



Positive Ion Control

The Positive Ion Control (PIC) system built into select Cannon Downriggers is based on the theory that game fish are attracted to the electronic signature of their prey. The PIC simulates this electronic signature to lure fish to the user. The PIC utilizes the drive train in the downrigger to pass the signal down the downrigger cable. There are two types available: Variable PIC, and Fixed PIC. The downriggers with variable PIC will have a PIC control knob on the back of the downrigger, which will allow you to adjust the PIC from .2V to 1.2V. The fixed PIC will always have an output of .55V.

To check to see if the PIC feature is functioning correctly, follow the steps below:

(NOTE: the use of steel cable is required – PIC will not function with monofilament or braided line as the cable.)

- Step1.** Using a VOM (multi-meter) set to take volt readings, touch the negative probe of the VOM to the power source negative. Touch the positive VOM probe to the downrigger cable. The reading should be .55V (on downriggers with fixed PIC) and will vary from .2V - 1.2V (with the adjustable PIC downriggers depending upon the position of the PIC control knob). If no reading is shown, proceed as to next step.
- Step 2.** Contact the positive probe of the VOM to the reel shaft that is visible underneath the drag knob while touching the negative VOM probe to the negative side of the power supply. If there now is a voltage reading (at the acceptable parameters stated in previous step) check the set screw to make sure it is making good contact with the downrigger cable.
 - A.** If there is no voltage reading - remove the motor housing cover. Touch the positive VOM probe to the green wire that is running to either the motor (low speed downriggers) or gear case cover (high speed downriggers) while touching the negative VOM probe to the power source negative.
 - A-1.** If there is a voltage reading now - check the set screw to make sure it is making good contact with the reel shaft.
 - A-2.** If still no voltage reading, replace control board.