

VC220 Calibrating Instruction (I)

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一、 Inspection Items

- 1、 Diode 、 Buzzer、 Ω Function

二、 Calibrating Instruments

- 1、 Standard IN4007 Diode、 10 Ω /90 Ω Resistor
- 2、 Standard 19 Series Resistor Boxes or Single Resistor

三、 Inspecting Procedures

Change the Rotary switch to Ω 、 , input test resistor or diode from Ω HZ \rightarrow COM . Please inspect according to the procedure in the table below:

Step	Function	Display for no input signal	Input Value	Test Readings Range	Bouncing Digits	Remark
1		OL	+Voltage descends	0.5V ~ 0.8V	/	/
2			10 Ω /90 Ω Resistor	Input 10 Ω Beeps, 90 Ω not Beeps		
3	200 Ω		190 Ω	(188.7~191.3) + R	4	$\pm(0.8\%+3)$
4	2k Ω		1.9k Ω	1.887~1.913		
5	20k Ω		19k Ω	18.87~19.13		
6	200k Ω		190k Ω	188.7~191.3		
7	2M Ω		1.9M Ω	1.887~1.913		
8	20M Ω		19M Ω	18.81~19.19	6	$\pm(1.2\%+5)$

***Remark:**(1) The test reading hereinbefore retrench as a rate of 70% ,When the specification can not reach test requirment , inform the engineer to broaden the relevant specification, then carry out the specification as clients required .

(2) R is the value in short -circuit.

四、 Notes

- 1、 Be sure display no input singal become steady before input stated value.
- 2、 Pack the Meter after input value became steady, and bouncing digits is less than bouncing values
- 3、 Caliberate the on/in bubble bags, and put defects or eligible meters into different plastic box orderly in bubble bags.
- 4、 Before the calibrator gives input to the Meter, make sure a proper function has been selected , forbid change function in input state.
- 5、 Inspect the LCD display when open the Meter, there should no extra stroke 、 shadow、 leakage、 scratch damage or dirt.
- 6、 Turn the Rotary Switch to OFF position or take out the battery.

VC220 Calibrating Instruction (II)

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一、 Inspection Items

- 1、 DCV Calibration and inspection of different Ranges
- 2、 Battery Calibrating

二、 Calibrating Instruments

- 1、 NJ19 or YJ190 DC Standard Voltage Current Source.
- 2、 Non-inductive Flat Head Screw.
- 3、 1.5v and 9v Single Battery.

三、 Inspecting Procedures

Change the rotary switch to DCV function, input test voltage from V Ω HZ \rightarrow COM. Please inspect according to the procedure in the table below :

Step	Function	Display for no input signal	Input Value	Test Readings Range	Bouncing Digits	Remark
1	200mV	Short-Circuit \pm 00.1	190mV	189.7~190.3	2	$\pm(0.5\%+2)$
2	2V	\pm .001	1.9V	1.893~1.907		
3	20V	\pm 0.01	19V	18.93~19.07		
4	200V	\pm 00.1	190V	189.3~190.7		
5	1000V	\pm 001	1000V	993~1007	4	$\pm(0.8\%+3)$
6	1.5V	\pm 0.01	1.5V	About1.5V	/	/
7	9V	\pm 0.01	9V	About9V		

Remark: The test readings hereinbefore retrench as a rate of 60%, when the specification can not reach test requirement, inform the Engineers to broaden the relevant specification, then carry out the specification as clients required.

四、 Notes:

- 1、 Be sure display for no input signal become steady before input stated value.
- 2、 Pack the Meter after input value became steady ,and bouncing digits is less than bouncing values.
- 3、 Calibrate the Meter on/in bubble bags, and put defects or eligible meters into different plastic box orderly in bubble bags.
- 4、 Before the calibrator gives input to the Meter, make sure a proper function has been selected, forbid change function in input state.
- 5、 Inspect the LCD display when open the Meter, there should no extra stroke, leakage, scratch,damage or dirt.
- 6、 Turn the Rotary Switch to OFF position or take out the battery.

VC220 Calibrating Instruction(III)

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一、 Inspection Items

- 1、 ACV Calibrating and Inspection of Different Ranges

二、 Calibrating Instruments

- 1、 NJ20 or YS200 AC Standard Voltage Current Source
- 2、 Non-inductive Flat Head Screws

三、 Inspecting Procedures:

Change the Rotary Switch to the ACV function, input test voltage from $V \Omega HZ \rightarrow COM$. Please inspect according to the procedure in the table below.

Step	Function	Display for no input signal	Input Value	Test Reading Range	uncing Di	Remark
1	2V	hort-circuit ± 0.00	1.9V/60HZ	1.888~1.912	4	$\pm(0.8\%+5)$
2	20V	± 0.01	19V/60HZ	18.88~19.12		
3	200V	± 00.1	190V/60HZ	188.8~191.2		
4	750V	± 001	750V/60HZ	742~758	5	$\pm(1.0\%+5)$
5			750V/400HZ	742~758		

Remark: The test readings hereinbefore retrench as a rate of 60%, when the specification can not reach test requirement, inform the Engineers to broaden the relevant specification, then carry out the specification as clients required.

四、 Notes:

- 1、 Be sure display no input signal become steady before input stated value.
- 2、 Pack the Meter after input value became steady, and bouncing digits is less than bouncing values.
- 3、 Caliberat the on/in bubble bags, and put defects or eligible meters into different plastic box orderly in bubble bags.
- 4、 Before the calibrator gives input to the Meter, make sure a proper function has been selected , forbid change function in input state.
- 5、 Inspect the LCD display when open the Meter, there should no extra stroke 、 shadow、 leakage、 scratch damage or dirt.
- 6、 Turn the Rotary Switch to OFF position or take out the battery.

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一、 Inspection Items:

1、 DCA Calbrating and Inspection of Different Ranges

二、 Calibrating Instruments

1、 NJ19 or YJ190 DC Standard Voltage Current Source

2、 YJ27-C Transistor Current Stabilizer

3、 Cutting Pliers and Soldering Iron

三、 Inspecting Procedures:

Change the Rotary Switch to the DCV, test electric current from 20A /mA → COM. Please inspect according to the Procedure in the table below.

Step	Function	Display for no input signal	Input Value	Test Readings Range	Bouncing Digits	Remark
1	20A	±0.01	5A	4.94~5.06	6	±(1.2%+5)
			10A	9.90~10.10		
2	200uA	±00.1	100uA	99.4~100.6	4	±(0.8%+2)
3	2mA	±.001	1mA	0.994~1.006		
4	20mA	±0.01	10mA	9.94~10.06		
5	200mA	±00.1	100mA	99.4~100.6		

Remark:(1) The test readings hereinbefore retrench as a rate of 60%, when the specification can not reach test requirement, inform the Engineers to broaden the relevant specification, then carry out the specification as clients required.

(2)According to the different output value, take whichever 5A or 10A can calibrate 20A function.

四、 Notes:

- 1、 Be sure display no input signal become steady before input stated value.
- 2、 Pack the Meter after input value became steady, and bouncing digits is less than bouncing values
- 3、 Caliberat the on/in bubble bags, and put defects or eligible meters into different plastic box orderly in bubble bags.
- 4、 Before the calibrator gives input to the Meter, make sure a proper function has been selected , forbid change function in input state.
- 5、 Inspect the LCD display when open the Meter, there should no extra stroke 、 shadow、 leakage、 scratch damage or dirt.
- 6、 Turn the Rotary Switch to OFF position or take out the battery.

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一、 Inspection Items:

1、 ACA Clibrating

二、 Calibrating Instruments:

NJ20 or YS200 AC Standard Voltage Current Source.

三、 Inspecting Procedures:

Change the Rotary Switch to the DCV function, input test electric current from 20A/MA → COM. Please inspect according to the procedure in the table below.

Step	Function	Display for no input signal	Input Value	Test Readings Range	Bouncing Digits	Remark
1	20A	±0.01	10A	9.85~10.15	9	±(2%+5)
2	200uA	±00.1	100uA	99.1~100.9	5	±(1.0%+5)
3	2mA	±.001	1mA	0.991~1.009		
4	20mA	±0.01	10mA	9.91~10.09		
5	200mA	±00.1	100mA	99.1~100.9		

Remark:(1) The test readings hereinbefore retrench as a rate of 60%, when the specification can not reach test requirement, inform the Engineers to broaden the relevant specification, then carry out the specification as clients required.

四、 Notes:

- 1、 Be sure display no input signal become steady before input stated value.
- 2、 Pack the Meter after input value became steady, and bouncing digits is less than bouncing values.
- 3、 Caliberat the on/in bubble bags, and put defects or eligible meters into different plastic box orderly in bubble bags.
- 4、 Before the calibrator gives input to the Meter, make sure a proper function has been selected , forbid change function in input state.
- 5、 Inspect the LCD display when open the Meter, there should no extra stroke 、 shadow、 leakage、 scratch damage or dirt.
- 6、 Turn the Rotary Switch to OFF position or take out the battery.