



TECHNICAL / FIELD SERVICE REPORT

SUBJECT: Meter Panel Calibration

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This is the procedure used to set and calibrate the meter panel. It is done with the console powered, and the lamp section on (the bulb is not struck, auto-strike off). Once the procedure is done, ignite the lamp and check measured readings against the display readings. A maximum variance of +/- .3 to .5 Volts for lamp voltage is allowed.

1. Zero Display: Adjust multi-turnpot R7 CCW until display reads "00.0" (+ .1 is OK)

2. Set Shunt Voltage for 50mV: With a digital multi-meter set for DC milli-volts, read between meter panel JP5 position 2 (black wire) and the bottom terminal of Switch 4 (Volt/Amp) and adjust R5 (multi-turn) for 50mV.

3. Set max meter voltage to 150V: Hold Volt/Amps switch to Volts, and set display reading to 150.0 by adjusting R7 CCW.

4. Set actual meter voltage: Measure open-circuit DC voltage across the lamp (power supply is on, but bulb not lit). Hold Volt/Amp switch on Volts and adjust R5 so display reads measured open circuit voltage.

Remove all test equipment, close the console doors, and strike the bulb. Compare displayed readings with measured readings, and check that they are within tolerance. Repeat the procedure if needed.