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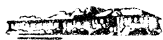
### WARRANTY

SIMPSON ELECTRIC COMPANY warrants each instrument and other articles of equipment manufactured by it to be free from defects in material and workmanship under normal use and service, its obligation under this warranty being limited to making good at its factory any instrument or other article of equipment which shall within 90 days after delivery of such instrument or other article of equipment to the original purchaser be returned intact to it, or to one of its authorized service stations, with transportation charges prepaid, and which its examination shall disclose to its satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on its part, and SIMPSON ELECTRIC COMPANY neither assumes nor authorizes any other persons to assume for it any other liability in connection with the sale of its products.

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## Simpson ELECTRIC COMPANY

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# Simpson

INSTRUMENTS THAT STAY ACCURATE

## OPERATOR'S MANUAL

## OHMMETER

## MODEL 372 SERIES 2

**SIMPSON ELECTRIC COMPANY**

5200 W. Kinzie St., Chicago, Illinois 60644  
Area Code 312, Telephone 319-1121  
In Canada, Bach-Simpson, Ltd., London, Ontario



## OPERATING INSTRUCTIONS

### MODEL 372 SERIES II OHMMETER

The Simpson Ohmmeter Model 372 Series II is a six range instrument. It measures resistance values from 0.2 ohms to 50 megohms with an accuracy of  $\pm 3\%$  of arc.

#### 1. INITIAL ADJUSTMENTS.

- a. Place the ohmmeter in the desired operating position with the test leads disconnected.
- b. Observe the pointer position, then turn the zero adjust screw on the face of the meter until the pointer rests directly over the division to the right of the infinity ( $\infty$ ) mark on the meter scale. (This is a mechanical adjustment for meter movement zero.)

**2. RANGE SELECTION.** Set the range selector switch to the desired range. Select the range which gives the reading nearest to the center of the scale. Ranges, center scale readings, maximum test currents, and open circuit voltages are given in the table below for reference.

OHMS RANGE	OHMS CENTER	MAXIMUM D.C. TEST CURRENT# AT ZERO $\Omega$ (MILLIAMPERES)	MAXIMUM D.C. TEST VOLTAGE* (OPEN CIRCUIT)
RX1 (0-500 $\Omega$ )	5 $\Omega$	300 MA	1.5 V
RX10 (0-5K $\Omega$ )	50 $\Omega$	30 MA	1.5 V
RX100 (0-50K $\Omega$ )	500 $\Omega$	3 MA	1.5 V
RX1K (0-500K $\Omega$ )	5K $\Omega$	0.3 MA	1.5 V
RX10K (0-5MEG $\Omega$ )	50K $\Omega$	0.03 MA	31.5 V
RX100K (0-50MEG $\Omega$ )	500K $\Omega$	0.003 MA	31.5 V

# Ohms adjust control set properly

\*Nominal battery voltage of a new battery may be about 10% higher

#### 3. ZERO ADJUSTMENT.

- a. Insert test leads into ohmmeter jacks and short lead clips together.
- b. Adjust ZERO OHMS control until the pointer rests directly over the zero division on the meter scale.

#### NOTE

When the meter can no longer be adjusted to zero on the RX1 through RX1000 ranges, replace the No. 2, Size "D", 1.5 volt dry cell. When the meter can no longer be adjusted to zero on the RX10,000 or RX100,000 ranges, replace the Type 413, 30 volt battery.

#### 4. MEASURING THE RESISTANCE.

- a. Separate test leads and attach firmly to the component to be measured. Read value indicated on meter scale and multiply reading by the appropriate factor for the range selected to obtain the actual resistance.
- b. If the pointer rests very close to either end of the meter scale, reset the range selector switch to a range which will allow the value to be read closer to scale center and take another reading. This procedure will, in general, give the maximum accuracy of reading.

#### WARNING

1. When measuring resistance in a circuit, be sure that all voltages have been removed. Existing potentials may cause errors in the meter reading, or damage the meter and/or its associated components. Before checking a capacitor for leakage, make certain that it has been completely discharged.
2. Study the circuit under test prior to making any measurements to determine if the voltage or current supplied by the Model 372 (see table, paragraph 2) can cause damage or changes in any of the associated components (transistors, diodes, filaments, low voltage capacitors, etc.),