"CALIBRATING A SIMPSON 260 VOM"

DISCLAIMERS

- -I AM NOT A METROLOGIST!
- I DON'T HAVE "TRACEABLE" STANDARDS
- MY METHODS ARE NOT CERTIFIED
- I AM ONLY SHOWNE THE VOLTREE
 ADJUSTMENTS (NOT CHRENT SHOWTS)
 - -I AM NOT TAKING GREAT CARE ABOUT
 METER ORIENTATION

MY INTENTIONS

- EXPLAIN & DEMONSTRATE WHAT EACH ADJUSTMENT DOES
- APPLIES TO SERIES 4 AND UP

THE SIMPSON 260 RANGE ACCURACY
DEPENDS ON:

- -THE METER MOVEMENT HAVING *!

 FULL SCALE = 50 µA
- -THE CORE METER CIRCUIT RESISTANCE #2

 IN THE 50NA FULL SCALE RANGE

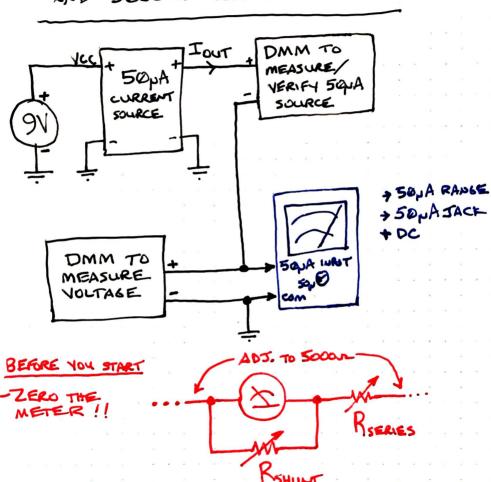
 EWUAL TO 5000 J.
- PRECISION RESISTORS USED IN SERIES *3
 TO ESTABLISH EACH VOLTAGE RANGE
- FOR AC RANGES, ADDITIONAL SHOUT *4
 RESISTORS ARE USED

NOTES:

- 1) NOT ADJUSTABLE ON SERIES 3
- 2) ADJUSTABLE ON SERIES 3-8
- 1) NOT ADJUSTABLE
- 4) TWO ADJUSTMENTS (LOW & HIGH RANGE)

3 WZAEW

ADJUSTING 50 PA FULL SCAUE AND 5000 IZ CORE RESISTANCE



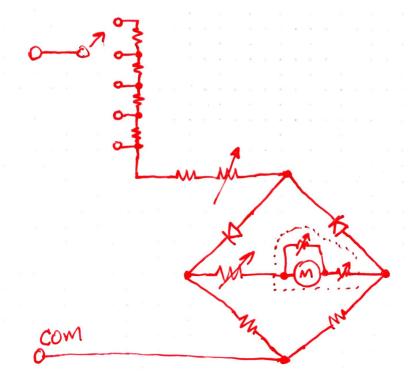
STEPS

- DVERIFY 50 NA CURRENT
- 2) ADJUST RSHUNT FOR FULL SCALE
- 3) ADJUST RSERIES FOR 250 mV ON DAM

ADJUST AC VOLTAGE RANGES

(SEE DIAGRAM W "THEORY OF OPERATION")

- 1) ADJUST RESISTOR "INSIDE" THE BRIDGE ON 250 VAC RANGE
- 2) ADJUST SERIES MULTIPUER RESISTOR ON 2.5VAC RANGE





MY 500A CURRENT Source

