

Model 2002 Calibration Procedures

June 28, 1991

1. Required equipment

(1) DC power supply	: 9V DC	1 pce.
(2) AC voltage generator	:	1 pce.
(3) AC clampmeter test bench	:	1 pce.
(4) Standard resistance box	:	1 pce.

2. "Low battery warning" calibration

- (1) Set the range switch to "OFF" position.
- (2) Connect DC power supply to the battery hook and set it to 9V DC.
- (3) Check that nothing appears on the display of the instrument.
- (4) Set the range switch to 200V AC range.
- (5) Vary the voltage of the power supply and adjust VR3 so that "B" sign appears on the display at 6.9V and disappears at 7.1V.

Following calibrations are carried out with 9V DC power supply.

3. AC Volt range calibration

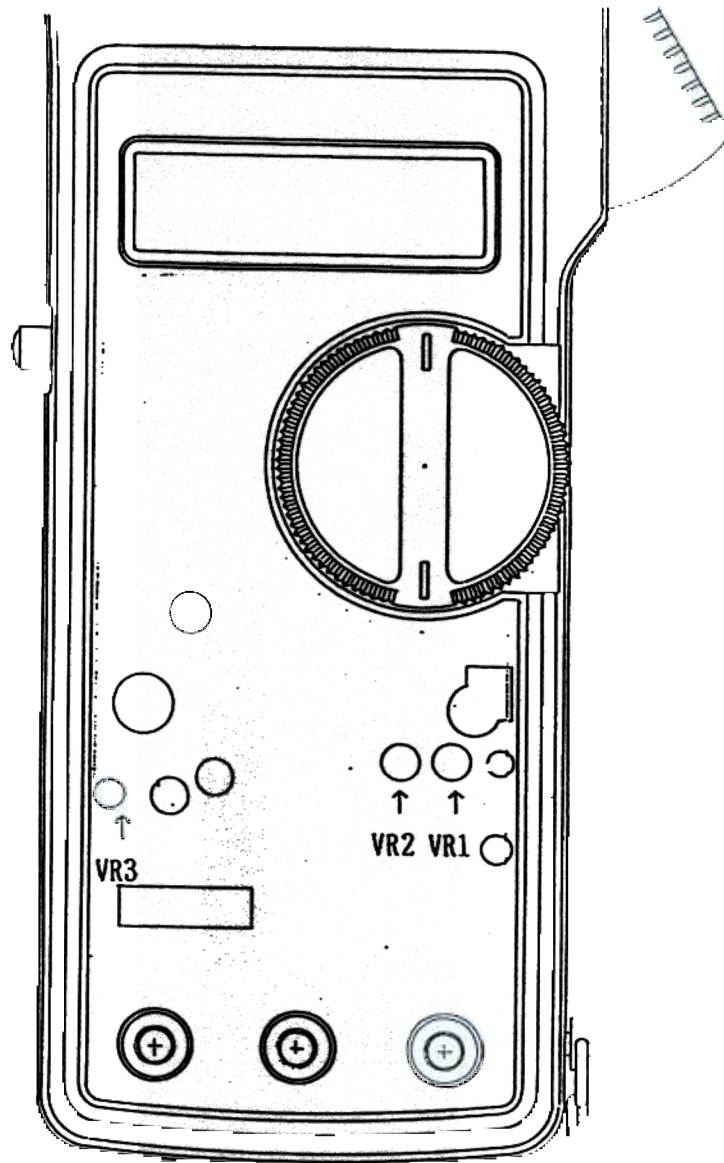
- (1) Set the range switch to 200V AC.
- (2) Connect COM terminal and VOLT terminal of the unit to the low output terminal and the high output terminal of the AC voltage generator respectively.
- (3) Set the generator to 190.0V AC.
- (4) Adjust VR2 so that the display reads between 190.0 and 190.2.
- (5) Set the range switch to 750V AC and check that the display reads between 189 and 191.

4. AC Ampere range calibration

- (1) Remove connection leads used in step 3 from the instrument and set the range switch to 200A AC.
- (2) Clamp the transformer jaws of the instrument onto the conductor of the AC clampmeter test bench and set the test bench to 190.0A AC.
- (3) Adjust VR1 so that the display reads 190.1 or 190.2.
- (4) Set the range switch to 2000A AC and check that the display reads between 189 and 191.

5. 200 ohm range calibration

- (1) Set the range switch to 200 ohm.
- (2) Using the standard resistance box, apply 190 ohm resistance across OHM and COM terminals of the instrument.
- (3) Check that the display reads between 187.9 and 192.2.
- (4) Press Data Hold switch to freeze the reading and set the resistance box to 0 ohm.
- (5) Press the Data Hold switch again to release the reading and check that the display reads between 00.0 and 00.2.



00 16116

CODE	SYMBOL	DESCRIPTION	REV.
3420	.C.		
		LCD F2034-32P1 or equivalent	1
3418	Q1		1
1099	Q2,3	IC uPD4030BC or equivalent	2
3297	Q4	IC TC4053BC or equivalent	1
2604	TR1	Transistor JC501 or equivalent	1
3444	D3	Zener Diode 1N4739	1
		WZ061	1
			2
	PTC	PTC Thermistor 911P97E501YV10	1
3422	R1,2	Metal Glaze Res. 1/2WF 5M	2
"	R3,6	Metal Film Res. 1/4WD 9k	2
"	R4,7	" " " " 1k	2
"	R31	" " " " 1/6WF 100k	1
"	R29	" " " " 47k	1
"	R27	" " " " 27k	1
"	R11,12,13	" " " " 1.8k	3
"	R10	" " " " 1.3k	1
"	R28	" " " " 1k	1
"	R17	" " " " 1/6WD 100	1
"	R16	Carbon Film Res. 1/2WJ 200k	1
"	R9	" " " " 1/6WJ 2.2M	1
"	R19,20,30	" " " " 1M	3
"	R22 - 26	" " " " "	5
"	R14,15,32	" " " " 200k	3
"	R21	" " " " 1/6WJ 100k	1
"	R8	" " " " 10k	1
"	R18	" " " " 2k	1
"	R5	" " " " 2WF 3	1
3608	VR3	Variable Resistor V6EK-PV B-200k	1
3421	VR1	" " " " B-5k	1
3620	VR2	" " " " B-500	1
1754	C2	Electrolytic Capacitor 33uF 16V	1
1745	C4	" " " " 10uF 16V	1
3749	C8	" " " " 1uF 50V	1
2542	C6	MKT Capacitor 0.47uF 63V	1
2543	C5	" " " " 0.22uF 63V	1
1759	C1	" " " " 0.01uF 50V	1
			1
		Push Switch SPJ-222	1
3084		Transformer Jaws complete	1
0526		Safety Wrist Strap	1
3127		Heat Resistant Vinyl Lead Wire	

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