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DCV REANGE:

- a. Set the SWITCH to the "DCV 200V range" & input a standard regulated voltage around DC 180 V to the input terminal.
- b. Adjust the VR8, until the display reading exactly same as the above voltage values of a.
- c. Set the SWITCH to the "DCV 1000V range" & input a standard around DV 1000V and check the display reading if it can match the spec. accuracy or not?

ACV REANGE:

- a. Set the SWITCH to the "ACV 200V range" & input a standard regulated voltage around AC 180 V to the input terminal.
- b. Adjust the VR3, until the display reading exactly same as the above voltage values of a.
- c. Set the SWITCH to the "ACV 750V range" & input a standard around AC 700V and check the display reading if it can match the spec. accuracy or not?

OHM RANGE:

- a. Set the SWITCH to the "OHM range".
- b. Then input a standard resistor, its resistance value is 1000 OHM, then check the display reading if it can match the spec.accuracy or not?

CURRENT REANGE:

- a. Set the SWITCH to the "ACA 200A range" & input a standard regulated ACA around AC 100 A to the JAWS.
- b. Adjust the VR4, until the display reading exactly same as the above ACA values of a.
- c. Set the SWITCH to the "ACA 400A range" & input a standard ACA around 300A to the jaws and check the display reading if it can match the spec. accuracy or not?

DCA ZERO ADJUSTMENT:

Set the SWITCH to the "DCA 200A range" & don't input any signal to the JAWS, then adjust VR2 to let the display reading value can change within +/- 20.0-40.0 when rotate the knob of VR5 from min. degree to max. degree.

PEAK HOLD:

- a. Set the SWITCH to the "DCV 200V range" & input a standard regulated voltage around DC 9.0 V to the input terminal, then slide the PEAK HOLD SWITCH to "PEAK HOLD" position.
- b. Adjust the VR7, until the display reading exactly same as the above voltage values of a.

DATA HOLD:

Push the DATA HOLD SWITCH will hold the display reading on LCD.

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(1) DCV:

- A. DCV can not make measurement:
 - a. First please check the voltage between COM & V+, if it is around the DC 2.7V.
 - b. Then check the voltage between the COM & the center point of VR8, if the voltage is the DC 100mV.
 - c. Check the Function switch, R36, R37, R35, R48.
- B. DCV not keeping within spec. accuracy:
 - a. Check the voltage between the COM & the center point of VR8, if the voltage is the DC 100mV.
 - b. Then check if any defective of R36, R37, R35, R48.

(2) DCV NOT ZERO (when short the input terminal, but the display can not show 0 reading):

- A. Check PIN38, PIN39, PIN40 of IC7116, if it has O.S.C. signal output.
- B. Check if any defective of C14, C16, C17, C15, C13, R38, R39, R40, R41.
- C. Check if the voltage between the COM and PIN36 of IC7116 is DC 100mV. If not, please check VR8, VR9, R43, R44 or make the new calibration procedure.

(3) ACV can not under normal operation:

- A. When add an ACV signal to the input terminal, then check if any signal on the IC7116 input (C12)?
- B. Check if any defective components of AC/DC circuit: U2, C2, R8, R9, R7, D1, D2, R6, C8, C5, C6, C11, D4, D3, R20, R21, R22, R23, C10, VR3.

(4) ACA can not under normal operation:

- A. Input a ACA current signal to the JAWS, then check any signal on the SENSOR output.
- B. Check if defective components of U5, U4, R49, R50, R19, R5, R18, R4, R17, R4, R3, R14, R13, C3, C4, VR4, VR1.

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(5) DCA ZERO adjustment have problem:

Check VR2, R15, VR5, R16, R12.

(6) PEAK HOLD FUNCTION can not under normal operation:

Check if any defective components of U3, R10, C9, R34, R33,
VR7, Q3, C12.

(7) LOBAT have problem:

Check if any defective components of R30, R24, R25, R51,
D5, Q2, U1.

(8) OHM range have problem:

Check if any defective components of R45, D6, PTC, D7, R46.