Instructions

For

Dixon Bayco

FT450 Ground Bolt Test

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Installation

This procedure is for the test of a FT450 ground bolt using a Digital Volt-Ohm-Meter.

1. Step 1: Select a Digital Volt-Ohm-Meter capable of testing diodes. This can be determined by the present of a diode symbol on the meters scale selection knob. The diode symbol looks like Fig 1.

   Fig 1.

2. The ground bolt contains a diode with the Anode (+) connected to the bolt and the Cathode (−) connected to the green wire.

3. Turn the scale selection knob of your digital Volt-Ohm-Meter to the diode symbol. On certain models you may also need to press a (function) button to select the diode test function.

4. Touch the RED Digital Volt-Ohm-Meter lead to the ground bolt threaded body (if on tanker – connect RED to PIN 10). Then at the same time, touch the BLACK lead to the green wire (if on tanker – connect BLACK to PIN 9).

5. You should have a reading on the Digital Volt-Ohm-Meter of .485 to .700 volts. If the meter reads outside this range the ground bolt is defective.

6. Now switch the leads so the RED Digital Volt-Ohm-Meter lead is on the GREEN wire (if on tanker – connect RED to PIN 9) and the BLACK lead is on the ground bolt threaded body (if on tanker – connect BLACK to PIN 10).

7. The Digital Volt-Ohm-Meter should now read OPEN or OF which indicates an open circuit or very high resistance. You may need to consult the meter instruction manual to determine the proper indication for an open circuit. If the meter shows conductivity, then the bolt is defective.
Most problems with the ground bolt are associated with poor installation and corrosion on the metal to metal structural surfaces between the bolt and socket.

The ground monitor is looking for good continuity from pin 9 on the socket, to the ground bolt, through the trailer frame to pin 10 on the socket.

**Dixon Bayco Warranty**

For complete warranty information, please refer to the latest Dixon catalog.