

## Installing Reverse Pitch Prop

Below are the steps to replace your existing **LEFT (PORT) SIDE** motor prop with a reverse pitch prop. At the completion of the installation you will have installed the new prop and reversed the rotation of the **LEFT (PORT) SIDE** motor. (**LEFT (PORT) SIDE** refers to left side when you are sitting in the boat facing forward.)

Required tools:

#2 Phillips Screw Driver  
9/16" Wrench or Socket  
Wire Cutters  
Wire Crimping Tool  
Small amount of Sealant

- 1) Remove the seats and any loose objects from your boat.
- 2) Turn the boat on to it's right side to expose bottom of the boat with the **LEFT (PORT) SIDE** motor on the top side.
- 3) Remove the (6) Stainless Steel screws that secure the weed guard to the boat. Remove the guard.
- 4) **Use a gloved hand to hold the motor prop in place.**
- 5) Using a 9/16" socket or standard wrench, turn the prop nut on the backside of the prop counter clockwise to loosen and remove the nut and washer (**Diagram 1**).
- 6) Remove the prop from the motor. **NOTE:** To remove the prop you may need to wiggle and/or tap on prop to remove. **IMPORTANT:** The prop is prevented from rotating on the shaft of the motor by a Shear Pin. When removing the prop you will need to keep this pin for use with your new prop.
- 7) Making sure the Shear Pin is centered on the shaft (**Diagram 2**), slide the new prop on to the shaft making sure the pin is aligned with the slot on the back of the new prop. **NOTE:** To ensure alignment rotate the prop with your hand. If the pin is aligned with the slot the shaft will rotate with the prop.
- 8) Secure the new prop on the shaft using the nut and washer that you removed in step 5. Tighten until the nut is snug and you can not wiggle the prop by hand. The prop is now installed.
- 9) To reinstall the weed guard, put a small amount of sealant on the screw holes for the weed guard and reinstall the guard.
- 10) Lay the boat down, top side up.
- 11) Remove the SS screws securing the **LEFT (PORT) SIDE** seat rail and remove the rail.
- 12) Wires from the motor are connected to the control harness with Butt Connectors half way down the wiring trough. At this connection pull a short amount of additional wire from the hull.
- 13) **IMPORTANT STEPS** – To reverse the direction of the motor the power wires must be reversed. Using your wire cutters cut the wires on both sides of the butt connectors on the **RED** and **BLACK** wires going to the motor and discard the old connectors (**DIAGRAM 3**).
- 14) Using the supplied butt connectors and a crimping tool, splice the red wire to the black wire on both sets of wires. **NOTE:** This will reverse the rotation of the motor and is required for the new prop to operate properly (**DIAGRAMS 4a & 4b**).
- 15) Push the extra wire you pulled from the hull back into the hull and lay the wire flat in the wiring trough.
- 16) **IMPORTANT, IMPORTANT, IMPORTANT:** The opening for the wires coming from the motor is sealed with Raw Rubber. To prevent water from entering the hull of the boat at this location, make sure you push the sealant firmly back into place before you reinstall the seat rail (**DIAGRAM 5**).
- 17) Put a small amount of sealant on the screw holes for the seat rail and reinstall the rail.

Congratulations! The installation of your new reverse pitch prop is now complete.

**HOLD PROP IN PLACE WITH GLOVED HAND**



**TURN PROP NUT COUNTER CLOCKWISE**

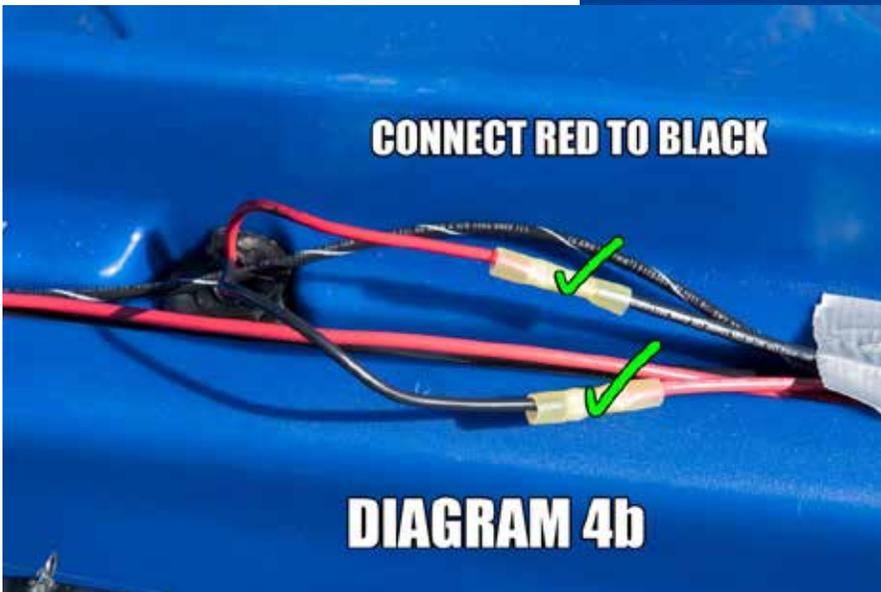
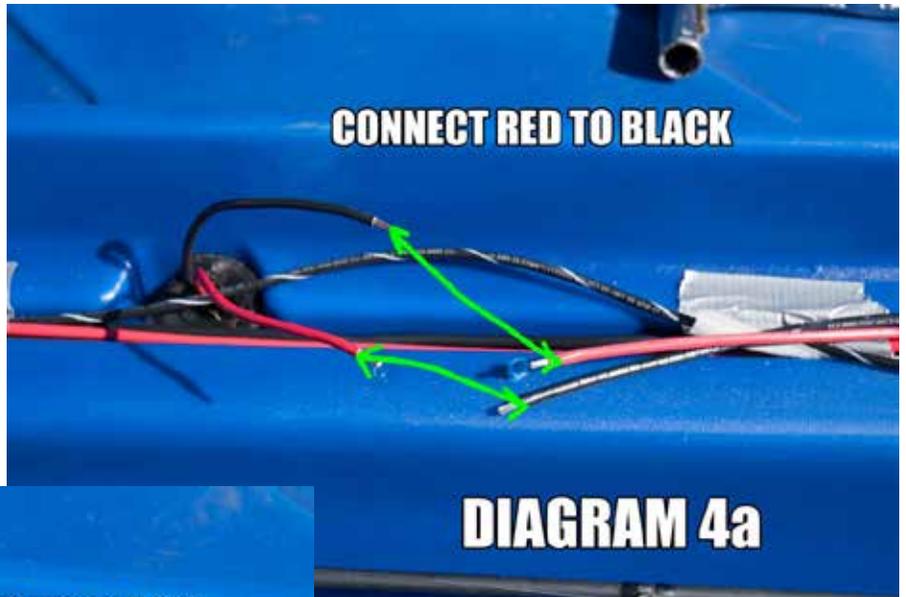
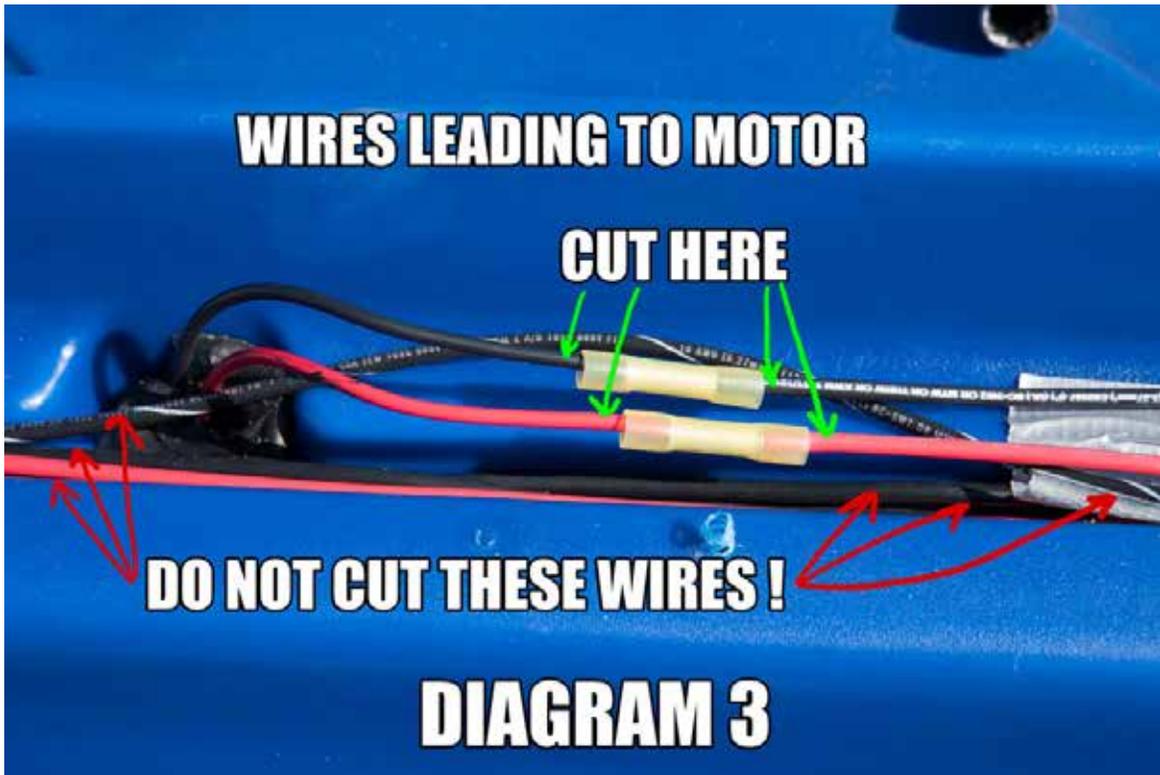
**DIAGRAM 1**

**SHEAR PIN IN PROP  
FOR ILLUSTRATION ONLY**



**SHEAR PIN POSITION THROUGH SHAFT  
THIS IS HOW IT SHOULD LOOK BEFORE INSTALLING NEW PROP**

**DIAGRAM 2**





**RAW RUBBER SEALANT**

**SCREW SEALANT**

**DIAGRAM 5**