

PONTOON HAND CONTROL

BOW-MOUNT TROLLING MOTOR

Installation Instructions

CE MASTER USER MANUAL (FOR CE/C-TICK CERTIFIED MODELS)

Conforms to 89/336/EEC (EMC) under standards EN 55022A, EN 50082-2 since 1996 LN V9677264

THANK YOU

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

REMEMBER TO KEEP YOUR RECEIPT AND IMMEDIATELY REGISTER YOUR TROLLING MOTOR.

NOTE: Do not return your Minn Kota motor to your retailer. Your retailer is not authorized to repair or replace this unit. You may obtain service by: calling Minn Kota; returning your motor to the Minn Kota Factory Service Center; sending or taking your motor to any Minn Kota authorized service center. A list of authorized service centers is available on our website. Please include proof of purchase, serial number and purchase date for warranty service with any of the above options.

Please thoroughly read this user manual. Follow all instructions and heed all safety and cautionary notices below. 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.

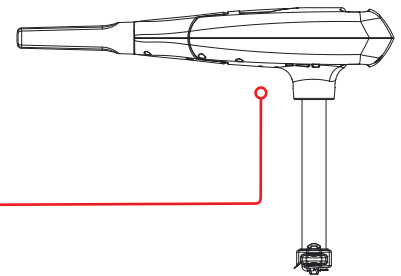
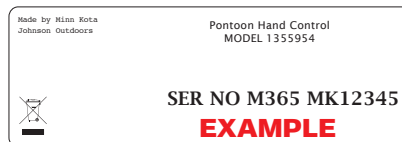
ATTENTION: Never run the motor out of the water, as this may result in injuries from the rotating propeller. The motor should be disconnected from the power source when it is not in use or is off the water. When connecting the power-supply cables of the motor to the battery, ensure that they are not 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.

CAUTION: 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 2,5m/sec².

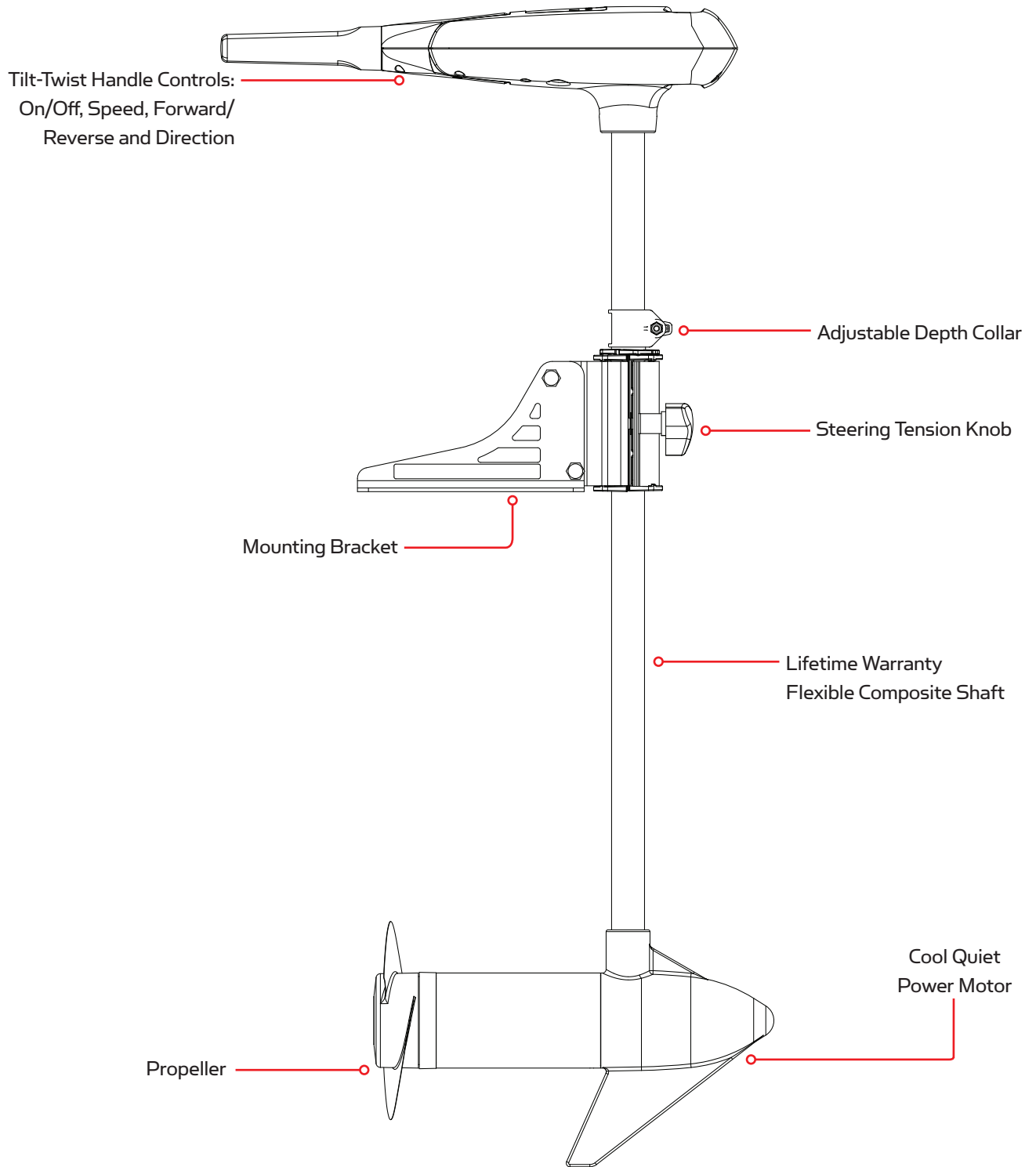
LOCATING YOUR SERIAL NUMBER

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 in the space provided below so that you have it available for future reference.

The serial number on your Pontoon Hand Control Motor is located under the tiller handle.



FEATURES



Specifications subject to change without notice.

*This diagram is for reference only and may differ from your actual motor.

MOUNT INSTALLATION

TOOLS AND RESOURCES REQUIRED:

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

1. Before you proceed, determine the desired mounting location for the motor. It is recommended that the motor be mounted as close to the center line of the boat as possible as seen below. Verify that there are no obstacles that the control box, handle, or prop might hit while in use that would restrict steering or cause damage to the motor.

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

2. Verify the area under the chosen mounting location is clear and safe to drill through.
3. Once in position, mark a minimum of four of the six mounting holes (two on each side). Drill through the marked holes using a 9/32 drill bit.

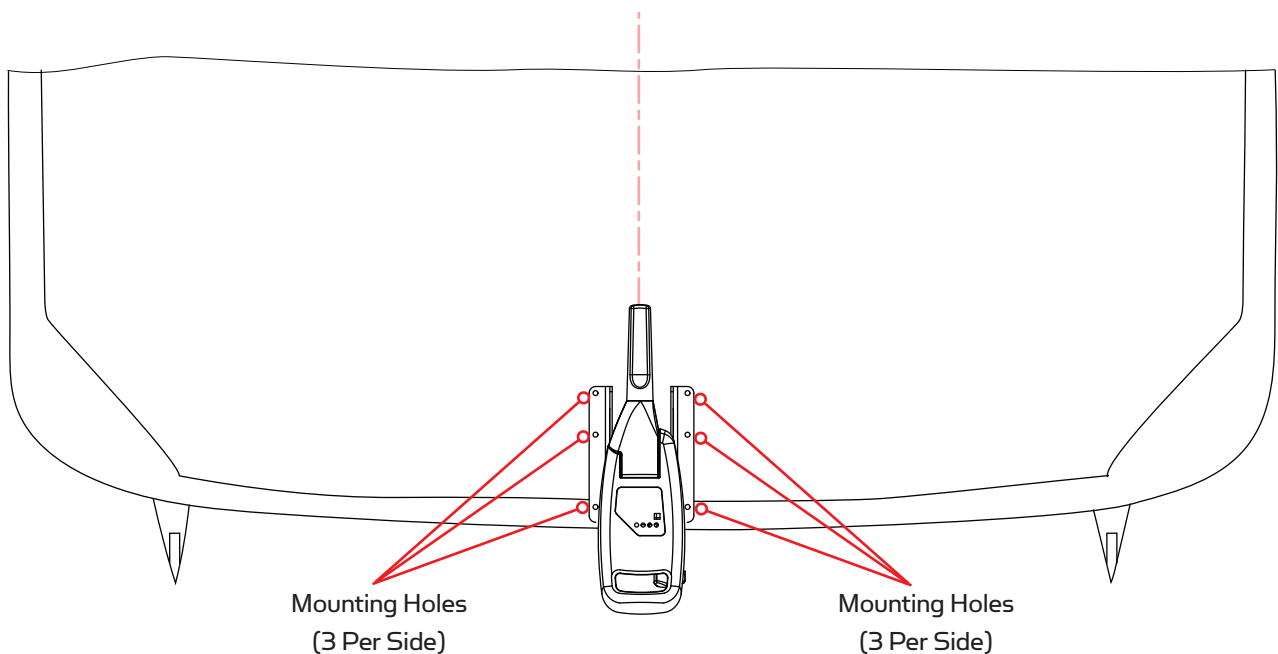
NOTE: The four front mounting holes uses the same bolt pattern as used on Minn Kota quick release plates MKA-21, RTA-17, MKA-16-02 and MKA-32. The pontoon mount may be attached to any of these for your mounting convenience. Deploy the motor and remove the motor assembly from the mount by loosening the Steering Tension Knob and opening the door.

4. Mount the plate to the bow through the drilled holes using the 1/4"-20 x 2" bolts, washers and nuts provided.

NOTE: When setting the depth be sure the top of the motor is submerged at least 12" to avoid churning or agitation of surface water. The propeller must be completely submerged.

WARNING:

When raising or lowering motor, keep fingers clear of all hinge and pivot points and all moving parts.



BATTERY WIRING & INSTALLATION

BOAT RIGGING & PRODUCT INSTALLATION

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

CAUTION: These guidelines apply to general rigging to support your Minn Kota motor. Powering multiple motors or additional electrical devices from the same power circuit may impact the recommended conductor gauge and circuit breaker size. If you are using wire longer than that provided with your unit, follow the conductor gauge and circuit breaker sizing table below. If your wire extension length is more than 25 feet, we recommend that you contact a qualified marine technician.

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.

Reference:

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

CONDUCTOR GAUGE AND CIRCUIT BREAKER SIZING TABLE

Motor Thrust / Model	Max Amp Draw	Circuit Breaker	Wire Extension Length *				
			5 feet	10 feet	15 feet	20 feet	25 feet
30 lb.	30	50 Amp @ 12 VDC	10 AWG	10 AWG	8 AWG	6 AWG	4 AWG
40 lb., 45 lb.	42		10 AWG	8 AWG	6 AWG	4 AWG	4 AWG
50 lb., 55 lb.	50	60 Amp @ 12 VDC	8 AWG	6 AWG	4 AWG	4 AWG	2 AWG
70 lb.	42	50 Amp @ 24 VDC	10 AWG	10 AWG	8 AWG	8 AWG	6 AWG
80 lb.	56	60 Amp @ 24 VDC	8 AWG	8 AWG	8 AWG	6 AWG	6 AWG
101 lb.	46	50 Amp @ 36 VDC	8 AWG	8 AWG	8 AWG	8 AWG	8 AWG
Engine Mount 101	50	60 Amp @ 36 VDC	8 AWG	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

This conductor and circuit breaker sizing table is only valid for the following assumptions:

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.

***Wire Extension Length refers to the distance from the batteries to the trolling motor leads.**

BATTERY WIRING & INSTALLATION

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 ampere 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.

Advice Regarding Batteries:

- 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.
- It is highly recommended that a circuit breaker or fuse be used with this trolling motor. 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.

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.

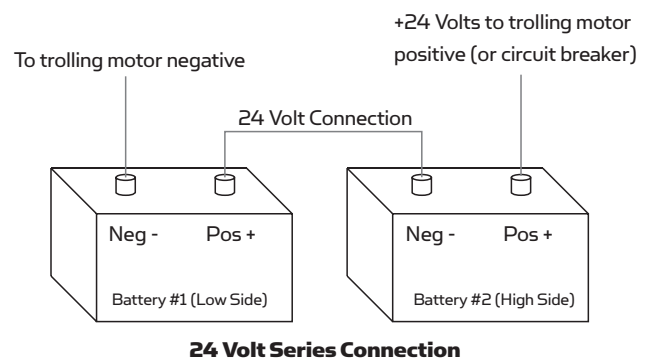
CAUTION:

For safety reasons, disconnect the motor from the battery/batteries when the motor is not in use or while the battery/batteries are being charged.

CONNECTING THE BATTERIES IN SERIES (IF REQUIRED FOR YOUR MOTOR)

24 VOLT SYSTEMS:

1. Make sure that the motor is switched off (speed selector on “O”).
2. Two 12 volt batteries are required.
3. The batteries must be wired in series, only as directed in wiring diagram, to provide 24 volts.
 - a. Connect a connector cable to the positive (+) terminal of battery 1 and to the negative (-) terminal of battery 2.
 - b. Connect positive (+) red motor lead to positive (+) terminal on battery 2.
 - c. Connect negative (-) black motor lead to negative (-) terminal of battery 1.
4. 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.

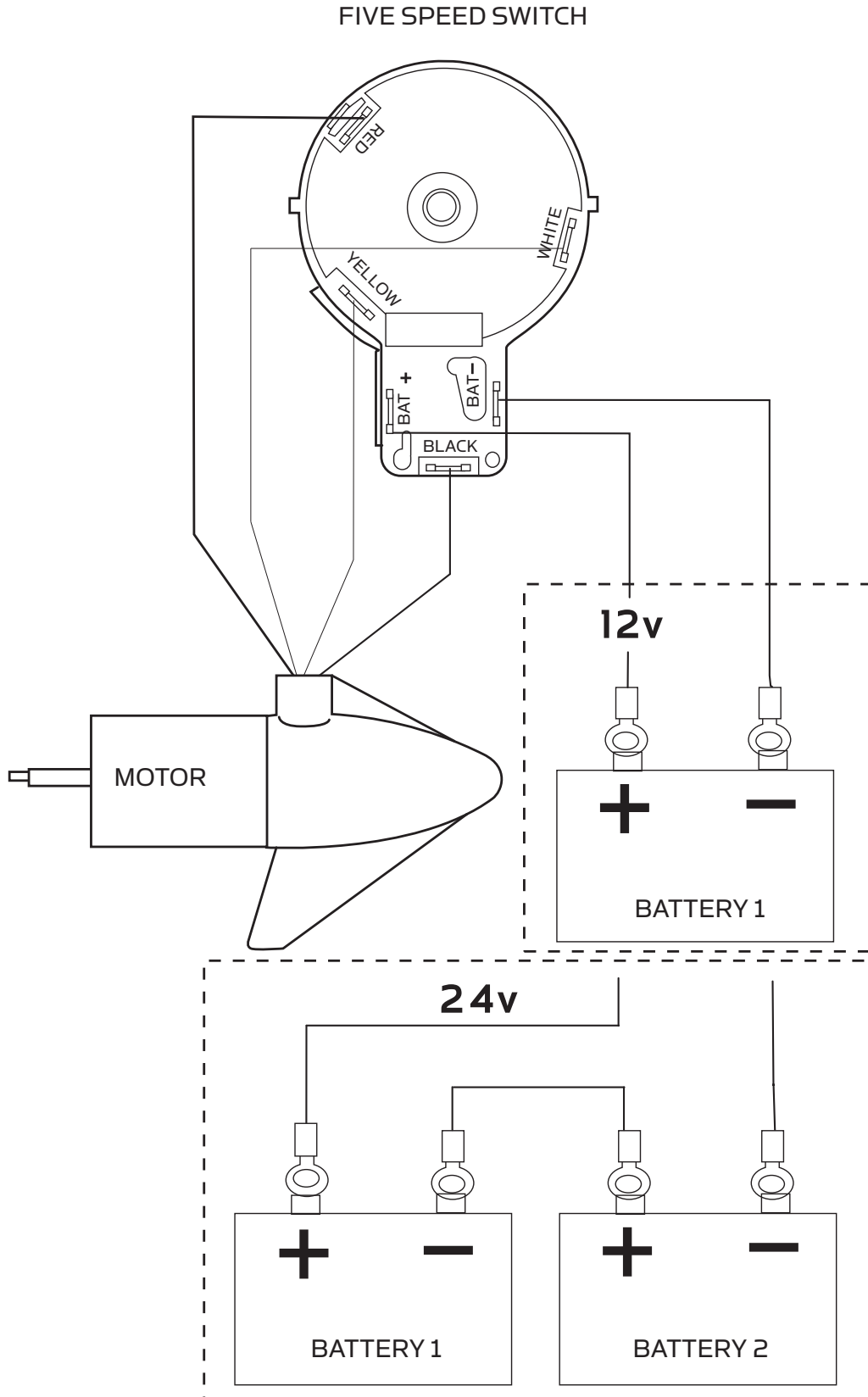


CAUTION

- **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

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



USING & ADJUSTING THE MOTOR

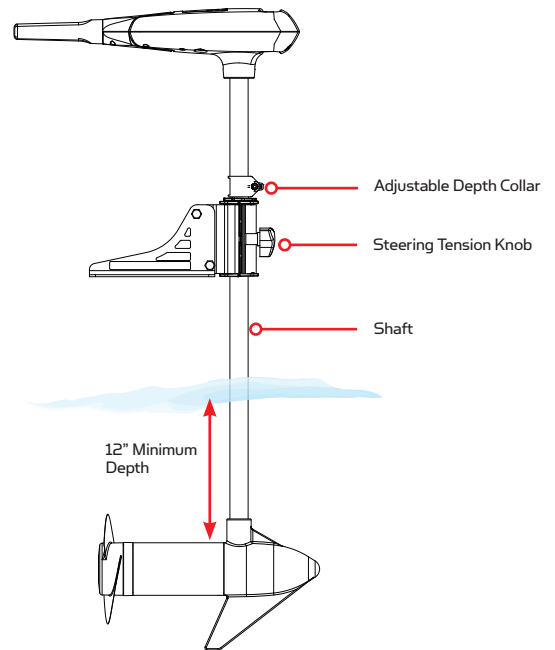
ADJUSTING THE DEPTH OF THE MOTOR

When setting the depth be sure the top of the motor is submerged at least 12" to avoid churning or agitation of surface water. The propeller must be completely submerged.

1. Firmly grasp the composite shaft and hold it steady.
2. Loosen the steering tension knob and adjustable depth collar knob until the shaft slides freely.
3. Raise or lower the motor to the desired depth.
4. Tighten adjustable depth collar knob to secure the motor in place.

CAUTION:

- **Never operate your motor when it is out of the water.**

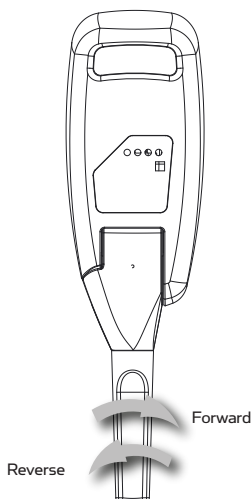
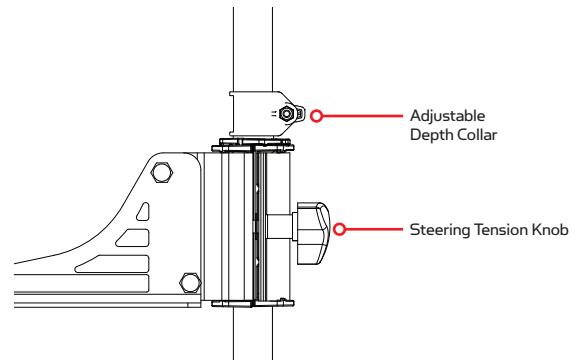


ADJUSTING THE STEERING

- Adjust the steering tension knob to provide enough tension to allow the motor to turn freely, yet remain in any position without being held

OR

- Tighten the knob to place the motor in a preset position to leave your hands free for fishing.

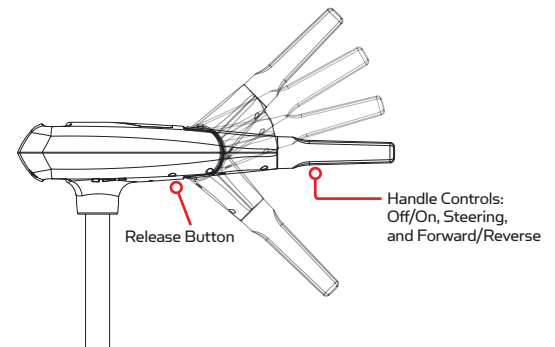


CONTROLLING SPEED & STEERING WITH THE TILLER

This motor offers a choice of five forward and three reverse speeds. The speed control may be operated in either direction, forward or reverse. Turn the tiller handle counterclockwise from O (off) to increase reverse speed and clockwise from O (off) to increase forward speed. Thrust decreases as you approach O from either direction.

ADJUSTING THE TILT TWIST TILLER™

The twist grip tiller handle is shipped in the down position. Firmly pull the handle up to the horizontal position. The handle has five available positions: 45° down, horizontal, 15°, 30°, and 45° tilted up. The handle locks in the horizontal position but can be tilted down by pushing the release button located on the left underside of the handle pivot.



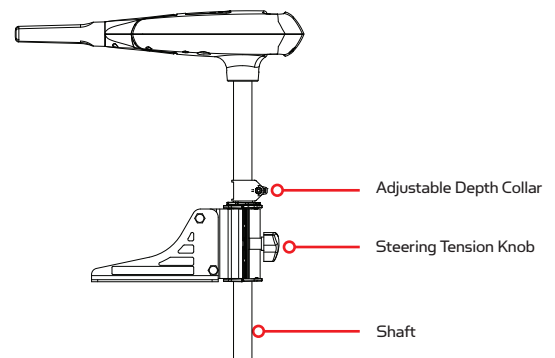
STOWING AND DEPLOYING THE MOTOR

Stowing

1. Firmly grasp the motor shaft.
2. Loosen the steering tension knob and lift up on the motor.
3. Retighten the steering tension knob to retain the vertical stow position of the motor.
4. Slide the adjustable depth collar down to the top of the mounting bracket.

Deploying

1. Loosen the adjustable depth collar.
2. Hold the motor shaft firmly, and loosen the steering tension knob.
3. Gently lower the motor into the water.
4. Retighten the adjustable depth collar.
5. Retighten the steering tension knob to the desired steering tension.



REMOVING FOR TRANSPORTATION/STORAGE

1. Disconnect the motor from batteries
2. Loosen the steering tension knob to open the door on the mounting bracket.
3. Remove motor from mounting bracket.

SERVICE & MAINTENANCE

PROPELLER REPLACEMENT

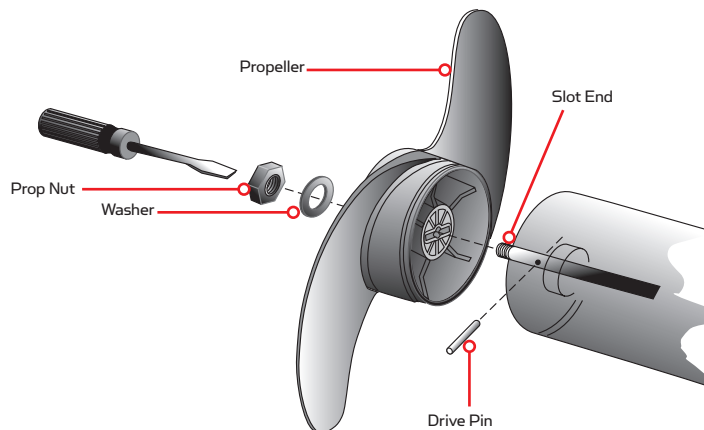
TOOLS AND RESOURCES REQUIRED:

- Box End Wrench
 - 1/2" for motors with 70 lbs thrust or lower.
 - 9/16" for motors with 80 lbs thrust or higher.
- Screwdriver (optional)

CAUTION:

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

NOTE: The propeller on your motor may differ from the one pictured.



1. Disconnect the motor from all sources of power prior to changing the propeller.
2. Hold the propeller and loosen the prop nut with pliers or a wrench.
3. Remove the prop nut and washer. If the drive pin is sheared or broken, you will need to hold the shaft stationary with a blade screwdriver pressed into the slot on the end of the shaft.
4. Turn the old prop to horizontal (as illustrated) and pull it straight off. If drive pin falls out, push it back in.
5. Align the new propeller with the drive pin.
6. Install the prop washer and prop nut.
7. Tighten the prop nut 1/4 turn past snug [25-35 inch lbs.] Do not over tighten as this can damage the prop.

GENERAL MAINTENANCE

1. After use, the entire motor should be rinsed with freshwater. This series of motors is not equipped for saltwater exposure.
2. The composite shaft requires periodic cleaning and lubrication for proper retraction and deployment. A coating of an aqueous based silicone spray will improve operation.
3. 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.
4. Verify the prop nut is secure each time the motor is used.
5. 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.
6. 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.
7. Keep battery terminals clean with fine sandpaper or emery cloth.
8. 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

TROUBLESHOOTING & REPAIR

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:
 - Loosen the steering tension knob on the bracket
 - Lubricate the composite shaft.
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 separate deep cycle marine battery for your trolling motor and that you power the depth finder from the starting/cranking battery. If problems still persist, call our service department.

NOTE: 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 Center page](#), found online or by calling our customer service.

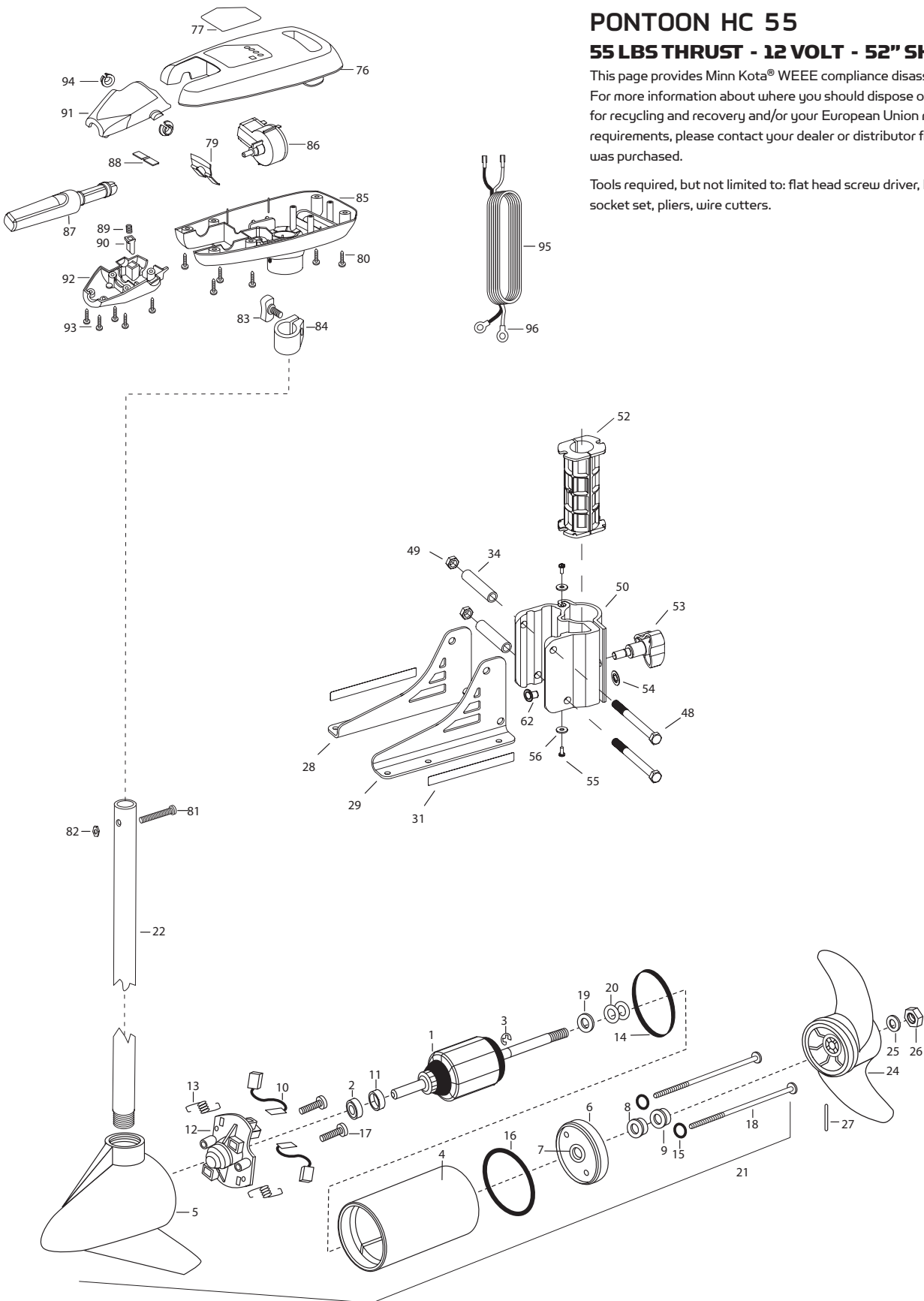
PARTS DIAGRAM

PONTOON HC 55

55 LBS THRUST - 12 VOLT - 52" SHAFT

This page 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 screw driver, Phillips screw driver, socket set, pliers, wire cutters.



PARTS LIST

PONTOON HC 55

55 LBS THRUST - 12 VOLT - 52" SHAFT

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	2-100-121	ARMATURE ASSEMBLY 12 V 3.625
2	1	140-010	BALL BEARING
3	1	788-015	RETAINING RING
4	1	2-200-101	CENTER HOUSING ASSEMBLY
5	1	2-300-199	BRUSH END HOUSING ASSEMBLY SPDCO
6	1	2-400-101	PLAIN END HOUSING ASSEMBLY
7	1	144-049	BEARING – FLANGE (SERVICE ONLY)
8	1	880-003	SEAL
9	1	800-006	SEAL W/SHIELD
10	2	188-036	BRUSH ASSEMBLY
11	1	725-035	TUBE – BRUSH RETENTION
12	1	738-036	BRUSH PLATE WITH HOLDER
13	2	975-040	TORSION SPRING
14	1	337-036	GASKET
15	2	701-008	O-RING THRU BOLT
16	1	701-081	O-RING
17	2	830-007	#8-32 SCREW
18	2	830-042	THRU BOLT 10-32X8.83
19	1	990-067	WASHER – STEEL THRUST
20	2	990-070	WASHER – NYLATRON
21	1	2097077	MOTOR ASSEMBLY 12V F/W 3.625 55PCO
22	1	2032068	TUBE – COMPOSITE-52"
■	1	1378131	PROPELLER KIT
*24	1	2061160	PROPELLER – W/WEDGE 2
*25	1	2151726	WASHER – 5/16 SS
*26	1	2053101	NUT – PROP NYLOC
*27	1	2092600	PIN – DRIVE
■	1	2991715	PONTOON BRACKET ASSEMBLY
28	1	2261915	LEFT BRACKET
29	1	2261916	RIGHT BRACKET
31	2	2265689	DECAL, MINNKOTA
34	2	2261727	BRACKET SPACER
48	1	2263511	BOLT 3/8-16 X 4.0"
49	1	2263114	NUT – NYLOCK JAM 3/8-16
50	1	2991829	HINGE-DOOR-KNOB-ASSEMBLY
52	2	2261537	HINGE SLEEVE
53	1	2260905	HANDLE – SOFT GRIP, L&D
54	1	2261728	WASHER – RETAINING 3/8"
55	2	2053415	SCREW #8-32 X 3/8" TRI
56	2	2261732	WASHER #8, NYLON
62	1	2264703	INSERT – THREADED
76	1	2060285	COVER – CONTROL BOX
77	1	2275617	DECAL – COVER EDGE 55/H
79	1	2302743	SPRING – DETENT HANDLE-TILT

ITEM	QTY	PART NUMBER	DESCRIPTION
80	6	2303412	SCREW – 6-20 X 5/8 SELF TAP
81	1	2033400	SCREW – 10-24 X 1-3/4
82	1	2013110	NUT – 10-24 HEX (ZCP)
83	1	2011365	SCREW – COLLAR/NEW KNOB
84	1	2031520	COLLAR – DEPTH W/O INSERT
85	1	2062551	CONTROL BOX PLAS W/HAND
86	1	2064028	SWITCH – FWD/REV 5SP
87	1	2990912	HANDLE ASSEMBLY-W/U-JOINT 5SP
88	1	2302742	SPRING – DETENT OFF
89	1	2302745	SPRING – RELEASE BUTTON
90	1	2303720	RELEASE BUTTON – HANDLE
91	1	2060408	HANDLE – TOP HALF
92	1	2060415	HANDLE – LOWER HALF
93	5	2303412	SCREW – 6-20 X 5/8 SELF TAP
94	2	2060005	BEARING – HANDLE PIVOT
95	1	2090650	LEADWIRE – 10 GA RINGS
96	2	2020700	TERMINAL RING, 3/8"
■	1	2994838	BAG ASSEMBLY – BOLTS NUTS WASHERS
*98	6	2263462	SCREW 1/4-20X2 SS
*99	6	2261713	WASHER – 1/4 FLAT 18-18
*100	6	2263101	NUT – 1/4-20 NYLOC-JAM
■	1	2888460	SEAL & O-RING KIT

■ THIS ITEM IS PART OF AN ASSEMBLY.

*THIS ITEM IS PART OF A KIT AND ONLY LISTED FOR VIEWING PURPOSES.

COMPLIANCE STATEMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT:

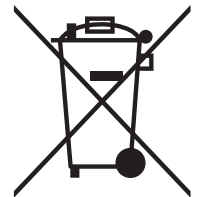
It is the intention of JOME to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

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.

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

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.



MK345PC



MK210D



MK110P

TALON SHALLOW WATER ANCHOR

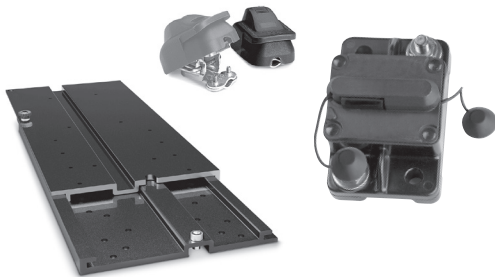
Talon deploys faster, holds stronger and runs quieter than any other shallow water anchor. Available in depths up to 12' and bold color options including camo, it boasts an arsenal of features and innovations that no other anchor can touch:



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