

# TRAXXIS

## 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.

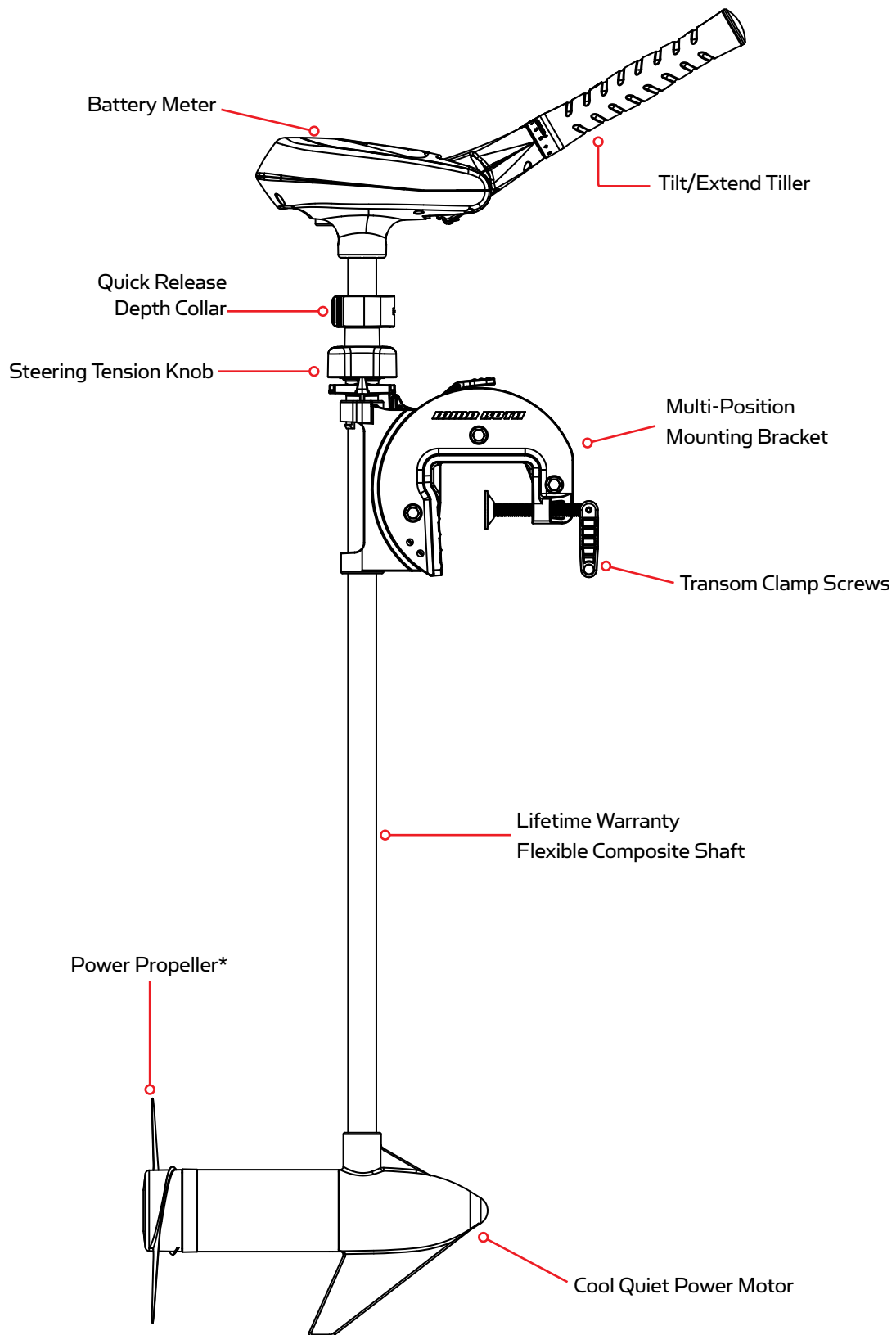
**Please thoroughly read this user manual.** Follow all instructions and heed all safety and cautionary notices below. Use of this motor is only permitted for persons that have read and understood these user instructions. Minors may use this motor only under adult supervision.

**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>.

# 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

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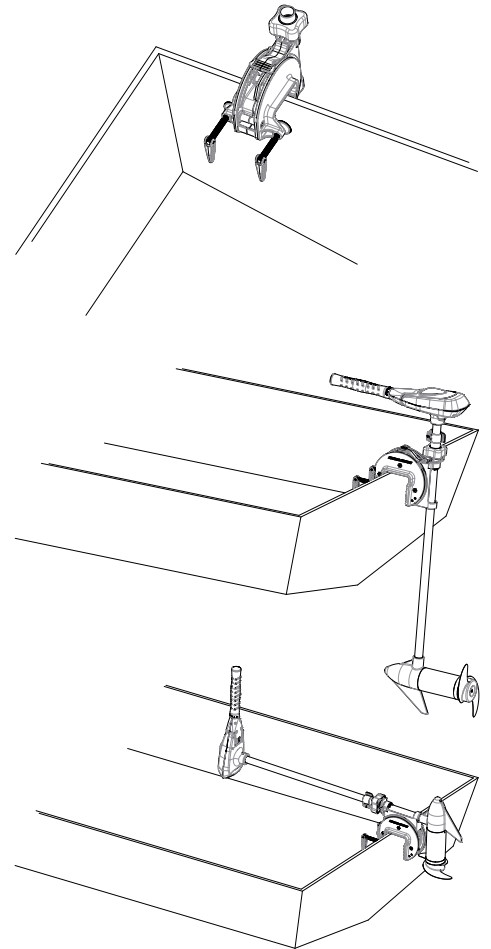
## MOTOR INSTALLATION

1. Find a transom area of the boat that is free from obstructions.
2. Open the clamp screws on the bracket enough so that it will fit over the top of the boat transom.
3. Place the mounting bracket over the top of the boat transom so that the bracket is resting on top of the transom.
4. Verify that there are no obstacles that the control box, handle, or prop might hit while in use, or when stowed, that would restrict steering or cause damage to the motor.
5. Tighten down the clamp screws to the transom by hand only. Do not use any tools to tighten the clamp screws as this may damage the bracket or your boat.
6. We recommend the tilt angle of the motor to be adjusted so that the motor shaft is perpendicular to the water surface when the motor is in use.
7. For transport, always tilt the motor into the boat, such that the motor and prop assembly are completely out of the water and the motor is positioned up close to the lever lock bracket.

**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.

### **CAUTION:**

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



# 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.

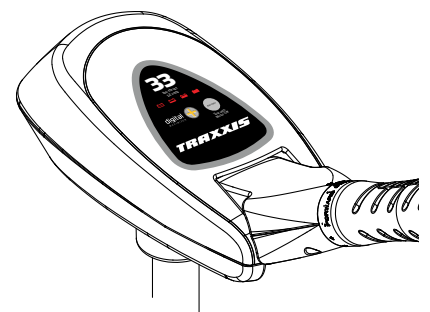
**\*Wire Extension Length refers to the distance from the batteries to the trolling motor leads.**

## PUSH-TO-TEST BATTERY METER

This motor is equipped with a “push to test” battery meter. The LED provides an accurate display of the remaining charge in the battery. It is only accurate when the motor is off.

The meter reads as:

- One light indicates recharge.
- Two lights indicate low charge.
- Three lights indicate good charge.
- Four lights indicate full charge.



# BATTERY WIRING & INSTALLATION

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## 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

### 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.

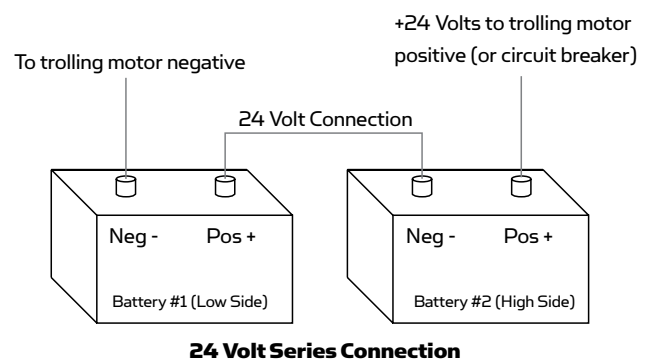
### CAUTION:

**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 lead to positive (+) terminal on battery 2.
  - c. 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.

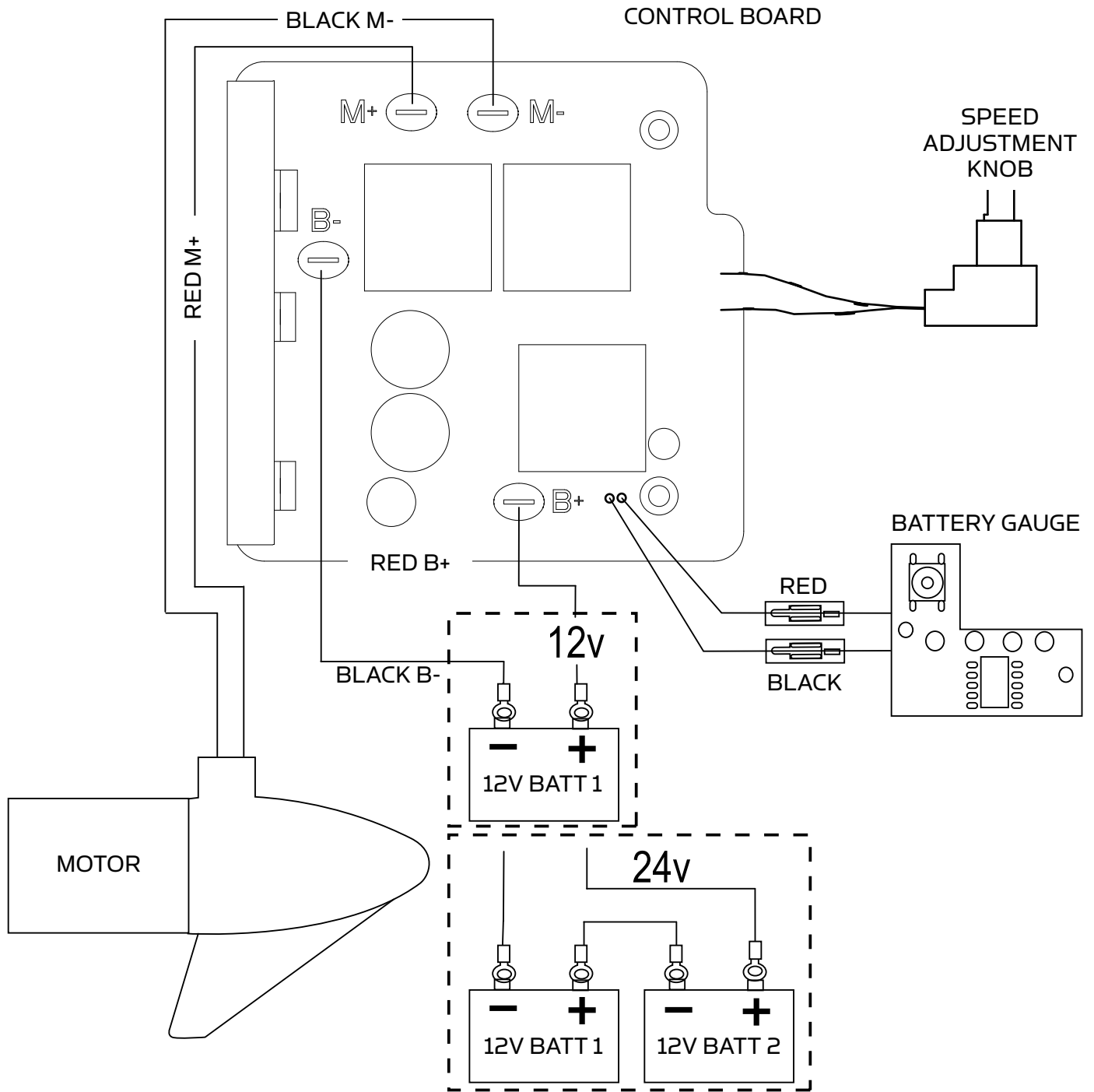


### CAUTION

- **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 connection tight and solid to battery terminals.**
- **Locate battery in a ventilated compartment.**

# MOTOR WIRING DIAGRAM

## VARIABLE SPEED SWITCH



# USING & ADJUSTING THE MOTOR

## STOWING AND DEPLOYING THE MOTOR

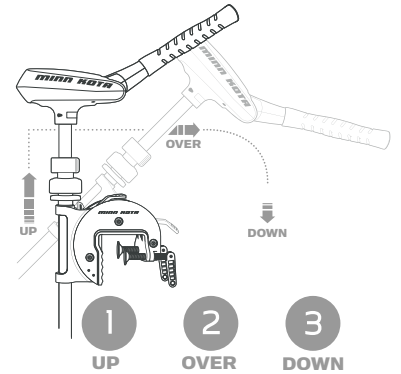
### WARNING:

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

### HORIZONTAL

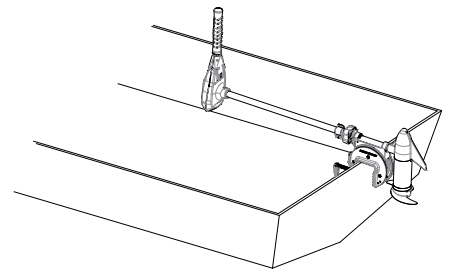
#### Stowing

1. Grab the back of the motor head or the motor shaft and lift up. If motor needs to be pulled into boat more, loosen the steering tension knob to adjust shaft.
2. While lifting up, tilt the motor into the boat (the motor must be lifted approximately 1/2" to disengage locking pins).
3. The bracket will ratchet into a locked position.
4. Retighten the steering tension knob and slide the quick release depth collar down to the top of the steering tension knob for transport.



#### Deploying

1. Loosen the quick release collar.
2. Reposition and retighten to desired depth location.
3. Hold the motor shaft or head firmly, and loosen the steering tension knob.
4. Press the tilt lock button while holding control head and gently lower the motor into the water.
5. Retighten the quick release collar.
6. Retighten the steering tension knob to the desired steering tension.



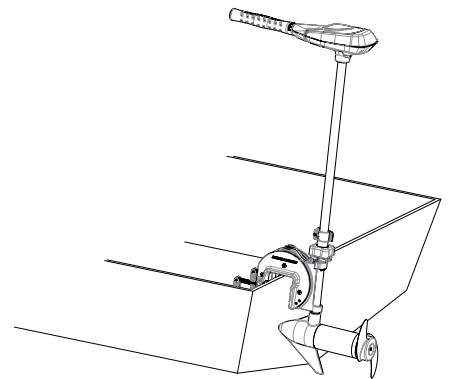
### VERTICAL STOW:

#### 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 quick release depth collar down to the top of the steering tension knob for added security.

#### Deploying

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

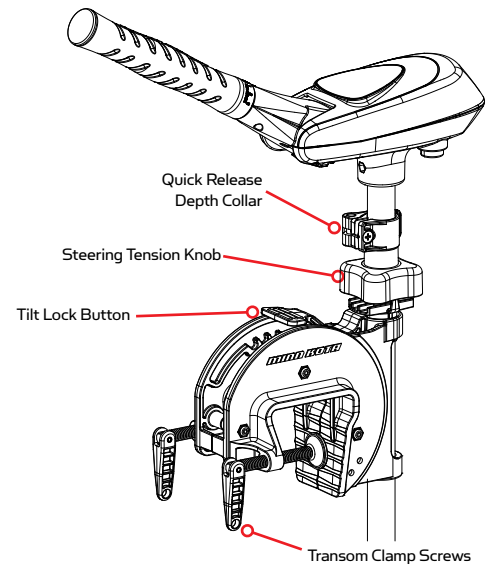




## ADJUSTING THE BRACKET

You can lock your motor in a vertical position, angle it for shallow water or tilt it completely out of the water.

1. Firmly grasp the control head of the motor. (Do not lift up on the motor for angular adjustment)
2. Press down and hold the Tilt Lock Button.
3. Tilt the motor forward or back to the desired position within the mounting bracket.
4. Release the Tilt Lock Button and ensure the motor is locked into the desired position.



## ADJUSTING THE DEPTH OF THE MOTOR

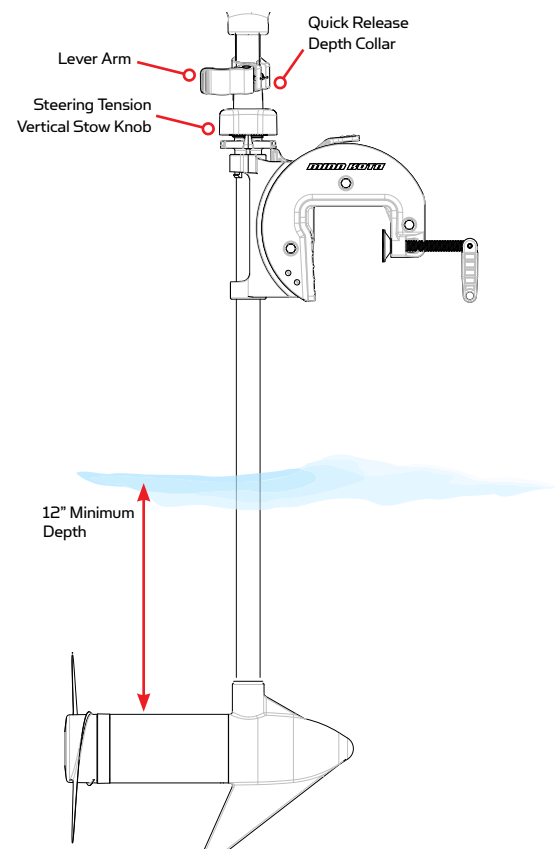
When setting the depth be sure the top of the motor is submerged at least 12" to avoid churning or agitation of surface water. The propeller must be completely submerged.

1. Firmly grasp the motor shaft and hold it steady.
2. Loosen steering tension knob.
3. Open the lever arm to loosen the Quick Release Depth Collar.
4. Vertically adjust the height of the motor to the desired position.
5. Bring the depth collar to the top of the steering tension knob, and close the lever arm to lock the depth collar into position.
6. Tighten the steering tension knob to achieve the desired steering resistance.

**NOTE:** The tension of the quick release depth collar can be adjusted with a screw driver to obtain the proper feel.

### CAUTION:

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



## 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.

## USING & ADJUSTING THE MOTOR

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### ADJUSTING THE TILT/EXTEND TILLER

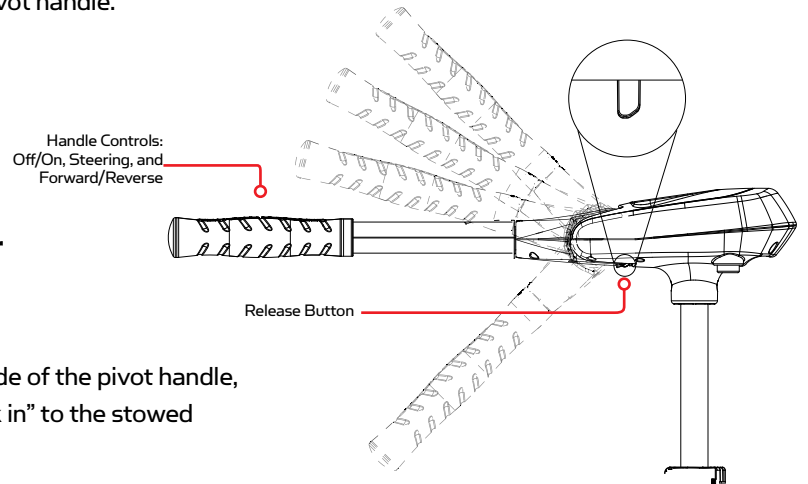
Your trolling motor features 7 usable handle tilt positions: 45°, 30°, and 15° up and down from the 0° (horizontal) position. To use the down positions, you must first press the release button located on the left underside of the pivot handle.

Your trolling motor handle also features a unique stow position, that is useful for limiting the amount of space required for storage or travel.

**Important: BEFORE attempting to put the handle in the stowed position, the speed selector must be in the OFF/STOW position . Failure to do so will damage the internal mechanism.**

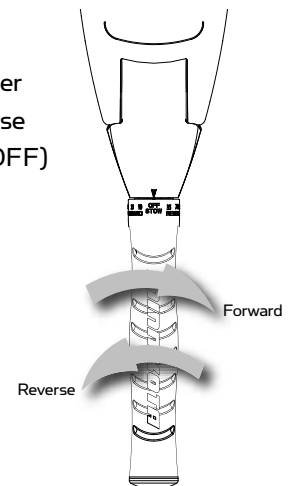
First press the release button located on the left underside of the pivot handle, then push the handle down until you feel the handle “lock in” to the stowed position. This will be almost parallel to the motor shaft.

To extend the handle, pull the handle towards you to the desired position. The handle will extend a full 6 inches. To retract, push the handle in until it meets the face of the motor control head.



### CONTROLLING SPEED & STEERING WITH THE TILLER

This motor offers variable forward and reverse speeds. The speed control may be operated in either direction, forward or reverse. Turn the tiller handle counterclockwise from (OFF) to increase reverse speed and clockwise from (OFF) to increase forward speed. Speed decreases as you approach (OFF) from either direction.



# SERVICE & MAINTENANCE

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## PROPELLER REPLACEMENT

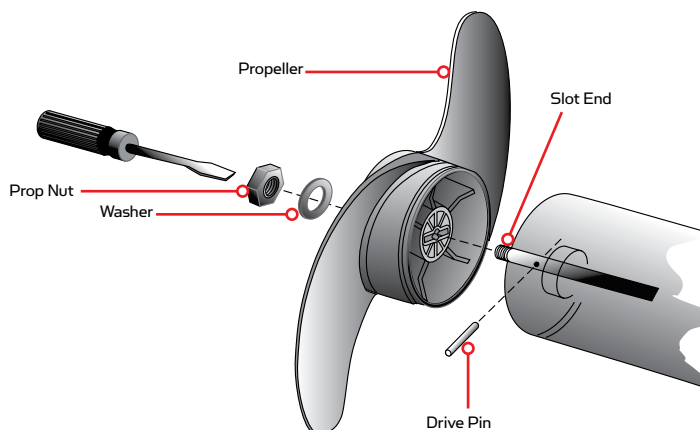
### TOOLS AND RESOURCES REQUIRED:

- 7/16" Box End Wrench
- 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. 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.

# COMPLIANCE STATEMENTS

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## ENVIRONMENTAL COMPLIANCE STATEMENT:

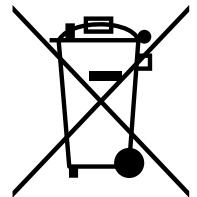
It is the intention of JOME to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

## 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.

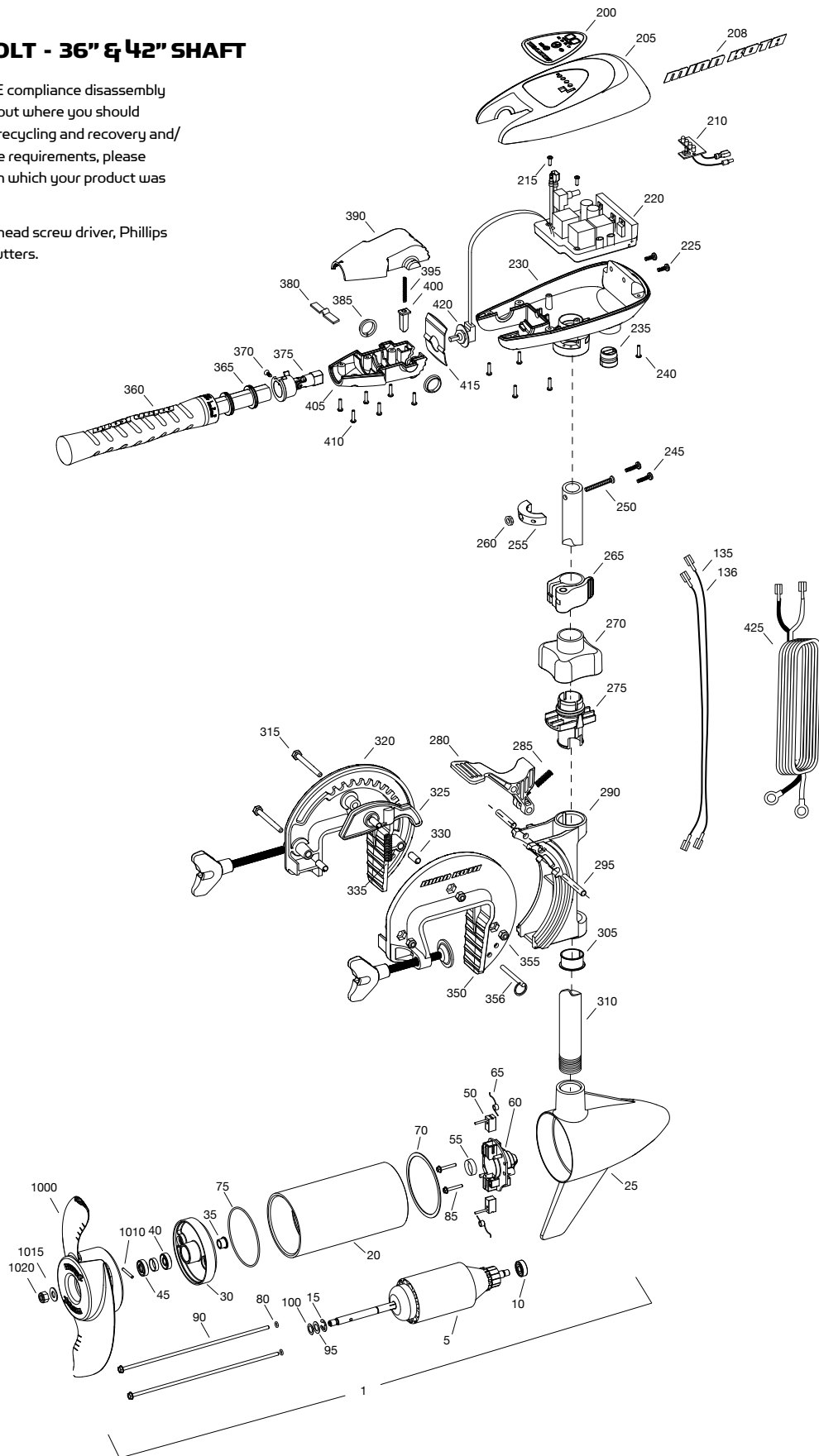
**WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**

# PARTS DIAGRAM

## TRAXXIS 55 55 LBS THRUST - 12 VOLT - 36" & 42" 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

## TRAXXIS 55

### 55 LBS THRUST - 12 VOLT - 36" & 42" SHAFT

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	2097074	12V MOTOR 42" FW
5	1	2-100-121	ARMATURE ASSEMBLY
10	1	140-010	BEARING
15	1	788-015	RETAINING RING
20	1	2-200-101	CENTER HOUSING ASSEMBLY
25	1	421-065	BRUSH END HOUSING ASSEMBLY
30	1	2-400-101	PLAIN END HOUSING ASSEMBLY
35	1	144-049	FLANGE BEARING
40	1	880-003	SEAL
45	1	880-006	SEAL WITH SHIELD
50	2	188-036	BRUSH
55	1	725-050	PAPER TUBE
60	1	738-036	BRUSH PLATE ASSEMBLY
65	2	975-040	BRUSH SPRING
70	1	337-036	GASKET
75	1	701-081	O-RING, MOTOR
80	2	701-008	O-RING, THRU-BOLT
85	2	830-007	SCREW, #8-32
90	2	830-042	THRU-BOLT
95	1	990-067	WASHER, STEEL
100	1	990-070	WASHER, NYLATRON
135	1	640-004	LEADWIRE, BLACK
136	1	640-105	LEADWIRE, RED
■	1	2888460	SEAL AND O-RING KIT
200	1	2065697	DECAL, C-BOX COVER
205	1	2060295	C-BOX COVER
208	2	2325665	DECAL - MINNKOTA
210	1	2074070	BATTERY METER, 12V FW
215	2	2043427	SCREW, #8 X 7/8 SS
220	1	2184016	CONTROL BOARD, 12V
■	1	2888411	POTENTIOMETER REPLACEMENT KIT
225	2	2303434	SCREW, #8-32 X 5/8 SS
230	1	2062501	CONTROL BOX, VARS, FW
235	1	2062905	STRAIN RELIEF
240	6	2303412	SCREW, #6-20 X 5/8 SS
245	2	2263434	SCREW, #8 X 18 SS
250	1	2383407	SCREW, #10-24 X 2 ZINC
255	1	2061515	COLLAR, C-BOX
260	1	2383124	NYLOCK NUT, #10-24, ZINC
265	1	2991521	CAM LOCK/DEPTH COLLAR ASSY

ITEM	QTY	PART NUMBER	DESCRIPTION
■	1	2991795	BRACKET ASSY, COMPOSITE [270-356]
270	1	2060100	KNOB, STEERING TENSION, SOFT
275	1	2068400	COLLET
280	1	2064200	LOCK ARM
285	1	2062701	SPRING, LOCK ARM
290	1	2061821	HINGE
295	2	2062602	PIN, LOCK, ZINC
305	1	2037301	BUSHING, HINGE
310	1	2032052	TUBE 36"
	1	2032053	TUBE 42"
315	3	2063500	BOLT 1/4-20 X 2 3/8", ZINC
320	1	2771950	BRACKET, RIGHT, FW
325	1	2067905	CAM DEACTIVATOR
330	3	2067306	BUSHING, DOWEL 1/4 X 1/2
335	1	2062702	SPRING, CAM DEACTIVATOR
■	2	2881380	CLAMP SCREW KIT
350	1	2771955	BRACKET, LEFT, FW
355	3	2263104	NYLOCK NUT, 1/4-20, ZINC
356	1	2062604	PIN, STOP
■	1	2990957	HANDLE ASSY, VARS [360-410]
360	1	2990456	GRIP/HANDLE ASSY, VARS [360-375]
365	2	2060015	BEARING, HANDLE
370	2	2063405	SCREW, #6 X 1/2 PFH SS
375	1	2884092	YOKE / SPIDER ASSY, VARS
380	1	2302742	SPRING, DETENT, OFF
385	2	2060005	BEARING, HANDLE PIVOT
390	1	2060900	HANDLE PIVOT, TOP
395	1	2302745	SPRING, RELEASE BUTTON
400	1	2063700	BUTTON, RELEASE
405	1	2060905	HANDLE PIVOT, BOTTOM
410	6	2303412	SCREW, #6-20 X 5/8 SS
415	1	2062715	SPRING, HANDLE PIVOT
420	1	2061700	WASHER, POT HOLDER
425	1	2992523	LEADWIRE ASSY, INCLUDES [235]
■	1	1378170	PROPELLER KIT
■	1	2994875	PROPELLER BAG ASSY
1000	1	2091170	PROPELLER
1010	1	2092600	DRIVE PIN, LARGE
1015	1	2151726	WASHER, PROP, STANDARD
1020	1	2053101	NUT, NYLOCK, PROP, MEDIUM

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