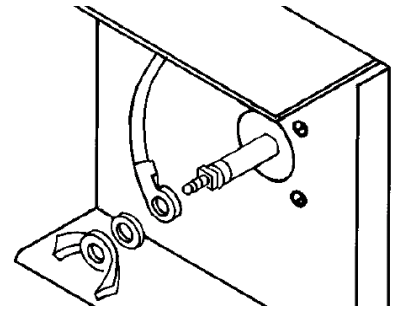


## #12 FIREDRAGON Field Notes©

### #200 Low-Water Cutoff Probe Evaluator

1. Shut off power to the appliance and remove the power lead from the probe, see **Figure 1**.
2. Using a meter set on the DC Scale  $V_{DC}$ ; place the **RED** lead of the meter in the **RED** jack on the Evaluator and the **BLACK** lead in the **BLACK** jack.
3. The meter **MUST** be connected to the Evaluator before Step 4 or damage to both the meter and Evaluator could occur.
4. Place the leads of the Evaluator together and observe the voltage of the battery output.
5. Place the **RED** lead of the Evaluator on the probe center pin. Place the **BLACK** lead on the grounding plate of the probe, the control case or onto the boiler to establish ground, **Figure 2**. Observe the voltage, it should be no more than 2 to 2-1/2 volts less than the battery output.
6. If the reading does not match, the probe must be removed from the boiler, cleaned and reinstalled according to the manufacturers (OEM) instructions.



**Figure 1**



**Figure 2**

### NOTES:

1. If erratic or no readings are obtained with your meter, replace the 9 volt battery (PP3) within the Evaluator. The rear cover can be easily removed.
2. On steam boilers the probe **MUST** be inspected yearly or according to the OEM's instructions. Failure to observe OEM guidelines may result in serious damage to the boiler, building and occupants. Do not use the Evaluator in place of a visual inspection of the probe during annual maintenance or troubleshooting on steam boilers. The Evaluator may be used to verify that the probe has been cleaned properly and is operating normally.