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ESI 252 Impedance Meter

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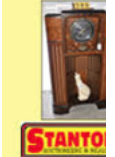
Author	Message
mlj4833 Member Joined: Aug Mon 13, 2012 8:54 am Posts: 86 Location: Kansas City, MO	Post subject: ESI 252 Impedance Meter Posted: Mar Tue 17, 2015 5:10 pm Is anyone familiar with the ESI 252 Impedance Meter? After making some test leads it seems to work correctly on all ranges and functions except when measuring caps above 2uF it reads very low. Do I have to use the bias feature to accurately measure larger caps? Secondly is there any significance to a flashing negative sign with the leads open and with the meter set to Capacitance or Conductance? Thanks Last edited by mlj4833 on Mar Wed 18, 2015 4:38 am, edited 1 time in total.
Findm-Keepm Member Joined: Sep Tue 30, 2014 6:08 am Posts: 5308 Location: Norfolk, VA	Post subject: Re: ESI 252 Impedance Meter Posted: Mar Tue 17, 2015 7:27 pm <div style="border: 1px solid black; padding: 5px;"> mlj4833 wrote: Is anyone familiar with the ESI 252 Impedance Meter? After make some test leads it seems to work correctly on all ranges and functions except when measuring caps above 2uF it reads very low. Do I have to use the bias feature to accurately measure larger caps? Secondly is there any significance to a flashing negative sign with the leads open and with the meter set to Capacitance or Conductance? Thanks </div> Tegam has the manual - are you using the manual? http://www.tegam.com/product.asp?modelNumber=252 Cheers, _____ Brian "Capacitor Cosmetologist since 1979" USN Retired 1984-2006 (Avionics/Cal)
mlj4833 Member Joined: Aug Mon 13, 2012 8:54 am Posts: 86 Location: Kansas City, MO	Post subject: Re: ESI 252 Impedance Meter Posted: Aug Sun 07, 2016 5:06 am I'm getting back to troubleshooting this meter and have downloaded all the manuals I could find online but only the 1985 ESI 253 manual has a schematic and it's incomplete. So does anyone have a schematic for the ESI 252 or 253? Finally any tips for troubleshooting the issue in the first post would be appreciated.
Chris108 Member Joined: Jun Fri 19, 2009 6:34 pm Posts: 9270 Location: Long Island NY	Post subject: Re: ESI 252 Impedance Meter Posted: Aug Tue 09, 2016 11:22 am You should not have to apply DC bias to get readings on larger capacitors. DC biasing will change the capacitance of many types of caps, so it gives a more realistic measurement, but in most cases it's only a matter of a few percent or so. You have to be extremely careful whenever applying DC bias to an LCR bridge or meter. They all do it in different ways and depending on how the supply and meter are wired, it is possible to cause a lot of malfunction and damage. In your case, one angle to check is that somebody put DC bias on the meter and damaged something so now ranges 5 and 6 don't work. But before doing that, I'd want to be very sure of the test leads and clips. These meters use 4-lead Kelvin leads and clips, and were so equipped from the factory. You don't have the option of using ordinary test leads. So if the original leads or clips are damaged or missing, you have to fix or replace them correctly. You also have to make sure that all four clip contacts are making good connection

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to the component being tested. The 4-wire system comes into play when the meter has to apply a little current to the test sample, e.g. for low resistances, high capacitances and conductances, etc.

"Hell, there are no rules here--we're trying to accomplish something!"

Thomas A. Edison

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PROFILE

mlj4833

Post subject: Re: ESI 252 Impedance Meter

Posted: Aug Tue 09, 2016 11:09 pm

Member

Thanks for the reply.

Joined: Aug Mon 13, 2012 8:54 am
Posts: 86
Location: Kansas City, MO

I made the leads in the photo using a Sullins EBM06DSEH connector with Gold plated Phosphor Bronze contacts (I think the original where Tellurium Copper) and some Belden 9452 cable which was wired per the wiring diagram in the second photo. I'd like to confirm weather the connector I used is OK and if it was correct to connect the shield to 2,B,4 and D.

Any other tips are appreciated.

Attachments:



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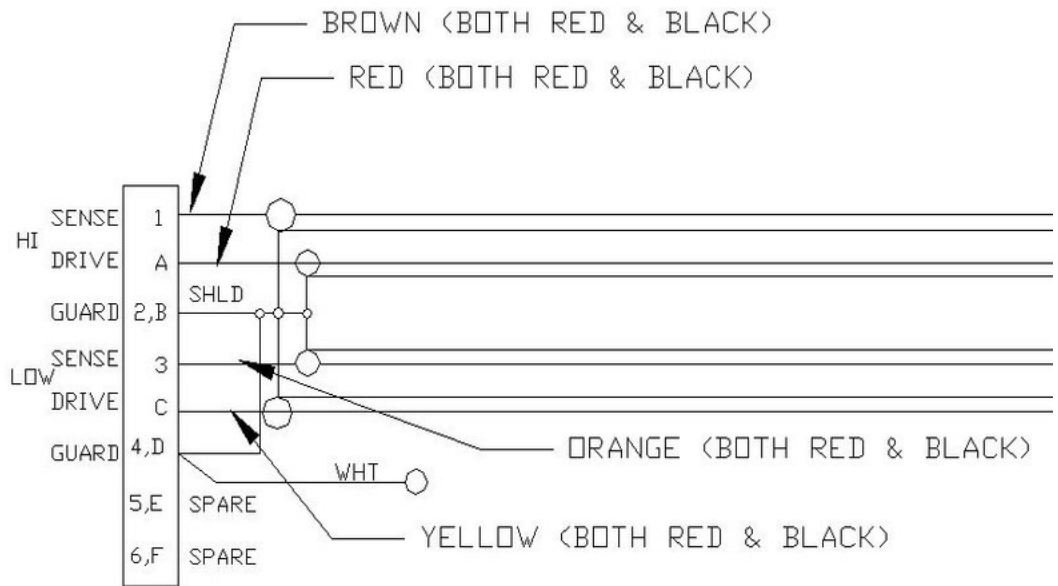
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