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Colin Hinson

In the village of Blunham, Bedfordshire, UK.

WESTON®

Autoranging
**DIGITAL
MULTIMETER**

MODEL 6000

OPERATING INSTRUCTIONS

SAFETY NOTICE

WESTON EXERTS EVERY EFFORT TO INSURE THAT THIS INSTRUMENT WILL PROVIDE SAFE, DEPENDABLE SERVICE. PERSONNEL USING THE INSTRUMENT ARE URGED TO ACQUAINT THEMSELVES WITH THE OPERATING INSTRUCTIONS BEFORE USING. OPERATING AND MAINTENANCE PERSONNEL MUST AT ALL TIMES OBSERVE ALL SAFETY REGULATIONS WHEN MAKING MEASUREMENTS ON ELECTRICAL CIRCUITS.

AVOID CONTACT WITH ANY EXPOSED ENERGIZED ELECTRICAL CIRCUITS.

UNDER CERTAIN CONDITIONS, DANGEROUS POTENTIALS MAY EXIST IN CIRCUITS WITH POWER CONTROLS IN THE OFF POSITION DUE TO CHARGES RETAINED BY CAPACITORS. TO AVOID HAZARDS, ALWAYS REMOVE POWER AND DISCHARGE AND GROUND CIRCUITS BY USE OF A GROUNDING STICK PRIOR TO TOUCHING THEM.

WHEN MAKING HIGH VOLTAGE MEASUREMENTS, DO NOT TOUCH THE TEST LEADS OR THE INSTRUMENT BEFORE MAKING CONNECTIONS TO OR CHANGING THE POLARITY OF HIGH VOLTAGE CIRCUITS, ALWAYS FIRST DE-ENERGIZE THE CIRCUIT.

DANGEROUS ARCS OF EXPLOSIVE NATURE CAN OCCUR IF THE CIRCUIT IS SHORTED IN HIGH POWER CIRCUIT AREAS SUCH AS DISTRIBUTION TRANSFORMERS. ALWAYS SET THE FUNCTION SWITCH OF THE INSTRUMENT TO THE CORRECT POSITION BEFORE TAKING MEASUREMENTS. WHEN TAKING VOLTAGE MEASUREMENTS, NEVER SET FUNCTION SWITCH TO THE CURRENT OR LOW RESISTANCE POSITION. (SEE OPERATION SECTION).

AVOID MEASUREMENTS ON CIRCUITS WHICH MAY GENERATE EXCESSIVE VOLTAGE TRANSIENTS.

OBSERVE INPUT LIMITS. (SEE OPERATION SECTION).

REMOVE TEST LEADS AND SET THE FUNCTION SWITCH TO "OFF" POSITION TO REPLACE FUSE AND BATTERIES. (SEE MAINTENANCE SECTION)

OPERATING INSTRUCTIONS

FOR

DIGITAL MULTIMETER

WESTON MODEL 6000

U.S. Patent 3,051,939
and Other Patents Pending

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WESTON INSTRUMENTS,

a Division of Sangamo Weston, Inc.

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Schlumberger

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PREPARATION FOR USE

General

Inspect the instrument for possible damage in shipment. If damage is noted, notify the carrier and supplier before using the instrument.

Batteries

The batteries are packed separately and are easily installed in the following manner.



**WHEN INSTALLING BATTERIES
DO NOT INSERT TEST LEADS IN JACKS
SET FUNCTION SWITCH
TO OFF POSITION**

1. Place FUNCTION switch in $M\Omega$ position.
2. Remove snap on front plastic range plate by hooking a non-metallic object such as your thumbnail under the plate at the AC-DC slide switch opening. Pull plate up and away from the instrument until range plate snaps off. Note that ledge in case secures bottom of range plate.
3. Set FUNCTION switch in OFF position.
4. Install new batteries. Be certain connector is pressed firmly into place and wire leads are not pinched when range plate is installed.
5. To install range plate, slide plate into lower ledge in case, then press down firmly with both thumbs, while encircling the lip around the FUNCTION switch.
6. The instrument is ready for use. Refer to OPERATION section for detailed procedure.
7. The liquid crystal display should not be exposed to temperature in excess of 55°C .

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GENERAL DESCRIPTION

The Weston Model 6000 is a bi-polar 3½ digit portable self-contained digital multimeter (DMM) designed for laboratory and field use. It is lightweight, shock resistant and is designed for convenience, utility and ruggedness.

Five AC and DC voltage ranges, five AC and DC current ranges and six resistance ranges are self-contained in a polycarbonate plastic case. The 26 ranges are accomplished by use of autorange on volts, milliamperes, amperes, kilohms and megohms functions. 200.0 mV and 200.0 ohms ranges are selected by separate positions on the function switch. AC and DC measurements are selected with a slide switch.

The Model 6000 uses a reflective, field effect liquid crystal display providing excellent

readability over a wide range of ambient light levels. The display numeral height is 0.5 inch.

A single pair of banana jacks handle all input functions except amperes. Ampere ranges are provided through a separate jack. Two disposable 9 volt zinc carbon batteries provide a minimum of 200 hours of continuous operation. (See Maintenance Section). All components are mounted on a single printed circuit board. Custom LSI circuitry contributes to reduced component count, and enhanced reliability.

A remote-hold input jack permits storing the result of a measurement as long as the remote-hold input is connected to common.

SPECIFICATIONS

SPECIFICATION ¹	D.C. VOLTAGE	A.C. VOLTAGE	D.C. CURRENT	A.C. CURRENT	RESISTANCE
Accuracy	0.35% Rdg ² ± 2d	0.5% Rdg ± 5d ^{2, 3}	0.75 Rdg ± 4d	1.5% Rdg ± 6d ²	0.5% Rdg ± 1d ⁵
Input Impedance	10 Megohms	9 Megohms/39 pF	10 ohms ⁵	10 ohms ⁵	-----
Resolution	100 µV	100 µV	1 µA	1 µA	0.1 ohm
Maximum Reading	1000 V	1000 V	10 A	10 A	20 Megohm
Overload Rating	500 V peak	1000 V (1500V peak)	1/4A 250V fuse ⁶	1/4A 250V fuse ⁶	250V (350V peak)
Temperature Coefficient ⁷	250 ppm/°C ⁸	600 ppm/°C	300 ppm/°C	750 ppm/°C	600 ppm/°C ⁵
NOTES: 1. Specifications guaranteed for 90 days and when operated at 23°C ± 5°C 2. 40 to 400 Hz 3. ± (2% Rdg ± 5d) for 1000 VAC range 4. ± (2% Rdg ± 1d) for 1000 VAC range (input 200-300 VAC, 40 Hz to 3 KHz) 5. ± 1% Rdg ± 2d and 2000 ppm/°C for 200 ohm range 6. Except 0 to 2A/10A ranges 0.0 1 ohm input, 15A max 7. Offset temco 1d/5°C beyond the 23°C ± 5°C range 8. Temco for 1000 V range is 350 ppm/°C max.					

Polarity Automatic bipolar
 NMRR (DC only) 66dB at 50 Hz (12.5dB near zero)
 Display 1999 with polarity (0.5"/12.7 mm LCD)
 Display Hold SPST contact closure (HOLD to COM) retains reading
 Operating Power Two 9V "transistor" batteries (NEDA 1604, PP3 or RR3)
 Battery Life 200 operating hours, extended life with premium batteries
 Low Battery Warning Valid reading blinks during final 10 hours (see page 20)
 Outrange Indication Blinking "1888" display ("1" and "888" alternate) together with all decimal points
 Operating Ambient 5° to 50°C, 10 to 85% R.H.
 Storage Temperature -10 to +55°C
 A.C. frequency Influence:
 0-2/20/200 V Less than 0.25 dB to 16 kHz
 0-200 mV, 0-1000 V and current Less than 0.5 dB to 1000 Hz
 Weight 22 oz. (625g) incl. batteries
 Size 7" x 5.75" x 2.25" (178 x 146 x 58 mm) overall

OPERATION

Panel Discription (Refer to Figure 1)

1. Display: $3\frac{1}{2}$ digit $\frac{1}{2}$ inch liquid crystal display.
2. Slide Switch: A two position-slide switch. The left position is for measuring AC signals. The right position is for measuring DC signals and resistance.

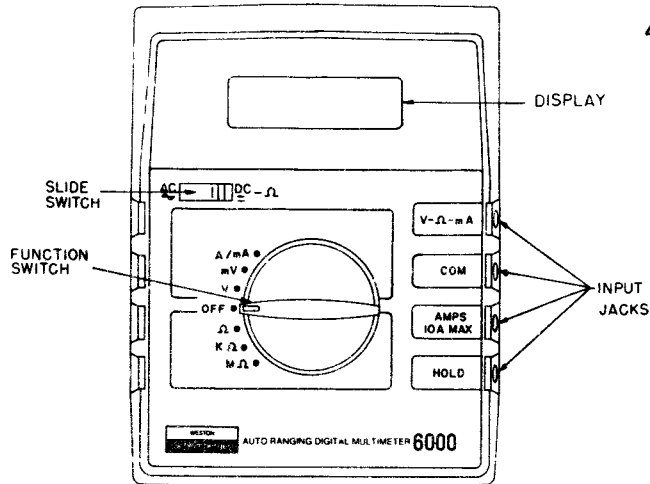


Figure 1. Front Panel

3. Function Switch: 7 position mode switch for the functions indicated. Stops are built into the switching mechanism.

CAUTION

DO NOT ATTEMPT TO ROTATE THE FUNCTION SWITCH BEYOND THE LIMITS

4. Input Jacks: Input "V-Ω-mA" jack and "COM" jack are used for all measurements excluding AC and DC amperes.

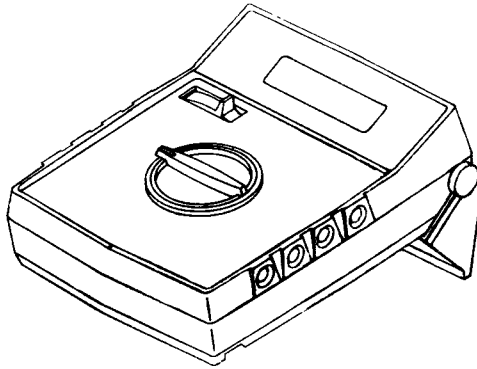
Input "HOLD" jack and "COM" jack may be connected together to permit storage of a measurement.

⚡ HIGH VOLTAGE PRECAUTION ⚡

IT IS IMPORTANT TO INSERT THE MALE BANANA PLUG FULLY INTO THE INPUT JACK SO THAT NO BARE METAL IS EXPOSED

Carrying Handle

The handle serves as a tilt stand and window protector as shown in figure 2.



**HANDLE IN TILT
STAND POSITION**

**HANDLE IN WINDOW
PROTECTOR POSITION**

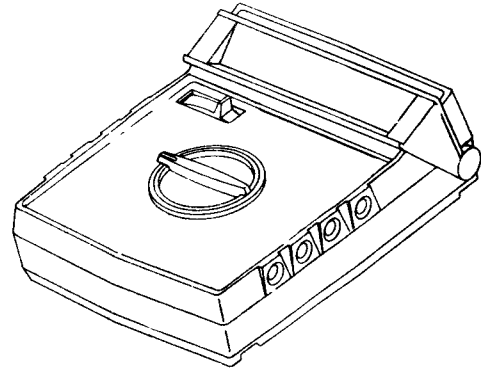


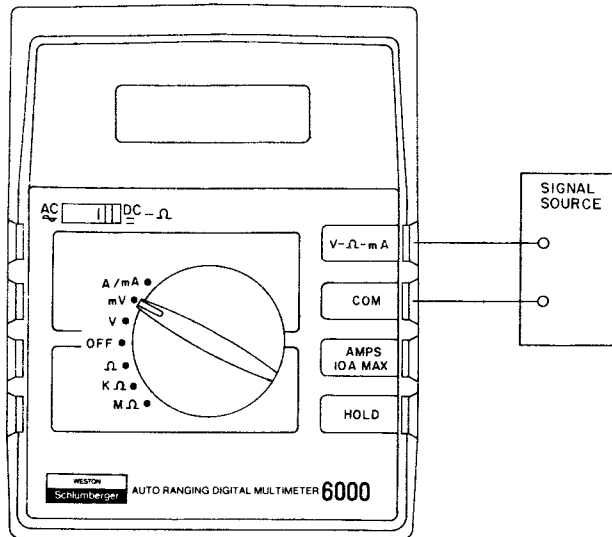
Figure 2. Handle Positions

AC or DC Millivolts Measurements

(Refer to Figure 3)

0.0 to 199.9 mV

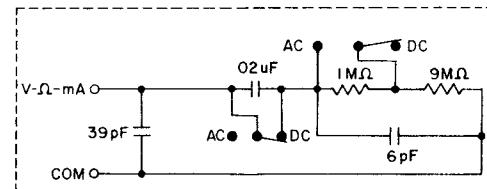
1. Select AC or DC on AC-DC slide switch.
2. Rotate FUNCTION switch to mV position.
3. Connect test leads to jacks marked "V- Ω -mA" and "COM".



Full scale millivolts equal 199.9mV.



WHEN MEASURING MILLIVOLTS DO
NOT EXCEED 1500V PEAK ON THE INPUT



DMM EQUIVALENT CIRCUIT

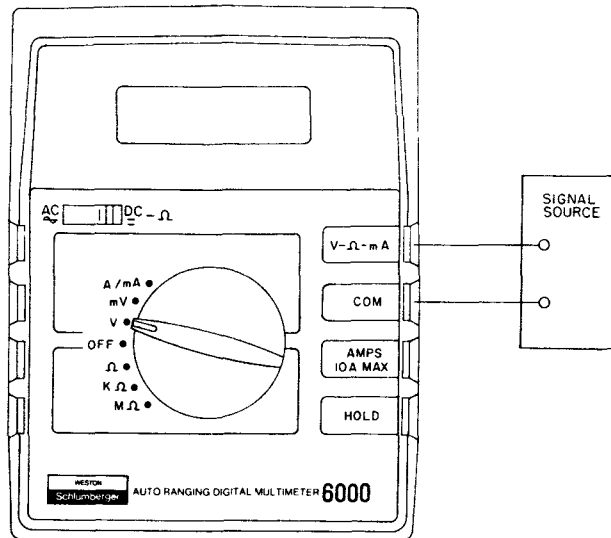
Figure 3. AC or DC Millivolts Measurements

AC or DC Volts Measurements

(Refer to Figure 4)

0.000 to 1000 V

1. Select AC or DC on AC-DC slide switch.
2. Rotate FUNCTION switch to V position.
3. Connect test leads to jacks marked "V- Ω -mA" and "COM"

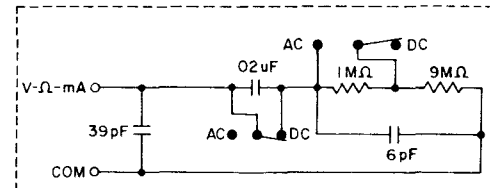


Full scale voltage equals 1000 volts. Auto-ranging occurs automatically over ranges from 1.999 volts to 1000 volts.

Autoranging: Range UP occurs when display exceeds 1999 counts. Range DOWN occurs when display reads less than 180 counts.



**WHEN MEASURING VOLTS DO NOT
EXCEED 1500V PEAK ON INPUT**



DMM EQUIVALENT CIRCUIT

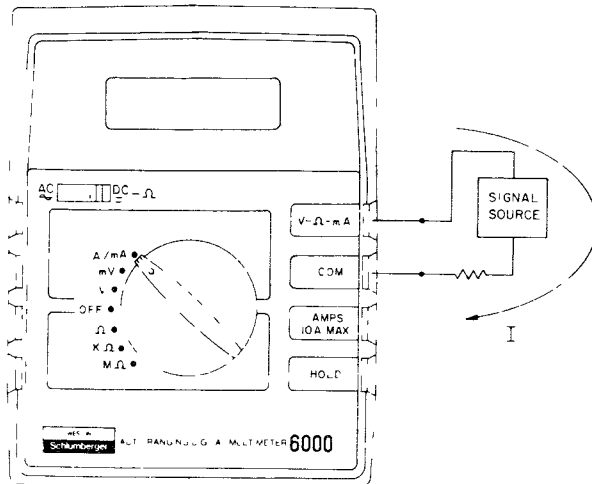
Figure 4. AC or DC Voltage Measurements

AC or DC Current Measurements

(Refer to Figure 5)

0.000 to 199.9 mA

1. Select AC or DC on AC-DC slide switch.
2. Rotate FUNCTION switch to mA position.
3. Connect test leads to jacks marked "V- Ω -mA" and "COM".



Full scale current equals 199.9 mA. Auto-ranging occurs automatically over ranges from 1.999 to 199.9 mA. Range UP at reading exceeding 1999 and range DOWN at reading less than 0180.

Full Scale
Current

1.999mA

19.99mA

199.9mA

Full Scale
Voltage Drop

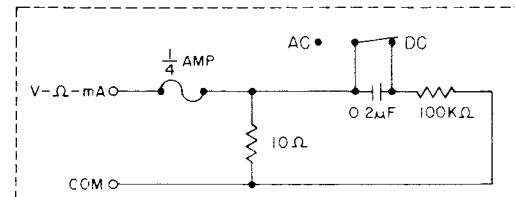
28mV (Typ.)

280mV (Typ.)

2.8 V (Typ.)



WHEN MEASURING MILLIAMPERES DO NOT EXCEED 350V PEAK ON INPUT



DMM EQUIVALENT CIRCUIT

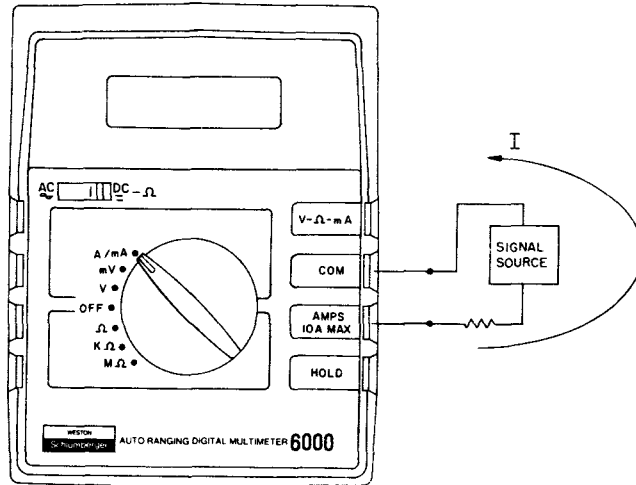
Figure 5. AC or DC Milliamperes Measurements

AC or DC Current Measurements

(Refer to Figure 6)

0.000 to 10.00 A

1. Select AC or DC on AC-DC slide switch.
2. Rotate FUNCTION switch to A position.
3. Connect test leads to jacks marked "AMPS" and "COM".



Full scale current equals 10 amperes. Auto-ranging occurs automatically over 1.999 to 10.00 amperes. Range UP at reading exceeding 1999 and range DOWN at reading less than 0180.

NOTE: Combined current must not exceed 10 amperes continuous or 15 amperes intermittently for maximum period of 15 seconds.

Full Scale
Current

1.999A

10.00A

Full Scale
Voltage Drop*

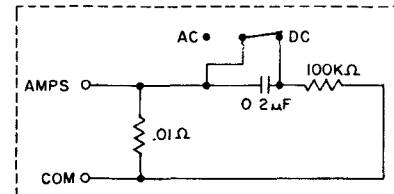
20m V

100m V

* Does not include test lead voltage drop.



**DO NOT EXCEED 350V PEAK ON INPUT
DO NOT INTERRUPT CIRCUIT WHILE
MEASUREMENT IS IN PROGRESS.
THE AMPERE SHUNT IS NOT FUSED.**



DMM EQUIVALENT CIRCUIT

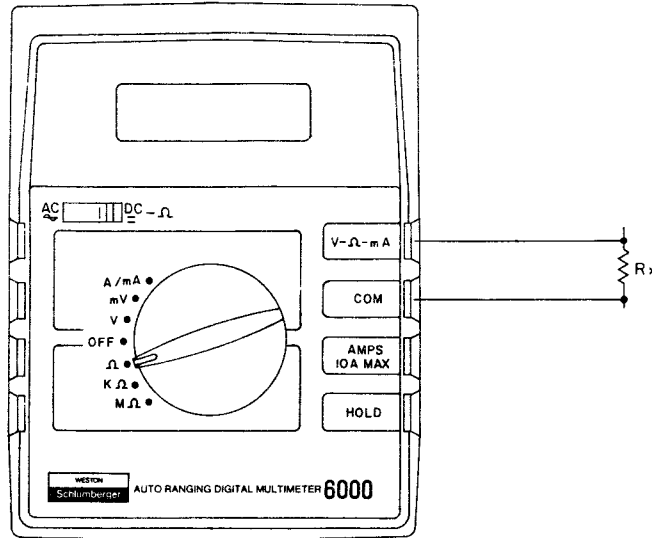
Figure 6. AC or DC Ampere Measurements

DC Resistance Measurements

(Refer to Figure 7)

0.0 to 199.9 Ω

1. Set AC-DC slide switch to DC.
2. Rotate FUNCTION switch to Ω position.
3. Connect test leads to jacks marked "V- Ω -mA" and "COM".

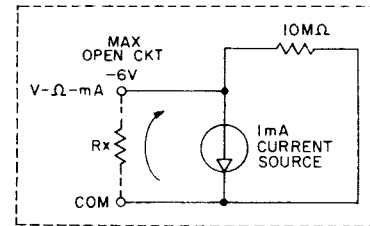


Full scale resistance equals 199.9 ohms.

NOTE: It may be necessary to subtract a residual count of 0.1 to 0.2 ohms due to contact and test lead resistances from all readings for maximum accuracy.



REMOVE POWER FROM CIRCUIT
UNDER TEST. DO NOT EXCEED
350V PEAK ON INPUT.



DMM EQUIVALENT CIRCUIT

Figure 7. Resistance Measurements

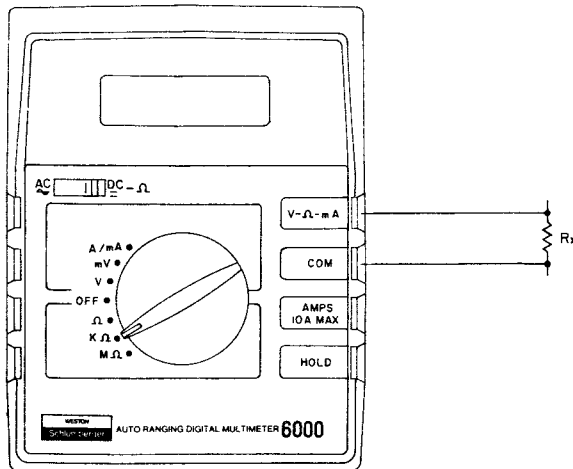
DC Resistance Measurements

(Refer to Figure 8)

0.000 to 199.9 K Ω for K Ω setting

0.000 to 19.99 M Ω for M Ω setting

1. Set AC-DC slide switch to DC.
2. Rotate FUNCTION switch to K Ω or M Ω position.
3. Connect test leads to jacks marked "V- Ω -mA" and "COM".

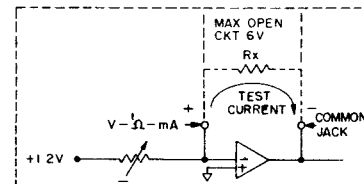


Full scale resistance equals 19.99 megohms. FUNCTION switch at K Ω provides auto-ranging from a full scale of 1.999K Ω to 199.9K Ω . FUNCTION switch at M Ω provides autoranging from a full scale of 1.999M Ω to 19.99M Ω . Range UP at reading exceeding 1999 and range DOWN at reading less than 0180.

<u>RANGE</u>	<u>TEST CURRENT</u>
1.999K Ω	1.2mA
19.99K Ω	0.12mA
199.9K Ω	0.012mA
1.999M Ω	1.2uA
19.99M Ω	0.12uA



REMOVE POWER FROM CIRCUIT
UNDER TEST. DO NOT EXCEED
350V PEAK ON INPUT.



DMM EQUIVALENT CIRCUIT

Figure 8. Resistance Measurements

Low Battery Indication

When one or both batteries require replacement, the Model 6000 continues to operate, but the display blinks. Accuracy is maintained for 10 to 20 hours of operation after the blinking warning appears. Low battery indication operates above 10°C.

Remote Hold

An external connection from the remote hold jack to the common jack holds the most recent measurement and prevents further readings until connection is broken.

If the remote hold is applied before the reading stabilizes, one of two indications will result. Ranging towards less sensitivity: all decimal points turn on. Ranging towards greater sensitivity: the energized decimal point blinks.

Overrange Indication

An overrange result turns on all three decimal points, and the thousands "1" and "888" blink out of phase with each other. Overrange indication operates above 10°C.

Optional Hold Probe (Refer to Figure 8A)

A special test probe (Cat. No. 9740-279407) is available for fingertip control of the HOLD function. When the dual banana plug is inserted at "V-Ω-mA" and "COM" input jacks, and the white pig-tail lead inserted at the "HOLD" jack, a slide switch near the probe tip effects necessary switching. The dual banana plug is of the "stacking" type, so that the black test lead can be "stacked" at the COM jack. The "COM" side of the dual plug is indicated by a polarizing tab on the side of the plug body.

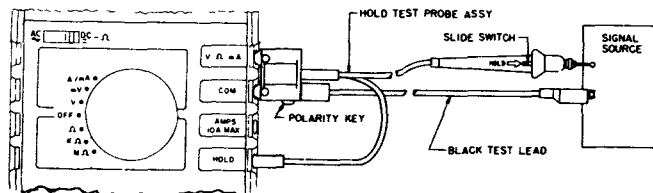


Figure 8A. Hold Test Probe

MANUAL RANGE HOLD

The manual range hold on the model 6000 makes it possible to remain on a single measurement range. The Manual range hold also allows presetting the model 6000 to desired ranges before an external signal is applied. The range of the 6000 can be identified by the decimal point which is activated. The voltage ranges of the Model 6000 are 1.999 volts, 19.99 volts, 199.9 volts and 1000 volts, usually characterised as 2 volts, 20 volts, 200 volts and 1000 volts.

2 Volt Range (1.999V)

Turn Rotary Function Switch (R.F.S.) to volts position with input shorted. Depress Manual Range hold button (depress twice if switch was originally in down position). The left decimal point will be activated for a maximum reading of 1.999V.

1000 Volt Range

Turn R.F.S. to mV position. Connect input to hold jack. When the unit is fully out-ranged, flashing 1.8.8.8, depress manual switch. Turn R.F.S. to volts position. No decimal points will be activated to indicate the 1000 volt range.

20 Volt Range (19.99V)

Turn R.F.S. to volts position. Connect V-ohm-mA input to hold jack (reads approximately 4 volts). Depress Manual hold switch (depress twice if in down position).

The middle decimal point will be activated for a maximum reading of 19.99V.

200 Volt Range (199.9V)

Make sure manual range hold is in the up position. Turn R.F.S. to mV position. Connect voltmeter input to hold jack. Before meter out-ranges to 1.8.8.8, but after all decimal points flash, depress range hold. Turn R.F.S. to volts position. Right decimal point will be lit to indicate 199.9V max. reading.

Ohms Ranges

On the K-ohm and M-ohm ranges, shorting and opening the leads will cause out-ranging. The desired range can be selected by depressing the Manual hold switch when the decimal point is in the desired position.

MAINTENANCE

Operating Maintenance

In the course of normal operation, the instrument should require no maintenance other than the occasional replacement of batteries and the overload protection fuse. The case should not be opened except by a factory authorized representative.



REMOVE TEST LEADS AND SET
FUNCTION SWITCH TO OFF POSITION
WHEN REMOVING BATTERIES AND FUSE

Battery and Fuse Replacement

(Refer to Figure 9)

1. Remove test leads from instrument.
2. Place FUNCTION switch in $M\Omega$ position.
3. Remove snap on front plastic range plate by hooking a non-metallic object such as your thumbnail under the plate at the AC-DC slide switch opening. Pull plate up and

away from the instrument until range plate snaps off. Note that ledge in lower case secures bottom of range plate.

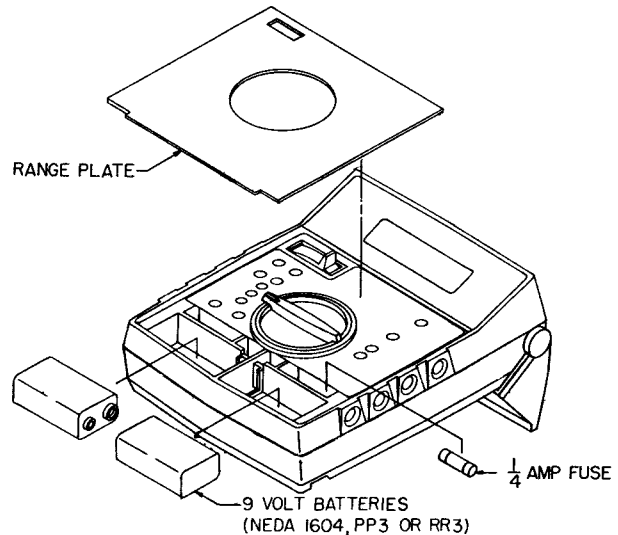


Figure 9. Battery and Fuse Replacement Diagram

4. Set FUNCTION switch in OFF POSITION.
5. Two 9 volt batteries and a ¼ amp fuse are located in the cavities of the case.
6. Remove batteries and snap off connector.
7. Install new batteries in pairs. Be certain connector is pressed firmly into place and wire leads are not pinched when range plate is installed.
8. Snap out fuse with a tool as shown in Figure 10. Install a new fuse.
9. To install range plate, slide plate into lower ledge in case, then press down firmly with both thumbs, while encircling the lip around the FUNCTION switch.

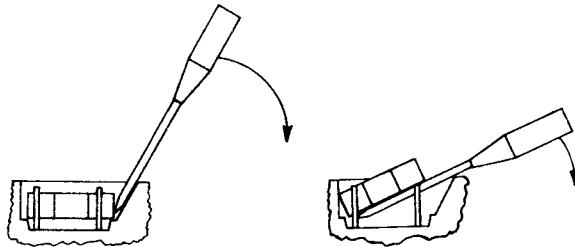


Figure 10. Fuse Removal

CAUTION

Because of the special discharge characteristics of Nickel Cadmium cells (and certain calculator type batteries) their use in this meter is not recommended for the following reasons:

- a) They do not give the specified low battery indication.
- b) Operator confidence in measurements.

Cleaning

Clean window and case with absorbent lint free cloth dipped in a solution made by dissolving one-half teaspoon of mild detergent in one gallon of water. Lightly wipe over and allow solution to air dry.

CAUTION

DO NOT USE ANY CHEMICAL SOLVENTS TO CLEAN WINDOW OR CASE

Typical Battery Current Drain

	<u>+Battery</u>	<u>—Battery</u>
Current	1.8mA	1.2mA
Volts	1.5mA	1.2mA
Ohms	1.6mA	2.2mA
K Ω	3.5mA	2.4mA
M Ω	2.2mA	1.8mA

ADJUSTMENTS

General

This instrument has been calibrated at the factory. However, if adjustment is required, all controls are accessible without uncasing.

Conduct operations at an ambient temperature of $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$.

TEST EQUIPMENT

1. DC Voltage Standard

0 to 1000V. Accuracy $\pm 0.05\%$.

2. DC Current Calibrator

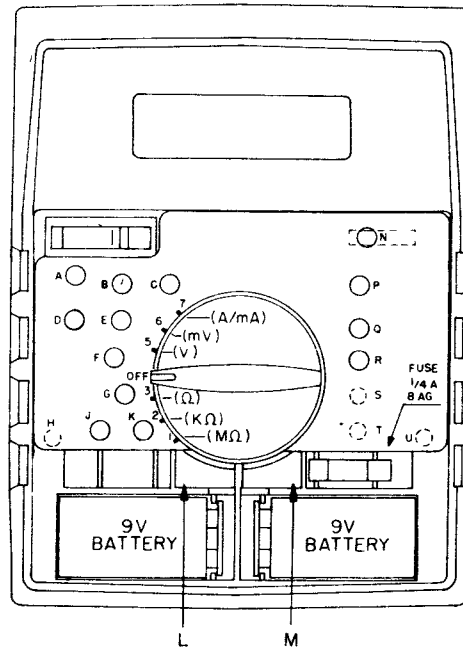
Range $2\mu\text{A}$ to 2A. Accuracy $\pm 0.5\%$.

3. Resistance Standard

0 to 10 Mohms. Accuracy $\pm 0.05\%$.

4. A.C. Voltage Calibrator

Range 0 to 170V. Accuracy $\pm 0.1\%$
Frequency 40Hz, 400Hz, 1KHz, 4KHz
16KHz.



NOTES: Trimmer Controls H,S,T
and U not used in this model.
Trimmer Controls L and M are
recessed in case opening as shown.

Figure 11. Trim Adjustments

ADJUSTMENT TABLE # 1

Step	Switch Setting	Range	Test Signal	Set or Check	Trimmer Control	Circuit Symbol	Slide Switch AC/DC	Instructions	Alignment Tolerance
A	V	2V	+1.7V & -1.7V	-	—	—	DC	Read 1.600 to 1.800. Check minus sign works.	—
1	OFF	—	—	S	L	Z103	DC	Set Z103 to mid point	—
2	OFF	—	—	S	B	Z104	DC	Set Z104 to full CCW	—
3	OFF	—	—	S	E	R140	DC	Set R140 to full CCW	—
4	OFF	—	—	S	P	R166	DC	Set R166 to full CW	—
5	OFF	—	—	S	Q	R135	DC	Set R135 to full CW	—
6	V	2V	-.010V	S	A	R124	DC	Adjust R124 to read -.010 on display.	± .000
7	V	2V	+.010V	S	B	Z104	DC	Adjust Z104 to read .010 on display.	± .000
8	KΩ	2KΩ	SHORT	S	L	Z103	DC	Adjust Z103 until display indicates between .001 to .006	—
9	KΩ	2KΩ	10Ω Module	S	P	R166	DC	Adjust R166 CCW until display reads .010.	± .0005
10	KΩ	2KΩ	SHORT	C	—	—	DC	Display must read .000 or .001. If not repeat step 9.	± .001
11	V	2V	+.01V -.01V	C	—	—	DC	Repeat steps 6 and 7 if tolerance is exceeded.	± .0005
12	V	2V	.000 (OFF)	C	—	—	DC	Repeat steps 6 and 7 if tolerance is exceeded.	± .001

ADJUSTMENT TABLE #2

Step	Switch Setting	Range	Test Signal	Set or Check	Trimmer Control	Circuit Symbol	Slide Switch AC/DC	Instructions	Alignment Tolerance
13	V	2V	+1.7 -1.7	S	E	R140	DC	While reversing input signal polarity, adjust R140 for identical positive and negative readings (absolute reading is unimportant). NOTE: Open pad "D" if reading cannot be balanced.	± 0.002
SUMMETRY									
14	V	2V	+1.7	S	Q	R135	DC	Adjust R135 to read 1700 on display. Open pad "G" if span control is inadequate.	± 0.002
15	V	2V	+1.0	—	—	—	DC	If display indicates greater than 1.005 close pad "A" and repeat steps 6 thru 13.	—
16	KΩ	2KΩ	170K	S	C	R119	DC	Adjust R119 to read 170.0 on display. NOTE: Open pad "E" if span of control is inadequate (reads low).	+000.1 -000.4
17	KΩ	2KΩ	17K	S	F	R151	DC	Adjust R151 to read 17.00 on display.	± 00.02
18	KΩ	2KΩ	1.7K	S	R	R106	DC	Adjust R106 to read 1.700 on display.	—
19	MΩ	1MΩ	1M	C	—	—	DC	Display must read between .993 and 1.007.	± 0.007
20	Ω	200Ω	170Ω	S	M	R107	DC	Adjust R107 to read 170.0 on display. NOTE: Open pad "F" if span of control is inadequate (reads high).	± 000.4

ADJUSTMENT TABLE #3

Step	Switch Setting	Range	Test Signal	Frequency Hz	Directive Set or Check	Trimmer Control	Circuit Symbol	Slide Switch AC/DC	Alignment Tolerance	Specifications Tolerance
21	V	2V	1.700V	4K	S	K	C128	AC	± 0.004	± 0.051VAC
22	V	2V	1.700V	400	C	—	—	AC	—	± 0.013VAC
23	V	2V	1.700V	10K	C	—	—	AC	—	± 0.051VAC
24	V	20V	17.00V	4K	S	G	C114	AC	± 00.04	± 00.51VAC
25	V	20V	17.00V	10K	C	—	—	AC	—	± 00.51VAC
26	V	200V	97.0	4K	S	J	C112	AC	± 00.2	± 01.4VAC
27	V	1000V	970	400	C	—	—	AC	—	± 025VAC
28	V	2V	.000	—	C	—	—	AC	—	± .005VAC
29	mV	200mV	00.0	—	C	—	—	AC	—	± 00.5VAC
30	mV	200mV	170.0mV	400	C	—	—	AC	—	± 001.3VAC
31	mV	200mV	170.0mV	1K	C	—	—	AC	—	± 010.2VAC
32	mA	2mA	00.0	—	C	—	—	AC	—	± 00.5mA AC
33	mA	2mA	1.700mA	400	C	—	—	AC	—	± 0.030mA AC
34	mA	2mA	1.700mA	1K	C	—	—	AC	—	± 0.102mA AC
35	mA	20mA	17.00mA	400	C	—	—	AC	—	± 00.30mA AC
36	mA	20mA	17.00mA	1K	C	—	—	AC	—	± 01.02mA AC
37	mA	200mA	170.0mA	400	C	—	—	AC	—	± 003.0mA AC
38	mA	200mA	170.0mA	1K	C	—	—	AC	—	± 010.2mA AC

REPLACEMENT PARTS LIST

ITEM	DESCRIPTION	PART NUMBER
1	RANGE PLATE	277874-901
2	BATTERY, TRANSISTOR, 9 volt, NFDA 1604 (No 216, PP3, RR3 or equivalent)	276304-001
3	FUSE, 1.4 AMP, 250 volts (8AG or 5mm x 20mm)	ND29787-001
4	DECAL, INSTRUCTIONS	277866-901
5	TEST LEADS (Red and Black)	31-32-00

RECALIBRATION AND MAINTENANCE

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ELECTROPLAN Ltd. offer a full spares and service back-up for this instrument, and should the unit require attention it should be returned to the above address, with a covering note giving brief details of failure. Upon receipt a free estimate of cost for any necessary work will be given.