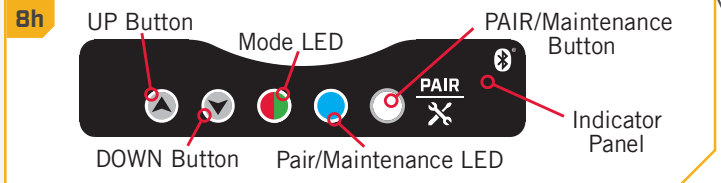


8

- h. Take the Hydraulic Pump out of Maintenance Mode by pressing the Pair/Maintenance  button on the Indicator Panel, located on the Pump Assembly. The Pump will beep three times consecutively to confirm that the Pump is in Maintenance Mode. The Pair/Maintenance LED  will turn off. The Hydraulic Pump will be able to then be controlled by any Paired devices and Remotes once Maintenance Mode is disabled.

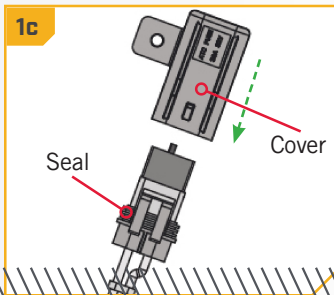
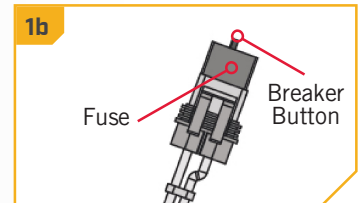
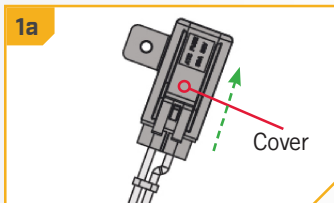


RESETTING THE FUSE

In the event that you need to reset the factory installed 30 amp Fuse, follow the instruction below. The fuse should be located no more than 7 inches from the Positive Battery terminal on the Positive Lead (+). If an alternate Fuse is installed, please refer to directions by your Fuse manufacturer to correctly reset it.

1

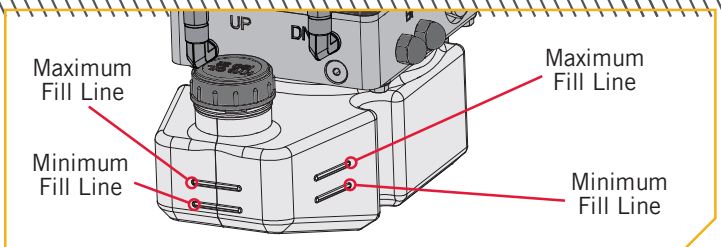
- a. Remove the protective cover from the Fuse Assembly, exposing the 30 amp Fuse.
- b. Reset the Fuse by pushing the Breaker Button to engage the Fuse.
- c. Ensure that the Seal is in place, and replace the protective housing on the Fuse Assembly. Make sure that the Cover snaps together to provide a watertight seal.



CHECKING HYDRAULIC FLUID LEVELS

The Raptor Pump Reservoir has a minimum and maximum hydraulic fluid level marked on the side of the Pump Reservoir. Maintaining the proper fluid level allows for the proper pump operation. Minn Kota recommends using Biodegradable ISO 32 Marine Hydraulic Fluid. Periodically check fluid levels to make sure that the level of Hydraulic fluid is adequate for pump operation.

Note the color of the hydraulic fluid. If over time the hydraulic fluid becomes discolored, it may be a sign of contamination. Change the fluid and check the seal on the Pump Reservoir, the seal between the Hydraulic hoses and the Hydraulic fittings on the Manifold and the Hydraulic Hoses and the Hydraulic Cylinder on the anchor to ensure that the Hydraulic Circuit remains sealed.



SERVICE & MAINTENANCE

REPLACING THE SPIKE

The Spike for your Raptor comes with a lifetime guarantee. See the Warranty section of the manual for further details. In order to replace the Spike, you must be able to safely reach the top of the Raptor anchor. It is recommended to place the Raptor in Maintenance Mode when performing service or maintenance work on the Raptor. See the "Maintenance Mode and Opening the Bypass Valves" section of this manual to place the Raptor in Maintenance Mode before beginning any work on replacing the Spike. Placing the Raptor in Maintenance mode will also allow the Raptor to move freely so that the hardware holding the Spike in place can be accessed. When work is complete, take the Raptor out of Maintenance Mode to return the product to normal operation. In the event that the Spike needs to be replaced, follow the direction below to adjust the bolts and replace the Spike.

NOTICE: The Spike Replacement Kit for the 8 foot Raptor is 2772019. The Spike Replacement Kit for the 10 ft Raptor is 2772020.

TOOLS AND RESOURCES REQUIRED

- Pin Punch 1/8"
- Hammer
- (2) 7/16" Socket Wrenches

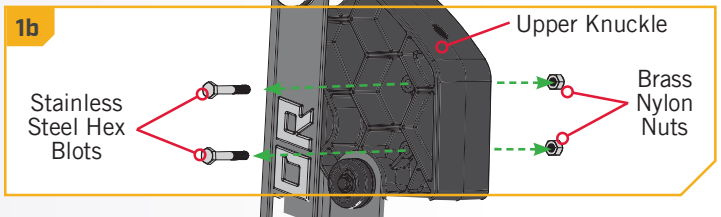
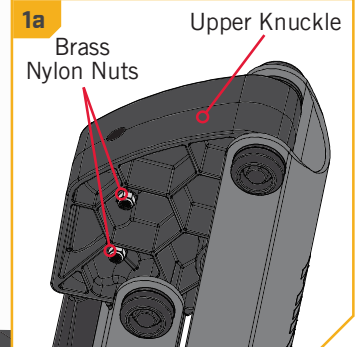
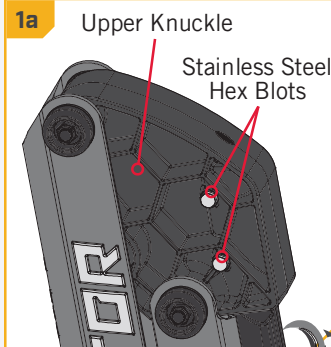
INSTALLATION

1

CAUTION

Before beginning any maintenance work on the Raptor, that requires the Raptor to be movable, place the Raptor in Maintenance Mode. Failure to place the Raptor in Maintenance Mode may result in shock, unexpected operation and or injury. See the "Maintenance Mode and Opening the Bypass Valves" section on this manual for instruction. Do not remove power from the Raptor while in Maintenance Mode.

- The Upper Knuckle, located at the top of the Raptor, contains two 1/4 - 20 X 1.75 inch Stainless Steel Hex Bolts and two Brass Nylon Nuts that retain the Spike.
- To replace the Spike, take two 7/16 inch socket wrenches and place one on the head of one of the Stainless Steel Bolts. Hold the first Socket Wrench in place and place the second Socket Wrench on the Brass Nylon Nut holding the Hex Bolt in place. While holding the first wrench, turn the second wrench in a counterclockwise direction to loosen and remove the Nut. Pull the Hex Bolt out.
- Repeat the process with the two wrenches on the second Hex Bolt.



NOTICE: It may be necessary to use a socket extension or a deep socket because the Hex Bolts and Brass Nylon Nuts are recessed into the Upper Knuckle.

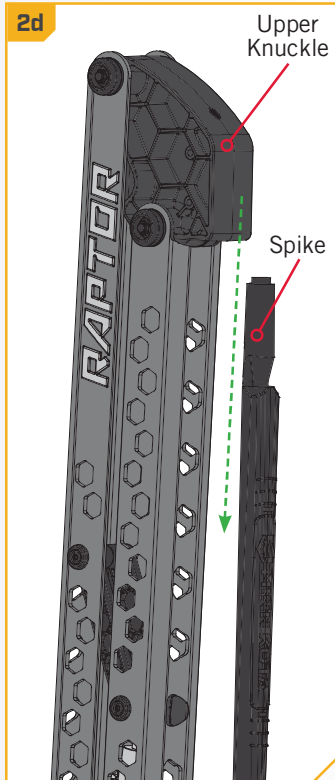
CAUTION

The Raptor may become slippery when wet. Be careful to not slip and fall when working with the Raptor. Do not lean on the Raptor as a support.

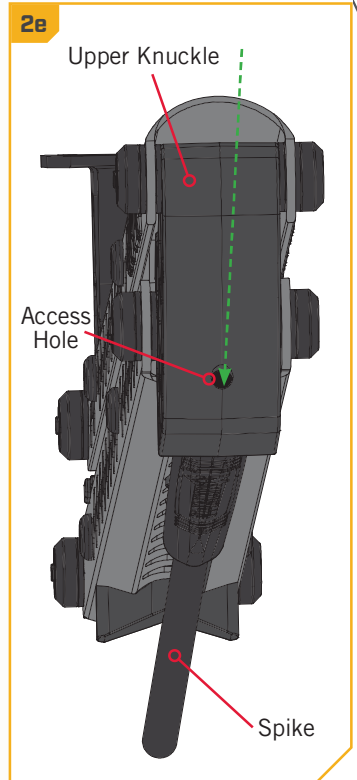
2

- d. With the Hex Bolts removed, the Spike should slide out freely. Pull the spike out.
- e. If the Spike does not slide out, there is an Access Hole on the top of the Upper Knuckle. Use an 1/8 inch Pin Punch through the Access Hole and a Hammer to tap the Spike out if it is wedged in place.

2d



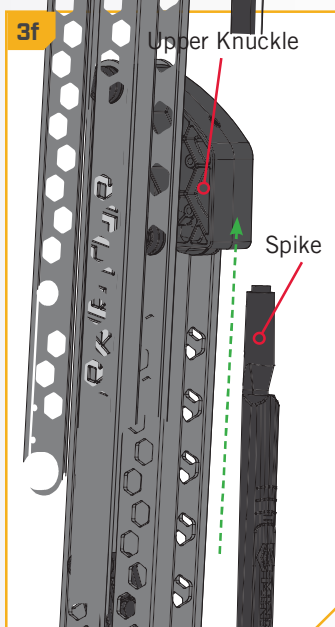
2e



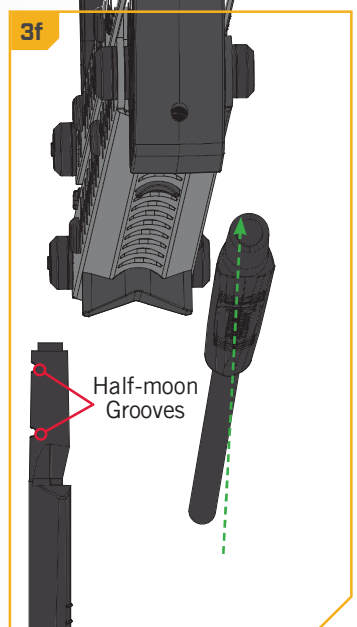
3

- f. With the Spike removed, take the new Spike and place it back into the Upper Knuckle. Note that the top of the Spike has two a Half-moon Grooves perpendicular to the length of the Spike. This helps orientate the Spike into the Upper Knuckle in the correct direction to be captured by the Hex Bolts. Replace the Spike and align the holes in the top of the Spike with the Half-moon Grooves on the top of the Spike. The logo on the Spike molding should be facing away from the Raptor.

3f



3f



SERVICE & MAINTENANCE

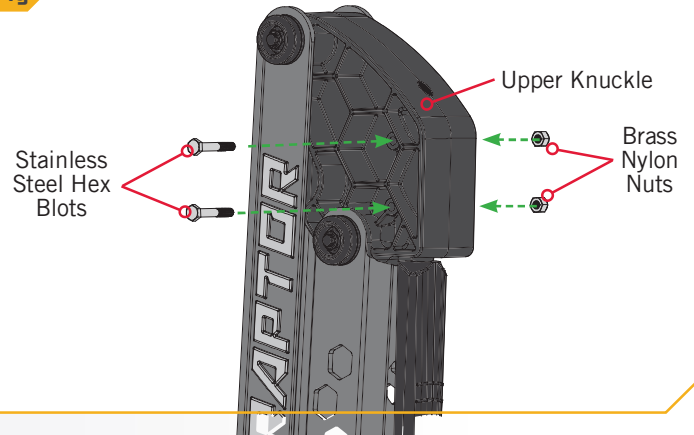
4

- g. With the Spike in place, take the two 1/4 - 20 X 1.75 inch Stainless Steel Hex Bolts and replace them on the Upper Knuckle. Be sure to correctly capture the Spike as the Bolts pass through the Upper Knuckle, past the Spike grooves and exit the other side of the Upper Knuckle.

NOTICE: If a Spike Replacement Kit was purchased, use the two new Hex Bolts and two Brass Nylon Nuts from the Kit to reinstall a new Spike.

- h. Take the Brass Nylon Nuts and place one on each of the Hex Nuts.
- i. Using two 7/16 inch socket wrenches to tighten the Nuts and Bolts back in place. One Wrench is placed on the head of one of the Stainless Steel Bolts. Hold the first Socket Wrench in place and place the second Socket Wrench on the Brass Nylon Nut holding the Hex Bolt in place. While holding the first wrench, turn the second wrench in a clockwise direction to tighten to 60 in-lbs and secure the Nut.
- j. Repeat the process with the two Socket Wrenches on the second Hex Bolt.

4g



NOTICE: Check the Spike periodically for any wear and fractures. Replace the Spike when excessive wear and/or fractures are present.

TROUBLESHOOTING

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

1. Do I need a separate battery to operate the Raptor?
 - No. Minn Kota recommends connecting your Raptor to the starting/cranking battery of your boat.
2. How do I determine where and how to mount the Raptor?
 - This will vary from one boat to the next. It is important to check for proper steering and trimming clearances when laying out your installation. See the "Installation" section of this Manual for detailed instructions.
3. Which side of the boat do I want to install the Raptor?
 - The Raptor can be installed on either side or both sides of the boat. Review the mounting considerations in the "Installation Instructions" section of this document to make sure that the Raptor can be installed at the intended location.
4. How do I know when I should use a mounting adapter bracket?
 - Some boats have irregular-shaped transoms and the standard Raptor mounting bracket cannot be mounted directly to the transom. In other cases there are other accessories such as trim tabs, transducers, poling platforms, etc., that may require additional clearance. Review the mounting considerations in the Installation section of this manual and browse the Raptor adapter brackets online at minnkotamotors.com to select the proper application for your boat.

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

NOTICE: For additional trouble shooting information, including instructional videos, please visit minnkotamotors.com.

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 on-line directly from our website at minnkotamotors.com. Orders confirmed by 12 Noon Central Time, with Overnight Shipping selected, should ship the same business day if the parts are in stock. All other orders should ship within the next 3 business days, depending on the shipment method chosen, and if the parts are in stock.



Frequently Asked Questions

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



Call Us (for U.S. and Canada)

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



Email Us

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



Authorized Service Centers

Minn Kota has over 800 authorized service providers in the United States and Canada where you can purchase parts or get your products repaired. Please visit our Authorized Service Center page on our website to locate a service provider 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 Raptorss are not subject to the disposal regulations EAG-VO (electric devices directive) that implements the WEEE directive. Nevertheless never dispose of your Minn Kota Raptor 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

▶ Raptor

CONTROLLER : 2354041 - WITHOUT ACTIVE ANCHORING
2354040 - WITH ACTIVE ANCHORING

- IC: 4397A-RAPTORCTR
- FCC ID: T62-RAPTORCTR

REMOTE : 2994156

- IC: 4397A-RAPTORREM
- FCC ID: T62-RAPTORREM



R209-J00391



R209-J00392

COMPLIANCE STATEMENTS

FCC COMPLIANCE

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

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

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

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

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

INDUSTRY CANADA COMPLIANCE

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

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

ENVIRONMENTAL RATINGS

Ambient operating temperature range: -10C to 50C

Ambient operating humidity range: 5% to 95%

Maximum operating altitude: 10,000 feet

RADIO OPERATION

CONTROLLER

- Frequency band: 2402 MHz to 2480 MHz
- Maximum RF power transmitted: +10 dBm

REMOTE

- Frequency band: 2402 MHz to 2480 MHz
- Maximum RF power transmitted: +10 dBm

TRADEMARKS

Minn Kota®, Humminbird®, i-Pilot® and i-Pilot® Link™ are trademarked by or registered trademarks of Johnson Outdoors Marine Electronics, Inc.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Johnson Outdoors Inc is under license. Other trademarks and trade names are those of their respective owners.

Android is a trademark of Google LLC.

PARTS DIAGRAM & PARTS LIST

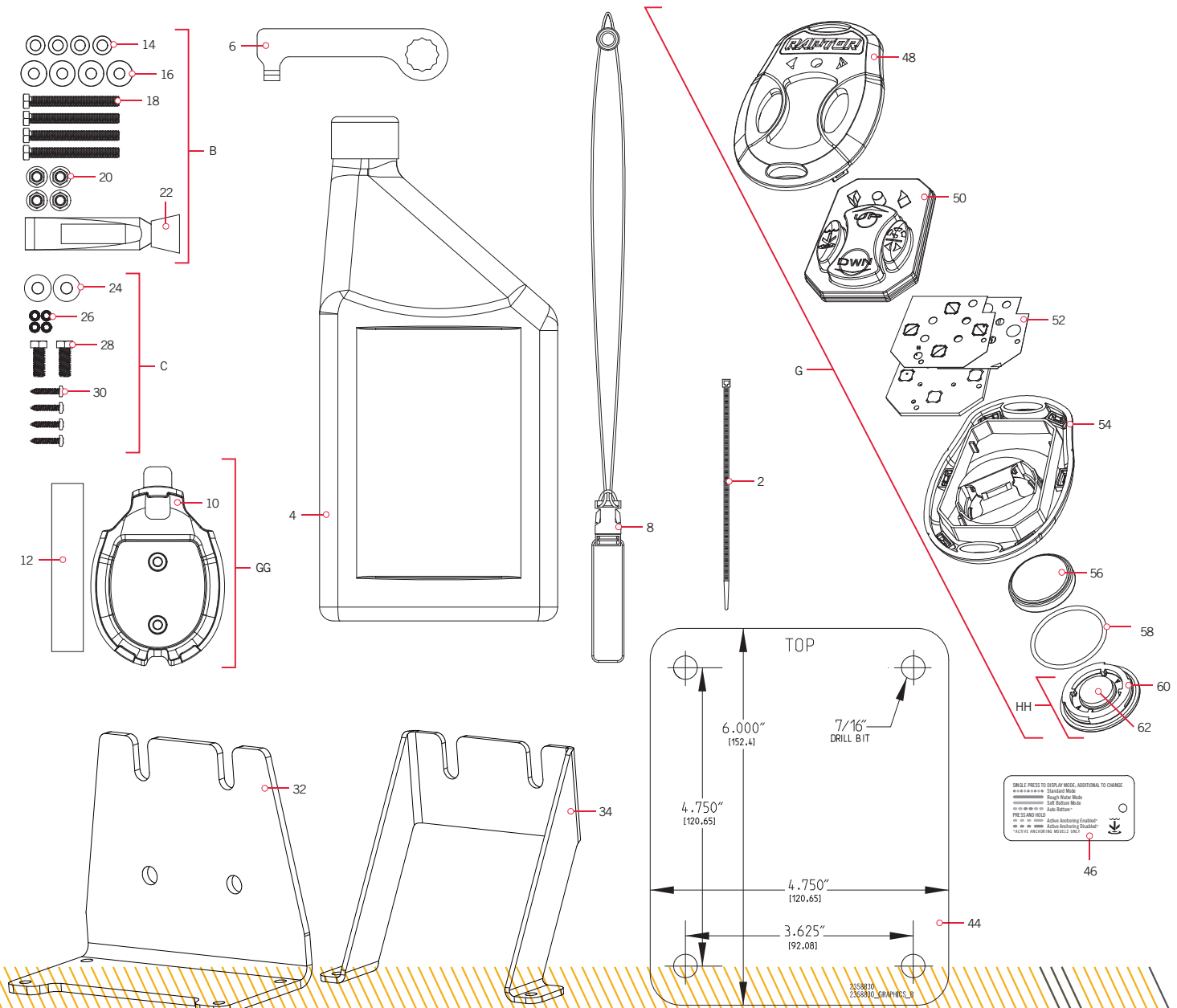
RAPTOR

12 VOLT - 8'/10' RAPTOR

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.

RAPTOR INSTALLATION HARDWARE AND REMOTE >

> Installation Hardware & Remote Parts Diagram



PARTS DIAGRAM & PARTS LIST

► Installation Hardware & Remote Parts List

Assembly	Part #	Description	Notes	Quantity
B	2994943	BAG, ASM, RAPTOR HWD		1
C	2994944	BAG ASM, RAPTOR PUMP HDW		1
G	2994156	TRANSMITTER ASM, RAPTOR		2
GG	2771829	BRACKET,DASH MNT HLDR/TAPE KIT		1
HH	2886422	COVER, BATTERY COMPARTMENT ASY		1
Item	Part #	Description	Notes	Quantity
2	2376310	TIE WRAP-DH35 11.5"		1
4	2357700	OIL-HYDRAULIC, QUART, RPTR		1
6	2358800	WRENCH-PRESSURE, RAPTOR		1
8	2390801	LANYARD, REMOTE		1
10	2371829	BRACKET,RMT DASH MNT HLDR	*ASSEMBLY GG*	1
12	2375104	TAPE,MNTG,FOAM ULINE #S-10131	*ASSEMBLY GG*	1
14	2371758	WASHER-3/8 HD FLAT SS	*ASSEMBLY B*	4
16	2371759	WASHER-3/8 HD FENDER SS	*ASSEMBLY B*	4
18	2383421	SCREW-3/8-16X3 1/2 HHCS SS	*ASSEMBLY B*	4
20	2353102	NUT-3/8-16 FLANGE,NYLOK,SS	*ASSEMBLY B*	4
22	2378608	ANTI SEIZE TUBE, 4CC, TALON	*ASSEMBLY B*	1
24	2351735	WASHER-3/8" BELLEVILLE SS	*ASSEMBLY C*	2
26	2351733	WASHER-#10 BELLEVILLE SERRATED	*ASSEMBLY C*	4
28	2353412	SCREW-3/8-16 X 1.0" HHCS SS	*ASSEMBLY C*	2
30	2353420	SCREW-#10-16X1.00 TY AB SS	*ASSEMBLY C*	4
32	2351933	BRACKET-MOUNTING, PUMP		1
34	2351934	BRACKET-REINFORCING		1
36	2357141 ▲	INSTALL. INSTRUCTIONS,RPTR		1
38	2357142 ▲	DISCLAIMER-DOWNLOAD,MANUAL		1
40	2357140 ▲	MANUAL, RAPTOR ANCHOR		1
42	2006819 ▲	LABEL-CARTON , "CAUTION HEAVY"		1
44	2358830	RAPTOR MOUNTING TEMPLATE		1
46	2354110	TAG, REMOTE, RAPTOR		1
48	✖	CASE-REMOTE, TOP, TALON 3	*ASSEMBLY G*	1
50	✖	KEYPAD-REMOTE, TALON 3	*ASSEMBLY G*	1
52	✖	CTRL BOARD,TRNSMTR,TALON 3	*ASSEMBLY G*	1
54	✖	CASE-REMOTE, BTM, TALON 3	*ASSEMBLY G*	1
56	✖	BATTERY CR2450	*ASSEMBLY G*	1
58	2376941	GASKET,BATTERY COMPARTMENT	*ASSEMBLY G*	1
60	✖	COVER, BATTERY COMPRT(SUB)	*ASSEMBLY G* *ASSEMBLY HH*	1
62	✖	PAD-FOAM, I-PILOT 1.5	*ASSEMBLY G* *ASSEMBLY HH*	1

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

▲ Not shown on Parts Diagram.

RAPTOR ANCHOR

[illegible]

PARTS DIAGRAM & PARTS LIST

› Raptor 8ft Parts List

Assembly	Part #	Description	Notes	Quantity
L	2777301	BUSHING KIT, MAIN, RAPTOR	*ASSEMBLY S QTY 2*	1
N	2777303	BUSHING KIT, CENTER, 8' RAPTOR	*8FT*	1
Q	2772019	SPIKE KIT 8' RAPTOR	*8FT*	1
S	2777300	UPPER KNUCKLE KIT, RAPTOR		1
T	2778411	CYLINDER KIT, RAPTOR		1
U	2771400	HYDRAULIC HOSE REP KIT, RAPTOR		1
V	2771401	HYDRAULIC HOSE EXT KIT, RAPTOR		1
W	2776512	RAPTOR UPPER ARM, 8', SILVER	*8FT*	1
X	2776513	RAPTOR UPPER ARM, 8', BLACK	*8FT*	1
Y	2776514	RAPTOR UPPER ARM, 8', WHITE	*8FT*	1
Z	2776515	RAPTOR UPPER ARM, 8', RED	*8FT*	1
Item	2776515	RAPTOR UPPER ARM, 8', RED	Notes	Quantity
70	2351908	BRACKET, LOWER MOUNT, PAINTED		1
72	2357310	BUSHING, PIVOT LINK, ANODIZED		8
74	2357301	BUSHING, FLANGE	*ASSEMBLY S* *ASSEMBLY L QTY 8*	16
76	2356513	EXTRUSION-OUTER, BLACK 8'	*BLACK* *8FT* *ASSEMBLY X*	1
	2356512	EXTRUSION-OUTER, CLEAR 8'	*SILVER* *8FT* *ASSEMBLY W*	1
	2356514	EXTRUSION-OUTER, WHITE 8'	*WHITE* *8FT* *ASSEMBLY Y*	1
	2356515	EXTRUSION-OUTER, RED 8'	*RED* *8FT* *ASSEMBLY Z*	1
78	2356523	EXTRUSION-INNER, BLACK 8'	*BLACK* *8FT*	1
	2356522	EXTRUSION-INNER, CLEAR 8'	*SILVER* *8FT*	1
	2356524	EXTRUSION-INNER, WHITE 8'	*WHITE* *8FT*	1
	2356525	EXTRUSION-INNER, RED 8'	*RED* *8FT*	1
80	2353500	BOLT-3/8-16 X 4.25" HEX HD SS	*ASSEMBLY S* *ASSEMBLY L QTY 2*	4
82	2351734	WASHER-3/8" FLAT SS	*ASSEMBLY S* *ASSEMBLY L QTY 4*	8
84	2263115	NUT-NYLOK JAM 3/8-16 UNC SS	*ASSEMBLY S* *ASSEMBLY L QTY 2*	4
86	2351721	SPACER, COMPRESSION SHIM		2
88	2355125	BUMPER, SPIKE LOWER		1
90	2357302	BUSHING, CENTER SUPPORT	*ASSEMBLY T QTY 4* *ASSEMBLY N*	8
92	2352610	PIN, CYLINDER BASE, RAPTOR	*ASSEMBLY N* *ASSEMBLY T*	4
94	2353403	SCREW-1/4-20 FLANGED BTTN HEAD	*ASSEMBLY T QTY 4* *ASSEMBLY N*	8
96	2358411	CYLINDER-HYDRAULIC, SS	*ASSEMBLY T*	1
98	2354600	FITTING-HYDRAULIC	*ASSEMBLY T*	2
100	2351400	HOSE, HYDRL ASM #JO-HOH-W-02-O	*ASSEMBLY V* *ASSEMBLY U*	2
102	2376310	TIE WRAP-DH35 11.5"	*ASSEMBLY T*	1
104	2352920	GROMMET-THRU HULL		2
106	2350207	CAP-VINYL, .562" X 1/2" BLACK		1

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

▲ Not shown on Parts Diagram.

PARTS DIAGRAM & PARTS LIST

Item	2776515	RAPTOR UPPER ARM, 8', RED	Notes	Quantity
108	2350208	CAP-VINYL, .562" X 1/2" GREEN		1
110	2355120	BUMPER, SPIKE UPPER		1
112	2352300	SUPPORT, CENTER CYLINDER	*ASSEMBLY N*	2
114	2351926	BRACKET, UPPER KNUCKLE, MACH	*ASSEMBLY S*	1
116	2351930	BRACKET, HOSE ROUTE LOWER	*ASSEMBLY Z* *ASSEMBLY Y* *ASSEMBLY X* *ASSEMBLY W*	1
118	2358600	RIVET-POP, 1/8"	*ASSEMBLY Z* *ASSEMBLY Y* *ASSEMBLY X* *ASSEMBLY W*	4
120	2352019	SPIKE, 8', .750" OVERMOLDED	*8FT* *ASSEMBLY Q*	1
122	2353501	BOLT-1/4-20 X 1.75 HEX SS	*ASSEMBLY S* *ASSEMBLY Q*	2
124	2353110	NUT-1/4-20 BRASS NYLON INSERT	*ASSEMBLY S* *ASSEMBLY Q*	2
126	2355642	DECAL, MINN KOTA RAPTOR BLK	*WHITE* *AA* *ASSEMBLY Z* *ASSEMBLY X* *ASSEMBLY W*	1
	2355640	DECAL, MINN KOTA RAPTOR WHT	*BLACK* *RED* *SILVER* *ASSEMBLY Y*	1
128	2355641	DECAL, RAPTOR SIDE	*ASSEMBLY Z* *ASSEMBLY Y* *ASSEMBLY X* *ASSEMBLY W*	2
130	2357700	NRA-OIL-HYDRAULIC, QUART, RPTR	*ASSEMBLY V* *ASSEMBLY U* *ASSEMBLY T*	1
132	2350800	UNION, STRGHT, JIC MALE-MALE	*ASSEMBLY V* *NOT INCLUDED FROM THE FACTORY*	2

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

▲ Not shown on Parts Diagram.

PARTS DIAGRAM & PARTS LIST

► Raptor 10ft Parts Diagram

