

Re: Multimeter damaged when powered from regulated power supply.

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- *From:* "Geogle" <v2geo@xxxxxxxxxx>
 - *Date:* 5 Feb 2006 22:31:00 -0800
-

Chris wrote:

Geogle wrote:

Thanks much for the enlightening reply Chris.

It will be really helpful if you could give few more clarifications about the reply.

Chris wrote:

Geogle wrote:

Thanks to all help with ascii schematic, here are the figures again. In the DMM, I assume that HV probe is protected with respect to the Probe GND. But GND itself is not protected from the supply gnd. So adding the zener/filter cap must be good enough to protect the whole thing. Caution has to be taken to see that the >> entire thing is treated as a live circuit. In that way the battery thing may be more dangerous thing because changing the battery means, in case you forget to disconnect the probe you are in danger. (Just a thought!).

First Picture:

```
. DANGER HIGHVOLTAGE
.
.-----
.-----
```

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```
. L || 9V || Probe HV
. -----
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. |||
. ||| 7107 Mtr |
. MAINS | 9 V |||
. | Supply |||
. |||
.
```