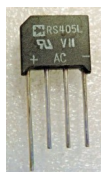


## Wire a digital volt meter to an AC transformer



Items needed to have your transformer give you a voltage reading during operation.

**AC Transformer**

**Digital Voltage Meter. Digital is DC Operation 5 volt to 30 volt readout**

**Bridge Rectifier 5 volt or higher**

**Capacitor 100 uf**

**Heat Shrink tubing 1/8th inch**

**About 1 foot of four colors of wire. I chose the below colors.**

**White for AC common**

**Orange for AC Hot**

**Black for DC Negative**

**Red for DC positive**

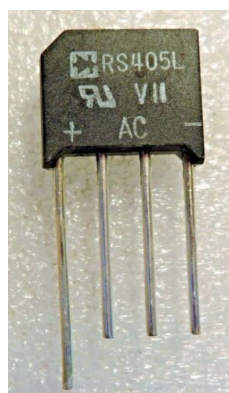
**Cut the four wires into 2 6 inch pieces**

**Skin about 3/16 inch off of each of the four colors of wires**

**Tin the ends of the wires**

**Also tin the four leads from the rectifier.**

**After all are tined then solder the wires to the Rectifier**



**Red to the + lead**

**Orange on the AC lead next to the DC positive**

**White on the AC Lead next to the DC negative**

**Then black on the DC Negative.**

**Cut off 4 pieces of heat shrink about 1 inch long**

**Slide the heat shrink all the way up to cover the leads on the rectifier**

**Use a hair drier or a match and shirk the tubing in place**

**Capacitor has two leads Positive and Negative**

**Helps to keep the read out steady**



**Use the two pieces of the Red and Black wire that is left**

**Skin off bout 3/16th inch of the wire**

**Tin the two leads and the two wires**

**Solder the Black to the Negative and the red to the Positive Lead**

**Cut off 2 pieces of heat shrink about 1 inch long**

**Slide the heat shrink all the way up to cover the leads on the capacitor**

**Use a hair drier or a match and shirk the tubing in place**

## Wire a digital volt meter to an AC transformer



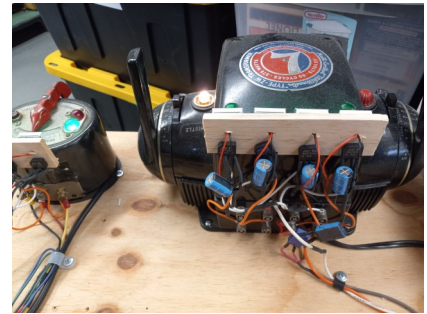
The Voltage meters I purchased had 2 leads about 6 inches long.

1 red and 1 black wire

### It is time to assemble all the parts together.

Attach all three of the Black wires together  
Attach all three of the Red wires together  
Cover with heat shrink tubing and shrink the tubing in place.

Attach the white wire to the AC common terminal  
Attach the Orange wire to the AC hot terminal



Plug in the transformer and you are ready to test your meter.

After testing I simply Hot Glued my meter to a small piece of 3/16 th plywood and then I hot glued the board to the back of my transformer. I also hot glued the Rectifier and the Capacitor to the back of the plywood out of sight.

Note I have found that my meters seem to read about 1 volt less than my commercial test meter.

Please note that I have wired up for to each of my ZW and KW transformers

You will need a complete set for each circuit.

I attached all 4 white wires together and put on one of the common pins in back.

Each orange wire its attached to the other hot terminals A B C D

