Make your own Resistance soldering station

Based on internet article by

Don Thomas

At this link

http://www.trainweb.org/bristol-s-gauge/Projects/rsu.html

This is a brief description and pictorial how to build your own resistance soldering station for use on brass, copper and tin to build models.

Here we have first the wiring up of the transformer part number from Digikey 237-1257-ND

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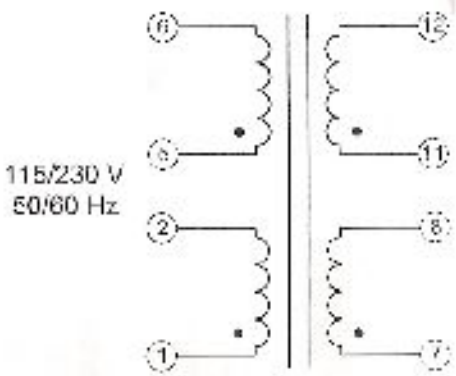
POWER TRANSFORMERS
CHASSIS MOUNT – VO 8LD SERIES

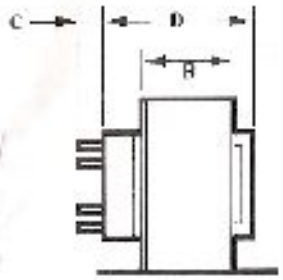
80033 REV E

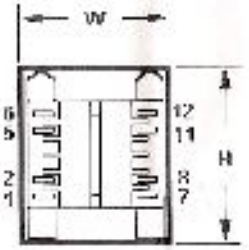
INPUT		SECONDARY		POLARITY		
		ARRAY	SERIES	SERIES OUTPUT	PARALLEL TIE	PARALLEL OUTPUT
115V	2 TO 3 & 1 TO 5	270	135	7 TO 8	12 TO 5, & 11 TO 7	6 TO 7
230V	2 TO 3	135				

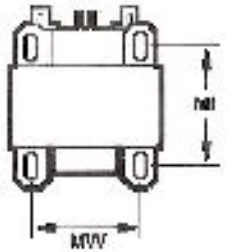
TECHNICAL NOTES:

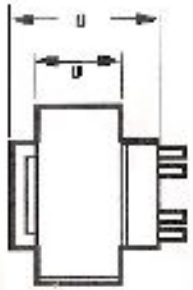
1. HI-POT TESTED AT 4,000 VRMS
2. BOTH PRIMARY AND SECONDARY COILS MAY BE CONNECTED FOR SERIES OR PARALLEL OPERATION, BUT BOTH MUST BE USED SIMULTANEOUSLY
3. LETTERS TO POLARITY

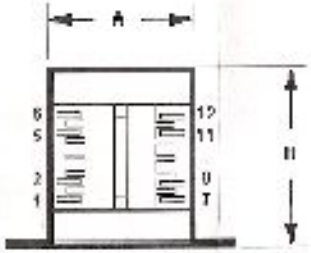


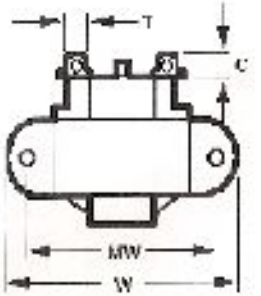




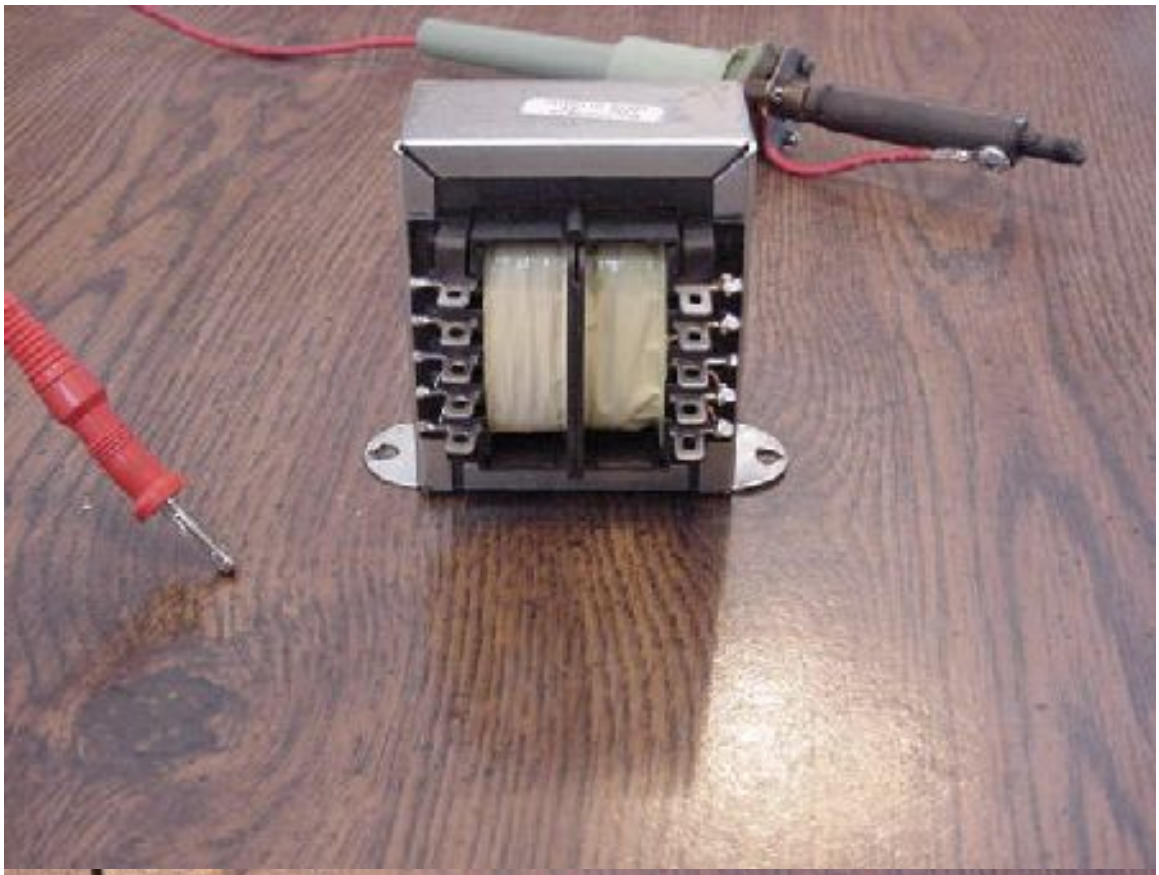


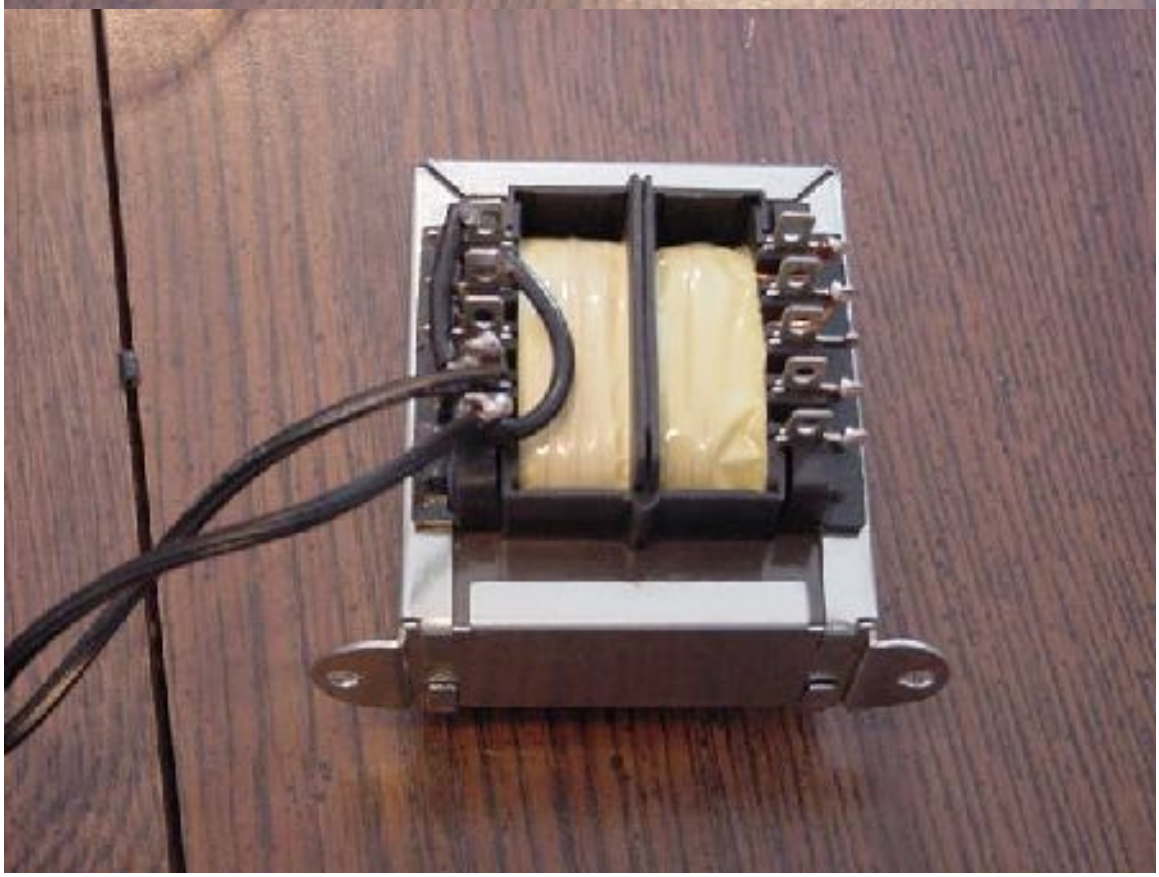


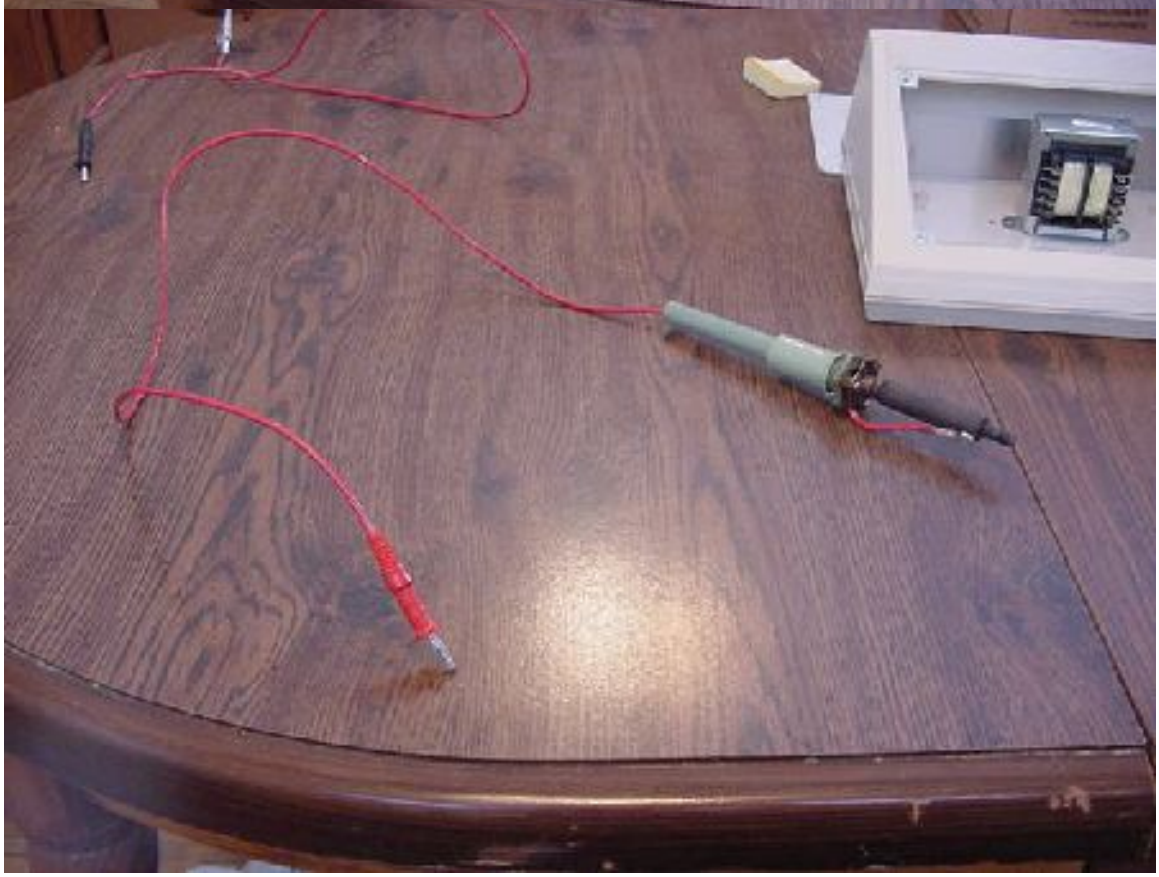




Be sure to use the right size wire, 18 gauge stranded wire to wire up primary side for 115Vac(power from outlet) And 14 gauge stranded wire for secondary side of transformer and banana jacks and probe wires(hand piece and alligator lead)







Now mount transformer to enclosure and make an entrance hole for power cord in the enclosure (I used a nibbler, depending on style of enclosure you may drill the hole and do not forget to use a strain relief for power cord)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