

ELECTRIC KAYAK COMPANY

Installation Instructions

Parts Terminology

Control Box	Contains the speed switch, kill switch and fuse
Minn Kota (MK) Hinge	Located on the motor shaft with a quick release pin
Tension Screw	Located on the MK Hinge
Tiller Arm	Located above the hinge for height adjustment and steering
Drops	Stainless steel pins with rings for steering cable attachment
Base Plate	Attaches to the kayak and holds the motor bracket
Magnetic Catch	Holds the motor when in reverse
Ball Mount	Holds the Control Box
Cable Stops	Maintain steering cable tension at each pedal

Materials, Parts and Tools Not Included

- ❖ Battery Box with Lid
- ❖ Drill
- ❖ Rivet Tool
- ❖ Tape Measure
- ❖ Silicone Sealant
- ❖ Drill Bits
- ❖ Misc. Wrenches
- ❖ Sharpie Pen

General Information and Safety

If during your installation, you have any questions or concerns, don't hesitate to contact us. Our motor package should contain everything required for the installation, except those items listed above.

We suggest laying all the parts out, on a table or bench, to get familiar with the components. In addition, please read the instructions carefully. The instructions are generic and not all information will apply to your motor package.

You will need proper lighting & ventilation and we suggest wearing safety glasses when drilling holes.

Installation

We strongly suggest considering your battery location and wire harness runs to avoid drilling holes after having second thoughts later. It is best to have the kayak elevated to a comfortable and stable work height. The kayak should also be relatively level fore & aft as well as side to side.

Secure the battery box in your selected location. Remember, the battery **MUST** remain secure if the kayak rolls over. Proper balance, fore and aft is very important. We usually recommend placing the battery as close to the back of your seat as possible. Our battery harness length is usually made up accordingly. Also, the battery box requires a lid to avoid 'shorting' across the terminals. The lid also provides a mounting location for the box containing the circuit boards on our variable speed and wireless motors.

Although the motor bracket supplied is 'universal', for many kayaks we also supply a base plate specific to your make & model kayak. The base plate provides a flat, load bearing surface for the motor bracket to attach to. Some base plates are pre-drilled to corresponding inserts or mounting points on the kayak, some are not. Use sealant on holes required and we suggest using anti-seize lubricant on all stainless-steel fasteners to prevent galling. Once you have installed the base plate, attach the motor bracket with the supplied fasteners.

Hang the motor on the motor bracket utilizing the 'quick release' pin supplied. We suggest the upper tip of the prop be approximately five inches below the water surface to avoid cavitation. Height adjustment is accomplished by adjusting the tiller arm location up or down. Once adjusted, the tiller arm needs to be 90 degrees to the centerline & TIGHT.

Run the wiring harness, with the control box, up to your seating position. Attach the supplied RAM ball mount and attach the control box. Reusable harness ties are included for securing the harness. This also applies to the battery harness.

Steering cables are supplied with you motor package. They are braided stainless-steel covered with a vinyl wrap. The cables are supplied with stainless-steel thimbles, or loops, at one end. The thimbles attach to the rings on the stainless-steel 'drops' which are installed at each end of the tiller arm, ring end down. The 'drop' length helps reduce the steering cable angle at the motor. Route the cables forward to each pedal. This can be done internally or externally, depending on access to the interior of the kayak. Kayaks that are considered 'rudder ready' normally have tubes running internally for steering cable runs. If your kayak is equipped with 'brace' pedals, the cables can be attached by drilling a 1/8th inch hole in the upper outside corner of each pedal and running the cable thru using the supplied cable stops to adjust. You will need to remove the slide locks on the pedals for steering.

MAKE SURE THE TENSION KNOB ON THE MOTOR SHAFT HINGE IS LOOSE!! THE MOTOR MUST TURN FREELY.

The manual tilt kit is installed by locating the jam cleat by your seat and routing the rope aft to the fitting at the top of the motor shaft. Use the supplied 'D' rings for guiding the rope. There is a roller at the forward end of the motor bracket. The rope needs to go under the roller.

There is a magnetic catch on the motor bracket & motor shaft hinge. This prevents the motor from climbing out of the water in reverse. The washer side of the magnet, on the MK hinge must remain SLIGHTLY LOOSE to provide proper contact with the magnet on the motor bracket. This magnet assembly MUST be kept CLEAN for proper operation.

Important Notes

- ❖ The kill switch lanyard must be attached to operate.
- ❖ We HIGHLY RECOMMEND removing the motor while transporting. The bouncing places substantial stress on the bracket & the kayak. Pull the pin and swing the motor up into the kayak and secure it.
- ❖ ALWAYS wear a Personal Flotation Device (PFD).