



Breakdown Procedure for High Speed Electric Downriggers

(units prior to the redesigned 2011 downriggers)

(The later models do not require special steps for applying sealant, just ensure the gaskets are not damaged and tighten screws down evenly.)

- Step 1.** Remove the screws around the motor cover and remove the motor cover from the motor housing.
- Step 2.** At this point, switches, circuit breakers, control boards, and input and output ports can all be replaced. These items are usually held in place by a lock nut on the outside of the housing, or a boot that has a nut attached to it. All parts that protrude from the outside of the motor housing are sealed using Dow Corning® 795 sealant to keep the water out.
- Step 3.** Remove the gear case cover from the inside of the downrigger case.
- Step 4.** Unplug and remove the motor.
- Step 5.** Remove the downrigger cable from the reel, spooling it onto something that will prevent backlash so that you can put pool it back on when finished.
- Step 6.** Remove the brake knob from the frame on the right hand side of the downrigger, and also remove the bearing and bearing races from underneath the brake knob from the drive shaft.
- Step 7.** Slide the 3-digit counter away from the spool, if applicable, so that it is no longer in contact with the reel counter gear.
- Step 8.** Loosen the set screw in the center inside the reel. There are two holes: one is used to line up the set screw; the other is tapped to take the set screw. The set screw does not have to be removed, just loosened enough so that the reel shaft and drive shaft are free. When re-assembling the downrigger, make sure that you line up the hole in the reel shaft with the hole for the set screw. The set screw must pass into the hole correctly so that the downrigger does not slip.
- Step 9.** Push on the drive shaft from the right hand side of the downrigger so that it comes out of the gear case on the left hand side. Once clear of the gear case, pull the drive shaft, worm gear, clutch pad, and clutch plate out of the downrigger.
- Step 10.** There are three screws along the bottom of the motor housing that attach the housing to the frame. Remove those screws, and pry the housing from the frame. It is sealed as well to keep water out, so there will be resistance.
- Step 11.** To remove the reel, push out the reel shaft. If not free, you will need to loosen the set screw more so that it clears the reel shaft. Once the set screw is clear, lift the reel out of the frame. This completes the procedure.

NOTE: We recommend the use of Dow Corning® 795 sealant to keep the water out. (795 comes in black and white.) Also, the gear will have to have grease packed in to prevent friction. We recommend that you run the motor forwards and backwards to allow the grease to set.