



RIPTIDE POWERDRIVE

BOW-MOUNT TROLLING MOTOR

Owner's Manual

INTRODUCTION

THANK YOU

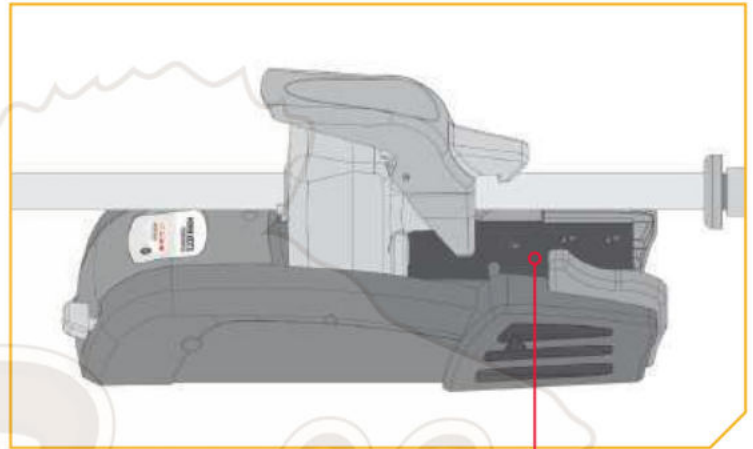
Thank you for choosing Minn Kota. We believe that you should spend more time fishing and less time positioning your boat. That's why we build the smartest, toughest, most intuitive trolling motors on the water. Every aspect of a Minn Kota trolling motor is thought out and rethought until it's good enough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

REGISTRATION

Remember to keep your receipt and immediately register your trolling motor. A registration card is included with your motor or you can complete registration on our website at minnkotamotors.com.

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. We recommend that you write the serial number down so that you have it available for future reference.



NOTICE: The serial number on your Riptide PowerDrive is located inside the mount below the motor rests.

MOTOR INFORMATION (For Consumer Reference Only)

Model Serial Number: _____

Controller 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, at minnkotamotors.com. Please include proof of purchase, serial number and purchase date for warranty service with any of the above options.

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SAFETY CONSIDERATIONS

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

WARNING

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

WARNING

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

WARNING

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

WARNING

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

WARNING

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

WARRANTY

WARRANTY ON MINN KOTA SALTWATER TROLLING MOTORS

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

Minn Kota Limited Two-Year Warranty on the Entire Product

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

Minn Kota Limited Lifetime Warranty on Composite Shaft

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

Exclusions & Limitations

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

Minn Kota Service Information

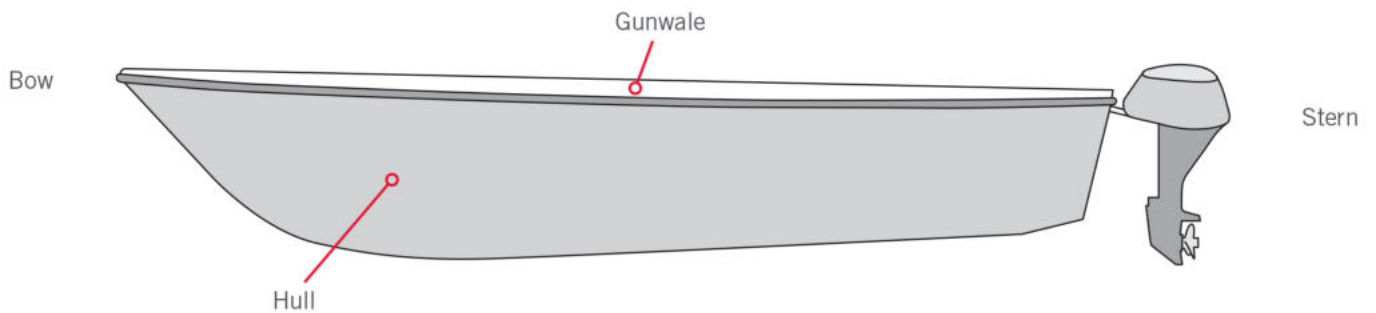
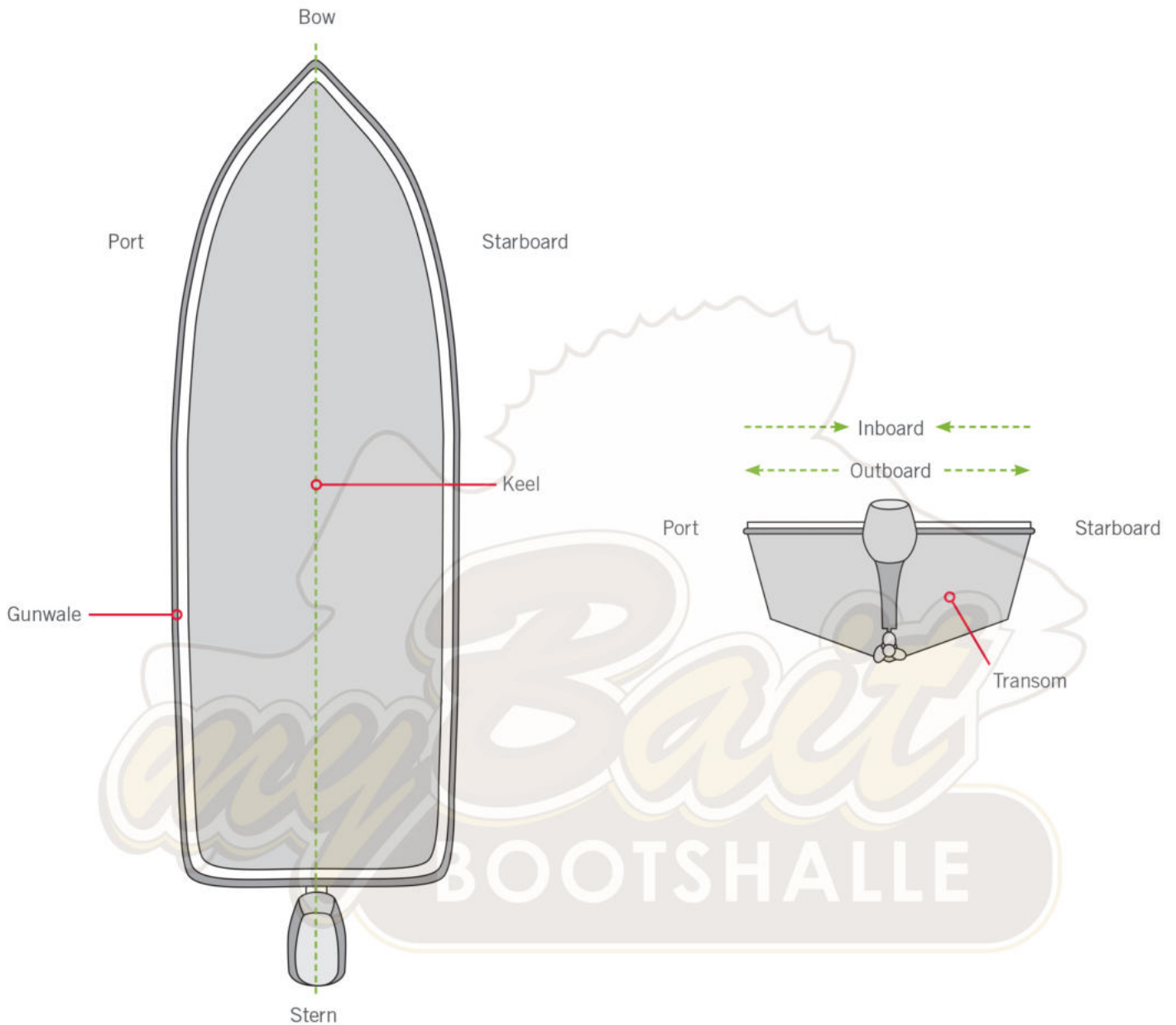
To obtain warranty service in the U.S., the product believed to be defective, and proof of original purchase (including the date of purchase), must be presented to a Minn Kota Authorized Service Center or to Minn Kota's factory service center in Mankato, MN. Any charges incurred for service calls, transportation or shipping/freight to/from the Minn Kota Authorized Service Center or factory, labor to haul out, remove, re-install or re-rig products removed for warranty service, or any other similar items are the sole and exclusive responsibility of the purchaser. Products purchased outside of the U.S. must be returned prepaid with proof of purchase (including the date of purchase and serial number) to any Authorized Minn Kota Service Center in the country of purchase. Warranty service can be arranged by contacting a Minn Kota Authorized Service Center or by contacting the factory at 1-800-227-6433 or email service@minnkotamotors.com. **Products repaired or replaced will be warranted for the remainder of the original warranty period [or for 90 days from the date of repair or replacement, whichever is longer]. For any product that is returned for warranty service that JOME finds to be not covered by or not in breach of this limited warranty, there will be a billing for services rendered at the prevailing posted labor rate and for a minimum of at least one hour.**

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

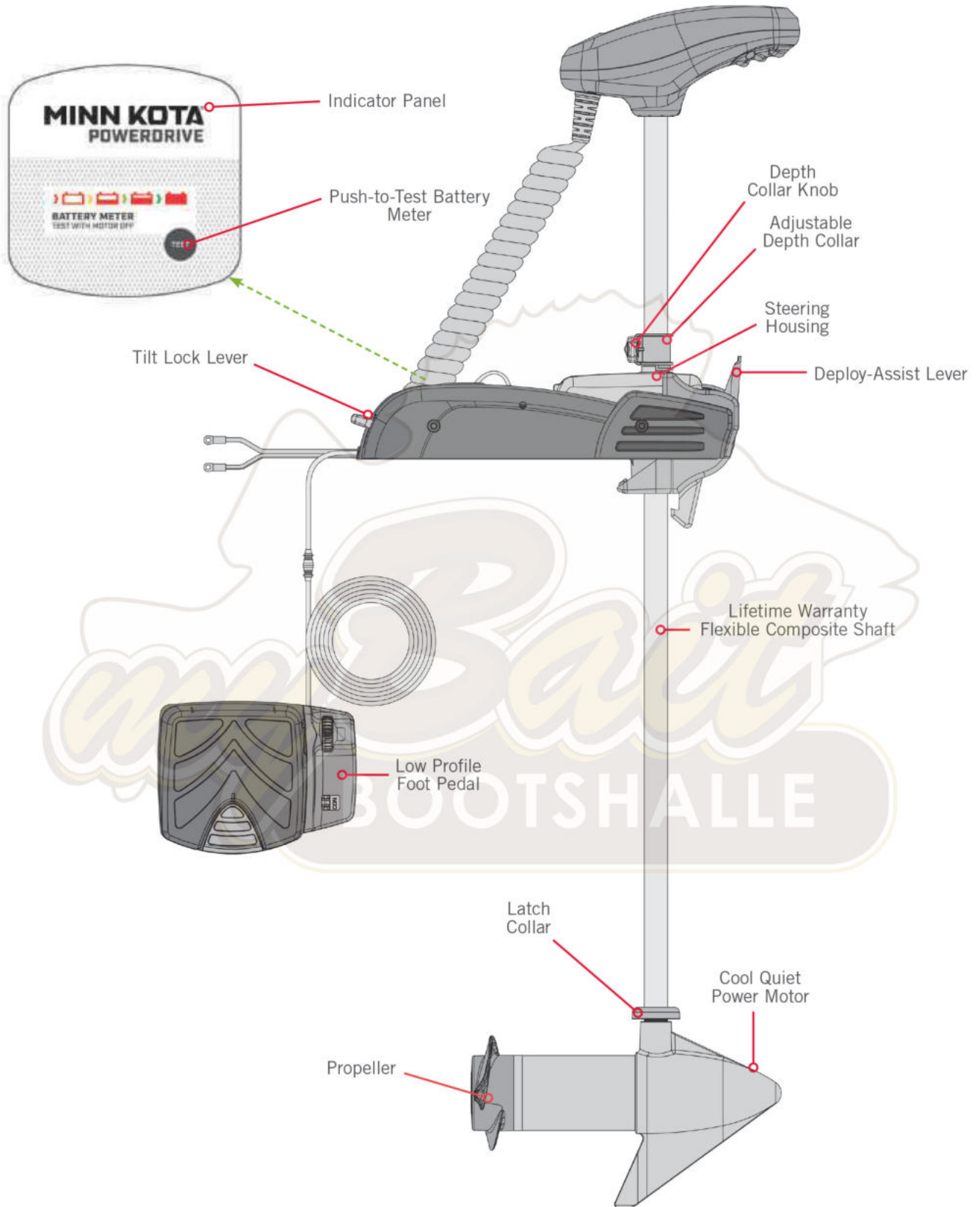
NOTICE: THERE ARE NO EXPRESS WARRANTIES OTHER THAN THESE LIMITED WARRANTIES. IN NO EVENT SHALL ANY IMPLIED WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, EXTEND BEYOND THE DURATION OF THE RELEVANT EXPRESS LIMITED WARRANTY. IN NO EVENT SHALL JOME BE LIABLE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

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

KNOW YOUR BOAT



FEATURES



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

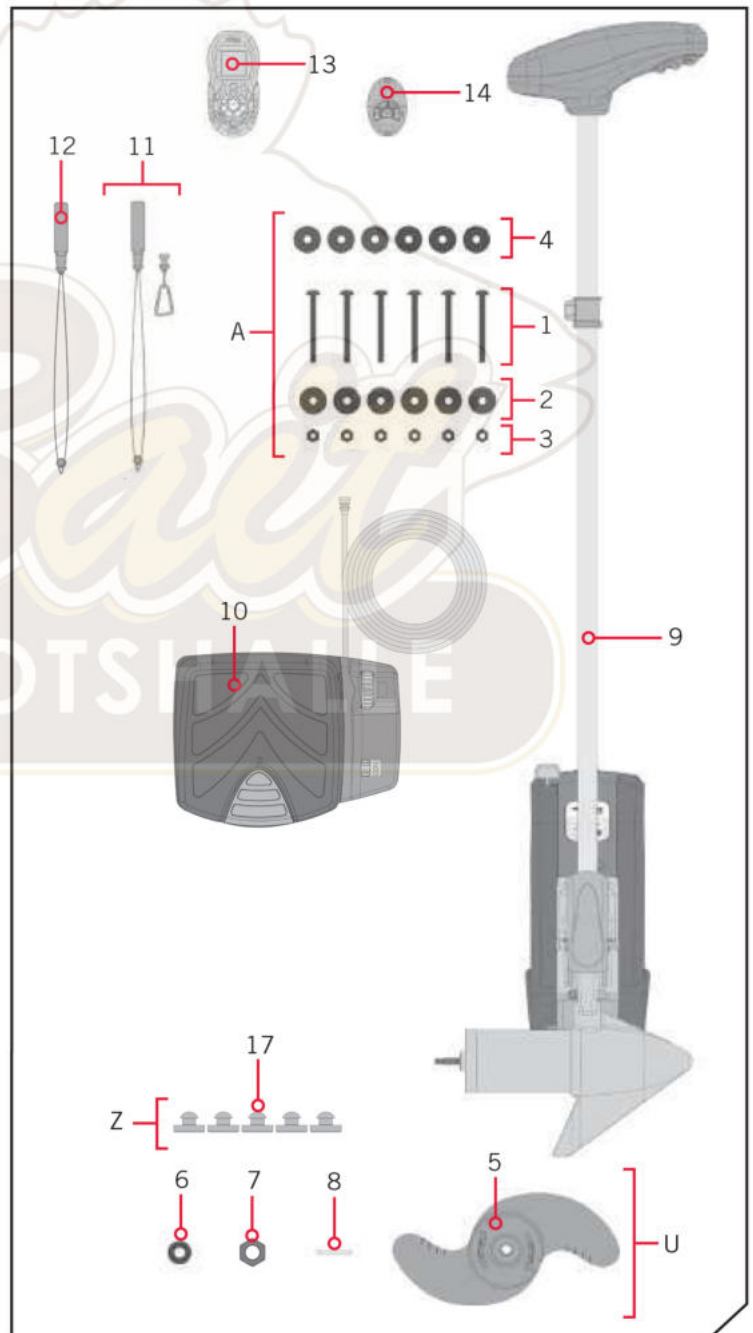
INSTALLATION

INSTALLING THE RIPTIDE POWERDRIVE

Your new Riptide PowerDrive comes with everything you'll need to directly install it to the boat. This motor can be directly mounted to the boat or 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 compatible quick release mounting brackets and to locate your nearest dealer, visit minnkotamotors.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, please visit minnkotamotors.com.

INSTALLATION PARTS LIST

Item / Assembly	Part #	Description	Qty.
A	2994864	BAG ASSEMBLY - (BOLT, NUT, WASHERS)	1
1	2263462	BOLT-MOUNTING-1/4X2 W/STG	6
2	2261713	WASHER-1/4	6
3	2263103	NUT NYLOK 1/4-20 MTG	6
4	2301720	WASHER-MOUNTING RUBBER	6
U	1378131	PROP IND 2091160 (WDLS WDGII)	1
5	2091160	PROP-WW2 (3 5/8") REAMED	1
6	2151726	WASHER-5/16 SS	1
7	2053101	NUT-PROP,NYLOC (MED) 5/16 SS	1
8	2092600	PIN-DRIVE 1.06" LG SS	1
9	✱	MOTOR ASSEMBLY	1
10	2994728	FOOT PEDAL ASSEMBLY, PD	1
11	2390800 ◆	LANYARD, REMOTE W/ CARABINER	1
12	2390801 ●	LANYARD, REMOTE *COPILOT*	1
13	2994075 ◆	REMOTE ASY, IPILOT	1
14	2994020 ●	TRANSMTR, ASY, PD/AP COPLT	1
▲	2397106	MANUAL, QUICK REF., iPILOT 1.6	1
▲	2317123	MANUAL-INSTALL GUIDE, POWERDRIVE	1
Z	2994859	BAG ASY-TERROVA/V2,RUB.BUMPERS	1
17	2325110	PAD, FOOT PEDAL PD	5



▲ Not shown on Parts Diagram.

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

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

INSTALLING THE RIPTIDE POWERDRIVE

MOUNTING CONSIDERATIONS

It is recommended that the motor be mounted as close to the 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 minnkotamotors.com.



View accessories available for your trolling motor at minnkotamotors.com.

TOOLS AND RESOURCES REQUIRED

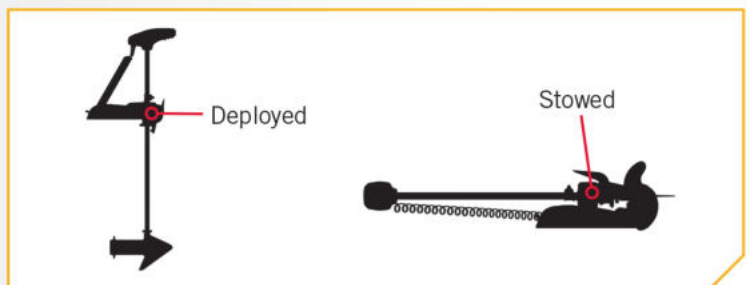
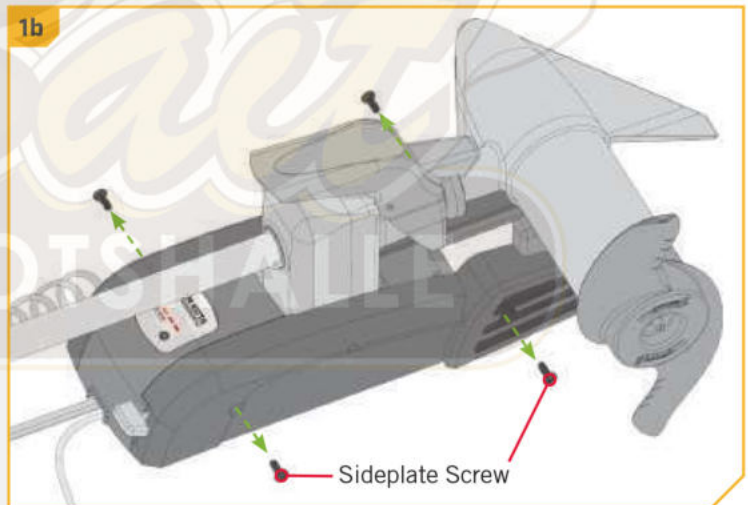
- #3 and #2 Phillips Screw Driver
- Drill
- 9/32" Drill Bit
- 7/16" Box End Wrench
- A second person to help with the installation

INSTALLATION

INSTALLING THE RIPTIDE POWERDRIVE

- Place the mount 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.
 - Remove the four sideplate screws using a #3 or #2 Phillips screwdriver. Two of these screws will be located on each side of the mount.

NOTICE: This motor weighs approximately 30 lbs. We recommend having a second person help with the installation.

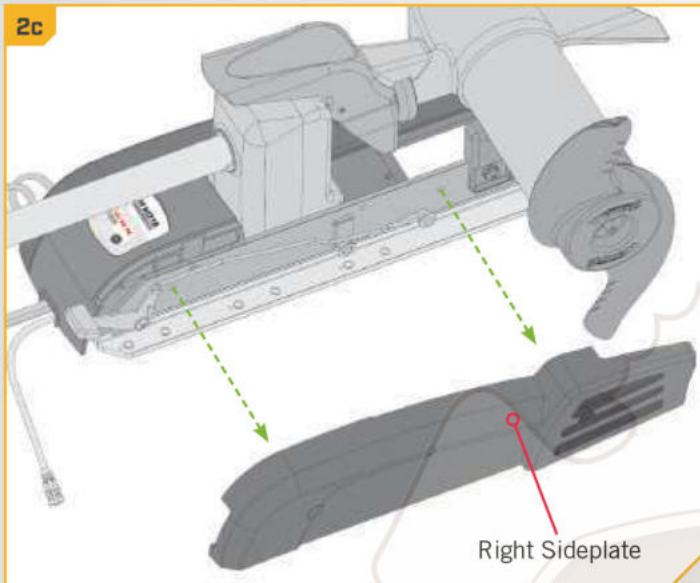


INSTALLING THE RIPTIDE POWERDRIVE

2

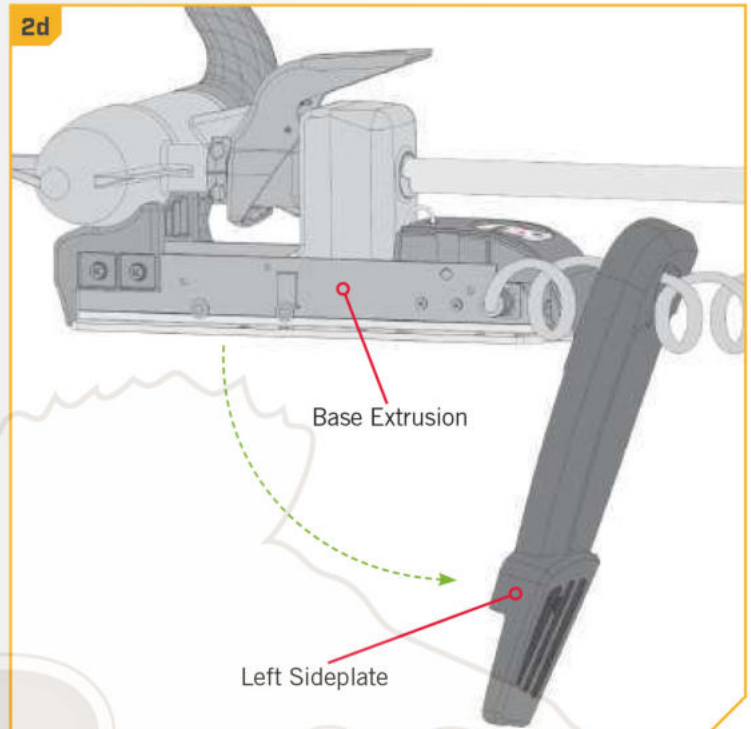
- c. Remove the Right Sideplate.
- d. Swing the Left Sideplate out and away from the Base Extrusion.

2c



Right Sideplate

2d



Base Extrusion

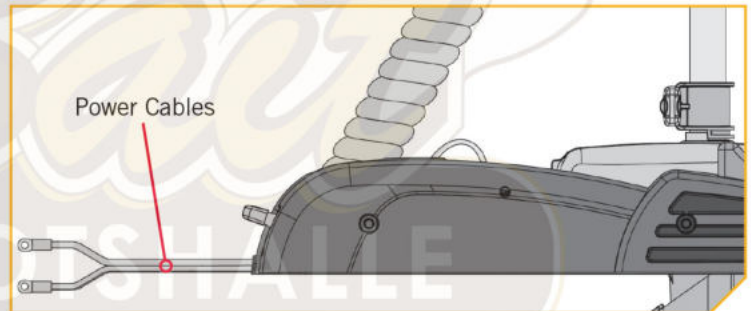
Left Sideplate

3

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

WARNING

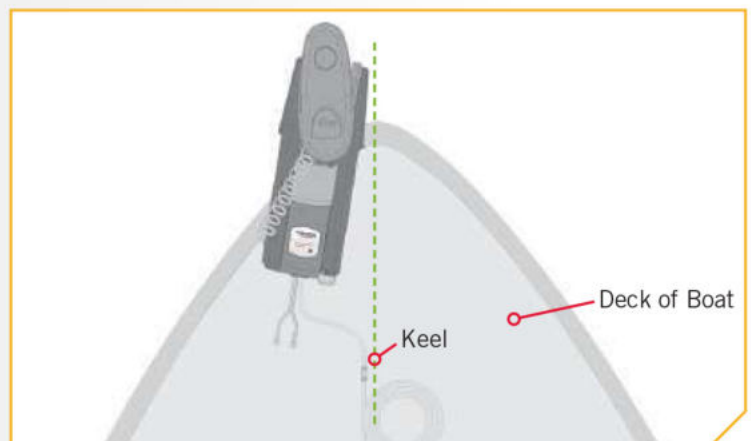
Make sure the motor is mounted on a level surface and is not connected to a power source.



Power Cables

4

- f. Place the mount as close to the centerline or keel of the boat as possible. The motor can be installed on either the Port or Starboard side of the boat based on personal preference. Check placement with the motor in the stowed and deployed positions. Review the mounting considerations at the beginning of the installation.



Keel

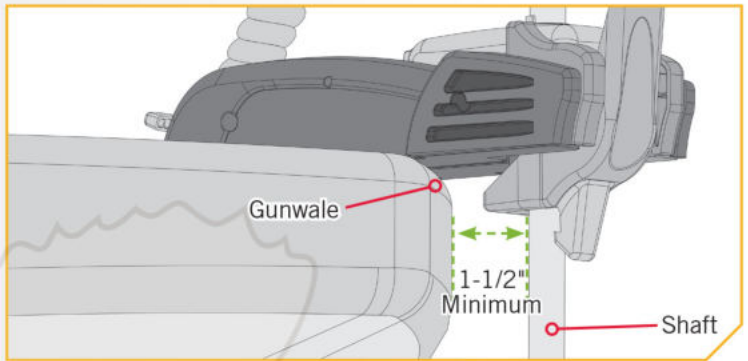
Deck of Boat

5

ITEM(S) NEEDED

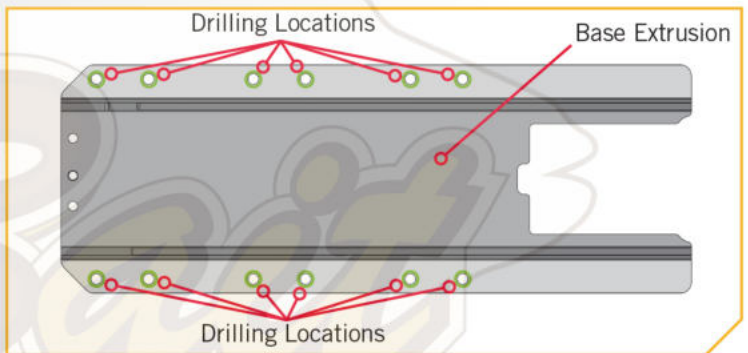
⊖ #4 x 6

- g. When the motor is in the deployed position, make sure that the Shaft is 1-1/2" out past the Gunwale of the boat. The lower unit, when stowed and deployed must not encounter any obstructions.
- h. Check to be sure that the mount is level. Use the Rubber Washers provided to create a level surface if necessary.



6

- i. It is recommended to mark at least 6 of the 12 holes in the Base Extrusion and to have a minimum of two bolts on each side that are located the farthest apart. Ideal installation would allow for 6 bolts to be used, with a minimum of 4.
- j. Drill through the deck of the boat using a 9/32" Drill Bit on the marked locations.



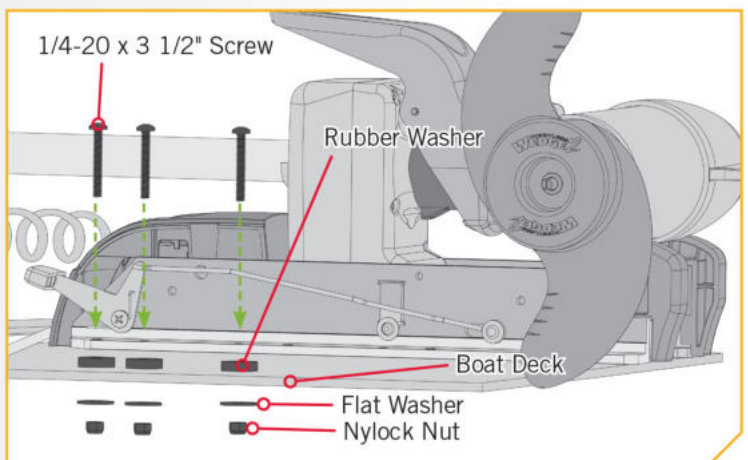
7

ITEM(S) NEEDED

⊖ #4 x 6

#1 x 6

- k. Put a 1/4-20 x 3-1/2" (Item #1) screw in each of the drilled locations. The screw should pass through the Base Extrusion and the boat deck. If the rubber washers (Item #4) are used, they should sit between the Base Extrusion and boat deck. Make sure to secure the motor with screws on each side of the Base Extrusion.



INSTALLING THE RIPTIDE POWERDRIVE

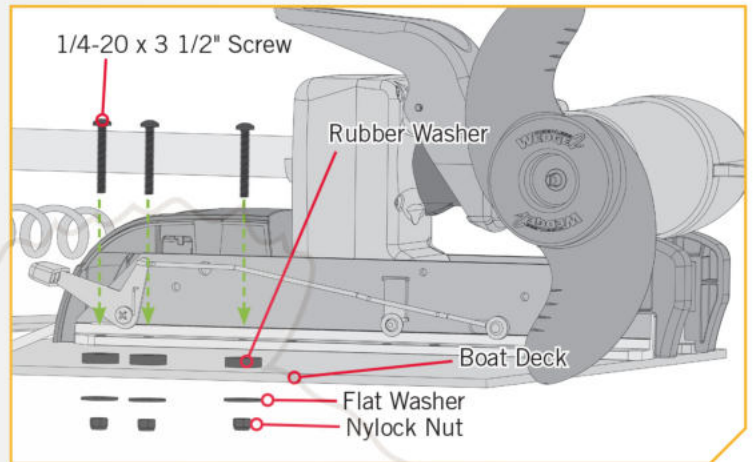
8

ITEM(S) NEEDED

- #2 x 6
- #3 x 6

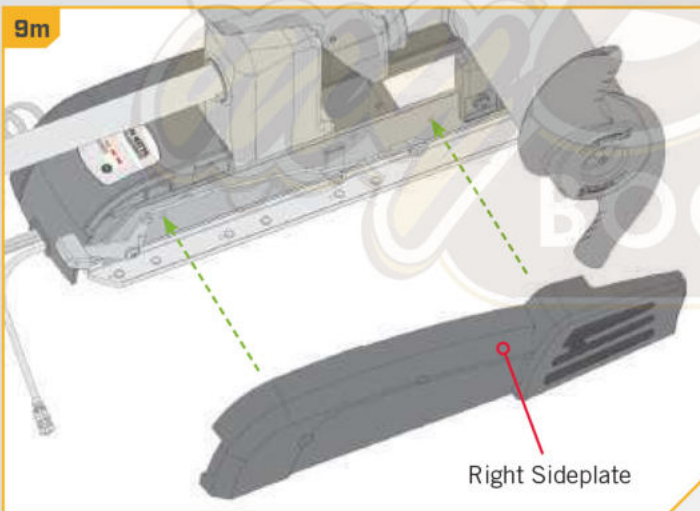
- Place a Flat Washer (Item #2) and then a Nylock Nut (Item #3) at the end of each screw as shown and secure. Make sure all hardware is secure.

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.



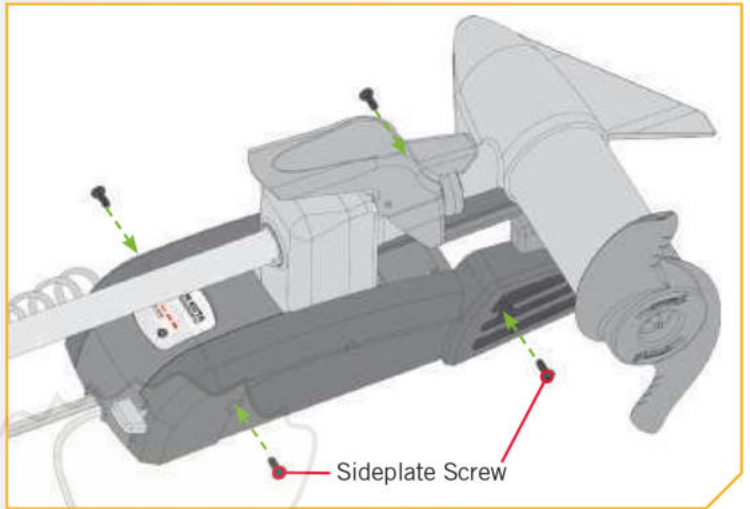
9

- Replace the Right Sideplate.
- Swing the Left Sideplate back into its correct position on the Base Extrusion.



10

- o. Replace the four sideplate screws using a #3 or #2 Phillips screwdriver. Two of these screws will be located on each side of the mount.



11

ITEM(S) NEEDED

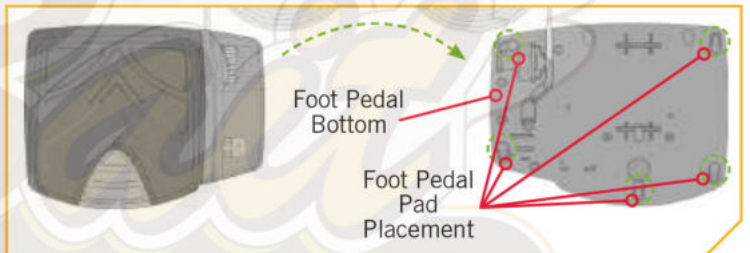
#17 x 5



#10 x 1

- p. Take the Foot Pedal (Item #10) and turn it over. Put a Foot Pedal Pad (Item #17) in each of the pad locations.

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



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 5% voltage drop allowed at full motor power based on published product power requirements.

Motor Thrust / Model	Max Amp Draw	Circuit Breaker	Wire Extension Length				
			5 feet	10 feet	15 feet	20 feet	25 feet
30 lb.	30	50 Amp @ 12 VDC	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG
40 lb., 45 lb.	42		10 AWG	8 AWG	6 AWG	4 AWG	4 AWG
50 lb., 55 lb.	50	60 Amp @ 12 VDC	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG
70 lb.	42	50 Amp @ 24 VDC	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG
80 lb.	56	60 Amp @ 24 VDC	8 AWG	8 AWG	8 AWG	6 AWG	6 AWG
101 lb.	46	50 Amp @ 36 VDC	8 AWG	8 AWG	8 AWG	8 AWG	8 AWG
Engine Mount 101	50	60 Amp @ 36 VDC	8 AWG	8 AWG	8 AWG	8 AWG	8 AWG
112 lb.	52	60 Amp @ 36 VDC	8 AWG	8 AWG	8 AWG	8 AWG	8 AWG
Engine Mount 160	116	(2) x 60 Amp @ 24 VDC	6 AWG	6 AWG	4 AWG	2 AWG	2 AWG
E-Drive	40	50 Amp @ 48 VDC	10 AWG	10 AWG	10 AWG	10 AWG	10 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

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 minnkotamotors.com. Minn Kota trolling motors can run on Lithium Ion batteries. However, they are specifically designed to run on traditional lead acid batteries (flooded, AMG 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 DC or Alternator Chargers**

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

Minn Kota recommends using Minn Kota brand chargers to recharge the batteries connected to your Minn Kota trolling motor, as they have been engineered to work with motors that include a bonding wire.

› **Additional Accessories Connected to Trolling Motor Batteries**

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

CONNECTING THE BATTERIES

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 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

› 12 Volt Systems

1. Make sure that the motor is switched off (speed selector on "OFF" or "0").
2. Connect positive (+) red lead to positive (+) battery terminal.
3. Connect negative (-) black lead to negative (-) battery terminal.

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

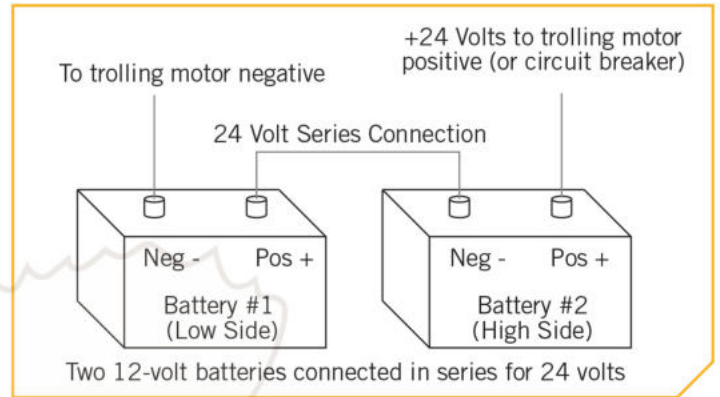
- For safety reasons, disconnect the motor from the battery or batteries when the motor is not in use or while the battery/batteries are being charged.
- Improper wiring of 24/36 volt systems could cause battery explosion.
- Keep leadwire wing nut connections tight and solid to battery terminals.
- Locate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

CONNECTING THE BATTERIES IN SERIES (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 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.

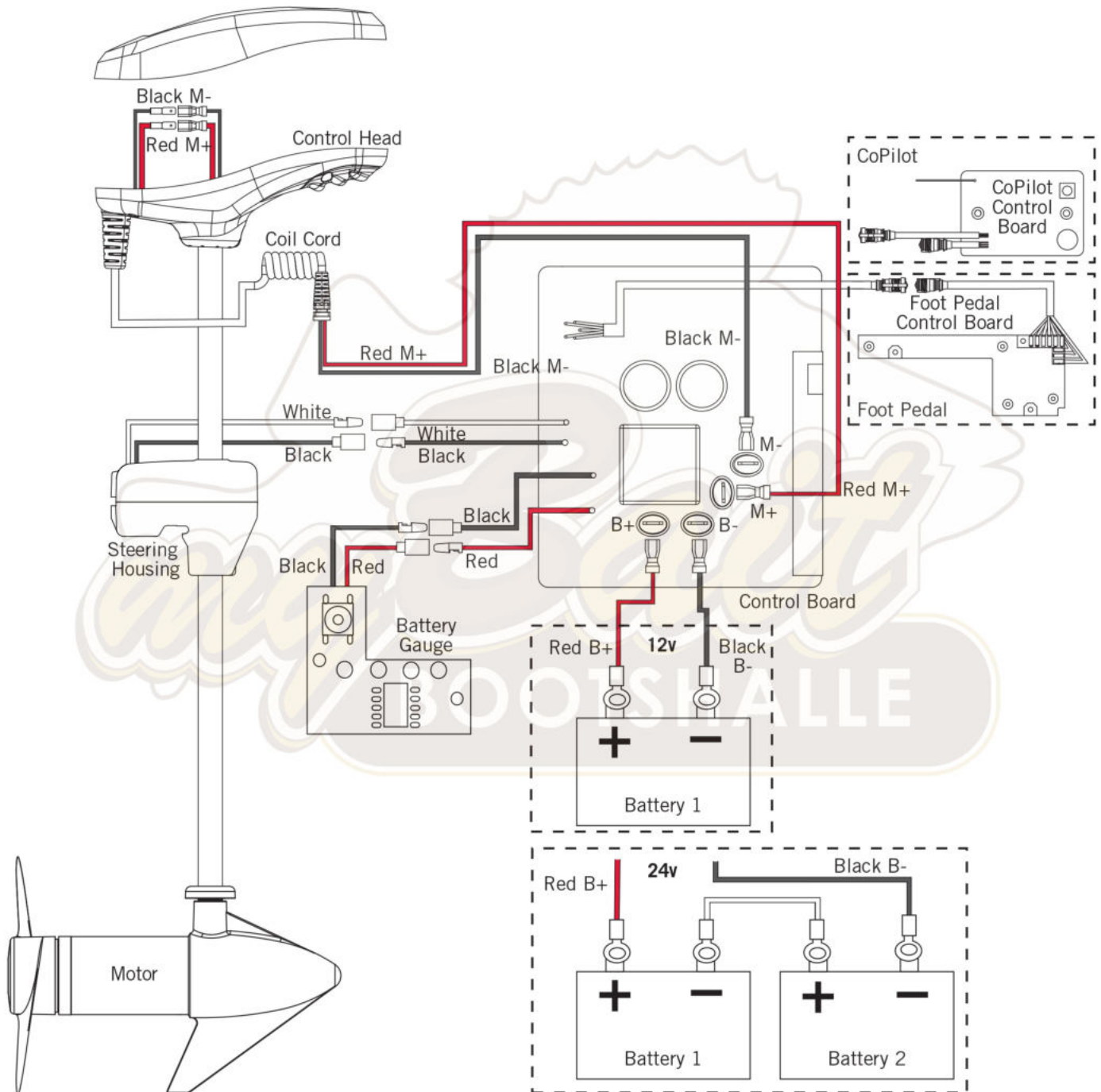
WARNING

- 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.

MOTOR WIRING DIAGRAM

RIPTIDE POWERDRIVE

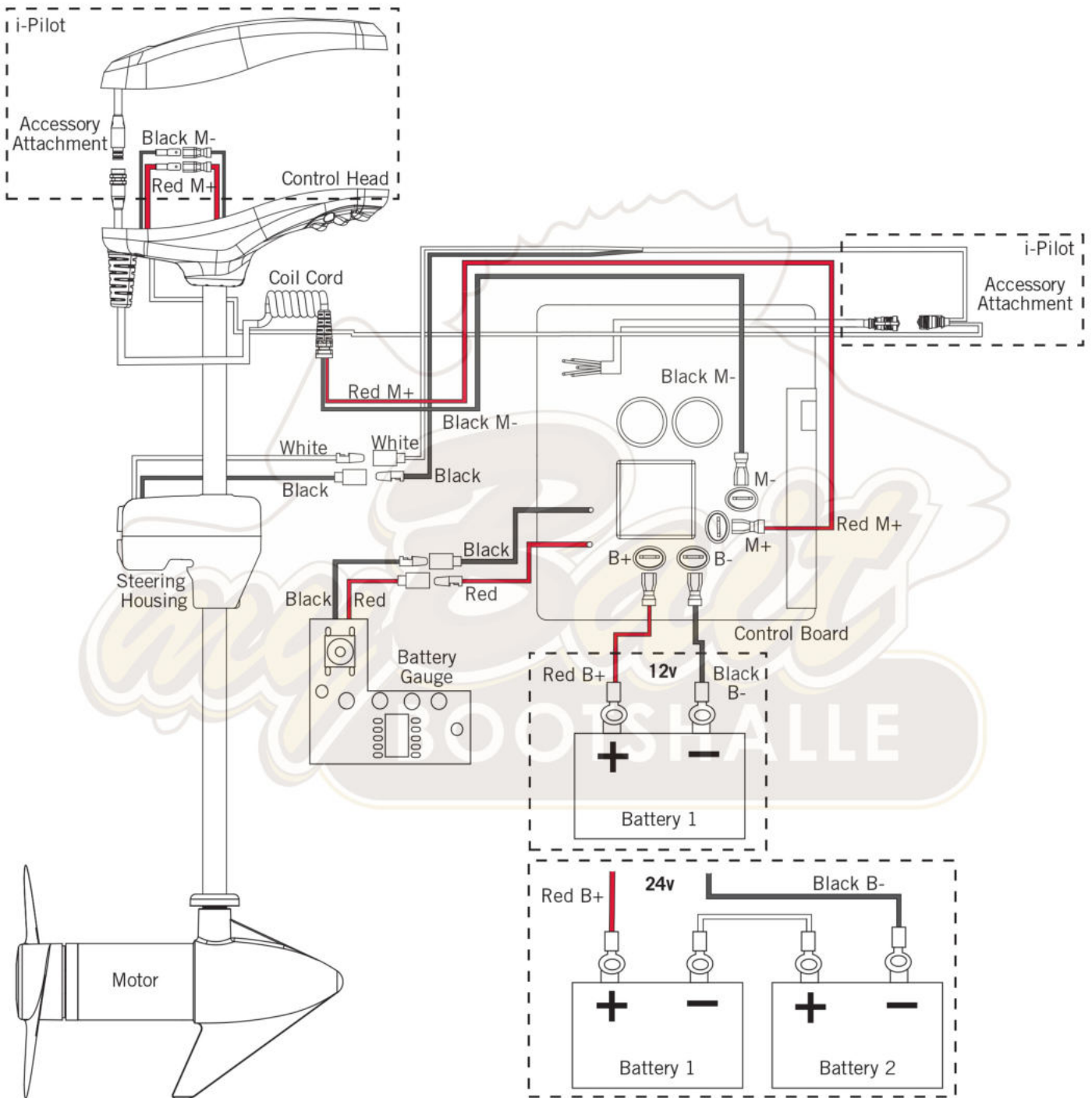
The following Motor Wiring Diagram applies to all Riptide PowerDrive models that do not come factory installed with i-Pilot. CoPilot may come factory installed, but can also be installed as an after market accessory.



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

RIPTIDE POWERDRIVE WITH i-PILOT

The following Motor Wiring Diagram applies to all PowerDrive models that come factory installed with i-Pilot.

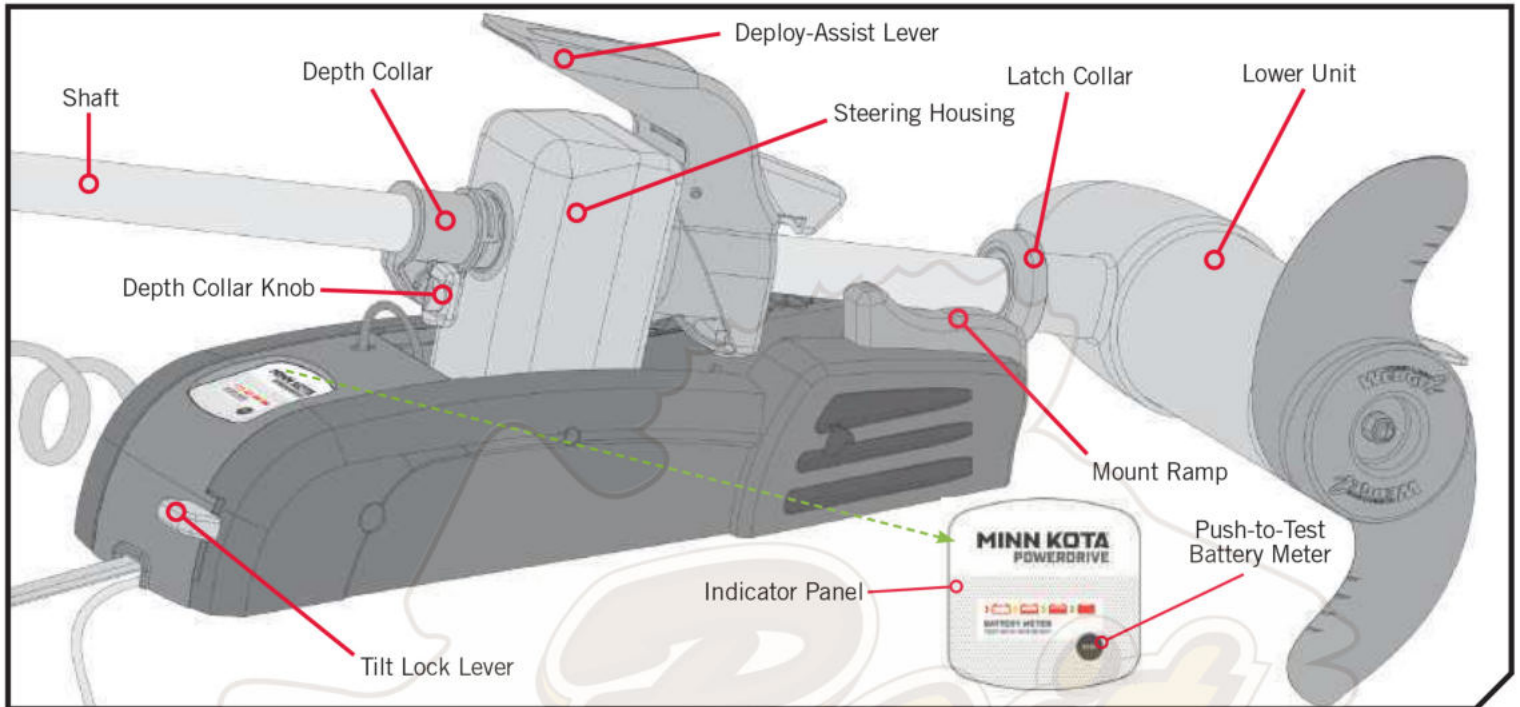


NOTICE: This is a multi-voltage diagram. Double-check your motor's voltage for proper connections. Over-Current Protection Devices are not shown in this illustration.

USING & ADJUSTING THE MOTOR

MOUNT FEATURES

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



› Depth Collar & Depth Collar Knob

The Depth Collar is located on the Shaft above the Steering Housing. It functions to hold the motor at the proper depth while deployed. It also functions to hold the Lower Unit in place when stowed while not in use and during transport. The Depth Collar Knob is used to loosen and tighten the Depth Collar so that it can be used to slide up and down the motor shaft.

⚠ WARNING

When the motor is being transported, it is important to place the Depth Collar snug against the Steering Housing and tighten. This provides a secure stow and holds the motor in place during transportation when it is subject to high levels of shock and vibration. Failure to secure the motor may result in injury or damage to the unit.

› Deploy-Assist Lever

The Deploy-Assist Lever is located at the top of the mount when the motor is in the stowed position. The Deploy-Assist Lever functions to unlatch the motor when it is stowed and press on the Latch Collar to assist in deploying the motor. The Deploy-Assist Lever also captures the Latch Collar when the motor is stowed, holding the motor in place so it can be secured with the Depth Collar.

› Latch Collar

The Latch Collar is located on the motor shaft just above the Lower Unit. It functions to help secure the motor in place while it is stowed. When stowed the Latch Collar is captured in the Deploy-Assist Lever.

⚠ WARNING

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

› Tilt Lock Lever

The Tilt Lock Lever is located at the base of the mount opposite of the Lower Unit. The Tilt Lock Lever is used to unlatch the Steering Housing from the stowed position so the motor can be tilted, pulled upwards and stowed.

› Mount Ramp

The Mount Ramp functions to hold the Lower Unit in place when the motor is stowed. The Lower Unit will rest on the Mount Ramp when stowed, helping to secure it in place.

WARNING

If a propeller encounters an obstruction while running, the increased electrical current being generated by the obstruction will signal the motor to decrease the power to the propeller to prevent damage. If the current overload is detected for more than 20 seconds, the prop will be disabled to prevent damage to the motor. In this event, the operator can turn the prop back on after being sure that the obstruction has been cleared.

STOWING AND DEPLOYING THE MOTOR

› To Deploy the Motor

Loosen the Depth Collar, then push firmly down on the Deploy-Assist Lever to release the Latch Collar and slide the motor forward, out from the Mount Ramp. Lower the motor to the desired depth. Make sure it clicks into a secure, vertical position. Once at the desired depth, slide the Depth Collar against the Steering Housing and tighten.

WARNING

When stowing or deploying the motor, keep fingers clear of all hinge and pivot points and all moving parts. Practice proper ergonomics when stowing and deploying the motor to prevent injury.

› To Stow the Motor

Loosen the Depth Collar and depress the Tilt Lock Lever and raise the motor by pulling up on the composite shaft or control head. Pull the motor toward the stern until it rests securely on the Mount Ramp and the Deploy-Assist Lever captures the Latch Collar. Slide the Depth Collar down and secure it against the top of the Steering Housing to secure the motor in place and prevent accidental deployment.

PUSH-TO-TEST BATTERY METER

This motor is equipped with a Push-to-Test Battery Meter. The LED lights are located on the Indicator Panel on the Mount of the motor. The Battery Meter provides an accurate display of the remaining charge in the battery. It is only accurate when the motor is off. The meter reads as follows:

- One light indicates recharge.
- Two lights indicate low charge.
- Three lights indicate good charge.
- Four lights indicate full charge.

Indicator Panel



Push-to-Test Battery Meter

MOTOR ADJUSTMENTS ›

› Adjusting the Depth of the Motor

Once the boat is on the water, it may be necessary to adjust 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 motor is submerged at least 12" below the surface of the water to avoid churning or agitation of surface water.

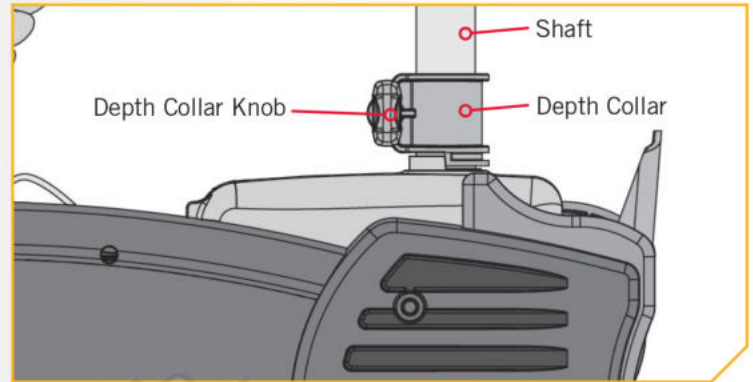
ADJUSTING THE LATCH COLLAR

1

- With the motor in the deployed position, locate the Depth Collar on the Shaft above the Steering Housing.
- While holding the Shaft, loosen the Depth Collar Knob until the Shaft can slide up and down freely.

WARNING

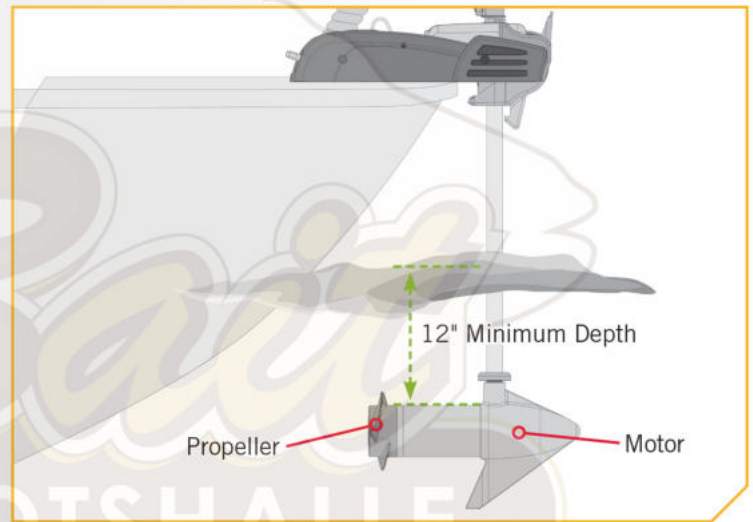
The Control Head will create a pinch point if the Depth Collar Knob is loosened and the Control Head slides to the top of the Depth Collar. Grasp the Shaft and prevent it from sliding all the way down to prevent the pinch point.



2

- Raise or lower the motor to the desired depth.
- Turn the motor control head to the desired position.
- Slide the Depth Collar against the Steering Housing and tighten the Depth Collar Knob to secure the motor in place.

NOTICE: Be sure the top of the motor is submerged at least 12" below the surface of the water to avoid churning or agitation of surface water.

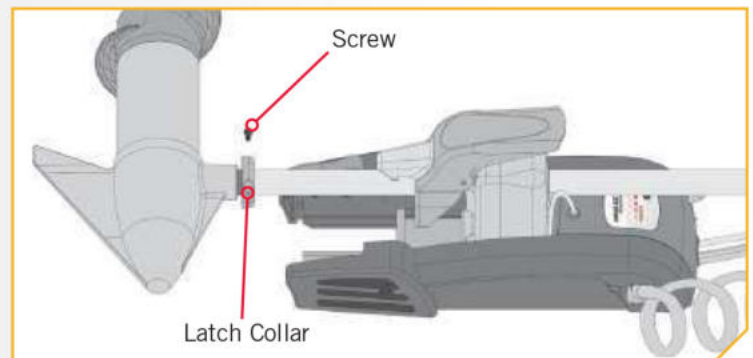


Adjusting the Latch Collar

Once the motor has been used, it may be necessary to adjust the Latch Collar up or down. The ideal adjustment is a slightly loose fit that completely captures the Latch Collar in the Deploy Assist Lever when stowed.

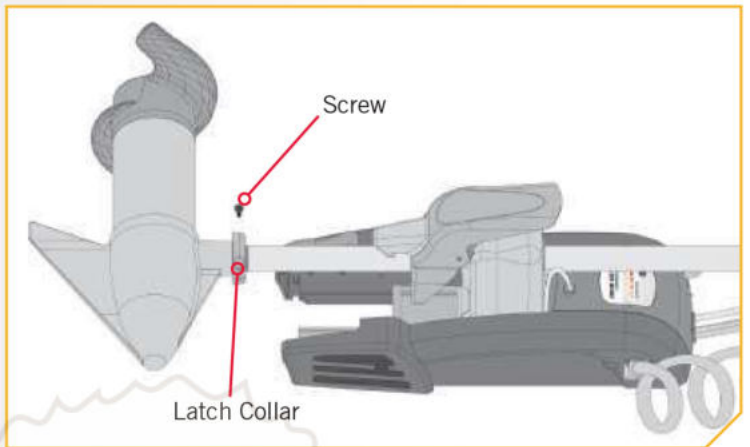
1

- With the motor in the stowed position, locate the Latch Collar.
- Using a #2 Phillips Screwdriver, loosen the screw securing the Latch Collar in place.



2

- c. Rotate the Latch Collar so it fits comfortably within the hold of the Deploy Assist Lever.
- d. Re-tighten the screw to secure the Latch Collar in place.

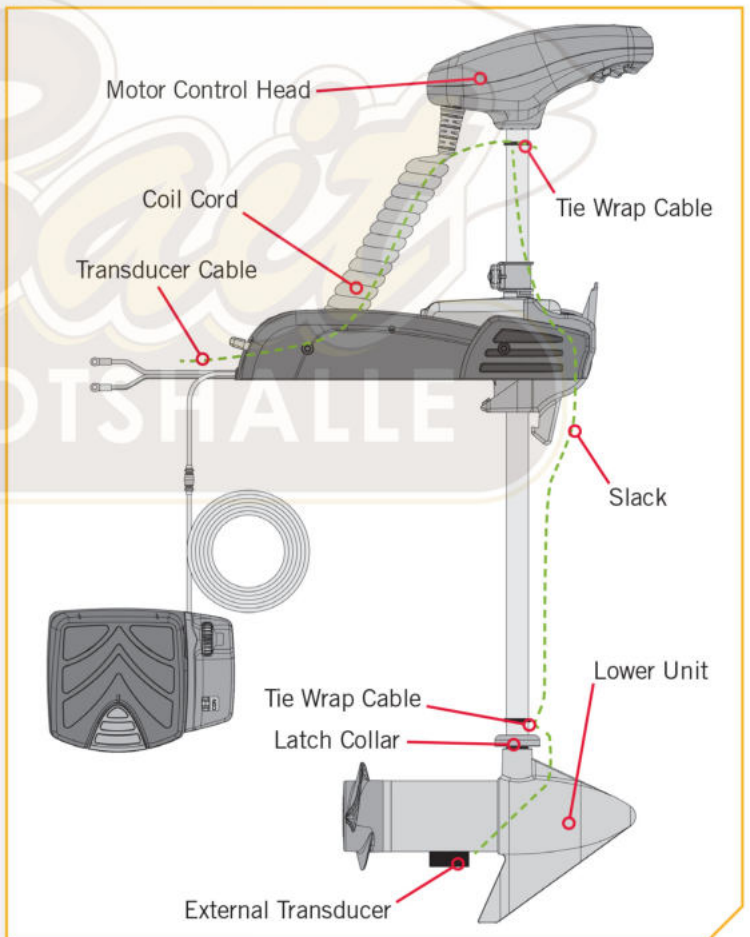


Installing an External Transducer

An external transducer is not included with your trolling motor. An external transducer can be installed onto the motor.

1

- a. Mount the External Transducer according to directions provided with the transducer.
- b. Leave enough slack in the Transducer Cable between the Lower Unit and Motor Control Head to allow the motor to properly stow and deploy.
- c. Use two tie wrap cables to secure the Transducer Cable to the Shaft just above the Latch Collar and just below the Motor Control Head.
- d. Run the Transducer Cable through the Coil Cord to the fish finder.



CAUTION

Not following the recommended wire routing for the External Transducer may cause damage to the product and void your product warranty. Take care to test the length and placement of cable to be sure that there is enough slack where needed and that cables are free of being entangled in moving parts. Routing the cables in any way other than directed may cause damage to the cables by being pinched or severed.

ADJUSTING THE LOWER UNIT FOR A SECURE STOW

▶ Adjusting the Lower Unit for a Secure Stow

When the Motor is stowed, the Lower Unit should rest on the Mount Ramp, a part of the Motor Mount. It is recommended to secure the motor using the following instructions to avoid damage to the motor and shaft from vibrations during transport.

1

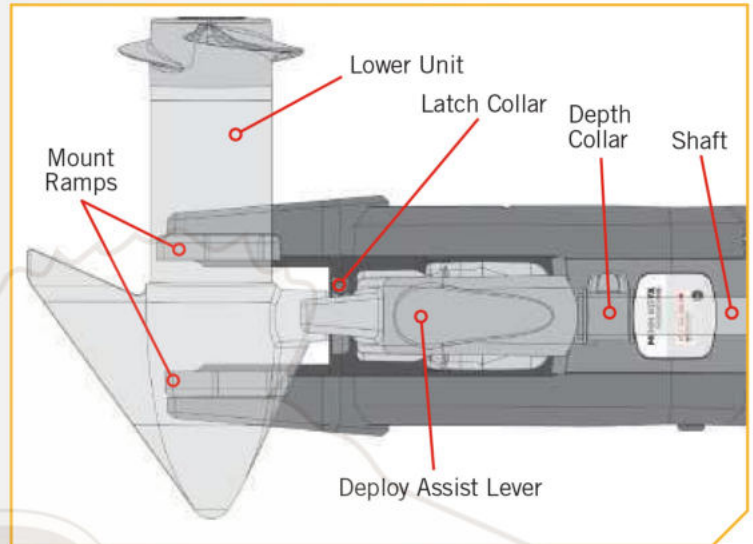
- a. Before transporting the boat over water or land, stow the motor to determine where the Lower Unit rests on the Mount Ramp.

NOTICE: The correct positioning of the Lower Unit will place it directly on the Mount Ramps.

- b. If the Lower Unit does not sit on the Mount Ramps, refer to the Adjusting the Latch Collar section of this manual. Making adjustments to the Latch Collar will help the Lower Unit stay on the Mount Ramps as it is captured by the Deploy Assist Lever.

CAUTION

The Lower Unit should be placed on the Mount Ramps every time the motor is transported. If the Lower Unit is improperly placed, either above or below the Motor Rest Area, damage to the Lower Unit or Shaft will occur and the Shaft will be incorrectly captured. Not following the recommended placement for the Lower Unit will cause damage to the product and void your product warranty.



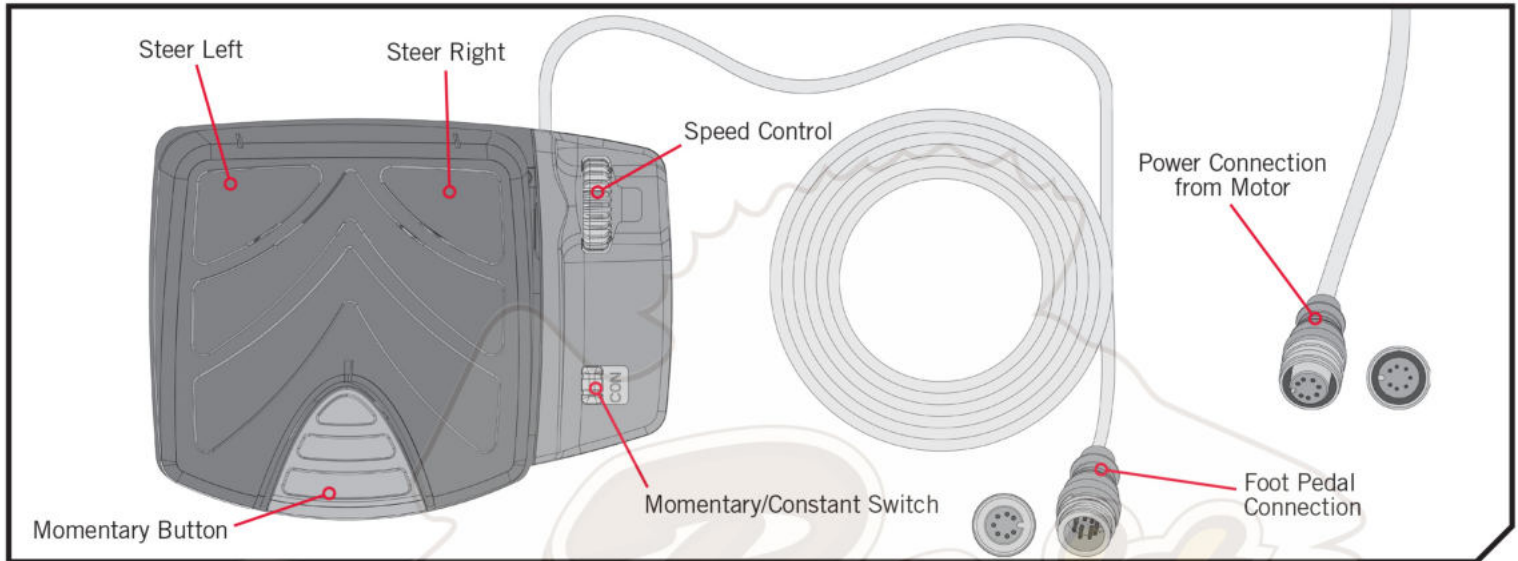
NOTICE: Slide the Depth Collar down and secure it against the top of the Steering Housing when stowed to secure the motor in place and prevent accidental deployment.

BOOTSHALLE

USING THE FOOT PEDAL

CONTROLLING SPEED & STEERING WITH THE FOOT PEDAL

The foot pedal is used to operate the motor, and controls on the foot pedal are easy to operate by either foot or hand. The motor can also be controlled by an i-Pilot remote, or a compatible Minn Kota remote if applicable. Please refer to the i-Pilot or compatible remote manual on how the remote controls the motor. To learn more about accessories that are compatible with the PowerDrive please visit minnkotamotors.com.



› Momentary Button

The Momentary Button is located at the heel end of the foot pedal and is used to turn the propeller on.

› Momentary/Constant Switch

The Momentary/Constant Switch is used to toggle between Momentary and Constant Mode. During Momentary Mode (MOM), the propeller only turns while pressure is applied to the Momentary Button. While in Constant Mode (CON), the propeller will run continuously regardless of pressure being applied to the Momentary Button.

If a propeller encounters an obstruction while either in Momentary or Constant Mode, while the propeller is running, the increased electrical current being generated by the obstruction will signal the motor to decrease the power to the propeller to prevent damage. If the current overload is detected for more than 20 seconds, the prop will be disabled to prevent damage to the motor. In this event, the operator can turn the prop back on after being sure that the obstruction has been cleared.

› Speed Control

The Speed Control dial is on the upper right side of the toe end of the Foot Pedal. Turn the Speed Knob forward to increase speed and backward to decrease speed. Speed can also be adjusted using the remote, if applicable.

› Steer Right and Steering Left

The main button on the foot pedal is to control steering. Steer Right by applying pressure to the right side of the button and Steer Left by applying pressure to the left side of the button. The position and direction of the Steering Head directly corresponds to the position of the motor. You must use your foot on the pedal to control the steering direction during manual operation. The direction of the motor can also be controlled with the remote.

⚠ CAUTION

The steering system is designed to turn your motor 360°. Be careful to avoid over-wrapping the coil cord around the composite shaft. Damage to the coil cord can occur when it is over-wrapped, which will prevent the motor from operating correctly.

CONTROLLING SPEED & STEERING WITH THE FOOT PEDAL

› Steering in Reverse

The propeller always turns in the forward direction. You can reverse the direction of thrust by turning the motor 180°.

NOTICE: The motor will not auto correct to drive straight.

WARNING

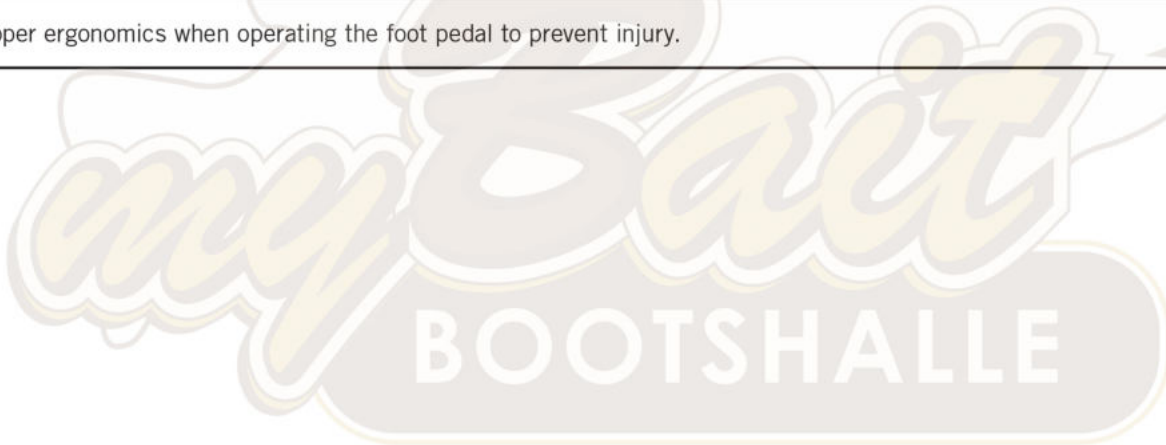
You are responsible for the safe and prudent operation of your vessel. We have designed PowerDrive to be an accurate and reliable tool that will enhance boat operation and improve your ability to catch fish. This product does not relieve you from the responsibility for safe operation of your boat. You 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 PowerDrive in an area free from hazards and obstacles.

CAUTION

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

WARNING

Practice proper ergonomics when operating the foot pedal to prevent injury.

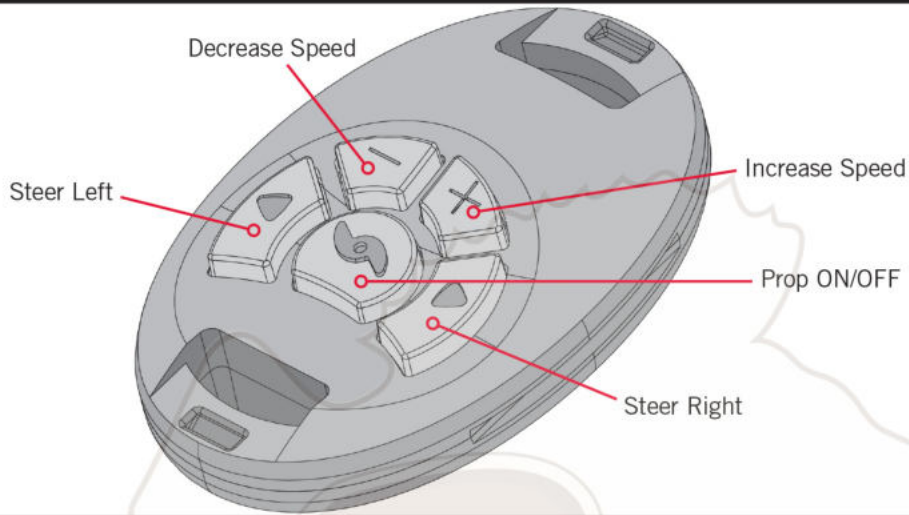


COPILOT

CONTROLLING THE MOTOR WITH COPILOT

Review the complete CoPilot section of this manual to become familiar with this feature. For more information on CoPilot or for additional product support, please visit minnkotamotors.com.

NOTICE: Your motor may come factory installed with CoPilot.



› Prop ON/OFF

This button is located in the middle of the remote. It turns the propeller on or off. Press the button once to turn the propeller ON; press button a second time to turn it OFF. The button does not need to be held down.

› Steer Left & Steer Right

These buttons are located to the right and left of the Prop ON/OFF button and have an arrow symbol. They cause the motor to turn in the desired direction as long as the button is held down. If the Steer Right or Steer Left button is held for more than seven seconds, the steering will automatically stop until the button is pressed again.

› Increase Speed & Decrease Speed

The Increase Speed and Decrease Speed buttons are located on the top of the remote and are identified with a positive and negative symbol. Pressing and releasing these buttons causes the speed to increase or decrease by increments of 1. The speed is adjustable from level 0-10. At level 0, the prop will not turn.

In audio mode 2, an audible beep is heard for each increment when changing speed. Attempting to go higher than speed 10 or lower than speed 0 will result in the speed not changing and no beep will be heard. See the Audio Mode section for more information.

If the receiver senses no foot pedal (if applicable) or remote operation for 1 hour, the remote speed setting is automatically set to zero. This helps prevent unintentional activation of the propeller if the prop on/off remote button is inadvertently pressed.

COPILOT GENERAL OPERATION

› Operating with the Remote and Foot Pedal (Foot Pedal only available on select models.)

- When the Momentary/Constant Switch on the Foot Pedal is in the CON position or when the Momentary Button is held, the receiver WILL NOT RESPOND to any remote commands. When remote commands are received, the receiver will emit an audible chirp. This will indicate that the remote is functioning properly, but the Foot Pedal is active and is overriding the remote.
- When the Momentary/Constant Switch is in the MOM position, the operator may begin using the remote at any time.

AUDIO MODES

- As soon as any remote button is pressed, the initial speed setting will be set to approximately the same value as the Speed Control value on the Foot Pedal. The prop will not automatically turn on until the Prop ON/OFF button on the remote is pressed.
- Pressing the Momentary Button on the Foot Pedal or adjusting the Speed Control dial will override the remote and receiver function. Control of the motor will automatically go to the Foot Pedal. The prop speed will also revert to the current value of the Speed Control dial on the Foot Pedal.

› Operating without the Foot Pedal (Foot Pedal only available on select models.)

- If the foot pedal is not being used, the CoPilot receiver will always react to any commands from the CoPilot remote.

AUDIO MODES

There are three receiver Audio Modes available. The unit is factory set to Audio Mode 2. To switch from one audio mode to another, simultaneously press and hold the increase and decrease speed buttons for one second. The receiver will respond with 1, 2 or 3 audible beeps indicating the corresponding receiver audio mode change.

Audio Mode	Function
Mode 1	All of the normal audible sounds mentioned in this owners manual, but no audible beeps for speed increase/ decrease or prop on/off.
Mode 2	Same as audio mode 1 plus an audible beep for speed increase / decrease and prop on/off.
Mode 3	Same as audio mode 2 plus the prop on audible tick every 1.5 seconds.

NOTICE: When the Foot Pedal (if applicable) is operating the motor and the propeller is on, the prop on indicator tick will be heard if the receiver is set to Audio Mode 3.

Audio Pattern	What Condition Causes Audio Pattern	Audio Mode
1 Beep	Pressing the Increase Speed or Decrease Speed button	Modes 2 and 3
1 Beep	Pressing the Prop ON/OFF button to turn the Prop on	Modes 2 and 3
2 Beeps	Pressing the Prop ON/OFF button to turn the Prop off	Modes 2 and 3
Single tick every 1.5 seconds	When the Prop is active including when Speed Control dial is set to 0	Mode 3
1 Beep	Switching to audio Mode 1	All
2 Beeps	Switching to audio Mode 2	All
3 Beeps	Switching to audio Mode 3	All
1 Chirp	Every time the receiver is powered up and there is at least one remote learned	All
2 second long Beep	Every time the receiver is powered up and there are no remotes learned	All
5 Beeps	Speed Control dial on Foot Pedal (if applicable) is moved after speed has been adjusted with remote	All
Steady Tone	Heard while holding down the Learn button on the receiver	All
4 Beeps	Heard after a remote button is pressed while the receiver learns it.	All
Ten second warbling sound that transitions into a steady tone	Heard during the process used to clear all stored remote. after the learn switch is released, a 2 second long beep will be heard	All
1 long Beep, 2 short Beeps, pause (repeat)	Powered up with Momentary/Constant Switch in the CON position (or the Momentary Button held) when the Foot Pedal (if applicable) is moved to momentary, the power up audio will be heard	All

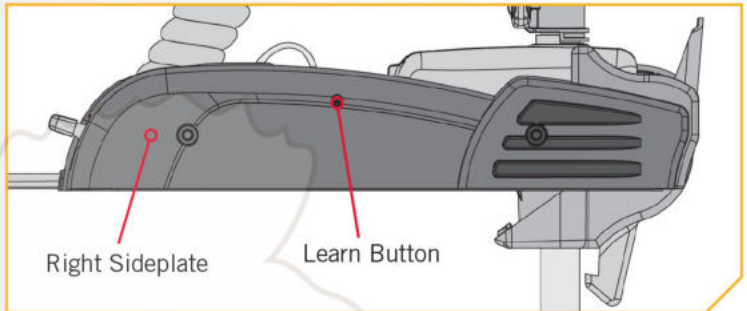
ADDING/REMOVING REMOTES

The CoPilot remote came from the factory already "Learned" by the CoPilot receiver. Any additional remotes must be "Learned" by the receiver. The receiver stores all "Learned" information even when the motor is disconnected from a power source.

› To "Learn" Remotes

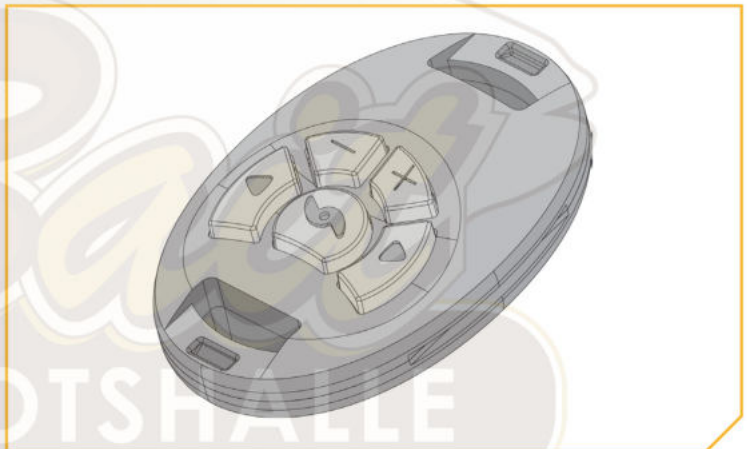
Your receiver may learn up to ten remotes. Any additional remotes can be "Learned" using the following steps. This will also work to "Learn" any remote if all remotes are erased from the receiver.

- 1
 - a. Using a small blunt object such as a pen or screwdriver, press and hold the Learn Button located on the side of the receiver.
 - b. The receiver will emit a continuous tone.



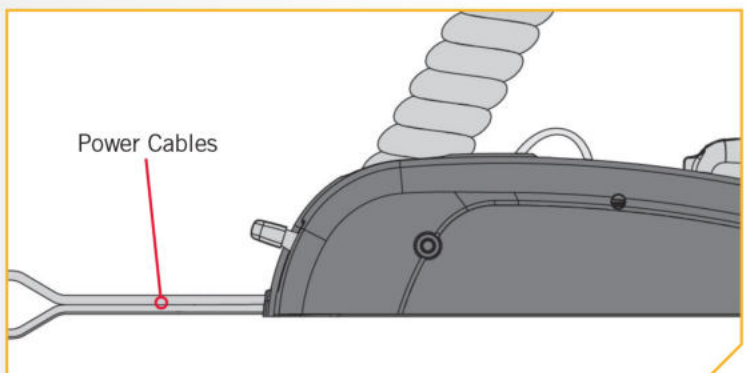
- 2
 - c. Press any button on the remote.
 - d. The receiver will beep 4 times confirming that it has "Learned" the remote successfully.

NOTICE: "Learning" the same remote will not overwrite previously "Learned" remotes. If the receiver has "Learned" ten remotes, "Learning" an eleventh remote will overwrite the first remote.



› To Erase All Remotes from the Receiver

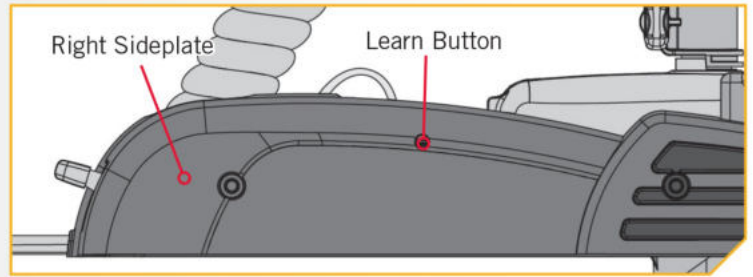
- 1
 - a. Remove power from the CoPilot receiver by disconnecting the Power Cables, or by making sure that the breaker, if equipped, is "off".



REPLACING THE BATTERY

2

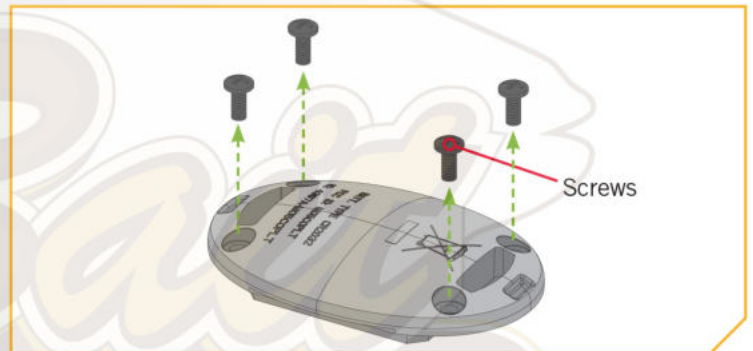
- b. Press and hold the Learn Button and power up the CoPilot receiver by reconnecting the Power Cables, or by making sure that the breaker, if equipped, is "on".
- c. Continue to hold the Learn Button down for 10 seconds. During this time the receiver audio will emit a warble sound, slowly transition to a constant beep and then shut off.
- d. Release the Learn Button and the receiver will reboot. The receiver will emit a 2 second long beep indicating memory is empty. This audio pattern will occur each time the receiver powers up until a remote ID number is "Learned".



Replacing the Battery

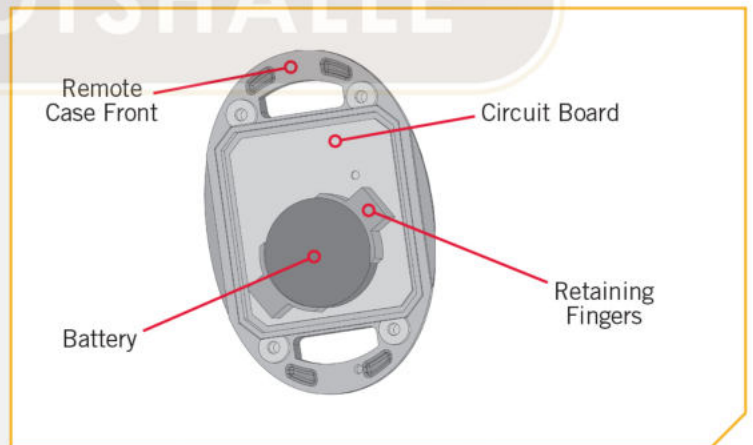
1

- a. Temporarily ground yourself by touching a grounded metal object in order to discharge any static electricity in your body.
- b. Remove the four screws on the bottom of the remote case.
- c. Separate the case halves to access the circuit board.



2

- d. To remove the Battery, place the tip of a finger or thumb under the exposed edge of the Battery and pry it upwards.
- e. Install the new battery with the positive (+) side of the Battery facing up and away from the Circuit Board. Ensure Battery is snapped securely in place.

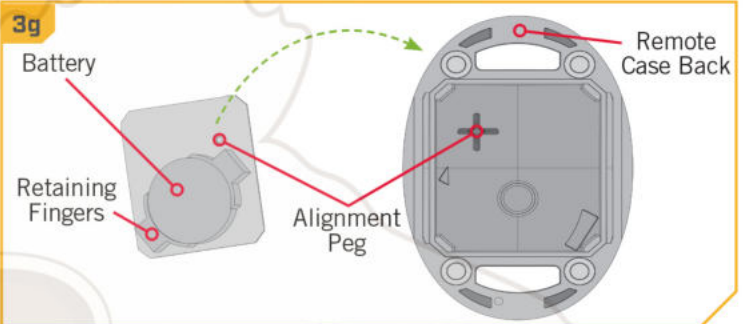
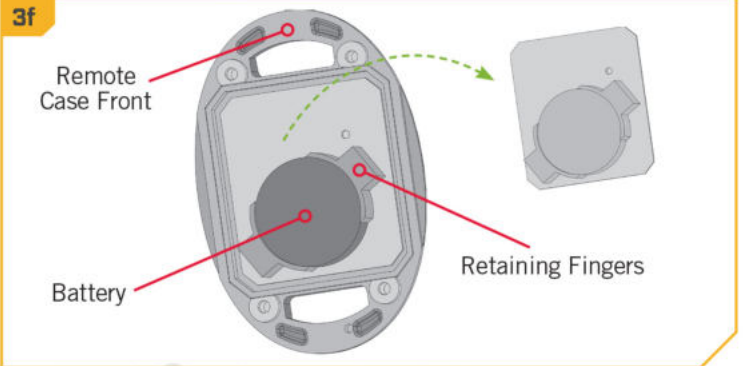


NOTICE: The replacement battery must be a model CR2032 coin cell type. It is strongly recommended that a name brand battery is used.

REPLACING THE BATTERY

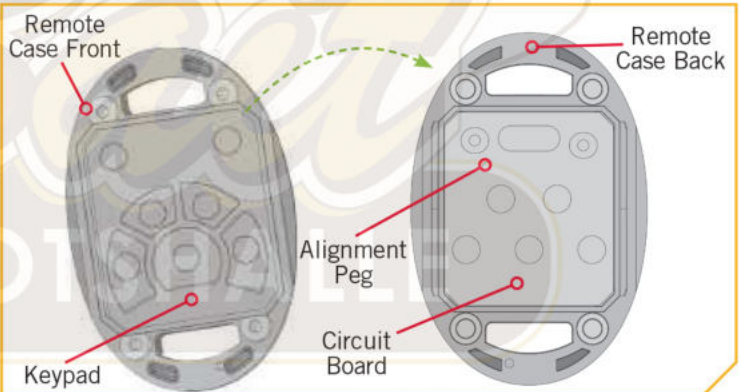
3

- d. Reassemble the remote. Begin by removing the board from the front of the remote case. This is the same board that holds the battery. Leave the Keypad in place on the front of the remote.
- e. Note that the alignment peg in the back of remote case must line up with the corresponding alignment hole in the circuit board. Place the board with the battery facing down on the back of the remote case.



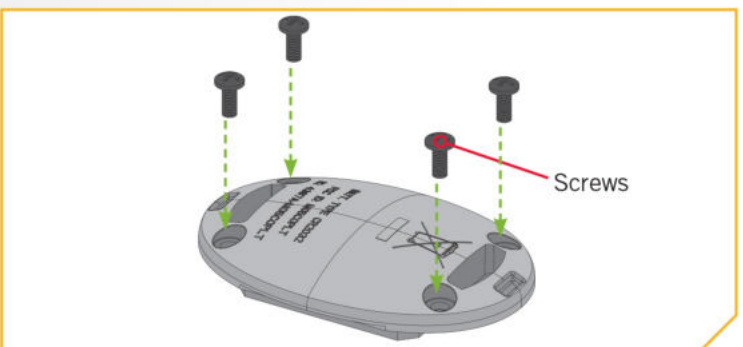
4

- f. Position the back of the remote case so that the Alignment peg is towards the top when the remote is laying on a flat surface. Position the front of the remote case so the keypad and the curved buttons are towards the bottom when the remote is laying on a flat surface.
- g. Keep the back of the Remote Case flat. Place the front of the Remote Case, with the Keypad in place, on the back of the Remote Case. Make sure the Case is seated.



5

- h. Reinstall the four case screws and tighten them as required.



SERVICE & MAINTENANCE

PROPELLER REPLACEMENT

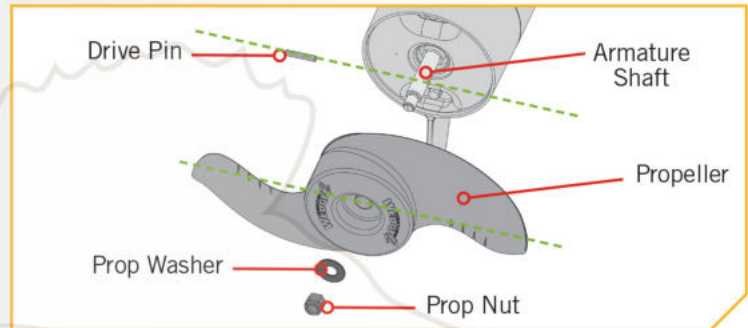
TOOLS AND RESOURCES REQUIRED >

- 9/16" Open End Wrench
- Flat Blade Screwdriver

INSTALLATION >

- Disconnect the motor from all sources of power prior to changing the propeller.
 - Hold the propeller and loosen the Prop Nut with a pliers or a wrench.
 - Remove the Prop Nut and Prop Washer.

NOTICE: If the Drive Pin is sheared or broken, you will need to hold the shaft stationary with a flat blade screwdriver pressed into the slot on the end of the shaft while you loosen the Prop Nut.



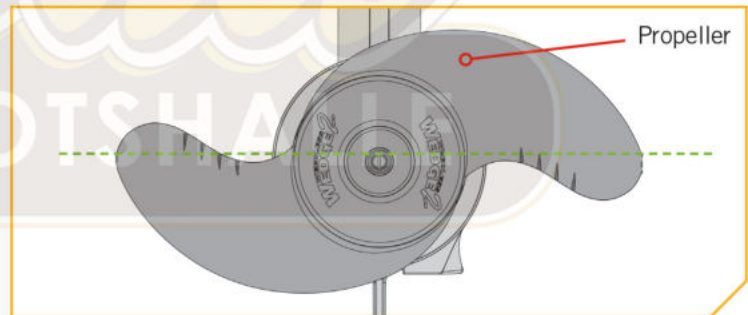
CAUTION

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

- Turn the old prop to horizontal and pull it straight off. If drive pin falls out, push it back in.

CAUTION

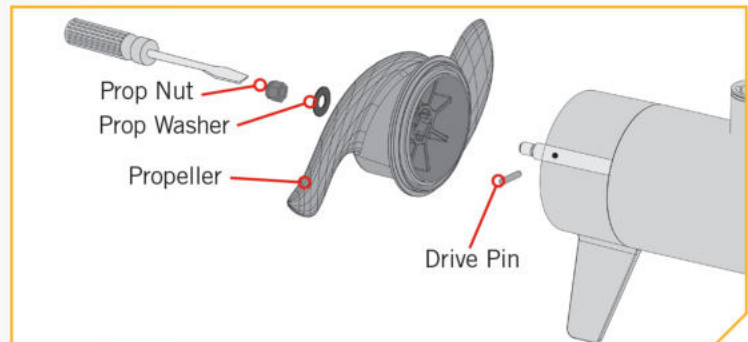
If the prop does not readily slide off, take care to not bend the Armature Shaft while removing the prop by pulling the prop evenly off the Armature Shaft.



- Align the new Propeller with the Drive Pin.
 - Install the Prop Washer and Prop Nut.
 - Tighten the Prop Nut 1/4 turn past snug at 25-35 inch-lbs.

CAUTION

Do not over tighten as this can damage the prop.



GENERAL MAINTENANCE

After every use, the entire motor should be rinsed with freshwater, then wiped down with a cloth dampened with an aqueous based silicone spray.

- Do not spray water into the ventilation openings in the head of the motor.
- The composite shaft requires periodic cleaning and lubrication for proper retraction and deployment. A coating of an aqueous based silicone spray will improve operation.
- The propeller must be inspected and cleaned of weeds and fishing line after every use. Fishing line and weeds can get behind the prop, damage the seals and allow water to enter the motor.
- Verify the prop nut/anode is secure each time the motor is used.
- To prevent accidental damage during transportation or storage, disconnect the battery whenever the motor is off of the water.
- For prolonged storage, lightly coat all metal parts with an aqueous based silicone spray.
- For maximum battery life, recharge the battery(s) as soon as possible after use. For maximum motor performance, restore battery to full charge prior to use.
- Keep battery terminals clean with fine sandpaper or emery cloth (flooded lead acid only).
- The propeller is designed to provide optimum operation with very high efficiency. To maintain this top performance, the leading edge of the blades must be kept smooth. If they are rough or nicked from use, restore to smooth by sanding with fine sandpaper.
- Stow the motor after each use to allow water to drain from the steering housing. Water that sits in the steering housing when the motor is not in use may cause damage.

TROUBLESHOOTING

1. Motor fails to run or lacks power:
 - Check battery connections for proper polarity.
 - Make sure terminals are clean and corrosion free. Use fine sandpaper or emery cloth to clean terminals.
 - Check battery water level. Add water if needed.
2. Motor loses power after a short running time:
 - Check battery charge. If low, restore to full charge.
3. Motor is difficult to steer:
 - Check steering cables for proper tension. Adjust as necessary.
4. You experience prop vibration during normal operation:
 - Remove and rotate the prop 180°. See removal instructions in the Propeller Replacement Section.
5. Experiencing interference with your fish finder:
 - You may, in some applications, experience interference in your depth finder display. We recommend that you use a separate deep cycle marine battery for your trolling motor and that you power the depth finder from the starting/cranking battery. If problems still persist, call our service department at 1-800-227-6433.

NOTICE: For all other malfunctions, visit an Authorized Service Center. You can search for an Authorized Service Center in your area by visiting our Authorized Service page, found on-line at minnkotamotors.com, or by calling our customer service number at 800-227-6433.

TROUBLESHOOTING THE COPILOT

TROUBLESHOOTING THE COPILOT

Cause	Effect	Solution
Remote is not transmitting.	The battery is discharged.	Replace battery.
	Receiver may not have "learned" the remote.	Remote needs to be learned. See the Adding/Removing Remotes section of this manual to learn the remote.
	With the foot pedal (if applicable) connected, the MOM-CON switch is in the CON position. An audio response will be heard if a button is pressed with the foot pedal in the CON position.	The foot pedal (if applicable) switch must be placed in Momentary Mode (MOM). The receiver will not accept any commands from the remote with the switch in the Constant Mode (CON) position.
	If remote has been taken apart, the keypad and top case may have been installed backwards.	Take remote apart. See the Replacing the Battery section of this manual and reinstall case halves with the proper orientation.
When receiver is powered up, it sounds a beep pattern (1 long beep, 2 short beeps, pause, repeat).	The foot pedal (if applicable) Momentary/Constant Switch is in the CON position.	The foot pedal (if applicable) switch must be placed in the MOM position. The beeping sound will continue until the switch is placed in the MOM position.
The prop is not turning but the Prop ON audio pattern is still going.	Prop Speed is set at "0".	Increase the Prop Speed above "0"
	The Prop ON audio pattern occurs only in Audio Mode 3	Switch Audio Mode to either Audio 1 or 2. See the Audio Modes section of this manual.

FOR FURTHER TROUBLESHOOTING AND REPAIR

We offer several options to help you troubleshoot and/or repair your product. Please read through the options listed below.



Buy Parts Online

You can buy parts on-line directly from our website at minnkotamotors.com. Orders confirmed by 12 noon central time will ship same day if in stock. Orders after 12 noon central time will ship the next business day if in stock.



Frequently Asked Questions

We have FAQs available on our website to help answer all of your Minn Kota questions. Visit minnkotamotors.com and click on "Frequently Asked Questions" to find an answer to your question.



Call Us (for U.S. and Canada)

Our consumer service representatives are available Monday – Friday between 7:00 a.m. – 4:30 p.m. CST at 800-227-6433. If you are calling to order parts, please have the 11-character serial number from your product, specific part numbers, and credit card information available. This will help expedite your call and allow us to provide you with the best consumer service possible. You can reference the parts list located in your manual to identify the specific part numbers.



Email Us

You can email our consumer service department with questions regarding your Minn Kota products. To email your question, visit minnkotamotors.com and click on "Support".



Authorized Service Centers

Minn Kota has over 800 authorized service centers in the United States and Canada where you can purchase parts or get your products repaired. Please visit our Authorized Service Center page on our website to locate a service center in your area.



Scan to visit Minn Kota service online.

COMPLIANCE STATEMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT

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

WEEE DIRECTIVE

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

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

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



DISPOSAL

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

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

REGULATORY COMPLIANCE INFORMATION

› i-Pilot Equipped Motors

For regulatory information on motors that come factory installed with i-Pilot, please refer to the i-Pilot Owner's Manual on-line at minnkotamotors.com.

› Model: CoPilot

This is only applicable to motors factory installed with CoPilot

- IC: 4397A-M05COPLT
- FCC ID: M05COPLT



FCC COMPLIANCE

FCC COMPLIANCE

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

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

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

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

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

INDUSTRY CANADA COMPLIANCE

This product meets the applicable Industry Canada technical specifications. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

ENVIRONMENTAL RATINGS

Ambient operating temperature range: -10C to 50C

Ambient operating humidity range: 5% to 95%

Maximum operating altitude: 10,000 feet

CE MASTER USER MANUAL [FOR CE CERTIFIED MODELS]

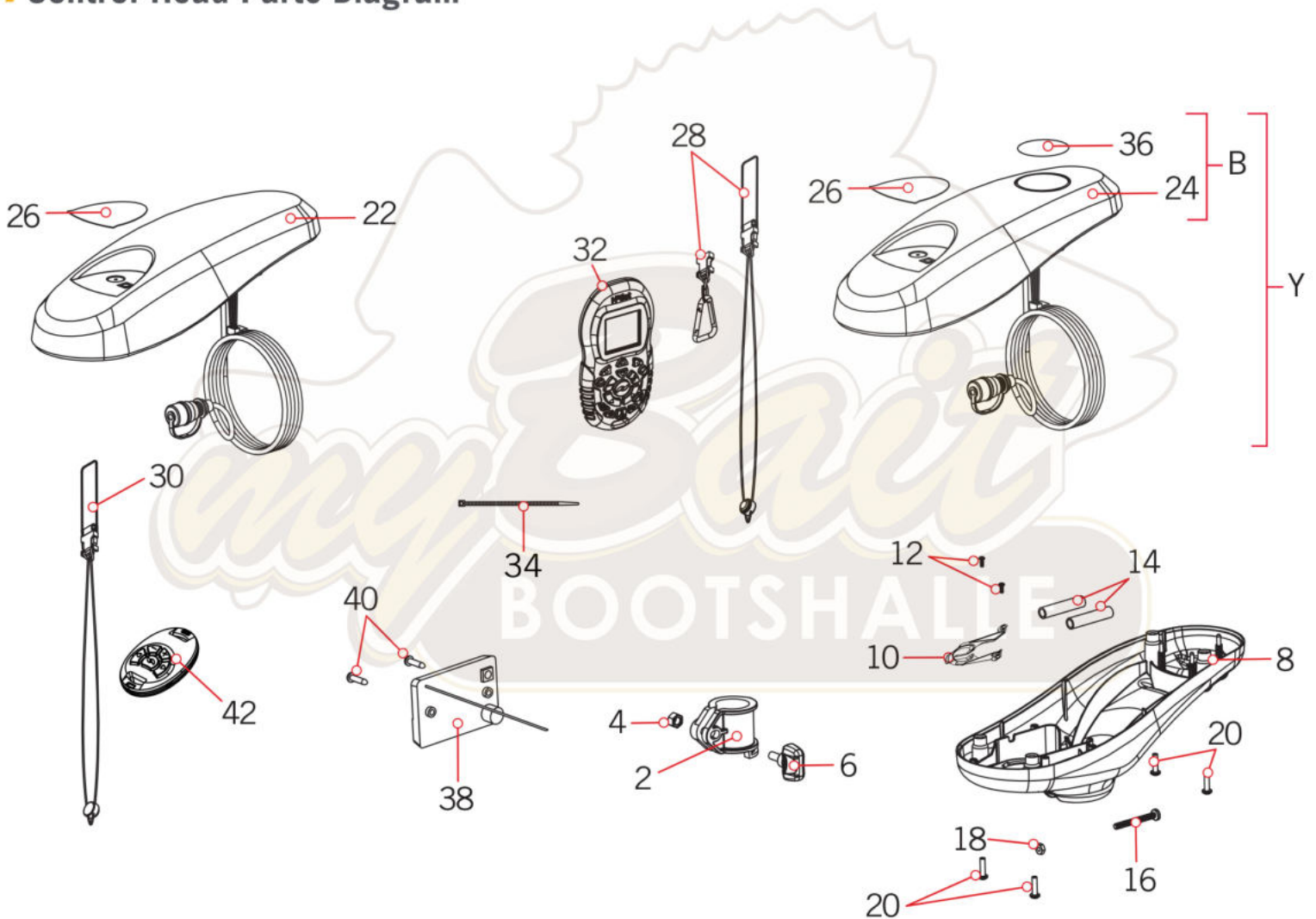
PARTS DIAGRAM & PARTS LIST

RIPTIDE POWERDRIVE - 55/70 LBS THRUST - 12/24 VOLT - 48"/54" SHAFT

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

RIPTIDE POWERDRIVE CONTROL HEAD >

> Control Head Parts Diagram



PARTS DIAGRAM & PARTS LIST

Control Head Parts List

Assembly	Part #	Description	Notes	Quantity
B	2770219 ♦	COVER KIT, RIPTIDE POWERDRIVE	*I-PILOT COVER & DECALS ONLY*	1
Y	2774126 ♦	MOTOR KIT, iP 1.6 RT POWERDRIVE	*i-PILOT RECEIVER*	1
Item	Part #	Description	Notes	Quantity
2	2031522	COLLAR DRIVE (W/INSERT)		1
4	2323104	HEX NUT ¼ -20 SS		1
6	2011366	SCREW-COLLAR/NEW KNOB(SS)	*SALTWATER*	1
8	2292506	CONTROL BOX A/P RT-WHITE	*SALTWATER*	1
10	2224707	PLUG, SCREW-DOWN, WHT		1
12	2372103	SCREW-#6 X .375 PLASTITE SS		2
14	2305402	SHRINK TUBE-.374 OD X 2.25"	*SALTWATER*	2
16	2263406	SCREW-#10-24 X 2" S/S PPH		1
18	2333101	NUT-HEX #10-24 UNC-2B NYL SS	*SALTWATER*	1
20	2372100	SCREW-#8-18 X 5/8 THD* (SS)		5
22	2290218	COVER, CTRL BOX, RT PD PRINTED		1
24	2290213 ♦	COVER, CTRL BOX RT PD PRINTED	*iPILOT*	1
26	2315608	DECAL, COVER, RT PD 55	*55LB*	1
	2315607	DECAL, COVER, RT PD 50	*70LB*	1
	2315731	DECAL-GENERIC, PUSH BTN TOP SW		1
	2395551 ♦	DECAL, PUSH BTN RT PD, TRV/iP 55	*iPILOT*	1
	2315604 ♦	DECAL, PUSH BTN TOP, RT V3 70iP	*iPILOT*	1
28	2390800 ♦	LANYARD, REMOTE W/ CARABINER		1
30	2390801 ●	LANYARD, REMOTE	*COPILOT*	1
32	2994075 ♦	REMOTE ASSY, iPILOT 1.6		1
34	2256300	TIE WRAP - 5.5" BLACK	*70LB*	1
36	2395546 ♦	DECAL. DOMED iPILOT SW		1
38	2994123 ●	RECEIVER ASM CO-PILOT SW		1
40	2373418 ●	SCREW-#8 X 5/8 PPHSS S/S	*COPILOT ONLY* *SALTWATER*	2
42	2994020 ●	TRASMTR, ASY, PD/AP COPLT	*COPILOT ONLY* *SALTWATER*	1
▲	2397100 ♦	MANUAL, iPILOT 1.6	*i-PILOT*	1
▲	2397106 ♦	GUIDE-QUICK REFERENCE iP 1.6	*iPILOT*	1
▲	2015800	HANG TAG "CAUTION... TILT HINGE"		1
▲	2317123	MANUAL, INSTALL GUIDE, RTPD BT		1
▲	2297165	MANUAL, DISCLAIMER, DOWNLOAD INFO		1
▲	2317121	MANUAL, RT POWERDRIVE BT		1

▲ Not shown on Parts Diagram.

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

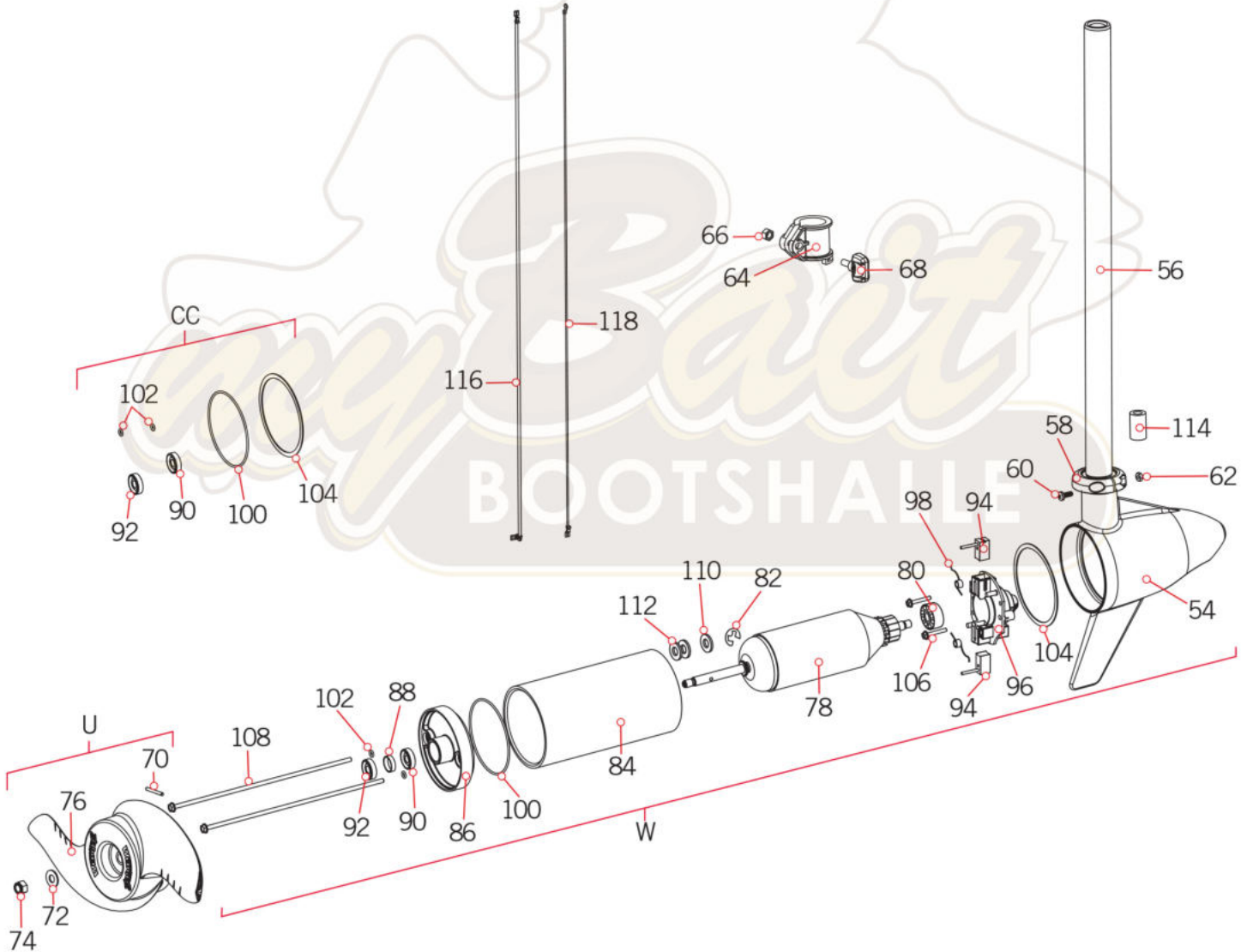
♦ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

RIPTIDE POWERDRIVE MOTOR >

> 12 Volt Motor Parts Diagram

12 volt - 3.625"



PARTS DIAGRAM & PARTS LIST

12 Volt Motor Parts List

Assembly	Part #	Description	Notes	Quantity
W	2097095	MTR ASY 12V 3.62 VS 55#	*SALTWATER*	1
U	1378131	PROP IND 2091160 (WDLS WDGII)		1
CC	2888460	SEAL & O-RING KIT	*3.625*	1
Item	Part #	Description	Notes	Quantity
54	421-336	HSG BRUSH END 3.62 WHITE	*SALTWATER*	1
56	2002000	TUBE COMPOSITE 48" RT/SP-WHT	*SALTWATER* *55LB* *48"	1
	2002001	TUBE COMPOSITE 54" RT/SP-WHT	*55LB* *54"	1
58	2301555	COLLAR-LATCH, PD/AP		1
60	2303434	SCREW-#8-32 X 5/8 MACH PHCR SS		1
62	2303112	NUT-#8-32 NYLOCK SS		1
64	2031522	COLLAR DRIVE (W/INSERT)		1
66	2323104	HEX NUT 1/4 - 20 SS		1
68	2011366	SCREW-COLLAR/NEW KNOB(SS)	*SALTWATER*	1
70	2092600	PIN-DRIVE 1.06" LG (SS)		1
72	2151726	WASHER-5/16 STD (S/S)		1
74	2053101	NUT-PROP,NYLOC (MED) 5/16 SS		1
76	2091160	PROP-WW2 (3 5/8") REAMED		1
78	2-100-117A	ARM ASY 12V 3.62 55#2.88"		1
80	140-010	BALL BEARING		1
82	788-015	RETAINING RING		1
84	2-200-301A	CTR HSG ASY 3.6 MAGNETIZED		1
86	2-400-337A	PLAIN END HSG ASY 3.6 TX/W		1
88	144-049	BEARING - FLANGE (SERVICE ONLY)		1
90	880-003	SEAL		1
92	880-006	SEAL WITH SHIELD		1
94	188-036	BRUSH ASSEMBLY 3.625 55#		2
96	738-036	BRUSH PLATE WITH HOLDER 3.625		1
98	975-040	SPRING-TORSION		2
100	701-081	O-RING		1
102	701-007	O-RING		2
104	337-036	GASKET		1
106	830-007	SCREW, # 8-32		2
108	830-042	THRU BOLT 10-32 X 8.83	*55LB*	2
110	990-067	WASHER - STEEL THRUST		1
112	990-070	WASHER - NYLATRON		2

▲ Not shown on Parts Diagram.

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

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
114	2307317	BEAD-FERRITE, SHORT		1
116	640-107	LEADWIRE RED 10AWG 65-1/2" GPT		1
118	640-008	LEADWIRE BLK 10AWG 63-1/2" GPT		1



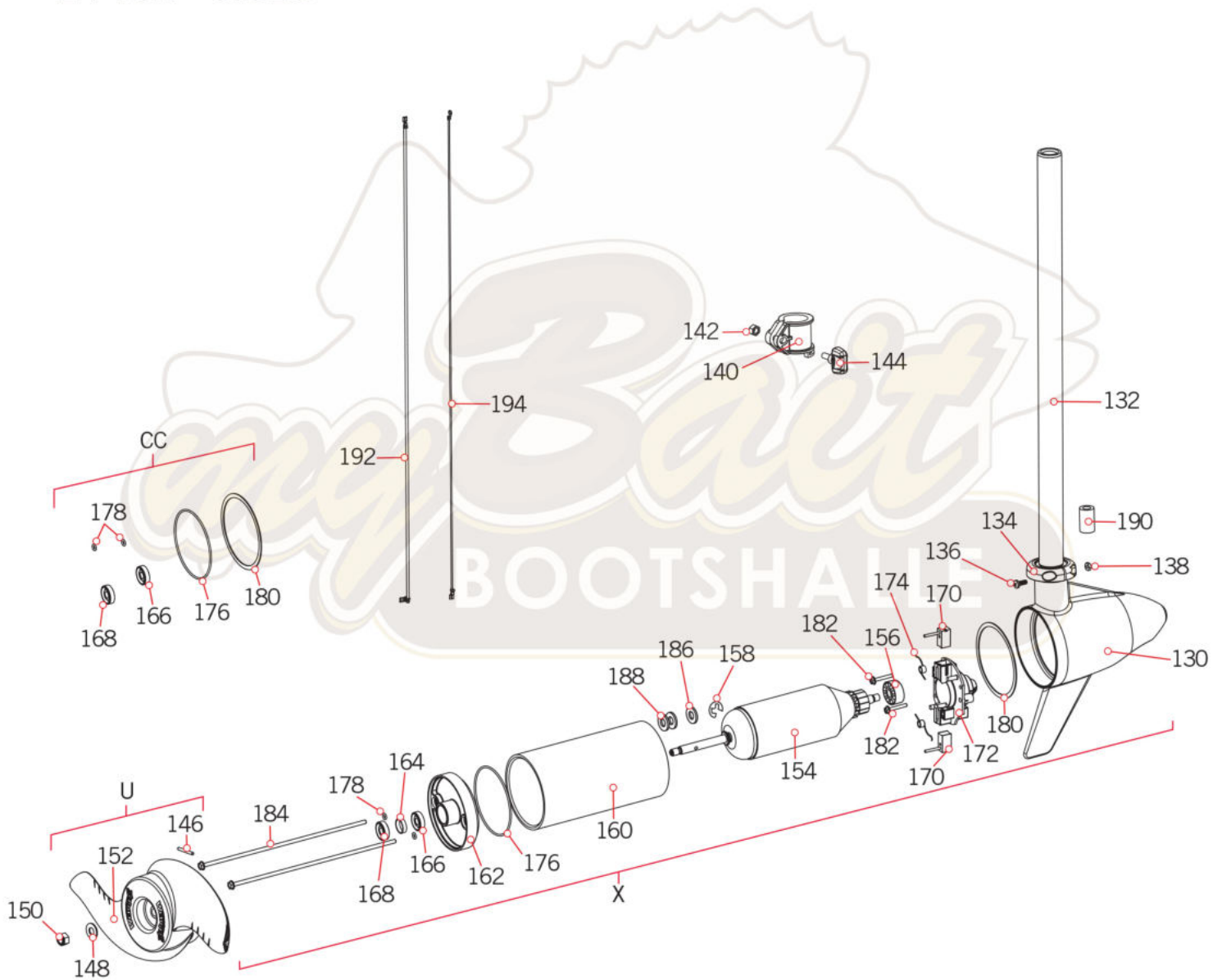
- ▲ Not shown on Parts Diagram.
- ✘ This part is included in an assembly and cannot be ordered individually.
- ◆ Only available with models factory installed with i-Pilot or i-Pilot Link.
- Only available with models factory installed with CoPilot.

PARTS DIAGRAM & PARTS LIST

RIPTIDE POWERDRIVE MOTOR

24 Volt Motor Parts Diagram

24 volt - 3.625"



24 Volt Motor Parts List

Assembly	Part #	Description	Notes	Quantity
X	2096056	MTR ASY 24V 3.62 VS 70#SW	*SALTWATER*	1
U	1378131	PROP IND 2091160 (WDLS WDGII)		1
CC	2888460	SEAL & O-RING KIT	*3.625*	1
Item	Part #	Description	Notes	Quantity
130	421-336	HSG BRUSH END 3.62 WHITE	*SALTWATER*	1
132	2002001	TUBE COMPOSITE 54" RT/SP-WHT	*SALTWATER*	1
134	2301555	COLLAR-LATCH, PD/AP		1
136	2303434	SCREW-#8-32 X 5/8 MACH PHCR SS		1
138	2303112	NUT-#8-32 NYLOCK SS		1
140	2031522	COLLAR DRIVE (W/INSERT)		1
142	2323104	HEX NUT 1/4 - 20 SS		1
144	2011366	SCREW-COLLAR/NEW KNOB(SS)	*SALTWATER*	1
146	2092600	PIN-DRIVE 1.06" LG (SS)		1
148	2151726	WASHER-5/16 STD (S/S)		1
150	2053101	NUT-PROP,NYLOC (MED) 5/16 SS		1
152	2091160	PROP-WW2 (3 5/8") REAMED		1
154	2-100-128	ARM ASSY 24V 3.62 70#		1
156	140-010	BALL BEARING		1
158	788-015	RETAINING RING		1
160	2-200-307	CTR HSG ASM 3.6" SW MAGNETIZED		1
162	2-400-337A	PLAIN END HSG ASY 3.6 TX/W		1
164	144-049	BEARING - FLANGE	*SERVICE ONLY*	1
166	880-003	SEAL		1
168	880-006	SEAL WITH SHIELD		1
170	188-038	BRUSH ASSEMBLY 3.625 70# 6H3		2
172	9-738-038	BRUSH PLATE WITH HOLDER 3.625, #70 LOWER UNIT		1
174	975-042	SPRING-TORSION		2
176	701-081	O-RING		1
178	701-007	O-RING THRU BOLT		2
180	337-036	GASKET		1
182	830-007	SCREW, # 8-32		2
184	830-008	THRU BOLT 10-32 x 9.205 70LB		2
186	990-067	WASHER - STEEL THRUST		1
188	990-070	WASHER - NYLATRON		2
190	2307314	BEAD-FERRITE		1

▲ Not shown on Parts Diagram.

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

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
192	640-106	LEADWIRE RED 10 AWG 64 GPT		1
194	640-008	LEADWIRE BLK 10AWG 63-1/2" GPT		1



▲ Not shown on Parts Diagram.

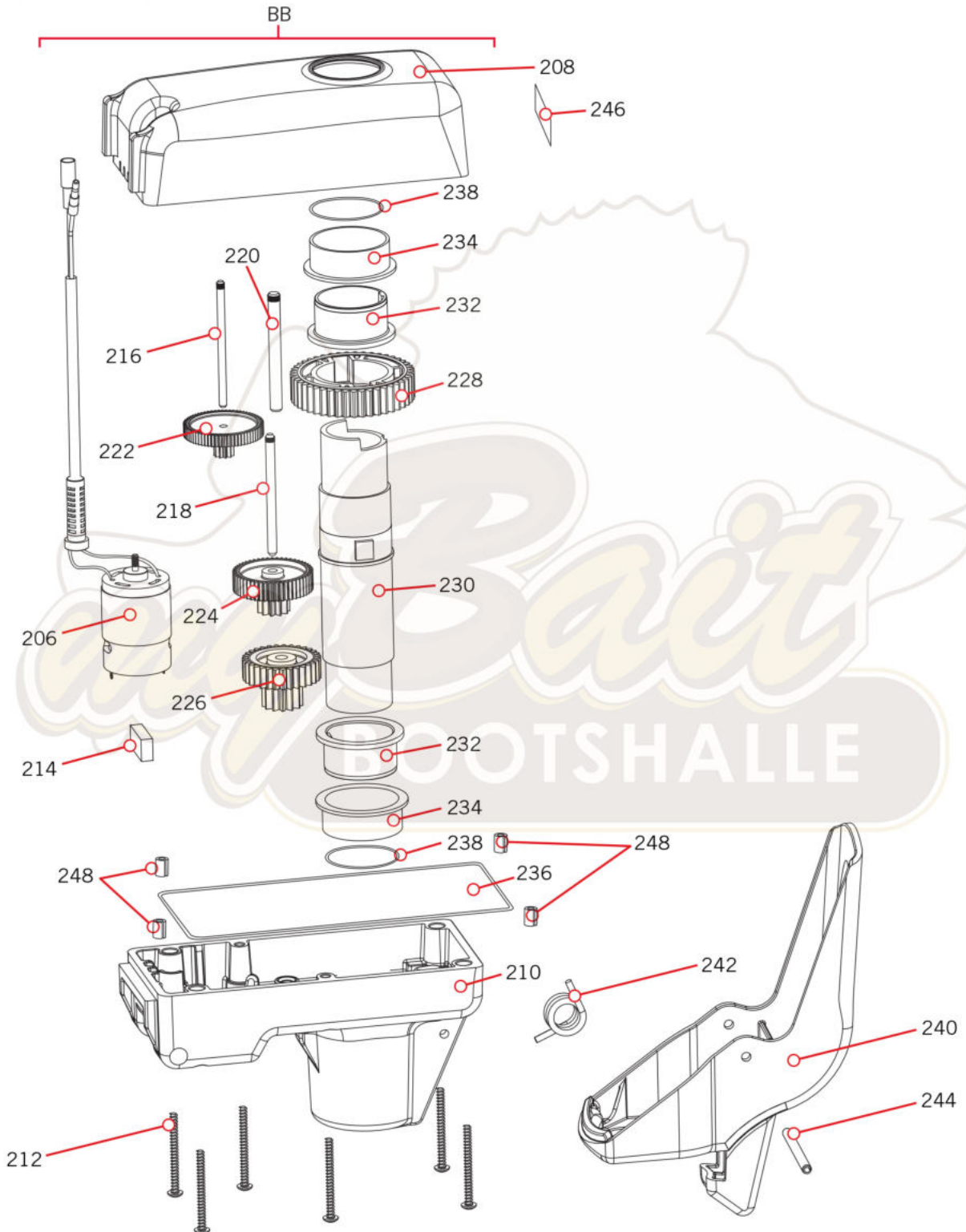
✘ This part is included in an assembly and cannot be ordered individually.

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

RIPTIDE POWERDRIVE STEERING HOUSING

Steering Housing Parts Diagram



PARTS DIAGRAM & PARTS LIST

› Steering Housing Parts List

Assembly	Part #	Description	Notes	Quantity
BB	2771827	DRIVE HOUSING ASSY, RT SP		1
Item	Part #	Description	Notes	Quantity
206	2307050	MOTOR DR.HSG PD/AP 12,24V		1
208	2302543	CASE-UPPER,ALUM, SW - WHITE		1
210	2302562	CASE-LOWER, ALUM, SW - WHITE		1
212	2303408	SCREW-#8-32 TYPE F TORX PH SS		6
214	2308601	BREATHER FILTER, DR.HOUSING		1
216	2302610	SHAFT-GEAR, FIRST CLUSTER		1
218	2302615	SHAFT-GEAR,INTERMED.CLUSTER		1
220	2302620	SHAFT-GEAR, THIRD CLUSTER		1
222	2302245	GEAR & PINION,DR. HSG, STAGE 2		1
224	2302250	GEAR & PINION,DR. HSG, STAGE 3		1
226	2302255	GEAR & PINION,DR. HSG, STAGE 4		1
228	2302260	GEAR-OUTPUT SHAFT,STG 5		1
230	2302010	SHAFT-OUTPUT, DR.HOUSING		1
232	2307304	BUSHING-INNER, UPPER/LOWER		2
234	2307305	BUSHING-OUTER, UPPER/LOWER		2
236	2304603	O-RING-SHAFT SEAL UPPER/LOW		2
238	2304604	O-RING-CASE SEAL		1
240	2307201	LEVER,GRIP GLIDE II		1
242	2302750	SPRING-LATCH,TORSION,PD/AP,S/S		1
244	2302628	PIN-ROLL,3/16 X 2.5" SS		1
246	2305641	DECAL - STOW/DEPLOY; POWERDRIVE		1
248	2302605	PIN-ROLL 5/16" X 1/2"		4

▲ Not shown on Parts Diagram.

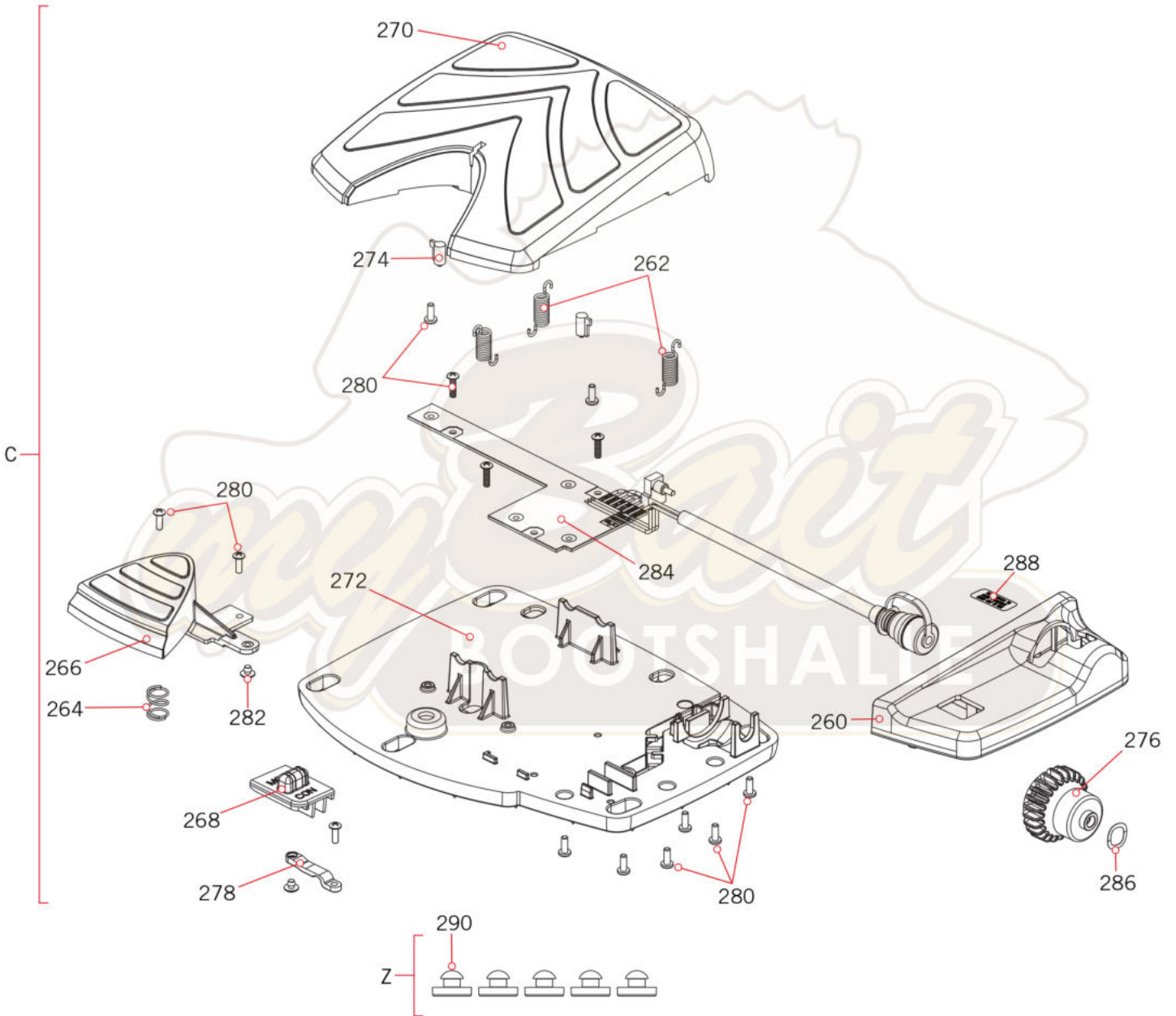
✘ This part is included in an assembly and cannot be ordered individually.

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

RIPTIDE POWERDRIVE FOOT PEDAL

Foot Pedal Parts Diagram



PARTS DIAGRAM & PARTS LIST

Foot Pedal Parts List

Assembly	Part #	Description	Notes	Quantity
C	2994728	FOOT PEDAL ASSEMBLY, PD		1
Z	2994859	BAG ASY-TERROVA/V2,RUB.BUMPERS		1
Item	Part #	Description	Notes	Quantity
260	2300275	COVER-SPEED SELECTOR,PD FP,BLK		1
262	2302730	SPRING-LONG-UPPER PEDAL		3
264	2302732	SPRING-LOWER PEDAL S/S		1
266	2303725	BUTTON-MOMENTARY, PD FP, BLK		1
268	2303730	BUTTON-MOM/CON, PD FP, BLK		1
270	2304406	PEDAL, STRG ROCKER, PD FP, BLK		1
272	2304508	BASE, PEDAL PD		1
274	2305136	BUMPER,STRG RCKR,PD FP,RUBBER		2
276	2307905	WHEEL-SPEED, PD FP, BLK		1
278	2308609	SWITCH LEVER, SINGLE		1
280	2302105	SCREW #6-19 X 3/8 HIGH-LOW SS		14
282	2335130	BUMBER ACTUATOR		2
284	2994053	PCB/CTRL CORD, PD FT PEDAL		1
286	2301750	WASHER, WAVE, PD V3 FP		1
288	2316600	DECAL-ON/OFF SWITCH/PD V2 PED		1
290	2325110	PAD, FOOT PEDAL PD		5

▲ Not shown on Parts Diagram.

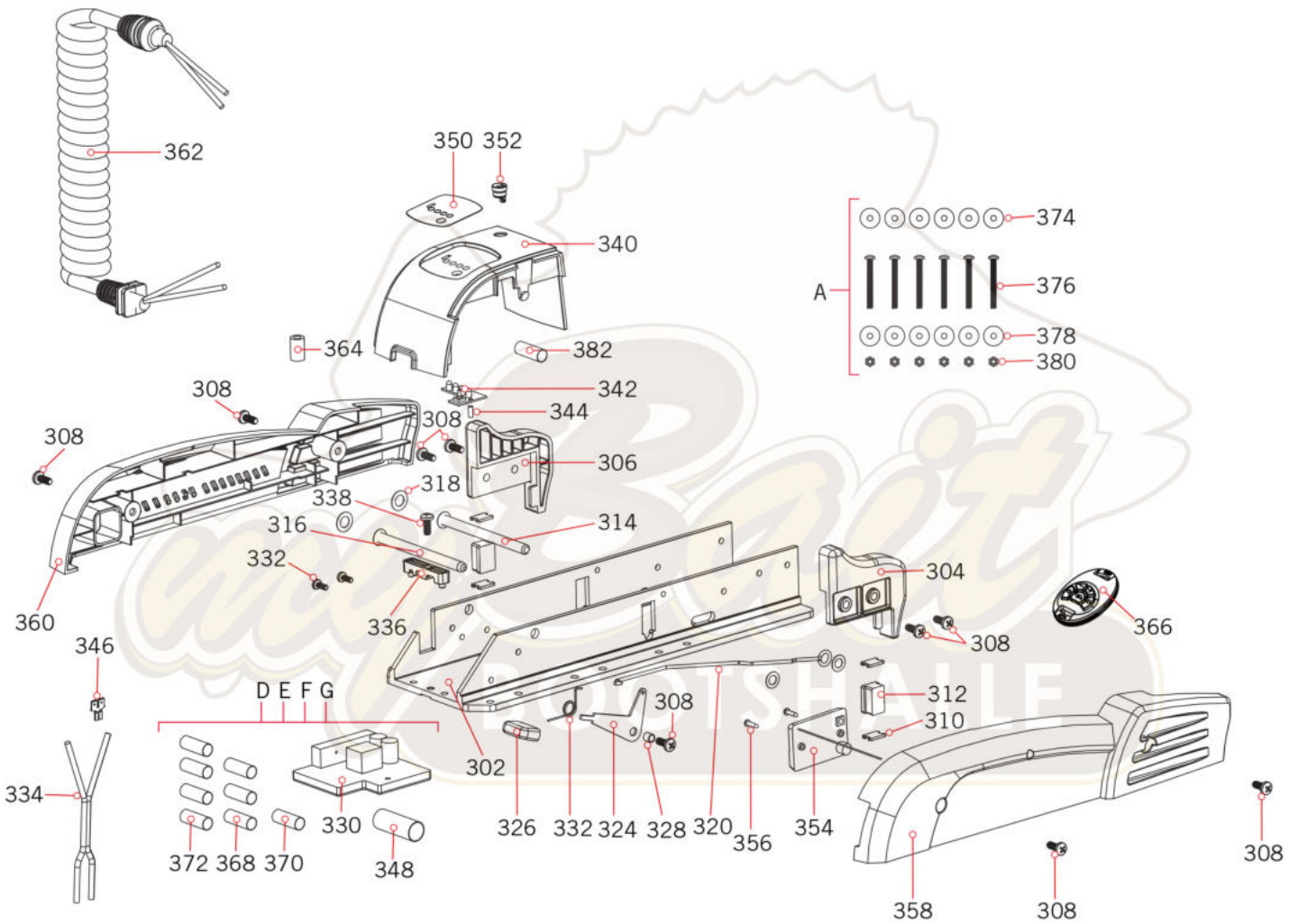
✘ This part is included in an assembly and cannot be ordered individually.

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

RIPTIDE POWERDRIVE MOUNT >

> Mount Parts Diagram



PARTS DIAGRAM & PARTS LIST

Mount Parts List

Assembly	Part #	Description	Notes	Quantity
A	2994864	BAG ASSEMBLY - (BOLT, NUT, WASHERS)		1
D	2884058	CONTROL BOARD-24V V2 W AP W/SHRNK	*AUTOPILOT*	1
E	2884055	CONTROL BRD-12V V2 W/O AP W/SHRNK		1
F	2884057	CONTROL BOARD-12V V2 W/AP W/SHRNK	*AUTOPILOT*	1
G	2884056	CONTROL BRD-24V V2 W/O AP W/SHRNK		1
Item	Part #	Description	Notes	Quantity
302	2301937	EXTRUSION BASE PD V2	*SALTWATER*	1
304	2303932	MOTOR REST-RIGHT, 3 5/8"		1
306	2303937	MOTOR REST-LEFT, 3 5/8"		1
308	2332104	SCREW-1/4-20 X 5/8 S/S	*SALTWATER*	9
310	2335110	PAD-PIVOT SUPPORT(SS)	*SALTWATER*	4
312	2305103	PIVOT PAD,559 FB DUROMETER 90A		2
314	2330510	PIN-LATCH (PD BASE)SS	*SALTWATER*	1
316	2330520	PIN-PIVOT (PD BASE)SS	*SALTWATER*	1
318	2333100	NUT-SPEED (SS)	*SALTWATER*	4
320	2303612	ROD-RELEASE (RT/AP) S/S		1
322	2322700	SPRING-TORSION		1
324	2333705	LEVER-RELEASE S/S	*SALTWATER*	1
326	2300101	RELEASE-KNOB		1
328	2301700	SPACER-RELEASE LEVER-BRASS		1
330	2304067	CONTROL BOARD-24V V2 W/AP	*AUTOPILOT*	1
	2304064	CONTROL BRD-12V V2 W/O AP		1
	2304066	CONTROL BOARD-12V V2 W/AP	*AUTOPILOT*	1
	2304065	CONTROL BRD-24V V2 W/O AP		1
332	2303434	SCREW-#8-32 X 5/8 MACH PHCR SS		3
334	2090651	LEADWIRE,10 GA, PD/GENESIS		1
336	2321310	STRAIN RELIEF		1
338	2323405	SCREW-1/4-20 X 1/2" MCH SS		1
340	2306571	HOUSING-CENTER RT-WHITE	*SALTWATER*	1
342	2074081	BATTERY METER, 24V	*SALTWATER* *70LB*	1
	2074080	BATTERY METER, 12V	*SALTWATER* *55LB*	1
344	2383428	SCREW-#4-24 X 5/8 HI-LO SS		1
346	2320710	TERMINAL-AMP (T-TAB)		1
348	2325401	SHRINK TUBE-3/4 ID X 2" W/ADHS		1
350	2305642	DECAL,BATTERY METER PD V2 SW	*SALTWATER*	1

▲ Not shown on Parts Diagram.

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

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
352	2302935	STRAIN RELIEF-DR. HOUSING		1
354	2994112 ●	TRANS/REC ASY PD V2 SW	*COPILOT ONLY* *SALTWATER*	1
356	2373418 ●	SCREW-#8 X 5/8 PPHSMS S/S	*COPILOT ONLY* *SALTWATER*	2
358	2303982	SIDEPLATE-RIGHT RT-WHITE	*SALTWATER*	1
360	2303987	SIDEPLATE-LEFT RT-WHITE	*SALTWATER*	1
362	2991280	COIL CRD W/STRN RLF, PD 48"/54"		1
364	2307313	BEAD-FERRITE		1
366	2994020 ●	TRASMTR, ASY, PD/AP COPLT	*COPILOT ONLY* *SALTWATER*	1
368	2305410	SHRINK TUBE-.315 OD X 2.25"	*SALTWATER*	3
370	2305415	SHRINK TUBE-.472 ID X 2.25"	*SALTWATER*	1
372	2305403	SHRINK TUBE-.500 IDX1.0" ADHSV	*SALTWATER*	4
374	2263462	SCREW-1/4-20 X 2" S/S PPH ADJT		6
376	2261713	WASHER-1/4 FLAT 18-8 SS		6
378	2263103	NUT-1/4-20 NYLOCK SS		6
380	2301720	WASHER-MOUNTING - RUBBER		6
382	2375400	SHRINK		1



▲ Not shown on Parts Diagram.

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

◆ Only available with models factory installed with i-Pilot or i-Pilot Link.

● Only available with models factory installed with CoPilot.

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.



MK212PC



MK210D



MK110PD

TALON SHALLOW WATER ANCHOR

Introducing the all-new, sleek redesigned Talon. 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.



BLUETOOTH® CONNECTIVITY

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



UP TO 15' DEEP

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



MORE CONTROL OPTIONS

- Control Panel
- Wireless Remote
- Mobile App
- Wireless Foot Switch
- Humminbird® Connectivity
- i-Pilot® & i-Pilot Link™ Remote



MINN KOTA ACCESSORIES

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

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

