

# VANTAGE

## TRANSOM-MOUNT TROLLING MOTOR

### USER MANUAL

## 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.

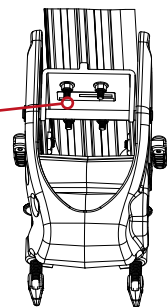
**ATTENTION:** Never run the motor out of the water, as this may result in injuries from the rotating propeller. The motor should be disconnected from the power source when it is not in use or is off the water. When connecting the power-supply cables of the motor to the battery, ensure that they are 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/sec<sup>2</sup>.

### LOCATING YOUR SERIAL NUMBER

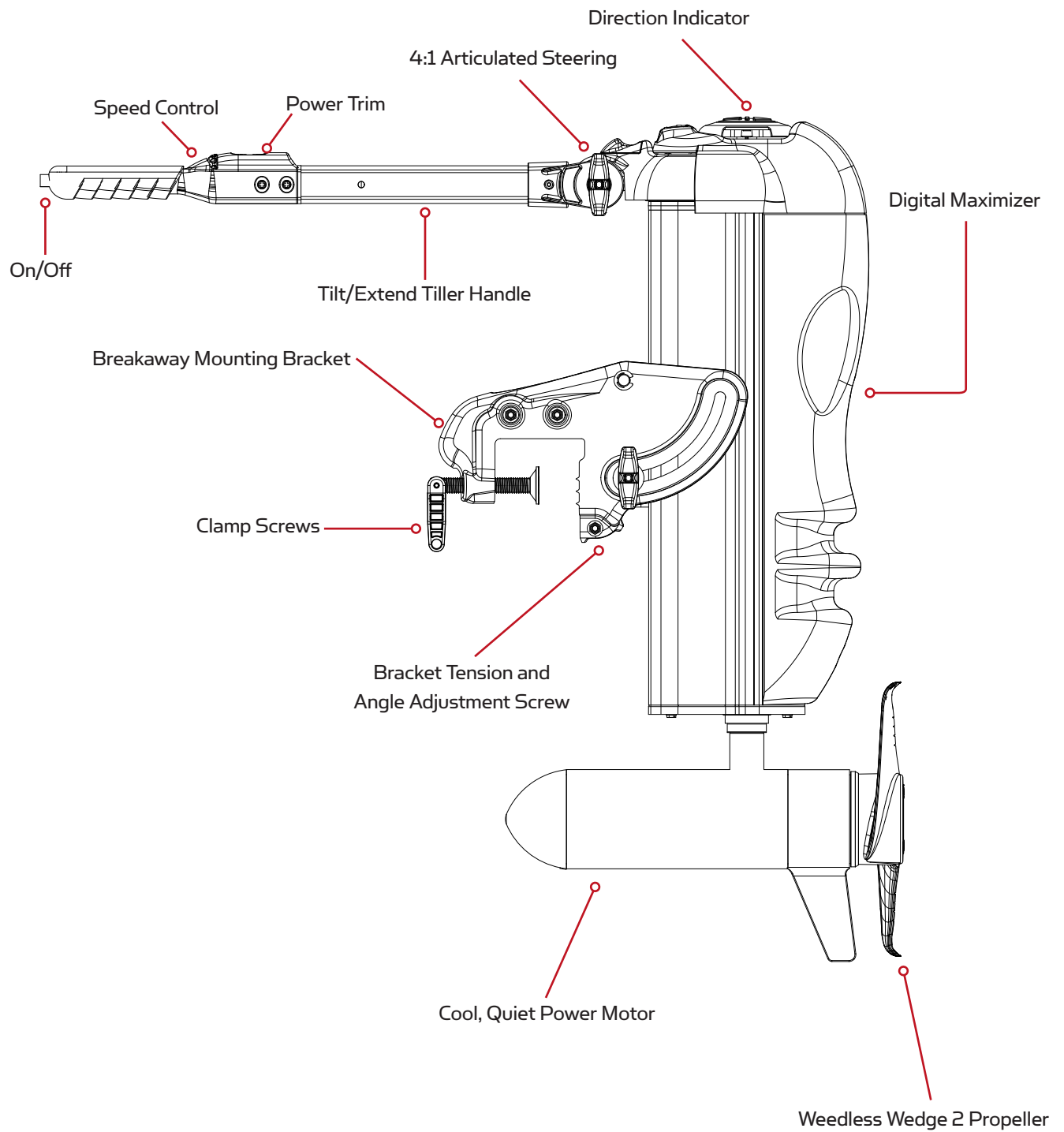
Your Minn Kota 11-character serial number is very important. It helps to determine the specific model and year of manufacture. When contacting Consumer Service or registering your product, you will need to know your product's serial number. We recommend that you write the serial number down in the space provided below so that you have it available for future reference.

**The serial number on your Vantage is located on the inside of the main transom bracket**



# FEATURES

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Specifications subject to change without notice.

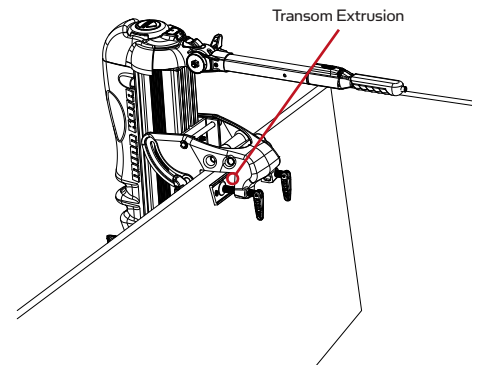
\*This diagram is for reference only and may differ from your actual motor.

# INSTALLATION

## MOTOR INSTALLATION

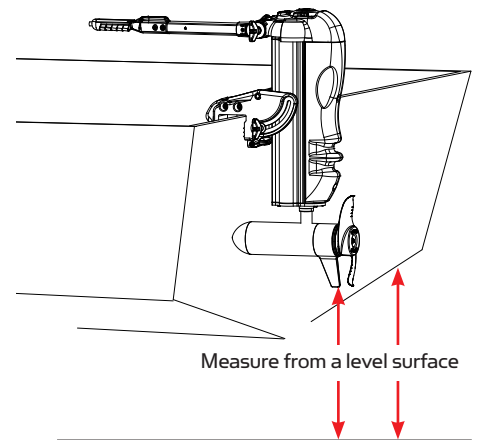
With its variable shaft length, the Vantage will fit on most transoms between 14 and 28 inches high.

1. Trailer the boat and park it on a level surface.
2. Locate the Vantage on the boat transom where it will be mounted. The location choice is important. The Vantage motor lower unit rotates 400°. It must, therefore, be positioned far enough to the side of the outboard engine along the transom so that during rotation it will not strike the outboard engine. With the 36V 101 version, you should install the transom extrusion (provided) before you secure the Vantage to the transom.



### TRANSOM EXTRUSION INSTALLATION (101 MODELS ONLY)

- a. Set Vantage on transom with clamp screws backed out.
  - b. Slide extrusion between inside of transom and the clamp screw washers and tighten clamp screws.
  - c. Attach extrusion to transom with two screws provided. This will require drilling two appropriate sized pilot holes for the self tapping screws.
3. Set the angle adjustment/tensioning screws (located on the sides of transom bracket) so the motor is perpendicular to the ground. Hand tighten the screws.
  4. Measure from the ground to the bottom of the hull. Measure from ground to the bottom of the Vantage skeg. Secure the unit so the bottom of the skeg is at one inch above the bottom of the hull, directly in front of the Vantage (accounting for the v-shape of the boat hull). Use a 1/2 inch open-end wrench to loosen the four transom bracket nuts/bolts between the body of Vantage and the transom bracket. Adjust the body of Vantage to a one-inch level above the transom and secure. This will position the Vantage lower unit and prop so that, when retracted, they will clear the bottom of the boat. It may take several attempts to achieve correct placement.
  5. Adjust the handle to a comfortable position.



**NOTE:** When mounted properly, the Vantage motor lower unit will be out of the water when the boat is on plane. If lower unit creates water spray when on plane, slightly re-adjust it higher until there is no more water spray.

### CAUTION:

- **Never operate your motor when it is out of the water.**
- **Over-tightening the clamp screws can damage the bracket.**

**WARNING:** When raising/lowering motor or operating the tilt mechanism, 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.

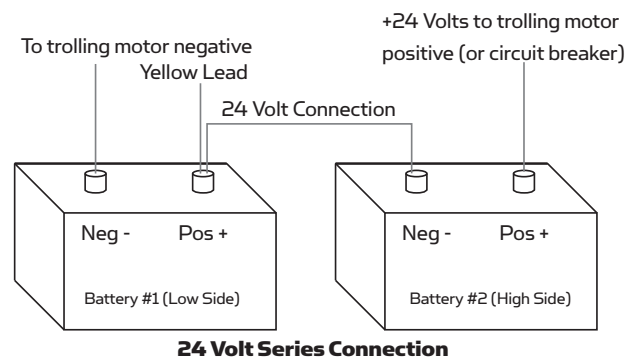
### Advice Regarding Batteries:

- Never connect the (+) and the (-) terminals of the 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 IN SERIES (IF REQUIRED FOR YOUR MOTOR)

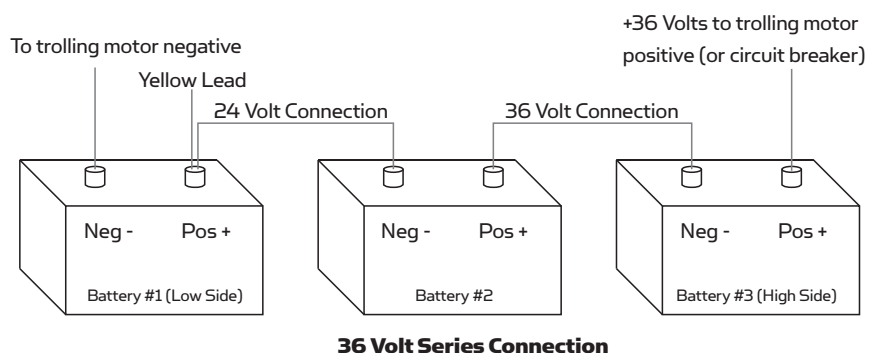
### 24 VOLT SYSTEMS:

1. Make sure that the motor is switched off (speed selector on “0”).
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 the connector cable supplied with the motor to positive (+) terminal of battery 1 and to negative (-) terminal of battery 2.
  - b. Connect positive (+) red lead to positive (+) terminal on battery 2.
  - c. Connect the yellow (+) lead to positive (+) terminal on battery 1.
  - d. Connect negative (-) black 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.



### 36 VOLT SYSTEMS:

1. Make sure that the motor is switched off (speed selector on “0”).
2. Three 12 volt batteries are required.
3. The batteries must be wired in series, only as directed in wiring diagram, to provide 36 volts.
  - a. Connect the connector cable supplied with the motor to positive (+) terminal of battery 1 and to negative (-) terminal of battery 2.
  - b. Connect positive (+) red lead to positive (+) terminal on battery 3.
  - c. Connect the yellow (+) lead to positive (+) terminal on battery 1.
  - d. Connect negative (-) black 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.

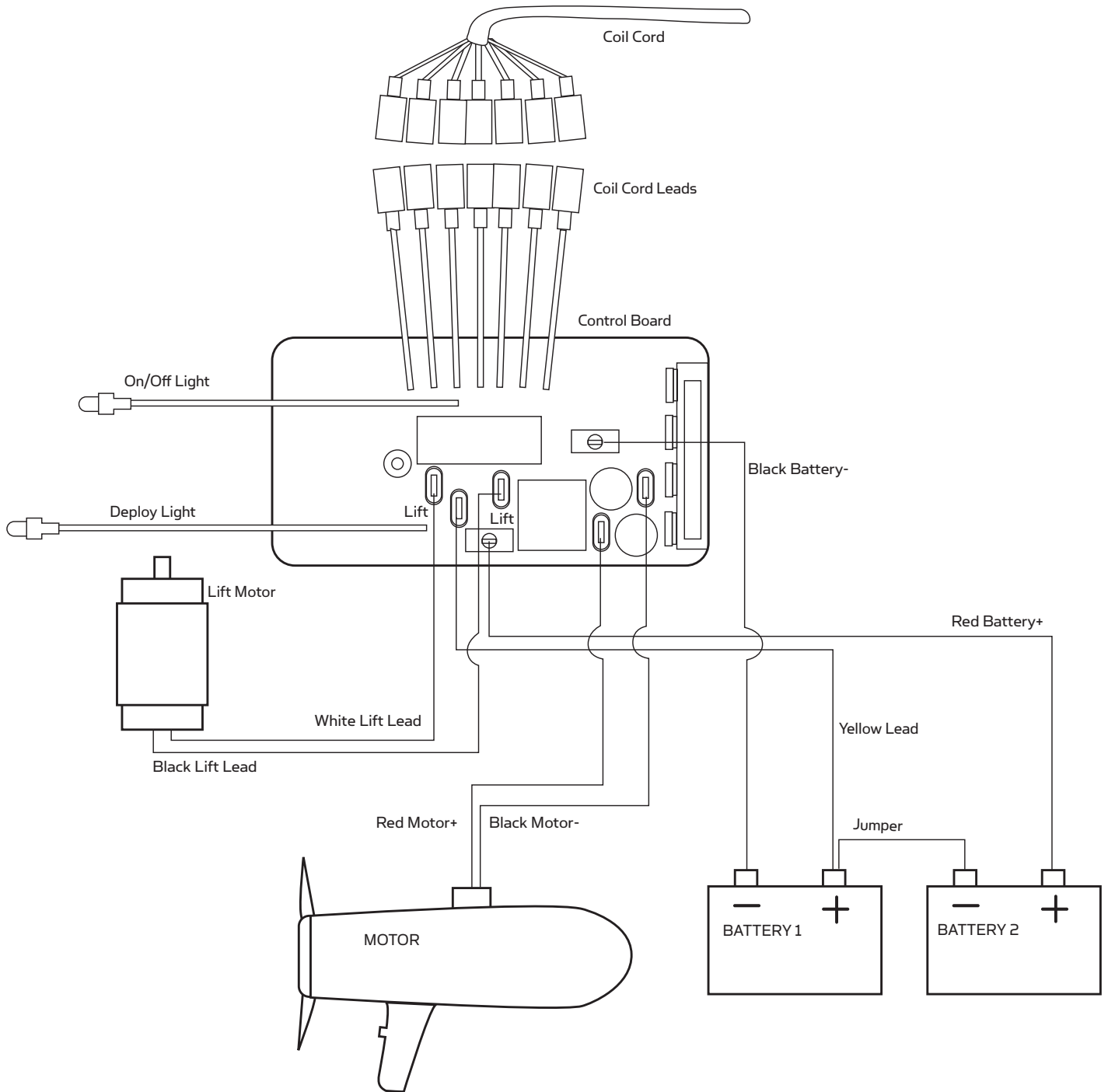


### CAUTION

- **Improper wiring of 24/36 volt systems could cause battery explosion!**
- **Keep leadwire wing nut connection tight and solid to battery terminals.**
- **Locate battery in a ventilated compartment.**
- **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.**

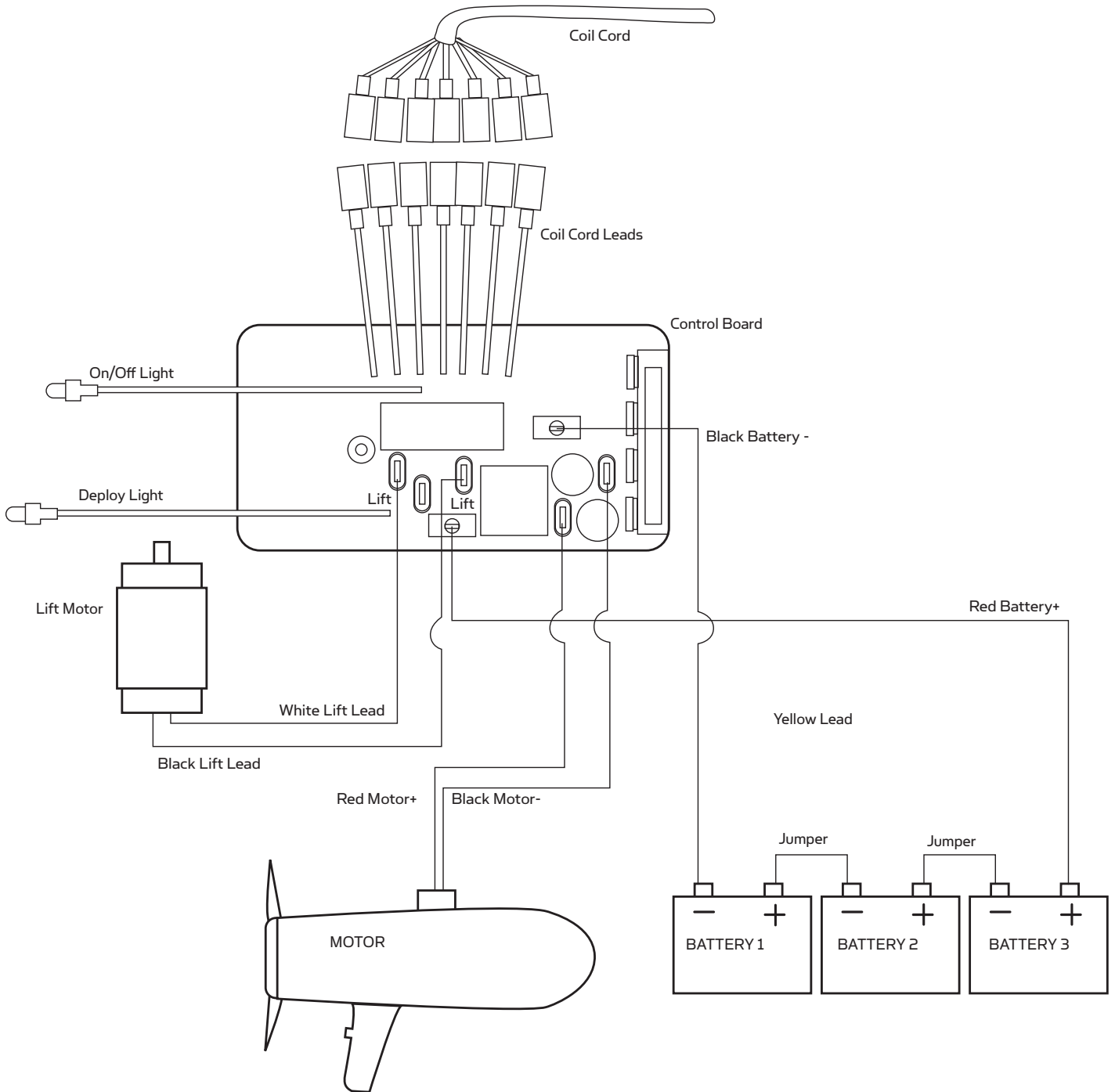
# MOTOR WIRING DIAGRAM

## 24 VOLT SYSTEM



# MOTOR WIRING DIAGRAM

## 36 VOLT SYSTEM





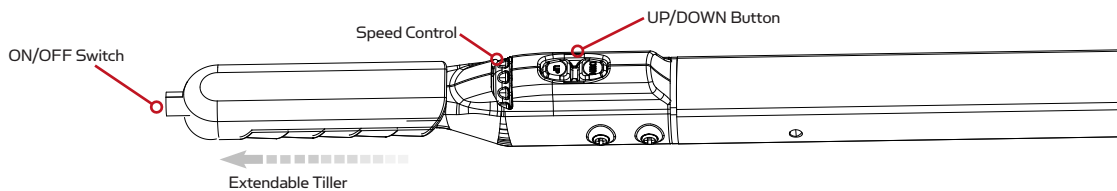
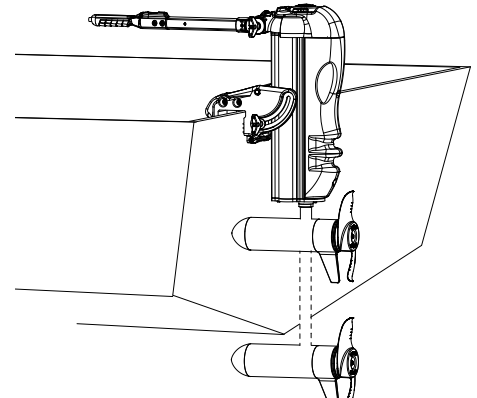
# USING & ADJUSTING THE MOTOR

## ADJUSTING THE DEPTH OF THE MOTOR

To position the lower unit, press and release the DOWN button on the tiller to automatically lower the motor into the water. To adjust for shallow water, deploy the motor and hit the DOWN button a second time and the motor will stop at that point. Use the UP button to adjust depth if still necessary. When the DOWN button is pushed, the motor down LED will illuminate and stay lit until the motor is retracted back to its stowed position. The motor is only designed to deploy a certain distance. Pushing the DOWN button when the motor is fully deployed or UP button when the motor is fully stowed may result in lift motor damage.

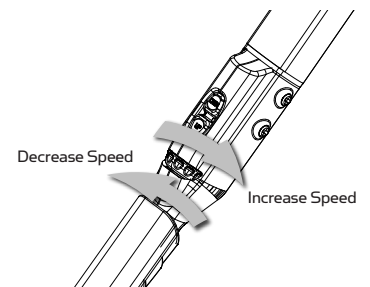
**NOTE:** If the UP button is pushed while the lower unit is running, the power will shut off to protect the lift system.

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



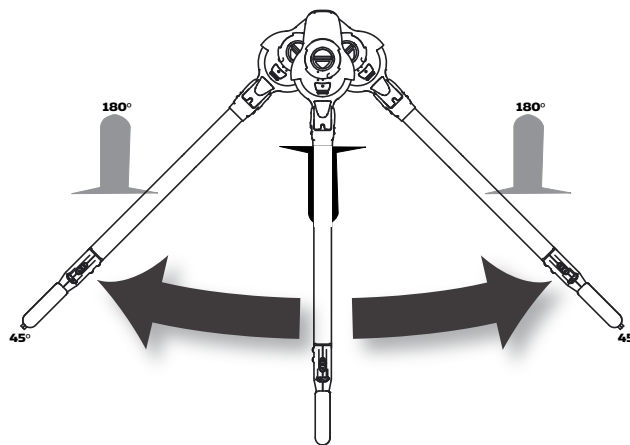
## CONTROLLING SPEED AND DIRECTION WITH THE TILLER

Locate the ON/OFF switch located at the end of the control handle. Push the switch in to power on, and push the switch again to power off. The LED indicator will illuminate when power is on. This motor offers a choice of infinitely variable speeds. Turn the control button on the tiller counterclockwise to decrease speed and clockwise to increase speed.



## ARTICULATED STEERING

The tiller has a 4-to-1 steering ration which enables you to rotate the lower unit 180° by moving the tiller just 45°.

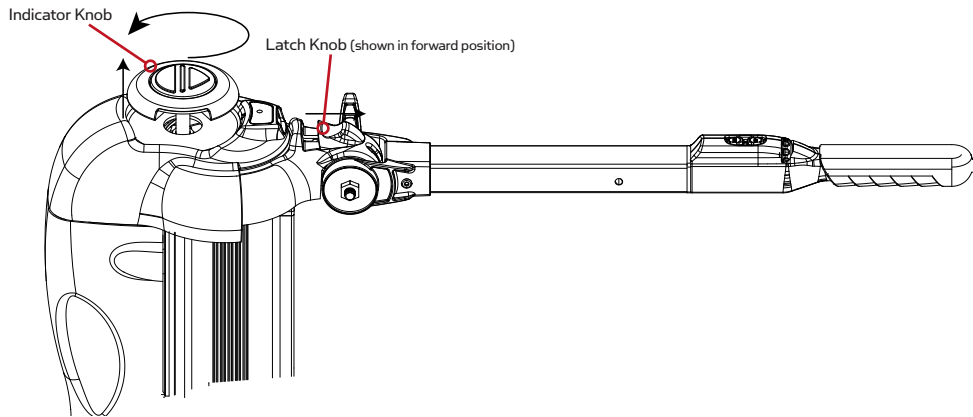


## USING & ADJUSTING THE MOTOR

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### BACKROLLING

The orientation of the lower unit can be changed for backtrolling. Set your speed to 0 and trim the lower unit down to the fully deployed position. Slide the latch knob to the front and hold. Align the directional indicator with the tiller handle and slightly twist the indicator knob left or right while pulling up with slight force until the alignment is achieved and the indicator knob is free. Lift and turn the indicator knob counterclockwise 180°, then align the indicator in its new position with the tiller handle and press down to re-seat it. Release the latch knob..

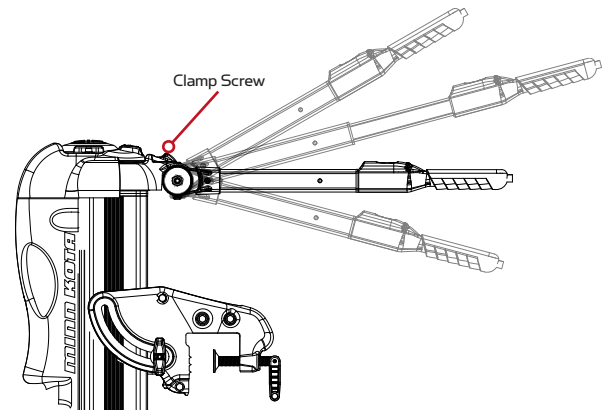


### ADJUSTING THE TILLER

Pull the tiller handle to extend the tiller an additional 7 inches. The handle can be positioned at an angle using the large clamp screw. Loosen the screw located at the base of the handle, adjust the handle to a comfortable position then hand-tighten the screw.

**CAUTION: Over-tightening the clamp screw, or adjusting the handle angle without loosening clamp screw, can damage the bracket.**

**NOTE: Always loosen clamp before adjusting angle and retighten when desired angle is achieved.**



# SERVICE & MAINTENANCE

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## PROPELLER REPLACEMENT

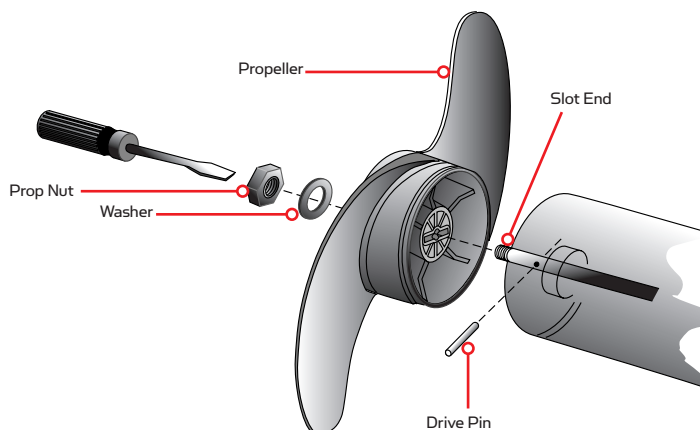
### TOOLS AND RESOURCES REQUIRED:

- 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, then wiped down with a cloth dampened with an aqueous based silicone spray. This series of motors is not equipped for saltwater exposure.
2. 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.
3. Verify the prop nut is secure each time the motor is used.
4. 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.
5. 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.
6. Keep battery terminals clean with fine sandpaper or emery cloth.
7. 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 & REPAIR

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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. You experience prop vibration during normal operation:
  - Remove and rotate the prop 180°. See removal instructions in the Propeller Replacement section.
4. The lower unit does not fully deploy:
  - Check for shallow water or underwater obstructions.
5. The deployed lower unit does not fully retract:
  - Press the DOWN button so the lower unit returns to full deploy. Then press and hold the UP button until the unit is fully retracted.
6. 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.

**ATTENTION:** The lift system of the Vantage motor can be affected by cold temperatures. At temperatures below 32 degrees Fahrenheit, (0 degrees Celsius), the lubricant in the lift system can become viscous preventing stow/deploy. Also, if this motor is being used in open water areas at freezing temperatures, ice can form on the telescoping portion of the motor shaft preventing stow/deploy. In either case, placing the motor in a warm, heated area will restore the lift system to normal operation.

**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

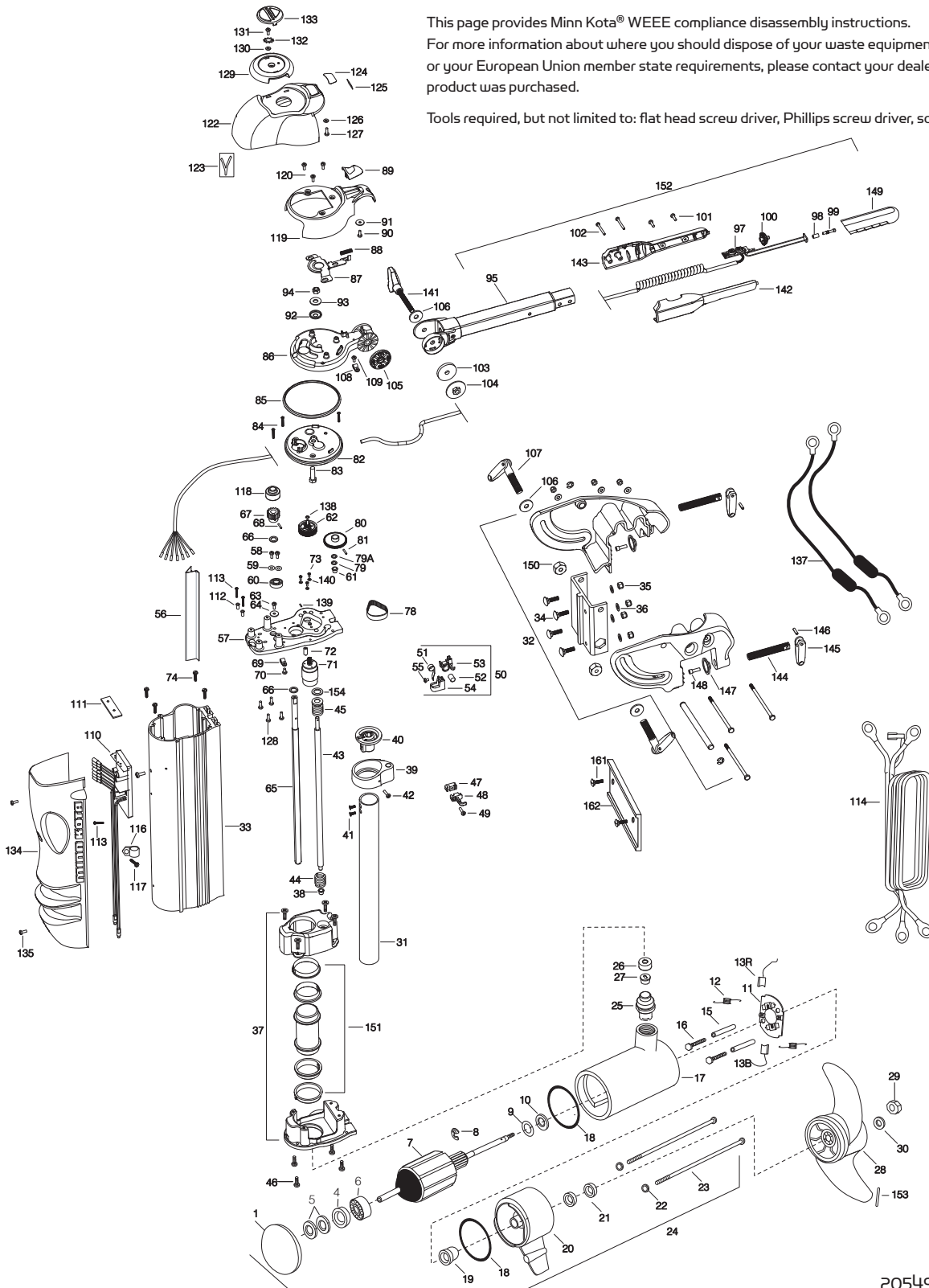
## VANTAGE 80 80 LBS THRUST - 24 VOLT

## VANTAGE 101 101 LBS THRUST - 36 VOLT

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

## VANTAGE 80/101

### 80/101 LBS THRUST - 24/36 VOLT

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	421-276	PLAIN END HOUSING ASSY
4	1	990-045	THRUST SPACER
5	2	992-010	SPRING WASHER
6	1	140-010	BALL BEARING
7	1	2-100-214	ARMATURE ASSEMBLY 80
	1	2-100-216	ARMATURE ASSEMBLY 101
8	1	788-040	RETAINING RING
9	1	990-051	WASHER-THRUST, STEEL
10	1	990-052	WASHER- NYLATRON
■	1	2-600-144	BRUSH/WIRE/PLATE ASSEMBLY(11-13)
*11	1	738-004	BRUSH PLATE
*12	2	975-041	SPRING -TORSION
13	2	188-094	BRUSH
15	2	973-025	SPACER -BRUSH PLATE
16	2	830-027	SCREW - 10-32 X 2.2"
17	1	2-200-160	CENTER HSING ASSY 80
	1	2-200-110	CENTER HSING ASSY 101
*18	2	701-043	O-RING
19	1	144-017	BEARING -FLANGE
20	1	2-300-160	BRUSH END HOUSING ASSY
*21	2	880-025	SEAL
*22	2	701-009	O-RING -THRU BOLT
■	1	2889460	SEAL & ORING KIT(18, 21, & 22)
23	2	830-094	THRU BOLT 80
	2	830-096	THRU BOLT 101
24	1	2316271	MOTOR ASSEMBLY 80
	1	2316261	MOTOR ASSEMBLY 101
25	1	979-015	STRAIN RELIEF - BODY
26	1	9950339	CAP - STRAIN RELIEF
27	1	2382900	GROMMENT- STRAIN RELIEF
28	1	2331160	PROPELLER (W.WEDGE 2)
29	1	2093101	NUT-PROP NYLOC (LARGE)
30	1	2091701	WASHER-PROP (LARGE)
31	1	2772010	TUBE-MOTOR 1 3/4" KIT W/TEMPLATE
32	1	2991822	TRANSOM BRCKT ASSY
33	1	2056505	HOUSING EXTRUSION
34	4	2053511	BOLT-CARRIAGE 5/16-18 1"
35	4	2151726	WASHER-5/16 STD (5/5)
36	4	2053103	NUT, 5/16-18 NYLOC
37	1	2770420	LOWER SUPPORT CAGE ASSEMBLY
38	1	2057302	BEARING-UPPER, LIFT SCREW
■	1	2881510	YOKE/BEARING RACE KIT (39,40,42)
*39	1	2051510	YOKE-LIFT SCREW
*40	1	2056200	BEARING RACE-YOKE

ITEM	QTY	PART NUMBER	DESCRIPTION
41	2	2053401	SCREW-10 X 1/2,TYPE 25
*42	1	2353401	SCREW-10-16 X 1/2 STALGD
43	1	2053400	SCREW-LIFT, 1/2-10 ACME
44	1	2052707	SPRING-COIL,SOFT STOP
45	1	2770429	COIL SPRING/WASHER KIT
46	4	2053413	SCREW-10-16X1'
N	1	2883200	WIRE CLAMP KIT (47,48,49)
*47	1	2053200	WIRE CLAMP, LEFTHAND
*48	1	2053205	WIRE CLAMP, RIGHTHAND
*49	1	2053417	SCREW-10-16X3/4
50	1	2770400	TAPE SPRING ASSY (51-55)
51	1	2052705	SPRING, CONSTANT FORCE
52	1	2052610	PIN-PIVOT 7/16" O.D.
53	1	2051920	BRACKET-SPRING
54	1	2052305	WIRE GUIDE
55	1	2053418	SCREW-#4-40X1/4
56	1	2050225	WIRE SHIELD
■	1	2770405	TOP PLATE ASSEMBLY (57,60,61,68)
*57	1	2051927	TOP PLATE
58	2	2053414	SCREW-#8-32 X 1/2
59	2	2051717	WASHER-#8 SAE FLAT
*60	1	2057306	BEARING-BALL
*61	1	2057302	BEARING-UPPER LIFT SCREW
*62	1	2052630	PIN, CLUSTER GEAR
63	1	2053415	SCREW-#8-32 X 3/8
64	1	2051716	WASHER-FENDER #10
65	1	2052001	SHAFT-STEERING
66	2	2051706	WASHER-SPRING SUPPORT
67	1	2052205	GEAR, STEERING TUBE MACHINED
*68	1	2052616	PIN-DRIV-LOK 1/8 X 1 1/8
69	1	2052510	CABLE CLAMP, 3/16'
70	1	2053415	SCREW-#8-32 X 3/8
71	1	2777812	MOTOR-LIFT (1,2,24,36V)
72	1	2058411	TENSIONER-BELT
73	3	2053422	SCREW - 3MM
74	4	2053413	SCREW-10-16X1
■	1	2882201	CLUSTER GEAR / FLANGE PULLEY KIT (75, 76, 77)
*75	1	2770427	PULLEY/PINION GEAR ASSY
*76	1	2058405	FLANGE-PULLEY
*77	2	2053418	SCREW 4-40 X 1/4 PPH
78	1	2050800	BELT-DRIVE
79	1	2051705	WASHER-NYLON
79A	1	2051703	WASHER-THRUST
■	1	2882200	GEAR LIFT/PIN KIT (80,62)

# PARTS LIST

## VANTAGE 80/101

80/101 LBS THRUST - 24/36 VOLT

ITEM	QTY	PART NUMBER	DESCRIPTION
*80	1	2990426	LIFT GEAR ASSEMBLY
81	1	2052620	PIN-DRIV-LOK 1/8 X 5/8"
82	1	2056520	CAP-LOWER, GEAR HOUSING
83	1	2383500	BOLT-3/8-16 X 1.25
84	3	2053402	SCREW-10-24 X 1"
85	1	2054600	O-RING, GEAR HOUSING
86	1	2056510	UPPER CAP GEAR HOUSING
87	1	2057200	LATCH
88	1	2052711	SPRING, LATCH RETURN
89	1	2050102	KNOB-LATCH
90	1	2353401	SCREW-10-16 X 1/2 STALGD
91	1	2051716	WASHER-FENDER #10
92	1	2151730	WASHER-CUP (HINGE BRACKET)
93	1	2051737	WASHER - FLAT (ZINC)
94	1	2053107	NUT-3/8-16, TOPLOCK
96	1	2990921	HANDLE ASSEMBLY
■	1	2884106	HANDLE CTRL BOARD/GRIP KIT (97,149)
*97	1	2994005	CTRL BOARD ASSY-HANDLE
98	1	2055115	BUTTON SWITCH ACTUATOR
■	1	2883701	PLUNGER/GRIP KIT (99,149)
*99	1	2053700	PLUNGER, ON/OFF
100	1	2050111	KNOB-SPEED CONTROL
101	2	2012100	SCREW-8-18 X 5/8" THD CUT
102	2	2053412	SCREW 8 X 1.5"
■	1	2880921	HANDLE TENSION KNOB KIT (103-105, 141)
*103	1	2051736	WASHER-URETHANE
*104	1	2053115	NUT-WASHER, HANDLE ASSY
*105	1	2050015	RACHET-DISK, HANDLE ASSY
■	1	2880920	BRACKET TENSION HANDLE KIT (106, 107, 150)
*106	1	2051737	WASHER-FLAT
*107	2	2050922	HANDLE, TENSION, SHORT
108	1	2052510	CABLE CLAMP, 3/16"
109	1	2053415	SCREW-#8-32 X 3/8"
*110	1	2774041	CNTRL BRD ASSY 24/36V W/PAD INCL.111
*111	1	2315105	INSULATING PAD
112	2	2261712	SHOULDER WASHER
113	3	2053407	SCREW-#8-32 X .75 PPH
114	1	2051220	LEADWIRE, 24/36V CONDUCT
116	1	2052512	CABLE CLAMP, 1/2"
117	1	2053415	SCREW-#8-32 X 3/8"
118	1	2052210	ROLLER-STEERING SHAFT
■	1	2880102	CONTROL HEAD COVER LATCH KIT (89,90,91,119)
119	1	2050200	COVER-CONTROL HEAD
120	3	2053415	SCREW-#8-32 X 3/8"

ITEM	QTY	PART NUMBER	DESCRIPTION
121	2	2012100	SCREW-8-18 X 5/8"
122	1	2050211	SHROUD-CONTROL HEAD
123	2	2055612	DECAL-SHROUD
124	1	2055604	DECAL-COVER, 24V
	1	2055602	DECAL-COVER, 36V
125	1	2055610	DECAL-COVER, LED
126	1	2051712	WASHER- .152 ID, .50 OD, .06
127	1	2302100	SCREW-6-20 X 1/2"
128	4	2012100	SCREW-8-18 X 5/8"
129	1	2050110	KNOB-POINTER, VANTAGE
130	1	2051717	WASHER- #8
131	1	2332101	SCREW-8-32 X 1/2" S5
132	1	2371715	LOCKWASHER-STAR #8 ZINC
133	1	2056700	PLUG, POINTER
134	1	2050220	SHIELD-EXTRUSION
135	2	2053414	SCREW-#8-32 X 1/2"
136	2	2055611	DECAL-SHIELD - VANTAGE
137	2	2998200	CIRCUIT BRKR ASSEMBLY 36V
138	1	2051732	WASHER .315 X .562
139	1	2053420	SET SCREW #8-32
140	3	2051710	LOCKWASHER 3MM
141	1	2050921	HANDLE TENSION - LONG
■	1	2880910	HANDLE L/R KIT (100,101,102,142,143,150)
*142	1	2050916	HANDLE SIDE L
*143	1	2050911	HANDLE SIDE R
■	2	2880925	HANDLE/CLAMP SCREW KIT (144-148)
*144	1	2051300	SCREW-CLAMP 5/8X4
*145	1	2050925	HANDLE-CLAMP SCREW
*146	1	2052625	PIN-COILED SPRING
*147	1	2011710	WASHER-CLAMP SCREW
*148	1	2263402	SCREW- 1/4-20X3/4"
149	1	2880424	GRIP KIT
*150	1	2053105	NUT- HEX
151	1	2881500	TUBE/SLEEVE/BUSHING KIT
152	1	2990950	HANDLE/CTRL BOARD ASSY
153	1	2262658	PROP PIN
154	2	2340610	CONNECTOR CABLE
■	1	2994844	TRANSOM EXTRUSION KIT (161, 162) - 101 ONLY
161	2	2053421	BOLT - 1/4-1/4X1 - 101 ONLY
162	1	2058415	TRANSOM EXTRUSION KIT - 101 ONLY

■ THIS ITEM IS PART OF AN ASSEMBLY.

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

# COMPLIANCE STATEMENTS

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## ENVIRONMENTAL COMPLIANCE STATEMENT:

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

## WEEE DIRECTIVE:

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

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

This symbol (WEEE wheelee bin) on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE. Johnson Outdoors Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirement 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

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## 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

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## 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, 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

\*available on 10' and 12' models only

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## 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