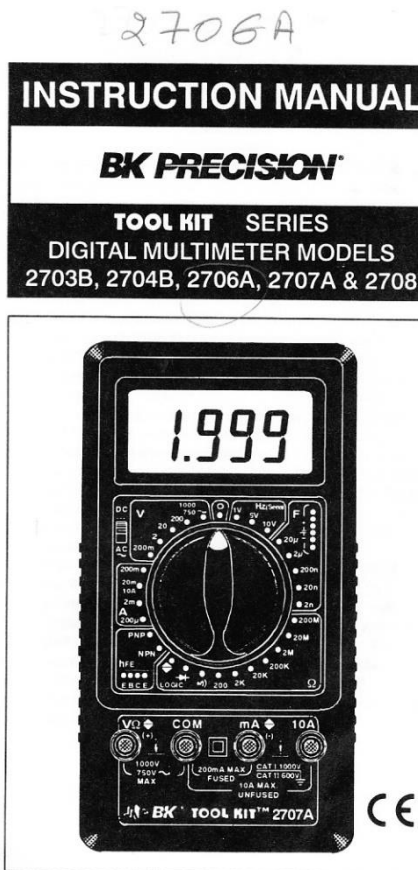


MULTIMETRE TOOLKIT BK PRECISION 2706A



GENERAL INFORMATION

INTRODUCTION

These instructions describe the operation and maintenance of five **BK PRECISION** digital multimeters, Models 2703B, 2704B, 2706A, 2707A and 2708. Follow the instructions that apply to your meter. If an instruction applies only to a specific meter or meters, the model of the meter or meters is enclosed in brackets in the title or heading of the instruction. As an example: A (amperes) [2706A, 2707A], this instruction only applies to the amperes measurements for models 2706A and 2707A. If the instruction applies to all four meters reference to a model number is omitted.

REPLACEMENT TEST LEADS & ACCESSORIES

Periodically examine your test leads to ensure they are in good condition. Replace damaged or defective leads for safe operation and to avoid false readings; request Replacement Test Leads, **BK PRECISION** Model TL-1.

OPTIONAL ACCESSORIES

- Replacement Test Leads: TL-1.
- Deluxe Test Leads: TL-2A.
- Accessory Tip Kit for TL-2: TL-3.
- Carrying case LC-29A: This is a padded vinyl case with a nylon lining. It has an internal pouch for test leads and a convenient zipper flap for easy access.
- Clamp-on AC/DC Current Probe: CP-3.
- High voltage probe, 40 kV DC: PR-28.
- Temperature Probes: TP-29 standard replacement; TP-1 immersion; TP-2 air; TP-3 bead type with 900 °F insulation; TP-4 surface.

SPECIFICATIONS

General Characteristics

Display: 3-1/2 digit liquid crystal display (LCD) with a maximum reading of 1999.
 Nominal Measurement Rate: 3 times/second.
 Low Battery Indicator: "BAT" [2703B] or "BAT" [2704B, 2706A, 2707, 2708].
 Overrange Indicator: "1" or "-1" displayed [2703B] "OL" or "-OL" displayed [2704B, 2706A, 2707A, 2708].
 Accuracy Readings: Stated at +18 to 28°C < 75% relative humidity.
 Polarity: Automatic, positive (+) implied, negative (-) shown.
 Range Selection [2707A, 2706A, 2704B]: Manual with autorange Frequency.
 Range Selection [2703B]: Manual with auto zero.
 Range Selection [2708]: Autorange.
 Power: Single 9V battery, NEDA # 1604, or equivalent.
 Battery Life: 200 hours typical w/carbon zinc battery.
 Operating Temp: 0 to 40°C at < 70% relative humidity.
 Storage Temp: -20 to 60°C at < 80% relative humidity (battery removed).
 Size (H x W x D): 5.9" x 3.1" x 1.3" (150 x 80 x 35 mm)
 Weight: 9oz (250g) including battery.
 Accessories Supplied: ● Pair test leads. ● Battery.
 ● Instruction manual. ● Holster.

DC Voltage

Ranges [2708]: 430mV, 4.3V, 43V, 1000V.
 Ranges [2707A, 2706A, 2704B, 2703B]: 200mV, 2V, 20V, 200V, 1000V.
 Resolution: 100uV, 1mV, 10mV, 100mV, 1.0V.
 Accuracy [2708]: $\pm(0.25\% + 1 \text{ digit})$.
 Accuracy [2707A, 2706A, 2704B, 2703B]: $\pm(0.5\% \text{ reading} + 1 \text{ digit})$
 Overload Protection, 2V - 1000V Ranges: 1200V (dc + ac peak) AC 800V (rms sine)
 Overload Protection, 200mV Range: 500V (dc + ac peak) AC 350V (rms sine)
 Input Impedance: 10 MΩ

SPECIFICATIONS

AC Voltage

Ranges [2708]: 430mV, 4.3V, 43V, 430V, 750V.
 Ranges [2707A, 2706A, 2704B]: 200mV, 2V, 20V, 200V, 750V.
 Ranges [2703B]: 200V, 750V.
 Resolution [2708, 2707A, 2706A, 2704B]: 100μV, 1mV, 10mV, 100mV, 1.0V.
 Accuracy [2708]: 50-500Hz, 43-750V: $\pm(1.5\% \text{ reading} + 3 \text{ digits})$. 500-2KHz, 43-750V: $\pm(1.5\% \text{ reading} + 3 \text{ digits})$.
 Accuracy [2707A, 2706A, 2704B]: 50-500Hz: 200mV-200V, $\pm(1.0\% \text{ reading} + 4 \text{ digits})$; 750V, $\pm(1.5\% \text{ reading} + 4 \text{ digits})$.
 Accuracy [2703B]: 50-500Hz, 200V, $\pm(1.2\% \text{ reading} + 4 \text{ digits})$; 750V, $\pm(1.5\% \text{ reading} + 4 \text{ digits})$.
 Overload Protection, 2V-750V Ranges: 1200V (dc + ac peak) AC 800V (rms sine).
 Overload Protection, 200mV Ranges: 500 V (dc + ac peak) AC 350V (rms sine).
 Input Impedance [2708, 2707A, 2706A, 2704B]: 10MΩ
 Input Impedance [2703B]: 4.5MΩ

DC Current

Ranges [2708]: 430μA, 43mA, 430mA, 10A.
 Ranges [2707A]: 200μA, 2mA, 20mA, 200mA, 10A.
 Ranges [2706A]: 200μA, 2mA, 20mA, 200mA, 2A, 10A.
 Ranges [2704B, 2703B]: 200μA, 20mA, 200mA, 10A.
 Resolution [2708]: 0.1μA, 10μA, 100μA, 10mA.
 Resolution [2707A]: 0.1μA, 1.0μA, 10μA, 100μA, 10mA.
 Resolution [2706A]: 0.1μA, 1.0μA, 10μA, 100μA, 1mA, 10mA.
 Resolution [2704B, 2703B]: 0.1μA, 1μA, 10μA, 100μA, 10mA.
 Accuracy, μA & mA Ranges: [2708]: $\pm(0.5\% \text{ reading} + 1 \text{ digit})$, other models: $\pm(1.0\% \text{ reading} + 1 \text{ digit})$.
 Accuracy, 10A ranges: $\pm(2.0\% \text{ reading} + 3 \text{ digits})$.
 Burden Voltage, 200μA 200mA: 325 mV maximum.
 Burden Voltage, 200mA 10A: 750 mV maximum.
 Overload Protection: μA & mA ranges, 0.63A/250V; 10A range unfused.

SPECIFICATIONS

AC Current [2708, 2707A, 2706A, 2704B]

Range [2708]: 430μA, 43mA, 430mA, 10A.
 Range [2707A]: 200μA, 2mA, 20mA, 200mA, 10A.
 Range [2706A]: 200μA, 2mA, 20mA, 200mA, 2A, 10A.
 Range [2704B]: 200μA, 20mA, 200mA, 10A.
 Resolution [2708]: 0.1μA, 10μA, 100μA, 10mA.
 Resolution [2707A]: 0.1μA, 1.0μA, 10μA, 100μA, 10mA.
 Resolution [2706A]: 0.1μA, 1.0μA, 10μA, 100μA, 1mA, 10mA.
 Resolution [2704B]: 0.1μA, 10μA, 100μA, 10mA.
 Accuracy, 200μA - 200mA, 50 - 500 Hz: $\pm(1.2\% \text{ reading} + 4 \text{ digits})$.
 Accuracy, 10A, 50 - 500Hz: $\pm(2\% \text{ reading} + 4 \text{ digits})$.
 Burden Voltage, 200μA - 200mA: 325mV maximum.
 Burden Voltage, 200mA - 10A: 750 mV maximum.
 Overload Protection: See DC CURRENT.

Resistance

Ranges [2708]: 430Ω, 4.3KΩ, 43KΩ, 430KΩ, 4300KΩ, 43MΩ.
 Ranges [2707A]: 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ, 200MΩ.
 Ranges [2706A, 2704B, 2703B]: Same as 2707A less 200MΩ.
 Resolution [2707A]: 0.1Ω, 1Ω, 10Ω, 100Ω, 1KΩ, 10KΩ, 100KΩ.
 Resolution [2708, 2706A, 2704B, 2703B]: Same as 2707A less 100KΩ.
 Accuracy [2708]: 430Ω, $\pm(0.3\% \text{ reading} + 3 \text{ digits})$.
 4.3K - 4300KΩ, $\pm(0.3\% \text{ reading} + 2 \text{ digits})$. 43MΩ, $\pm(1.5\% \text{ reading} + 4 \text{ digits})$.
 Accuracy 200MΩ [2707A]: $\pm(5.0\% \text{ reading} + 10 \text{ digits})$.
 Accuracy, 200Ω: $\pm(1.0\% \text{ reading} + 3 \text{ digits})$.
 Accuracy, 2KΩ - 2MΩ: $\pm(0.8\% \text{ reading} + 1 \text{ digit})$.
 Accuracy, 20MΩ: $\pm(3.0\% \text{ reading} + 3 \text{ digits})$.
 Open Circuit Volts, 200Ω & 200 MΩ: 3 V dc.
 Open Circuit Volts, 2KΩ - 20MΩ: 0.3 V dc.
 Overload Protection: 500 V (dc + ac peak).

SPECIFICATIONS

Continuity

Audible Indication: Less than 100Ω
 Response Time: Less than 100 ms.
 Overload Protection: 500 V (dc + ac peak).

Diode Test

Accuracy: $\pm(3.0\% \text{ reading} + 3 \text{ digits})$.
 Resolution: 1mV.
 Maximum Test Current: 1.0 mA + 0.6 mA.
 Open Circuit Voltage: 3.2 V, typical.

Capacitance [2707A, 2706A, 2704B]

Ranges: 2 nF, 20 nF, 200 nF, 2 μF, 20 μF.
 Resolution: 1 μF.
 Accuracy: $\pm(3.0\% \text{ reading} + 10 \text{ digits})$ all ranges.
 Test Frequency: 2.5 Hz, 3V.

Frequency [2707A, 2706A, 2704B]

Autoranges: 2 kHz, 20 kHz, 200 kHz, 2000 kHz, 15MHz.
 Accuracy: $\pm(0.1\% \text{ reading} + 2 \text{ digits})$ all ranges.
 Sensitivity [2707A]:
 Selectable 1 V: TTL signal 1Vrms min
 5 V: TTL signal 5Vp-p max
 10 V: TTL signal 10Vp-p max.
 Sensitivity [2706A, 2704B]: 1 V rms.
 Overload Protection: 500 V (dc + ac peak).

hFE Test [2707A, 2706A, 2704B]

Range, PNP & NPN: 0 to 1000 hFE values.
 Base Current (Ib): 10 μA approximately
 Voltage, Collector Emitter (Vce): 2.8 V dc.

Temperature [2706A]

Ranges: -4°F to about 1400°F (-20 to 750°C).
 Resolution: 0.1°F, 0.1°C
 Accuracy: -20 to 500°C ($\pm 2.0\% \text{ reading} + 3^\circ\text{C}$)
 Accuracy: 500 to 750°C ($\pm 3.0\% \text{ reading} + 2^\circ\text{C}$)
 Accuracy: -4 to 900°F ($\pm 2.0\% \text{ reading} + 6^\circ\text{F}$)
 Accuracy: 900 to 1400°F ($\pm 3.0\% \text{ reading} + 4^\circ\text{F}$)

SPECIFICATIONS

Logic Test 2707A, 2708

Threshold Logic: High (2.8 V \pm 0.8 V), Low (0.8 V \pm 0.5 V).
 Frequency Response: 20 MHz.
 Minimum Pulse Width: 25 ns.
 Input Impedance: 120 kΩ nominal.
 Pulse Limits: > 30% & < 70% duty.
 Overload Protection: 500 V (dc + ac peak).

SYMBOLS

	See instruction manual for further precautionary information.
COM	Common (COM) input terminal.
	Danger, high voltage terminal.
	Continuity buzzer.
	Diode Test.
	Earth ground.
	Equipment double insulated.
BAT or	Low battery.
	Logic.
	AC Symbol.
	DC Symbol.
1000 V	Maximum input rating of V Hz terminal with respect to COM input terminal.
750 V	(For voltage measurements only.)
MAX.	Maximum input rating of mA terminal with respect to COM input terminal.
200 mA MAX.	Maximum input rating of mA terminal with respect to COM input terminal.
500 mA MAX.	Maximum input rating of mA terminal with respect to COM input terminal.
10 A	Maximum input rating of 10 A terminal with respect to COM input terminal.

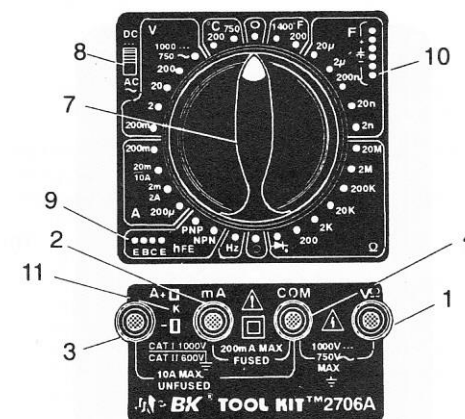
OPERATING INSTRUCTIONS

1. **V Ω Jack**
[2707A] Input for voltage, resistance, continuity, diode, logic and Hz frequency tests.
[2706A, 2704B] Input similar to model 2707A without logic function.
[2703B, 2707] Input similar to 2707A without logic and Hz frequency functions.
2. **mA Jack**
[2707A] Input for current measurements up to 200 mA and negative (-) input for Logic tests.
[2706A, 2704B, 2703B] Input for current measurements up to 200mA.
[2708] Input for current measurement up to 320mA.
3. **10A Jack**
Input for current measurements up to 10 amperes.
4. **COM Jack**
Input for common or reference (black) test lead; not Used with hFE, Cx and TEMP measurements.
Voltage From earth ground or reference to measuring point Must not exceed 750 V ac or 1000V dc.
5. **Display**
Indicates measured value and low battery status.
3-1/2 digit display (1999 maximum) with automatic decimal point and negative (-) sign. Overrange shown by displaying a "1" [2703B] or "OL" [2704B, 2706A, 2707A, 2708] in most significant digit location and all other digits blank.
6. **Annunciators**
Left side shows minus (-) sign, positive implied, logic And low battery status: symbol [2704B, 2706A 2707A, 2708] or "BAT" [2703B].
7. **Function/Range Selector**
Rotary switch to turn meter OFF (O) or to select measurement range and function.
[2707A, 2706A, 2704B] Select dc or ac current and voltage with AC/DC selector.
[2703B] Select ac or dc voltage and dc current with Function/Range selector.
[2708] Select ac or dc current with mode switch.
8. **DC/AC Selector [2707A, 2706A 2704B]**

OPERATING INSTRUCTIONS

9. **hFE Socket [2707A, 2706A, 2704B]**
Input socket for transistor test. Push transistor leads Into appropriate jack, E (emitter), B (base) and C (collector).
10. **Cx (Capacitor) Socket [2707A, 2706A, 2704B]**
Input socket for farad measurements of small axial-lead or PC-lead capacitors.
11. **TEMP Socket**
Socket for standard type-K temperature probe, plug-in To measure degrees Fahrenheit (F) or Celsius (C).
12. **MENU/SELECT OPERATION [2708]**
 - 12.1 **Manual Range Mode**
Press (SELECT) button to select the Manual Range mode and turn on the "O" annunciator. In the Manual Range mode, each time you press (SELECT) button, the range (and the annunciator) incre-ments, and a new value is displayed. To exit the Manual Range mode and return to autoranging, press and hold down (SELECT) button for 2 seconds, the "O" annunciator turns off.
 - 12.2 **MAX/MIN/AVG record Mode**
Set the Function/range switch to the desired function and range.
Select MAX/MIN/AVG recording mode by press (MENU) (Manual range mode feature is enabled) until the cursor is pointing to the REC MX MN AG prompt. Press (SELECT), the (REC) prompt remains lit and all nonselected prompts are turned off. If after six seconds, a selection is not made, the blinking prompts turn off. The cursor remains lit if pointing to a previous selected feature. The automatic power-off feature is disable. Push (SELECT) to cycle through the maximum (MX), minimum (MN), average (AG) and present reading. (AG) is average last ten times reading can be displayed. Press (MENU) to exit and erase recorded reading.

CONTROLS & INDICATORS



Model 2706A

OPERATING INSTRUCTIONS

12.3 Auto Hold Mode

Set the Function/Range switch to the desired function and range.

Select Auto Hold mode by press (MENU) (Manual range mode feature is enabled) until the cursor \blacktriangleright is pointing to the (A-H) Prompt. Press (SELECT), the (A-H) prompt remains lit and all nonselected prompts are turned off. Press (MENU) to exit Auto Hold Mode: In Auto hold mode, the meter will capture and hold the first stable non-zero (>100 digits) reading after a zero reading (<100 digits). Several consecutive measurements can be held and displayed without pressing the button. Simply by shorting the test leads together between measurements.

12.4 Relative Mode

Set the Function/Range switch to the desired function and range.

Select Relative mode by press (MENU) (Manual range mode feature is enabled) until the cursor \blacktriangleright is pointing to the (REL) prompt. Press (SELECT), the (REL) prompt remains lit and all nonselected prompts are turned off. Press (MENU) to exit Relative mode, enter the relative mode, zero the display and store the display reading as a reference value. In the Relative Mode, the value show on the display is always the difference between the stored reference value and present reading.

12.5 Back-Light

Press (MENU) button for two seconds to turn on the back-light, to turn off the back-light, press (MENU) button again for two seconds. The back-light will switch off automatically after 30 seconds.

13. Tilt Stand

Not shown, at rear of case, swing out to use.

OPERATING INSTRUCTIONS

OPERATING TIPS

Before using your meter review these tips carefully. They will help you to use this meter safely, get reliable measurements and avoid false readings.

1. Follow the instructions that apply to your specific model number. If an instruction applies only to a specific model or models, the model number is enclosed in brackets in the title or heading of the instruction.
2. Read, thoroughly understand and follow the SAFETY instructions given in this manual.
3. Examine your test leads. Make sure they are in good condition, free from cracks, etc., and that they make good contact with the jacks of your meter. Do this for safe operation and to avoid false readings.
4. Before taking a measurement, review the related instructions in this manual.
5. Before taking a measurement, estimate its expected value. If you are considerably out of an expected range, carefully review your circuit under test; it could be defective.
6. Stay within the operating range of your meter. Never exceed the 750 V ac or 1000 V dc maximum from your measuring point to earth ground or reference.
7. If value of measurement is unknown, start with the highest range.
8. If an overrange is shown, immediately switch to a higher range.

CAUTION

Never switch between ranges while connected to high voltage to avoid damage to the instrument and possible personal harm.

9. Set function selector to OFF (O) when not in use to conserve battery power.

OPERATING INSTRUCTIONS

VOLTAGE MEASUREMENTS

CAUTION

Never try to measure voltage greater than 750V ac or 1000V dc.

1. Plug black test lead into **COM** jack and red test lead into **V Ω** jack.
2. [2707A, 2706A, 2704B]: Select AC or DC voltage with AC/DC selector switch.
[2703B, 2708]: Set function selector to V \equiv for dc measurements or V \sim for ac measurements.
3. Set Function/Range switch to desired range. Always select a higher range than voltage expected. If range is unknown, select highest range.
4. Connect black lead to point of reference (common), red test lead to measuring point.
Value shown in display window is the actual level with the decimal point correctly Located.
Negative polarity (-) is shown, positive is assumed.
Never exceed 1000V dc or 750V ac, or 500V dc + 500V ac peak-to-peak with respect to earth ground.

RESISTANCE MEASUREMENT

CAUTION

Verify that power is off in circuit under test and that any electrolytic capacitors are discharged.

1. Plug black test lead into **COM** jack and red test lead into **V Ω** jack.
2. Set function selector to desired range in Ω range group.
3. Short leads together. Make sure battery is good. If low battery symbol is shown replace battery as indicated in MAINTENANCE before going further.
4. Connect test leads across component or circuit being measured. Read value at display.

OPERATING INSTRUCTIONS

DIODE TEST

1. Plug black test lead into **COM** jack and red test lead into **V Ω** jack.
2. [2708, 2707A] Set function selector to \rightarrow position.
[2706A, 2704B, 2703B] Set function selector to \rightarrow \rightarrow position.
3. To check forward voltage (Vf), connect red test lead to anode and black test lead to cathode of diode. This check is valid for diodes and semiconductors with a rated Vf of less than about 3V. Typical forward voltage drops for good diodes are as follows:
 - Silicon diode, 0.5V to 0.65V.
 - Germanium diode, 0.2V to 0.4V
 - LED (T1 type), 1.4 to 1.6V.
 A reading of near 0 V indicates a shorted diode. Overrange may indicate an open diode.
4. Reverse test leads to diode; overrange should be displayed. A reading lower than overrange indicates a leaky diode.

CONTINUITY TEST

1. Plug black test lead into **COM** jack and red test lead into **V Ω** jack.
2. [2708] Set function selector to \rightarrow Ω position.
[2707A] Set function selector to \rightarrow Ω position.
[2706A, 2704B, 2703B] Set function selector to \rightarrow \rightarrow position.
3. Touch probes to test points. Audible buzzer sounds when resistance is below about 100 ohms.

CURRENT MEASUREMENTS

CAUTION

- *Always connect meter in series with load when measuring current. If you incorrectly connect it in parallel with the load, it provides a low impedance path, almost a short, shunting the load. This high current path could damage the meter and/or equipment under test. The 10A jack is unfused requiring more care.*

OPERATING INSTRUCTIONS

- Never exceed the maximum current rating of the related jack, such as 10A, to avoid the possibility of personal harm and/or damage to the meter.
- Always select a range high enough to pass the current you plan to measure. If current value is unknown, or in doubt, start with the highest range. Never exceed the current range selected or range of the related jack.
- Never switch range when connected to load while the power to the circuit is ON; turn it OFF before switching.
- [Model 2703]: Only use this meter to measure dc currents; ever try to use it to measure ac current. Only model 2708, 2707A, 2706A and 2704B can be used for ac current measurements.

CURRENT MEASUREMENTS (cont).

1. Plug black test lead into **COM** jack and red test lead into **mA** or **A** jack (above mA range). Use mA jack for current measurements up to 200mA; use **10 A** jack for currents above mA range.
2. [2708] Select AC or DC current with the "SELECT" toggle button.
[2707A, 2706A, 2704B] Select AC or DC current with the AC/DC selector switch.
[2703B] Set function selector to A \equiv for dc current measurements. This meter can not be used for ac current measurements.
3. Set Function/Range switch to desired range. Always select a higher range than current expected. If range is unknown, select highest range.
4. Remove power from circuit under test, it must be "electrically cold".
5. Open circuit at a point that does not exceed 1000 V dc, or 750 V ac, or 500 V dc + 500 V ac peak from earth ground, or chassis of equipment under test.

OPERATING INSTRUCTIONS

6. DC current measurements: Connect meter in series with line opened: red test lead to positive (+) side, black test lead to negative (-) side of line. [2708, 2707A, 2706A, 2704B] Ignore polarity for ac current measurements.
7. Apply power to circuit then read value of current at display.
8. Turn power to circuit under test OFF.
9. Restore circuit to its original condition.

CAPACITANCE MEASUREMENTS [2707A, 2706A, 2704B]

CAUTION

Never apply an external voltage to the Cx or hFE sockets to avoid damage to the meter. Always short capacitor leads together before connecting to meter.

1. Set function selector to desired F (Farad) range.
2. Plug capacitor leads directly into the Cx capacitor test socket.
3. Read capacity at display in selected range as pico, nano or microfarads.

FREQUENCY MEASUREMENTS [2707A, 2706A, 2704B]

1. Connect black test lead to **COM** jack, red into **V Ω** jack.
2. [2707A] Set function selector to Hz (Sens) and select sensitivity voltage: 1 V, 5V or 10V. A lower voltage increases sensitivity and possibility of false triggering by noise. A higher voltage reduces sensitivity to noise and signal trigger, however it may improve accuracy. Select the voltage that provides the best sensitivity without false triggering.
[2706A, 2704B] Set function selector to Hz, fixed sensitivity.
3. Connect test leads to point of measurement and read frequency in Hz at display.

OPERATING INSTRUCTIONS

TRANSISTOR MEASUREMENTS [2707A, 2706A, 2704B]

CAUTION

Never apply an external voltage to hFE or Cx sockets to avoid damage to the meter.

1. Plug leads of transistor into matching jacks of hFE socket, emitter (E), base (B) and collector (C).
2. Select type of transistor under test with function selector, NPN or PNP.
3. Read transistor hFE (gain) at display.

TEMPERATURE MEASUREMENTS [2706A]

1. Set function selector to "F" or "C" position and select range.
2. Plug temperature probe into polarized "TEMP" socket of meter.
3. Place bead at end of probe into desired measuring area.
4. Wait about 30 seconds before reading temperature to allow probe to stabilize.

LOGIC TEST [2708, 2707A]

1. Plug black test lead into **COM** jack [2708]; **mA** jack [2707A] and red test lead into **V Ω** jack.
2. Set function selector to \diamond position.
3. Connect black lead to circuit ground, common; connect red test lead to test point.
4. Note symbol at display, \blacktriangle shows logic high, \blacktriangledown shows logic low. If both indicators are on, test point is toggling between high and low.
5. [2708]: The Back-Light function is disabled in logic test.

MEMORY MODE [2708]

Press **SELECT** button to enter memory mode and turn on the "MEN" annunciator, the Pulse indicator "⚡" will turn on with the first transition (either rising or falling), thereafter as long as the meter is powered, the "⚡" sign will remain on until press **"SELECT"** button to exit memory mode.

CUSTOMER SUPPORT

1-800-462-9832

Precision offers courteous, professional technical support before and after the sale of their test instruments. The following services are typical of those available from our toll-free telephone number:

- Technical advice on the use of your instrument.
- Technical advice on special applications of your instrument.
- Technical advice on selecting the best instrument for a given task.
- Instrument for information on optional accessories for your instrument.
- Information on instrument repair and recalibration services.
- Replacement parts ordering.
- Information on other **BK PRECISION** instruments.
- Requests for a new **BK PRECISION** catalog.
- The name of your nearest **BK PRECISION** distributor.

Call toll-free 1-800-462-9832

Monday through Friday, 8:00 A.M. to 5:00 P.M.
Pacific Standard Time

BK PRECISION

B & K PRECISION CORP
22820 SAVI RANCH PARKWAY
YORBA LINDA, CA 92887

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480-769-9-001 C Printed in Taiwan

MAINTENANCE

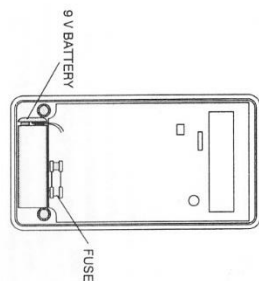
WARNING

Disconnect test leads from voltage source before changing batteries or performing any maintenance.

BATTERY REPLACEMENT

Replace battery when the low battery symbol is displayed. A fresh 9 V NEDA 1604 battery is needed.

1. Disconnect test leads from circuit.
2. Disconnect function selector to OFF.
3. At rear of case, remove the two Phillips screws at lower end of case. Next, push up at lower end of case then remove cover.
4. Remove old battery and install fresh battery.
5. When reinstalling, place rear cover squarely over front cover then snap into place. Secure cover with the two screws removed in step (3).



REAR COVER REMOVED FROM CASE
10