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Re: E4418B won't power on



7:02am 🔗 (https://groups.io/g/HP-Agilent-Keysight-equipment/message/128061)

Just fixed 2 units with the same problem. Though it is true that any leakage resistance in the switch or cable can be a problem, in my case I read very high resistance (>>10s megohm) between the power switch terminals. With the switch pushed in (closed) I read about 40 ohms for both units.

So in both units, I decided to read the voltage (ref to chassis) at the non-source side of the 51K resistor. The reading was about 0.6 volts w a reasonable high impedance DVM. The opposite side of the resistor was ~5 volts. This was true in both units. I measured the 51K resistor in circuit (button not pressed) and in one unit found a very high value of several hundred Kohms. Replaced the resistor and the unit then worked. The second unit measured 51K in circuit directly across the resistor terminals, but still measured a much lower voltage at the non-powered side of the resistor. Very odd as the meter used was high impedance! I replaced the resistor and the unit powered up and off correctly.

Also there can be question of contact corrosion in low current circuits for some units. The connectors may benefit from an application of deoxidizing oil. This is a well known corrosion phenomenon.

Further--the capacitor across the 215K resistor on the trigger input should be checked for leakage to ground.

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