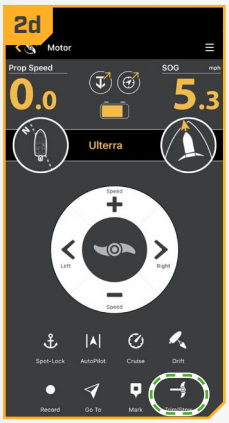
d. Tap Trim/Stow on the bottom of the screen to open the Trim/Stow/Deploy menu.

e. Tap Deploy to automatically deploy the motor. Normal motor operation will follow.

⚠ WARNING

As soon as Deploy is tapped, the motor will automatically deploy. Be sure that the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing or deploying to prevent accidental contact with the rotating Prop.

NOTICE: While the motor is deploying, it is possible to stop the action by tapping Pause. To resume, tap the desired action.





NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.

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Stowing with the Minn Kota Fishing App

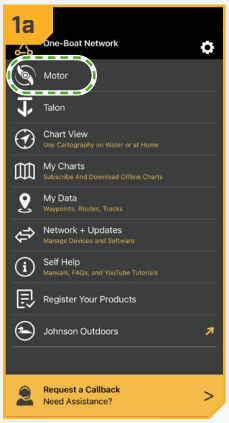
1

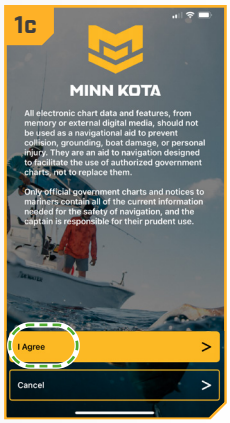
a. Open the Minn Kota Fishing App on the mobile device. Ensure the mobile device is paired with the trolling motor.

b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears after.





2

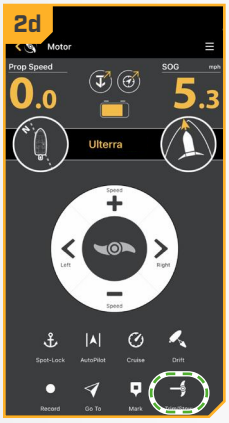
d. Tap Trim/Stow on the bottom of the screen to open the Trim/Stow/Deploy menu.

e. Tap Stow to automatically stow the motor. The Prop will be disabled and "Motor Stowed" will display on the screen.

⚠ WARNING

As soon as Stow is tapped, the motor will automatically stow. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is stowing or deploying to prevent accidental contact with the rotating Prop.

NOTICE: While the motor is stowing, it is possible to stop the action by tapping Pause. To resume, tap the desired action.





⚠ WARNING

The Ulterra QUEST is not safely stowed for transport until the orange STOWED LED on the Indicator Panel is illuminated.

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STOWING AND DEPLOYING WITH THE FOOT PEDAL

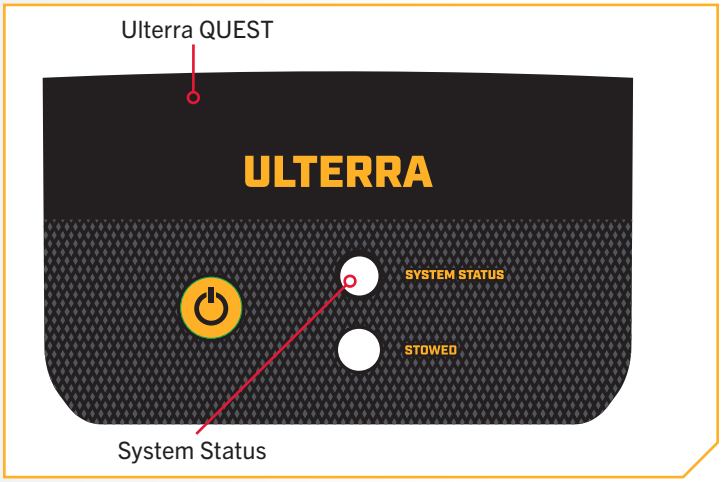
Use the following procedures to stow and deploy the motor. If the motor encounters an error while stowing, it may stall. Check for obstructions or low motor batteries. If the batteries are too low to stow the motor fully, re-engage power, deploy the motor, trim the lower unit to its highest setting, turn the power off, and recharge the batteries. With the batteries charged, attempt to stow the motor again.

⚠ WARNING

The Ulterra QUEST trolling motor is not safely stowed for transport until the orange STOWED LED on the trolling motor Indicator Panel is illuminated.

1

a. Locate the Indicator Panel at the end of the Mount on the trolling motor. Ensure that the trolling motor is powered on. The System LED on the Indicator Panel for Ulterra QUEST will illuminate blue.



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2

b. Press the MODE button on the Foot Pedal. Confirm the white MODE ○ LED on the Indicator Panel is illuminated, putting the Foot Pedal in Deployment Mode.

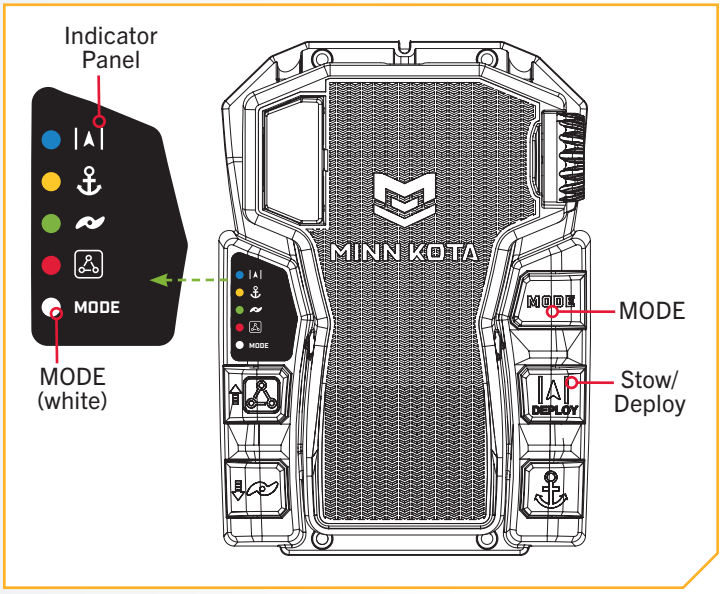
NOTICE: The motor can only stow and deploy in Deployment Mode.

c. Double-press the Stow/Deploy button to deploy the motor when it is stowed. To stow the motor when it is deployed, single press the Stow/Deploy button.

⚠ WARNING

When stowing or deploying the motor, keep fingers clear of all hinges, pivot points, and all moving parts. When stowing and deploying the motor, ensure that it doesn't contact the boat, trailer, or any other obstruction.

NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.



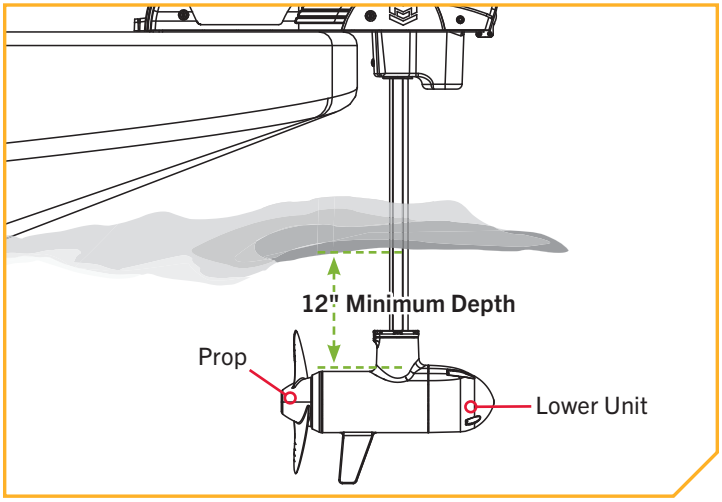
NOTICE: Stop the **deploy** sequence at any time by pressing the Stow/Deploy button. Stop the **stow** sequence at any time by pressing either the Trim Up or Trim Down button or the Stow/Deploy button.

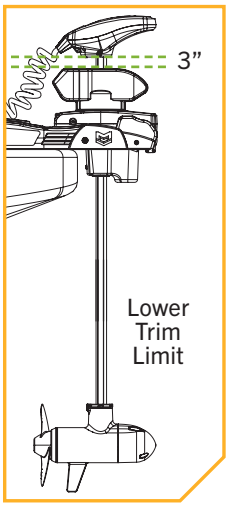
©2026 Johnson Outdoors Marine Electronics, Inc.

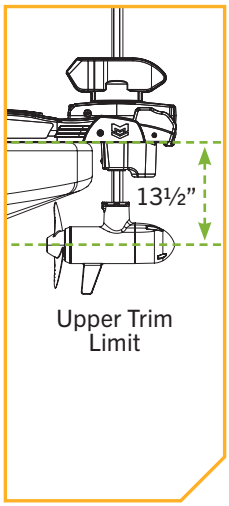
ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA QUEST

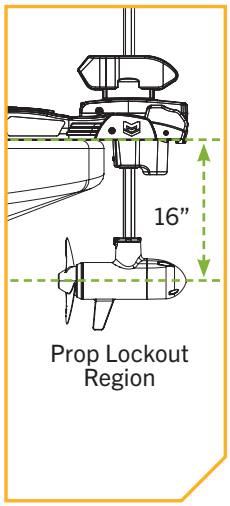
Once the boat is on the water, it may be necessary to adjust the trim of the Lower Unit up or down to achieve an optimum depth for motor performance. When setting the depth of the motor, be sure the top of the Lower Unit is submerged at least 12” below the surface of the water to avoid churning or agitation of surface water. It may be necessary to trim the motor up or down, depending on how the boat is responding. Trim up to avoid hitting underwater objects and trim down if the Prop is coming out of the water.

The Prop will temporarily stop while trimming the motor and resume once trimming is stopped. The motor is programmed to operate safely and limit Prop rotation when the Lower Unit is trimmed within certain limits. Trim limits are in place to avoid damage to the unit. A Lower Trim Limit is set approximately 3” from the bottom of the Control Head to the top of the Trim Housing. An Upper Trim Limit is set 13½” from the bottom of the Mount to the center of the Lower Unit. A Prop Lockout Region, defined as 16” from the bottom of the Mount to the center of the Lower Unit, is used to eliminate the possibility of the motor contacting the boat hull. All functions, except for manual steering and recording an iTrack, are canceled upon trimming into this region.







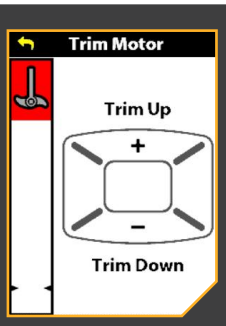


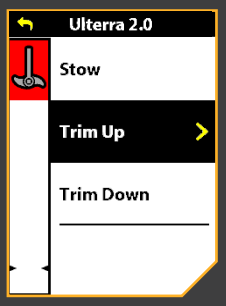
©2026 Johnson Outdoors Marine Electronics, Inc.

TRIMMING WITH THE WIRELESS REMOTE

When trimming the motor using the Wireless Remote, the Trim Menu is the default function for the 3 button for Ulterra, Ulterra QUEST, or RT Instinct QUEST motors. In addition, the 1 and 2 buttons can be programmed to the Trim Menu. The Power Menu provides access to the Ulterra Menu as an alternate option to trim capable trolling motors.

NOTICE: The red area is the Prop Lockout Zone. The Prop will be automatically disabled if the lower unit is trimmed into this zone, and the Prop icon will turn gray. To restore Prop functionality, trim the lower unit out of the Prop Lockout Zone. The Prop icon will turn yellow when the lower unit is out of the Prop Lockout Zone.







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Adjusting the Trim with the 3 Button

1

NOTICE: The Trim Menu does not have a timeout. While the Trim Menu is open, steering and prop control are enabled. The Trim Menu is the default function for the 3 button for Ulterra, Ulterra QUEST, or RT Instinct QUEST motors.

a. Ensure the motor is deployed and press the 3 button.

b. Use the Speed Up button to Trim Up and the Speed Down button to Trim Down. Trim Up raises the motor, and Trim Down lowers the motor.

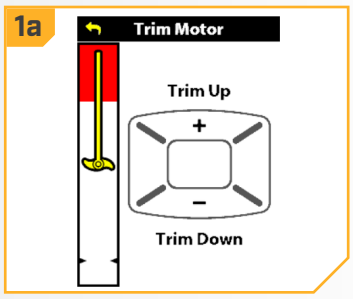
NOTICE: The Trim Menu only opens when the motor is deployed.

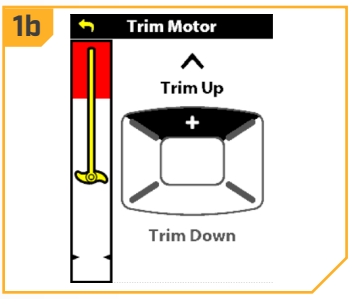
⚠ WARNING

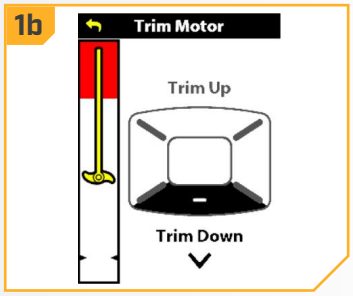
As soon as Trim Up or Trim Down is selected, the motor automatically trims. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is trimmed to prevent accidental contact with the rotating Prop.

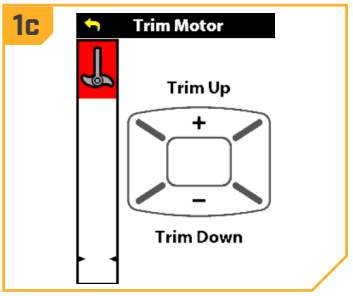
c. The motor no longer raises, and the Prop locks when Trim Up is selected and the motor reaches the Prop Lockout Zone. If the motor is trimmed to the Prop Lockout Zone, the Prop stays locked, even when the Trim Menu is closed. Trim the motor down and out of the Prop Lockout Zone to restore functionality.

d. When the lower trim limit is reached, the motor no longer lowers when Trim Down is selected. Press the Menu button to close the Trim Menu.









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Adjusting the Trim with the Power Menu

1

NOTICE: The Power Menu times out after 10 seconds of inactivity. To access motor control while trimming, use the Trim Menu programmed to a button. The Trim Menu is the default for the 3 button for Ulterra, Ulterra QUEST, or RT Instinct QUEST motors.

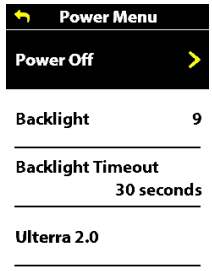
a. Ensure the motor is deployed and press the Power button on the Wireless Remote to open the Power Menu.

b. Use the Speed Up or Speed Down button to find Ulterra 2.0.

c. Press the Steer Right button to select Ulterra 2.0.

NOTICE: The Ulterra Menu is only found in the Power Menu on the Wireless Remote paired with an Ulterra or Ulterra QUEST.

1a



1b



NOTICE: The Trim option only displays when the motor is deployed.

2

d. Use the Speed Up or Speed Down button to select Trim Up or Trim Down. Trim Up raises the motor, and Trim Down lowers the motor.

e. Press and hold the Steer Right button to select Trim Up or Trim Down.

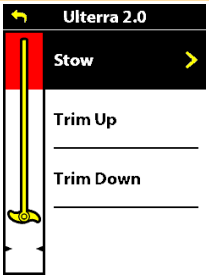
WARNING

As soon as Trim Up or Trim Down is selected, the motor automatically trims. Be sure the motor is clear of obstructions and has a clear path of travel. The Prop is disabled while the motor is trimmed to prevent accidental contact with the rotating Prop.

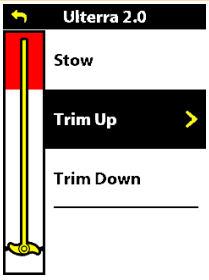
f. The motor no longer raises, and the Prop locks when Trim Up is selected and the motor reaches the Prop Lockout Zone. If the motor is trimmed to the Prop Lockout Zone, the Prop stays locked, even when the menu is closed. Trim the motor down and out of the Prop Lockout Zone to restore functionality.

g. When the lower trim limit is reached, the motor no longer lowers when Trim Down is selected.

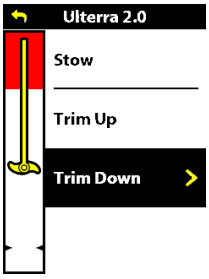
2d



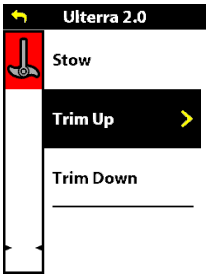
2e



2e



2f



WARNING

When trimming the motor, keep fingers clear of all hinges, pivot points and all moving parts.

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TRIMMING WITH THE MINN KOTA FISHING APP

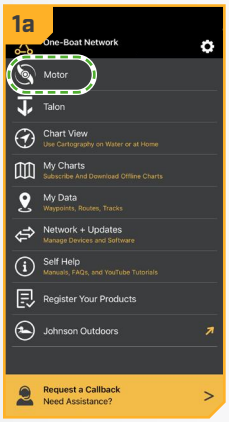
1

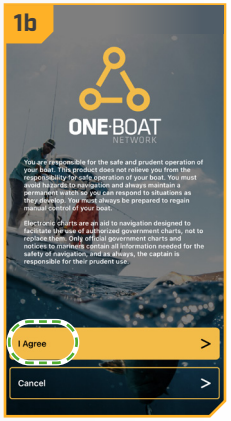
a. Open the Minn Kota Fishing App on the mobile device. Make sure the mobile device is paired with the trolling motor.

b. From the app home screen, tap the Motor menu. The Motor menu opens the Motor home screen.

c. Before the Motor home screen will open, tap Agree on the on-screen prompt.

NOTICE: The on-screen prompt will only display once each time the app is launched. If the prompt has displayed, the Motor home screen appears after.





2

d. Tap Trim/Stow on the bottom of the screen to open the Trim/Stow/Deploy menu.

e. To trim the motor up, press and hold Trim Up ⩓. Continue to hold until the lower unit is at the desired height.

f. To trim the motor down, press and hold Trim Down ⩔. Continue to hold until the lower unit as at the desired height.





⚠ WARNING

While Trim Up or Trim Down is pressed, the motor will automatically trim. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is being trimmed to prevent accidental contact with the rotating Prop.

⚠ WARNING

When trimming the motor, keep fingers clear of all hinges, pivot points and all moving parts.

NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.

NOTICE: The red area is the Prop Lockout region. The Prop will be automatically disabled if the lower unit is trimmed into this zone, and the Prop icon will turn gray. To restore Prop functionality, trim the lower unit out of the Prop Lockout region.



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TRIMMING WITH THE FOOT PEDAL

1

a. Press the MODE button on the Foot Pedal. Confirm the white MODE ○ LED on the Indicator Panel is illuminated, putting the Foot Pedal in Deployment Mode.

NOTICE: The motor can only trim while in Deployment Mode.

⚠ WARNING

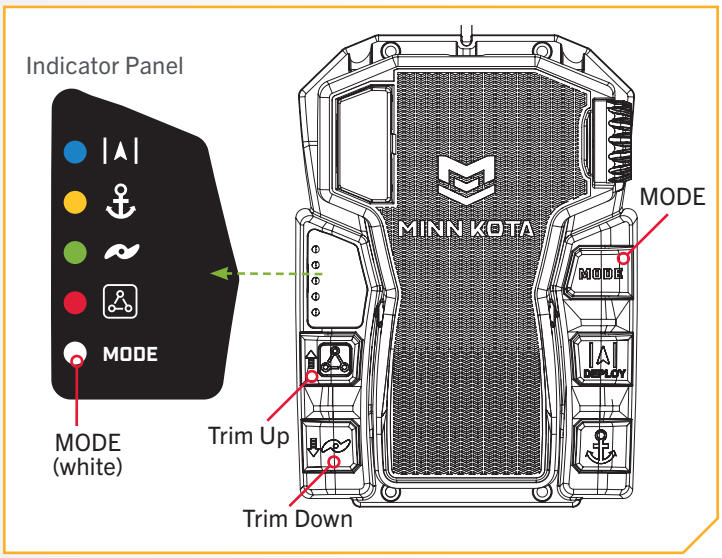
When trimming the motor, keep fingers clear of all hinges, pivot points, and all moving parts.

⚠ WARNING

While Trim Up or Trim Down is pressed, the motor will automatically trim. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor trims to prevent accidental contact with the rotating Prop.

b. To trim the motor up, press the Trim Up button on the middle left of the Foot Pedal.

c. To trim the motor down, press the Trim Down button on the lower left of the Foot Pedal.



NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.

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Adjusting the Lift Belt

The Lift Belt assists in trimming the Lower Unit up and down. Slack may appear periodically in the Lift Belt along the Shaft of the motor. To maintain tension on the Lift Belt, the screw that holds tension on the Lift Belt may occasionally require small adjustments.

1

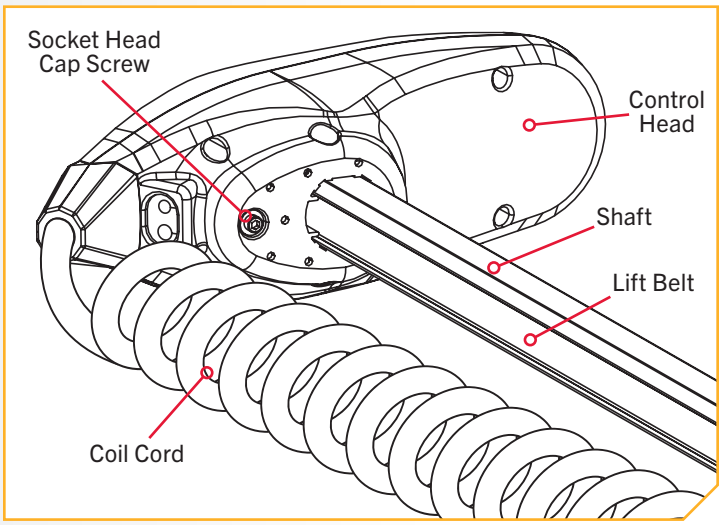
a. Place the motor in the stowed position. Once stowed, turn the motor off.

⚠ WARNING

Disconnect the motor from power to avoid accidental operation.

b. Locate the Socket Head Cap Screw on the bottom of the Control Head, between the Coil Cord and Shaft. Adjust this Screw to increase tension on the Lift Belt.

c. Using a 5/32" Allen Wrench, turn the Socket Head Cap Screw clockwise to tighten the Lift Belt. Tighten to 8–10 in-lb.



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Greasing the Tilt Shaft and Latch Pin

To maintain optimum performance of the Riptide Instinct QUEST, it is recommended that the Tilt Shaft and Latch Pin be greased every season. Minn Kota recommends using a marine-grade grease.

1

a. Deploy the motor. Once deployed, turn the motor off.

⚠ WARNING

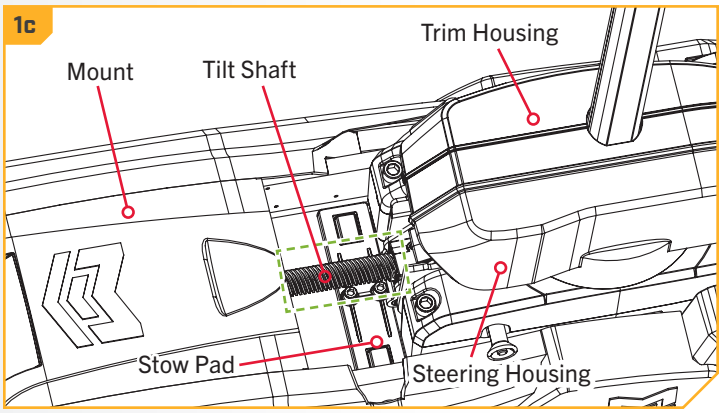
Disconnect the motor from power to avoid accidental operation.

b. Locate the Tilt Shaft near the center of the Mount, in the space between the Mount and Steering Housing.

c. Apply a marine-grade grease to the exposed threads of the Tilt Shaft. Apply the grease sparingly.

NOTICE: Ensure that the space between the Mount and Steering Housing is clean and free of debris. The Mount has a Stow Pad that contacts the Steering Housing when stowed. The motor cannot stow securely if an obstruction is present on the Stow Pad.

1c



⚠ CAUTION

When stowing and deploying the motor, keep fingers clear of all hinges, pivot points and all moving parts.

2

d. Reconnect power to the motor. Turn the motor “on.”

e. Stow the motor. Once stowed, turn the motor off.

⚠ WARNING

Disconnect the motor from power to avoid accidental operation.

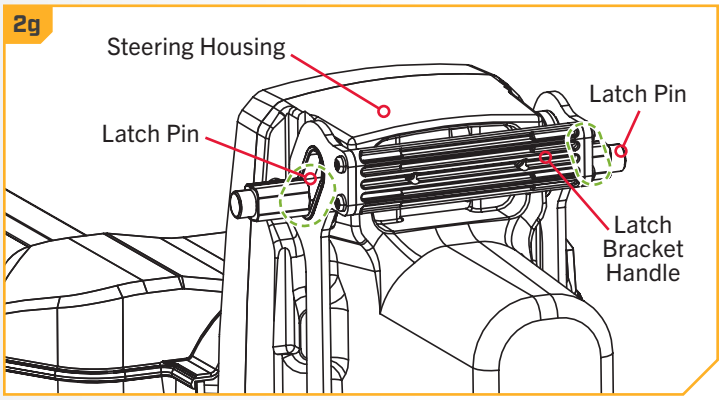
f. Locate the Latch Pin at the bottom of the Steering Housing. The Latch Pin is part of the Latch Bracket Handle.

g. Apply marine-grade grease to both ends of the Latch Pin to maintain optimal performance. Apply the grease sparingly to both ends of the Latch Pin where the Latch Pin contacts the Latch Bracket Handle.

⚠ CAUTION

Do not engage the Latch Bracket Handle while greasing the Latch Pin to avoid pinch points.

2g



⚠ CAUTION

When stowing and deploying the motor, keep fingers clear of all hinges, pivot points and all moving parts.

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Installing an External Transducer

An external transducer is not included with your trolling motor. An external transducer can be installed onto motors that have Advanced GPS Navigation. Installing an external transducer is not recommended for motors with Side Imaging Sonar.

1

a. Mount the External Transducer according to directions provided with the transducer.

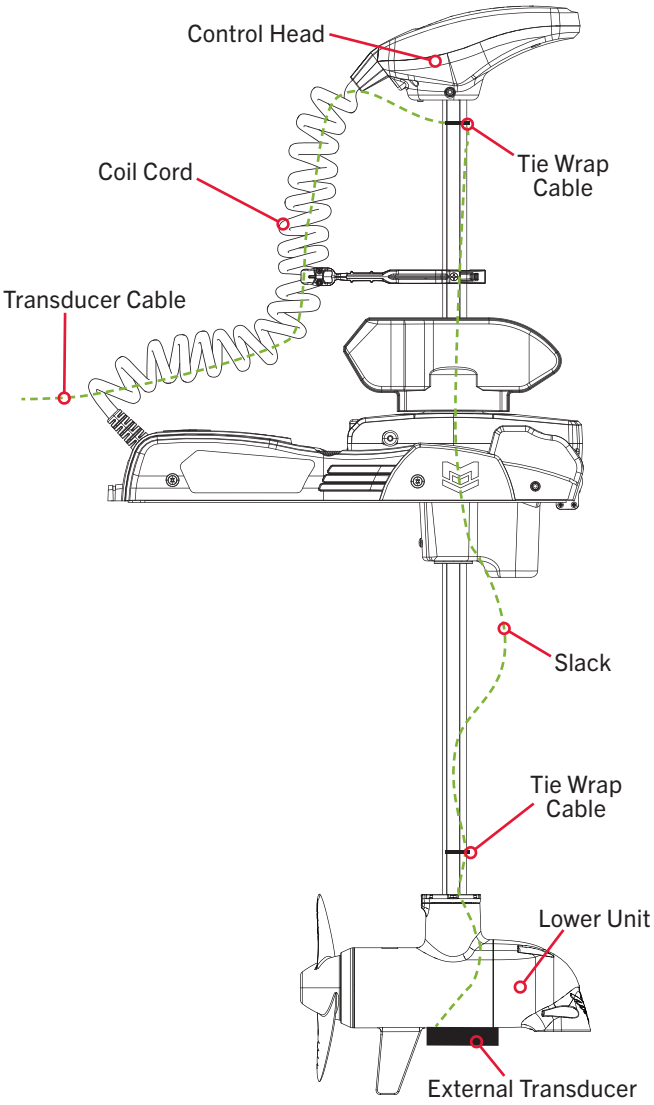
b. Leave enough slack in the Transducer Cable between the Lower Unit and Control Head to allow the motor to properly stow and deploy.

c. Use two tie wrap cables to secure the Transducer Cable to the Shaft just above the Lower Unit and just below the Control Head.

d. Run the Transducer Cable through the Coil Cord to the power supply.

⚠ CAUTION

Failure to follow the recommended wire routing for the Sonar and External Transducer Cables may cause damage to the product and void your product warranty. Take care to test the length and placement of all cables to ensure that there is enough slack where needed and that cables are free of entanglement by moving parts. Routing the cables in any way other than as directed may cause damage to the cables via pinching or severing.



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EMERGENCY STOW PROCEDURES ›

In the unlikely event that the motor will not stow from the Wireless Remote, Minn Kota Fishing App, or Foot Pedal, the following alternative stow methods can be used to resolve the issue.

NOTICE: If the motor stalls when attempting to stow, the motor may be encountering an error. Check for obstructions or low motor batteries. If the batteries are too low to fully stow the motor, re-engage power, deploy the motor, trim the lower unit to its highest setting, and turn power off until batteries can be recharged. Once batteries are charged, attempt to stow the motor again.

› Stowing from the Mount

In the unlikely event the Wireless Remote, Minn Kota Fishing App, or Foot Pedal becomes non-functioning, the motor can be stowed from the Indicator Panel at the base of the Mount.

1

⚠ WARNING

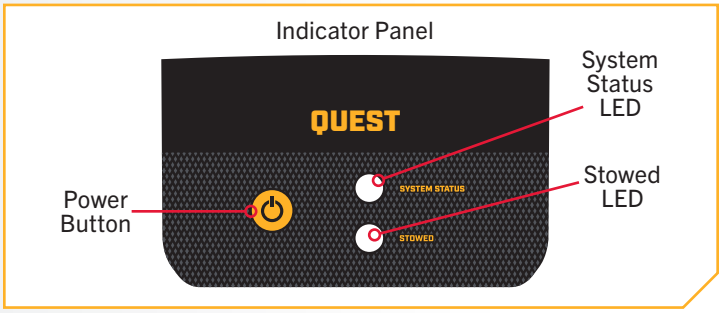
During this procedure, the motor will go into an automated sequence. Keep fingers clear of all hinges, pivot points and all moving parts. Ensure that the motor or parts of the motor do not contact the boat, trailer, persons, or any other obstruction.

a. Locate the Indicator Panel at the base of the Mount.

b. Ensure that the motor is powered "on" by checking that the System Status LED is illuminated blue.

c. Press and hold the Power button for 10 seconds.

d. The blue and orange LEDs next to the System Status (blue) and Stowed (orange) Indicators will flash alternately, and the motor will begin to stow.



MANUAL STOW BYPASS

If the motor loses power or will not stow by any other method, a Manual Stow Bypass procedure can be used to manually stow the motor. The Manual Stow Bypass involves two steps:

1. Manually Trim the Motor

2. Manually Stow the Motor

After completing both steps of the Manual Stow Bypass, return to shore and resolve the error or take the motor to a Minn Kota authorized service provider. Once the error has been resolved, see the "Manual Stow Bypass Recovery" section for instructions on restoring motor functions after an emergency stow.

Scan to find additional help.

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⚠ WARNING

While servicing the motor, stay clear of pinch points and do not wear loose-fitting clothing or loose-fitting jewelry.

⚠ CAUTION

Once the motor has been manually stowed, it will be non-operational until it is manually recovered.

NOTICE: In the event of a Manual Stow Bypass, the Quick Release Pin is removed from the Steering Housing. To reinstall the Quick Release Pin and restore motor functions, the Steering Housing must be in the same position it was in when the Quick Release Pin was removed. Incorrect installation of the Quick Release Pin may cause severe damage to the motor. See the "Manual Stow Bypass Recovery" section for more information.

Manually Trim the Motor

1

⚠ WARNING

Disconnect the motor from power to avoid accidental operation.

a. With the motor deployed, locate the Trim Release Lever on the side of the Trim Housing.

b. Firmly grasp the Shaft of the motor. While lifting up on the Shaft, open the Trim Release Lever.

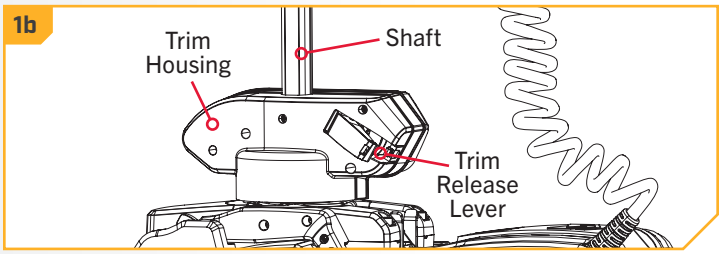
c. Manually trim the motor by pulling the Shaft upward. Stop lifting when there are approximately 10 inches of Shaft remaining below the Steering Housing.

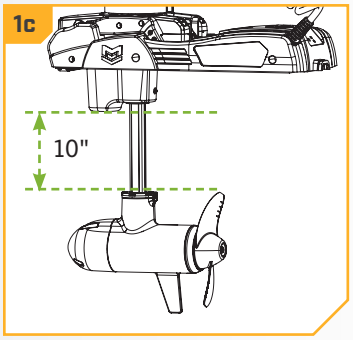
d. Rotate the Shaft so that the Prop faces Port. The Lower Unit should be perpendicular to the Mount.

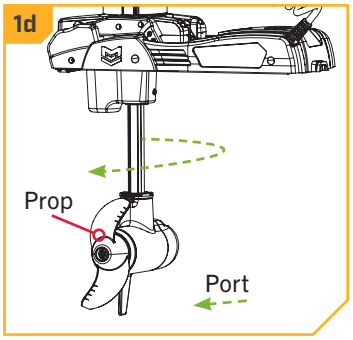
e. Close the Trim Release Lever to secure the Shaft in place.

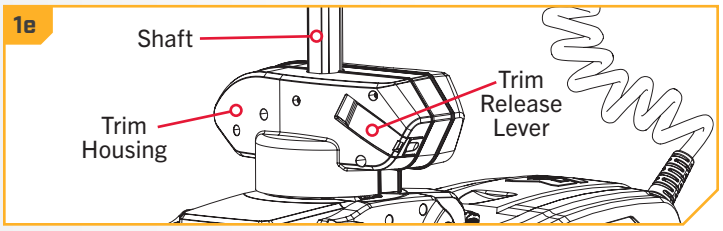
⚠ WARNING

Moving parts can cut or crush. When using the Trim Release Lever or moving the Shaft, keep fingers clear of all hinges, pivot points, and moving parts. Take care when mechanical parts are in motion.









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Manually Stow the Motor

1

NOTICE: Complete the Manual Trim before beginning this procedure.

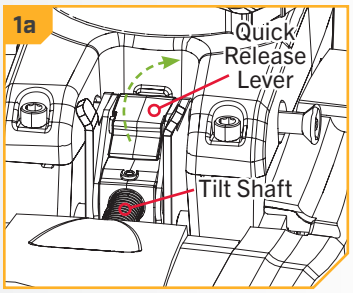
a. Locate the Quick Release Lever on the Steering Housing, above the Tilt Shaft near the center of the Mount. Open the Quick Release Lever by lifting upward.

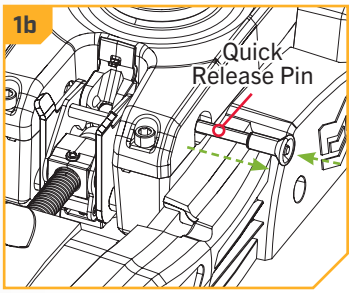
b. Locate the Quick Release Pin on the side of the Steering Housing. Push in the center of the Pin. While keeping the center of the Pin pushed in, pull the Pin completely out of the Steering Housing.

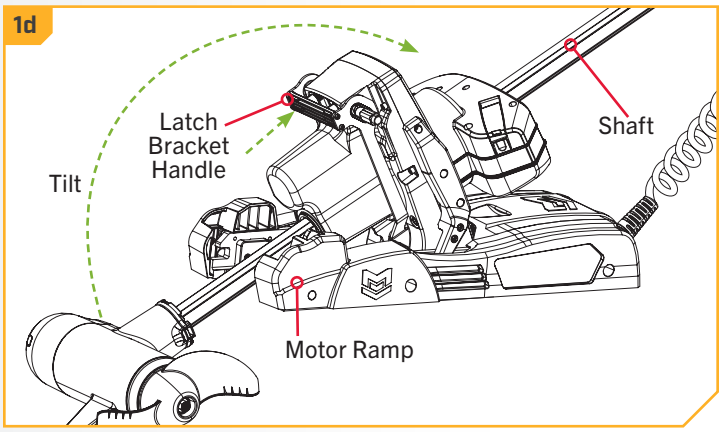
NOTICE: Do not lose the Quick Release Pin. The Motor cannot function without the Quick Release Pin.

c. Locate the Latch Bracket Handle on the back of the Steering Housing, near the Motor Ramps.

d. Firmly grasp the Shaft and raise the Latch Bracket Handle. While holding both the Shaft and Latch Bracket Handle, pivot the trolling motor into the stowed position.







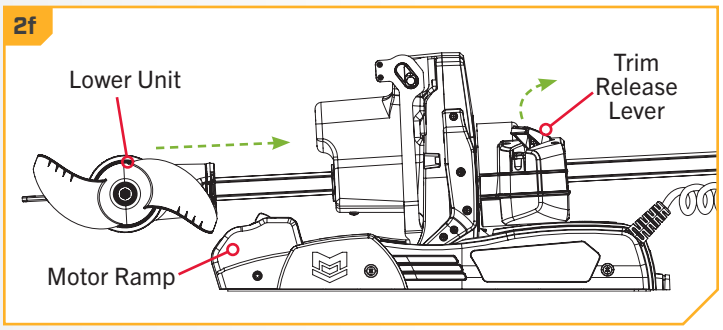
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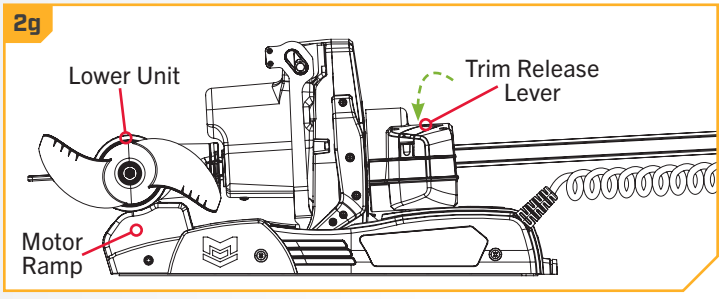
e. With the motor in the stowed position, release the Latch Bracket Handle while maintaining a hold on the Shaft.

f. Locate the Trim Release Lever on the side of the Trim Housing. While holding the Shaft, open the Trim Release Lever.

g. Pull the Lower Unit fully onto the Motor Ramps. Secure the lower unit on the Motor Ramps and close the Trim Release Lever to lock the motor in the stowed position.

NOTICE: Once on shore, take the motor to an Authorized Service Provider or use the Minn Kota Help Center at minnkota.johnsonoutdoors.com.





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MANUAL STOW BYPASS RECOVERY

After completing a Manual Stow Bypass, most motor functions are disabled, and an error will display on the Wireless Remote. If the error that required an emergency stow is resolved, motor operation can be restored through a Manual Stow Bypass Recovery procedure. To recover from a Manual Stow Bypass, the motor must be manually deployed and the Quick Release Pin reinstalled.

⚠ CAUTION

Once the motor has been manually stowed, it will be non-operational until the Manual Stow Bypass is recovered.

1

⚠ WARNING

Disconnect the motor from power to avoid accidental operation.

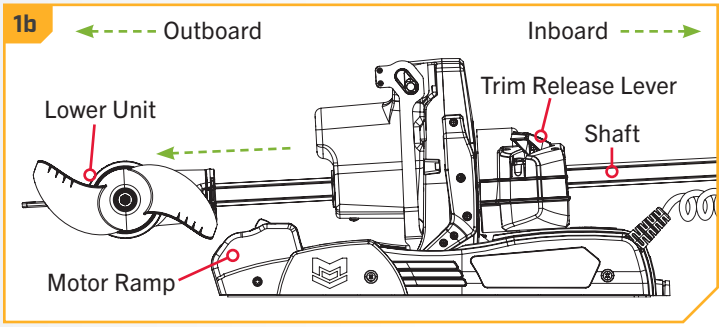
a. With the motor powered “off” and in the stowed position, locate the Trim Release Lever on the side of the Trim Housing. Firmly grasp the Shaft and open the Trim Release Lever.

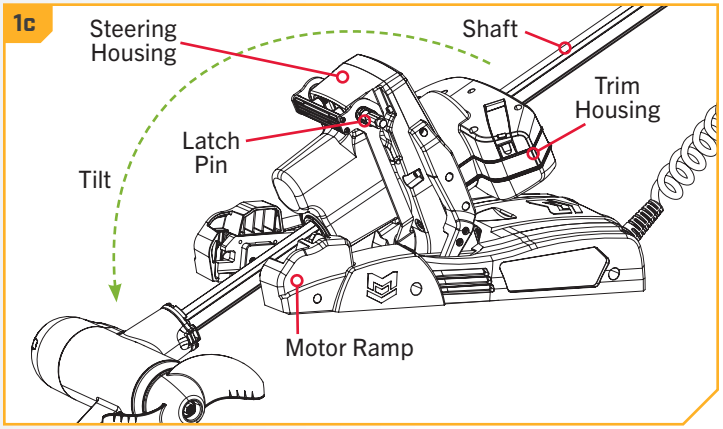
b. While holding the Shaft, slide the Lower Unit approximately 10 inches Outboard. Keep the Shaft horizontal to prevent the motor from tilting. When the Lower Unit is clear of the Motor Ramps, close the Trim Release Lever to lock the Shaft.

c. While holding the Shaft and Steering Housing, pivot the motor into the deployed position. Guide the motor upright until the Latch Pin fully engages with the Motor Ramps.

⚠ WARNING

Moving parts can cut or crush. Keep fingers clear of all hinges, pivot points, and moving parts when using the Trim Release Lever, moving the Shaft, or tilting the motor. Take care when mechanical parts are in motion.





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2

d. Take the Quick Release Pin that was removed during the Manual Stow Bypass.

e. Locate the hole for the Quick Release Pin on the Port side of the Steering Housing.

f. The Quick Release Pin must pass through four center plates between the Steering Housing to properly install. If the holes in the plates are not aligned, pull the Quick Release Lever to lift the plates. Realign the plates as needed to allow the Quick Release Pin to be completely inserted.

g. Press and hold in the center of the Quick Release Pin. While pressing the center of the Pin, insert the Quick Release Pin into the Steering Housing. Ensure that the Quick Release Pin passes through all four plates and into the other side of the Steering Housing. The Quick Release Pin is fully inserted when the handle is seated against the Steering Housing. The retaining ball in the Quick Release Pin must be visible past the final plate.

NOTICE: If the Quick Release Pin is installed incorrectly and does not capture all four plates, severe motor damage may occur.

h. With the Quick Release Pin fully inserted, lower the Quick Release Lever. Ensure the Lever is seated.

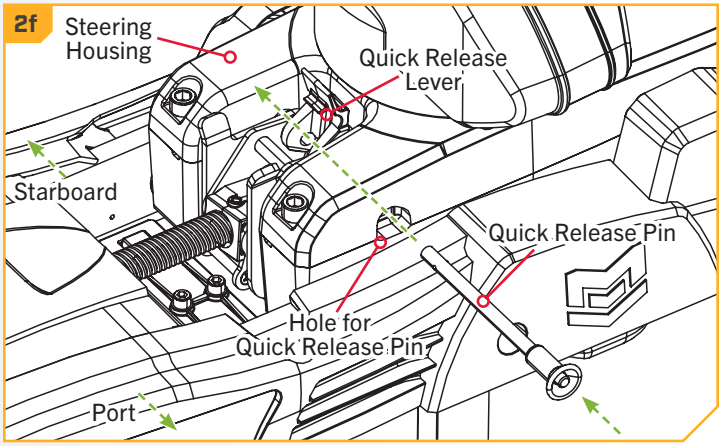
⚠ CAUTION

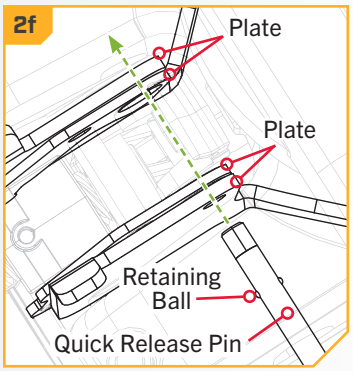
Watch for pinch points when closing the Quick Release Lever. Push on the back of the Quick Release Lever with an open palm to keep fingers clear of pinch points.

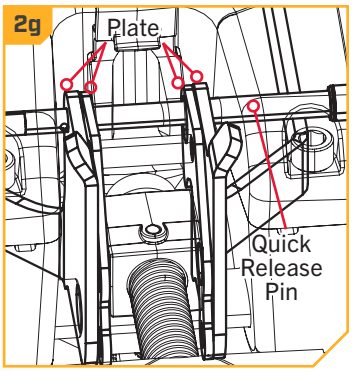
i. Reconnect the motor to power. Normal motor operation may resume.

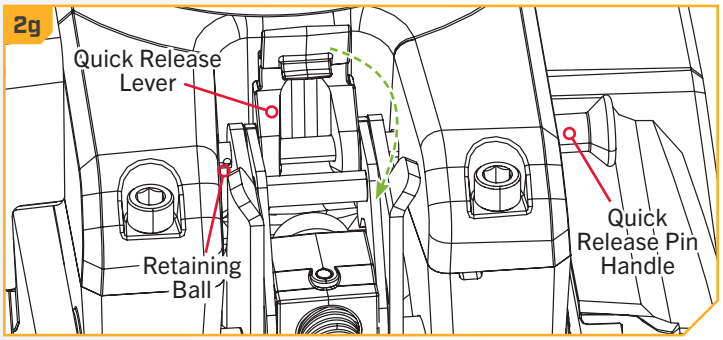
NOTICE: The Quick Release Pin must be fully inserted for the motor to function.

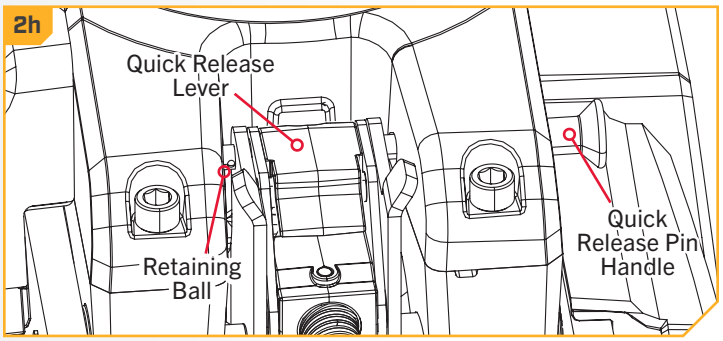
NOTICE: If the motor is nonfunctional after restoring power and reinstalling the Quick Release Pin, contact a Minn Kota authorized service provider.









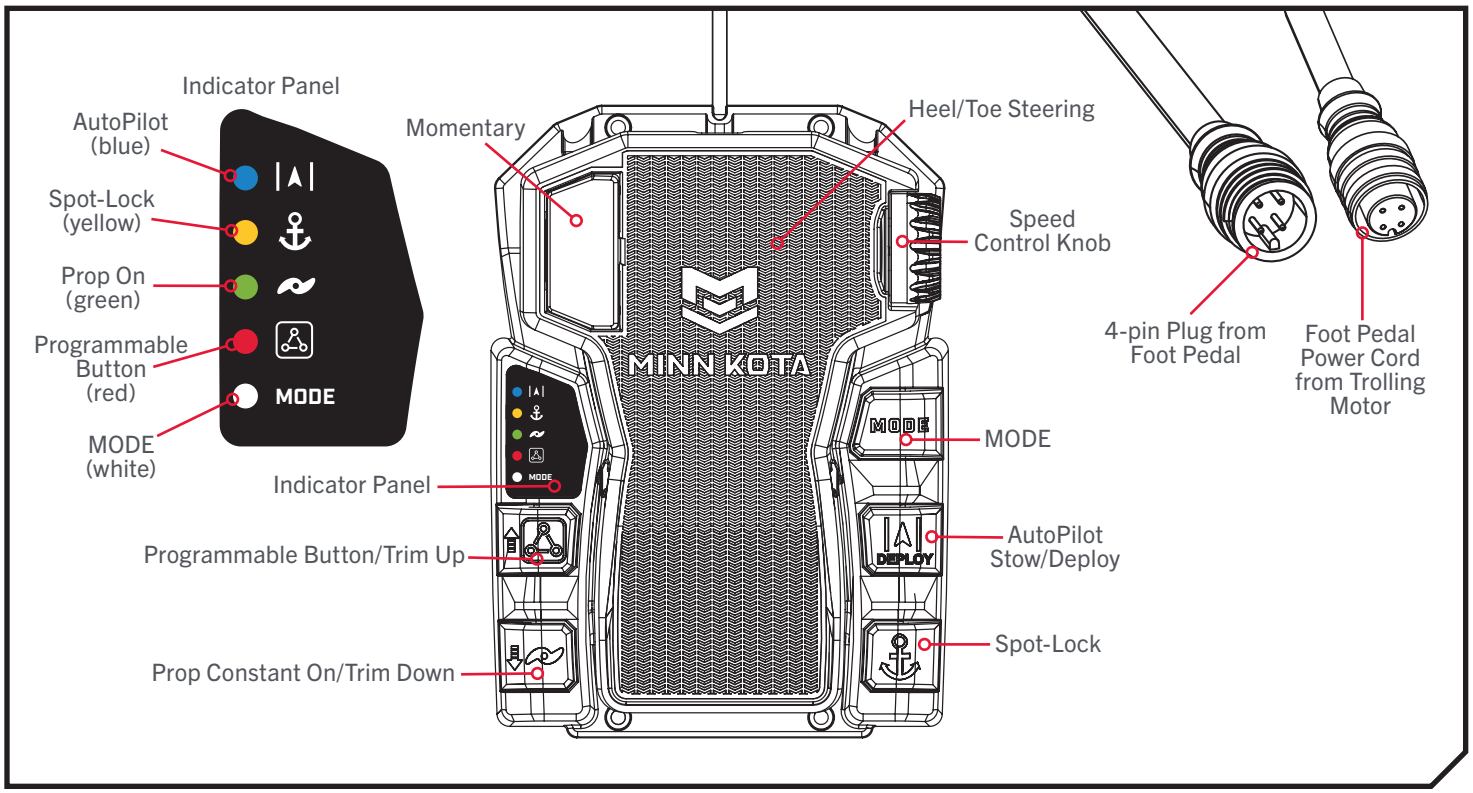


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USING THE FOOT PEDAL

CONTROLLING SPEED & STEERING WITH THE FOOT PEDAL

The Instant Response Foot Pedal is used to operate the Ulterra QUEST trolling motor with Advanced GPS Navigation. The Foot Pedal controls are easy to use. The function of the Programmable button on the Foot Pedal can be set using either the Advanced GPS navigation Wireless Remote or the Minn Kota Fishing App.



MODES

The Foot Pedal has two modes of operation: Normal Mode and Deployment Mode. To alternate between the Modes, press the MODE button located on the right side of the Foot Pedal, below the Speed Control Knob. The MODE ○ LED on the Indicator Panel illuminates white when Deployment Mode is engaged. The Indicator Panel is on the left side of the Foot Pedal. Switching between Modes alters the functions of three buttons on the Foot Pedal:

Normal Mode

In Normal Mode, the function of the buttons toggle to Programmable Button, Constant, and AutoPilot. The MODE ● LED on the Indicator Panel is not illuminated when the Foot Pedal is in Normal Mode.

Deployment Mode

In Deployment Mode, the function of the buttons toggle to Trim Up, Trim Down, and Stow/Deploy. The MODE ○ LED on the Indicator Panel is illuminated white during Deployment Mode.

Button	○ Normal Mode	● Deployment Mode
	Programmable Button	Trim Up
	Prop Constant On	Trim Down
DEPLOY	AutoPilot	Stow/Deploy

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FOOT PEDAL OPERATION

Motor Speed

The Speed Control Knob is above the MODE button on the right side of the Foot Pedal. Turn the Speed Control Knob forward to increase speed and backward to decrease speed. The Speed Control Knob can be set in a range from 0 to 10 and adjusted in both Normal and Deployment Mode. Trolling motor speed can also be adjusted using the Wireless Remote or Minn Kota Fishing App.

Heel/Toe Steering

Push the Toe-end of the Foot Pedal down to turn right and push the Heel-end down to turn left. The position and direction of the motor Control Head directly correspond to the motor position. During manual operation, use a foot to control the steering direction. The Heel/Toe steering is highly customizable and dependent on the trolling motor model, motor mounting location, Heading Offset or Keel Offset, foot pedal Neutral Position, and Resistance Mechanism. Heel/Toe Steering functions the same in Normal Mode and Deployment Mode.

⚠ CAUTION

For Ulterra trolling motors with an external heading sensor be careful to avoid over-wrapping the Coil Cord around the trolling motor Shaft. The steering system is designed to turn the trolling motor more than 360 degrees.

NOTICE: The motor will not auto correct to drive straight when it encounters an obstruction.

Trim Down/Trim Up

The Trim Down and Trim Up buttons are on the left side of the Foot Pedal. When the Foot Pedal is in Deployment Mode, the buttons trim the motor up and down. The MODE LED on the Indicator Panel illuminates white when the Foot Pedal is in Deployment Mode. The Trim Down button trims the motor down, and the Trim Up button trims the motor up.

Stow/Deploy

The Stow/Deploy button is on the right side of the Foot Pedal. It functions to stow and deploy the motor when the Foot Pedal is operating in Deployment Mode. The MODE LED on the Indicator Panel illuminates white when in Deployment Mode. Press the Stow/Deploy button to stow when the motor is deployed. Double-press the Stow/Deploy button to deploy when the motor is stowed. When stowing and deploying the motor, the operational function of the Foot Pedal and any paired remote is automatically disabled. While the motor is stowing or deploying, the Prop is also disabled.

⚠ WARNING

When trimming the motor, keep fingers clear of all hinges, pivot points, and all moving parts. When stowing and deploying the motor, ensure that it doesn't contact the boat, trailer, or any other obstruction.

⚠ WARNING

When stowing or deploying the motor, keep fingers clear of all hinges, pivot points and all moving parts. When stowing and deploying the motor, ensure that it doesn't contact the boat, trailer, or any other obstruction.

⚠ CAUTION

For safety reasons, disconnect the motor from the battery/batteries when the motor is not in use or while the battery/batteries are being charged. If the motor control is left on, and the Foot Pedal is accidentally engaged, and the Prop rotation is blocked, severe motor damage can result.

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FOOT PEDAL OPERATION

Momentary

In Momentary motor operation, the Prop will run while a downward force is applied to the Momentary button. The Momentary button is on the Toe-end of the Foot Pedal. Applying downward pressure to the Momentary button will turn the Prop "on." The motor will then run at the speed set by the Speed Control Knob. The prop speed set by the Speed Control Knob takes precedence over all other speed inputs from the Minn Kota Fishing App and Wireless Remote any time the Momentary button engages the Prop. Removing the downward force from the Momentary button will turn the Prop "off." The green Prop On LED on the Indicator Panel will illuminate while the Momentary button is engaged.

Constant

The Constant button is on the left side of the Foot Pedal, below the Programmable Button. It toggles the motor between Constant motor operation and Momentary motor operation when the foot Pedal is in Normal Mode. The green Prop On LED on the Indicator Panel illuminates when the motor is in Constant motor operation. In Constant motor operation, the Prop will continually run at the speed set by the Speed Control Knob, Wireless Remote, or Minn Kota Fishing App, even if there is no force to the Momentary button. The prop speed set by the Speed Control Knob takes precedence over all other speed inputs from the Minn Kota Fishing App and Wireless Remote when the Constant button engages the Prop.

AutoPilot

The AutoPilot button is on the right side of the Foot Pedal, below the MODE button. Pressing the AutoPilot button toggles AutoPilot on and off. The AUTOPILOT LED on the Indicator Panel illuminates blue when AutoPilot is engaged. The foot pedal does not change the AutoPilot mode (Locked Heading vs Locked Course). When AutoPilot engages from the Foot Pedal, the paired remote determines the default AutoPilot mode. AutoPilot can be engaged and disengaged using any paired remote or the Minn Kota Fishing App.

NOTICE: The motor will not auto correct to drive straight when it encounters an obstruction.

Programmable Button

The Programmable Button is on the left side of the Foot Pedal, below the Indicator Panel. It is a customizable button that may change functions based on user selection. Pressing the Programmable Button will activate the assigned function. The red Programmable Button LED on the Indicator Panel illuminates when this feature is engaged. Each function has a different LED pattern. By default, the Programmable button has no function. Review the "Programmable Buttons" section of this manual to learn more.

⚠ WARNING

When transporting the motor, it is important to always stow the motor and make sure it is secured in place. A secure stow holds the motor in place during transportation when it is subject to high levels of shock and vibration. Failure to stow the motor may result in injury or damage to the unit.

⚠ CAUTION

If the Prop encounters an obstruction while in Momentary or Constant motor operation while running, the increased electrical current generated by the obstruction will signal the motor to decrease the power to the Prop in order to prevent damage.

⚠ WARNING

Practice proper ergonomics when operating the foot pedal to prevent injury. Be aware of the environment at all times and use proper body positioning as required to ensure proper balance and safe operation.

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Spot-Lock

The Spot-Lock button is on the bottom-right side of the Foot Pedal and labeled with an anchor symbol. When pressing the Spot-Lock button, the location of the motor records to a temporary Spot-Lock location. To engage Spot-Lock, press the Spot-Lock button. To disengage, press the Spot-Lock button again. The yellow SPOT-LOCK LED on the Indicator Panel illuminates when Spot-Lock engages. Spot-Lock can be engaged in Normal Mode and Deployment Mode, and switching between Modes does not cancel Spot-Lock.

When engaging Spot-Lock, the trolling motor Control Head emits a tone. When disengaging Spot-Lock with the Spot-Lock button, no tone emits. Steering the motor or adjusting the motor speed will cancel Spot-Lock, and a tone consisting of several short beeps emits from the Control Head. The Wireless Remote and Minn Kota Fishing App provides additional Spot-Lock controls for the trolling motor, such as Spot-Lock Jog.

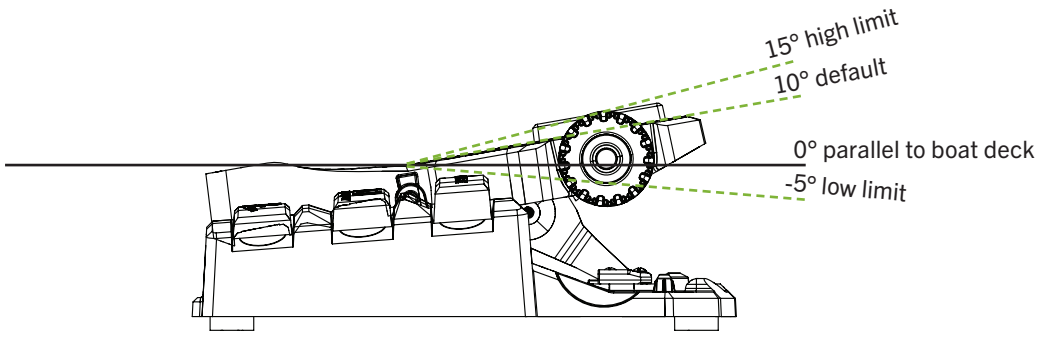
NOTICE: In the default Audio Mode, a tone emits from the Control Head when Spot-Lock is engaged. When the Audio Mode is set to Alarm Only, a tone does not emit when engaging Spot-Lock. To learn more about Audio Modes, refer to the Wireless Remote Owner's Manual online at minnkota.johnsonoutdoors.com.

NEUTRAL POSITION

When the foot pedal is in the Neutral Position, the trolling motor steers straight with the Heading Offset for Ulterra motors or the Keel Mount Offset for Ulterra QUEST and Riptide Instinct QUEST trolling motors. By default, the Neutral Position sets the Toe-end of the pedal at ten degrees (10°) up from the boat deck. To accommodate for proper ergonomics, the Neutral Position of the Foot Pedal is adjustable. The Toe-end of the Foot Pedal has a high limit of fifteen degrees (15°) and a low limit of negative five degrees (-5°). To adjust the Neutral Position, please see the Service & Maintenance section of the manual.

Neutral Position	Toe-end
High Limit	15°
Default	10°
Low Limit	-5°

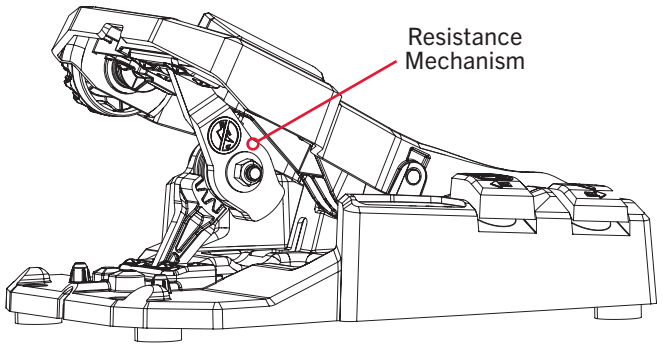
NOTICE: The trolling motor may have more significant steering movements to the left or right of the keel from a foot pedal manual steering input. The steering speed varies based on Keel Offset and the set Neutral Position.



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FOOT PEDAL RESISTANCE

The Instant Response Foot Pedal contains a Resistance Mechanism under the toe-end of the Foot Pedal, creating tension. The tension of the Resistance Mechanism is pre-set at the factory. The Resistance Mechanism controls the force needed to steer the foot pedal. High resistance does not correlate to slower steering, and lower resistance does not result in faster steering. Through regular use or personal preferences, the Resistance Mechanism may need occasional adjustments. Review the information in the Service & Maintenance section of this manual to adjust the Resistance Mechanism.



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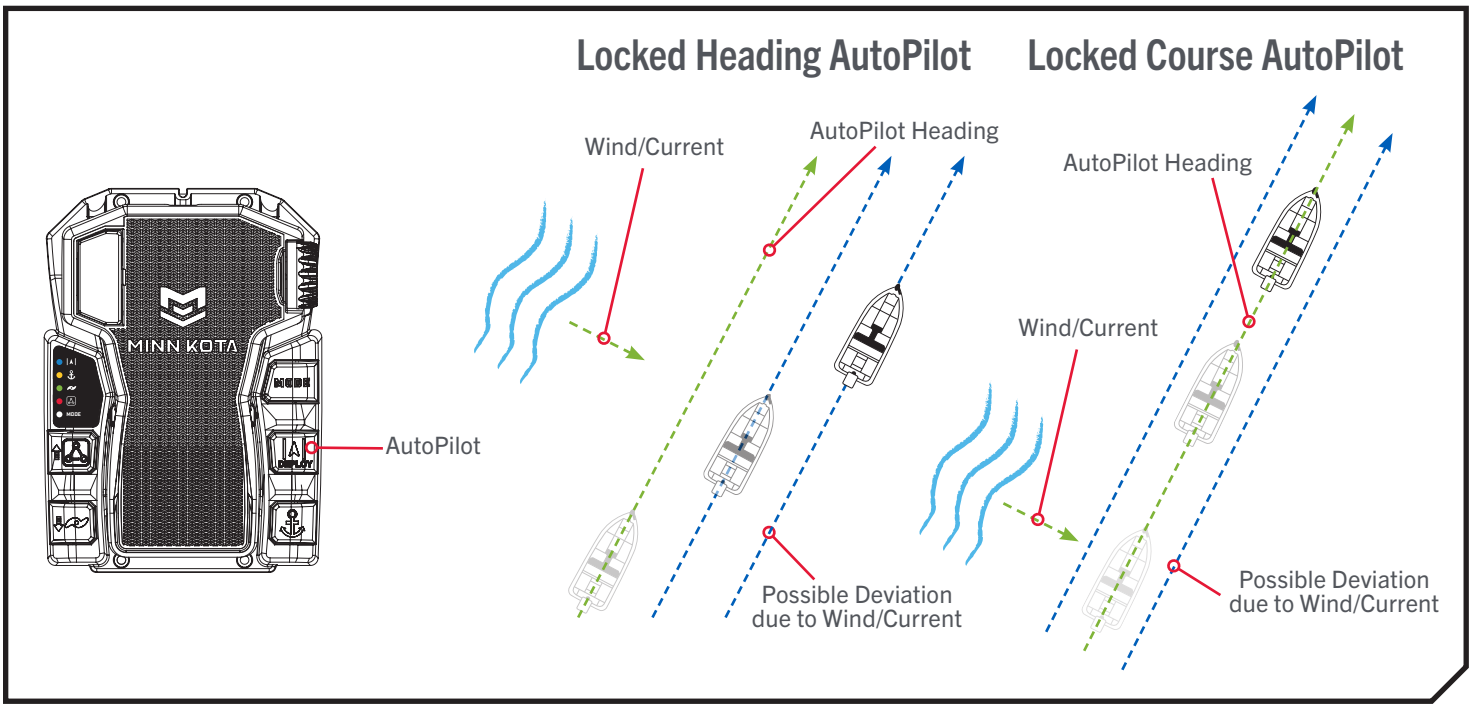
AUTOPILOT

AUTOPILOT AND THE PROGRAMMABLE BUTTON

AutoPilot on the Advanced GPS Navigation System uses an internal compass to keep the trolling motor pointed in the same compass direction. The AutoPilot button is a dual-function button and engages and disengages AutoPilot when Deployment Mode is turned "off". Press the MODE button to engage and disengage Deployment Mode. Deployment Mode is "off" when the white MODE ● LED is not illuminated.

AUTOPILOT MODES

Two different modes of AutoPilot are available: Locked Heading AutoPilot and Locked Course AutoPilot, both called AutoPilot. There are distinct differences between the two AutoPilot Modes and how they control the boat. Locked Heading and Locked Course AutoPilot are valuable tools anglers can use for accurate and precise bait presentation. Minn Kota highly recommends getting on the water and trying both Locked Heading AutoPilot and Locked Course AutoPilot in various fishing situations and applications. Set the AutoPilot mode using the Advanced GPS Navigation Wireless Remote or the Minn Kota Fishing App.



Locked Heading AutoPilot

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

Locked Course AutoPilot

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

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⚠ CAUTION

This unit uses a magnetic compass to detect the direction of travel. Magnets or large, ferrous metal objects near (within 12” of) the trolling motor control head can adversely affect the compass.

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

The trolling motor has an automatic steering shutdown for safety. The automatic steering may stop when an obstruction prevents the trolling motor from turning or in extremely windy conditions. Any steering input will reset the system to normal.

Toggle AutoPilot On/Off

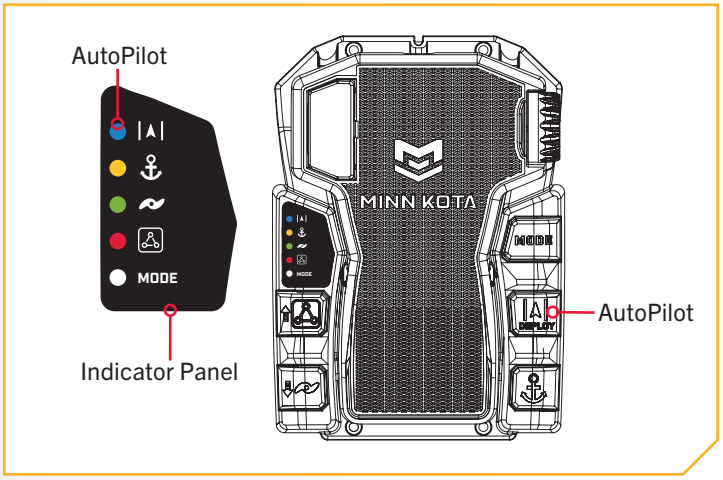
1

a. With Deployment Mode “off” and the motor running, toggle the AutoPilot DEPLOY button on the Foot Pedal to turn AutoPilot “on”.

b. The blue AutoPilot LED on the Indicator Panel illuminates when AutoPilot is engaged. While AutoPilot is on, steer the trolling motor as desired.

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

c. To turn AutoPilot “off,” toggle the AutoPilot DEPLOY button.



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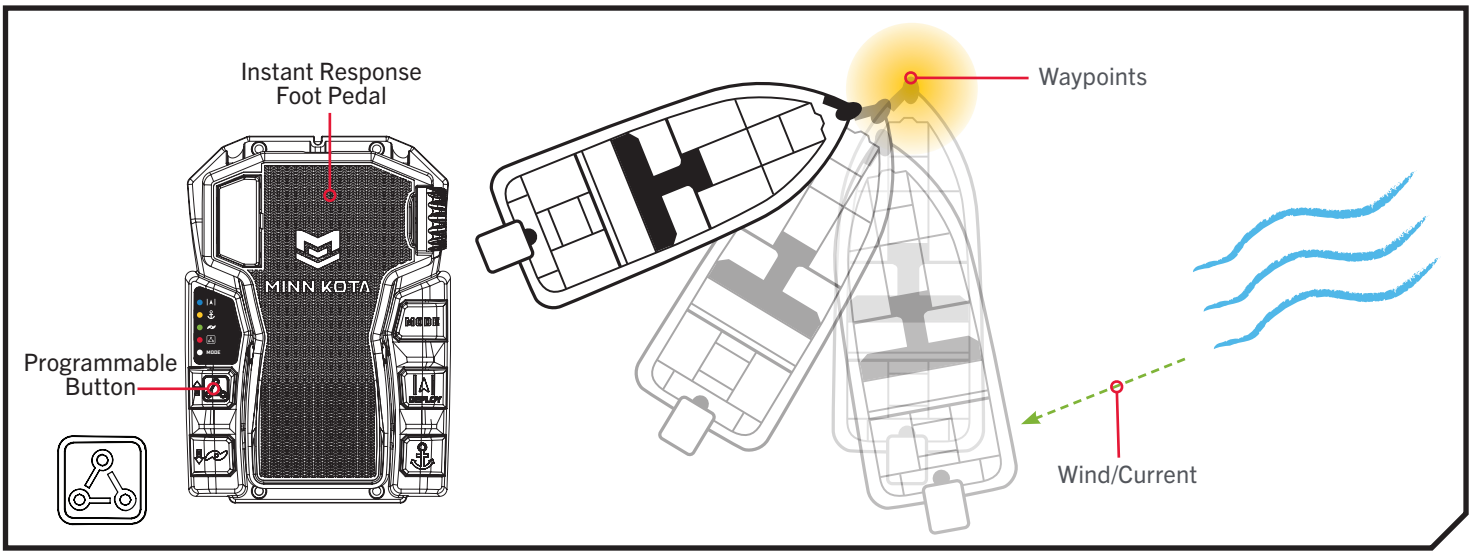
WAYPOINTS

WAYPOINTS AND THE PROGRAMMABLE BUTTON

Waypoints are saved latitude/longitude positions. They mark a position of interest, such as favorite fishing areas, structures, or marker buoys. Waypoints work similarly to Spot-Locks. If the Programmable button on the Foot Pedal is customized to the Waypoint function, the button will mark Waypoints in the Advanced GPS Navigation System when pressed. For more information on working with Waypoints, please see the Advanced GPS Navigation System or Humminbird owner's manual.

⚠ WARNING

Watch for a turning Prop when working with Waypoints. Auto Prop On is set to "off" by default on the Advanced GPS Navigation System. If Auto Prop On is turned "on," the Prop will automatically turn on when a Waypoint is engaged, even if the engagement is accidental. A turning prop can cause injury. If Auto Prop On is turned "off," the Prop must be enabled before the boat will begin navigating to a Waypoint.

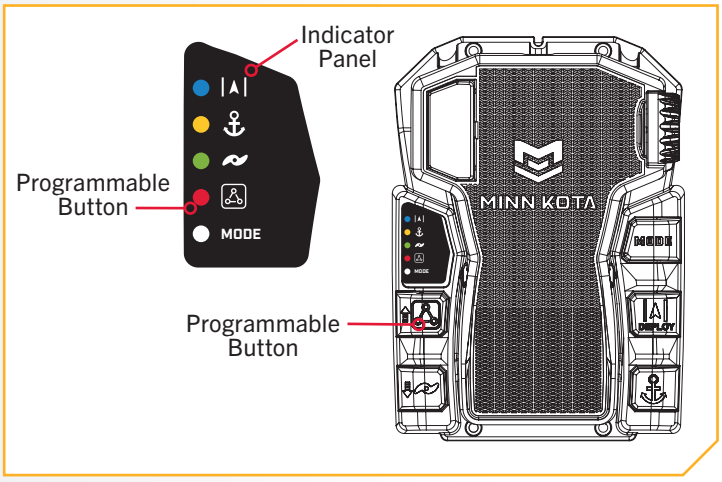


Mark a WayPoint

1

a. While the trolling motor is running, mark a Waypoint by pressing the Programmable button. The red Programmable Botton LED on the Indicator Panel will briefly illuminate and then turn off to indicate a Waypoint is marked.

NOTICE: The Programmable Button is a dual-function button and performs the assigned function when Deployment Mode is turned "off". Press the MODE button to engage and disengage Deployment Mode. Deployment Mode is "off" when the white MODE LED is not illuminated. Refer to the "Programmable Button" section of these instructions to learn how to customize the function of the Programmable Button on the Foot Pedal.



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SHALLOW WATER ANCHOR

SHALLOW WATER ANCHOR CONTROL AND THE PROGRAMMABLE BUTTON

The Programmable Button allows for control of a Shallow Water Anchor (SWA) when an anchor is paired with the Advanced GPS Navigation Bluetooth Network. SWAs that can pair with the Advanced GPS Navigation system include the Minn Kota Raptor and Talon with Bluetooth. For more information on how to pair the SWA with the Advanced GPS Navigation system, please see the SWA owner's manual.

When two Raptors or two Talons are paired together, the anchor selected and controlled by the Foot Pedal can be Port, Starboard, or both. To change the selected anchor, use the remote or app paired with the Shallow Water Anchor.

NOTICE: The Programmable Button is a dual-function button and performs the assigned function when Deployment Mode is turned "off". Press the MODE button to engage and disengage Deployment Mode. Deployment Mode is "off" when the white MODE ○ LED is not illuminated. Refer to the "Programmable Button" section of these instructions to learn how to customize the function of the Programmable Button on the Foot Pedal.

⚠ WARNING

Ensure the Raptor/Talon is clear of obstructions and persons while deploying or retracting. Take care that neither you nor other persons approach the Raptor/Talon too closely while operating neither with body parts nor objects. The Raptor/Talon is powerful and may endanger or injure you or others. While the Raptor/Talon is operating, watch out for persons swimming and for floating objects. Persons who lack the ability to run the Raptor/Talon or whose reactions are impaired by alcohol, drugs, medication, or other substances are not permitted to use this product.

⚠ CAUTION

The Talon is equipped with a Deployment Notification Alarm, which is required to comply with warranty requirements. When the Alarm is properly installed, it will sound when the ignition key is turned on, and the Talon is not fully retracted. A deployed Talon may affect boat control. Take note of the Alarm, and always watch to ensure the Talon is fully retracted while the boat is operating.

⚠ CAUTION

The spaces between the Outer Arm, Inner Arm, Spike, and brackets of the Raptor can create a pinch point. Do not contact any area of the Raptor that may cause a pinch point while it is moving in any direction to avoid the risk.

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Deploy the Shallow Water Anchor

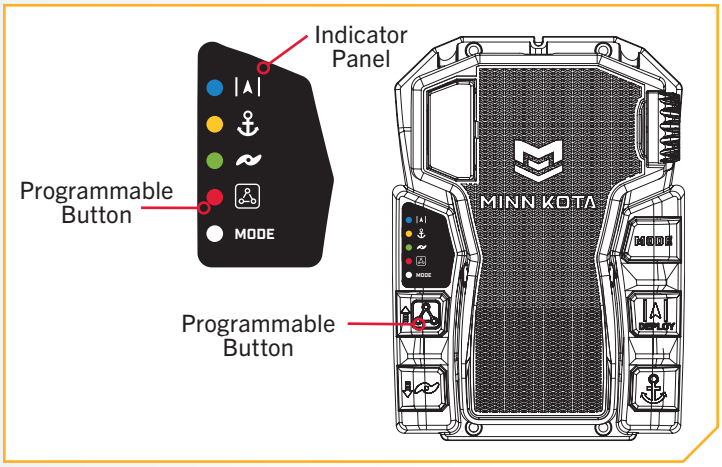
1

a. Ensure the Shallow Water Anchor (Raptor/Talon) is powered “on” and paired to the trolling motor.

b. With Deployment Mode “off”, double-press the Programmable button on the Foot Pedal to deploy the Raptor/Talon.

NOTICE: The Programmable Button does not need to be held to keep the Raptor/Talon deploying. When the button is double-pressed, the Raptor/Talon will automatically continue to deploy until it has reached its full deployment and received input to stop or anchor.

c. The red Programmable Button LED on the Indicator Panel flashes steadily when the anchor deploys and stays on when the anchor is in any state of deployment.



NOTICE: While the Raptor/Talon deploys, pause the action by pressing the Programmable Button on the Foot Pedal.

Retract the Shallow Water Anchor

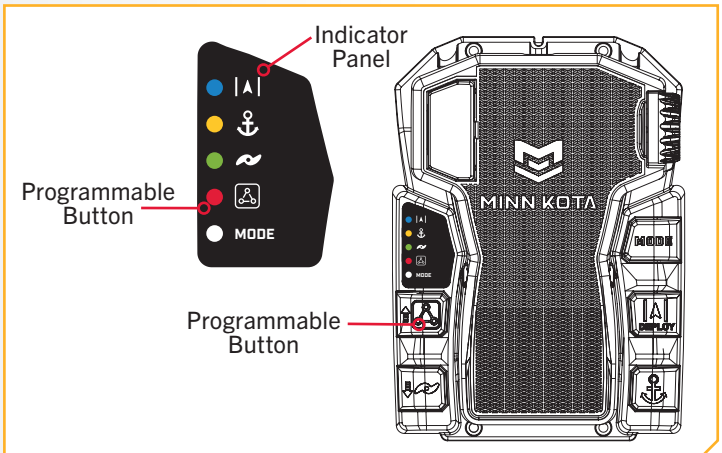
1

a. Ensure the Shallow Water Anchor (Raptor/Talon) is powered “on” and paired to the trolling motor.

b. With Deployment Mode “off”, press the Programmable Button on the Foot Pedal to retract the Raptor/Talon.

NOTICE: While the Raptor/Talon retracts, pause the action by pressing the Programmable Button on the Foot Pedal.

c. The red Programmable Button LED on the Indicator Panel flashes steadily when the anchor retracts and stays on when the anchor is in any state of deployment.



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SPOT-LOCK

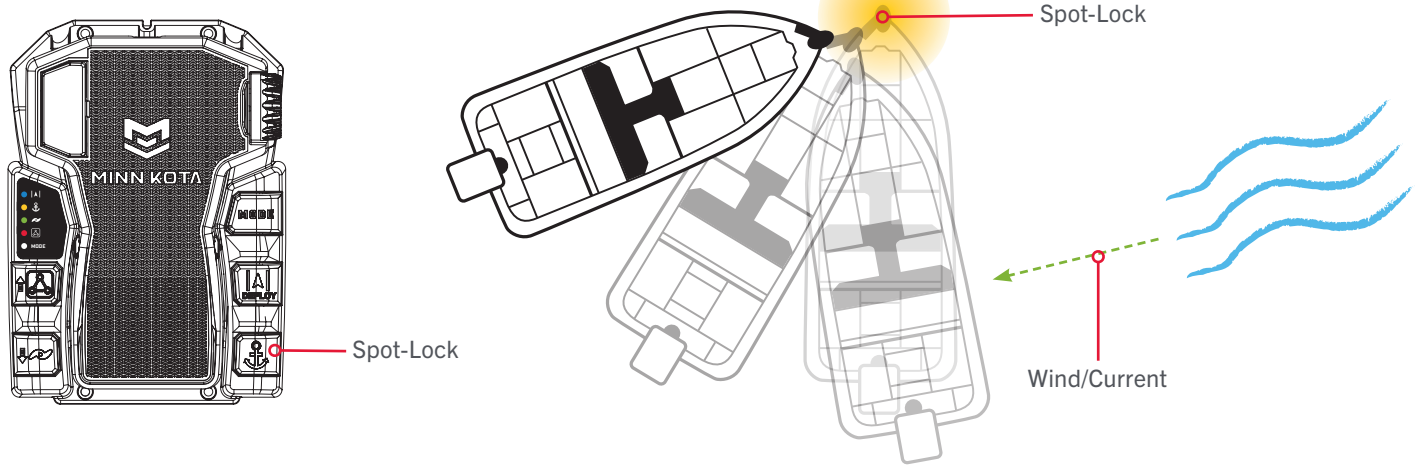
HOW SPOT-LOCK WORKS

Spot-Lock uses a single point of reference that is recorded when the Spot-Lock button is pressed. The reference point is a set of GPS coordinates captured at the location of the trolling motor at the moment the button is pressed. This point is recorded and can be saved into one of the Spot-Lock memory locations. Spot-Lock works by recognizing the GPS coordinates and will automatically navigate the boat to keep it at the Spot-Lock location. If the motor recognizes it is not positioned at the Spot-Lock location, it will control motor speed and direction in an attempt to keep the motor on the Spot-Lock. For instructions on using Spot-Lock, refer to the Wireless Remote owner's manual online at minnkota.johnsonoutdoors.com.

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

⚠ WARNING

Watch for a turning Prop when working with Spot-Lock. The Prop will automatically turn on when Spot-Lock is engaged, even if the engagement is accidental. A turning Prop can cause injury. The Prop will turn "on" for Spot-Lock, regardless of the Prop Auto On setting used on the other control methods in the Advanced GPS Navigation System.



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Toggle Spot-Lock On/Off

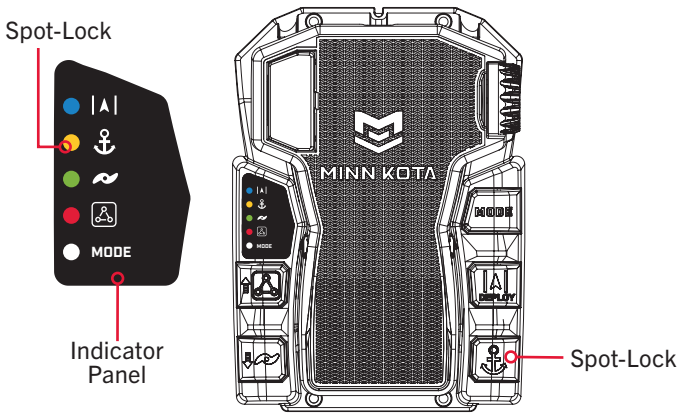
1

a. While the motor is running, Spot-Lock can be turned on by pressing the Spot-Lock button located on the Foot Pedal. The yellow SPOT-LOCK LED on the Indicator Panel is illuminated when Spot-Lock is engaged.

NOTICE: In the default Audio Mode, a tone is emitted from the Control Head when Spot-Lock is engaged. If the Audio Mode is set to Alarm Only, a tone will not be emitted when engaging Spot-Lock. To learn more about Audio Modes, refer to the Wireless Remote owner's manual online at minnkota.johnsonoutdoors.com.

b. To disengage Spot-Lock when engaged, press the Spot-Lock button again, or press any button on the Foot Pedal to manually steer the trolling motor.

NOTICE: Adjusting the Prop speed or manually steering the motor will disengage Spot-Lock, and an error tone consisting of several short beeps will emit from the Control Head. Manually steering or adjusting the Prop speed with the Wireless Remote or Minn Kota Fishing App will also cancel Spot-Lock.



NOTICE: If the Spot-Lock button is accidentally pressed, press the Spot-Lock button again to cancel Spot-Lock.

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SERVICE & MAINTENANCE

PROP REPLACEMENT

TOOLS AND RESOURCES REQUIRED ❱

- 9/16” Deep Well Socket

INSTALLATION ❱

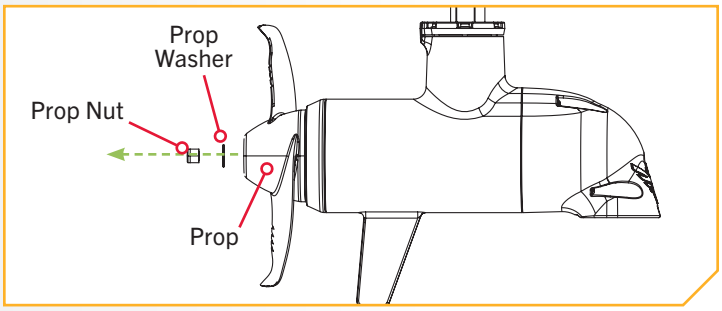
1

⚠ CAUTION

Disconnect the motor from all sources of power before beginning any prop work or maintenance.

a. Hold the Prop and loosen the Prop Nut with a 9/16" Deep Well Socket.

b. Remove the Prop Nut and Prop Washer.



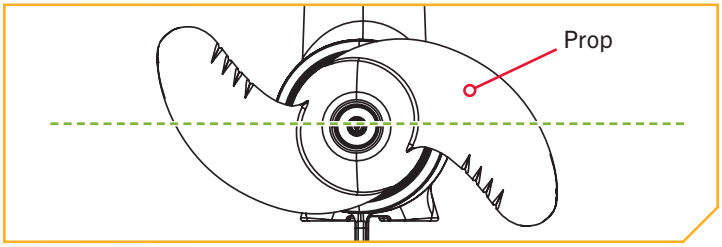
NOTICE: If the Drive Pin is sheared or broken, hold the Armature Shaft stationary with a Flat-Blade Screwdriver by pressing into the slot on the end of the shaft while loosening the Prop Nut.

2

c. Turn the old Prop so it is horizontal and pull it straight off. If the Drive Pin falls out, push it back in.

⚠ CAUTION

If the Prop does not readily slide off, take care not to bend the Armature Shaft. Pull the Prop evenly off the Armature Shaft.



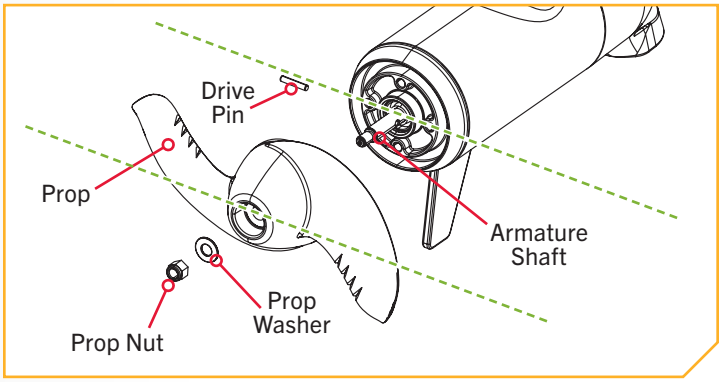
3

d. Align the new Prop so it is horizontal and parallel with the Drive Pin. Slide the Prop onto the Armature Shaft and Drive Pin until it is seated against the lower unit.

e. Reinstall the Prop Washer and Prop Nut onto the end of the Armature Shaft. While holding the Prop horizontal, tighten the Prop Nut with a 9/16" Deep Well Socket. Tighten the Prop Nut to 25-35 in-lb.

⚠ CAUTION

Do not over-tighten as this can damage the Prop.



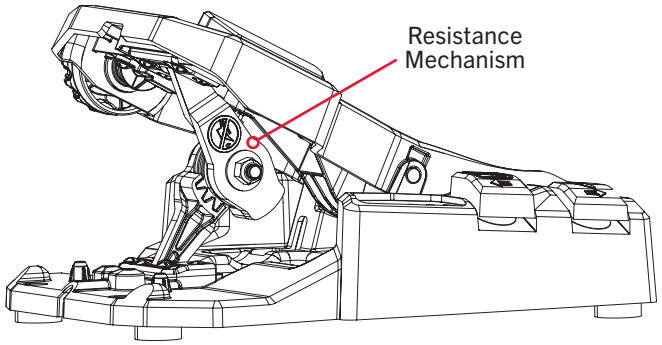
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⚠ CAUTION

Always wear safety glasses and gloves. Disconnect all power to the Minn Kota product before beginning any work or maintenance. Johnson Outdoors Marine Electronics, Inc. is not responsible for any damage due to improper rigging or installation. If you do not have the skills, experience, and tools to perform the listed operations, seek the help of a certified marine installer.

ADJUSTING THE FOOT PEDAL RESISTANCE

The Instant Response Foot Pedal contains a Resistance Mechanism under the toe-end of the Foot Pedal, creating tension. The tension of the Resistance Mechanism is pre-set at the factory but, through normal use or personal preference, may need occasional adjustments. The Resistance Mechanism controls the amount of force needed to steer the foot pedal. Having a high resistance will not correlate to slower steering and having a lower resistance will not result in faster steering. The adjustment is available to accommodate personal preference and allow maintenance from regular use. Review the following guidelines when servicing the Resistance Mechanism:



1. Do not lubricate the Resistance Mechanism.
2. Do not use high-speed tools to adjust the Resistance Mechanism. Adjust the Resistance Mechanism using hand tools only.
3. Do not over-loosen the Resistance Mechanism. The Resistance Mechanism is too loose if the washers within the mechanism jiggle, the Foot Pedal cannot hold its position, the foot pedal rotation amplifies with light or little steering pressure, or the top of the Foot Pedal falls forward. Making the Resistance Mechanism too loose may damage the Foot Pedal.
4. Do not overtighten the Resistance Mechanism. The Resistance Mechanism is too tight if the washers are flat, the Foot Pedal is too difficult to steer, or the top of the Foot Pedal will not move. Aggressively steering the Foot Pedal or setting the Resistance Mechanism so tight that a stomping force is required to turn it is not recommended and may damage the product. Making the Resistance Mechanism too tight may damage the Foot Pedal.

NOTICE: The steering motor has a top speed. If the Resistance Mechanism lacks adequate friction, the top speed of the steering motor is slower than the top speed of the Foot Pedal, and the trolling motor may not turn as fast as the Instant Response Foot Pedal. Tighten the Resistance Mechanism to avoid the steering speed difference.

⚠ CAUTION

Watch for pinch points. The Resistance Mechanism and space between the top and bottom of the Foot Pedal can create a pinch point when operating the Foot Pedal. To avoid pinch points, keep fingers clear of the Foot Pedal during operation. The Foot Pedal is not a toy. Keep children and fingers away from the Foot Pedal while performing maintenance work and operating it.

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ADJUSTING THE FOOT PEDAL RESISTANCE

TOOLS & RESOURCES REQUIRED

- 1/2” Crescent Wrench
- 7/16” Allen Wrench

INSTALLATION

1

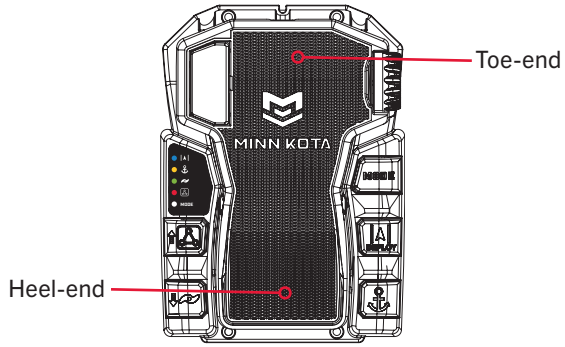
a. Ensure the motor is powered “off”.

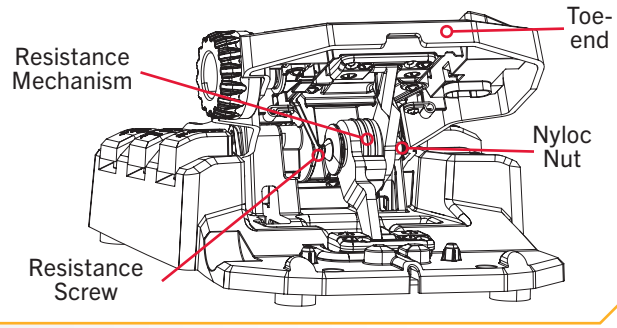
b. Press the Heel-end of the Foot Pedal down.

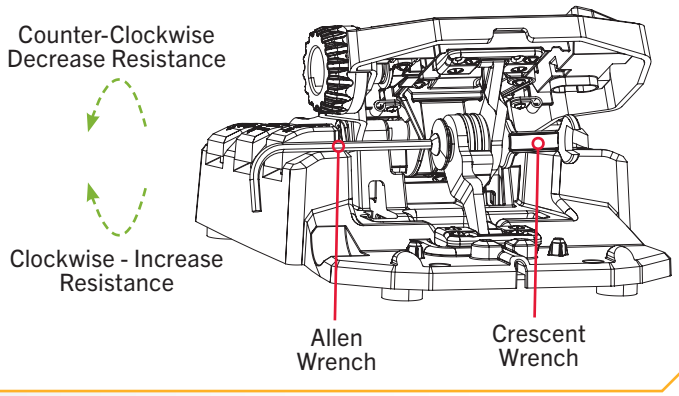
c. Locate the Resistance Mechanism under the Toe-end of the Foot Pedal. It sits between the top and bottom of the Foot Pedal.

d. While holding the Nyloc Nut with a 1/2” Crescent Wrench, use a 7/16” Allen Key to adjust the Resistance Screw. To increase resistance, turn the Screw clockwise. To decrease resistance, turn the Screw counterclockwise.

e. Ensure that there are no tools or persons near the Foot Pedal. Test the Resistance Mechanism. Adjust as needed for the desired resistance setting.







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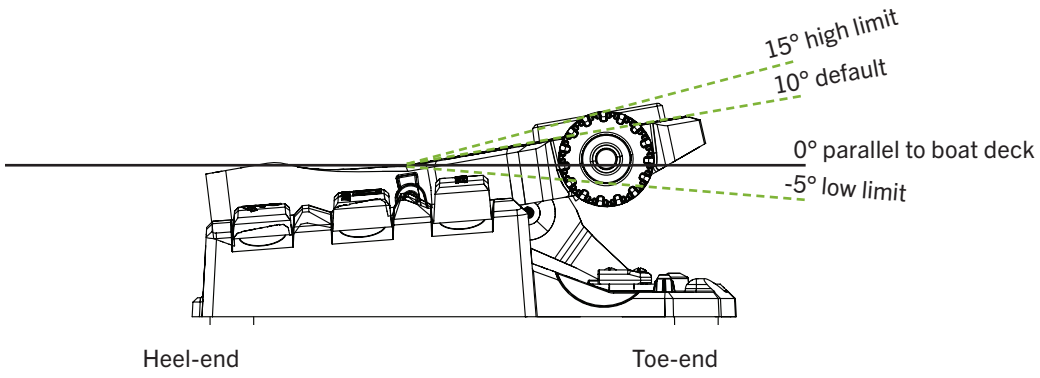
ADJUSTING THE NEUTRAL POSITION

When the foot pedal is in the Neutral Position, the trolling motor steers straight with the Heading Offset for Ulterra motors or the Keel Mount Offset for Ulterra QUEST and Riptide Instinct QUEST trolling motors. By default, the Neutral Position sets the Toe-end of the pedal at ten degrees (10°) up from the boat deck. To accommodate for proper ergonomics, the Neutral Position of the Foot Pedal is adjustable. The Toe-end of the Foot Pedal has a high limit of fifteen degrees (15°) and a low limit of negative five degrees (-5°). Adjust the Neutral Position based on user preference.

Neutral Position	Toe-end
High Limit	15°
Default	10°
Low Limit	-5°

NOTICE: The trolling motor may have more significant steering movements to the left or right of the keel from a foot pedal manual steering input. The steering speed varies based on Keel Offset and the set Neutral Position.

When adjusting the Neutral Position, the foot pedal must be in the desired position when the process begins. To reset the Neutral Position to the factory default, allow the calibration to fail by adjusting the tilt angle of the Foot Pedal outside of the allowable limits. Failing the calibration will restore the default Neutral Position.



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a. Ensure the trolling motor is powered “off”.

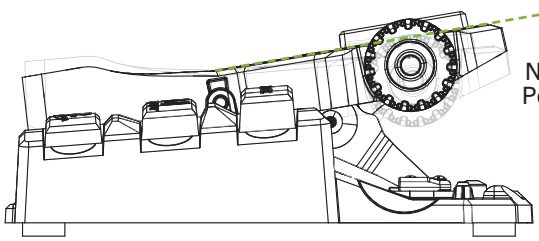
b. Tilt the Toe-end of the Foot Pedal to the desired Neutral Position.

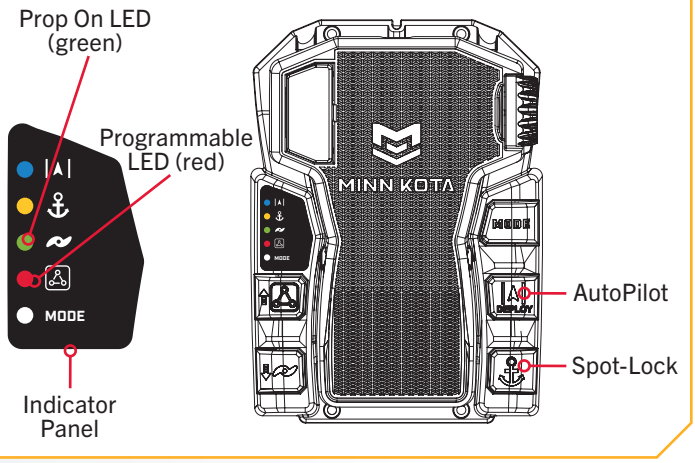
c. Press and hold the AutoPilot and Spot-Lock buttons on the Foot Pedal. While holding the buttons down, power on the trolling motor.

d. If calibration is successful, the green Prop On LED on the Foot Pedal Indicator Panel flashes; if the calibration fails, the red Programmable Button LED flashes.

NOTICE: If the calibration fails, the Foot Pedal will return to the factory default. If a position other than the default is desired, adjust the Foot Pedal and complete the process again.

1b





LED BRIGHTNESS

Adjust the brightness of the LEDs on the Instant Response Foot Pedal Indicator Panel.

Adjust the Foot Pedal Indicator LED Brightness on the Wireless Remote

1

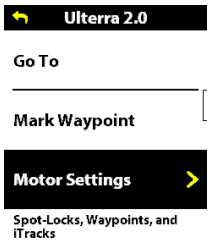
a. Press the Menu button.

b. Use the Speed Up or Speed Down button to find the Motor Settings menu. Use the Steer Right button to select Motor Settings.

c. In the Motor Settings Menu, use the Speed Up or Speed Down button to find Motor LED Brightness.

d. Use the Steer Left or Steer Right button to adjust the brightness between one (dim) and four (bright).

1b



1d



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GENERAL MAINTENANCE

- After use, the entire motor should be rinsed with freshwater. This series of motor is not equipped for saltwater exposure.
- The composite shaft requires periodic cleaning and lubrication for proper retraction and deployment. A coating of an aqueous-based silicone spray will improve operation.
- The Prop must be inspected and cleaned of weeds and fishing line after every use. Fishing line and weeds can get behind the Prop, damage the seals and allow water to enter the motor.
- The Prop is designed to provide weed-free operation with very high efficiency. To maintain this top performance, the leading edge of the blades must be kept smooth. If they are rough or nicked from use, restore to smoothness by sanding with fine sandpaper.
- Verify that the Prop Nut is secure each time the motor is used.
- To prevent accidental damage during transportation or storage, disconnect the battery whenever the motor is off the water. For prolonged storage, lightly coat all metal parts with an aqueous-based silicone spray.
- When using lithium batteries, it is best to charge them right before using them. Storing lithium batteries in a fully charged state for long periods of time may cause damage to the batteries. Check with the battery manufacturer for specifics on the battery.
- For maximum battery life of all other batteries except lithium, recharge the battery(s) as soon as possible after use. For maximum motor performance, restore the battery to full charge prior to use. Check with the battery manufacturer for specifics on the battery.
- Keep battery terminals clean with fine sandpaper or emery cloth.
- Stow the motor after each use to allow water to drain from the Steering Housing. Water that sits in the steering housing when the motor is not in use may cause damage.
- When the motor is deployed, periodically check that the area between the Mount and Steering Housing is clean and free of debris. The Mount contains a Stow Pad that contacts the Steering Housing when stowed. If debris such as dirt, gravel, weeds, or fishing line enters this space, it may create an obstruction on the Stow Pad and prevent a secure stow. Periodically clean this space to ensure a secure stow.
- Keep the Foot Pedal well dry and clean. Debris that gets in the Foot Pedal can cause interference of pedal operation. It is recommended to use compressed air to clean the Foot Pedal after each use.
- Periodically check the motor for loose hardware and damaged components.
- Keep the Instant Response Foot Pedal well dry and clean. Debris that gets into the Foot Pedal may interfere with pedal operation. Minn Kota recommends cleaning the foot pedal with compressed air after each use.
- Periodically check the friction of the Resistance Mechanism. The Resistance Mechanism is intended to wear and may need replacing periodically.

TROUBLESHOOTING

1. Motor fails to run or lacks power:
    - Check the state of the batteries and replace if necessary. Low battery voltage will cause an error.
    - Check battery connections for proper polarity.
    - Make sure the battery is charged.
    - Make sure terminals are clean and corrosion-free. Use fine sandpaper or emery cloth to clean terminals.
    - Check circuit protection devices.
    - Check battery water level. Add water if needed.
2. Motor loses power after a short running time:
    - Check battery charge. If low, restore to full charge, or replace.

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3. You experience Prop vibration during normal operation:
   - Remove and rotate the Prop 180°. See removal instructions in the "Prop Replacement" section. Replace Prop if worn.
4. Experiencing interference with your fish finder:
   - You may, in some applications, experience interference in your fish finder display. We recommend that you use a separate deep cycle marine battery system for your trolling motor. If problems still persist, contact our service department.
5. Motor contacts an object while trimming, causing an audible tone:
   - Reverse the direction of trimming to clear motor from obstruction.
6. Motor contacts an object while stowing, causing an audible tone:
   - Reverse the current cycle to clear the motor from the obstruction. Reverse the stow/deploy action with the wireless remote, Minn Kota Fishing App, or by pressing the Stow/Deploy button on the Foot Pedal.
7. Motor fails to trim:
   - Check main lift-belt tension per the "Motor Adjustments" section.
   - Conduct a Trim Reset procdure using the Indicator Panel at the base of the mount.
     a. To conduct a Trim Reset, press the Power button on the Indicator Panel three times consecutively within a two-second period.
     b. The blue System Status LED and orange Stowed LED will flash continuously while the Ulterra QUEST goes through an automated sequence.
     c. The motor will rotate into the Stow Orientation position.
     d. The motor will trim up to the Mount and then trim down approximately six inches.
     e. The flashing blue orange Stowed LED will turn off, and the flashing blue System Status LED will become solid blue.

⚠ WARNING

During the Trim Reset procedure, the motor will go into an automated sequence. Keep fingers clear of all hinges, pivot points and all moving parts. Ensure that the motor or parts of the motor do not contact the boat, trailer, persons, or any other obstruction.

8. Motor fails to stow or deploy:
   - Check for obstructions preventing the motor from deploying or stowing.
   - Check charge state of trolling motor batteries. If trolling motor battery icon on remote is flashing, battery charge is too low for operation.
   - If unable to stow by any other method, see the "Emergency Stow Procedures" section for details on manually stowing the motor.
9. Prop will not turn on:
   - Ensure batteries are sufficiently charged.
   - For safety reasons, there is a Prop Lockout Region (approx. 16” from bottom of Mount to center of Lower Unit). Ensure that the Lower Unit is not in this region.
10. Experiencing flashing red System Status LED on the Indicator Panel:
    - The trolling motor is communicating that there is an error. Check the Wireless Remote Diagnostic menu for an error code, then refer to the Wireless Remote owner’s manual for information on error codes and solutions. Correct the error and cycle power to the trolling motor. If the LED continues to flash red, please contact the Minn Kota service department.

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11. Is a riser block available for the Instant Response Foot Pedal?

- Given the wide variety of foot pedal well geometries, Minn Kota does not offer a foot pedal riser accessory. We recommend fabricating a simple riser that accommodates your specific foot pedal well geometry and meets your height preference when operating the foot pedal. Make a riser from materials of your choice, provided that the surface of the Foot Pedal rests flatly upon it and the riser does not interfere with the free movement and operation of the pedal.

NOTICE: For all other malfunctions, visit an Authorized Service Center. You can search for an Authorized Service Center in your area by visiting minnkota.johnsonoutdoors.com.

INSTANT RESPONSE FOOT PEDAL ERRORS

The following Instant Response Foot Pedal errors display on the Advanced GPS Navigation Wireless Remote.

Error Code	Error Name	Motor Effect	Possible Recovery Action(s)
5.1	Programmable Button held on Instant Response Foot Pedal	Disables Programmable button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.2	Prop button held on Instant Response Foot Pedal	Disables Prop button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.3	AutoPilot button held on Instant Response Foot Pedal	Disables AutoPilot button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.4	Spot-Lock button held on Instant Response Foot Pedal	Disables Spot-Lock button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.5	MODE button held on Instant Response Foot Pedal	Disables MODE button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.6	Momentary button held on Instant Response Foot Pedal	Disables Momentary button on Instant Response Foot Pedal.	Check if actuator is stuck or if the magnet fell out.
5.7	Loss of communication to Instant Response Foot Pedal tilt sensor	Steering and accessory controls are not active from the Instant Response Foot Pedal.	Try power cycle to reset. Contact Minn Kota Authorized Service Center for service.
5.8	Loss of tilt position magnet in Instant Response Foot pedal	Steering and accessory controls are not active from the Instant Response Foot Pedal.	Try power cycle to reset. Contact Minn Kota Authorized Service Center for service.
5.9	Instant Response Foot Pedal tilt position sensor calibration missing	The resolution and accuracy of the tilt sensor are reduced to ensure that the trolling motor steering range is not limited.	Contact Minn Kota customer service or Authorized Service Center to perform tilt position sensor calibration.
5.10	Instant Response Foot Pedal Speed Control Knob calibration missing	The resolution and accuracy of the Speed Control Knob are reduced to ensure that the trolling motor lower unit speed range is not limited.	Contact Minn Kota customer service or Authorized Service Center to perform Speed Control Knob calibration.
5.11	Advanced GPS Navigation software not up-to-date on trolling motors with built-in Heading Sensor	AutoPilot button will not function, Programmable button defaults to AutoPilot, and the Advanced GPS Navigation Wireless Remote unable to display Instant Response Foot Pedal software version.	For all trolling motors with a built-in Heading Sensor, update the Advanced GPS Navigation software.
5.12	Heading Sensor for trolling motors with external Heading Sensor not connected	For trolling motors with an external heading sensor, all Instant Response Foot Pedal features are disabled except the ability to turn prop off and the ability to trim, stow, and deploy Ulterra motors.	Ensure external Heading Sensor is installed, powered on and paired to the Advanced GPS Navigation system. Replace external Heading Sensor if needed.

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INSTANT RESPONSE FOOT PEDAL ERRORS

The following Instant Response Foot Pedal errors display on the foot pedal Indicator Panel.

Error	LED Behavior	Occurrence	Motor Effect	Possible Recovery Action(s)
No communication on the Instant Response Foot Pedal Network for more than three seconds.	Flashing Auto-Pilot (blue) LED in-between flashing Programmable Button (red) LED.	The trolling motor software is out of date or actively updating, there is a failed circuit on the motor control board, there is a failed circuit on the Instant Response Foot Pedal, or there is a bad connector cable between the Instant Response Foot Pedal and the trolling motor.	All buttons blocked. The Instant Response Foot Pedal can only display LED feedback.	If the trolling motor software is up-to-date, and the Advanced GPS Navigation System is working with the Wireless Remote, replace the Instant Response Foot Pedal.
No communication from the Advanced GPS Navigation System for more than one second, on trolling motors with an external Heading Sensor.	Flashing Auto-Pilot (blue) LED and Spot-Lock (yellow) LED in between flashing Programmable Button (red) LED.	The Advanced GPS Navigation System has a failed circuit, is not plugged in, or cannot power on, or the wiring between the trolling motor control board and the Advanced GPS Navigation System is damaged.	All Instant Response Foot Pedal buttons are disabled except for the ability to turn the prop off and the ability to trim, stow, and deploy Ulterra motors. The Instant Response Foot pedal software version is not reported to the Advanced GPS Navigation system. Unable to control LED brightness. No error reporting.	Check the wiring on the Advanced GPS Navigation System. Replace the Advanced GPS Navigation trolling motor Control Head.
The Advanced GPS Navigation Software is not compatible with the Instant Response Foot Pedal, and it needs an update. Alternatively, the trolling motor has i-Pilot or i-Pilot Link.	Flashing Spot-Lock (yellow) LED in-between flashing Programmable Button (red) LED.	Older motors with i-Pilot or i-Pilot Link are incompatible with the Instant Response Foot Pedal. Trolling motors with Advanced GPS Navigation do not have upgraded software.	The Instant Response Foot Pedal software version does not report to the Advanced GPS Navigation system. For trolling motors with an external Heading Sensor, all Instant Response Foot Pedal buttons are disabled except for the ability to turn the prop off and the ability for Ulterra motors to trim, stow, and deploy. Unable to control LED brightness. No error reporting. For any trolling motor with a built-in Heading Sensor, the LED state will clear upon any button press until the next power cycle. Still, Error Code 5.11 will remain active, where the AutoPilot button will not function, and the Programmable Button defaults to AutoPilot.	Update the software if the trolling motor has Advanced GPS Navigation. The Instant Response Foot Pedal is incompatible with trolling motors with i-Pilot or i-Pilot Link.
The External Heading Sensor is not connected.	Flashing Spot-Lock (yellow) LED and Prop On (green) LED in between flashing Programmable Button (red) LED.	The External Heading Sensor is either not installed, damaged, not paired, or not powered on. A Heading Sensor powered by an auxiliary boat switch is not turned on.	All Instant Response Foot Pedal buttons are disabled except for the ability to turn the prop off and the ability to trim, stow, and deploy Ulterra motors. Unable to control LED brightness. No error reporting.	Ensure the External Heading Sensor is powered and paired to the Advanced GPS Navigation System. If the Advanced GPS Navigation Wireless Remote works as expected, replace the External Heading Sensor.

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FOR FURTHER TROUBLESHOOTING AND REPAIR

Minn Kota offers several options to help you troubleshoot and/or repair your product. Please read through the options listed below.

Buy Parts Online

You can buy parts online directly from our website at minnkota.johnsonoutdoors.com. From screws to sideplates, you can order replacement parts for your Minn Kota products.

Frequently Asked Questions

Find answers to general inquiries, battery and rigging installation, and networking scenarios. We have FAQs available on our website at minnkota.johnsonoutdoors.com to help answer all of your Minn Kota questions.

Contact Us

You can contact our consumer service department with questions regarding your Minn Kota products. To inquire, visit minnkota.johnsonoutdoors.com.

Authorized Service Centers

Minn Kota has over 1,100 authorized service centers in the United States and Canada where you can purchase parts or get your products repaired. Please visit our website to locate a service center in your area at minnkota.johnsonoutdoors.com/us/support/service-providers/locate.

Scan to visit Minn Kota service online.

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COMPLIANCE STATEMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT

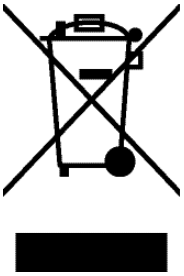
It is the intention of JOME to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

WEEE DIRECTIVE

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

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

This symbol (WEEE wheelie bin) on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE. Johnson Outdoors Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirements do vary within European Union member states. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased.



DISPOSAL

Minn Kota motors are not subject to the disposal regulations EAG-VO (electric devices directive) that implements the WEEE directive. Nevertheless never dispose of your Minn Kota motor in a garbage bin but at the proper place of collection of your local town council.

Never dispose of battery in a garbage bin. Comply with the disposal directions of the manufacturer or his representative and dispose of them at the proper place of collection of your local town council.

REGULATORY COMPLIANCE INFORMATION

Advanced GPS Navigation

For regulatory information on motors that come factory installed with Advanced GPS Navigation, please refer to the Advanced GPS Navigation Wireless Remote Owner’s Manual online at minnkota.johnsonoutdoors.com.

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FCC COMPLIANCE

This device complies with Part 15 of the FCC rules. **Operation is subject to the following two conditions:**

1. This device may not cause harmful interference.
2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Johnson Outdoors Marine Electronics, Inc. could void the user's authority to operate this equipment.

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

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

INDUSTRY CANADA COMPLIANCE

This product meets the applicable Industry Canada technical specifications. 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.

ENVIRONMENTAL RATINGS

Ambient operating temperature range: -10C to 50C
Ambient operating humidity range: 5% to 95%
Maximum operating altitude: 10,000 feet

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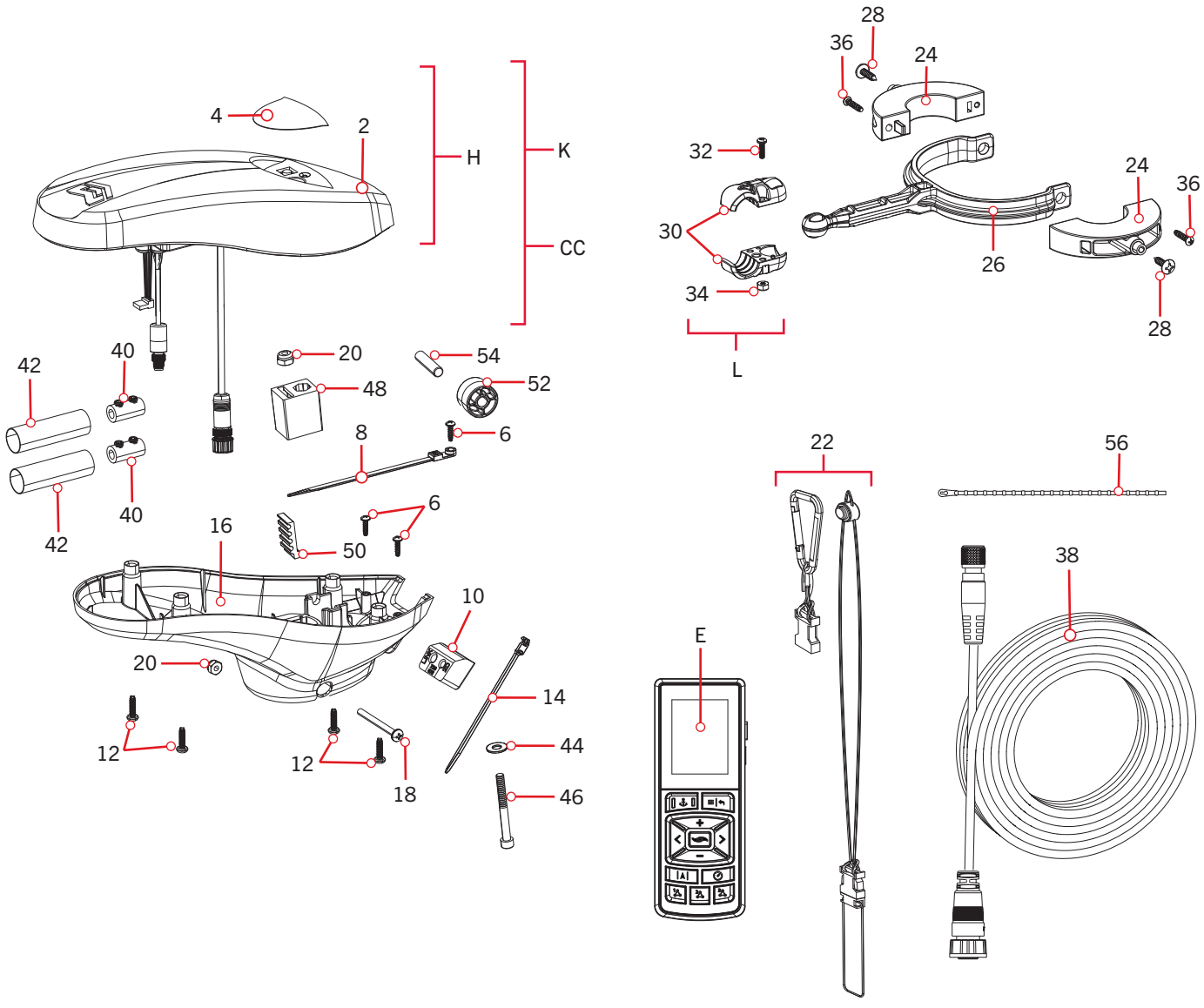
PARTS DIAGRAM & PARTS LIST

ULTERRA QUEST - 90/115 THRUST - 24/36 VOLT - 45”/60”/72” SHAFT

The parts diagram and parts list provide Minn Kota® WEEE compliance disassembly instructions. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased. Tools required, but not limited to: flat head screwdriver, Phillips screwdriver, socket set, pliers, wire cutters.

ULTERRA QUEST CONTROL HEAD

Control Head Parts Diagram



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Control Head Parts List

Assembly	Part #	Description	Notes	Quantity
K	2774142	CTRL KIT 4.0, DB QUEST FW	*DUAL SPECTRUM CHIRP*	1
CC	2774143	CTR KIT 4.0, DB QUEST FW w/GND	*SIDE IMAGING SONAR*	1
H	2770252	CTRL BOX COVER Q2 FW	*COVER & DECALS*	1
E	411690-1	TROLLING MOTOR WIRELESS REMOTE		1
L	2770861	CLAMP-BALL, COIL CORD SLDR KIT		1
Item	**Part #**	**Description**	**Notes**	**Quantity**
2	22002235	CONTROL BOX COVER, BLACK		1
4	2395560	DECAL,PUSH BTN,ULT FX,BLK		1
6	2203441	SCREW-#6 X 1/2" THRD FORM,SSTL		3
8	2206302	TIE WRAP,SCREW MOUNT 6.3"		1
10	2206711	PLUG, RUBBER, 2D	*DUAL SPECTRUM CHIRP*	1
	2206710	PLUG, RUBBER, DI/SI	*SIDE IMAGING SONAR*	1
12	2372100	SCREW-#8-18 X 5/8 THD* (SS		4
14	2206301	TIE WRAP, LOW PROFILE 8"		1
16	2202520	CONTROL BOX BASE, ULT/UTX FW		1
18	2263406	SCREW-#10-24 X 2" S/S PPH		1
20	2333101	NUT-HEX #10-24 UNC-2B NYL SS		2
22	2390802	LANYARD REMOTE WITH CARRABEENER		1
24	2201530	COLLAR HALF, COIL CORD	*72"*	2
26	2201531	COLLAR ARM, COIL CORD	*72"*	1
28	2203424	SCREW-#10-12 x.75 PTH SS	*72"*	2
30	✖	CLAMP-BALL,COIL CORD SLDR	*72"* *SEE ASSEMBLY L*	2
32	✖	SCREW-#6-32X5/8" TORX PH SS ND	*72"* *SEE ASSEMBLY L*	1
34	✖	NUT-HEX, 6-32 NYLOK SS	*72"* *SEE ASSEMBLY L*	1
36	2203460	SCREW-#8 X 0.75 PPH HI-LO SS	*72"*	2
38	490636-3	CABLE, ADPTR, 14P, BRAID, 110"	*DUAL SPECTRUM CHIRP*	1
	490635-1	CABLE, INT MSI, BRAID-INSTINCT	*SIDE IMAGING SONAR*	1
40	2375444	SPLICER, 6-10 AWG, TIN PLTD		2
42	2205413	SHRINK TUBE-3/4 X 2.25"		2
44	2201721	WASHER - #10 SAE.], SS		1
46	2203411	SCREW-#10-24,SHCS,SS, RIE 4606		1
48	2202800	BLOCK-BELT		1
50	2200800	BELT-RACK, LOWER		1
52	2202335	PULLEY, BELY TOP		1
54	2202635	PIN-DOWEL, 1/4" OD SS		1
56	2206305	TIE WRAP, REUSABLE RED, 8"		1
▲	2207132	MANUAL, ULTERRA Q-27		1
▲	2207180	INSTALL GUIDE, ULTERRA Q-27		1

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
▲	2207142	QRG, ULT Q/INST Q		1
▲	2397110	MANUAL, iPILOT 4.0		1
▲	2207181	CHECKLIST, ULTERRA Q-27		1
▲	2207143	QRG INSTINCT/ULTERRA		1
▲	2206819	LABEL-CARTON "CAUTION HEAVY"		1
▲	2206610	DECAL, TEAM LIFT		1
▲	2375535	DECAL, VENT PATCH		1

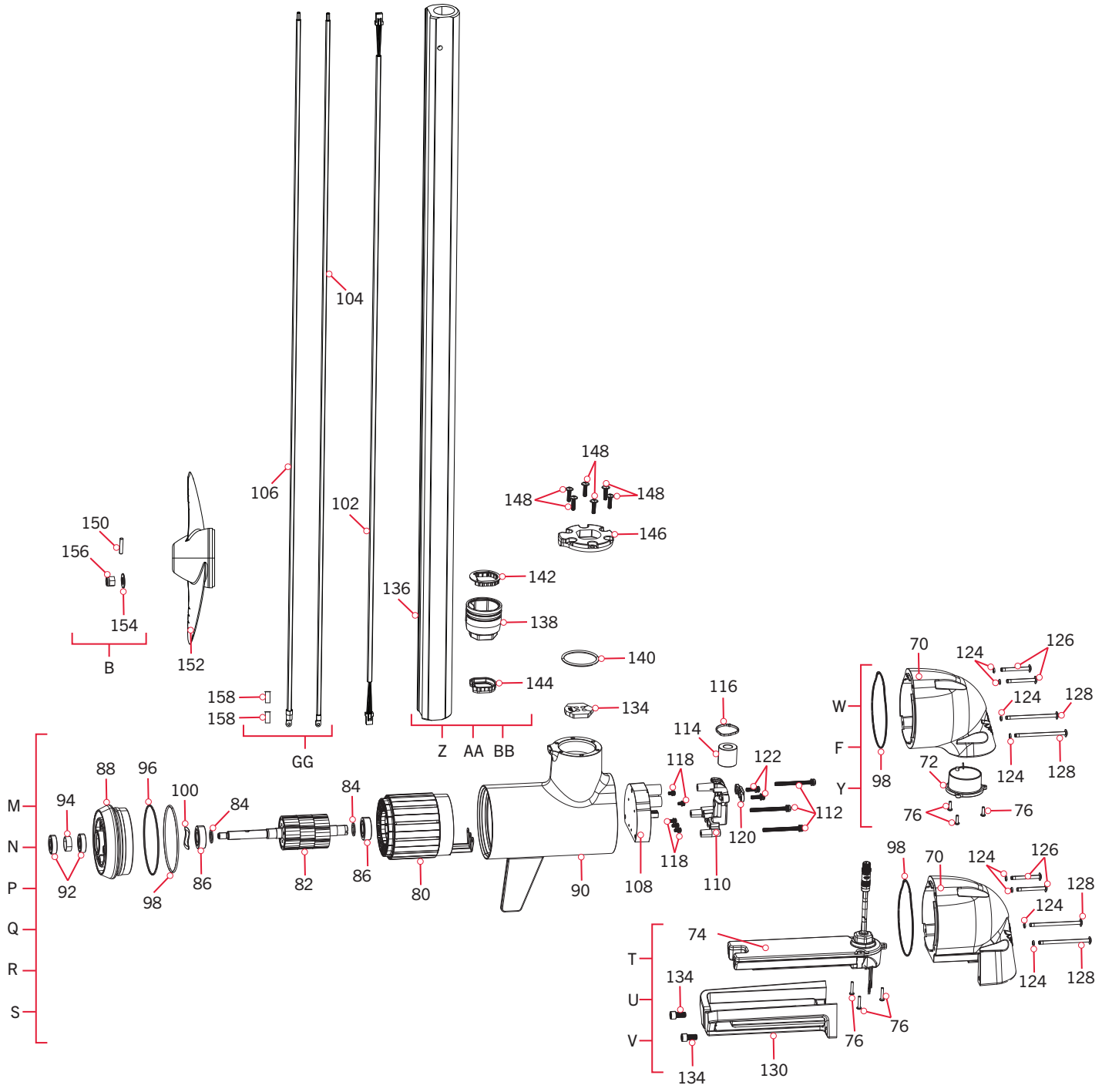
▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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ULTERRA QUEST MOTOR

24/36 Volt 90/115 Thrust Motor Parts Diagram



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24/36 Volt 90/115lb Thrust Motor Parts List

Assembly	Part #	Description	Notes	Quantity
M	2441060	MTR ASY 90/115#DSC FW BLK 45” M8	*45"* *DUAL SPECTRUM CHIRP*	1
N	2441062	MTR ASY 90/115#DSC FW BLK 60” M8	*60"* *DUAL SPECTRUM CHIRP*	1
P	2441063	MTR ASY 90/115#DSC FW BLK 72” M8	*72"* *DUAL SPECTRUM CHIRP*	1
Q	2441080	MTR ASY 90/115#MSI FW BLK 45” M8	*45"* *SIDE IMAGING SONAR*	1
R	2441082	MTR ASY 90/115#MSI FW BLK 60” M8	*60"* *SIDE IMAGING SONAR*	1
S	2441083	MTR ASY 90/115#MSI FW BLK 72: M8	*72"* *SIDE IMAGING SONAR*	1
T	2773072	MSI FRONT END 45" QUEST	*45"* *SIDE IMAGING SONAR*	1
U	2773074	MSI FRONT END 60" QUEST	*60"* *SIDE IMAGING SONAR*	1
V	2773075	MSI FRONT END 72" QUEST	*72"* *SIDE IMAGING SONAR*	1
W	2773031	DSC FRONT END 45" QUEST	*45"* *DUAL SPECTRUM CHIRP*	1
F	2773033	DSC FRONT END 60" QUEST	*60"* *DUAL SPECTRUM CHIRP*	1
Y	2773035	DSC FRONT END 72" QUEST	*72"* *DUAL SPECTRUM CHIRP*	1
Z	2991064	BL ASM FW DSC/MSI 45"U2,T3	*SHAFT* *45"*	1
AA	2991065	BL SHAFT ASM 60” UTX,ULT,T3,RT	*SHAFT* *60"*	1
BB	2991069	BL SHAFT ASM 72" T3-2027	*SHAFT* *72"*	1
B	2992604	BAG ASSM, PROP HARDWARE		1
GG	2880613	MTR LEADWIRE KIT, QUEST, 45-72"		1
Item	**Part #**	**Description**	**Notes**	**Quantity**
70	✖	FRONT ENDBELL, DSC, FW	*DUAL SPECTRUM CHIRP*	1
	✖	FRONT ENDBELL, MSI, FW	*SIDE IMAGING SONAR*	1
72	✖	DSC XDUCER ASSY 62" HW T	*DUAL SPECTRUM CHIRP* *45"*	1
	✖	DSC XDUCER ASSY 73" HW T	*DUAL SPECTRUM CHIRP* *60"*	1
	✖	DSC XDUCER ASSY 86" HW T	*DUAL SPECTRUM CHIRP* *72"*	1
74	✖	BI MSI 67 FOR U2-440494-2	*SIDE IMAGING SONAR* *45"*	1
	✖	BI MSI 79 FOR U2-440494-4	*SIDE IMAGING SONAR* *60"*	1
	✖	BI MSI 91 FOR U2-440494-5	*SIDE IMAGING SONAR* *72"*	1
76	✖	SCREW-#6-32X1/2” TORX PH SS ND		3
78	880-032	SEAL-FRONT, BL MOTORS		1
80	✖	STATOR ASSEMBLY		1
82	✖	ROTOR ASSEMBLY		1
84	✖	WASHER BEARING		2
86	✖	BALL BEARING		2
88	✖	REAR ENDBELL, FW PAINT		1
90	✖	CENTER HSG, FW PAINT		1
92	✖	SEAL		2
94	✖	PAPER TUBE - SEAL BORE		1
96	✖	O-RING		1
98	✖	O-RING		1
100	✖	WASHER-WAVE		1

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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Item	Part #	Description	Notes	Quantity
102	195-640	CABLE-COM 22GA TWST PAIR 62.38	*45"*	1
	195-642	CABLE-COM 22GA TWST PAIR 76.25	*60"*	1
	195-643	CABLE-COM 22 GA TWST PAIRS	*72"*	1
104	✖	LEADWIRE RED 8 AWG 60 1/8	*45"* *SEE ASSEMBLY GG*	1
	✖	LEADWIRE RED 8 AWG 74	*60"* *SEE ASSEMBLY GG*	1
	✖	LEADWIRE RED 8 AWG 85 3/8	*72"* *SEE ASSEMBLY GG*	1
106	✖	LEADWIRE BLK 8 AWG 61 1/8	*45"* *SEE ASSEMBLY GG*	1
	✖	LEADWIRE BLK 8 AWG 75	*60"* *SEE ASSEMBLY GG*	1
	✖	LEADWIRE BLK 8 AWG 86 3/8	*72"* *SEE ASSEMBLY GG*	1
108	2994130	INVERTER ASM, 24/36V, BL		1
110	979-031	STRAIN RELIEF,BTM MACH WIRETAB		1
112	830-118	SCREW-DBL SEM M5X.8MMX60MM		3
114	2307318	FERRITE BEAD, BL	*DUAL SPECTRUM CHIRP*	1
	2307319	FERRITE BEAD, BRUSHLESS	*SIDE IMAGING SONAR*	1
116	9953310	TIE WRAP-8.5"		1
118	830-123	SCREW-M4 X .7X8MM HEX DBL SEMS		5
120	979-022	STRAIN RELIEF, TOP CAST		1
122	830-121	SCREW-M5 X .8X18 PPH ZPS		2
124	701-010	O-RING, SCREW		4
126	830-105	SCREW ROUND MOTOR TOP		2
128	830-106	SCREW ROUND MOTOR BOTTOM		2
130	792-030	GUARD-SONAR, MSI, FW PAINT	*SIDE IMAGING SONAR*	1
132	830-110	SCREW-5-16-18 X 5/8 SHCS SS	*SIDE IMAGING SONAR*	2
134	880-041	SEAL-WIRE, BL MTR, UNIV. CHIRP	*DUAL SPECTRUM CHIRP*	1
	880-040	SEAL-WIRE, BL MTR, MSI/MDI	*SIDE IMAGING SONAR*	1
136	✖	PULT-MIC BL .51-.88-48CH	*45"*	1
	✖	PULT-MIC BL .51-.88-62CH	*60"*	1
	✖	PULT-MIC BL .51-.88-74CH	*72"*	1
138	✖	PLUG, COMP SHAFT, PAINTED		1
140	2294630	O-RING, 226, 70 SHORE A		1
142	✖	SEAL-TOP SHAFT, BL, CLR		1
144	✖	SEAL-LWR SHAFT, BL, CLR		1
146	2206452	PLATE, CLAMP, PAINTED, BELT		1
148	830-013	SCREW-M5 X .8 FSHCS SS CTD		6
150	2262657	PIN-DRIVE 1" X 3/16" SS 17-4		1
152	2321170	PROP, POWER REAMED		1
154	2091701	WASHER-PROP (LARGE) MAX101		1
156	2093101	NUT-PROP,NYLOC,LG,MX101 3/8 SS		1
158	2372951	FERRULE, 8 AWG, .47" , TIN PLTD	*SEE ASSEMBLY GG*	2
▲	2375404	SHRINK TUBE-24MM IDx1.25" ADHS	*SIDE IMAGING SONAR*	1
▲	2005764	DECAL,SERIAL NO., BRUSHLESS LU		1

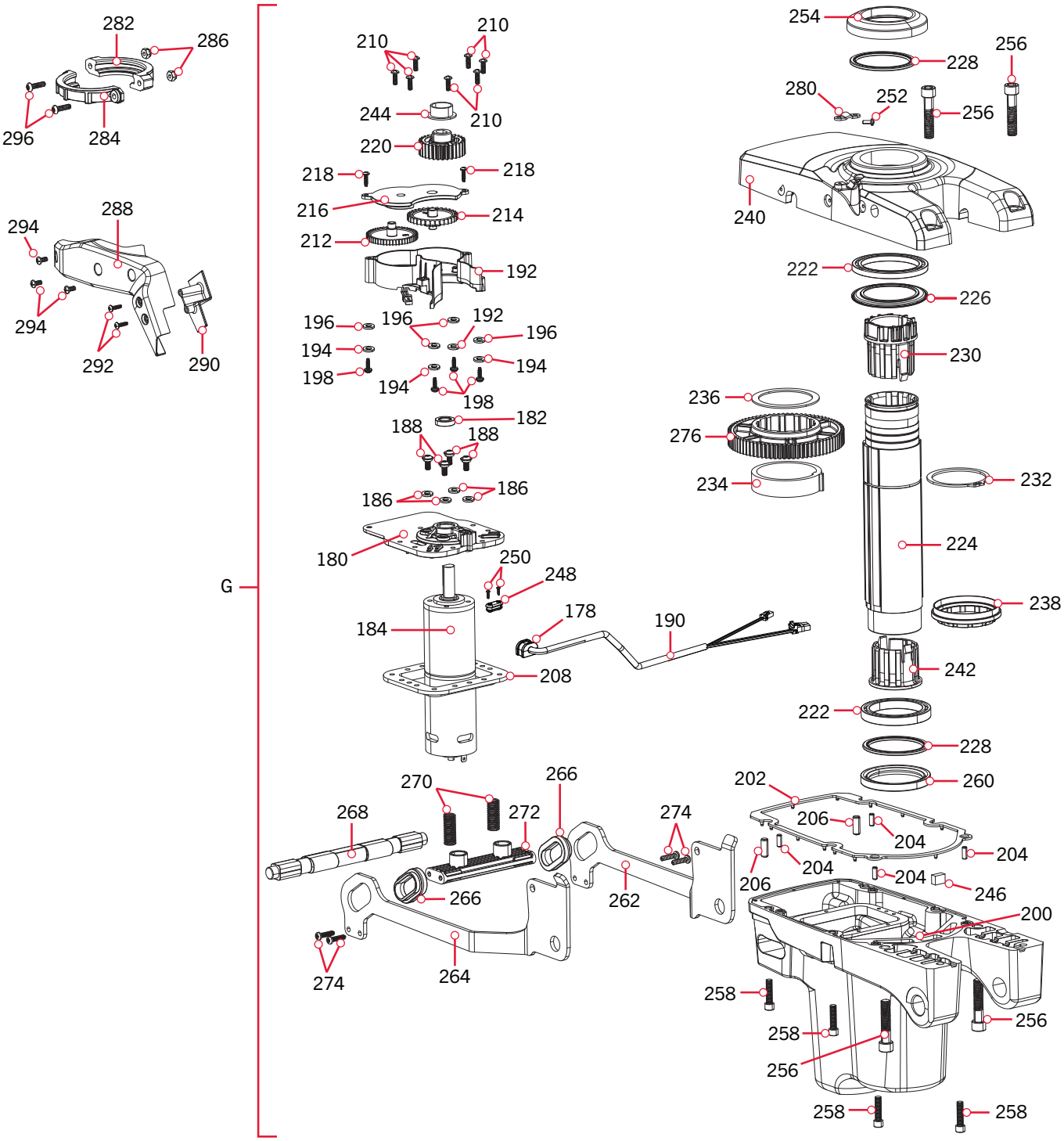
▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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ULTERRA QUEST STEERING HOUSING ›

› Steering Housing Parts Diagram



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Steering Housing Parts List

Assembly	Part #	Description	Notes	Quantity
G	2996537	ASM, STEERING, FW, BLK, G2		1
Item	**Part #**	**Description**	**Notes**	**Quantity**
180	✖	PLATE, MOTOR MNT, STEERING		1
182	✖	SEAL,ID 12MM, OD 20MM, T 5MM		1
184	✖	MOTOR, 24 VDC, 1:50 152 MM		1
186	✖	O-RING, 3/16 ID X 3/8 OD		4
188	✖	SCREW-M5X.8X12,FLANGED BTN HD		4
190	✖	STEERING CORD ASM		1
192	✖	SENSOR,STEERING,ROTATIONAL,I/T		1
194	✖	SEALING WASHER, RUBBER		4
196	✖	WASHER-FLAT #6 S/S		4
198	✖	SCREW-#6 X 1/2" THRD FORM,SSTL		4
200	✖	HSG-BTM STEERING, FW BLK, G2		1
202	✖	SEAL, STEERING HOUSING SPLIT		1
204	✖	PIN-DOWEL, 3/16 X 1/2, SS		4
206	✖	PIN-DOWEL, 1/4" X 5/8" SS		2
208	✖	GASKET, MOTOR HOUSING,STEERING		1
210	✖	SCREW-#8-32 X 9/16, PPH, SSTL		7
212	✖	GEAR-STEER SENSOR,51T,w/MAGNET		1
214	✖	GEAR-TRIM, 14T		1
216	✖	COVER, STEER SENSOR GEARS		1
218	✖	SCREW-#6 X 1/2" THRD FORM,SSTL		2
▲	✖	TIE WRAP-4" BLACK(#21041)		1
220	✖	GEAR, 30 TOOTH,PINION,STEERING		1
222	✖	BRG, 55 X 72 X 9MM, SSTL		1
224	✖	OUTPUT TUBE, ANDIZED		1
▲	✖	O-RING,-139,NOM ID 2.00, W .103		1
226	2205911	CAP-GREASE, BEARING, UPPER, G2		1
228	✖	SEAL, ROTART SHAFT 55X65X5MM		1
230	2207321	BUSHING,OUTPUT TUBE,TOP,INSTNC		1
232	✖	RETAINING RING, 2 3/8"		1
234	✖	HUB, STEERING STOP, ANODIZED		1
236	✖	WASHER-THRUST, OUTPUT TUBE		1
238	✖	GREASE CAP BEARING		1
240	✖	HSG-TOP, STEERING,SW, BLK		1
242	2207345	BUSHING, OUTPUT TUBE, LOWER		1
244	✖	BUSHING, JFM-2023-11		1

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
246	✖	VENT FILTER, STEERING HOUSING		1
248	✖	MNT, SENSOR, LATCH QRP		1
250	✖	SCREW-#4-24 X 1/4 PHCR SS TY B		2
252	✖	SCREW-#6-32 X .625 PPH SS		1
254	✖	SEAL, UMBRELLA		1
256	✖	SCREW-3/8-16 X 1.75 SHCS SSTL		4
258	✖	SCREW-1/4-20 X 1" SHCS SS		4
260	✖	SEAL, 55X72X8, VITON		1
262	2201927	LATCH BRACKET, RGHT, 7 GA SSTL		1
264	2201928	LATCH BRACKET, LEFT, 7 GA SSTL		1
266	2207306	BUSHING, LATCH PIN		2
268	2202624	PIN-LATCH, OVERMOLDED		1
270	2202705	SPRING,COMPRSS,1.25 L,0.63 CMP		2
272	2207210	HANDLE, LATCH BRACKET		1
274	3393481	SCREW-#10X.75" PPH HI-LO (SUB)		4
276	✖	GEAR, 78 TOOTH, OUTPUT TUBE		1
278	✖	GROMMET, QRP SENSR HARNESS		1
280	✖	HARNESS, QRP SNSR, HALL EFF		1
282	2200845	CLAMP, TRIM-STEER, L, MACH		1
284	2200846	CLAMP, TRIM-STEER, R, MACH		1
286	2333101	NUT-HEX #10-24 UNC-2B NYL SS		2
288	2206412	COVER, CABLE, STEER HOUSING		1
290	2206413	BACKING, CABLE COVER		1
292	2203441	SCREW-#6 X 1/2" THRD FORM,SSTL		2
294	2332101	SCREW-#8-32 X 1/2 (SS)		3
296	2383469	SCREW-#10-24 X 3/4,SS,BHCS		2

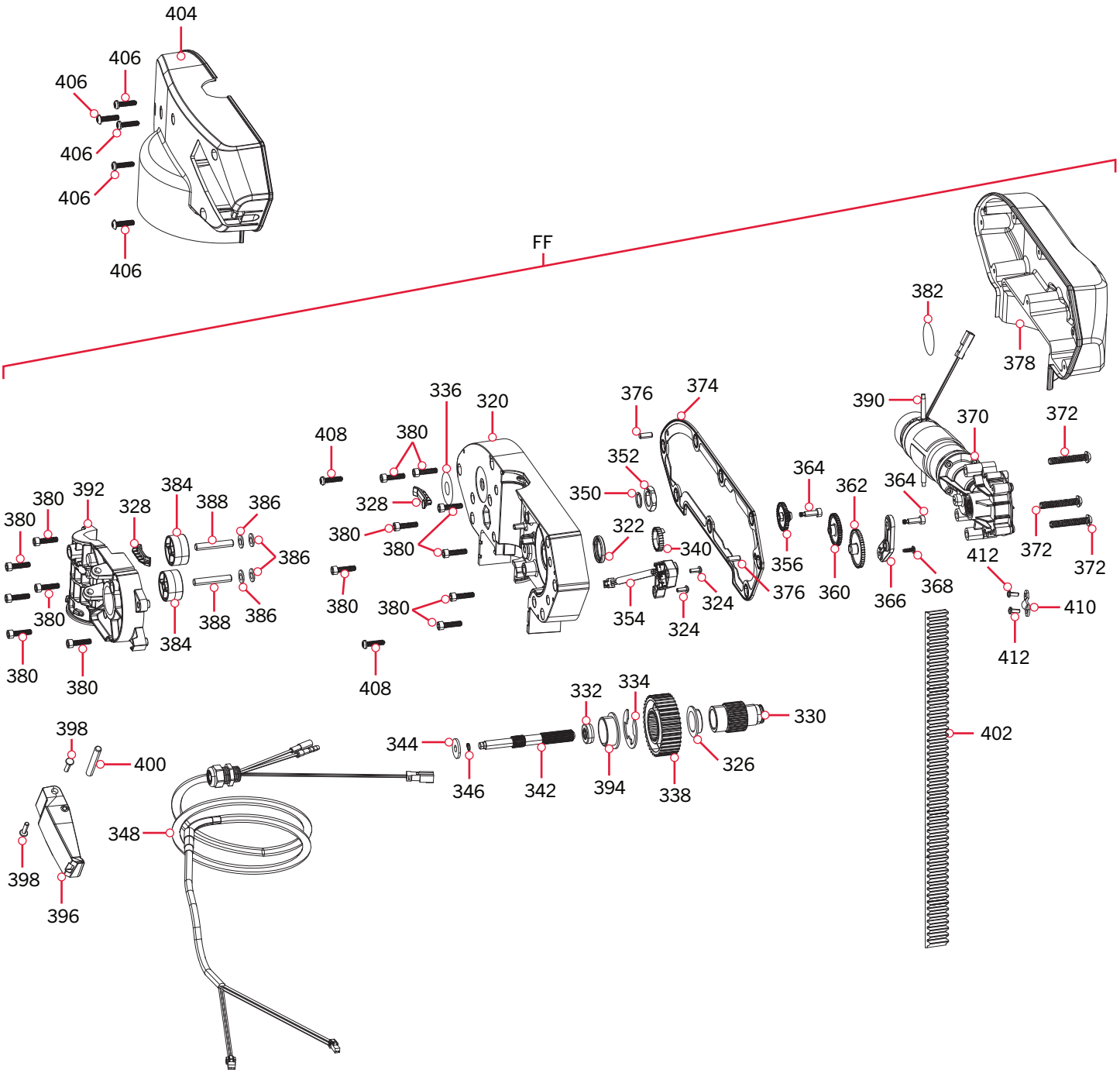
▲ *Not shown on Parts Diagram.*

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ULTERRA QUEST TRIM HOUSING ›

› Trim Housing Parts Diagram



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Trim Housing Parts List

Assembly	Part #	Description	Notes	Quantity
FF	2777863	ASM, TRIM MOD, FW BLK SERV	*INCLUDES BELT* *INSTALLER CUT TO LENGTH*	1
Item	**Part #**	**Description**	**Notes**	**Quantity**
320	✖	HOUSING-MID,TRIM, SW, BLK		1
322	✖	SEAL,LIP,3/4 ID X 1 OD X 1/8 L		1
324	2073414	SCREW-#6-32 X .375 PPH SS(N/A)		2
326	✖	BUSHING, FLANGED, 3/4 SHAFT		1
328	2205126	BUMPER, WEAR, TRIM		2
330	✖	HUB, TRIM PULLEY, ANODIZE		1
332	✖	SEAL,LIP,5/16 ID X 3/4 ODX1/4L		1
334	2203030	RING, RETAIN, SE-98 E-CLIP		1
336	2201727	WASHER, SLIP, TRIM		1
338	2202355	PULLEY, 38T, 1062-20 GROB IN		1
340	✖	GEAR, PINION, TRIM COUNT		1
342	✖	SPLINE SHAFT, PULLEY,TRIM		1
344	2201726	WASHER,ID .281, OD .75, T .075		1
346	2203032	RETAINING RING, 1/4"		1
348	✖	TRIM CORD ASM		1
350	✖	O-RING, HEYCO, 12X2MM, BUNA-N		1
352	✖	NUT, PG 9, BRASS		1
354	✖	SENSOR, TRIM, ROTATIONAL, I		1
356	✖	GEAR, 12T/35T		1
360	✖	GEAR, 13T/40T		1
362	✖	GEAR-TRIM SENSOR,48T, w/MAGNET		1
364	✖	BOLT-SHOULDER, #8-32 THD, SSTL		2
366	✖	CAP, TRIM MAGNET SENSOR GEAR		1
368	2372103	SCREW-#6 X .375 PLASTITE SS		1
370	✖	MOTOR, TRIM, 42MM, AXIAL SLIP, G2		1
372	✖	SCREW-1/4-20 X 1.50" BHCS SS		3
374	✖	GASKET, INSTINCT, TRIM		1
376	2202619	PIN-DOWEL, 3/16 X 1/2, SS		2
378	✖	HSG-MTR CVR, TRIM,FW, BLK		1
380	2203423	SCREW-#10-24 x .75, SHCS, SS		14
382	✖	VENT PATCH, YLW/BLK		1
384	2202352	PULLEY-IDLER, TRIM,REAMED		2
386	2201736	WASHER, PLASTIC,.265 ID, .5 OD		4
388	2202610	PIN, BELT PULLEY		2

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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Item	Part #	Description	Notes	Quantity
390	2204635	SEAL,1/16 O-RING CORD,SILICONE		1
392	2201521	COLLAR, OUTPUT TUBE, MACH		1
394	✖	BUSHING, FLANGED, 1.0 SHAFT		1
396	2200115	LEVER,TRIM RELEASE, MACH.		1
398	2202670	PIN, KNURL, HEAD, 4MM X 8MM		2
400	2202639	PIN-DOWEL, 1/4 X 1.75 LG		1
402	✖	BELT-LIFT 5MM HTD		1
404	2206524	TRIM HOUSING, OD COVER FW		1
406	2383469	SCREW-#10-24 X 3/4,SS,BHCS		5
408	3393481	SCREW-#10X.75" PPH HI-LO (SUB)		2
410	2200850	CLAMP, TRIM CABLE		1
412	2073414	SCREW-#6-32 X .375 PPH SS(N/A)		2

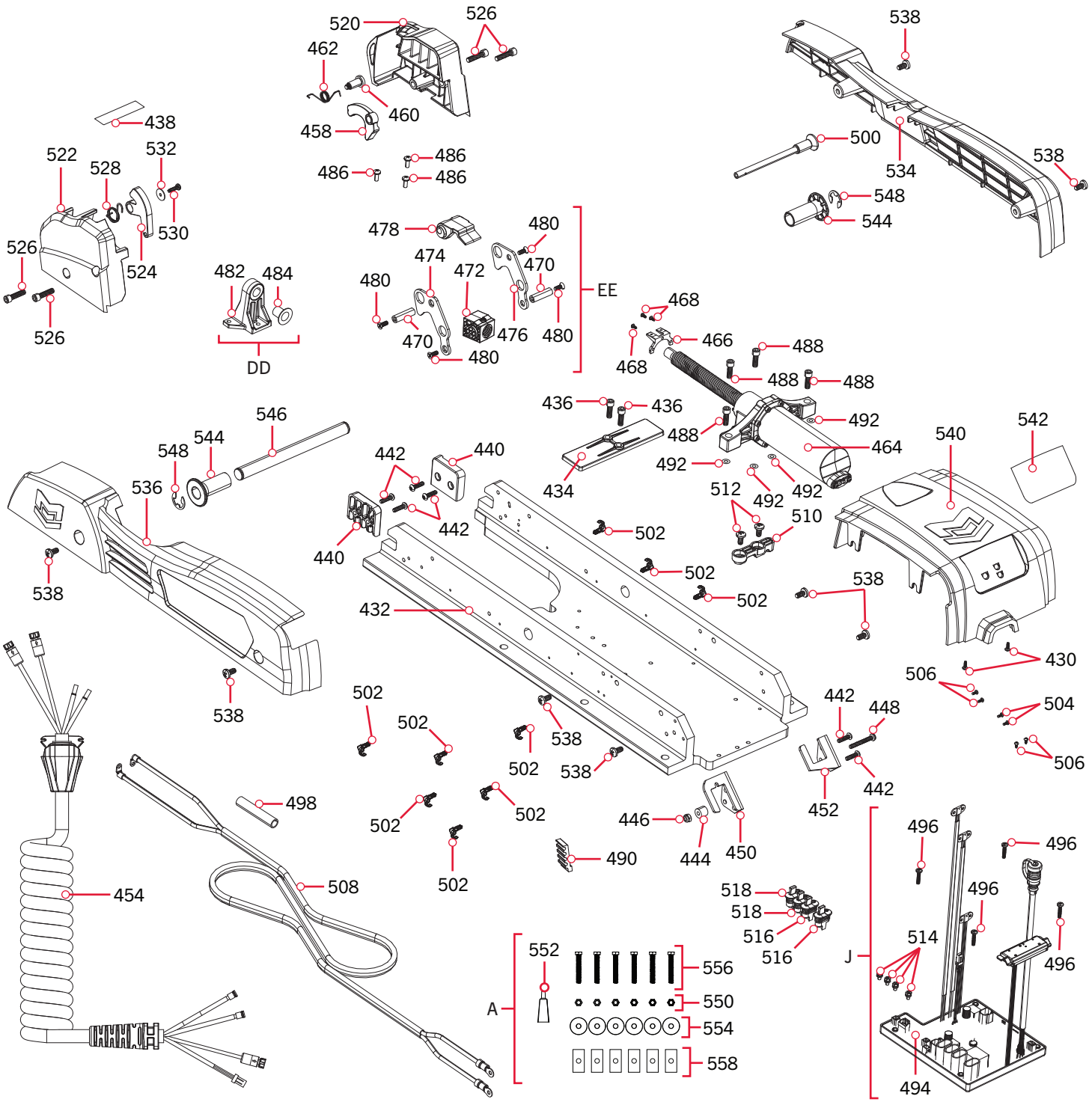
▲ *Not shown on Parts Diagram.*

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ULTERRA QUEST MOUNT

Mount Parts Diagram



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Mount Parts List

Assembly	Part #	Description	Notes	Quantity
A	2994948	BAG, ASM, INSTINCT, T3 BL HDW		1
J	2774039	INSTINCT/UTR CTRL BOARD KIT		1
DD	2772324	ASM, TILT ACTUATOR END SUPPORT		1
EE	2774220	ASM, TILT KNUCKLE/LINKS		1
Item	**Part #**	**Description**	**Notes**	**Quantity**
430	2372103	SCREW-#6 X .375 PLASTITE SS		2
432	2201908	BASE, EXTRUSION, MACHINED FW, G2		1
434	2205106	PAD, DEAD STOP, STOW		1
436	2373434	SCREW-1/4-20 X 3/4 SS PPMS		2
438	2205518	DECAL-INSTRUCTIONS,TRIM BYPASS		1
440	2323211	STOP-DEAD, DEPLOY		2
442	2383469	SCREW-#10-24 X 3/4,SS,BHCS		6
444	2202907	STANDOFF,.5 ODX.19 IDX.44 L,PL		1
446	2333101	NUT-HEX #10-24 UNC-2B NYL SS		1
448	2203426	SCREW-#10-24 x 1.5 SS BHCS		1
450	2200828	CLIP-CORD BACKUP MT PLATE		1
452	2200829	CLIP-CORD MT BRACKET		1
454	2991213	COIL CORD ASM 45" - 60" ES	*45"* *60"*	1
	2991214	COIL CORD ASM 72"	*72"*	1
456 ▲	2205802	HANGTAG, ULTERRA/INSTINCT		1
458	2997925	CAM, LATCH, SENSOR w/MAGNET		1
460	2203504	BOLT-SHOULDER, PLASTIC OVERMOLD		1
462	2042711	SPRING-TORSION, SS		1
464	2997819	ASM, TILT ACTUATOR, FW BLK, G2		1
466	2202326	SUPPORT, TILT SHAFT SENSOR		1
468	2373440	SCREW-#4-24 X 1/4 PHCR SS TY B		3
470	2202930	SPACER, TILT LINKS		2
472	✖	KNUCKLE,TILT 3/4-8 AMCE MAG G2	*SEE ASSEMBLY EE*	1
474	✖	LINK-TILT, LEFT, G2	*SEE ASSEMBLY EE*	1
476	✖	LINK-TILT, RIGHT, G2	*SEE ASSEMBLY EE*	1
478	✖	BUSHING, E-PIN ECCENTRIC	*SEE ASSEMBLY EE*	1
480	✖	SCREW-#10-32 X .5"	*SEE ASSEMBLY EE*	4
482	✖	SUPPORT,TLT SHFT END,REAM	*SEE ASSEMBLY DD*	1
484	✖	BUSHING, RFI-0810-10	*SEE ASSEMBLY DD*	1
486	2373481	SCREW-#10-32 X 1/2"SEMS PPH SS		3
488	9954533	SCREW-1/4-20 X 3/4" (SS) SHCP		4
490	2206576	RACK, BELT, TAPER, ANODIZED		1

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
492	2071716	WASHER-FLAT SS .253 X .470		4
494	2204034	CTRL BOARD ASM, MAIN UQ/IQ G2		1
496	2373487	SCREW-#8-32 X 3/4" PPH MACH SS		4
498	2205412	SHRINK TUBE.75 ID x 2"		1
500	2202623	PIN,QCK REL. 5/16 x 3 1/2		1
502	2208637	RIVET W/CLIP, PLSTIC, .250 PILOT		9
▲	2378448	MAGNET-.187X .125 NCKL PLT		1
504	2323445	SCREW-#4-40x3/8 TR HD TORX SS		2
506	2373440	SCREW-#4-24 X 1/4 PHCR SS TY B		4
508	2200625	LEADWIRE ASM,8AWG,ULT 2 (DPLX)		1
510	2202919	STRAIN RELIEF, POWER		1
512	2323405	SCREW-1/4-20 X 1/2" MCH SS		2
514	830-123	SCREW-M4 X .7X8MM HEX DBL SEMS		4
516	2294610	SEAL, PCBA TERMINAL GRAY .215		2
518	2294611	SEAL, PCBA TERMINAL BLACK .270		2
520	2203930	RAMP-MOTOR, RIGHT		1
522	2203935	RAMP-MOTOR, LEFT		1
524	2997907	RAMP/ACTUATOR ASM w/MAGNET		1
526	2263453	SCREW-1/4-20 X 1" SHCS S/S		4
528	2202708	SPRING-TORSION,RGT HND WIND,SS		1
530	2372100	SCREW-#8-18 X 5/8 THD* (SS		1
532	2201723	WASHER-#6, .625 OD, SS		1
534	2203950	SIDEPLATE, RIGHT, BLACK, DE		1
536	2203955	SIDEPLATE, LEFT, BLACK, DE		1
538	2323405	SCREW-1/4-20 X 1/2" MCH SS		8
540	2206515	HOUSING-CONTROL, BLACK		1
542	2205614	DECAL-PWR SWITCH, FW, BLK, Q2		1
544	2207311	BUSHING, STEER HOUSING PIVOT		2
546	2202650	SHAFT, SUPPORT, TILT		1
548	2373013	E-RING, EXTERNAL SS .625, HNDL		2
550	2383122	NUT 3/8-16 NYLON INST LOCKNUT		6
552	2378608	ANTI-SEIZE TUBE 4CC, TALON		1
554	2321710	WASHER, RUBBER MOUNT		6
556	2323440	SCREW-3/8-16X 2 1/2 HHCS SS		6
558	2371796	BACKUP BAR 3/16 X 1 X 2		6

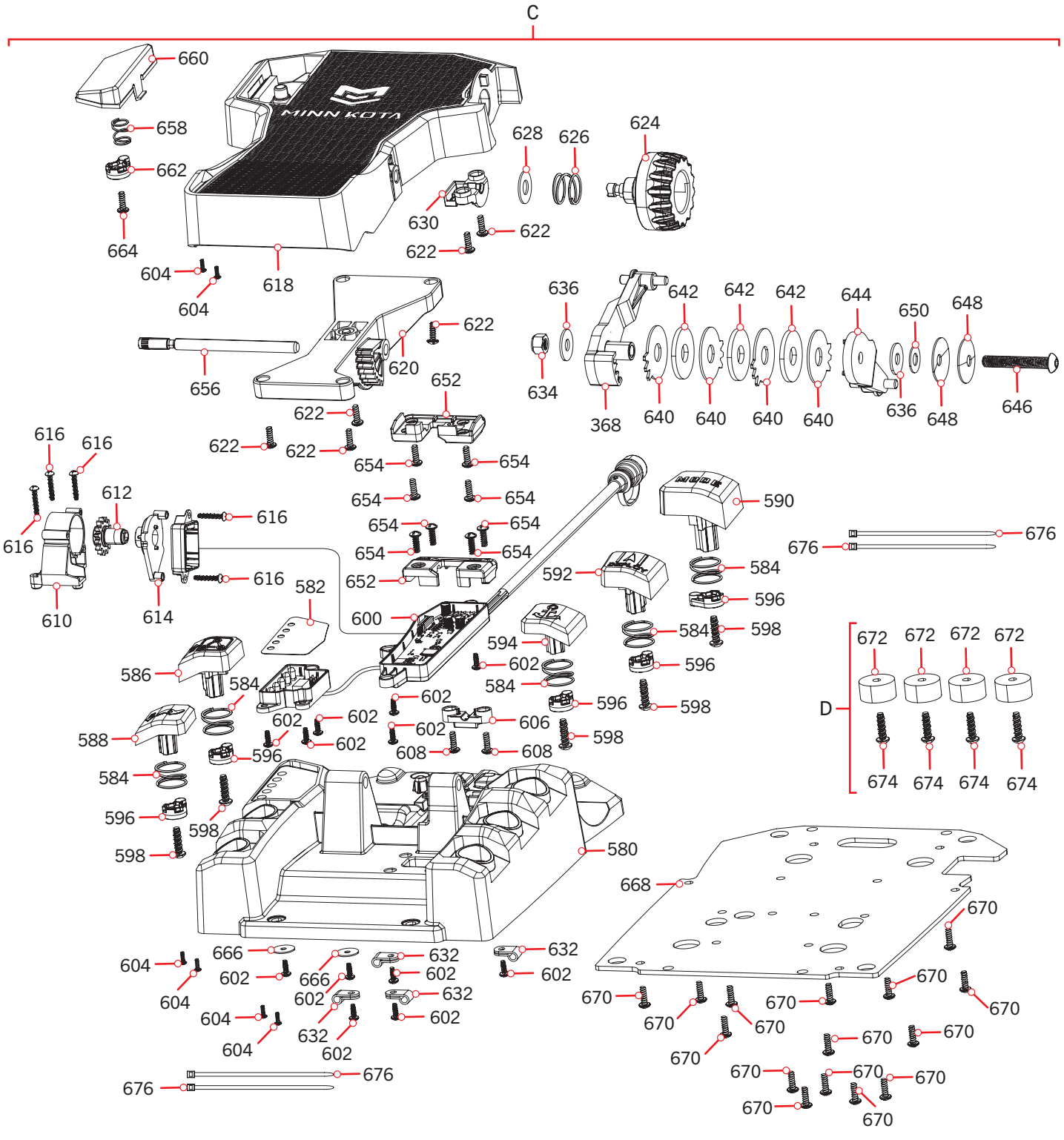
▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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ULTERRA QUEST INSTANT RESPONSE FOOT PEDAL

Instant Response Foot Pedal Parts Diagram



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Instant Response Foot Pedal Parts List

Assembly	Part #	Description	Quantity
C	2994411	ULTERRA 2.0 RES FP	
D	2995121	BAG ASM, FP, BUMPER PAD	1
Item	**Part #**	**Description**	**Quantity**
580	✖	BASE, FOOT PEDAL	1
582	2376610	DECAL-LED, ULTERRA/INSTINCT	1
584	2292700	SPRING, BUTTON, FOOT PEDAL	5
586	2373735	BUTTON, TOP LEFT, ULT PEDAL	1
588	2373734	BUTTON, BTTM LEFT, ULT PEDL	1
590	2373733	BUTTON, TOP RIGHT, ULT PDAL	1
592	2373732	BUTTON, MID RIGHT, ULT PDAL	1
594	2373731	BUTTON, BOTTOM RIGHT, PEDAL	1
596	2994230	ARM, MGNT CARRIER, w/MAGNET	5
598	2373563	SCREW-#12-16 X 3/4 SS	5
600	✖	PCBA, FBW FP, MAIN BOARD	1
602	2372103	SCREW-#6 X .375 PLASTITE SS	12
604	✖	SCREW-#4-17 X 1/4 SS	6
606	✖	STRAIN RELIEF, FOOT PEDAL	1
608	✖	SCREW- #8-11 X 1/2 SS	2
610	✖	BRACKET BOTTOM, ROT SENSOR	1
612	✖	GEAR, POS SENSOR 15T W MAGN	1
614	✖	BRACKET COVER, ROT SENSOR	1
616	✖	SCREW- #6-13 X 3/4 SS	5
618	✖	PEDAL, FOOT PEDAL	1
620	✖	BRACKET,PEDAL REINFORCEMENT	1
622	2373565	SCREW- #8-11 X 1/2 SS	6
624	2997910	SPEED WHEEL, FP PRINTED	1
626	2372703	SPRING, SPEED WHEEL, FBW FP	1
628	2371789	WASHER-3/8 X 7/8 UHMWPE	1
630	2370875	CLAMP, SPEED WHEEL	1
632	✖	CABLE CLAMP, 3/16", NYLON	4
634	2373103	NUT, 5/16-24 NYLOK BRASS	1
636	2371787	WASHER, PLASTIC 5/16	2
638	2994220	FRICTION ARM ASM, TOP	1
640	2371785	WASHER, CLOCKED SS	4
642	2371786	WASHER, FRICTION	3
644	2994303	FRICTION ARM ASM, BOTTOM	1
646	2373561	SCREW-5/16-24 X 2 BHCS SS	1
648	2371788	WASHER, BELLEVILLE 5/16 SS	2
650	2151726	WASHER-5/16 STD (S/S)	1

▲ *Not shown on Parts Diagram.*

✖ *This part is included in an assembly and cannot be ordered individually.*

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Item	Part #	Description	Quantity
652	✖	CLAMP-TOP, FRICTION ARM	2
654	✖	SCREW- #8-11 X 1/2 SS	8
656	✖	PIN-PIVOT, MAIN, FOOT PEDAL	1
658	2302732	SPRING-LOWER PEDAL S/S [A120	1
660	2373730	MOMENTARY BUTTON,FOOT PEDAL	1
662	✖	ARM, MGNT CARRIER, w/MAGNET	1
664	✖	SCREW-#10-9 X 3/8 SS	1
666	✖	WASHER-#6, .625 OD, SS	2
668	✖	PLATE, BASE REINFORCEMENT	1
670	✖	SCREW- #8-11 X 1/2 SS	15
672	2265121	BUMPER, RUBBER SS	4
674	2373563	SCREW-#12-16 X 3/4 SS	4
▲	2377187	MANUAL,POS SENSE FT.PED,ULT	1
676	✖	TIE WRAP-4” BLACK(#21041)	4

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RAPTOR
SHALLOW WATER ANCHOR

TALON
SHALLOW WATER ANCHOR

How to Dominate in Shallow Water

A shallow water anchor revolutionizes the way you stay on fish. Both Raptor and Talon give fish nowhere to run and nowhere to hide. Zero in on your target by keeping your boat in the exact position and orientation you want, with a whisper-quiet anchor and no prop to disturb sediment or spook fish.

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Raptor and Talon can adjust their anchoring force based on what kind of bottom you're anchoring into, so you get the right amount of power you need for a secure hold in rocks, silt, mud or sand. Raptor can even sense the bottom automatically, dialing in the right amount of force for the job.

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Raise and lower your anchor from the unit, a dedicated remote control, wireless remote, Minn Kota Fishing App, or Minn Kota fish finder.

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