ADJUSTING THE LOWER UNIT FOR A SECURE STOW

ADJUSTING THE LOWER UNIT FOR A SECURE STOW

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

> Adjusting the Lower Unit for a Secure Stow (60" Shafts)

- Before transporting the boat over water or land, stow the motor to ensure the Lower Unit rests properly on the Fall Away Ramps. When stowing the motor, the Lower Unit should be pulled fully onto the Fall Away Ramps, which rotate up to cradle the Lower Unit in the stowed position. The STOWED _ LED on the Indicator Panel will illuminate orange when the Fall Away Ramps latch upright.
 - b. If the Lower Unit does not sit on the Fall Away Ramps, press the Stow Deploy Lever and adjust the motor to allow the Lower Unit to rest on the Ramps.
 - c. With the Lower Unit in place on the Ramps, and the orange STOWED O LED illuminated on the Indicator Panel, slide the Depth Collar down against the Steering Housing and close the Cam Lever to secure the motor.

▲ CAUTION

The Lower Unit should be placed on the Fall Away Ramps every time the motor is transported. If the Lower Unit is improperly placed, damage to the Lower Unit or Shaft will occur. Failure to follow the recommended placement for the Lower Unit will cause damage to the product and void your product warranty.



NOTICE: To secure the motor in place and prevent accidental deployment when stowed, slide the Depth Collar down against the top of the Steering Housing and close the Cam Lever to lock the Depth Collar.

🗥 WARNING

When the motor is being transported, it is important to place the Depth Collar snug against the Steering Housing and close the Cam Lever to lock the Depth Collar. 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.

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ADJUSTING THE LOWER UNIT FOR A SECURE STOW

> Adjusting the Lower Unit for a Secure Stow (72", 87", and 100" Shafts)

- Before transporting the boat over water or land, stow a. the motor to ensure the Lower Unit rests properly on the Fall Away Ramps. When stowing the motor, the Lower Unit should be pulled fully onto the Fall Away Ramps, which rotate up to cradle the Lower Unit in the stowed position. The STOWED O LED on the Indicator Panel will illuminate orange when the Fall Away Ramps latch upright.
 - b. If the Lower Unit does not sit on the Fall Away Ramps, press the Stow Deploy Lever and adjust the motor to allow the Lower Unit to rest on the Ramps.
 - c. With the Lower Unit in place on the Ramps, and the orange STOWED O LED illuminated on the Indicator Panel, secure the motor in place by flipping the Lock Arm on the Stow Lock Collar into the locked position. Ensure that the Lock Arm is fully seated against the Stow Lock Collar.

▲ CAUTION

The Lower Unit should be placed on the Fall Away Ramps every time the motor is transported. If the Lower Unit is improperly placed, damage to the Lower Unit or Shaft will occur. Failure to follow the recommended placement for the Lower Unit will cause damage to the product and void your product warranty.



NOTICE: To secure the motor in place and prevent accidental deployment when stowed, lock the Stow Lock Collar (\square) . Be sure to press the Lock Arm so that it is fully seated against the Stow Lock Collar.

WARNING

When the motor is being transported, it is important to fully lock A the Stow Lock Collar. 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.

ROTATING THE DEPTH COLLAR

The Depth Collar is installed from the factory so that the Cam Lever opens in an upward motion when the Stow Orientation of the lower unit is Prop Left. The factory default Stow Orientation is Prop Left. Stow Orientation can be changed to Prop Right using the wireless remote or One-Boat Network app. For more information about Stow Orientation, refer to the "One-Boat Network" section of this manual.



A Prop Right orientation turns the lower unit and shaft when stowed, causing the Depth Collar to open downward. This reduces its range of motion and creates an obstruction when placing the Depth Collar for a secure stow.



If the Stow Orientation is changed to Prop Right, the Depth Collar must be rotated on the shaft to improve accessibility. The Depth Collar is positioned correctly on the Shaft when the Cam Lever opens upward when the motor is stowed.



TOOLS AND RESOURCES REQUIRED >

#3 Phillips Screwdriver



INSTALLATION >

- a. With the Stow Orientation the trolling motor. Ensure resting securely on the Fa the STOWED On th illuminated orange.
- b. Release the Depth Collar I
- c. Locate the single Screw of Depth Collar. This Screws
- d. Using a #3 Phillips Screwd Lever open, remove the Sc While loosening the Screw the Depth Collar to access

э er. am Collar. /es of Spring

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Lever.

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sits between the Depth Co ained by the Screw. Take the Spring and place it onto the

Screw, then set both aside for reassembly later.

e. Remove the Cam Lever from the Depth Collar and set it aside. There is a Pin contained in the Cam Lever. If the Pin slides out, place it back in before reassembly.

1a Depth Collar am ever Fall Away Ramps Depth Collar Spring Screw 1e Cam Pin Lever d

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- f. Remove the Depth Collar from the Shaft. Turn the Depth Collar 180° so that the screw hole in the Depth Collar sits above the Shaft.
 - Place the Depth Collar on the Shaft in the new g. position. For motors with a 72", 87" or 100" shaft, the Depth Collar should sit between the Control Head and Coil Cord Slider. On motors with a 60" shaft, the Depth Collar can sit anywhere between the Control Head and Steering Housing.
 - h. Pay attention to the shape of the Depth Collar halves and ensure that they close correctly around the Shaft. The Friction Pad inside the Depth Collar should sit against the groove of the Shaft.



With the Depth Collar in position on the Shaft, take i. the Screw and Spring that were removed earlier in the installation. Hold the Spring inside the Depth Collar against the screw hole. The Spring should sit between the Depth Collar halves. Insert the Screw into the Depth Collar so that it passes through the Spring and out the second half of the Depth Collar.

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- i. Take the Cam Lever and ensure that the Pin is inside. Hold the Cam Lever in position against the Depth Collar, with the threaded hole in the Pin positioned towards the Screw. Pay attention to the shape of the Cam Lever and hold it so it curves over to wrap around the Depth Collar. When positioned correctly, the curve in the Cam Lever should follow the shape of the Depth Collar when closed. Attaching the Cam Lever upside down will prevent the Depth Collar from closing.
- k. Using a #3 Phillips Screwdriver, hold the Screw steady while aligning the Pin in the Cam Lever. It may be necessary to rotate the Pin inside the Cam Lever so that the threaded hole aligns with the Screw. Begin tightening the Screw so it catches the Pin. When the Screw engages with the Pin, close the Cam Lever to lock the Depth Collar. Finish tightening the Screw to 60 in-lbs.
- 1. Ensure that the Cam Lever is neither too loose nor too tight. If the Cam Lever is too tight, it will be difficult to open or close and the Depth Collar will not move, even when unlocked. If the Cam Lever is too loose, the Depth Collar will not securely hold the Shaft even when locked. If the Depth Collar can be forcibly pushed up or down the Shaft when locked, the Collar is too loose. Recheck the tension of the Screw and tighten or loosen as needed.









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ADJUSTING THE STOW LOCK COLLAR TENSION

ADJUSTING THE STOW LOCK COLLAR TENSION

The tension on the Stow Lock Collar is adjustable and can be tightened or loosened as needed. The Stow Lock Collar may wear and loosen over time. If the Stow Lock Collar is no longer securely holding the Shaft when in the locked Aposition, it may be necessary to tighten the Lock Arm on the Collar.

TOOLS AND RESOURCES REQUIRED >

• 1/8" Hex Head Screwdriver

• 3/8" Socket Wrench

INSTALLATION >

- a. Stow the trolling motor. Ensure that the Lower Unit is resting securely on the Fall Away Ramps.
- b. Unlock the Stow Lock Collar.
- c. Use a 1/8" Hex Head Screwdriver to loosen the Shoulder Bolt and Nylock Nut that secure the Lock Arm to the Stow Lock Collar. Loosen the Bolt in a counterclockwise direction. Remove the Bolt and Nylock Nut and set aside for reassembly later.
- d. With the Bolt removed, pull the Lock Arm out of the Stow Lock Collar. The tension adjustment for the Stow Lock Collar is made using the Lock Arm.



ADJUSTING THE STOW LOCK COLLAR TENSION

Molded into the plastic on top of the Lock Arm is e. a small arrow. The arrow points to a Splined Insert contained within the Lock Arm. The larger the number in front of the arrow, the higher the tension on the Stow Lock Collar. The Splined Insert within the Lock Arm contains five Splines that are used to adjust the tension. The Stow Lock Collar comes from the factory with the middle Spline aligned to the arrow.

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- f. Lift the Splined Insert from the center of the Lock Arm so the Splines are raised and free to rotate.
- g. To tighten the Lock Arm on the Stow Lock Collar, rotate the Splined Insert one Spline clockwise. To loosen the grip of the Lock Arm, rotate the Insert one Spline counterclockwise. A smaller number will be looser, a larger number will be tighter.
- h. When the desired Spline tension is in line with the arrow, press the Splined Insert back into the Lock Arm so that the Insert is fully seated.



ADJUSTING THE STOW LOCK COLLAR TENSION

i. To reassemble, hold the Lock Arm so that the Splined Insert faces the Control Head.

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- j. Align the hole in the Lock Arm with the holes in the base of the Stow Lock Collar. Hold the Lock Arm so it is in the unlocked position.
- k. Insert the Shoulder Bolt into the Stow Lock Collar so it passes through the Lock Arm and out the hexkeyed recess.
- I. Insert the Nylock Nut into the hex-keyed recess. The flat side of the Nylock Nut should face toward the Control Head, while the rounded edge should face down.
- m. With a 1/8" Hex Bit Screwdriver and 3/8" Socket Wrench, hand-tighten the Shoulder Bolt. The Nylock Nut should sit flat when tight and be snug with the plastic of the Stow Lock Collar. Threads should stick out slightly and be visible past the end of the Nylock Nut.
- n. Close the Lock Arm on the Stow Lock Collar so that it is in the locked Position. Test the security of the Stow Lock Collar by pressing the Stow Deploy Lever to release the Fall Away Ramps, then trying to push the Lower Unit out horizontally and away from the Ramps. If the motor holds successfully, the adjustment is complete. If the motor moves when pushed, pull the Lower Unit back onto the Fall Away Ramps. Remove the Lock Arm and turn the Splined Insert clockwise an additional Spline, Reassemble the Stow Lock Collar and repeat the test until the motor can no longer be moved when the Stow Lock Collar is in the locked \square position.



NOTICE: If the Stow Lock Collar is too tight, the Shaft will not move freely even when the Stow Lock Collar is unlocked. If the Stow Lock Collar is too loose, it will not securely hold the Shaft when locked.

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INSTALLING AN EXTERNAL TRANSDUCER

INSTALLING AN EXTERNAL TRANSDUCER

An external transducer is not included with your trolling motor. An external transducer can be installed onto motors that have Advanced GPS Navigation.

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

CAUTION

Failure to follow the recommended wire routing for the External Transducer may cause damage to the product and void your product warranty. Test the length and placement of cable to ensure that there is enough slack where needed. Ensure that cables will be free and not become entangled in moving parts. Routing the cables in any way other than directed may cause damage to the cables by being pinched or severed.



SERVICE & MAINTENANCE

PROP REPLACEMENT

TOOLS AND RESOURCES REQUIRED >

• 9/16" Deep Well Socket

INSTALLATION >



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

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

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

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

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

▲ CAUTION

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





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leck with the battery manufacturer for specifics on the battery.

Steering Housing. Water that sits in the steering housing when the motor is

between the Mount and Steering Housing is clean and free of debris. The stowed. If debris such as dirt, gravel, weeds, or fishing line enters this secure stow. Periodically clean this space to ensure a secure stow.

ove der Mount Sideplate

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TROUBLESHOOTING

TROUBLESHOOTING

- 1. Motor fails to run or lacks power:
 - Check the state of the batteries and replace if necessary. Low battery voltage will cause an error.
 - · Check battery connections for proper polarity.
 - Make sure 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 stow:
 - Lubricate the composite shaft.
 - For 72", 87", and 100" shaft motors, check that the Stow Lock Collar is in the unlocked position. If difficult to stow even when unlocked, loosen the tension of the Stow Lock Collar.
- 4. You experience Prop vibration during normal operation:
 - Replace the Prop.
 - Remove and rotate the Prop 180°. See removal instructions in the Prop Replacement section.
- 5. Experiencing interference with your fish finder:
 - You may, in some applications, experience interference in your fish finder display. We recommend that you use a separate deep cycle marine battery system for your trolling motor. If problems still persist, call our service department at 1-800-227-6433.
- 6. Experiencing flashing red System Status 👷 LED on the Indicator Panel:
 - The trolling motor is communicating that there is an error. Check the Wireless Remote Diagnostic menu for an error code, then refer to the Wireless Remote owner's manual for information on error codes and solutions. Correct the error and cycle power to the trolling motor. If the LED continues to flash red, please contact the Minn Kota service department.

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

FOR FURTHER TROUBLESHOOTING AND REPAIR

FOR FURTHER TROUBLESHOOTING AND REPAIR

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



Buy Parts Online

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



Frequently Asked Questions

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



Call Us (for U.S. and Canada)

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

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Contact Us

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



Authorized Service Centers

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



Scan to visit Minn Kota service online.

COMPLIANCE STATEMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT

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

WEEE DIRECTIVE

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

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

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



DISPOSAL

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

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

REGULATORY COMPLIANCE INFORMATION

> Advanced GPS Navigation

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

FCC COMPLIANCE

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

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

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

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

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

INDUSTRY CANADA COMPLIANCE

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

ENVIRONMENTAL RATINGS

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



CE/UKCA MASTER USER MANUAL (FOR CE/UKCA CERTIFIED MODELS)

RIPTIDE TERROVA QUEST - 90/115 THRUST - 24/36 VOLTS - 60"/72"/87"/100" SHAFT

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

RIPTIDE TERROVA QUEST CONTROL HEAD 〉

> Control Head Parts Diagram



Control Head Parts List

Assembly	Part #	Description	Notes	Quantity
A	2774193	CONTROLLER KT 4.0 QUEST SW WHT		1
В	2770249	CTRL BOX COVER QUEST SW WHT	*COVER & DECALS*	1
С	2991530	CLAMP COLLAR ASSEMBLY		1
D	×	STOW LOCK COLLAR ASSEMBLY	*72"* *87"* *100"*	1
E	×	COIL CORD SLIDER ASSEMBLY	*72"* *87"* *100"*	1
F	411690-1	TROLLING MOTOR REMOTE		1
Item	Part #	Description	Notes	Quantity
2	2200221	CONTROL BOX COVER, WHITE		1
4	2395561	DECAL,PSH BTN, INST, WHT		1
6	2205541	DECAL, CTRL BOX MK RIGHT SW		1
8	2205546	DECAL, CTRL BOX MK LEFT SW		1
10	2203441	SCREW-#6 X 1/2" THRD FORM,SSTL		3
12	2206302	TIE WRAP, SCREW MOUNT 6.3"		1
14	2206710	PLUG, RUBBER, DI/SI		1
16	2205413	SHRINK TUBE-3/4 X 2.25"		2
18	2372100	SCREW-#8-18 X 5/8 THD* (SS		4
20	2206301	TIE WRAP, LOW PROFILE 8"		1
22	2202521	CONTROL BOX BASE, ULTERRA SW		1
24	2263406	SCREW-#10-24 X 2" S/S PPH		1
26	2333101	NUT-HEX #10-24 UNC-2B NYL SS		1
28	2390802	LANYARD w/CARARBINER IP RMT U2		1
30	490384-4	CABLE, ETHERNET (M12-M12), 30'		1
32	490380-1	CABLE, ETHERNET PIGTAIL-700 HD		1
36	2291530	CLAMP COLLAR, BOLT SIDE		1
38	2291535	CLAMP COLLAR, CAM SIDE		1
40	2297200	LEVER, CAM LOCK		1
42	2322615	PIN,CAM LOCK,DEPTH COLLAR		1
44	2323401	SCREW-1/4-28X1 1/4 PFH		1
46	2062720	SPRING, DEPTH COLLAR, TRAXX		1
48	2292617	PIN, HINGE		1
50	2295110	PAD, FRICTION		1
52	2321535	COLLAR-STOW SPRING SIDE	*72"* *87"* *100"*	1
54	2325120	PAD-FRICTION, SPRING SIDE	*72"* *87"* *100"*	1
56	2322707	SPRING SILICONE RUBBER	*72"* *87"* *100"*	2
58	2323010	RING-PRESSURE,STOW COLLAR	*72"* *87"* *100"*	1
60	2325121	PAD-FRICTION, CAM SIDE	*72"* *87"* *100"*	1
62	2321536	COLLAR-STOW, CAM SIDE	*72"* *87"* *100"*	1
64	2327910	CAM ARM, STOW COLLAR	*72"* *87"* *100"*	1

▲ Not shown on Parts Diagram.

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

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Item	Part #	Description	Notes	Quantity
66	2327330	BUSHING, CAM ARM	*72"* *87"* *100"*	1
68	2322635	BOLT,SHLDER ¼X1½X10-24 SS	*72"* *87"* *100"*	1
70	2323112	NUT-#10-24 NYLOCK JAM SS	*72"* *87"* *100"*	5
72	2323413	SCREW-#10-24X1 1/8 NYLOCK	**72"* *87"* *100"*	4
74	2201530	COLLAR HALF, COIL CORD	*72"* *87"* *100"*	2
76	2201531	COLLAR ARM, COIL CORD	**72"* *87"* *100"*	1
78	2203424	SCREW-#10-12 x.75 PTH SS	*72"* *87"* *100"*	2
80	2200860	CLAMP-BALL,COIL CORD SLDR	*72"* *87"* *100"*	2
82	830-065	SCREW-#6-32 X 1/2" TORX PH SS	*72"* *87"* *100"*	2
84	2323110	NUT-HEX, 6-32 NYLOK SS	*72"* *87"* *100"*	2
86	2203460	SCREW-#8 X 0.75 PPH HI-LO SS	*72"* *87"* *100"*	2
88	2375444	SPLICER, 6-10 AWG, TIN PLTD		2
90	2208633	RIVET-SNAP, PLASTIC PLUG		2
92	2205412	SHRINK TUBE75 ID X 2"		1
94	2205410	SHRINK-TUBE472 ID X 4"		1
	2327139	MANUAL, RT TERROVA 3 BL		1
	2327141	MANUAL-INSTALL GUIDE RT T3 BL		1
	2294950	INSTRUCTIONS, OBN & REMOTE PAIR		1
	2207130	BRUSHLESS QS SETUP GUIDE		1
	2297165	MANUAL-DISCLAIMER, DWNLOAD INFO		1
	2397115	GUIDE-QUICK REFERENCE IP 4.0		1

▲ Not shown on Parts Diagram.

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

RIPTIDE TERROVA QUEST MOTOR >

> 24/36 Volt 90/115 Thrust Motor Parts Diagram



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

Assembly	Part #	Description	Notes	Quantity
М	2771050	MTR ASY 24/36V 90/115# NS 60"	*60"*	1
N	2771051	MTR ASY 24/36V 90/115# NS 72"	*72"*	1
Р	2771052	MTR ASY 24/36V 90/115# NS 87"	*87"*	1
Q	2771053	MTR ASY 24/36V 90/115# NS 100"	*100"*	1
Z	2991065	SHAFT ASM 60" U2,T3 *60"*	*SHAFT* *60"*	1
AA	2991051	SHAFT ASM 72"INST,RT/T3 *72"*	*SHAFT* *72"*	1
BB	2991052	SHAFT ASM 87"INST,RT/T3 *87"*	*SHAFT* *87"*	1
CC	2991053	SHAFT ASM 100"INS,RT/T3 *100"*	*SHAFT* *100"*	1
DD	2992604	BAG ASSM, PROP HARDWARE		1
Item	Part #	Description	Notes	Quantity
100	421-168	FRONT ENDBELL, PLAIN, SW WHT PNT		1
102	880-032	SEAL-FRONT, BL MOTORS		1
104	×	STATOR ASSEMBLY		1
106	×	ROTOR ASSEMBLY		1
108	×	WASHER BEARING		2
110	*	BALL BEARING		2
112	*	REAR ENDBELL, SW WHT PAINT		1
114	*	CNTR HSG,MCH AFTR SW W.PNT		1
116	*	SEAL		2
118	*	PAPER TUBE - SEAL BORE		1
120	×	0-RING		1
122	*	0-RING		1
124	*	WASHER-WAVE		1
	195-032	CABLE-COM 22GA TWST PAIR 76.25	*60"*	1
126	195-033	CABLE-COM 22GA TWST PAIR 87.63	*72"*	1
120	195-034	CABLE-COM 22G TWST PAIR 102.63	*87"*	1
	195-035	CABLE-COM 22G TWST PAIR 111.38	*100"*	1
	640-472	LEADWIRE RED 8 AWG 78.75"	*60"*	1
120	640-483	LEADWIRE RED 6 AWG 90.13"	*72"*	1
120	640-484	LEADWIRE RED 6 AWG 105.13"	*87"*	1
	640-485	LEADWIRE RED 6 AWG 118.13"	*100"*	1
	640-422	LEADWIRE BLK 8 AWG 78.75"	*60"*	1
120	640-433	LEADWIRE BLK 6 AWG 90.13"	*72"*	1
120	640-434	LEADWIRE BLK 6 AWG 105.13"	*87"*	1
	640-435	LEADWIRE BLK 6 AWG 118.13"	*100"*	1
132	2994130	INVERTER ASM, 24/36V, BL		1
134	979-029	STRAIN RELIEF, BTM MACH		1

▲ Not shown on Parts Diagram.

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

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Item	Part #	Description	Notes	Quantity
136	830-118	SCREW-DBL SEM M5X.8MMX60MM		3
138	2307318	FERRITE BEAD, BL		1
140	9953310	TIE WRAP-8.5"		1
142	830-120	SCREW-M4X .7X8 PPH ZPS		5
144	979-022	STRAIN RELIEF, TOP CAST		1
146	830-121	SCREW-M5 X .8X18 PPH ZPS		2
148	701-010	O-RING, SCREW		4
150	830-115	SCREW-FRONT, TOP, COATED, BL MTR		2
152	830-116	SCREW-FRONT, BTM COATED, BL MTR		2
154	880-042	SEAL-WIRE, BL MTR, PLAIN END		1
156	*	TUBE-1CM, BLK 60", 1.5 X .875	*60"*	1
	×	TUBE-5CM, BLK 72", 1.5 X .75	*72"*	1
	*	TUBE-5CM, BLK 87", 1.5 X .75	*87"*	1
	×	TUBE-5CM, BLK 100", 1.5 X .75	*100"*	1
158	*	PLUG, COMP SHAFT, PAINTED		1
160	2294630	0-RING, 226, 70 SHORE A		1
162	×	SEAL-TOP SHAFT, BRUSHLESS, CLR		1
164	*	SEAL-LWR SHAFT, BRUSHLESS, CLR		1
166	2296432	PLATE, CLAMP, PAINTED		1
168	830-013	SCREW-M5 X .8 FSHCS SS CTD		6
170	2262659	PIN-DRIVE 1" X 3/16" SS 17-4		1
172	2321170	PROP, POWER REAMED		1
174	2091701	WASHER-PROP (LARGE) MAX101		1
176	2093101	NUT-PROP,NYLOC,LG,MX101 3/8 SS		1

▲ Not shown on Parts Diagram. * This part is included in an assembly and cannot be ordered individually.

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RIPTIDE TERROVA QUEST STEERING HOUSING >

> Steering Housing Parts Diagram



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> Steering Housing Parts List

Assembly	Part #	Description	Quantity
G	2997067	STEERING HOUSING ASM, SW	1
Item	Part #	Description	Quantity
180	×	HSG-BTM, STEERING,SW, WHT	1
182	×	PIN-DOWEL, 3/16 X 1/2, SS	4
184	×	SEAL, STEERING HSG SPLIT	1
186	×	GASKET,MOTOR HOUSING, STR	1
188	×	BRG, 55 X 72 X 9MM, SSTL	1
	9950433	TIE WRAP-4" BLACK(#21041)	1
190	×	HOUSING, STEERING TOP, SW	1
192	×	BUSHING, JFM-2023-11	1
194	×	BUSHING,55MM, JFM-5560-50	1
196	×	VENT FILTER, STEERING HOUSING	1
198	×	SEAL, UMBRELLA	1
200	×	SCREW-3/8-16 X 1.75 SHCS SS NYSHD	4
202	×	SCREW-1/4-20X1,SHC,SS,NYSHIELD	4
204	×	MOUNT, LATCH PIN SPRING, RIGHT	1
206	×	MOUNT, LATCH PIN SPRING, LEFT	1
208	×	SEAL, OUTPUT	1
210	×	RETAINING RING, 2 3/8"	1
212	×	GREASE CAP BEARING	1
214	×	PIN-LATCH, OVERMOLDED	1
216	×	CLEVIS, LATCH PIN	2
218	×	SPRING, LATCH PIN	2
220	×	SHROUD,STR WIRE,SW w/MGNT	1
222	×	SCREW-#8-32 X 3/8 MACHINE	2
224	×	PLATE-BACKUP,STR WIRE	1
226	×	SCREW-#6 X .375 PLASTITE SS	2
228	×	SCREW-#8-32 X 1/2 (SS)	7
230	×	GEAR, 30 TOOTH , PINION STR	1
232	×	WASHER-FLAT #6 S/S	4
234	×	SEAL,ID 12MM, OD 20MM, T 5MM	1
236	×	SCREW-#6 X 1/2" THRD FORM,SSTL	6
238	×	0-RING, 3/16 ID X 3/8 0D	4
240	×	SCREW-M5X.8X12,FLANGED BTN HD	4
242	×	COVER, STEER SENSOR GEARS	1
244	*	GEAR-TRIM, 14T	1

▲ Not shown on Parts Diagram.

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

Item	Part #	Description	Quantity
246	×	GEAR-STEER SENSOR, 51T	1
248	*	MAGNET, 1/4 X 1/8	1
250	×	SENSOR,STR,ROTATIONAL,I/T	1
252	×	SEALING WASHER, RUBBER	4
254	×	PLATE, MOTOR MNT, STEERING	1
256	×	STEERING CORD ASM	1
258	×	MOTOR, 24 VDC, 1:130 GEARBOX	1
260	×	BUSHING, OUTPUT TUBE, LWR	2
262	×	WASHER-THRUST, OUTPUT TUBE	1
264	×	GEAR,78 TOOTH,OUTPUT TUBE	1
266	×	HUB, STEERING STOP, ANODIZED	1
268	×	OUTPUT TUBE, ANDIZED	1
270	×	PIN-DOWEL, 1/4" X 5/8" SS	2
	×	O-RING, SAE-010, BUNA-N	1
	×	SCREW-1/4-20X.313 PLASTIC	1

Not shown on Parts Diagram.
 This part is included in an assembly and cannot be ordered individually.



> Mount Parts List

Assembly	Part #	Description	Notes	Quantity
J	2994948	BAG ASM, INSTINCT, T3 BL HDW		1
К	×	RT TERROVA QUEST CONTROL BOARD		1
	2992372	STABILIZER BWMT ES TM w/CTN	*72"* *87"* *100"*	1
Item	Part #	Description	Notes	Quantity
310	2321961	BASE PLATE, MACHINED, SW		1
312	2324065	PCBA, TERROVA 3 BRUSHLESS		1
314	2200625	LEADWIRE ASM, 8AWG, ULT 2		1
316	2202919	STRAIN RELIEF, POWER		1
318	2323405	SCREW-1/4-20 X 1/2" MCH SS		2
320	2203440	SCREW-#4-40 X 1/4 PPH SS		6
322	2373487	SCREW-#8-32 X 3/4" PPH MACH SS		4
324	2040721	CLAMP-CABLE 3/8"		2
326	2052510	CABLE CLAMP, 3/16", NYLON		3
328	2073414	SCREW-#6-32 X .375 PPH SS		5
330 🔺	2323442	SCREW-#10-24X 3/8,BHCS,SS		1
332	2323504	BOLT-SHDR,5/16X1/2X1/4-20		2
334	2322717	SPRING, RAIL EXTENSION		2
336	2320411	RELEASE LEVER, SW		1
338	2320231	COVER,RELEASE LEVER,SW		1
340	2383446	SCREW-#8-16 X .50" PLASTITE SS		2
342	2323421	SCREW-#8-18 X 1/2" PFH SS TY B		1
344	2998615	CARRIER-MGNT,LEVER w/MGNT		1
346	2327335	BUSHING GFI-0506-03		2
348	2321709	WASHER, 3/8 FLAT, NYLON		2
350	2323503	BOLT-SHDR,5/16X1/4X1/4-20		1
352	2323504	BOLT-SHDR,5/16X1/2X1/4-20		1
354	2323955	RAMP, DSC/NS, RIGHT		1
356	2323956	RAMP, DSC/NS, LEFT		1
	×	BUSHING, RAMP PIVOT		2
360	2325115	PAD, RUBBER REST, BLACK		4
362	2321706	WASHER-FLAT #8 .50 OD/.188 SS		8
364	2323412	SCREW-#8-18 X .25 PPH SS TY B		8
366	2324706	INSERT-MOTOR RAMP, METAL, SS		2
368	2324220	SIDE RAIL,FORMED,LEFT,SS		1
370	2324221	SIDE RAIL,FORMED,RIGHT,SS		1
372	2323620	WEAR BAR, SIDE RAIL, PLSTC		2
374	2332100	SCREW-#8-32 X 3/8 MACHINE		4
376	2323111	NUT-#8-32 NYLOCK JAM SS		4

▲ Not shown on Parts Diagram.

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

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Item	Part #	Description	Notes	Quantity
378	2321700	WASHER #10 SS		2
380	2323422	SCREW-#10-24 X .25" PPH SS MCH		2
382	2323300	PIVOT, RAMP		2
384	2323444	SCREW-5/16-18 X 1.75 SHCS,SS		2
386	2223100	NUT-5/16-18 NYLOCK S/S		2
388	2326556	HOUSING-CONTROL, WHITE		1
390	2372103	SCREW-#6 X .375 PLASTITE SS		2
392	2332104	SCREW-1/4-20 X 5/8 S/S		6
394	2323941	SIDEPLATE, LEFT, SW		1
396	2323946	SIDEPLATE, RIGHT, SW		1
398	2325533	DECAL, SIDEPLATE, LEFT SW		1
400	2325532	DECAL, SIDEPLATE, RIGHT SW		1
402	2325551	DECAL-PWR SWTCH, SW, WHT, T3		1
404	2321710	WASHER, RUBBER MOUNT		6
406	2323440	SCREW-3/8-16 X 2 1/2 HHCS SS		6
408	2371796	BACKUP BAR 3/16 X 1 X 2		6
410	2383122	NUT 3/8-16 NYLON INST LOCKNUT		6
412	2378608	ANTI SEIZE TUBE, 4CC, TALON		1
418	2323211	STOP-DEAD, DEPLOY		2
420	2383469	SCREW-#10-24 X 3/4,SS,BHCS		7
422	2320825	BRACKET, COIL CORD		2
	2322905	MOUNT, CABLE TIE		1
424	2991245	COIL CORD ASM 45" - 60"	*60"*	1
	2991246	COIL CORD ASM 72"	*72"*	1
	2991247	COIL CORD ASM 87"	*87"*	1
	2991248	COIL CORD ASM 100"	*100"*	1
426	2323210	STEERING STOP, UHMWPE		2
428	2323443	SCREW-#8-32X3/8, SS, BHCS		4
430	2207311	BUSHING, STEER HSG PIVOT		2
432	2322605	PIN, PIVOT		1
434	2373013	E-RING, EXTERNAL SS .625, HNDL		2
436	2294610	SEAL, PCBA TRMNL GRAY .215		2
438	2294611	SEAL, PCBA TERMNL BLK .270		2
440	830-123	SCREW-M4X .7X8MM HEX DBL		4
442	2205412	SHRINK TUBE75 ID X 2"		1
444	2206721	PLUG-WIRE, ROUND	*87"* *100"*	1
	9950433	TIE WRAP-4" BLACK(#21041)		1
	2325560	DECAL,STOW,TERROVA 3 BL		1
	2006819	LABEL-CARTON "CAUTION HEAVY"		1

▲ Not shown on Parts Diagram.

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

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