RIPTIDE TERROVA BOW-MOUNT TROLLING MOTOR OWNER'S MANUAL

INTRODUCTION

THANK YOU

<u>Thank you for choosing Minn Kota</u>. 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.

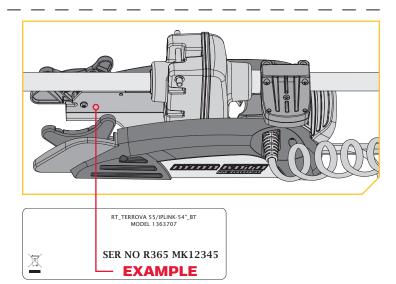
REGISTRATION

Remember to keep your receipt and immediately register your trolling motor.

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.

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



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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.

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.

<u> WARNING</u>

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.

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.

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

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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 is LIMITED TO AN AMOUNT EQUAL TO THE PURCHASER'S ORIGINAL PURCHASE PRICE PAID FOR SUCH PRODUCT.

Minn Kota Service Information

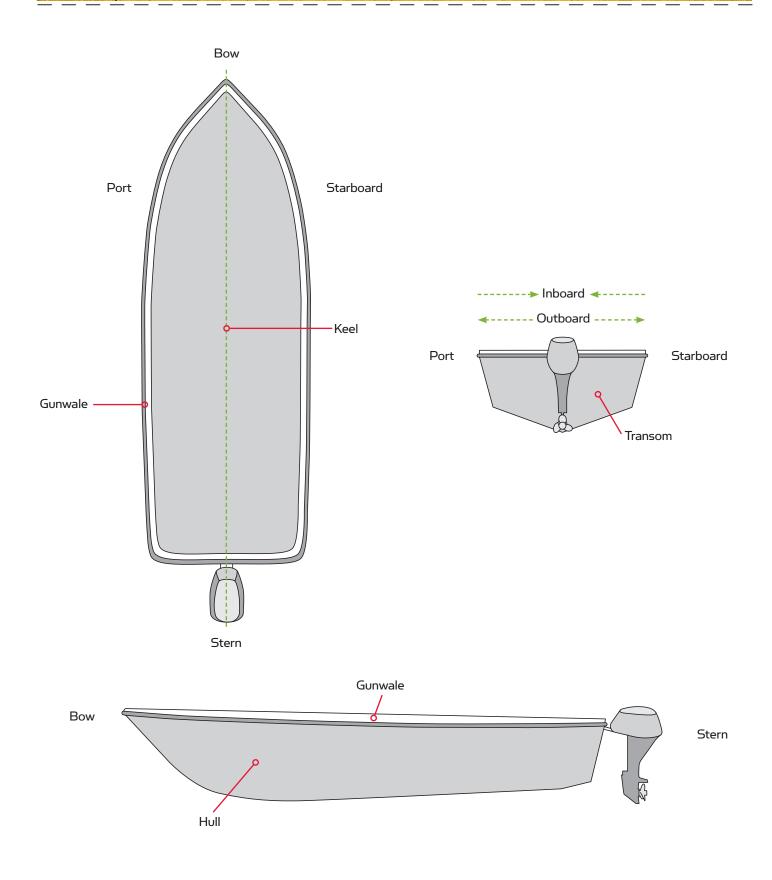
To obtain warranty service in the U.S., the product believed to be defective, and proof of original purchase (including the date of purchase), must be presented to a Minn Kota Authorized Service Center or to Minn Kota's factory service center in Mankato, MN. Any charges incurred for service calls, transportation 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. **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.

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

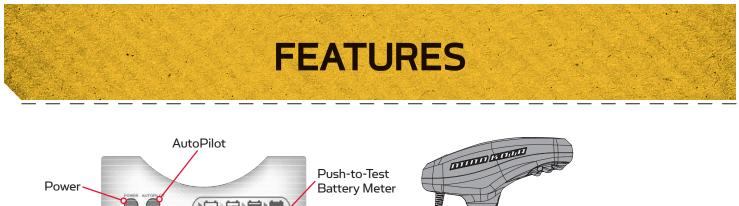
NOTE: THERE ARE NO EXPRESS WARRANTIES OTHER THAN THESE LIMITED WARRANTIES. IN NO EVENT SHALL ANY IMPLIED WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, EXTEND BEYOND THE DURATION OF THE RELEVANT EXPRESS LIMITED WARRANTY. IN NO EVENT SHALL JOME BE LIABLE 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.

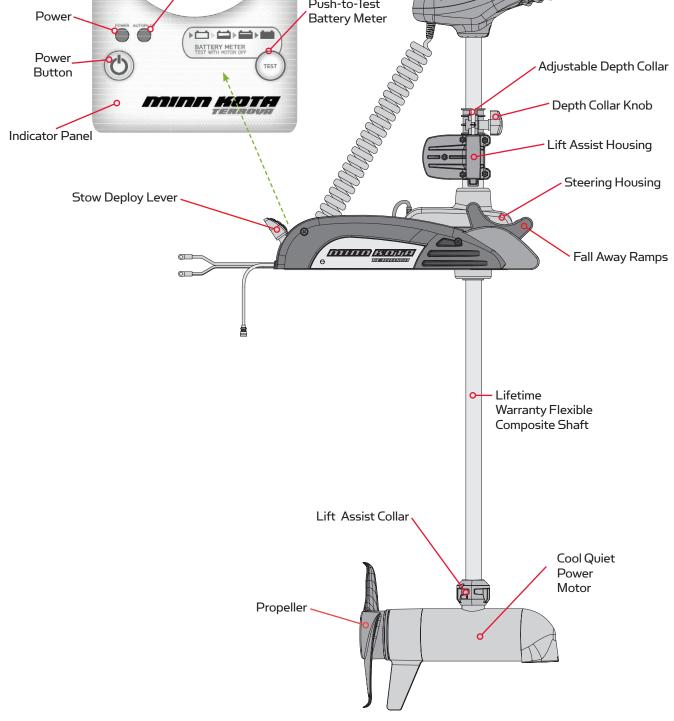
Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and/or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights which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

KNOW YOUR BOAT



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

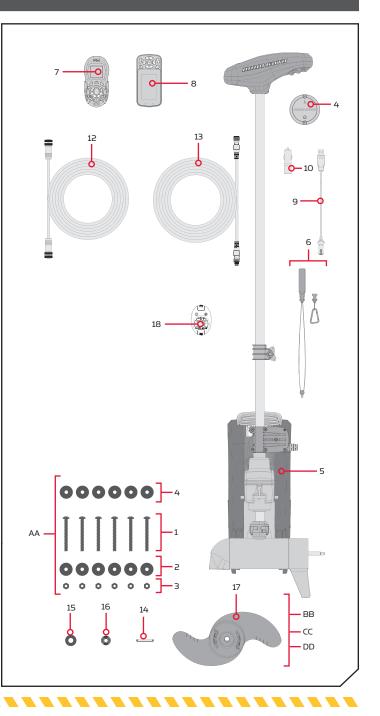
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Your new RiptideTerrova comes with everything you'll need to directly install it to the boat. This motor can be directly mounted to the boat or coupled with a Minn Kota guick release bracket for ease of mounting and removal. For installation with a guick release bracket, refer to the installation instructions provided with the bracket. 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.

INSTALLATION PARTS LIST

ltem / Assembly	Part #	Description	Qty.
AA	2994864	BAG ASSEMBLY - (BOLT, NUT, WASHERS)	1
1	2263462	BOLT-MOUNTING-1/4X2 W/STG	6
2	2261713	WASHER-1/4	6
З	2263103	NUT NYLOK 1/4-20 MTG	6
ų	2301720	WASHER-MOUNTING RUBBER	6
5	×	MOTOR ASSEMBLY	1
6	2390800 ♦	LANYARD, REMOTE W/ CARABEENER	1
7	2994075♦	REMOTE ASY, IPILOT	1
	2397101 ♦	MANUAL, QUICK REF., IPILOT 1.6	1
8	2994076 ♦	REMOTE ASSEMBLY LINK TOUCHSCREEN	1
9	2373241 ♦	CABLE, USB REMOTE CHARGER LINK	1
10	2375901 ♦	ADAPTER, USB DC POWER LINK	1
11	2996400 ♦	HEADING SENSOR ASSEMBLY	1
12	490389-1 ♦	CABLE, ETH (M12-M-M12-F, 30'	1
13	2211415	CABLE-EXTENSION, PD/AP 110"	1
14	2092600	PIN-DRIVE 1.06" LG (SS)	1
14	2262658	PIN-DRIVE 1" X 3/16" S/S	1
15	2151726	WASHER-5/16 STD (S/S)	1
15	2091701	WASHER-PROP (LARGE)	1
16	2198400	ANODES, ZINC, 3.25/3.62" LWR UNT	1
	2091160	PROP-WW2 (3-5/8") REAMED	1
17	2341160	PROP-WW2 (4.5) W/ADP.RING	1
	2331160	PROP-WW2 (4") W/ADP.RING	1
BB	1378131	PROP IND 2091160 WDLS WDG II	1
СС	1378160	PROP KIT 2341160 112# WW2	1
DD	1378132	PROP IND 233160 WDLS WDG II	
18	2994095 •	TRANSMITTER ASY, TRRV CPLT	1
	2327132	INSTALLATION INSTRUCTIONS TERROVA	1
	2397103 🔶	MANUAL, QUICK REF., IPILOT LINK 3.0	1



Only available with models factory installed with CoPilot.
 A Not shown on Parts Diagram.

This part is included in an assem bly and cannot be ordered individually.
 Only available with models factory installed with i-Pilot or i-Pilot Link.

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.

TOOLS AND RESOURCES REQUIRED

- #3 Phillips Screw Driver
- Drill
- 9/32" Drill Bit

• 7/16" Box End Wrench

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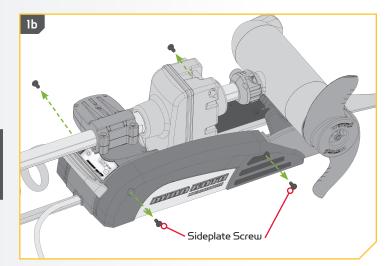
- •
- A second person to help with the installation

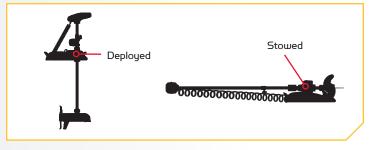
INSTALLATION

Installing the Riptide Terrova

- a. 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
 Phillips screwdriver. Two of these screws will be located on each side of the mount.

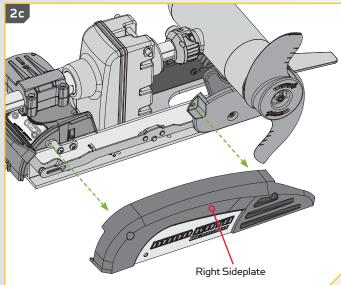
NOTE: This motor weighs approximately 65lbs. We recommend having a second person help with the installation.

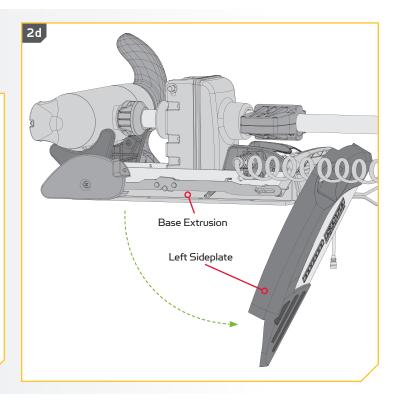




c. Remove the Right Sideplate.

d. Swing the Left Sideplate out and away from the Base Extrusion.



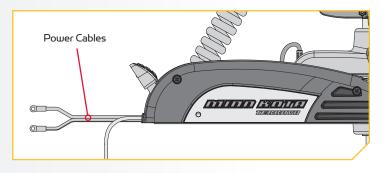


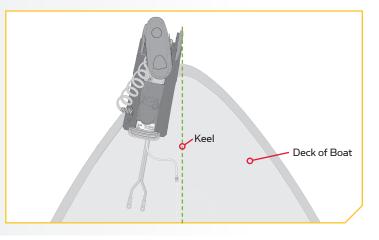
 Make sure that the Power Cables from the battery are disconnected, or that the breaker, if equipped, is "off".

<u> WARNING</u>

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

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.





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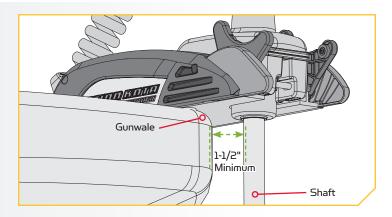
ITEM(S) NEEDED

5

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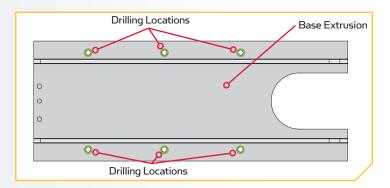
0 #4 x 6

- 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 (Item #4) provided to create a level surface if necessary.



- It is recommended to mark at least 4 of the 6 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.

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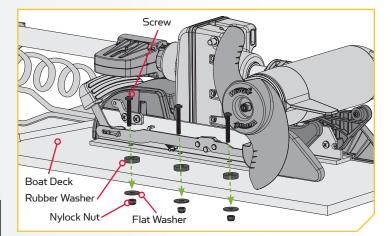
ITEM(S) NEEDED

#1 x 6 💿 #2 x 6 🔹 #3 x 6

🖸 #4 x 6

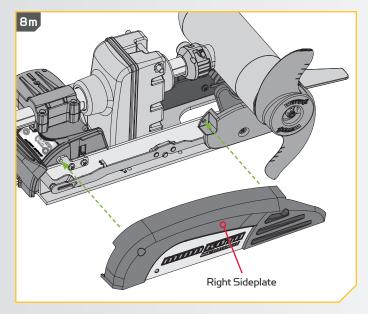
- k. Put a 1/4-20 x 3 1/2" (Item #1) screw in each of the drilled locations. The screw should pass through the Base Extrusion and the boat deck. If the rubber washers (Item #4) are used, they should sit between the Base Extrusion and boat deck. Make sure to secure the motor with screws on each side of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

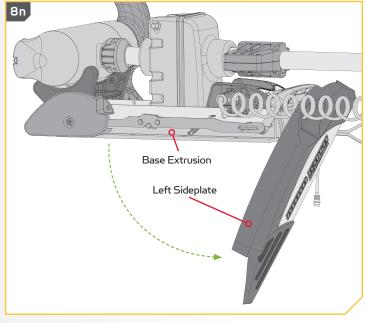
NOTE: To prevent seizing of the stainless steel hardware, do not use high speed installation tools. Wetting the screws or applying an anti-seize may help prevent seizing.



m. Replace the Right Sideplate.

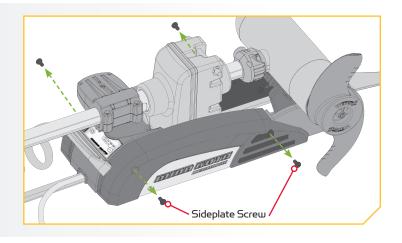
n. Swing the Left Sideplate back into its correct position on the Base Extrusion.





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 9 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.



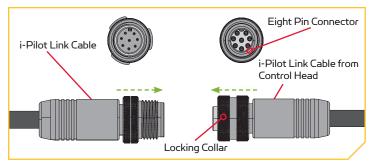
Routing the i-Pilot Link Cable

Your trolling motor will also be pre-installed with either i-Pilot or i-Pilot Link. To learn more about the GPS capabilities available with your i-Pilot or i-Pilot Link navigation system, please refer to the corresponding Owner's Manual.

The i-Pilot Link features require a cable to be connected to an output device. This connection is present on the trolling motor below the Control Head, if installed. The i-Pilot system does not need an external wired connection. If only one connection is present, your motor is equipped with the i-Pilot Link system. If no connections are present, your motor may or may not be installed with i-Pilot. Please follow the Minn Kota recommendations on routing the cables to optimize mobility and maximize functionality. The routing will be the same regardless of the number of cables present. Use the following instructions to properly route cables.

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.

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 and Motor Wiring Diagram sections of this manual for correct rigging instructions.

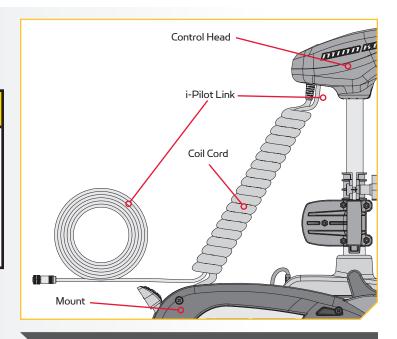


- a. Place the motor in the deployed position.
- b. Locate the i-Pilot Link cable, at the base of the Control Head.

<u> CAUTION</u>

Not following the recommended wire routing for the i-Pilot Link cable, 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.

> c. The i-Pilot Link cable should be fed all the way through the Coil Cord. It should exit the Coil Cord at the bottom of the Coil Cord, where it connects to the Mount.



NOTE: After the i-Pilot Link Cable exits the Coil Cord, it should be routed through an established routing system on the boat, in an area with minimal interference. Inspect the selected route carefully to ensure that there are no sharp edges, obstacles, or obstructions that may damage the cables.

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BATTERY & WIRING INSTALLATION

BOAT RIGGING & PRODUCT INSTALLATION

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

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.

<u> CAUTION</u>

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:

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- 1. No more than 3 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.

Mater Thrust / Madel	Mary Array Darray	Circuit Duralian		Wire	Extension L	ength	
Motor Thrust / Model	tor Thrust / Model Max Amp Draw Circuit Breaker		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	6 AWG	4 AWG	4 AWG	2 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	2 AWG	2 AWG	2 AWG	2 AWG	2 AWG
E-Drive	40	50 Amp @ 48 VDC	10 AWG	10 AWG	10 AWG	10 AWG	10 AWG

NOTE: 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.

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.

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.

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.

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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.

NOTE: 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 "O").
- 2. Connect positive (+) red lead to positive (+) battery terminal.
- 3. Connect negative () black lead to negative () battery terminal.
- 4. For safety reasons do not switch the motor on until the propeller is in the water.

<u> WARNING</u>

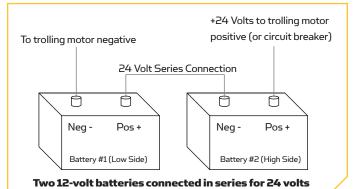
For safety reasons do not switch the motor on until the propeller is in the water. If installing a leadwire plug, observe proper polarity and follow instructions in your boat owner's manual. See wiring diagram on following pages.

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.

- Make sure that the motor is switched off (speed selector on "O").
- 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.
- Connect negative () black motor lead to negative () terminal of battery 1.



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<u> WARNING</u>

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.

<u> WARNING</u>

- 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.

36 Volt Systems

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

- 1. Make sure that the motor is switched off (speed selector on "O").
- Connect a connector cable to the positive (+) terminal of battery 1 and to the negative (-) terminal of battery 2 and another connector cable from the positive (+) terminal of battery 2 to the negative (-) terminal of battery of battery 3.
- +36 Volts to trolling motor To trolling motor negative positive (or circuit breaker) 24 Volt Series Connection 36 Volt Series Connection Ċ n Þ Ó Ó Ċ Neg -Pos + Neg -Pos + Neg -Pos + Battery #1 (Low Side) Battery #2 (Middle) Battery #3 (High Side) Three 12-volt batteries connected in series for 36 volts
- 3. Connect positive (+) red motor lead to positive (+) terminal on battery 3.
- 4. Connect negative () black motor lead to negative () terminal of battery 1.

<u> WARNING</u>

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.

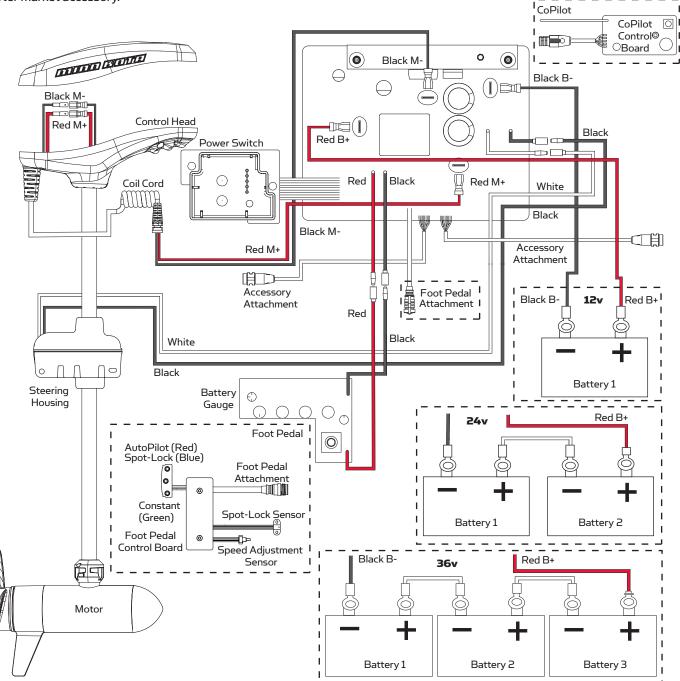
- For safety reasons, disconnect the motor from the battery or batteries when the motor is not in use or while the battery/ batteries are being charged.
- Improper wiring of 24/36 volt systems could cause battery explosion.
- Keep leadwire wing nut connections tight and solid to battery terminals.

• Locate battery in a ventilated compartment.

MOTOR WIRING DIAGRAM

RIPTIDE TERROVA

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

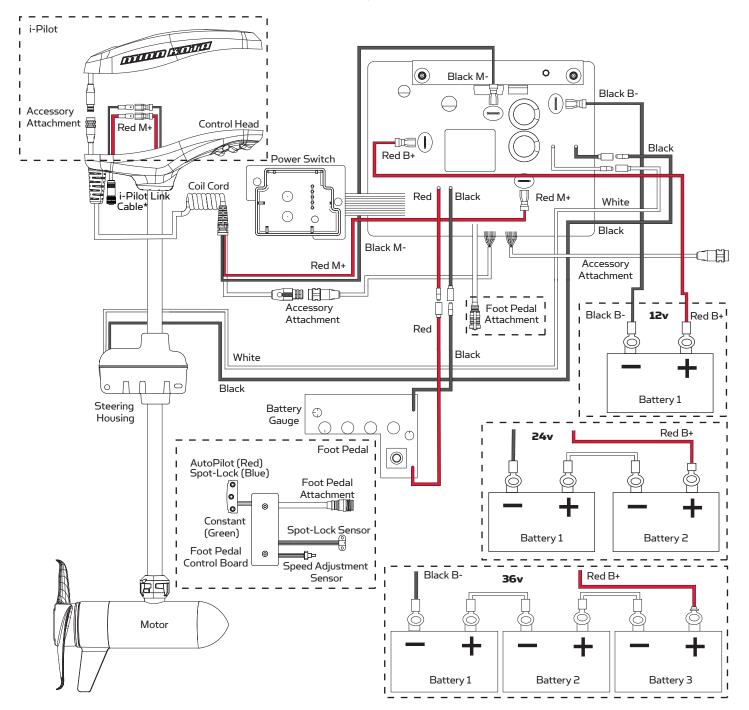


NOTE: This is a multi-voltage diagram. Double-check your motor's voltage for proper connections. Over-Current Protection Devices are not shown in this illustration.

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RIPTIDE TERROVA WITH i-PILOT OR i-PILOT LINK

The following Motor Wiring Diagram applies to all Riptide Terrova models that come factory installed with either i-Pilot or i-Pilot Link. A Foot Pedal can be installed as an after market accessory.

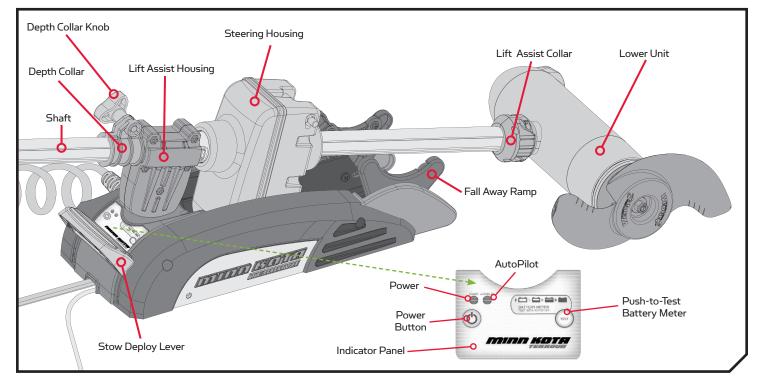


NOTE: This is a multi-voltage diagram. Double-check your motor's voltage for proper connections. Over-Current Protection Devices are not shown in this illustration.

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 Lift Assist 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.



When the motor is being transported, it is important to place the Depth Collar snug against the Lift Assist 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.

Fall Away Ramps

The Fall Away Ramps hold the Lower Unit when the Motor is stowed and rotate to release the Lower Unit as the unit is being deployed. When the Stow Deploy Lever is pressed it unlocks the position of the Fall Away Ramps and the Ramps rotate to guide the Lower Unit back onto the mount when the motor is stowed.

WARNING

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

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Power Button

The Power button () is located on the Indicator Panel on the Mount. The Terrova must be manually powered "on" and "off". When the Motor is powered "on", the Power Indicator will be illuminated green when the Motor is powered "off", the Power Indicator will not be illuminated ".

<u> CAUTION</u>

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.

AutoPilot

The AutoPilot Indicator is located on the Indicator Panel on the Mount. It is illuminated green when AutoPilot is engaged and it is not illuminated when AutoPilot is not engaged.

Stow Deploy Lever

The Stow Deploy Lever is located at the top of the mount. The Stow Deploy Lever functions to unlatch the Fall Away Ramps which rotate to guide the Lower Unit. The Stow Deploy Lever is actuated by pressing it down.

STOWING AND DEPLOYING THE MOTOR

To Deploy the Motor

Loosen the Depth Collar, then push firmly down on the Stow Deploy Lever to release the Lift Assist Collar and slide the motor forward, out from the Fall Away 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 Lift Assist Housing and tighten.

To Stow the Motor

Loosen the Depth Collar and depress the Stow Deploy Lever. Raise the motor by pulling up on the Shaft or Control Head. Pull the motor toward the stern until it rests securely on the Fall Away Ramp and the Fall Away Ramps captures the Lower Unit. Slide the Depth Collar down and secure it against the top of the Lift Assist Housing to secure the motor in place and prevent accidental deployment.

<u> WARNING</u>

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

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.

Practice proper ergonomics when stowing and deploying the motor to prevent injury.

<u> WARNING</u>

Moving parts can cut or crush. The Lift Assist Housing can come off of Steering Housing and create a crushing hazard. Keep fingers clear of all moving parts.

🔥 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.

PUSH-TO-TEST BATTERY METER

This motor is equipped with a Pust-to-Test Battery Meter. The LED 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.



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.

1

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

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.

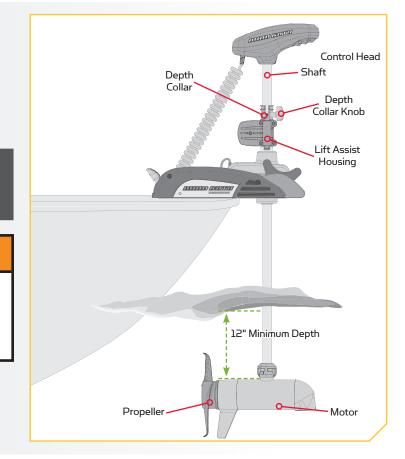
- Bepth Collar Knob Lift Assist Housing
- c. Raise or lower the motor to the desired depth.
- d. Turn the motor Control Head to the desired position.
- e. Slide the Depth Collar against the Steering Housing and tighten the Depth Collar Knob to secure the motor in place.

NOTE: 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.

🚹 WARNING

The Lift Assist Housing contains a spring that may break from excessive wear. Watch for sharp points that can be a puncture hazard. Always use care when handling the motor.

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Adjusting the Lower Unit for a Secure Stow

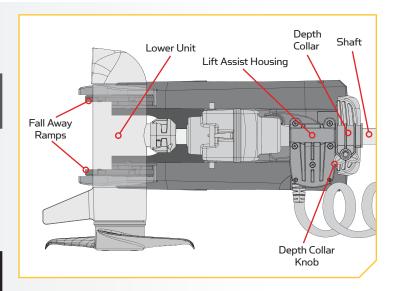
When the Motor is stowed, the Lower Unit should rest on the Fall Away Ramps, a part of the Motor Mount. It is recommended to secure the motor using the following instructions to avoid damage to the motor and shaft from vibrations during transport.

a. Before transporting the boat over water or land, stow the motor to determine where the Lower Unit rests on the Fall Away Ramps.

NOTE: The correct positioning of the Lower Unit will place it directly on the Fall Away Ramps.

- b. If the Lower Unit does not sit on the Fall Away Ramps, deploy the motor, and stow it again.
- c. Be sure to press the Stow Deploy Lever and adjust the Motor to allow it to rest on the Fall Away Ramps.

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.



NOTE: 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.

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<u> WARNING</u>

When the motor is being transported, it is important to place the Depth Collar snug against the Lift Assist 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.

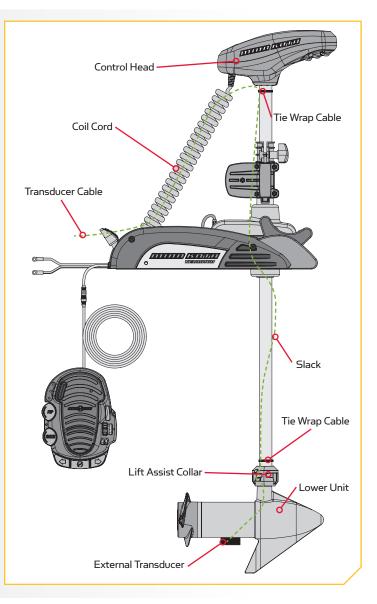
Installing an External Transducer

Your trolling motor may be pre-installed with a Universal Sonar transducer system. For compatibility and more information on Universal Sonar. An external transducer is not included with your trolling motor. An external transducer can be installed onto the motor.

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

<u> CAUTION</u>

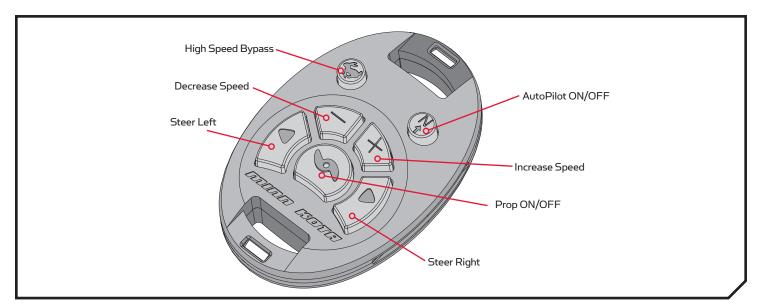
Not following the recommended wire routing for the Universal Sonar may cause damage to the product and void your product warranty. Take care to test the length and placement of cable to be sure that there is enough slack where needed and that cables are free of being entangled in moving parts. Routing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





CONTROLLING THE MOTOR WITH COPILOT

Review the complete CoPilot section of this manual to become familiar with this feature.



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 above the Prop ON/OFF button 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 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.

Autopilot On/Off

The AutoPilot button is located on the top right side of the remote. It functions to turn AutoPilot on or off. The button does not need to be held down. If the motor does not have AutoPilot, the AUTOPILOT ON/OFF button will be non-functional.

High Speed Bypass

The High Speed Bypass button is located on the top left side of the remote. It toggles the speed between the current speed setting and the maximum speed setting (level 10). Pressing the button sets the motor at speed 10 instantly; pressing the button again sets the motor speed back to the previous speed setting.

COPILOT GENERAL OPERATION

Operating with the Remote and Foot Pedal

- The CoPilot and foot pedal can be used for motor control simultaneously.
- The foot pedal and CoPilot remote operate on a first-in-line priority basis. If a button is pressed and held down on the foot pedal and a button with the same function is then pressed on the remote, the foot pedal will have priority. The remote would have priority if the remote was first to send the command.
- Multiple functions can be performed at the same time. For instance, AutoPilot can be turned on or off from the remote while speed is being adjusted on the foot pedal. If the momentary button is being held down on the corded foot pedal, steering adjustments can be made at the same time from the remote.
- When the momentary button is being held down on the foot pedal, speed increase/decrease and prop on/off will not function on the remote.
- When the foot pedal has priority over the remote and remote commands are received, the receiver will emit an audible chirp. This will indicate that the remote is functioning properly however the foot pedal is taking priority.

Operating without the Foot Pedal

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

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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
Model	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.	

NOTE: When the Foot Pedal 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 Веер	Pressing the Increase Speed or Decrease Speed button	
1 Веер	Pressing the Prop ON/OFF button to turn the Prop on	
2 Beeps	Pressing the Prop ON/OFF button to turn the Prop off	
Single tick every 1.5 seconds	When the Prop is active including when Speed is set to O	Mode 3
1 Веер	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	Foot pedal speed control 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		
l 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 is moved to momentary, the power up audio will be heard	All

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ADDING/REMOVING REMOTES

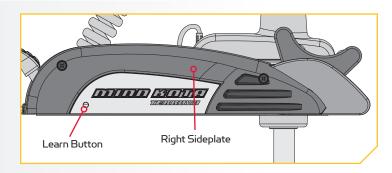
The CoPilot remote came from the factory already "Learned" by the CoPilot receiver. Any additional remotes must be "Learned" by the receiver. The receiver stores all "Learned" information even when the motor is disconnected from a power source.

To "Learn" Remotes

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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.

- 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.



c. Press any button on the remote.

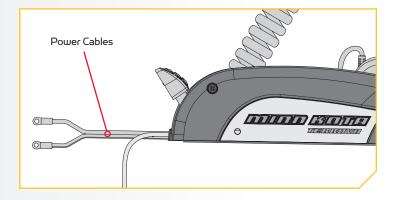
d. The receiver will beep 4 times confirming that it has "Learned" the remote successfully.

NOTE: "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

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



COPILOT

- 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 is "Learned".

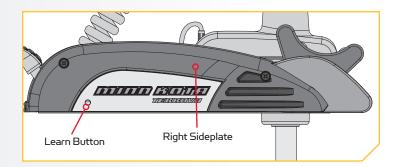
REPLACING THE BATTERY

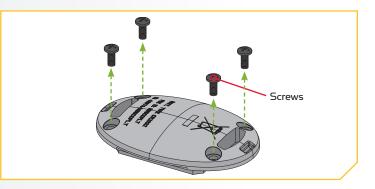
 Temporarily ground yourself by touching a grounded metal object in order to discharge any static electricity in your body.

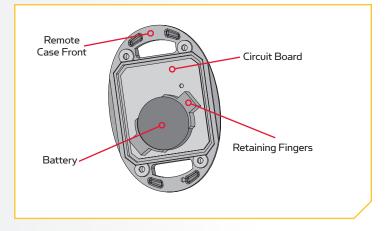
NOTE: The replacement battery must be a model CR2032 coin cell type. It is strongly recommended that a name brand battery is used.

- b. Remove the four screws on the bottom of the remote case.
- c. Separate the case halves to access the circuit board.
- 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.

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



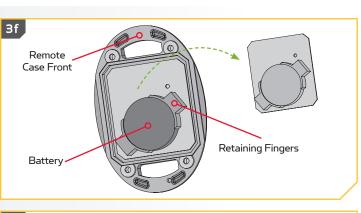


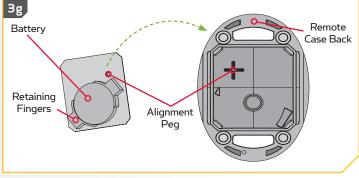


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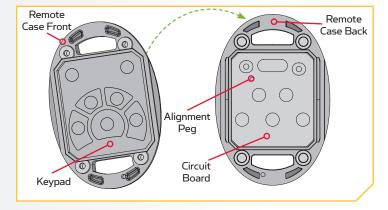
- d. Reassemble the remote. Begin by removing the board from the front of the remote case. This is the same board that holds the battery. Leave the Keypad in place on the front of the remote.
 - e. Note that the alignment peg in the back of remote case must line up with the corresponding alignment hole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

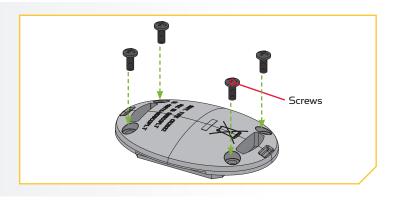




- f. Position the back of the remote case so that the Alignment peg is towards the top when the remote is laying on a flat surface. Position the front of the remote case so the keypad and the curved buttons are towards the bottom when the remote is laying on a flat surface.
 - g. Keep the back of the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

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SERVICE & MAINTENANCE

PROPELLER REPLACEMENT

TOOLS AND RESOURCES REQUIRED

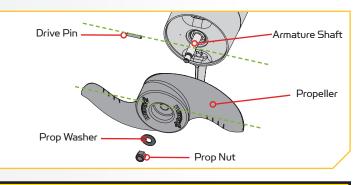
• 9/16" Open End Wrench

Flat Blade Screwdriver

INSTALLATION

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

NOTE: 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.

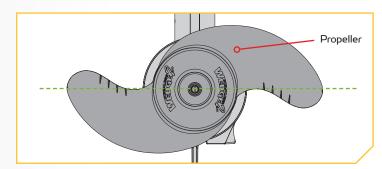


🕂 CAUTION

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

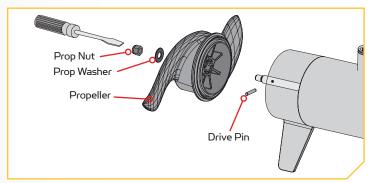
d. Turn the old prop to horizontal and pull it straight off. If drive pin falls out, push it back in.

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.



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

Do not over tighten as this can damage the prop.



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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 from 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 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 weed free operation with very high efficiency. To maintain this top performance, the leading edge of the blades must be kept smooth. If they are rough or nicked from use, restore to smooth by sanding with fine sandpaper.

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 fishfinder:
 - You may, in some applications, experience interference in your depth finder display. We recommend that you use a seperate deep cycle marine battery for your trolling motor and that you power the depth finder from the starting/cranking battery.

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 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 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 Momentary/Constant Switch is in the CON position.	The foot pedal 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 "O".	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.

COMPLIANCE STATEMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT

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

WEEE DIRECTIVE

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

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

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



DISPOSAL

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

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



This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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 online.

i-Pilot Link Equipped Motors

For regulatory information on motors that come factory installed with i-Pilot Link, please refer to the i-Pilot Link Owner's Manual online.

Model: CoPilot

This is only applicable to motors factory installed with CoPilot

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

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.

NOTE: 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

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

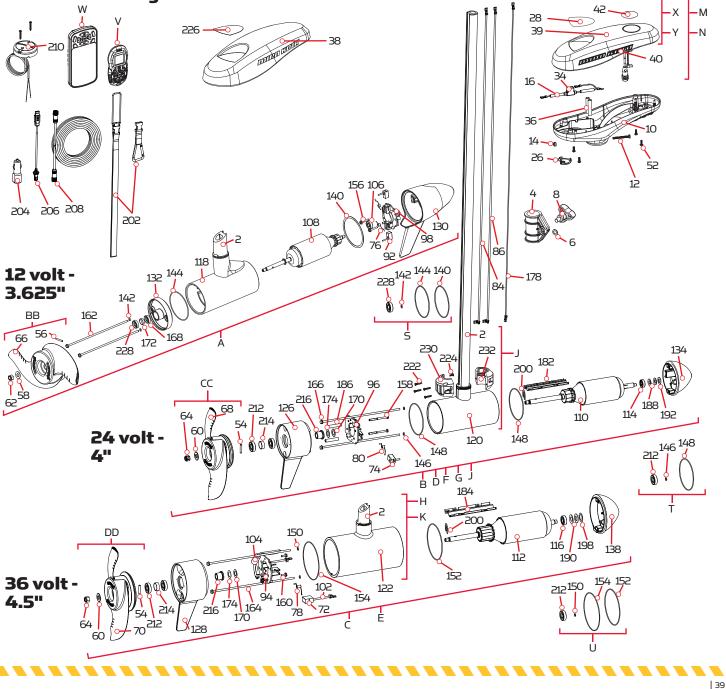
RIPTIDE TERROVA

55/80/112 LBS THRUST - 12/24/36 VOLT - 54"/60"/72" 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 TERROVA MOTOR

Motor Parts Diagram



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Motor Parts List

A 2779034 MTR/TUBE ASM 55# 54" RT TRV BT *MOTOR & TUBE* *54* *3.625* B 2777034 MTR/TUBE ASM 80# 54" TRV BT *MOTOR & TUBE* *54* *4* C 2777083 MTR/TUBE 112# 60" RT TRV BT *MOTOR & TUBE* *60* *4.5* D 2777036 MTR/TUBE 112# 60" RT TRV BT *MOTOR & TUBE* *60* *4.5* E 2777036 MTR/TUBE 112# 72" RT TRV BT *MOTOR & TUBE* *60* *4.5* F 2777035 MTR/TUBE 112# 72" RT TRV BT *MOTOR & TUBE* *60* *4.5* G 2777037 MTR/TUBE 85M 80# 60" RT TRV-M BT *MOTOR & TUBE* *54* *4.5* H 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *54* *4.5* G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *54* *4.5* H 277734 CTR HSG.CB.112#,SW, UP TO 60" *TUBE* *14.5* J 2777398 CTR HSG.CB.312#,SW, UP TO 60" *TUBE* *4.5* M 27774051 ◆ MOTOR KIT, IPLT 1.6 RT TERROVA *1-PILOT RECEIVER* M 27774051 ◆ MOTOR KIT, IPLT 1.6 RT TERROVA *1-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625* *55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 </th <th></th>	
C 2777083 MTR/TUBE 112# 60" RT TRV BT *MOTOR & TUBE* *60* *4.5* D 2777036 MTR/TUBE ASM 80# 60" RT TRV BT *MOTOR & TUBE* *60* *4.5* E 2777036 MTR/TUBE I12# 72" RT TRV BT *MOTOR & TUBE* *72* *4.5* F 2777035 MTR/TUBE ASM 80# 54" TRV-M BT *MOTOR & TUBE* *72* *4.5* G 2777037 MTR/TUBE ASM 80# 54" TRV-M BT *MOTOR & TUBE* *54* *4* *EUROPE ONLY* G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *60* *4* *EUROPE ONLY* H 2777343 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* J 2777398 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *14.5* M 2777404 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *14.5* M 2777404 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *14.5* M 27774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *1-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *1-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625* *55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132	1
D 2777036 MTR/TUBE ASM 80# 60" RT TRV BT *MOTOR & TUBE* *60* *4* E 2777084 MTR/TUBE 112# 72" RT TRV BT *MOTOR & TUBE* *72* *4.5* F 2777035 MTR/TUBE ASM 80# 54" TRV-M BT *MOTOR & TUBE* *54* *4* *EUROPE ONLY* G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *60* *4* *EUROPE ONLY* H 277734 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* J 2777398 CTR HSG,CB,80#,SW, UP TO 60" *TUBE* *4.5* K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *4.5* M 2774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *1-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *1-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625* *55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4* 80LB THRUST*	1
E 2777084 MTR/TUBE 112# 72" RT TRV BT *MOTOR & TUBE* *72* *4.5* F 2777035 MTR/TUBE ASM 80# 54" TRV-M BT *MOTOR & TUBE* *54* *4* *EUROPE ONLY* G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *60* *4* *EUROPE ONLY* H 2777343 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* J 2777398 CTR HSG,CB,20#,SW, UP TO 60" *TUBE* *4.5* K 2777344 CTR HSG,CB,112#,SW, 0P TO 60" *TUBE* *4.5* M 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *4.5* M 27774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *1-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *1-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625* *55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4*80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
F 2777035 MTR/TUBE ASM 80# 54" TRV-M BT *MOTOR & TUBE* *54* *44* *EUROPE ONLY* G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *60* *4* *EUROPE ONLY* H 2777343 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* J 2777398 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* K 2777344 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* M 27774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *I-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *I-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625* *55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4* *80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
G 2777037 MTR/TUBE 80# 60" RT TRV-M BT *MOTOR & TUBE* *60* *↓* *EUROPE ONLY* H 2777343 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *↓.5* J 2777398 CTR HSG,CB,80#,SW, UP TO 60" *TUBE* *↓.5* K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *↓.5* M 2774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *I-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *I-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625**55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4**80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
H 2777343 CTR HSG,CB,112#,SW, UP TO 60" *TUBE* *4.5* J 2777398 CTR HSG,CB,80#,SW, UP TO 60" *TUBE* *4.* K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE* *4.5* M 27774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *1-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *1-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625**55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5**112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4*80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST *3.625*	1
J 2777398 CTR HSG,CB,80#,SW, UP TO 60" *TUBE * ¹ / ₄ * K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE * ¹ / ₄ .5* M 2774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *I-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *I-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625**55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5**112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *¼* *80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
K 2777344 CTR HSG,CB,112#,SW, 72" TUBE *TUBE * * 4.5* Image: Comparison of the state	1
M 2774051 ◆ MOTOR KIT, iPLT 1.6 RT TERROVA *I-PILOT RECEIVER* N 2774068 ◆ MOTOR KIT, iPLT 3.0 RT TERROVA *I-PILOT LINK RECEIVER* BB 1378131 PROP IND 2091160 WDLS WDG II *3.625**55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5**112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *¼* *80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
N 2774068 ◆ MOTOR KIT, IPLT 3.0 RT TERROVA *I-PILOT LINK RECEIVER* Image: Constraint of the state o	1
BB 1378131 PROP IND 2091160 WDLS WDG II *3.625**55LB THRUST* CC 1378160 PROP KIT 2341160 112# WW2 *4.5**112LB THRUST* DD 1378132 PROP IND 233160 WDLS WDG II *4**80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST* 3.625*	1
CC 1378160 PROP KIT 2341160 112# WW2 *4.5* *112LB THRUST* DD 1378132 PROP IND 233160 WDL5 WDG II *4* *80LB THRUST* S 2888460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
DD 1378132 PROP IND 233160 WDLS WDG II *\4* *80LB THRUST* S 2888\460 SEAL & O-RING KIT *55LB THRUST * 3.625*	1
S 2888460 SEAL & O-RING KIT *55LB THRUST**3.625*	1
	1
T 2889460 SEAL & O-RING KIT *80LB THRUST* *4*	1
	1
U 2881450 SEAL & O-RING KIT *112LB THRUST* *4.5*	1
V 2994075 ♦ REMOTE ASSY, IPILOT 1.6	1
W 2994076 REMOTE ASSY, IPILOT LINK *LINK ONLY*	1
X 2770207 ♦ COVER KIT, iPLT 1.6 RT TERROVA *I-PILOT COVER & DECALS ONLY*	1
Y 2770212 ♦ COVER KIT, iPLT 3.0 RT TERROVA *I-PILOT LINK COVER & DECALS ONLY*	1
Item Part# Description Q	vantity
★ TUBE-COMP,WHT,72",1/4" WALL,T2	1
★ TUBE-COMP,WHT,54",1/4" WALL,T2	1
2 X TUBE-COMP,WHT,60",1/4" WALL,T2	1
★ TUBE-COMP,WHT,54",1/4", "M",T2	1
★ TUBE-COMP,WHT,60",1/4", "M",T2	1
▲ ★ SEAL,BUNG LOWER	1
▲ SEAL,BUNG UPPER,FW	1
4 2321505 DEPTH COLLAR, LIFT ASSIST	1
6 2321702 WASHER-FLAT .375 NYLON	1
8 2260906 KNOB-SOFT GRIP,HG/DR,SS	1
10 2292501 CONTROL BOX, SW ST	1
12 2332102 SCREW-#10-24 X 1-3/4 PPH SS	1
14 2333101 NUT-HEX #10-24 UNC-2B NYL SS	1

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

- ▲ Not shown on Parts Diagram.
- ♦ May only be available with i-Pilot or i-Pilot Link.

	1		
ltem	Part #	Description	Quantity
A	2256300	TIE WRAP-5.5" BLACK	2
26	2224705	INSERT-PLUG, WHT, I PILOT*SMALL HOLE* *i-PILOT*	1
LO	2224703	INSERT-PLUG, PD/AP WHITE *NO HOLE*	1
28	×	DECAL-GENERIC, PUSH BTN TOP SW	1
A	9950433	TIE WRAP-4" BLACK	2
36	2305402	SHRINK TUBE374 OD X 2.25"	2
38	2290206	COVER,CTRL BOX, SW *AUTOPILOT*	1
39	2292501	CONTROL BOX, SW ST	1
40	2325613	DECAL,CTRL BOX SIDE BT SW	2
42	×	DECAL, DOMED IPILOT SW	1
42	*	DECAL, DOMED, IPILOT LINK SW	
52	2372100	SCREW-#8-18 X 5/8 THD (SS)	7
54	2092600	PIN-DRIVE 1.06" LG (SS) *80LB THRUST* *4* *112LB THRUST* *4.5*	1
56	2262658	PIN-DRIVE 1" X 3/16" S/S *55LB THRUST* *3.625*	1
58	2151726	WASHER-5/16 STD (S/S) *55LB THRUST* *3.625*	1
60	2091701	WASHER-PROP (LARGE) *80LB THRUST* *4* *112LB THRUST* *4.5*	1
62	2198400	ANODES, ZINC, 3.25/3.62" LWR UNT *55LB THRUST* *3.625*	1
64	2198401	ANODES, ZINC, 4.0"LWR UNIT *80LB THRUST* *4* *112LB THRUST* *4.5*	1
66	2091160	PROP-WW2 (3-5/8") REAMED *55LB THRUST* *3.625*	1
68	2341160	PROP-WW2 (4.5) ω/ADP.RING *112LB THRUST* *4.5*	1
70	2331160	PROP-WW2 (4") ω/ADP.RING *80LB THRUST**4*	1
72	188-095	BRUSH *4.5* *112LB THRUST*	2
74	188-094	BRUSH W/TERMINAL *4* *80LB THRUST*	2
76	975-040	SPRING - TORSION *3.625* *55LB THRUST*	2
78	975-045	SPRING - TORSION *4.5* *112 LB THRUST*	2
80	975-041	SPRING - TORSION *4* *80LB THRUST*	2
	×	RIVET25" *4* *80LB THRUST* *4.5* *112LB THRUST*	6
	640-126	LEADWIRE RED 10AWG 71" XLP	1
	640-145	LEADWIRE RED 10AWG 75 7/8" GPT	1
84	640-151	LEADWIRE RED 10 AWG 70.375 GPT	1
	640-149	LEADWIRE RED 10AWG 88" GPT	1
	640-133	LEADWIRE RED 10AWG 66-1/4 XLP	1
	640-049	LEADWIRE BLK 10AWG 88.50" GPT	1
	640-023	LEADWIRE BLK 10 AWG 69" GPT	1
86	640-045	LEADWIRE BLK 10 AWG 76.5 GPT	1
	640-025	LEADWIRE BLK 10 AWG 66 3/4 XLP	1
	640-022	LEADWIRE BLK 10 AWG 72.5 XLP	1
	*	BRUSH HOLDER *4* *80LB THRUST*	2

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

▲ Not shown on Parts Diagram.

♦ May only be available with i-Pilot or i-Pilot Link.

ltem	Part #	Description	Quantity
	×	BRUSH HOLDER *4.5* *112LB THRUST*	2
92	188-036	BRUSH ASSEMBLY *3.625* *55LB THRUST*	2
94	9-738-011	BRUSH PLATE *4.5* *112LB THRUST*	1
96	9-738-004	BRUSH PLATE 4" TERMINAL *4* *80LB THRUST*	1
98	738-036	BRUSH PLATE WITH HOLDER 3.625 *3.625* *55LB THURST*	1
	2260730	CONNECTOR 1/4 MALE TAB QD *4* *80LB THRUST*	2
102	2260731	TERMINAL 1/4" MALE TAB-THREE *4.5* *112LB THRUST*	2
104	2307312	BEAD-FERRITE *4.5* *112LB THRUST*	1
106	725-050	PAPER TUBE - BRUSH RETENTION *3.625* *55LB THRUST*	1
108	2-100-146	ARM ASY 12V 3.62 55#CB/LS *55LB THRUST* *3.625*	1
110	2-100-214	ARM ASSY 24V 4" 80# (WW2) *80LB THRUST* *4.0*	1
112	2-100-245	ARMATURE ASY 4.5"LWR UNIT *112LB THRUST* *4.5*	1
114	140-010	BEARING - BALL *55LB THRUST* *3.625* *80LB THRUST* *4.0*	1
116	140-014	BEARING-BALL 6000 *112LB THRUST* *4.5*	1
118	×	CTR HSG ASY 3.6 SW/CB/W-MG *55LB THRUST* *3.625*	1
120	×	CTR HSG ASM 4.0" SW CB MGNTZD *80LB THRUST* *4.0*	1
122	×	CTR HSG ASY 4.5" MAG FW CB *112LB THRUST* *4.5*	1
126	2-300-370	BRUSH END HSG ASY SW/W 4.0 *80LB THRUST* *4.0*	1
128	2-300-156	BRUSH END HSG ASY 4.5" SW *112LB THRUST* *4.5*	1
130	421-350	HSG BRSH END 3.62 SW CB/WHITE *55LB THRUST* *3.625*	1
132	2-400-337A	PLAIN END HSG ASY 3.6 TX/W *55LB THRUST* *3.625*	1
134	421-376	HSG PLN END 4" SW WHT BS *80LB THRUST* *4.0*	1
138	421-241	PLAIN END HSG 4.5" PNTD SW *112LB THRUST* *4.5*	1
140	337-036	GASKET *55LB THRUST* *3.625*	1
142	701-008	O-RING *55LB THRUST* *3.625*	2
144	701-081	O-RING *55LB THRUST* *3.625*	1
146	701-009	O-RING *80LB THRUST* *4.0*	2
148	701-043	O-RING *80LB THRUST* *4.0*	2
150	701-009	O-RING *112LB THRUST* *4.5*	2
152	701-098	O-RING, 98MM X 2MM *112LB THRUST* *4.5*	1
154	701-103	O-RING,103MM X 3.00MM, 70 BUNA *112LB THRUST* *4.5*	1
156	830-007	SCREW, # 8-32 *55LB THRUST* *3.625*	2
158	830-027	SCREW - SELF-THREAD 10-32X2.25 *80LB THRUST* *4.0*	2
160	2053410	SCREW-#8-32 X 1/2 TRI-LOBE HEX *112LB THRUST* *4.5*	2
162	830-008	THRU BOLT 10-32 x 9.205 *55LB THRUST* *3.625*	2
164	830-094	THRU BOLT 12-24 X10.31 *80LB THRUST* *4.0* *112LB THRUST* *4.5*	2
ltem	Part#	Description	Quantity

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- ▲ Not shown on Parts Diagram.
- ♦ May only be available with i-Pilot or i-Pilot Link.

166 830-094 THRU BOLT 12-24 x 10.31 *80LB THRUST *4.0* 2 168 990-067 WASHER - STEEL THRUST *5SLB THRUST *4.625* 11 170 990-051 WASHER - STEEL THRUST *5SLB THRUST *4.0* *112.B THRUST *4.5* 11 171 990-070 WASHER - NYLATRON *50.B THRUST *4.0* *112.B THRUST *4.5* 11 174 990-0752 WASHER - NYLATRON *50.B THRUST *4.0* *112.B THRUST *4.5* 11 174 990-0762 WASHER - NYLATRON *50.B THRUST *4.0* 11 174 990-0752 WASHER - NYLATRON *50.B THRUST *4.0* 11 174 990-0762 WASHER - NYLATRON *50.B THRUST *4.0* 11 175 990-0762 WASHER - SELLEVILLE *00.B THRUST *4.0* 12 178 973-025 SPACER - BRUSHPLATE *80.B THRUST *4.0* 22 188 992-010 WASHER - SELLEVILLE *10.2 B THRUST *4.0* 22 192 990-045 SPACER - THRUST *0.0 E THRUST *4.0* 11 200 788-040 RETAINING RING CONST *112.B THRUST *4.5* 11 201 2390800 € LANYARD, REMOTE W/CARABINER 11		0		
170 990-051 WASHER - STEEL THRUST '80LB THRUST' '4,0 * 112LB THRUST' 4,5 * 1 172 990-070 WASHER - NYLATRON *5SLB THRUST * 3,625 * 1 174 990-052 WASHER - NYLATRON *80LB THRUST * 4,0 * 112LB THRUST * 4,5 * 1 182 582-013 CLIP. RETAINING SHORT *80LB THRUST * 4,0 * 1 184 582-016 CLIP. RETAINING, SONAR *13.LB THRUST * 4,0 * 2 186 973-025 SPACER - BRUSHPLATE *80.B THRUST * 4,0 * 2 188 992-010 WASHER - BELLEVILLE *80.B THRUST * 4,0 * 2 190 992-011 WASHER - BELLEVILLE *80.B THRUST * 4,0 * 2 192 990-011 WASHER - BELLEVILLE *10.B THRUST * 4,5 * 1 200 788-040 RETAINING RING 1 201 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 202 2390800 ◆ LANYARD, REMOTE CHARGER *LINK ONLY* 1 203 237241 ◆ CABLE, ETHERNET, 30'* LINK ONLY* 1 214 225-055 SEAL 2 2 214 725-055 APAET	166	830-094	THRU BOLT 12-24 x 10.31 *80LB THRUST* *4.0*	2
172 990-070 WASHER - NYLATRON *S5LB THRUST* *3.625* 1 174 990-052 WASHER - NYLATRON *80LB THRUST* *4.0* *112LB THRUST* *4.5* 1 182 582-013 CLIP, RETAINING SHORT *80LB THRUST* *4.0* 1 184 582-016 CLIP. RETAINING SONAR *112LB THRUST* *4.5* 1 186 973-025 SPACER - BRUSHPLATE *80LB THRUST* *4.0* 2 188 992-010 WASHER - BELLEVILLE *80LB THRUST* *4.0* 2 190 992-011 WASHER - BELLEVILLE *80LB THRUST* *4.0* 2 192 990-045 SPACER - THRUST *80LB THRUST* *4.0* 1 204 982-011 WASHER - BELLEVILLE *132LB THRUST* *4.5* 1 205 788-040 RETAINING RING 1 206 788-040 RETAINING RING 1 207 2890800 • LANYARD, REMOTE W/ CARABINER 1 208 490389-1 • CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389-1 • CABLE, ETHERNET, 30 * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 </td <td>168</td> <td>990-067</td> <td>WASHER - STEEL THRUST *55LB THRUST* *3.625*</td> <td>1</td>	168	990-067	WASHER - STEEL THRUST *55LB THRUST* *3.625*	1
174 990-052 WASHER - NYLATRON '80LB THRUST' '4,0' '112LB THRUST' '4,5' 1 182 582-013 CLIP, RETAINING SHORT '80LB THRUST' '4,0' 1 184 582-016 CLIP-RETAINING, SONAR '112LB THRUST' '4,0' 2 186 973-025 SPACER - BRUSHPLATE '80LB THRUST' '4,0' 2 188 992-010 WASHER - BELLEVILLE '80LB THRUST' '4,0' 2 190 992-011 WASHER - BELLEVILLE '80LB THRUST' '4,0' 2 192 990-045 SPACER - THRUST '80LB THRUST' '4,0' 1 198 990-011 WASHER - BELLEVILLE '112LB THRUST' '4,0' 1 200 788-040 RETAINING RING 1 201 990-011 WASHER -SHIM OD 1',1D,630"SS *112LB THRUST' '4,5' 1 202 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 205 2373241 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 206 2373241 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASE	170	990-051	WASHER - STEEL THRUST *80LB THRUST* *4.0* *112LB THRUST* *4.5*	1
182 582-013 CLIP, RETAINING SHORT *80LB THRUST* *4,0* 1 184 582-015 CLIP-RETAINING, SONAR *112LB THRUST* *4,5* 1 186 973-025 SPACER - BRUSHPLATE *80LB THRUST* *4,0* 2 188 992-010 WASHER · BELLEVILLE *80LB THRUST* *4,0* 2 190 992-011 WASHER · BELLEVILLE *112LB THRUST* *4,0* 2 192 990-045 SPACER · THRUST *80LB THRUST* *4,0* 1 198 990-011 WASHER · BELLEVILLE *112LB THRUST* *4,0* 1 200 788-040 RETAINING RING 1 202 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 205 2373241 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 216 490389-1 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 217 2880-025 SEAL 2 218 490389-1 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 219 2996400 HEADING SENSOR ASSEMBLY 1 210	172	990-070	WASHER - NYLATRON *55LB THRUST* *3.625*	1
1844 582-016 CLIP-RETAINING, SONAR *112LB THRUST* *4,0* 1 186 973-025 SPACER - BRUSHPLATE *80LB THRUST* *4,0* 2 188 992-010 WASHER · BELLEVILLE *80LB THRUST* *4,0* 2 190 992-011 WASHER · BELLEVILLE *112LB THRUST* *4,0* 2 192 990-045 SPACER · THRUST *80LB THRUST* *4,0* 1 198 990-011 WASHER · BELLEVILLE *112LB THRUST* *4,5* 1 200 788-040 RETAINING RING 1 202 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 205 2373241 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 206 2373241 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 211 222 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 215 144-017 BEARING, FLANGE 1 224 2372103<	174	990-052	WASHER - NYLATRON *80LB THRUST* *4.0* *112LB THRUST* *4.5*	1
186 973-025 SPACER - BRUSHPLATE *80LB THRUST *4.0* 2 188 992-010 WASHER - BELLEVILLE *80LB THRUST *4.0* 2 190 992-011 WASHER - BELLEVILLE *102LB THRUST *4.5* 2 192 990-045 SPACER - THRUST *80LB THRUST *4.5* 2 192 990-011 WASHER - BELLEVILLE *112LB THRUST *4.5* 1 198 990-011 WASHER - SHIM OD 1".ID.630"SS *112LB THRUST *4.5* 1 200 788-040 RETAINING RING 1 202 2390800 * LANYARD, REMOTE W/ CARABINER 1 204 2375901 * ADAPTER, USB DC POWER *LINK ONLY* 1 205 2373241 * CABLE, USB REMOTE CHARGER *LINK ONLY* 1 206 2373241 * CABLE, ETHERNET, 30 * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 224 2372103	182	582-013	CLIP, RETAINING SHORT *80LB THRUST* *4.0*	1
188 992-010 WASHER - BELLEVILLE *80LB THRUST**4.0* 2 190 992-011 WASHER - BELLEVILLE *112LB THRUST**4.5* 2 192 990-045 SPACER - THRUST *80LB THRUST**4.0* 1 198 990-011 WASHER - BELLEVILLE *112LB THRUST**4.5* 1 200 788-040 RETAINING RING 1 202 2390800 * LANYARD, REMOTE W/ CARABINER 1 204 2375901 * ADAPTER, USB DC POWER *LINK ONLY* 1 206 2373241 * CABLE, USB REMOTE CHARGER *LINK ONLY* 1 207 2996400 HEADING SENSOR ASSEMBLY 1 218 490389.1 * CABLE, ETHERNET, 30 * LINK ONLY* 1 219 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 2 214 725-095 PAPER TUBE, SEAL 1 218 144-017 BEARING, FLANGE 1 219 3393450 SCREW#6 X.375 PLASTITE S5 1 224 2372103 SCREW #6 X.375 PLASTITE S5 1	184	582-016	CLIP-RETAINING, SONAR *112LB THRUST* *4.5*	1
190 992-011 WASHER - BELLEVILLE *112LB THRUST *4.5* 2 192 990-045 SPACER - THRUST *80LB THRUST *4.0* 1 198 990-011 WASHER - SHIM OD 1", ID.630"SS *112LB THRUST *4.5* 1 200 788-040 RETAINING RING 1 202 2390800 * LANYARD, REMOTE W/ CARABINER 1 204 2375901 * ADAPTER, USB DC POWER *LINK ONLY* 1 206 2373241 * CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389-1 * CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 224 3393450 SCREW #6.1.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625*	186	973-025	SPACER - BRUSHPLATE *80LB THRUST* *4.0*	2
192 990-045 SPACER - THRUST *80LB THRUST * 4.0* 1 198 990-011 WASHER-SHIM OD 1", ID.630"SS *112LB THRUST * 4.5* 1 200 788-040 RETAINING RING 1 202 2390800 * LANYARD, REMOTE W/ CARABINER 1 204 2375901 * ADAPTER, USB DC POWER *LINK ONLY* 1 206 2373241 * CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389.1 * CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 214 725-095 SCREW.#6-19 X.75 PPH HI-LOW S5 4 224 2372103 SCREW.#6-19 X.75 PPH HI-LOW S5 4 224 2372103 SCREW.#6 X.375 PLASTITE S5 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT* 1 228 788-015 RETAINING RING *3.	188	992-010	WASHER - BELLEVILLE *80LB THRUST* *4.0*	2
198 990-011 WASHER-SHIM OD 1",ID.630"SS *112LB THRUST* *4,5* 1 200 788-040 RETAINING RING 1 202 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 205 2373241 ◆ CABLE, USB REMOTE CHARGER *LINK ONLY* 1 206 2373241 ◆ CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389-1 ◆ CABLE, ETHERNET, 30'* LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW #6 X.375 PLASTITE SS 1 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST **COPILOT* 1 228 788-015 RETAINING RING *3.625*	190	992-011	WASHER - BELLEVILLE *112LB THRUST* *4.5*	2
200 788-040 RETAINING RING 1 202 2390800 (LANYARD, REMOTE W/ CARABINER) 1 204 2375901 (ADAPTER, USB DC POWER *LINK ONLY*) 1 206 2373241 (CABLE, USB REMOTE CHARGER *LINK ONLY*) 1 208 4903891 (CABLE, ETHERNET, 30' * LINK ONLY*) 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 218 144-017 BEARING, FLANGE 1 222 3393450 SCREW #6 19 X.75 PPH HI-LOW 55 4 224 2372103 SCREW #6 X.375 PLASTITE S5 1 225 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST *COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	192	990-045	SPACER - THRUST *80LB THRUST * 4.0*	1
202 2390800 ◆ LANYARD, REMOTE W/ CARABINER 1 204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 206 2373241 ◆ CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389-1 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 2 215 144-017 BEARING, FLANGE 1 222 3393450 SCREW+#6-19 X.75 PPH HI-LOW 5S 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST**COPILOT* 1 228 788-015 RETAINING RING *3.625* 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	198	990-011	WASHER-SHIM OD 1",ID.630"SS *112LB THRUST* *4.5*	1
204 2375901 ◆ ADAPTER, USB DC POWER *LINK ONLY* 1 206 2373241 ◆ CABLE, USB REMOTE CHARGER *LINK ONLY* 1 208 490389-1 ◆ CABLE, ETHERNET, 30' * LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 2 215 144-017 BEARING, FLANGE 1 222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 224 2372103 SCREW #6 X.375 PLASTITE SS 1 225 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST**COPILOT* 1 228 788-015 RETAINING RING *3.625* 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	200	788-040	RETAINING RING	1
206 2373241 (ABAGA, GABA,	202	2390800 ♦	LANYARD, REMOTE W/ CARABINER	1
208 490389-1 ◆ CABLE, ETHERNET, 30'* LINK ONLY* 1 210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 229 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	204	2375901 ♦	ADAPTER, USB DC POWER *LINK ONLY*	1
210 2996400 HEADING SENSOR ASSEMBLY 1 212 880-025 SEAL 22 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X 375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST *COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 CULAR-FRONT, LIFT ASSIST, SW 1	206	2373241 ♦	CABLE, USB REMOTE CHARGER *LINK ONLY*	1
212 880-025 SEAL 2 214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW-#6-19 X.75 PPH HI-LOW SS 1 226 2372103 SCREW #6 X.375 PLASTITE SS 1 228 788-015 DECAL, COVER, RT, T280 *80LB THRUST *COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	208	490389-1♦	CABLE, ETHERNET, 30' * LINK ONLY*	1
214 725-095 PAPER TUBE, SEAL 1 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST *COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	210	2996400	HEADING SENSOR ASSEMBLY	1
All All Color Macher Color, Data Color 216 144-017 BEARING, FLANGE 1 222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	212	880-025	SEAL	2
222 3393450 SCREW-#6-19 X.75 PPH HI-LOW SS 4 224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	214	725-095	PAPER TUBE, SEAL	1
224 2372103 SCREW #6 X.375 PLASTITE SS 1 226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	216	144-017	BEARING, FLANGE	1
226 2325617 DECAL, COVER, RT, T2 80 *80LB THRUST * COPILOT * 1 228 788-015 RETAINING RING *3.625 * 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	222	3393450	SCREW-#6-19 X.75 PPH HI-LOW SS	4
228 788-015 RETAINING RING *3.625* 1 230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	224	2372103	SCREW #6 X .375 PLASTITE SS	1
230 2321521 COLLAR-FRONT, LIFT ASSIST, SW 1	226	2325617	DECAL, COVER, RT, T2 80 *80LB THRUST* *COPILOT*	1
	228	788-015	RETAINING RING *3.625*	1
232 2321526 COLLAR-BACK, LIFT ASSIST, SW 1	230	2321521	COLLAR-FRONT, LIFT ASSIST, SW	1
	232	2321526	COLLAR-BACK, LIFT ASSIST, SW	1

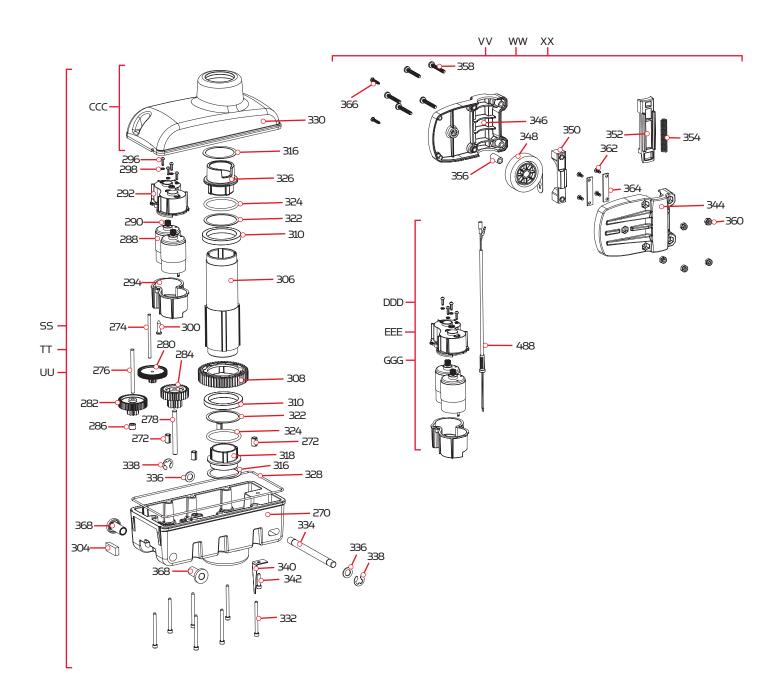
X This part is included in an assembly and cannot be ordered individually.

▲ Not shown on Parts Diagram.

♦ May only be available with i-Pilot or i-Pilot Link.

RIPTIDE TERROVA STEERING HOUSING

Steering Housing Parts Diagram



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Steering Housing Parts List

Assembly	Part #	Desctiption	Quantity
SS	2997064	STEERING HSG ASM 12V SW	1
TT	2997065	STEERING HSG ASM 24V SW	1
UU	2997063	STEERING HSG ASM 36V SW	1
VV	2992730	LIFT ASSIST, 55# SW	1
ww	2992731	LIFT ASSIST, 80# SW	1
XX	2992732	LIFT ASSIST, 112# SW	1
ССС	2776562	STEERING HSG TOP SW / GEAR KIT	1
DDD	2777060	STEERING MOTOR KIT, 12V T2	1
EEE	2777061	STEERING MOTOR KIT, 24V T2	1
GGG	2777063	STEERING MOTOR KIT, 36V SW T2 *DUAL MOTOR*	1
ltem	Part #	Desctiption	Quantity
270	2326507	STEERING HSG,BTTM,SW,WHT	1
272	×	PIN-ROLL 5/16" X 1/2"	4
274	×	SHAFT-GEAR, FIRST CLUSTER	1
276	×	SHAFT-GEAR,INTERMED.CLUSTER	1
278	×	SHAFT-GEAR, THIRD CLUSTER	1
280	2302245	GEAR & PINION, DR. HSG, STAGE 2	1
282	2302250	GEAR & PINION, DR. HSG, STAGE 3	1
284	2302255	GEAR & PINION, DR. HSG, STAGE 4	1
286	2321730	SPACER,GEAR CLUSTER	1
	×	MOTOR, STEERING 12V FW T2	1
288	×	MOTOR, STEERING 24V FW T2	1
	×	MOTOR, STEERING 36V FW T2	2
290	2302240	PINION GEAR, DR.HSG, STAGE 1	1
- O-	2322520	CASE-MOTOR, STRG HSG, TOP *12 VOLT* *24 VOLT*	1
292	2322521	CASE-MTR, STEER HSG, TOP w/HOLES *36 VOLT*	1
294	2322525	CASE-MOTOR, STRG HSG, BTM	1
296	2372103	SCREW-X6 X /375 PLASTITE SS	4
298	2051710	SPLIT LOCK WASHER 3MM	4
300	2043412	SCREW-#8-18 X 3/4 TY AB SS PPH	1
302	2320605	LEADWIRE, STEERING MOTOR	1
304	2308601	BREATHER FILTER, DR.HOUSING	1
306	2322031	TUBE-OUTPUT, SALTWATER	1
308	2322200	GEAR-OUTPUT	1
310	2327315	BUSHING,ALUMIN. SPACER ST	2
316	2321704	WASHER-THRUST, STEERING	2

 $\pmb{\textbf{X}}$ This part is included in an assembly and cannot be ordered individually.

▲ Not shown on Parts Diagram.

May only be available with i-Pilot or i-Pilot Link.

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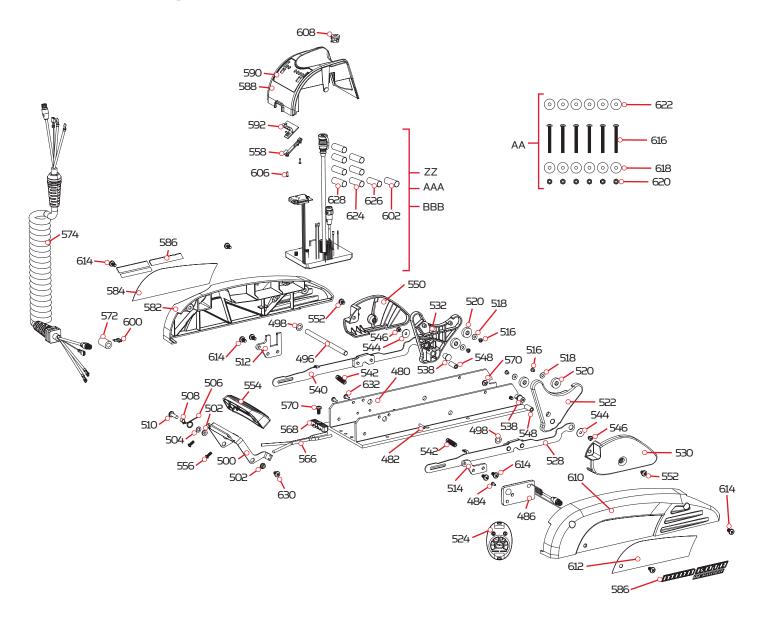
ltem	Part #	Desctiption	Quantity
318	2321510	COLLAR-DRIVE,BOTTOM	1
322	2321720	SHIM,O-RING	2
324	2324608	O-RING,224, STR HSG	2
326	2321530	LINER OUTPUT TUBE, LIFT ASSIST	1
328	2324604	O-RING, CASE SEAL	1
330	×	HOUSING-STEERING, TOP, SW	1
332	2323408	SCREW-#8-32 X 2.0 SHCS SS	7
334	2322601	PIN-LATCH, SS	1
336	2321702	WASHER-FLAT .375 NYLON	2
338	2263011	E-RING 3/8 DIA. SHAFT	2
340	2322702	SPRING, LATCH PIN SS	2
342	2323410	SCREW-#8-32 X .75 SHCS SS	1
344	2326546	HOUSING-RIGHT,LIFT ASSIST, SW	1
346	2326541	HOUSING-LEFT, LIFT ASSIST, SW	1
	2997903	ASSEMBLY-HUB/SPRING, 55# INCNL	1
348	2997904	ASSEMBLY-HUB/SPRING, 80# INCNL	1
	2997905	ASM-HUB/SPRING,112# INCN	1
350	2322300	GUIDE,DR.DOG, LIFT ASSIST	1
352	2328605	ENGAGEMENT DOG, LIFT ASST	1
354	2322725	SPRING,COMPRESSION,.360" OD SS	1
356	2322610	PIN-AXLE, LIFT ASSIST	1
358	2323430	SCREW-#10-24 X 1-3/8, PPH	5
360	2333101	NUT-HEX #10-24 UNC-2B NYL SS	5
362	2372103	SCREW-#6 X .375 PLASTITE SS	ų
364	2321955	BRACKET, LIFT ASSIST	2
366	3393450	SCREW-#6-19 X .75 PPH HI-LO	2
368	2327310	BUSHING, PIVOT PIN	2
370	2327314	BUSHING, PRO STEERING SW	2
488	*	LEADWIRE, STEERING MOTOR	1

- ▲ Not shown on Parts Diagram.
- ♦ May only be available with i-Pilot or i-Pilot Link.

RIPTIDE TERROVA MOUNT

Mount Parts Diagram

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Mount Parts List

Assembly	Part #	Desctiption	Quantity
ZZ	2774066	CTRL BRD, 24/36V TRV BT ω/SHRNK	1
ΑΑΑ	2774067	CTRL BRD, 12V TRV BT ω/SHRNK *i-PILOT/i-PILOT LINK*	1
BBB	2774069	CTRL, BRD, 24/36V IP TRV BT, SHRNK *i-PILOT/i-PILOT LINK*	1
AA	2994864	BAG ASSY-TERROVA/V2,MNTG HDW	1
ltem	Part #	Desctiption	Quantity
480	2321908	BASE-EXTRUSION, MACH, SW	1
482	2322912	PIN-ROLL .1875 X 1.000 55	2
484	2332103	SCREW-#8-18 X 1/2 (SS) *COPILOT*	1
486	2374197	PCB ASY COPLT REC. TERROVA *COPILOT*	1
	2325501	DECAL, STOW / DEPLOY, T2	1
496	2322603	PIN-PIVOT, SS	1
498	2333100	NUT-SPEED (SS) 3HP-SS	2
500	2320406	HANDLE, RELEASE, SW	1
502	2322604	BUSHING,HANDLE,GOBEIL	2
504	2071716	WASHER-FLAT SS .253 x .470	1
506	2322701	SPRING, TORSION	1
508	2301700	SPACER-RELEASE LEVER-BRASS	1
510	2073408	SCREW-1/4-20 X 7/8 PPH S/S	1
512	2321941	BRACKET, STRAIN RELIEF SW	1
514	2321951	BRACKET, SIDEPLATE SW	1
516	2323412	SCREW-#8-18 X .25 PPH SS TY B	4
518	2321706	WASHER-FLAT #8 .50 OD/.188 SS	4
520	2325117	PAD, RUBBER REST, WHITE	4
	2323910	RAMP-MOTOR, RIGHT 3-5/8"	1
522	2323931	RAMP-MOTOR, RIGHT 4.5"	1
	2323930	RAMP-MOTOR, RIGHT 4"	1
524	2994095	TRANSMITTER ASY,TRRV CPLT *COPILOT*	1
528	2994201	ARM/SUPPORT BLOCK ASSY,R,SW	1
530	2321922	PLATE-SKID, RIGHT	1
	2323915	RAMP-MOTOR, LEFT 3 5/8"	1
532	2323935	RAMP-MOTOR, LEFT 4"	1
	2323936	RAMP-MOTOR, LEFT 4.5"	1
538	2324706	INSERT-MOTOR RAMP, METAL, SS	2
540	2994203	ARM/SUPPORT BLOCK ASSY,L,SW	1

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- ▲ Not shown on Parts Diagram.
- ♦ May only be available with i-Pilot or i-Pilot Link.

ltem	Part #	Desctiption	Quantity
542	2322716	SPRING, EXTENSION, T2	2
544	2321700	WASHER #10 SS	2
546	2323422	SCREW-#10-24 X .25" PPH SS MCH	2
548	2322921	STAND-OFF, ALUM. ANODIZED	2
550	2321927	PLATE-SKID, LEFT	1
552	2323403	SCREW-1/4-20 X.375 MCH SS CRPH	З
554	2320218	COVER, HANDLE COSMETIC SW	1
556	2383446	SCREW-#8-16 X .50" PLASTITE SS	2
558	2320830	LOCKING TAB, PWR/BAT.METER	1
560	2383428	SCREW-#4-24 X 3/8 HI-LO SS	2
562	2320202	CAP-DUST,CONNECTOR, MALE	1
	2323406	SCREW-#10-24 X .50 CRPH SS	2
566	2090651	LEADWIRE,10 GA	1
568	2321310	STRAIN RELIEF	1
570	2323405	SCREW-1/4-20 X 1/2" MCH SS	З
572	2307312	BEAD-FERRITE	1
574	2991271	COIL CORD ASY 54"/60" NON-US2	1
582	2323926	SIDEPLATE-LEFT, RT/ST	1
584	2325646	DECAL,MTR REST,T2/ST LEFT	1
586	2205512	DECAL,SIDEPLATE,SW ULTERRA,T2	2
588	2326531	HOUSING-CENTER, RT/ST	1
590	2325653	DECAL,BM/CN/PWR STATUS SW	1
	2074082	BATTERY METER, 36V, SW	1
592	2074081	BATTERY METER, 24V, SW	1
	2074080	BATTERY METER, 12V, SW	1
	2321721	SHIM, 2 X 4 X .025"	1
600	2320710	TERMINAL-AMP (T-TAB)	1
602	2325401	SHRINK TUBE-3/4 ID X 2" W/ADHS	1
	2321315	HOLDER-CONNECTOR,NYLON,BLACK	1
606	2332103	SCREW-#6-20 X 3/8 THD*(SS)	2
608	2322901	STRAIN RELIEF, HEYCO P/N 1852	1
610	2323921	SIDEPLATE-RIGHT, RT/ST	1
612	2325645	DECAL,MOTOR REST,RIPTIDE,RIGHT	1
614	2323405	SCREW-1/4-20 X 1/2" T-L SS	8
616	2263462	SCREW-1/4-20 X 2" S/S PPH ADJT	6
618	2261713	WASHER-1/4 FLAT 18-8 SS	6
620	2263103	NUT-1/4-20 NYLOCK SS	6

- ▲ Not shown on Parts Diagram.
- ♦ May only be available with i-Pilot or i-Pilot Link.

ltem	Part #	Description	Quantity
622	2301720	WASHER-MOUNTING - RUBBER	6
624	2305410	SHRINK TUBE315 OD X 2.25" *SALTWATER*	З
626	2305415	SHRINK TUBE472 ID X 2.25" *SALTWATER*	1
628	2305403	SHRINK TUBE500 IDX1.0" ADHSV *SALTWATER*	4
630	2332104	SCREW-1/4-20 X 5/8 S/S	1
632	2323402	SCREW-1/4-20 X .375 T-L, ZP	2

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

▲ Not shown on Parts Diagram.

May only be available with i-Pilot or i-Pilot Link.

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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.



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Talon deploys faster, holds stronger and runs quieter than any other shallow water anchor. Available in depths up to 12' and bold color options including camo, it boasts an arsenal of features and innovations that no other anchor can touch:



- Vertical, Multi-Stage Deployment
- User-Selectable Anchoring Modes Built-In Wave Absorption
- 2x Anchoring Force
- Fast Deploy
- Auto Up/Down

- Triple Debris Shields
- Noise Dissipation
- Versatile Adjustments

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