

ULTERRA™

BOW-MOUNT TROLLING MOTOR

Installation Instructions

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.

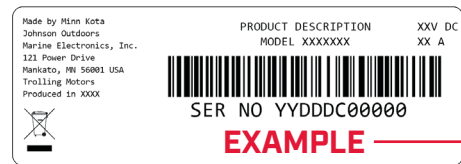
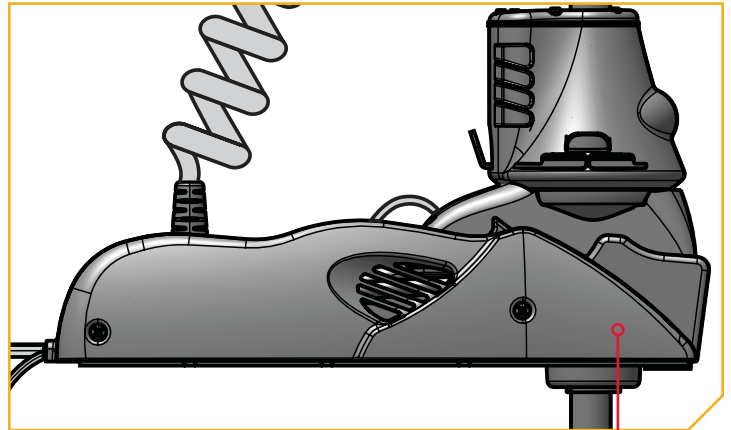
REGISTRATION

Remember to keep your receipt and immediately register your trolling motor. A registration card is included with your motor, or you can complete registration on our website at minnkota.johnsonoutdoors.com/us/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 on the Ulterra is located inside the Mount, near the Motor Ramp.



MOTOR INFORMATION (For Consumer Reference Only)

Model: _____

Serial Number: _____

Purchase Date: _____

Store Where Purchased: _____

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: calling Minn Kota at (800) 227-6433; returning your motor to the Minn Kota Factory Service Center; sending or taking your motor to any Minn Kota authorized service center. A list of authorized service centers is available on our website, minnkota.johnsonoutdoors.com. Please include proof of purchase, serial number and purchase date for warranty service with any of the above options.

Made for iPhone® 11 and iPhone X

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



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 Airphone 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 who lack the 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.

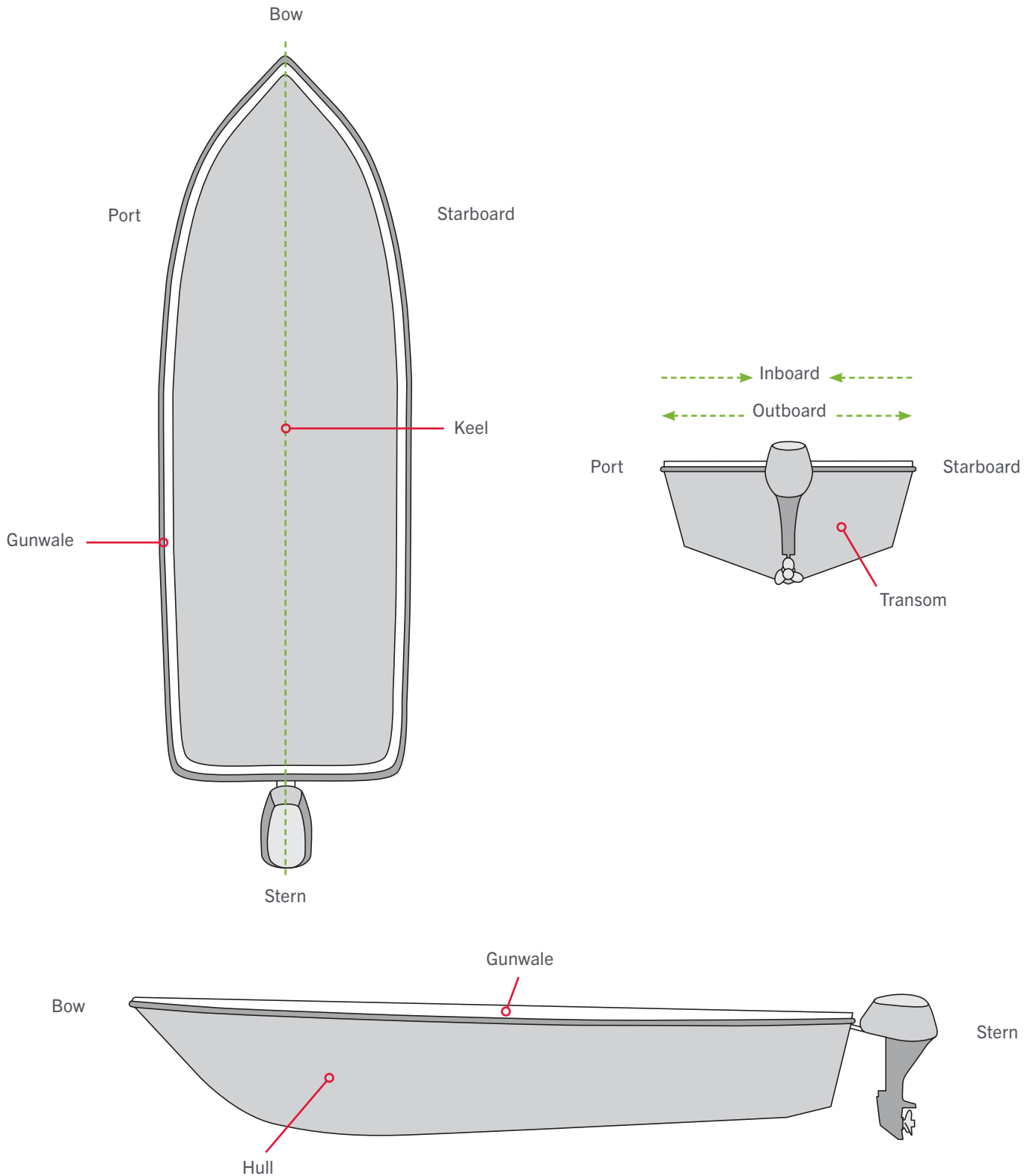
WARNING

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.

KNOW YOUR BOAT



INSTALLATION

INSTALLING THE ULTERRA

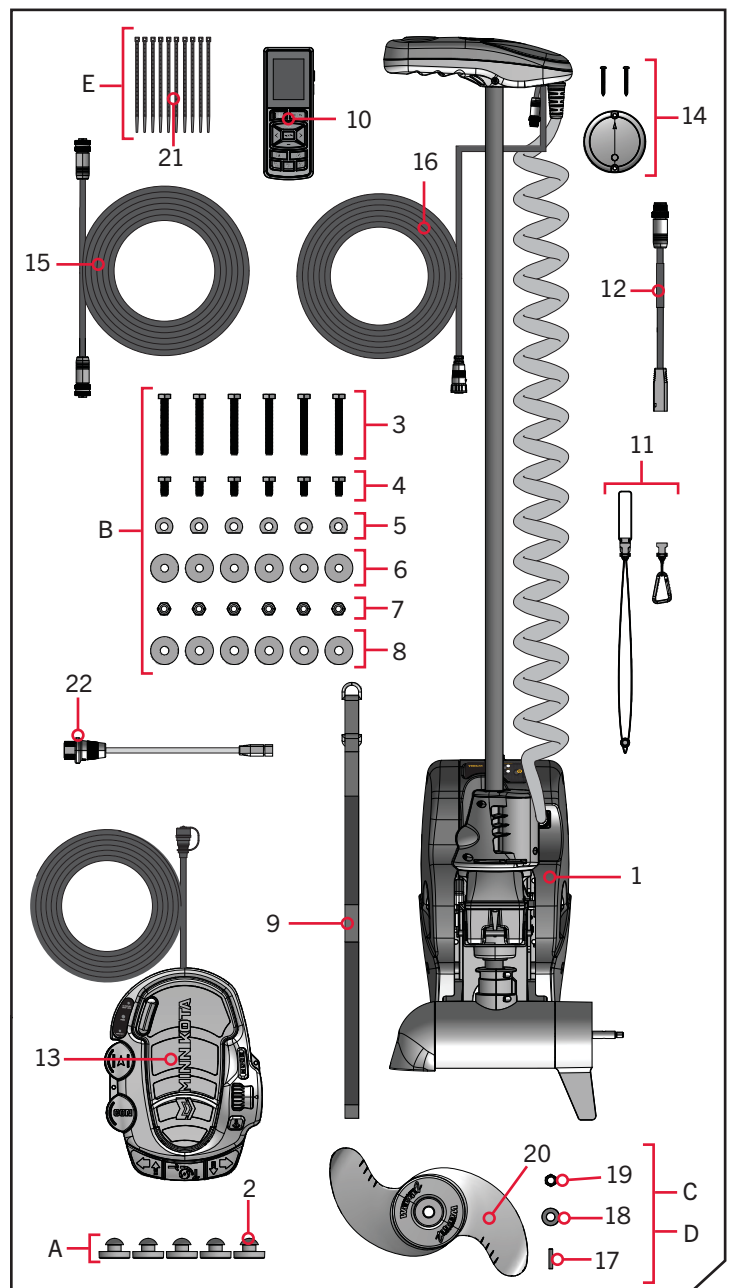
Your new Ulterra comes with everything you'll need to directly install it to the boat. This motor can be directly mounted to the boat or it may be coupled with a Minn Kota quick release bracket for ease of mounting and removal. For installation with a quick release bracket, refer to the installation instructions provided with the bracket. For more information on compatible quick release mounting brackets, please visit minnkota.johnsonoutdoors.com. To install the motor directly to the boat, please follow the instructions provided in this manual. Please review the parts list, mounting considerations and tools needed for installation prior to getting started. For additional product support and to locate your nearest dealer, please visit minnkota.johnsonoutdoors.com.

INSTALLATION PARTS LIST

Item /Assembly	Part #	Description	Qty.
1	✘	MOTOR ASSEMBLY	1
A (Includes 2)	2994859	BAG ASY-TERROVA/V2,RUB.BUMPERS	1
2	2325110	PAD,FOOT PEDAL PD	5
B (Includes 3-8)	2994917	BAG ASSY, ULTERRA MTG HARDWARE	1
3	2203430	SCREW-1/4-20 X 2.0 HHCS SS	6
4	2203431	SCREW-1/4-20 X 0.5 HHCS SS *FOR QRB*	6
5	2201725	WASHER-CLIPPED, 1/4", 1.00" OD	6
6	2261713	WASHER-1/4 FLAT 18-8 SS	6
7	2263103	NUT-1/4-20 NYLOCK SS	6
8	2301720	WASHER-MOUNTING - RUBBER	6
9	2203801	STRAP, HOLD DOWN, ULTERRA	1
10	411690-1	TROLLING MOTOR REMOTE	1
11	2390802	LANYARD w/CARABIN,IP RMT	1
12	490380-1	CABLE, ETHERNET PIGTAIL-700 HD	1
13	2994743	FT PEDAL ASM ULTERRA 1.5	1
14	2996400	HEADING SENSOR ASSEMBLY	1
15	490384-4	CABLE, ETHERNET (M12-M12), 30'	1
16	490575-3	CABLE, ADPTR, 14 PIN, 110"-DSC *DSC*	1
	490507-1	CABLE, ADP-INT MDI 14 M12-120" *MDI*	1
C (Includes 17-20)	1378132	PROP IND 2331160 WDLS WDG II *80LB THRUST*	1
D (Includes 17-20)	1378160	PROP KIT 2341160 112# WW2 *112LB THRUST*	1
17	2262658	PIN-DRIVE 1" X 3/16" S/S	1
18	2091701	WASHER-PROP (LARGE) MAX101	1
19	2093101	NUT-PROP,NYLOC,LG,MX101 3/8 SS	1
20	2331161	PROP-WW2 4" WELDED *80LB THRUST*	1
	2341161	PROP-WW2 4.5" WELDED *112LB THRUST*	1
E (Includes 21)	2996300	BAG ASM, TIE WRAPS, LOW PRO 4"	1
21	2206300	TIE, WRAP, LOW PROFILE 4"	10
22	2994961	BAG ASM, CABLE,ADPTR, 490537-2 *MKR-MI-1*	1
▲	2207121	MANUAL, ULTERRA 1.5	1
▲	2207122	MANUAL, INSTL GUIDE,ULT1.5	1
▲	2207123	QUICK. REF. GUIDE, ULT1.5	1
▲	2397110	MANUAL, iPILOT 4.0	1
▲	2397115	GUIDE-QUICK REFERENCE iP 4.0	1
▲	2394900	INSTRUCTIONS, HEADING SENSOR	1
▲	2294950	INSTRUCTIONS, OBN & REMOTE PAIR	1
▲	2207131	STANDARD QS SETUP GUIDE	1

▲ Not shown on Parts Diagram.

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



INSTALLING THE ULTERRA

MOUNTING CONSIDERATIONS

It is recommended that the motor be mounted as close to the keel or centerline of the boat as possible. Make sure the area under the mounting location is clear to drill holes and install nuts and washers. Make sure the motor rest is positioned far enough beyond the edge of the boat. The motor must not encounter any obstructions as it is lowered into the water or raised into the boat when stowed and deployed. Consider a quick release or adapter bracket with the installation of your motor. To view a list of accessories, please visit minnkota.johnsonoutdoors.com.



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

TOOLS AND RESOURCES REQUIRED

- #3 Phillips Screwdriver
- Drill
- 9/32" Drill Bit
- 7/16" Box End or Open End Wrench
- Awl or similar marking tool
- 9/16" Box End or Open End Wrench
- Pliers or Vise Grip
- Flat-Blade Screwdriver
- A second person to help with the installation

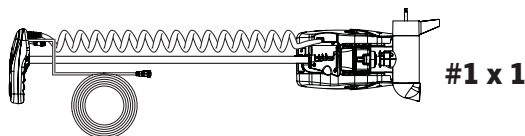
INSTALLATION

INSTALLING THE ULTERRA

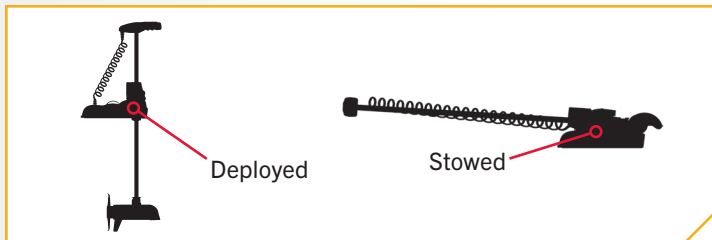
The following instructions describe how to mount the Ulterra directly to the boat deck. If installing the Ulterra with a Quick Release Bracket, refer to the document included with the Quick Release Bracket.

1

ITEM(S) NEEDED



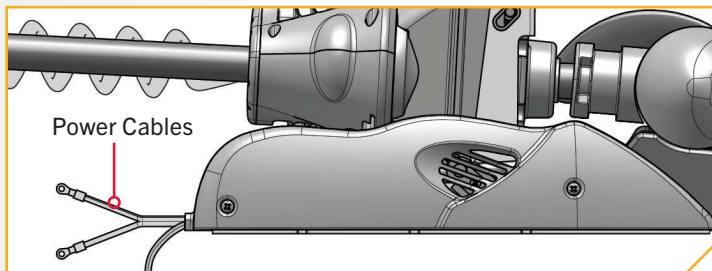
- Place the trolling motor (Item #1) on an elevated, level surface, such as a workbench or the tailgate of a pickup. The motor, as removed from the box, should be in the stowed position.
- Make sure the Power Cables are not connected to a power source or that the battery breaker, if equipped, is "off."



WARNING

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

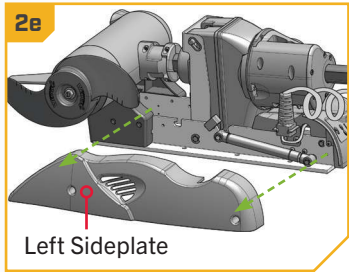
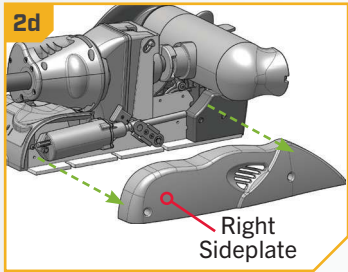
NOTICE: The trolling motor weighs approximately 70 lb. Minn Kota recommends having a second person help with the installation.



INSTALLING THE ULTERRA

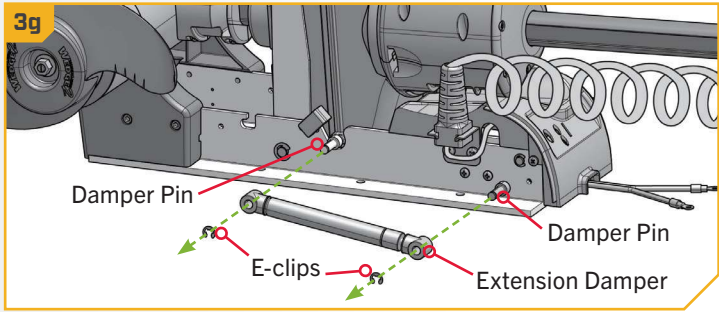
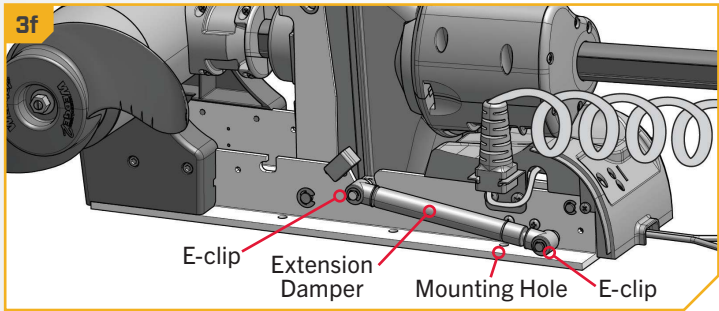
2

- c. Remove the four sideplate screws using a #3 Phillips Screwdriver. Two of these screws will be located on each side of the Motor Mount.
- d. Remove the Right Sideplate to access the Mounting Slots.
- e. Remove the Left Sideplate to access the Mounting Holes.



3

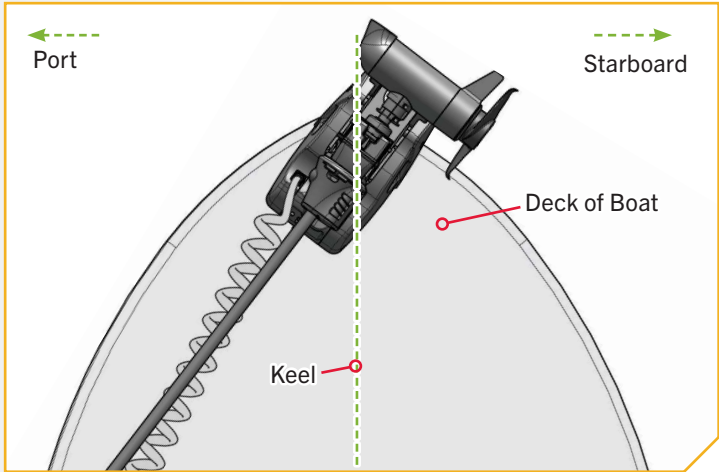
- f. Under the Left Sideplate, the Extension Damper obstructs access to the front-left Mounting Hole.
- g. Using a small Screwdriver, remove the two 5/16" E-clips holding the Extension Damper in place. Once the E-clips are removed, slide the Extension Damper off the Damper Pins to expose the front-left Mounting Hole. Set the two E-clips and Extension Damper in a safe place so that they are not misplaced. They will be reassembled later in the installation.



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- h. Review the mounting considerations at the beginning of the installation. Place the motor on the bow of the boat at the intended mounting location, as close to the centerline or keel as possible. The motor can be installed on either the Port or Starboard side of the boat based on personal preference.

NOTICE: The Emergency Strap (Item #9) is used for manually stowing the Ulterra. The Emergency Strap is not secured during installation. Store it on your boat in the event that you would need to manually stow the motor. To learn how, refer to the "Manually Stowing the Ulterra" section in the Ulterra Owner's Manual.



INSTALLING THE ULTERRA

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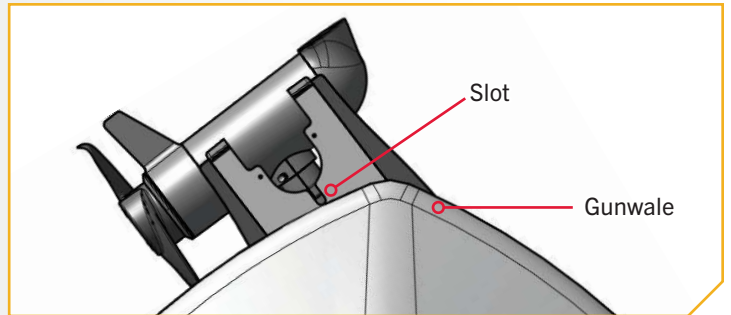
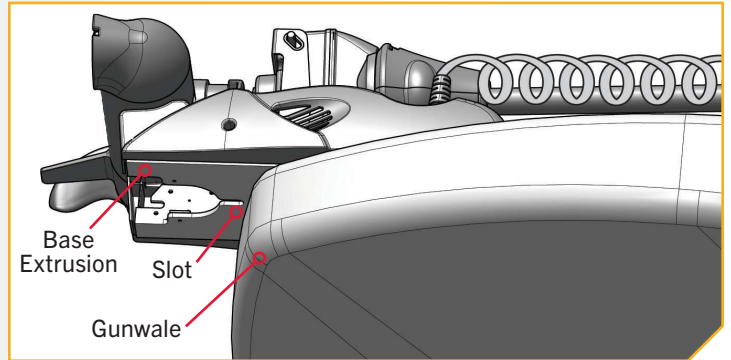
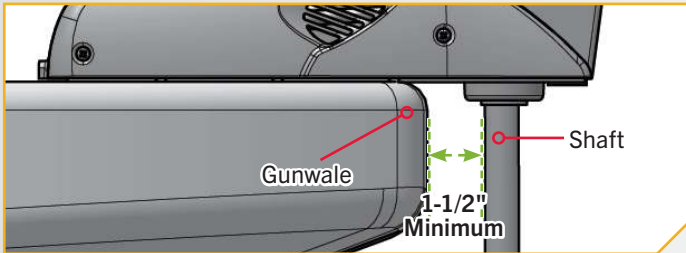
ITEM(S) NEEDED



WARNING

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

- i. Make sure the Slot on the underside of the Base Extrusion is aligned with the outermost part of the gunwale of the boat. This will ensure that the Shaft has a minimum required clearance of 1-1/2" when it is deployed. For proper clearance, the entire Slot must be visible beyond the gunwale. The lower unit, when stowed and deployed, must not encounter any obstructions.
- j. Check to be sure that the Motor is level. Use the Rubber Washers (Item #8) to create a level surface, if necessary.

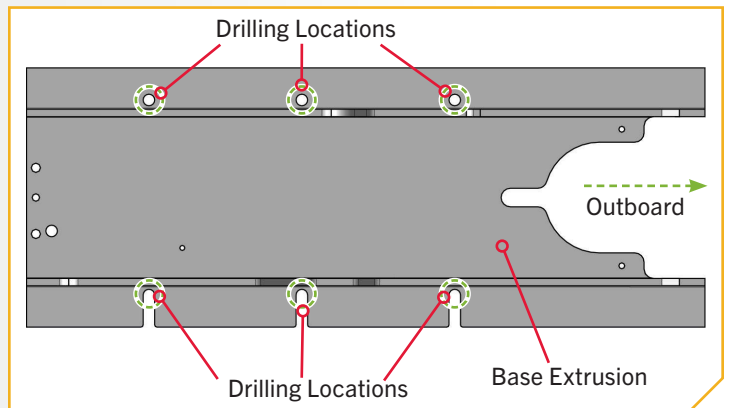


NOTICE: Failure to allow 1-1/2" of clearance for the Shaft when mounting may cause failures when the motor stows and deploys. Follow recommended mounting considerations to avoid obstructions when operating the motor.

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- k. With the motor at the intended mounting location, take an Awl or similar tool and mark all six mounting holes in the Base Extrusion.
- l. Make sure the area under the mounting location is clear to drill holes and install nuts and washers. Slide the motor aside to drill the mounting holes.
- m. Drill through the boat deck using a Drill and a 9/32" Drill Bit on all six marked locations.

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

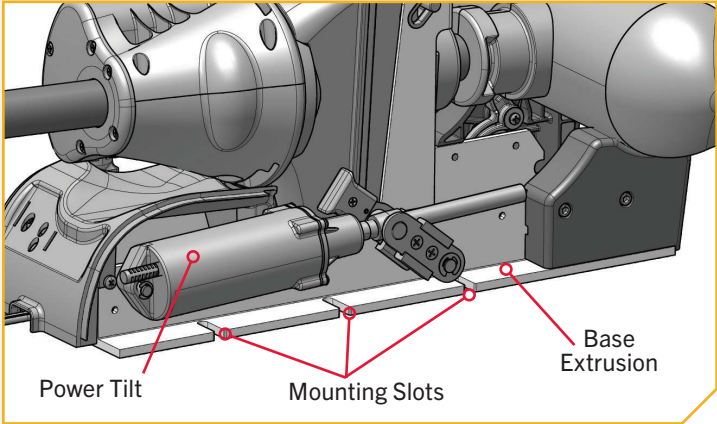


INSTALLING THE ULTERRA

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n. Mount the motor to the boat using the provided hardware. Begin with the side of the Base Extrusion that has the Power Tilt and Mounting Slots.

NOTICE: The Short Bolts (Item #4) are only used when installing the Ultrerra to a quick release bracket. If installing the Ultrerra to a quick release bracket, please refer to the instructions that came with the bracket for more information. Quick release bracket installation instructions can also be viewed online at minnkota.johnsonoutdoors.com.



8

ITEM(S) NEEDED



#3 x 3



#5 x 3



#6 x 3



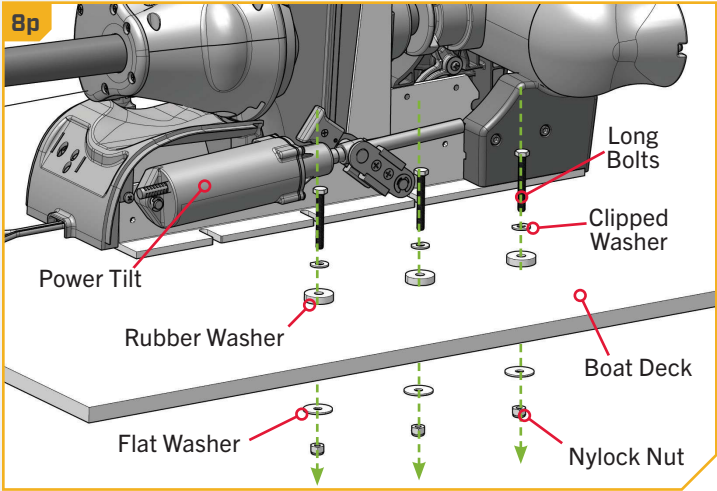
#7 x 3



#8 x 3

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

- o. If Rubber Washers (Item #8) are needed, place a Rubber Washer over each of the drilled holes.
- p. Take three each of the Long Bolts (Item #3) and Clipped Washers (Item #5). Place a Clipped Washer onto each Long Bolt, then insert the Long Bolts into the drilled locations. The Long Bolt should pass through the Clipped Washer, Rubber Washer (if used), and then the boat deck. Leave at least 1/4" space between the Clipped Washers and the boat deck or Rubber Washers. This will leave enough space to slide the Base Extrusion between the Clipped Washer and into place. Position the Clipped Washers so that the flat side of the washer faces toward the Base Extrusion.
- q. Place a Flat Washer (Item #6) and then a Nylock Nut (Item #7) at the end of each Long Bolt. Tighten with a 7/16" Box End Wrench.



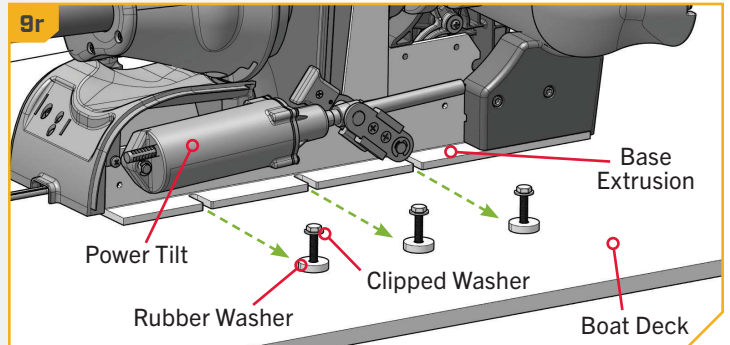
CAUTION

Use extra care to avoid pinching and damaging the sensor wires that run along the side of the Base Extrusion when installing and tightening mounting hardware.

INSTALLING THE ULTERRA

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- r. Slide the Base Extrusion into place under the Long Bolts that were just installed. The Base Extrusion should slide between the Clipped Washer and the Rubber Washer (if used). Hold the Clipped Washers up on the Long Bolt so the Clipped Washer will sit on top of the Base Extrusion. The flat side of the Clipped Washers should face the Base Extrusion.
- s. Ensure that all hardware is secure against the Base Extrusion.



10

ITEM(S) NEEDED



#3 x 3

#5 x 3



#6 x 3

#7 x 3



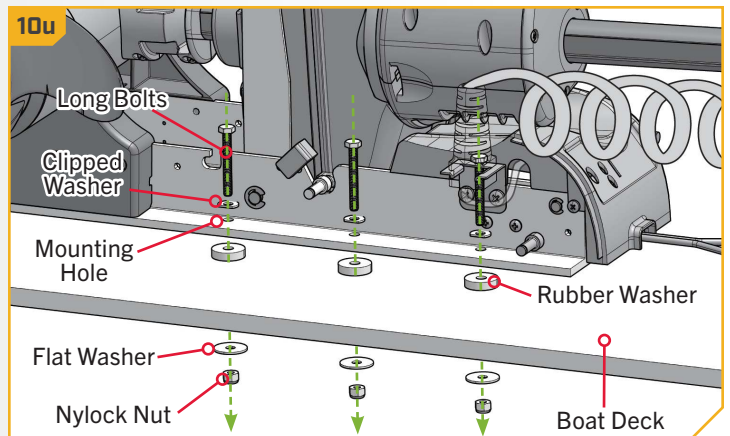
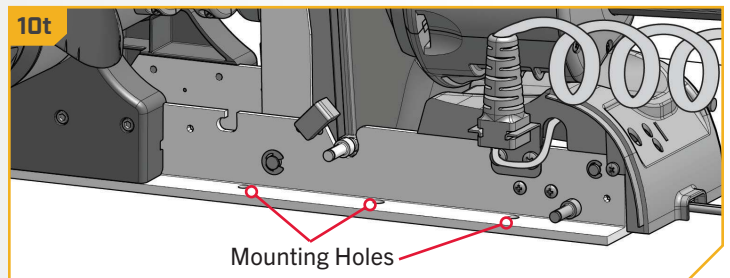
#8 x 3

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

- t. Move to the other side of the Base Extrusion to complete the installation. This side of the Motor has Mounting Holes and the Extension Damper. If Rubber Washers (Item #8) are used, put a Rubber Washer over each of the drilled holes.
- u. Take three each of the Long Bolts (Item #3) and Clipped Washers (Item #5). Place a Clipped Washer onto each Long Bolt, then insert the Long Bolts into the Mounting Holes. Position the Clipped Washers so that the flat side of the washer faces toward the Base Extrusion. The Long Bolt should pass through the Clipped Washer, Base Extrusion, Rubber Washer (if used), and into the boat deck.
- v. Place a Flat Washer (Item #6) and then a Nylock Nut (Item #7) at the end of each Long Bolt. Tighten with a 7/16" Box End Wrench. Make sure all hardware is secure.

CAUTION

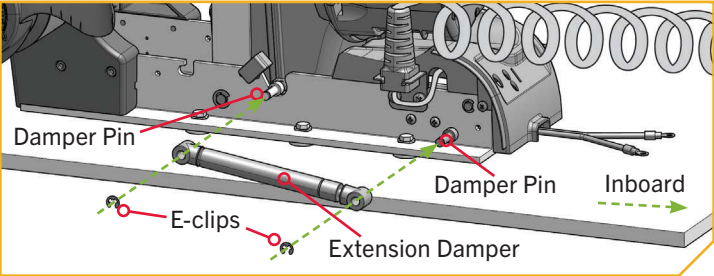
Use extra care to avoid pinching and damaging the sensor wires that run alongside the Base Extrusion when installing and tightening the mounting hardware.



INSTALLING THE ULTERRA

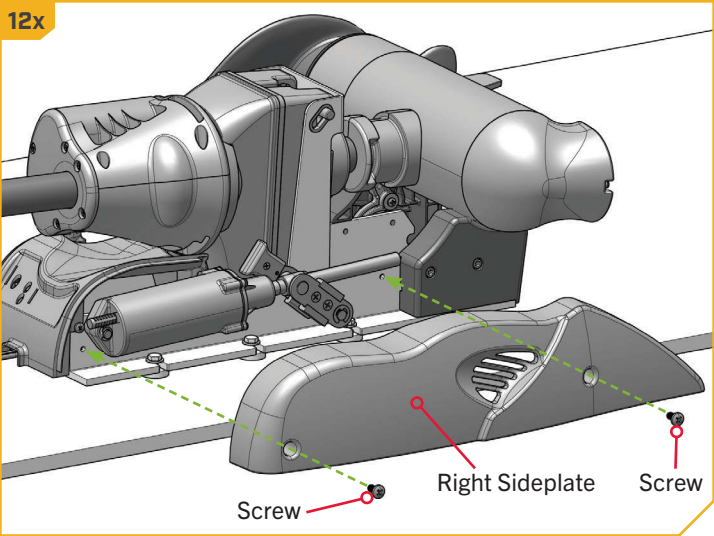
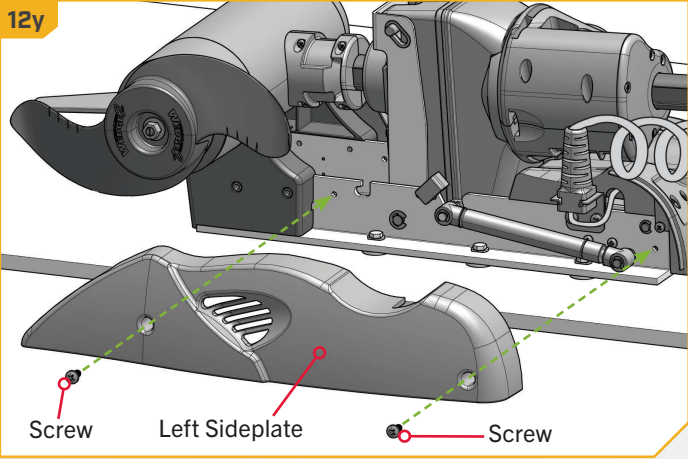
11

w. At this point in the installation process, the Motor should be secured to the deck of the boat and can now be reassembled. Slide the Extension Damper back in place on the Damper Pins. This should be done so the shaft on the Damper is pointing inboard. Reinstall the two 5/16" E-clips.



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- x. Replace the Right Sideplate.
- y. Replace the Left Sideplate.
- z. Replace the four Sideplate Screws using a #3 Phillips Screwdriver.



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				
		Amp	Minimum	5 feet	10 feet	15 feet	20 feet	25 feet
80 lb.	56	60 Amp	24 VDC	8 AWG	6 AWG	6 AWG	4 AWG	2 AWG
112 lb.	52	60 Amp	36 VDC	8 AWG	8 AWG	8 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. Maximum Amp Draw values only occur intermittently during select conditions and should not be used as continuous amp load ratings.

Reference

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

SELECTING THE CORRECT BATTERIES

SELECTING THE CORRECT BATTERIES

The motor will operate with any lead-acid, deep-cycle marine 12-volt battery/batteries. For best results, use a deep-cycle marine battery with at least a 105 amp-hour rating. Maintain battery at full charge. Proper care will ensure having battery power when you need it, and will significantly improve the 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. We offer a wide selection of chargers to fit your charging needs. If you are using a crank battery to start a gasoline outboard, we recommend that you use a separate deep-cycle marine battery/batteries for your Minn Kota trolling motor. For more information on battery selection and rigging, please visit minnkota.johnsonoutdoors.com. Minn Kota trolling motors can run on lithium-ion batteries. However, they are specifically designed to run on traditional lead-acid batteries (flooded, AGM or GEL). Lithium-ion batteries maintain higher voltages for longer periods of time than lead acid. Therefore, running a Minn Kota trolling motor at speeds higher than 85% for a prolonged period could cause permanent damage to the motor.

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-19 60-amp circuit breaker is recommended.

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 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.

› 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 following information.

CONNECTING THE BATTERIES IN SERIES

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.

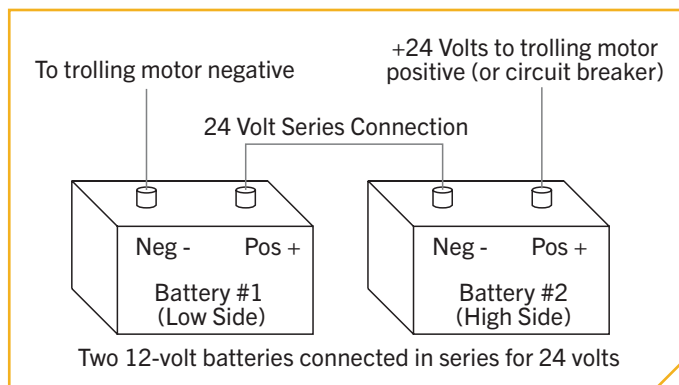
NOTICE: The internal bonding wire is equipped with a 3-amp fuse. Improper connections described above carrying in excess of 3 amps will blow this fuse and no further damage will be exhibited. If this occurs, RF interference from the trolling motor affecting sonar units and other electronics will be more significant. If the fuse is blown the wiring error should be found and addressed prior to replacing the fuse. The replacement fuse should be 3 amps or less. An intact fuse does not imply correct rigging; significant damage can be done by incorrect wiring without approaching 3 amps of current.

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.



⚠ 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

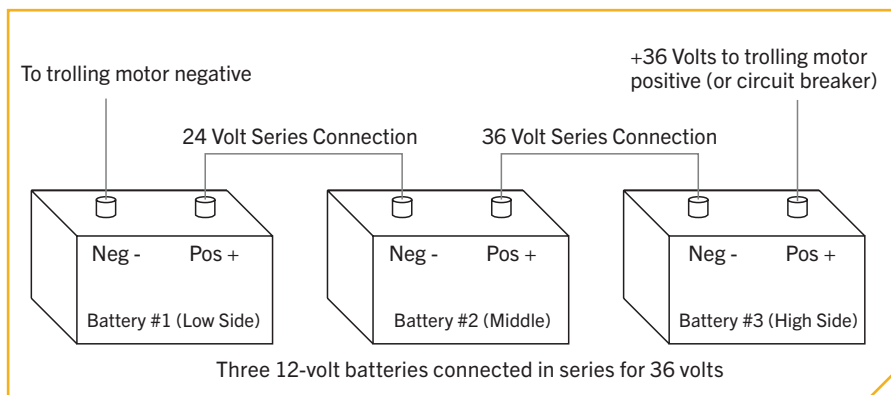
- For safety reasons, disconnect the motor from the battery or batteries when the motor is not in use or while the battery/batteries are being charged.
- Improper wiring of 24/36 volt systems could cause battery explosion.
- Keep leadwire wing nut connections tight and solid to battery terminals.
- Locate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

CONNECTING THE BATTERIES IN SERIES

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 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.



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.

COMPLETING THE INSTALLATION

COMPLETING THE ULTERRA INSTALLATION





This portion of the installation will cover how to verify power to the motor, install the Foot Pedal, and more. The installation will conclude with connecting Accessory Cables and installing the Prop.

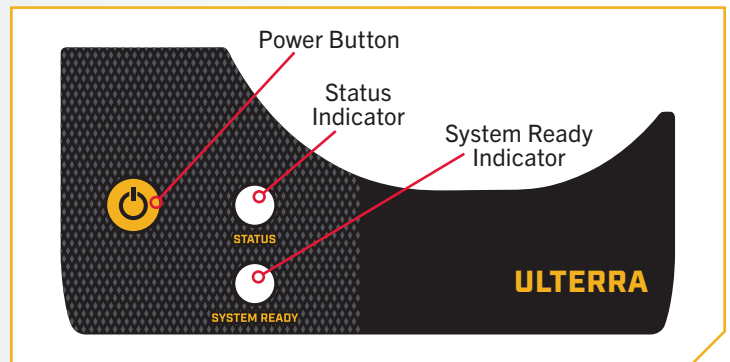
COMPLETING THE INSTALLATION >

> Verifying Power

To verify power to the trolling motor, connect the Ulterra 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 Ready  Indicator will be green.
- b. To turn the motor "off," press and hold the Power  button for approximately three seconds until the green light turns off. When the Motor is powered off, the System Ready  Indicator will not be illuminated.



> Installing the Heading Sensor

An external Heading Sensor (Item #14) is included with the Ulterra. The Heading Sensor provides boat heading information to the trolling motor. The boat heading is used for navigation features such as Spot-Lock Jog. For instructions on installing and calibrating the Heading Sensor, refer to the document provided with the Heading Sensor.

› Powering on the Wireless Remote

1







ITEM(S) NEEDED



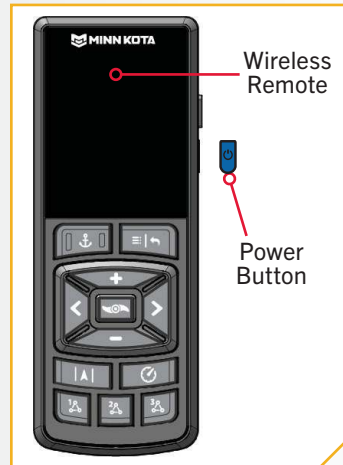
#10 x 1





#11 x 1

- Power on the trolling motor.
- To turn on the Wireless Remote (Item #10), press and hold the Power  button on the side of the Remote.
- A message will appear on the display screen. Read the disclaimer, then press the Steer Right  button to select "I Agree."
- 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.
- When the Advanced GPS Navigation system has obtained a minimum GPS signal strength of one bar, all remaining functions will become available.

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




Warning!
You are responsible for the safe and prudent operation of your boat. This product does not relieve you from the responsibility for safe operation of your boat.

I Agree 

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

NOTICE: Attaching the Lanyard (Item #11) to the Wireless Remote is optional.

INSTALLING THE FOOT PEDAL

› Installing the Foot Pedal

1

ITEM(S) NEEDED



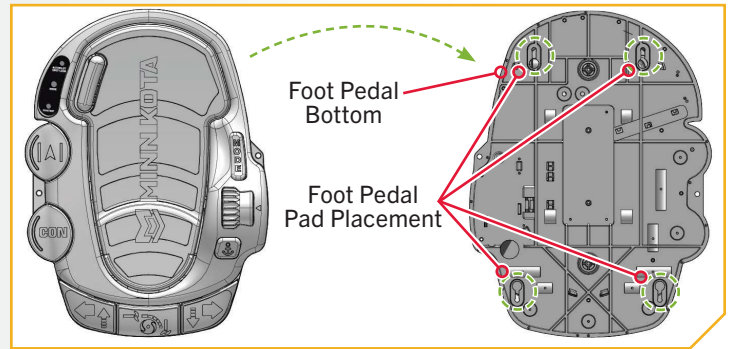
#13 x 1



#2 x 4

- Take the Foot Pedal (Item #13) and turn it over. Put a Foot Pedal Pad (Item #2) in each of the pad locations.

NOTICE: Adding the Foot Pedal pads is optional. The pads are recommended when using the Foot Pedal on non-carpeted surfaces.

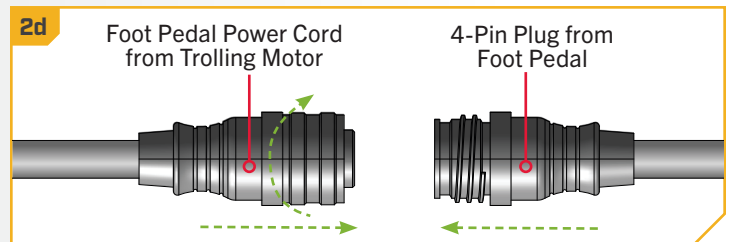
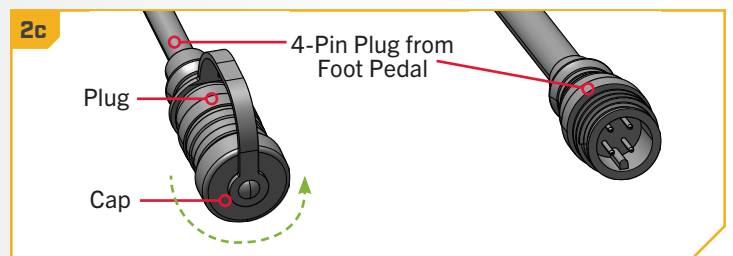
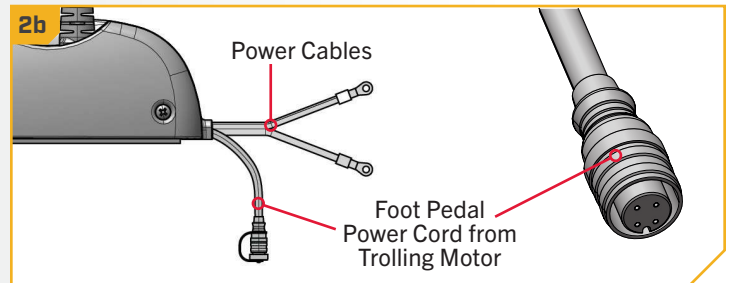


2

- Locate the Foot Pedal Power Cord that exits the Mount of the trolling motor, next to the Power Cables. Unscrew the Cap on the Plug at the end of the Foot Pedal Power Cord.
- Locate the 4-Pin Plug from the Foot Pedal and unscrew the Cap.
- Align the 4-Pin Plug from the Foot Pedal with the Plug from the trolling motor. Firmly push the Plugs together. Secure the connection by rotating the collar on the Foot Pedal Power Cord in a clockwise direction.

NOTICE: The connectors are keyed to prevent reversed installation.

NOTICE: When the Foot Pedal Power Cord is not in use, ensure that the Cap is on and firmly secured.

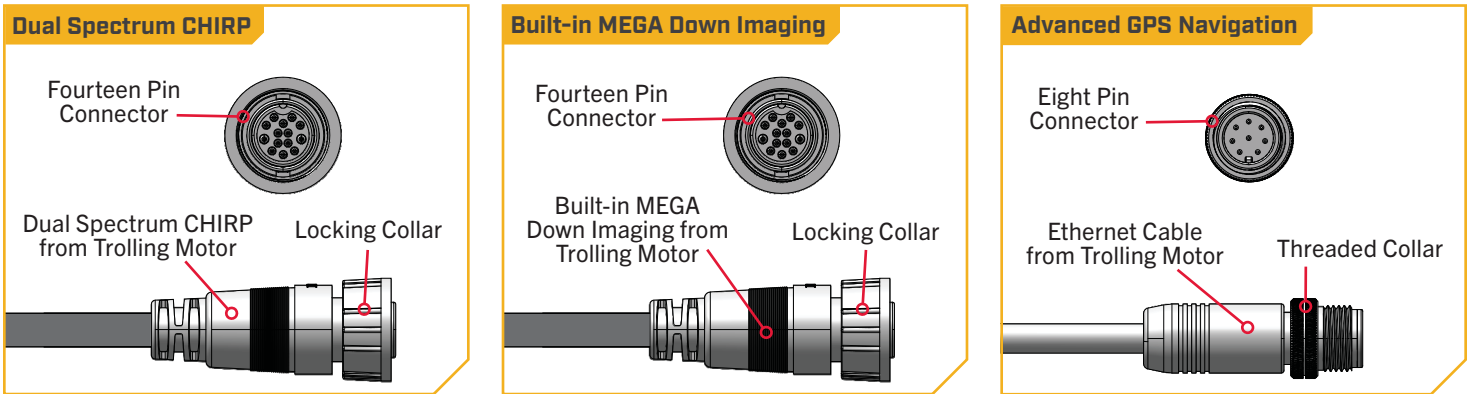


IDENTIFYING TROLLING MOTOR FEATURES BY THEIR ASSOCIATED CABLES

IDENTIFYING TROLLING MOTOR FEATURES AND THEIR ASSOCIATED CABLES

› Feature & Cable Identification

The Ulterra is pre-installed with Advanced GPS Navigation - including the ability to connect via Ethernet to a Humminbird unit. It is also installed with sonar, either Dual Spectrum CHIRP or Built-in MEGA Down Imaging. Dual Spectrum CHIRP and Built-in MEGA Down Imaging will be installed in combination with Advanced GPS Navigation. All of these features require Accessory Cables to be connected to an output device. The connectors are present on the trolling motor and have cables that exit below the Control Head or exit the Coil Cord at the base of the Mount. To better identify Accessory Cables present, refer to the diagrams that detail what the Dual Spectrum CHIRP, Built-in MEGA Down Imaging and Advanced GPS Navigation connectors look like.

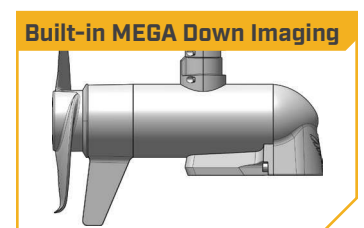
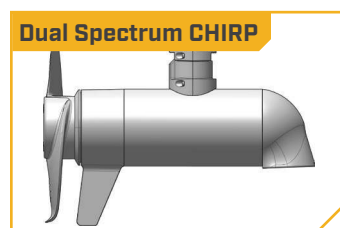
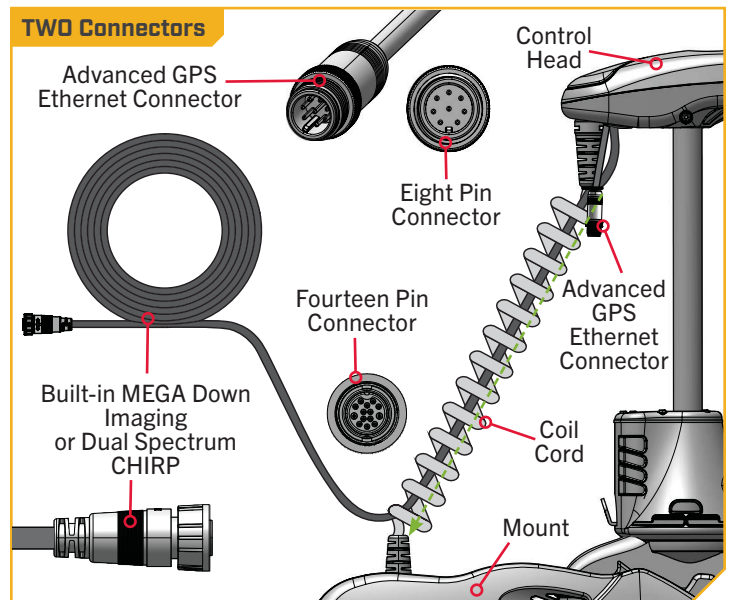


› Identifying Connectors

Every Ulterra will have **TWO** connectors present below the Control Head. The trolling motor will be equipped with:

Advanced GPS Navigation & Dual Spectrum CHIRP or Built-in MEGA Down Imaging - Advanced GPS Navigation is pre-installed on your trolling motor. One Eight Pin Advanced GPS Ethernet Connector will exit the base of the Control Head and be secured to the Coil Cord with a Cable Tie. If the Advanced GPS Navigation on the trolling motor will be used with a fish finder, an Ethernet Cable may be attached to the Advanced GPS Ethernet Connector below the Control Head. See the "Advanced GPS Navigation" section of this document for details on how to install the Advanced GPS Ethernet Connector to a Humminbird.

Dual Spectrum CHIRP or Built-in MEGA Down Imaging is pre-installed on your trolling motor. One Sonar Accessory Cable will exit the base of the Control Head and run down the center of the Coil Cord. The end of the Cable will have a Fourteen Pin Connector. Motors with Dual Spectrum CHIRP or Built-in MEGA Down Imaging will also have a transducer in the Lower Unit. The appearance of the transducer will vary depending on sonar type.



FEATURE & CABLE MANAGEMENT

› Feature & Cable Management

DUAL SPECTRUM CHIRP ›

Your trolling motor may be pre-installed with a transducer system featuring Humminbird's Dual Spectrum CHIRP. CHIRP stands for "Compressed High Intensity Radar Pulse." Dual Spectrum CHIRP is a 2D sonar transducer with a temperature sensor that is integrated into the lower unit of the trolling motor. Humminbird also utilizes a proprietary, best-in-class transducer designed and built to maximize fish detail, as well as coverage area. Dual Spectrum CHIRP scans the water for fish similar to the way the seek function on your truck's radio scans the airwaves for FM stations. By covering a wide range of frequencies, CHIRP produces more accurate, more detailed returns of fish, structure, and the bottom.

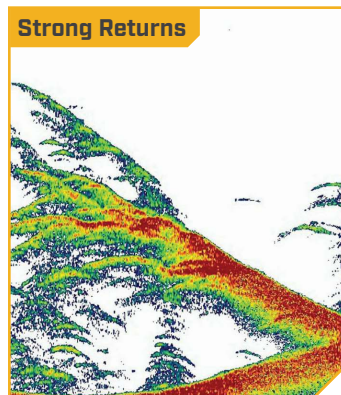
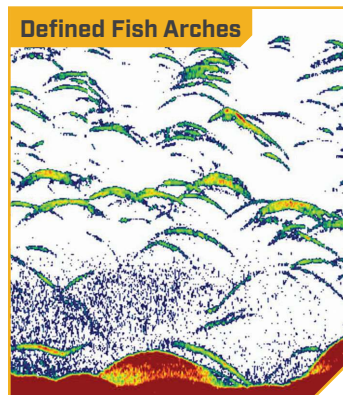
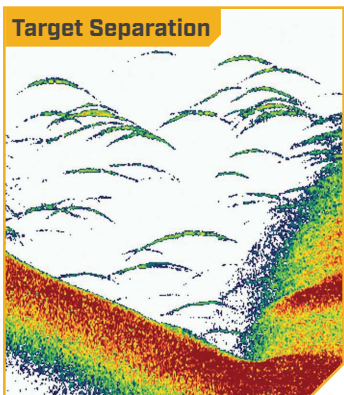
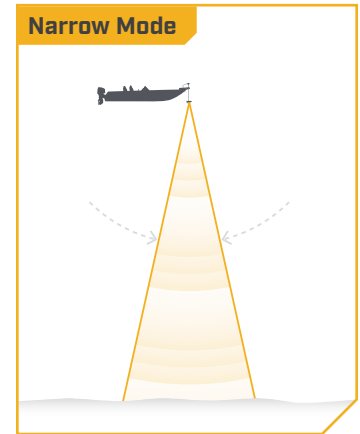
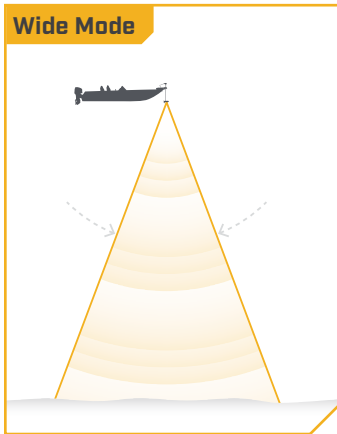
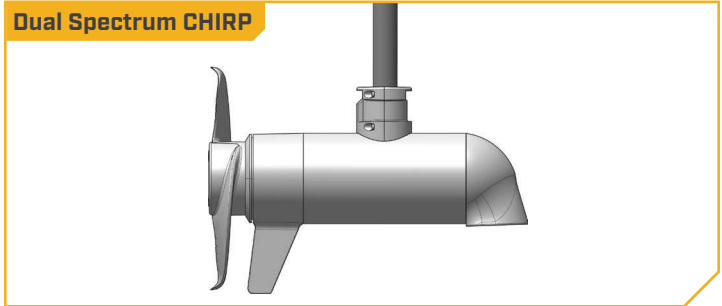
Humminbird's Dual Spectrum CHIRP gives you full spectrum capability, plus the power to select your own start and end frequencies by operating in two different modes. Wide Mode for maximum coverage and Narrow Mode for maximum detail. Wide mode allows you to search deep and wide. Is it used for watching your 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 you target individual fish, or identify fish hidden in structure and/or tight to the bottom.

Dual Spectrum CHIRP features:

SUPERIOR TARGET SEPARATION - Separating fish from their habitat is the name of the game. And now, you'll be able to tell the difference more easily between bait and game fish, and nearby structure and vegetation.

CLEARLY DEFINED FISH ARCHES - We've got bad news for your arch nemesis. Large game fish will show up on your screen as long, well-defined arches, for quick identification and accurate lure presentation.

STRONG RETURNS WITHOUT NOISE - Stop seeing things that aren't there. A high signal-to-noise ratio translates to better defined targets, less clutter and greater certainty that what you're looking at on-screen is legit.



The integrated design of the Dual Spectrum CHIRP transducer protects it in the lower unit of the trolling motor from underwater hazards and prevents tangles and damage to the transducer cables. In certain situations, air bubbles may adhere to the surface of the Dual Spectrum CHIRP transducer and affect the performance. If this happens, simply wipe the surface of the transducer with your finger.

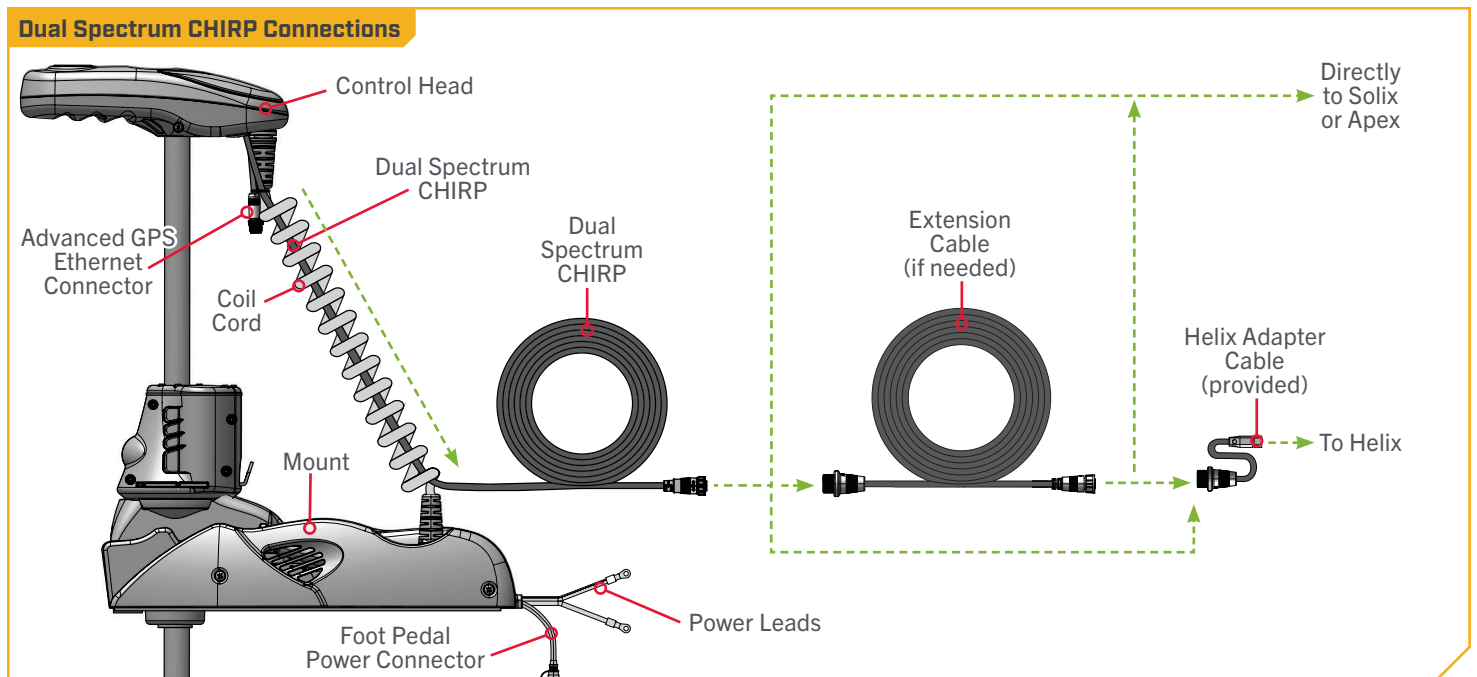
› Considerations for Connecting and Routing Dual Spectrum CHIRP

If Dual Spectrum CHIRP is pre-installed on your trolling motor, one Dual Spectrum CHIRP accessory cable will exit the base of the Control Head and run down the center of the Coil Cord. Dual Spectrum CHIRP requires cables to be connected to an output device such as a Humminbird® fish finder. The Dual Spectrum CHIRP cable that exits the Coil Cord is "Apex and Solix Ready." Connecting the trolling motor equipped with a Dual Spectrum CHIRP transducer to a compatible fish finder gives you a 2D sonar view of what is happening directly below your trolling motor. To determine if your fish finder is compatible with Dual Spectrum CHIRP, please visit minnkota.johnsonoutdoors.com to check compatibility. The Dual Spectrum CHIRP cable from the trolling motor may be plugged directly into a Solix or Apex, directly into an Extension Cable or directly into a Humminbird® Helix Adapter Cable.

EXTENSION CABLES - The Dual Spectrum CHIRP cable from the trolling motor may not be long enough to reach your fish finder. If the cable length does not reach the desired fish finder installation location, extension cables are available. A 10-foot extension cable (EC M3 14W10 - 10' transducer extension cable - 720106-1) and a 30-foot extension cable (EC M3 14W30 - 30' transducer extension cable - 720106-2) are available from humminbird.johnsonoutdoors.com. Both the 10-foot and 30-foot extension cables also come "Apex and Solix Ready." The Extension Cables may plug directly into a Solix or Apex or directly into a Helix Adapter Cable.

HUMMINBIRD HELIX ADAPTER CABLES - If connecting to a Humminbird® Helix fish finder, an adapter cable accessory is included that will allow the connection of any compatible Humminbird® Helix fish finder. The Helix adapter cable will plug directly into the Helix fish finder.

OTHER FISH FINDER ADAPTER CABLES - If connecting to other fish finders on the market, check for compatibility or any required adapter cables online at minnkota.johnsonoutdoors.com.



DUAL SPECTRUM CHIRP

All Dual Spectrum CHIRP Ulterra motors 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. Please refer to the "Battery & Wiring Installation" section of this manual for correct rigging instructions. Review the "Motor Wiring Diagram" section in the Ulterra Owner's Manual, available online at minnkota.johnsonoutdoors.com.

The Dual Spectrum CHIRP 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 on routing the cables to optimize mobility and maximize functionality. Follow the instructions below for completing all connections and then follow the instructions for "Securing Accessory Cables" to complete the output cable installation.

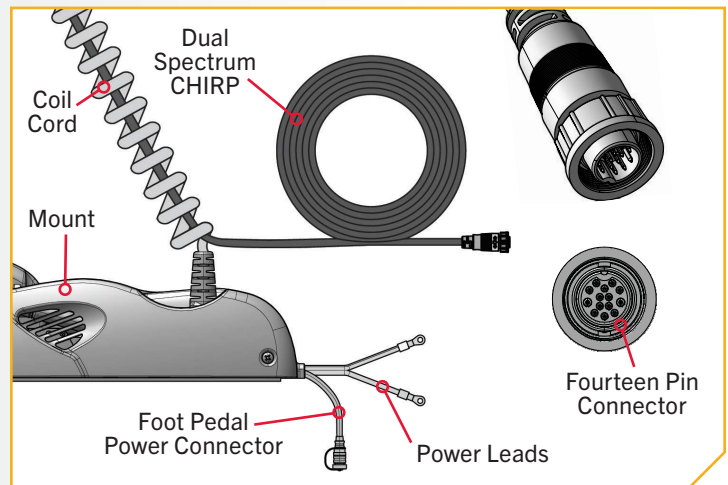
CAUTION

Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void your 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 ties as it may damage the wires.

1

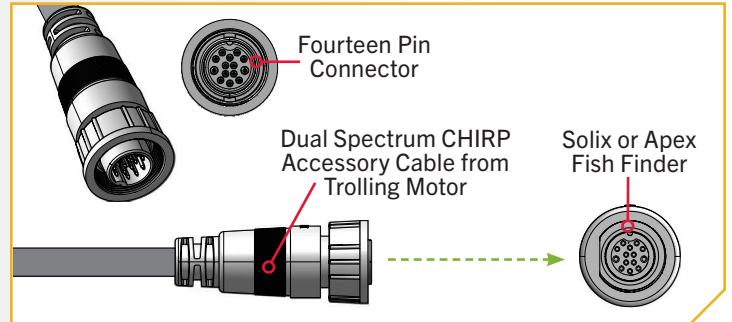
NOTICE: Your fish finder should be turned off until this procedure is complete.

- a. Place the motor in the deployed position.
- b. Locate the Fourteen Pin Connector on the end of the Dual Spectrum CHIRP accessory cable. The cable will exit the base of the Control Head and run down the center of the Coil Cord.
- c. Determine if the Plug on the end of the Dual Spectrum CHIRP accessory cable will be attached directly to:
 - 1) a Humminbird® Solix or Apex fish finder,
 - 2) a Dual Spectrum CHIRP Extension Cable,
 - 3) a Helix Adapter Cable or a compatible fish finder adapter cable.



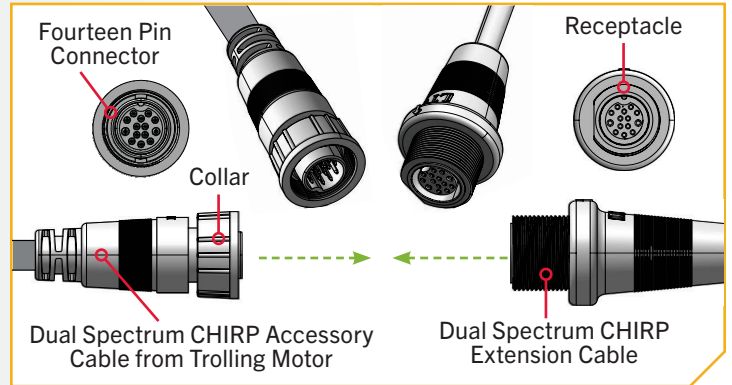
2

- d. If installing directly to a Solix or Apex, the connection will be flat on the back of the fish finder display.
- e. Align the pins on the Accessory Cable with the receptacle on the fish finder. Notice the keyed connectors. Tighten the Collar from the accessory cable to secure the connection. Once directly installed to the Solix or Apex, the connection is complete.



3

- f. If installing directly to a Dual Spectrum CHIRP Extension Cable, align the pins on the accessory cable with the receptacle on the extension cable. Notice the keyed connectors. Tighten the Collar from the accessory cable to secure the connection.
- g. If the Dual Spectrum CHIRP extension cable will be attached directly to a Humminbird® Solix or Apex, the connection will look exactly like the installation directly into a Humminbird Solix or Apex fish finder.



NOTICE: A 10-foot extension cable (EC M3 14W10 - 10' transducer extension cable - 720106-1) and a 30-foot extension cable (EC M3 14W30 - 30' transducer extension cable - 720106-2) are available from humminbird.johnsonoutdoors.com.

DUAL SPECTRUM CHIRP

4

ITEM(S) NEEDED

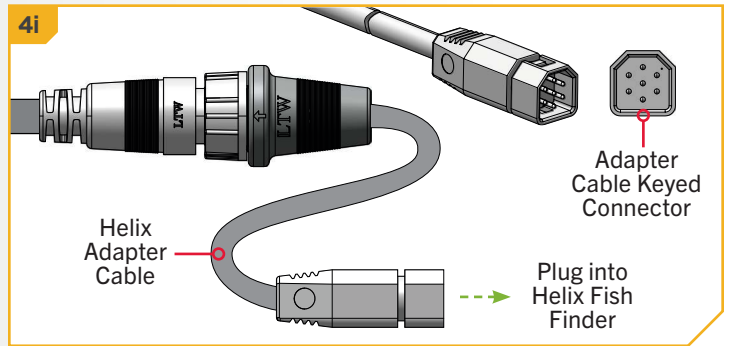
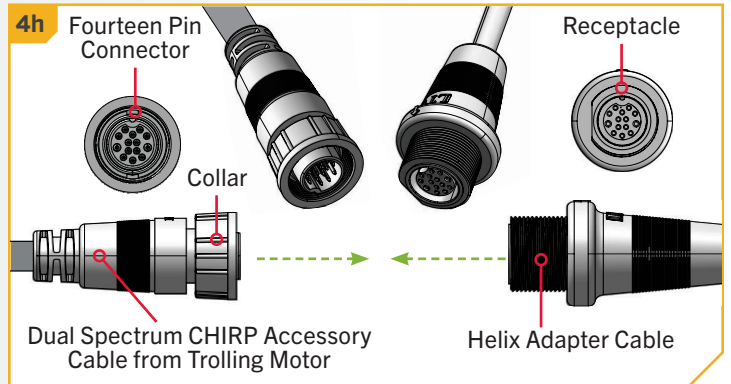


- h. If installing directly to a Helix Adapter Cable, align the pins on the accessory cable or extension cable with the receptacle on the Helix Adapter Cable (Item #22). Notice the keyed connectors. Tighten the Collar from the accessory cable or extension cable to secure the connection.
- i. If the Helix Adapter Cable will be attached directly to a Humminbird® Helix, plug it in the Helix Adapter Cable Keyed Connection on the back of the fish finder.

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

- j. If the trolling motor has more than one external connector for an output device, complete the connection for that specific output and then follow the instructions for "Securing Accessory Cables" to complete the output cable installation.

NOTICE: If unsure of what features the trolling motor may be installed with that require connection to an output device, please review the "Identifying Trolling Motor Features and Their Associated Cables" section in this document.



BUILT-IN MEGA DOWN IMAGING >

Built-in MEGA Down Imaging delivers nearly 3X the output of standard Side Imaging®, and takes fishfinding into the megahertz frequency for the very first time. It uses a razor-thin, high-frequency beam to create picture-like images of structure, vegetation and fish. With Humminbird MEGA imaging sonar built right into the trolling motor, you now have a crystal clear view of what's directly beneath the boat, without having to manage all of the cables that come with external transducers. The Built-in MEGA DI transducer is only available on new models equipped from the factory and cannot be added to an existing trolling motor.

> Considerations for Connecting and Routing Built-in MEGA Down Imaging

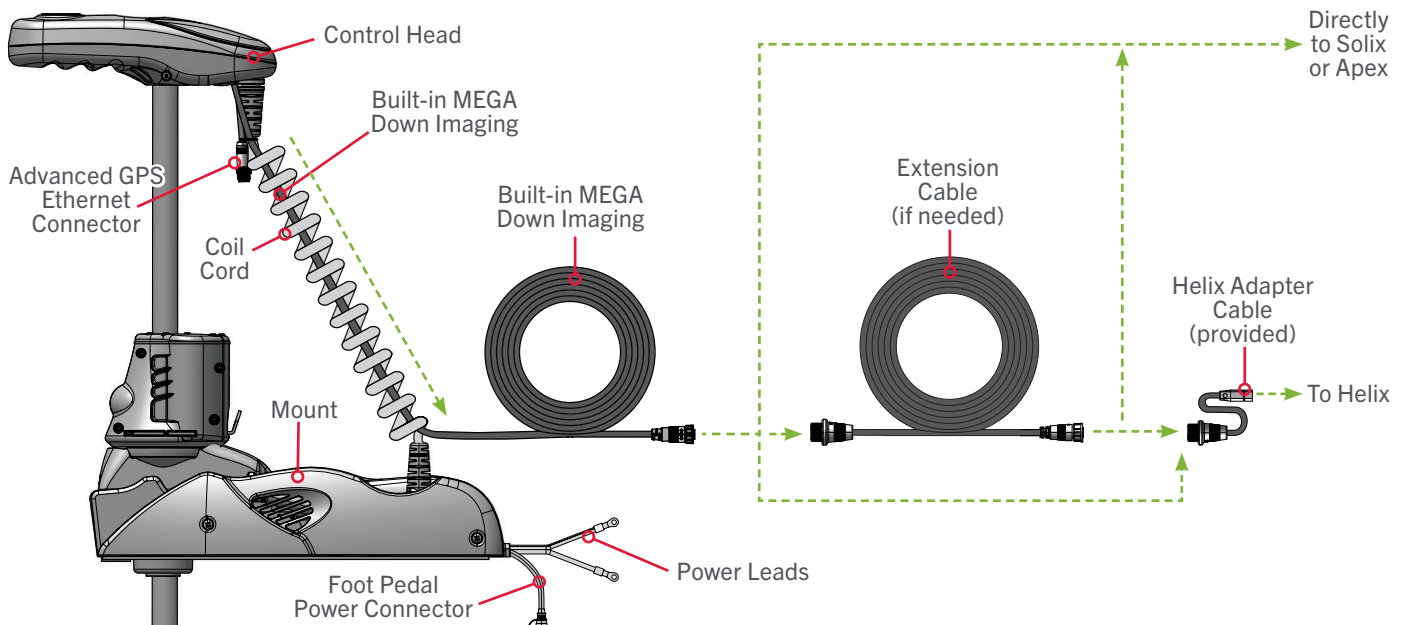
If Built-in MEGA Down Imaging is pre-installed on your trolling motor, one Built-in MEGA Down Imaging accessory cable will exit the base of the Control Head and run down the center of the Coil Cord. Built-in MEGA Down Imaging requires cables to be connected to an output device such as a Humminbird® fish finder. The Built-in MEGA Down Imaging cable that exits the Coil Cord is "Apex and Solix Ready." Connecting the trolling motor equipped with a Built-in MEGA Down Imaging transducer to a compatible fish finder gives you a 2D sonar view of what is happening directly below your trolling motor. To determine if your fish finder is compatible with Built-in MEGA Down Imaging, please visit minnkota.johnsonoutdoors.com to check compatibility. The Built-in MEGA Down Imaging cable from the trolling motor may be plugged directly into a Solix or Apex, directly into an Extension Cable or directly into a Humminbird® Helix Adapter Cable.

EXTENSION CABLES - The Built-in MEGA Down Imaging cable from the trolling motor may not be long enough to reach your fish finder. If the cable length does not reach the desired fish finder installation location, extension cables are available. A 10-foot extension cable ([EC M3 14W10 - 10' transducer extension cable - 720106-1](#)) and a 30-foot extension cable ([EC M3 14W30 - 30' transducer extension cable - 720106-2](#)) are available from humminbird.johnsonoutdoors.com. Both the 10-foot and 30-foot extension cables also come "Apex and Solix Ready." The Extension Cables may plug directly into a Solix or Apex or directly into a Helix Adapter Cable.

HUMMINBIRD HELIX ADAPTER CABLES - If connecting to a Humminbird® Helix fish finder, an adapter cable accessory is included that will allow the connection of any compatible Humminbird® Helix fish finder. The Helix adapter cable will plug directly into the Helix fish finder.

OTHER FISH FINDER ADAPTER CABLES - If connecting to other fish finders on the market, check for compatibility or any required adapter cables online at minnkota.johnsonoutdoors.com.

Built-in MEGA Down Imaging Connections



BUILT-IN MEGA DOWN IMAGING

CAUTION

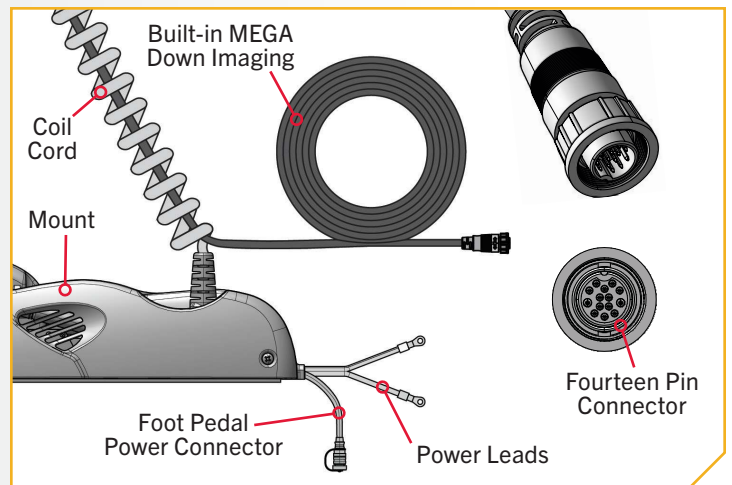
Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void your product warranty. Route cables away from pinch points or other areas that may cause them to bend in sharp angles. Routing the cables in any way other than directed may cause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

NOTICE: You can only view Down Imaging with a MEGA DI or MEGA SI HELIX G2N, G3N or G4N Series model and a required adapter, or with any SOLIX or APEX Series model. The built-in transducer cannot supply MEGA Imaging to Humminbird models that do not already have the capability. If you have a G2/G2N, G3/G3N, G4/G4N HELIX that is not a MEGA SI or MEGA DI model, you will still get 2D Dual Spectrum CHIRP Sonar from the transducer. SOLIX G1 and HELIX G2 and G2N units need to be running the latest software update to view sonar with Built-in MEGA Imaging. You can get the latest version of software for your fish finder on humminbird.johnsonoutdoors.com. Built-in MEGA Imaging is not supported by HELIX G1 models or other brands of fish finders.

1

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

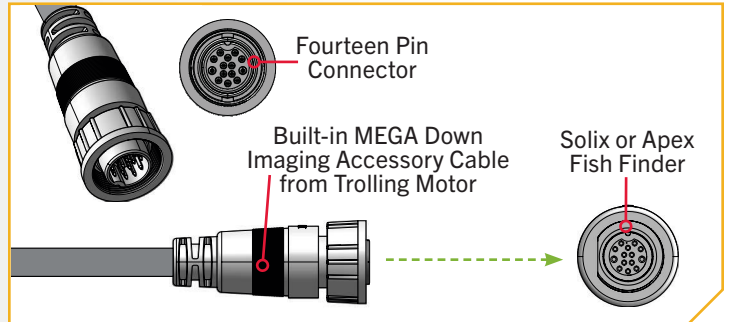
- a. Place the motor in the deployed position.
- b. Locate the Fourteen Pin Connector on the end of the Built-in MEGA Down Imaging accessory cable. The cable will exit the base of the Control Head and run down the center of the Coil Cord.
- c. Determine if the Plug on the end of the Built-in MEGA Down Imaging Cable accessory cable will be attached directly to:
 - 1) a Humminbird® Solix or Apex fish finder,
 - 2) a Built-in MEGA Down Imaging Extension Cable,
 - 3) a Helix Adapter Cable or a compatible fish finder adapter cable.



BUILT-IN MEGA DOWN IMAGING

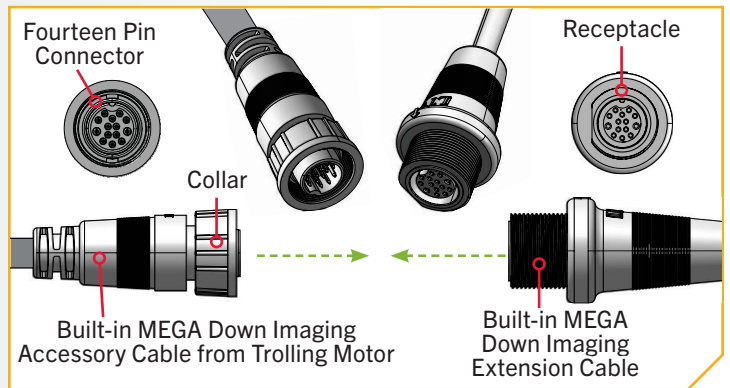
2

- d. If installing directly to a **Solix or Apex**, the connection will be flat on the back of the fish finder display.
- e. Align the pins on the Accessory Cable with the receptacle on the fish finder. Notice the keyed connections. Tighten the Collar from the accessory cable to secure the connection. Once directly installed to the Solix or Apex, the connection is complete.



3

- f. If installing directly to a **Built-in MEGA Down Imaging Extension Cable**, align the pins on the accessory cable with the receptacle on the extension cable. Notice the keyed connectors. Tighten the Collar from the accessory cable to secure the connection.
- g. If the Built-in MEGA Down Imaging Extension Cable will be attached directly to a Humminbird® Solix or Apex, the connection will look exactly like the installation directly into a Humminbird Solix or Apex fish finder.



NOTICE: A 10-foot extension cable (EC M3 14W10 - 10' transducer extension cable - 720106-1) and a 30-foot extension cable (EC M3 14W30 - 30' transducer extension cable - 720106-2) are available from humminbird.johnsonoutdoors.com.

BUILT-IN MEGA DOWN IMAGING

4

ITEM(S) NEEDED

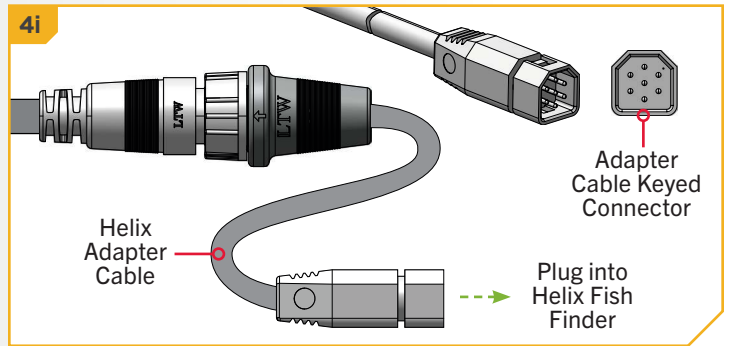
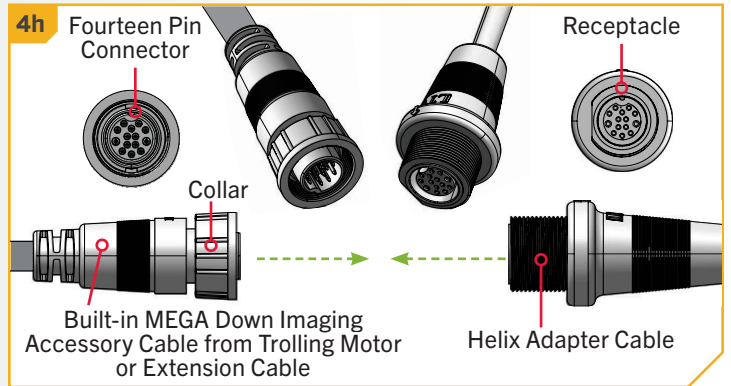


- h. If installing directly to a Helix Adapter Cable, align the pins on the accessory cable or extension cable with the receptacle on the Helix Adapter Cable (Item #22). Notice the keyed connectors. Tighten the Collar from the accessory cable or extension cable to secure the connection.
- i. If the Helix Adapter Cable will be attached directly to a Humminbird® Helix, plug it in the Helix Adapter Cable Keyed Connection on the back of the fish finder.

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

- j. If the trolling motor has more than one external connector for an output device, complete the connection for that specific output and then follow the instructions for "Securing Accessory Cables" to complete the output cable installation.

NOTICE: If unsure of what features the trolling motor may be installed with that require connection to an output device, please review the "Identifying Trolling Motor Features and Their Associated Cables" section in this document.



ADVANCED GPS NAVIGATION >

Your Minn Kota trolling motor and Humminbird fish finder communicate with each other to change the way you fish. Advanced GPS Navigation offers a large array of features including controlling speed, steering, Spot-Lock, and the ability to record and retrace paths on the water, all at your fingertips. 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.

The wireless remote and GPS controller make up the Advanced GPS Navigation system. A wireless remote comes paired to the controller from the factory. The GPS controller contains a very sensitive compass and is where all GPS satellite and remote signals are received. The GPS controller is located in the trolling motor Control Head and may be connected to a fish finder from a connection cable that exits the Control Head. If the Advanced GPS Navigation system will be used with a fish finder, the Ethernet link between the trolling motor and the fish finder should be connected.

> Considerations for Connecting and Routing Advanced GPS Navigation

If Advanced GPS Navigation is pre-installed on your trolling motor, one eight-pin Advanced GPS Ethernet Connector will exit the base of the Control Head and dangle just below the Control Head next to the Coil Cord. If the Advanced GPS Navigation on the trolling motor will be used with a fish finder, an Ethernet Cable will need to be attached to the Advanced GPS Ethernet Connector below the Control Head. Consider the distance between the trolling motor and the fish finder to determine how to complete the Ethernet connection.

ETHERNET CABLES - Minn Kota provides one 30 ft Ethernet cable (**AS EC 30E - 30' Ethernet Cable - 720073-4**) with every trolling motor equipped with Advanced GPS Navigation. The 30 ft Ethernet cable will accommodate a standard Ethernet connection for most installations to a Humminbird fish finder and is "Apex and Solix Ready." If the distance between the trolling motor and Humminbird fish finder is relatively small and a shorter cable is preferred, alternate cable lengths are available from humminbird.johnsonoutdoors.com. These options include:

- 10 ft - (**AS EC 10E - 10' Ethernet Cable - 720073-2**)
- 15 ft - (**AS EC 15E - 15' Ethernet Cable - 720073-5**)
- 20 ft - (**AS EC 20E - 20' Ethernet Cable - 720073-3**)

Every length of Ethernet cable plugs directly into a Solix or Apex or directly into a Helix Adapter Cable.

HUMMINBIRD HELIX ADAPTER CABLES - Minn Kota provides one Helix Adapter Cable (**AS EC QDE - Ethernet Adapter Cable - 720074-1**) with every trolling motor equipped with Advanced GPS Navigation. If the Ethernet connection is being made between the trolling motor and any Humminbird® Helix fish finder, the Helix Adapter Cable should be used. The Helix Adapter Cable directly connects the Ethernet Cable to a Helix fish finder.

ETHERNET EXTENSION CABLES - If the 30 ft Ethernet cable provided with your trolling motor with Advanced GPS Navigation is not long enough to reach the fish finder, an Ethernet Extension cable should be used. The Ethernet Extension cable is available from humminbird.johnsonoutdoors.com and is available in a 30 ft length (**AS ECX 30E - 30' Ethernet Extension Cable - 760025-1**). The Ethernet Extension Cable will plug directly into any length of Ethernet cable.

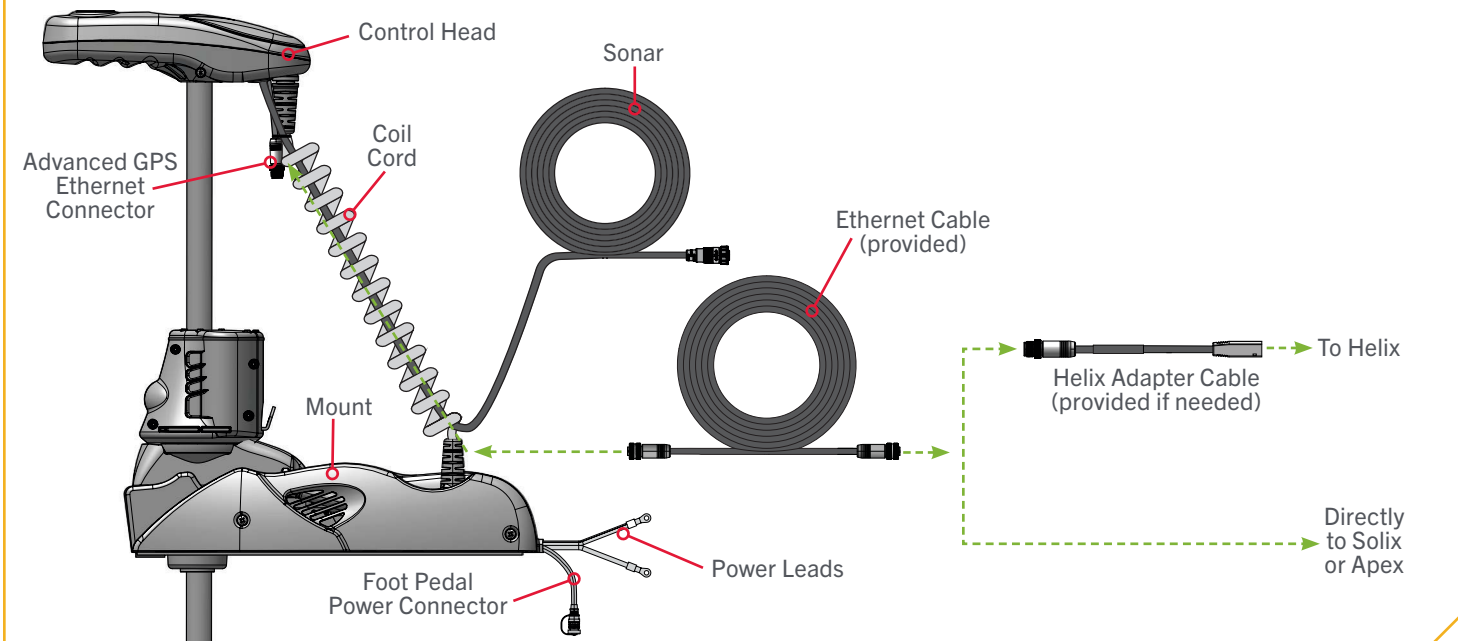
NOTICE: Minn Kota recommends routing the Ethernet Cable or Ethernet Extension Cable through the Coil Cord when making the Ethernet connection. The cables will be installed from the Mount to the Control Head through the Coil Cord and parallel to any Dual Spectrum CHIRP or Built-in MEGA Down Imaging Cable. Bypassing the Coil Cord when routing the Ethernet Cable or Ethernet Extension Cable is not recommended.

CAUTION

Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void your 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 cable ties as it may damage the wires.

ADVANCED GPS NAVIGATION

GPS Ethernet Connection



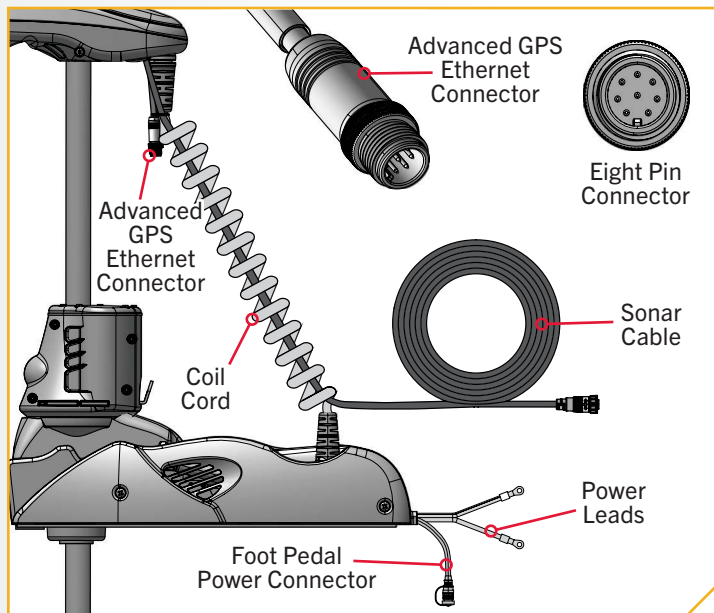
1

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

- a. Place the motor in the deployed position.
- b. Locate the Eight Pin Advanced GPS Ethernet Connector below the Control Head. The Advanced GPS Ethernet Connector will exit the base of the Control Head next to the Sonar Cable.

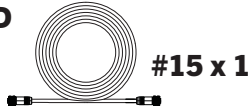
NOTICE: The Sonar Cable and Advanced GPS Ethernet Connector come from the factory secured to the Coil Cord with a pre-installed Cable Tie. Keep the pre-installed Cable Tie in place.

NOTICE: Ulterra trolling motors with Advanced GPS Navigation are also equipped with Sonar. Sonar is pre-installed from the factory and may be either Dual Spectrum CHIRP or Built-in MEGA Down Imaging. A Sonar Cable will be present below the Control Head and run through the center of the Coil Cord. Review the “Identifying Trolling Motor Features and Their Associated Cables” section of this document to identify and learn more about Sonar.



2

ITEM(S) NEEDED

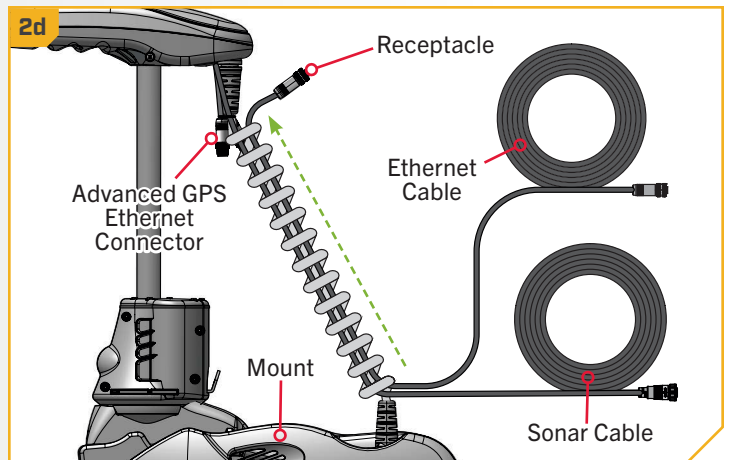
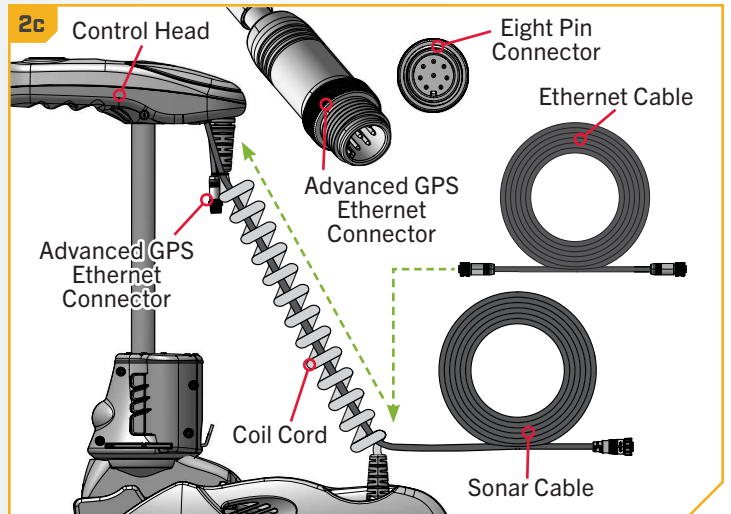


- c. Identify the keyed Receptacle on the Ethernet Cable (Item #15). It will be keyed to fit with the Eight Pin Advanced GPS Ethernet Connector below the Control Head.

NOTICE: The Ethernet Cable has a Receptacle for the Advanced GPS Ethernet Connector on both ends. Either end may be connected.

NOTICE: The 30' Ethernet Cable (AS EC 30E - 30' Ethernet Cable - 720073-4) is provided. Alternate cable lengths are available from humminbird.johnsonoutdoors.com.

- d. Take the Receptacle on the Ethernet Cable and run it through the center of the Coil Cord, starting at the end of the Coil Cord attached to the Mount and working up towards the Control Head. The Ethernet Cable should be parallel to the Sonar Cable. Allow enough slack in the cable to attach the Receptacle to the Advanced GPS Ethernet Connector.

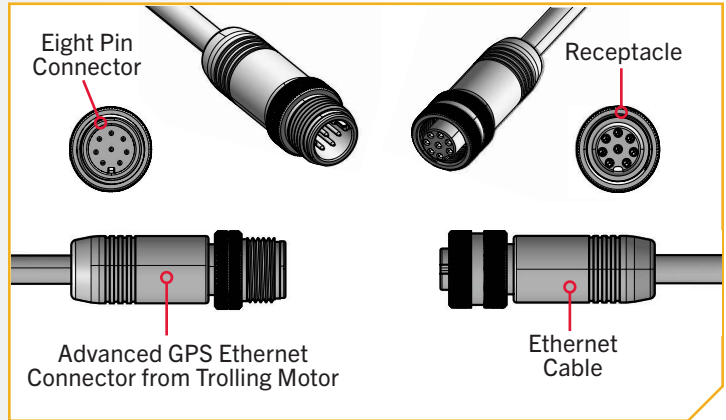


ADVANCED GPS NAVIGATION

3

- e. To install the Ethernet Cable, align the pins on the Advanced GPS Ethernet Connector with the Receptacle on the Ethernet Cable. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection.
- f. The Ethernet Cable will plug directly into a Solix or Helix Fish Finder or directly into a Helix Adapter Cable.
- g. If the trolling motor has more than one feature that requires connection to an output device, complete the connection for that specific output and then follow the instructions for "Securing Accessory Cables" to complete the Accessory Cable installation.

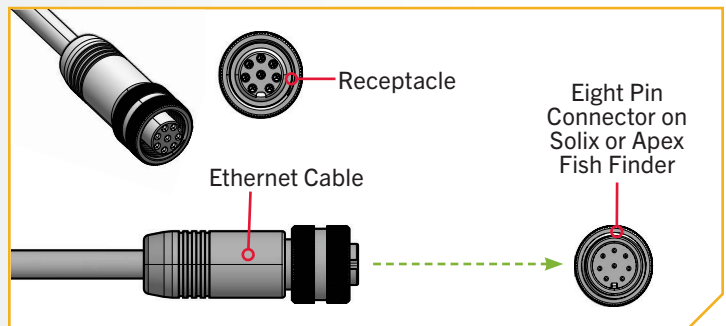
NOTICE: If unsure of what features the trolling motor may be installed with that require connection to an output device, please review the "Identifying Trolling Motor Features And Their Associated Cables" section of this manual.



NOTICE: A 30' Ethernet Extension Cable (AS ECX 30E - 30' Ethernet Extension Cable - 760025-1) is available from humminbird.johnsonoutdoors.com and should be used if the standard 30' Ethernet Cable provided with your trolling motor is not long enough to reach the fish finder.

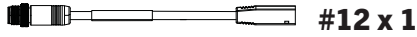
4

- h. If installing directly to a Solix or Apex, the connector will be flat on the back of the fish finder display.
- i. Align the Receptacle on the Ethernet Cable with the Eight Pin Connector on the Apex or Solix fish finder. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection. Once directly installed to the Solix or Apex, the connection is complete.



5

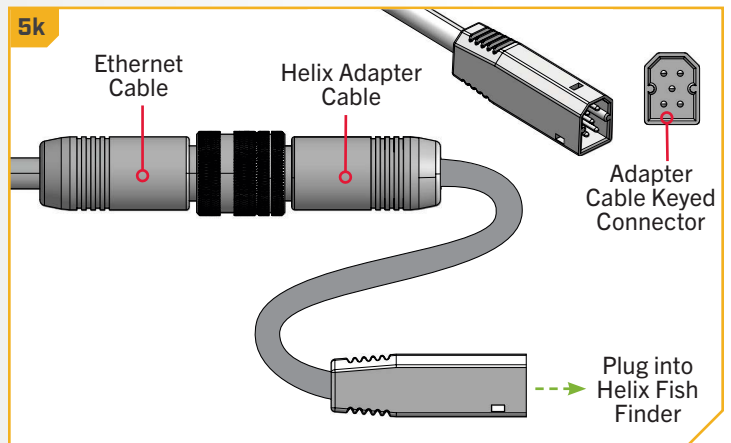
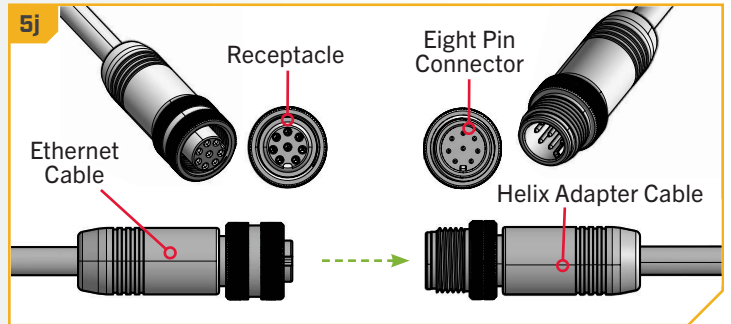
ITEM(S) NEEDED



- j. If installing directly to a Helix Adapter Cable (Item #12), align the Receptacle on the Ethernet Cable with the Eight Pin Connector on the Helix Adapter Cable provided. Notice the keyed connectors. Tighten the Collar from the Ethernet Cable to secure the connection.

NOTICE: Minn Kota provides one Helix Adapter Cable (AS EC QDE - Ethernet Adapter Cable - 720074-1) with every trolling motor equipped with Advanced GPS Navigation.

- k. The Helix Adapter Cable directly connects the Ethernet Cable to a Helix fish finder. Locate the Helix Adapter Cable Keyed Connector on the back of the fish finder. Plug the Helix Adapter Cable into the back of the Helix fish finder to complete the connection.

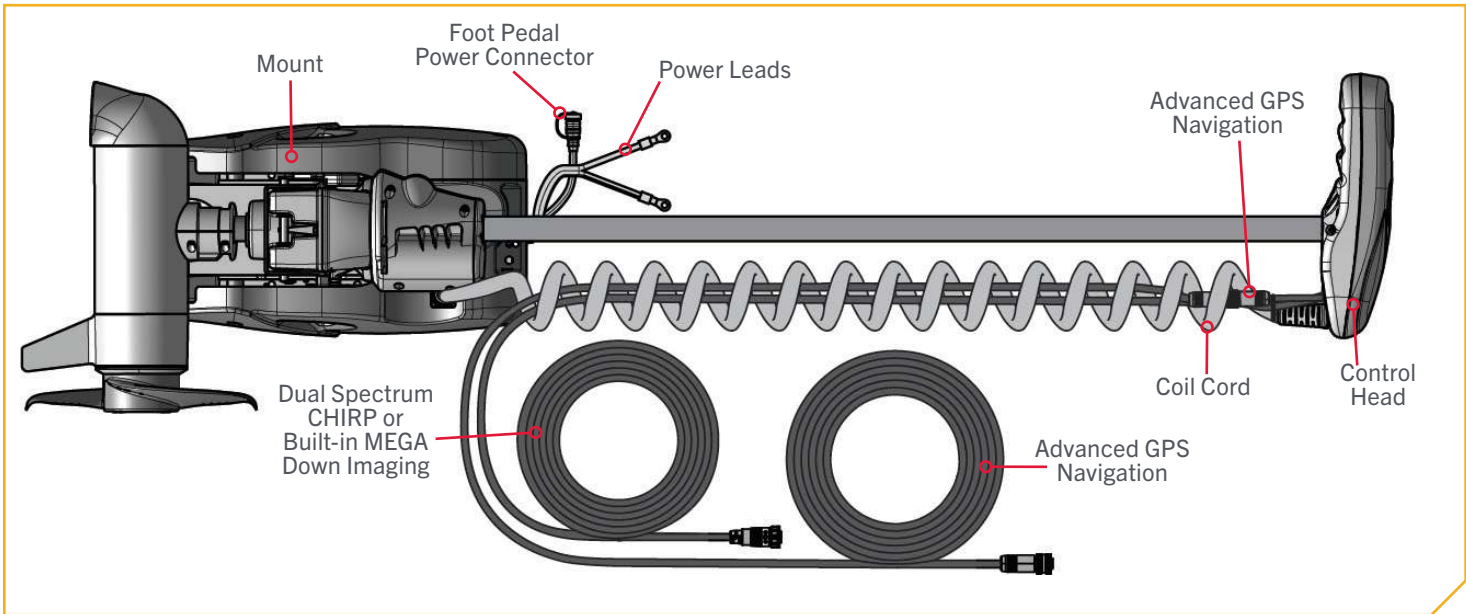


SECURING ACCESSORY CABLES

› Securing Accessory Cables

Before securing the cables, please review the "Identifying Trolling Motor Features and Their Associated Cables" section of this document. When identifying features, it is very important to secure the cables if **two** connections are present below the Control Head. If only one cable is present below the Control Head, securing the Accessory Cables is not necessary. All Accessory Cables that will be used on the trolling motor must be routed and all connections secured before completing the installation in this section. To review how feature cables should be routed and connected, please review the "Advanced GPS Navigation" and "Dual Spectrum CHIRP or "Built-in MEGA Down Imaging" sections of this document.

NOTICE: If only one cable is present below the Control Head, this installation is not applicable.



⚠ CAUTION

Failure to follow the recommended wire routing for installed features, if equipped, may cause damage to the product and void your 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 ties as it may damage the wires.

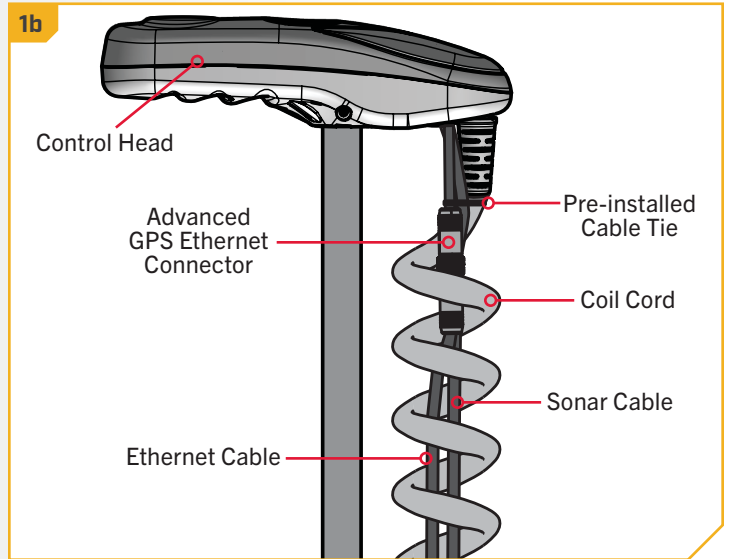
SECURING ACCESSORY CABLES

1

- a. Place the motor in the stowed position. Confirm all Accessory Cables are connected to an output device as desired.
- b. To secure the Accessory Cables, the Sonar Cable and Ethernet Cable will be tied together inside the Coil Cord using Cable Ties. Ensure the Accessory Cables are parallel to each other inside the Coil Cord. Run the Accessory Cables from the Control Head to the Mount, keeping them straight and parallel the entire length.

NOTICE: The Sonar Cable and Advanced GPS Ethernet Connector come from the factory secured to the Coil Cord with a pre-installed Cable Tie. Keep the pre-installed Cable Tie in place.

1b



2

ITEM(S) NEEDED

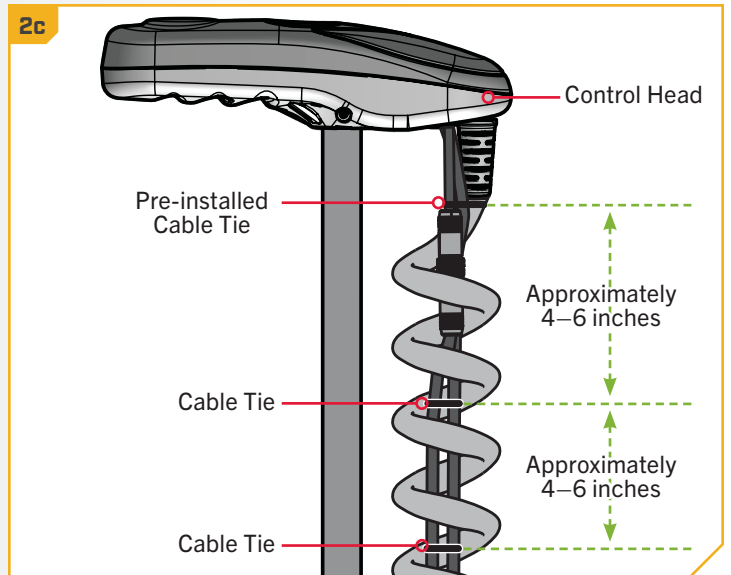
 #21 x 10

- c. Starting approximately 4–6 inches below the pre-installed Cable Tie, take a Cable Tie (Item #21) and place it around the Sonar Cable and Ethernet Cable. **Do NOT capture the Coil Cord with the Cable Tie.** The Sonar Cable and Ethernet Cable should be secured together with a Cable Tie, but float freely on the inside of the Coil Cord. Keep the pre-installed Cable Tie in place.

NOTICE: Do NOT secure the Accessory Cables to the Coil Cord. ONLY secure the Sonar and Ethernet Cables to each other using Cable Ties.

- d. Secure the Cable Tie around the Accessory Cables until it is fingertip tight. Do not over-tighten the Cable Tie as it may damage the Cables.

2c



 **CAUTION**

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

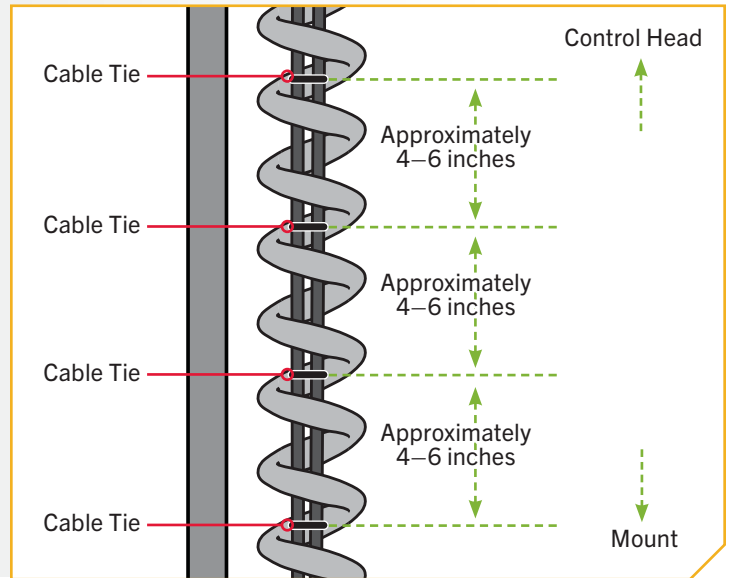
SECURING ACCESSORY CABLES

3

- e. Follow the Accessory Cables from the Control Head to the Mount and place additional Cable Ties every 4–6 inches. The number of Cable Ties needed will vary depending on the length of the trolling motor Shaft.

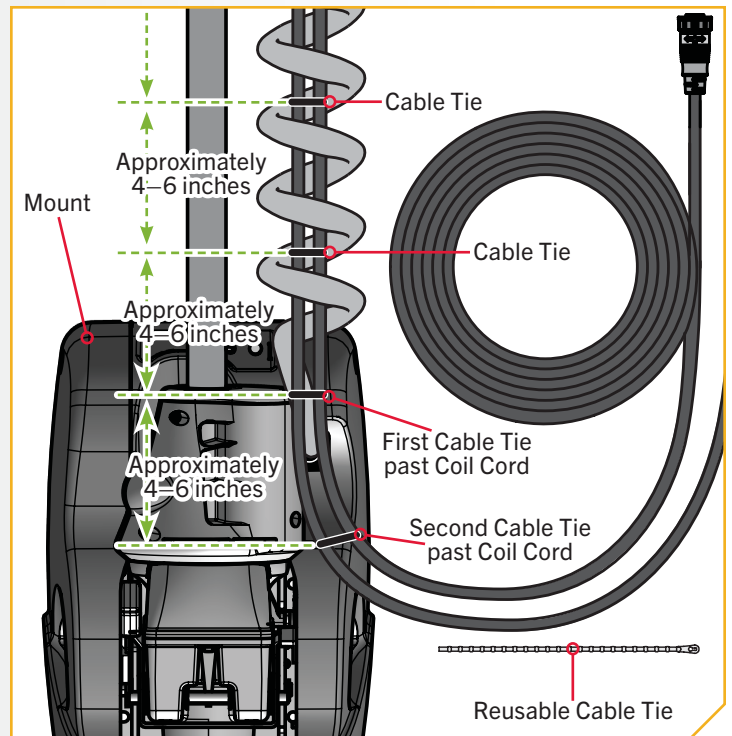
NOTICE: If additional Cable Ties are needed, a Cable Tie Bag Assembly (Part #2996300) is available from the Parts Ordering Portal at minnkota.johnsonoutdoors.com.

NOTICE: Secure the Cable Ties fingertip tight. It is recommended to have them **ONLY** tight enough so that they do not slide around on the Accessory Cables and hold the Cables together.



4

- f. Continue placing Cable Ties every 4–6 inches along the Accessory Cables until there are two Cable Ties in place past the end of the Coil Cord where it enters the Mount.
- g. Look at the placement of the Cable Ties and make sure that at least two Cable Ties are present on the Accessory Cables after they exit the Coil Cord. If no additional Cable Ties are needed, make sure to properly reconnect any Accessory Cables that may have been disconnected.
- h. Bundle any excess cable in a loose loop no less than 4" in diameter. The Reusable Cable Tie can be used to secure excess cable.



Installing the Prop

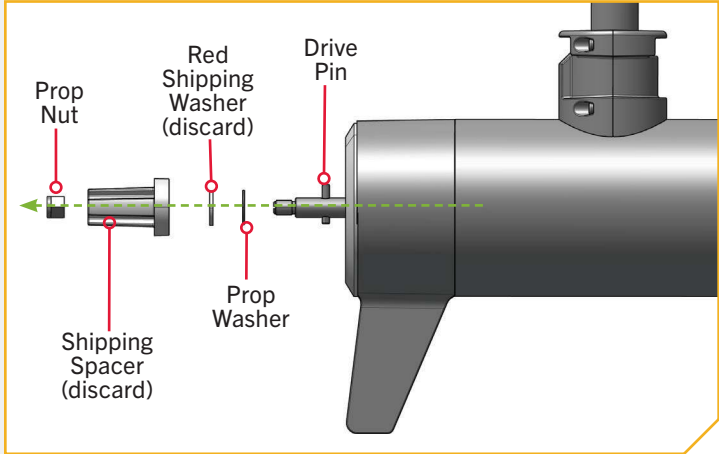
1

CAUTION

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

- a. While holding the Shipping Spacer with a pliers or vise grip, remove the Prop Nut, Red Shipping Washer, Prop Washer and Spacer, being careful not to lose the Drive Pin. Reuse the Prop Nut, Prop Washer and Drive Pin to attach the Prop.

NOTICE: The Shipping Spacer and Red Shipping Washer are for shipping purposes only and must be discarded. The Red Shipping Washer will rust if used to attach the Prop.

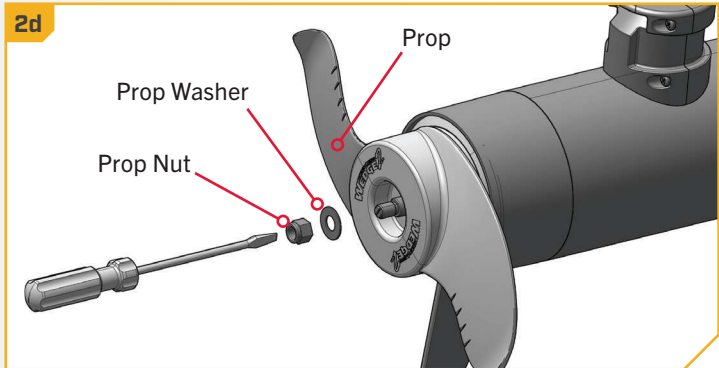
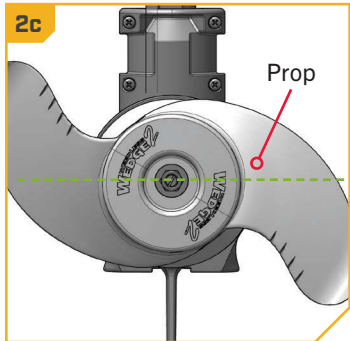
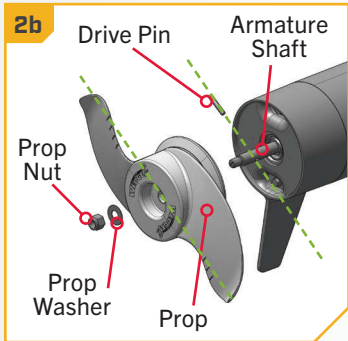


2

ITEM(S) NEEDED



- b. Take the Drive Pin (Item #17) 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.
- c. Align the Prop (Item #20) so it is also 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.
- d. Install the Prop Washer (Item #18) and the Prop Nut (Item #19) onto the end of the Armature Shaft.
- e. Holding the end of the Armature Shaft with a Flat-Blade Screwdriver, tighten the Prop Nut with a 9/16" Open End Wrench.
- f. Tighten the Prop Nut 1/4 turn past snug at 25-35 in-lbs.



CAUTION

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

ONE-BOAT NETWORK

ONE-BOAT NETWORK >

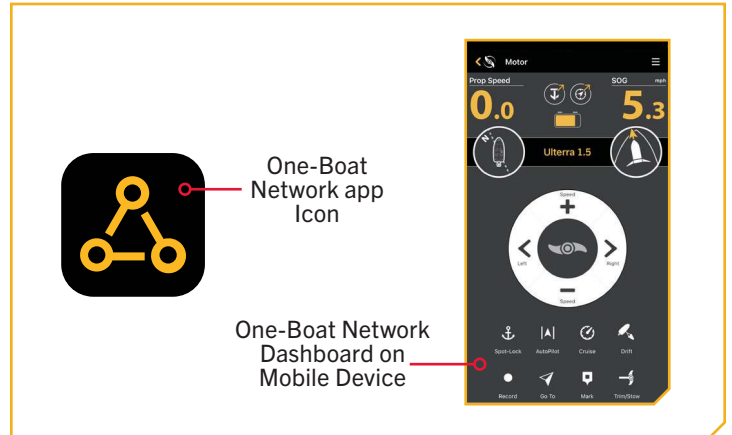
Minn Kota® and Humminbird® have joined forces to bring you the One-Boat Network, including the latest Advanced GPS Navigation Wireless Remote and the One-Boat Network app. The Wireless Remote comes from the factory paired to the trolling motor. To learn more about Wireless Remote features, refer to the Wireless Remote Owner's Manual online at minnkota.johnsonoutdoors.com.

To get the most from your One-Boat Network, we encourage you to download the One-Boat Network app onto your smart device. The One-Boat Network® app is a free iOS and Android application that you can download to a mobile device, providing unparalleled control over all of your One-Boat Network connected products. Minn Kota recommends connecting the trolling motor to the OBN app. For instructions on pairing the OBN app to the trolling motor, refer to the OBN Quick Start Guide included with the motor. For more information on the OBN app, refer to the One-Boat Network Owner's Manual online at minnkota.johnsonoutdoors.com.

WARNING

Take care that neither you nor other persons approach the turning Prop 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 One-Boat Network app is unavailable, disconnect the motor from power to cancel all active navigation and turn off the Prop.



QUICK STOW & DEPLOY

STOWING AND DEPLOYING THE ULTERRA





The Ulterra® gives you push-button command from anywhere on the boat. Stow, deploy or trim the motor up and down by using the buttons on your Advanced GPS Navigation Wireless Remote, Foot Pedal, One-Boat Network app, or a connected Humminbird® fish finder. It's instant. Effortless. And it makes Ulterra 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.

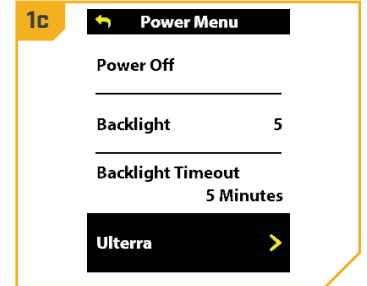
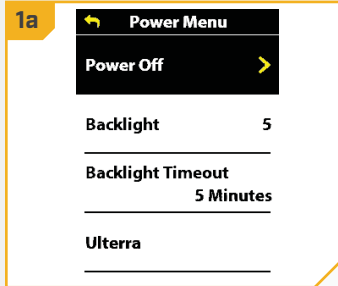
QUICK STOW & DEPLOY >

STOWING AND DEPLOYING WITH THE WIRELESS REMOTE

> Deploying with the Wireless Remote

- 1
 - a. Press the Power  button on the Wireless Remote.
 - b. Use the Speed Up  or Speed Down  button to find Ulterra.
 - c. Press the Steer Right  button to select Ulterra and open Deployment Mode.


NOTICE: Alternatively, press the One-Boat Network  side button to quickly access Deployment Mode. The function of the OBN  side button is set by default to open the Ulterra Deployment Mode menu.



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



STOWING AND DEPLOYING THE ULTERRA

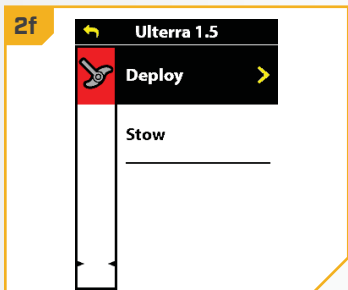
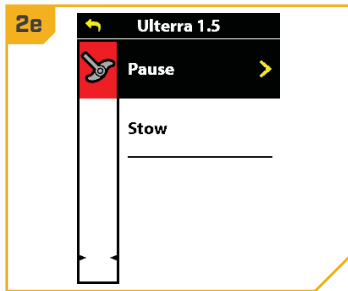
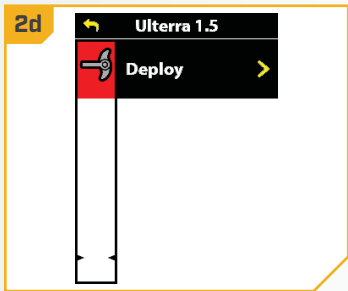
2

- d. Press the Steer Right  button to select Deploy. The motor will automatically deploy.

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.





- e. While the Motor is deploying, it is possible to pause the action. To pause the action, press the Steer Right  button to select Pause.
- f. To resume the Deploy action, press the Steer Right  button to select Deploy.
- g. If the Motor continues, it will complete the deploy process and normal motor operation will follow.





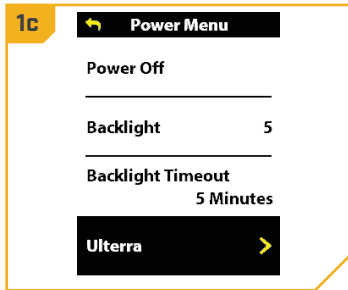
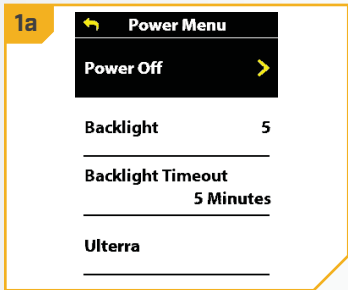
NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.

› Stowing with the Wireless Remote

1




- a. Press the Power  button on the Wireless Remote.
- b. Use the Speed Up  or Speed Down  button to find Ulterra.
- c. Press the Steer Right  button to select Ulterra and open Deployment Mode.

NOTICE: Alternatively, press the One-Boat Network  side button to quickly access Deployment Mode. The function of the OBN  side button is set by default to open the Ulterra Deployment Mode menu.






STOWING AND DEPLOYING THE ULTERRA

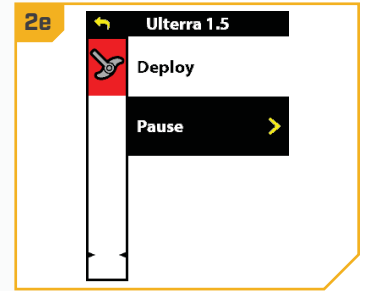
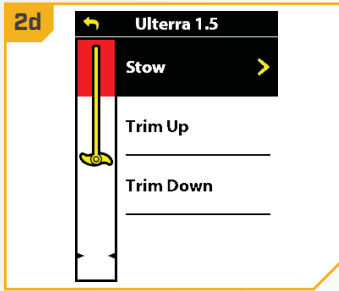
2

- d. Use the Speed Up  or Speed Down  button to find Stow. Use the Steer Right  button to select it. Once selected, the motor will automatically stow, and the Prop will be disabled.

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.

- e. While the Motor is stowing, it is possible to pause the action. To pause the action, press the Speed Down  button to find Pause and press the Steer Right  button to select it.
- f. To resume the Stow action, press the Steer Right  button to select Stow.
- g. If the Motor continues, it will complete the Stow process and normal motor operation will follow.



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

WARNING

The motor is not safely stowed for transport until the red Status  LED on the Indicator Panel is illuminated.

STOWING AND DEPLOYING THE ULTRERRA

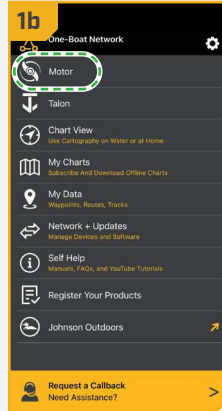
STOWING AND DEPLOYING WITH THE ONE-BOAT NETWORK (OBN) APP

Deploying with the OBN App

1

- Open the One-Boat Network (OBN) app on the mobile device. Make sure the mobile device is paired with the trolling motor.
- From the OBN home screen, tap the Motor menu. The Motor menu opens the Motor home screen.
- 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 is displayed, the Motor home screen appears after.



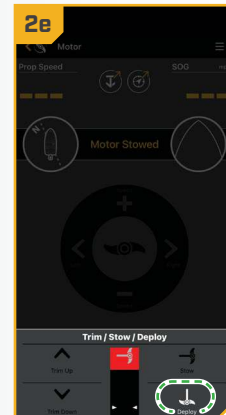
2

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

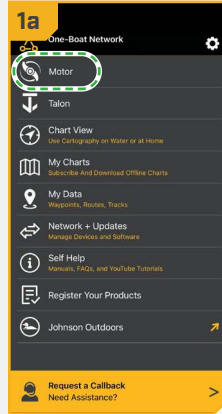


NOTICE: To avoid churning or agitation of surface water, ensure that the top of the motor is submerged at least 12" below the surface of the water.

Stowing with the OBN App

1

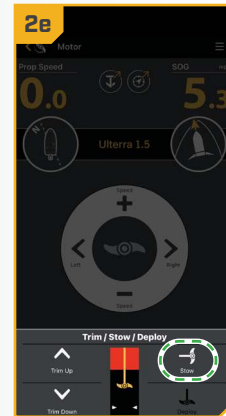
- Open the One-Boat Network (OBN) app on the mobile device. Make sure the mobile device is paired with the trolling motor.
- From the OBN home screen, tap the Motor menu. The Motor menu opens the Motor home screen.
- Before the Motor home screen will open, tap Agree on the on-screen prompt.



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

- Tap Trim/Stow on the bottom of the screen to open the Trim/Stow/Deploy menu.
- 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 motor is not safely stowed for transport until the red Status  LED on the Indicator Panel is illuminated.

STOWING AND DEPLOYING THE ULTERRA

› Stowing and Deploying with the Foot Pedal

1

- a. On the Foot Pedal, press the MODE button to put the Foot Pedal into Ultrerra Mode. The amber MODE LED on the Indicator Panel will illuminate when in Ultrerra Mode.

NOTICE: The Foot Pedal can only stow and deploy the motor while in Ultrerra Mode.

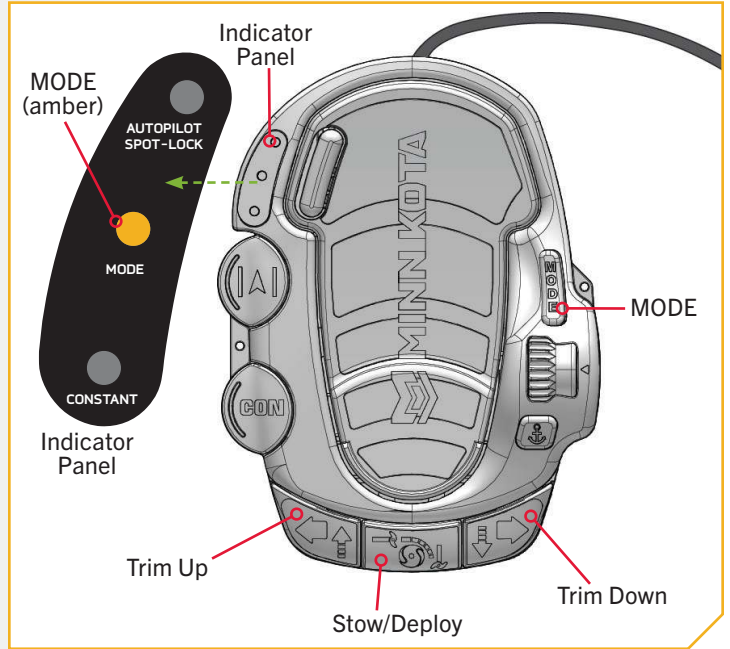
- b. To deploy the motor when it is stowed, double-press the Stow/Deploy button. To stow the motor when it is deployed, single-press the Stow/Deploy button.

⚠ 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: The **deploy** sequence can be stopped anytime by pressing the Stow/Deploy button. The **stow** sequence can be stopped at any time by pressing either the Trim Up or Trim Down button or the Stow/Deploy button.

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.



⚠ WARNING

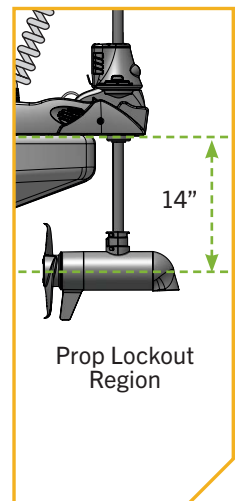
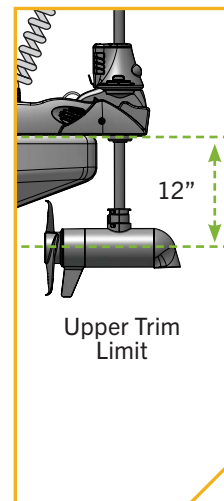
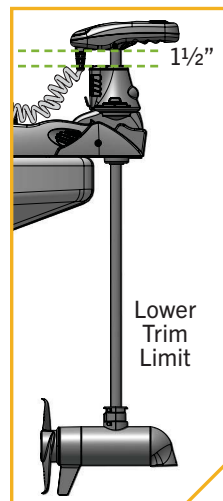
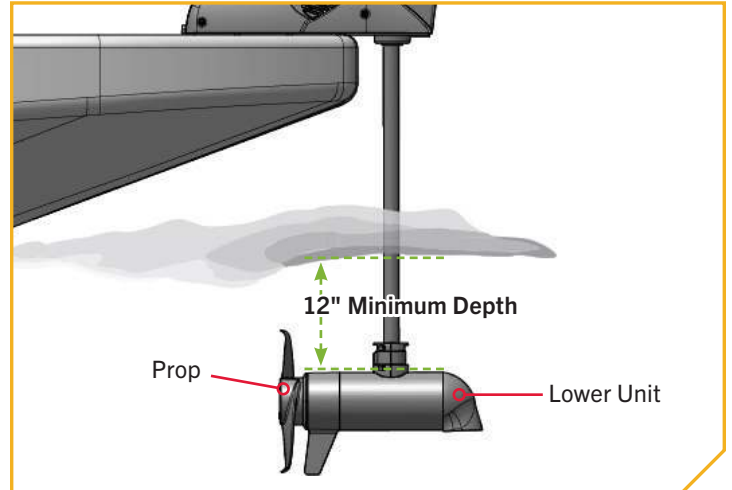
The motor is not safely stowed for transport until the red Status LED on the Indicator Panel is illuminated.

ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA





ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA



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.

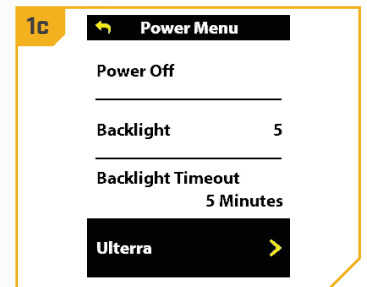
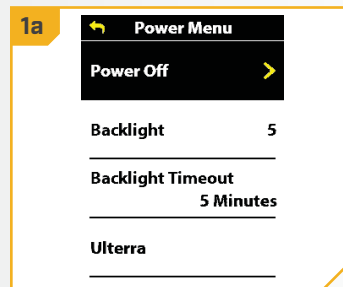
The Prop will temporarily stop while trimming the motor and resume once trimming is stopped. The motor is programmed to operate safely and limit Prop rotation when the Lower Unit is trimmed within certain limits. Trim limits are in place to avoid damage to the unit. A Lower Trim Limit is set approximately 1½" from the bottom of the Control Head to the top of the Trim Housing. An Upper Trim Limit is set 12" from the bottom of the Mount to the center of the Lower Unit. A Prop Lockout Region, defined as 14" 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.



▶ Trimming with the Wireless Remote




- 1 a. Press the Power  button on the Wireless Remote.
- b. Use the Speed Up  or Speed Down  button to find Ultrerra.
- c. Press the Steer Right  button to select Ultrerra and open Deployment Mode.

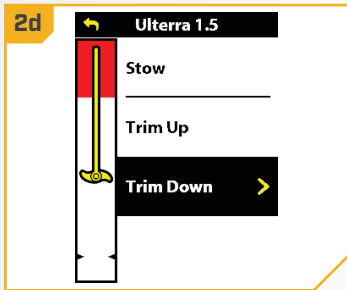
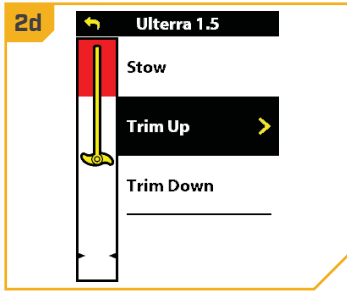
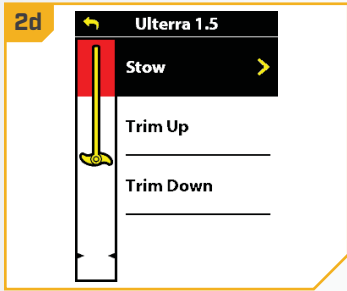
NOTICE: Alternatively, press the One-Boat Network  side button to quickly access Deployment Mode. The function of the OBN  side button is set by default to open the Ultrerra Deployment Mode menu.



ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA

2

- d. Once in Ulterra Menu, use the Speed Up  or Speed Down  button to select Trim Up or Trim Down. Trimming up will raise the motor and trimming down will lower the motor.
- e. Press and hold the Steer Right  button to select it.
- f. When the motor has reached its highest trim limit, the Prop will be locked out and the Trim Up option will be disabled. The Prop will stay locked out even when the Deployment Menu has closed. Trim the motor down and out of the Prop Lockout region to restore functionality.
- g. When the lower trim limit is reached, the Trim Down option will be disabled.



WARNING

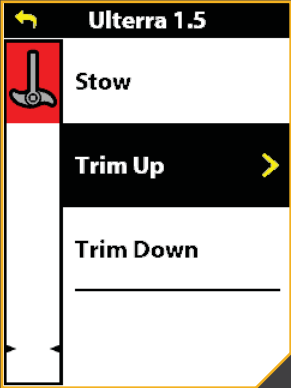
While Trim Up or Trim Down is pressed, the motor will automatically trim. Be sure the motor is clear from obstructions and has a clear path of travel. The Prop is disabled while the motor is being trimmed to prevent accidental contact with the rotating Prop.

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.

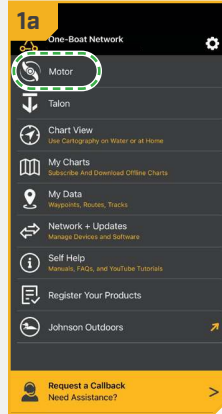


ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA

▶ Trimming with the OBN App



1

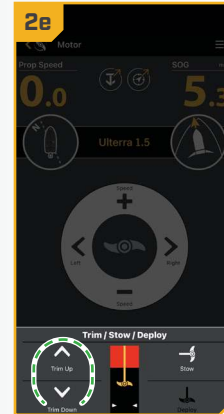
- Open the One-Boat Network (OBN) app on the mobile device. Make sure the mobile device is paired with the trolling motor.
- From the OBN home screen, tap the Motor menu. The Motor menu opens the Motor home screen.
- Before the Motor home screen will open, tap Agree on the on-screen prompt.



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

- Tap Trim/Stow on the bottom of the screen to open the Trim/Stow/Deploy menu.
- To trim the motor up, press and hold Trim Up . Continue to hold until the lower unit is at the desired height.
- To trim the motor down, press and hold Trim Down . Continue to hold until the lower unit is 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.



ADJUSTING THE DEPTH (TRIM) OF THE ULTERRA

› Trimming with the Foot Pedal

1

- a. On the Foot Pedal, press the MODE button so that the amber MODE MODE LED on the Indicator Panel is illuminated, putting the Foot Pedal in Ultrerra Mode.

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

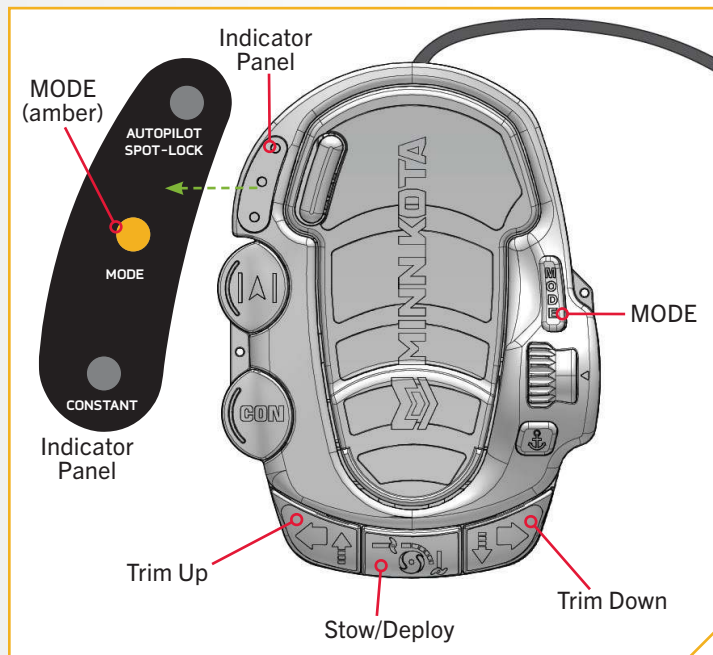
WARNING

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 is being trimmed to prevent accidental contact with the rotating Prop.

- b. To trim the motor up, press the Trim Up button located on the bottom left of the Foot Pedal.
- c. To trim the motor down, press the Trim Down button located on the bottom right 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.

This completes the installation of your Ultrerra. A complete Owner's Manual can be downloaded at minnkota.johnsonoutdoors.com.

NOTES



A large area for taking notes, consisting of 25 horizontal lines spaced evenly down the page.



RECOMMENDED ACCESSORIES

ON-BOARD & PORTABLE BATTERY CHARGERS

Stop buying new batteries and start taking care of the ones you've got. Many chargers can actually damage your battery over time – creating shorter run times and shorter overall life. Digitally controlled Minn Kota chargers are designed to provide the fastest charge that protect and extend battery life.



MK212PCL



MK210D



MK110PD

TALON SHALLOW WATER ANCHOR

Talon is the only shallow water anchor with up to 15' of anchoring depth, multiple anchoring modes, and control from the bow, transom, console, remote or mobile device.



BUILT-IN WORK LIGHT

Lets you tie lines and work from the transom any time of day — or night. Includes both white and blue LED lights with three brightness settings.



UP TO 15' DEEP

Control more water and catch more fish with the first 15' shallow water anchor.



BLUETOOTH® CONNECTIVITY

Lets you control Talon from your mobile device and easily update it. Also opens up communication to other control options.



MORE CONTROL OPTIONS

- Control Panel
- Wireless Remote
- Mobile App
- Wireless Foot Switch
- Humminbird® Connectivity
- Advanced GPS Navigation System Remote



MINN KOTA ACCESSORIES

We offer a wide variety of trolling motor accessories, including:

- 60-Amp Circuit Breaker
- Mounting Brackets
- Stabilizer Kits
- Extension Handles
- Battery Connectors
- Battery Boxes
- Quick Connect Plugs



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Part #2207122

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12/23