

INSTRUCTIONS FOR B & K-PRECISION MODEL HV-44 HIGH-VOLTAGE PROBE

DESCRIPTION

The B & K-Precision high-voltage probe is a self-contained, direct-reading, 0 to +40 kilovolts DC high-voltage meter.

The core magnet-type meter is free from outside magnet influence and can effectively withstand shock and vibration.

The outside case is made of high-impact ABS plastic, insuring excellent insulation, impact resistance and light weight. Each probe is factory-calibrated at 25 kilovolts to an accuracy which makes this instrument ideal for measuring the high voltage of all makes of color TV sets, as well as black and white sets.

SPECIFICATIONS

Range:	0 to +40 kV DC.
Impedance:	600 megohms nominal
Accuracy:	$\pm 2\%$ at 25 kV. $\pm 3\%$ of full scale overall.
Calibration:	Factory calibrated at 25 kV.
Probe Tips:	Supplied with two interchangeable tips: one conventional round needle type and one specially designed flat spring type for easy access to CRT anode.

IMPORTANCE OF MEASURING THE HIGH VOLTAGE

All color TV sets require a specified value of high voltage. If the high voltage is incorrect, the set may not function properly. Before any color set can be accurately converged, the high voltage must be checked and/or adjusted to the manufacturer's specifications.

A second reason for checking the high voltage arises from the possibility of X-ray radiation from certain sets, particularly older models. The possibility of this hazard is increased if the high voltage of the receiver is excessive. Always check the manufacturer's instructions and specifications prior to performing high-voltage adjustments.

MEASURING HIGH VOLTAGE IN TV SETS

CAUTION

ALWAYS CONNECT THE GROUND LEAD BEFORE MAKING ANY MEASUREMENTS. Always make measurements with one hand behind your back or in your pocket. Avoid contacting any exposed metal parts. Do not stand on wet floors. A dry piece of plastic is useful as a place to stand.

In handling replacement CRT's, remember many picture tubes have conductive coatings which can hold a charge long after the set is turned off.

1. Connect the alligator ground clip to the chassis or ground side. Be sure the probe is free of dust and moisture.
2. Locate the high-voltage point on the picture tube or in the high-voltage compartment.
3. Touch the probe tip to the high-voltage point. Make sure that your free hand is held behind you and that the hand holding the probe is not in contact with any other point. Read the high voltage on the meter.
4. Measure only positive DC voltages. The instrument is *not* designed for negative or AC voltages.

MAINTENANCE

The Model HV-44 probe is designed to give years of trouble-free service. If any malfunction occurs, check the following:

1. Ground lead and clip.
2. Probe Tip
3. Accumulation of grease or dust.

The meter is individually factory-calibrated and should not require adjustment. If after examining the tester, it still fails to perform satisfactorily, contact your local B & K-Precision distributor for the name and location of your nearest service agency or write to:

Service Department
B & K-PRECISION DIVISION OF DYNASCAN CORPORATION
2815 West Irving Park Road
Chicago, Illinois 60618

B & K-PRECISION MODEL HV-44 HIGH-VOLTAGE PROBE PARTS LIST

DESCRIPTION	B & K PART NUMBER
600 Megohm, 15%, 5W High-Voltage Resistor	004-154-9-001
3-Megohm Trimpot	004-028-9-001
Circuit Board Contact Clip	261-065-9-902
Spring, Resistor	767-037-9-001
Printed Circuit Board	302-178-9-005
Meter Movement	320-067-9-001
Clip, Meter Housing Contact	763-047-9-902
Handle, Probe	380-238-9-001
Body, Probe	380-239-9-001
Meter Housing	380-241-9-001
Screw, 6-32 x 2-5/16"	628-037-1-920
Probe Tip, Round	769-083-9-001
Probe Tip, Flat	769-084-9-001
Instruction Folder	481-065-9-001

ACCESSORIES

Model LC-32 Vinyl Carrying Case (not included).

NOTE: Minimum charge \$5.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express charges. Specify serial number when ordering replacement parts.

WARRANTY

"B&K-Precision warrants that each product manufactured by it will be free from defects in material and workmanship under normal usage and service for a period of one year after its purchase new from an authorized B&K-Precision distributor. Our obligation under this warranty is limited to repairing, or replacing any product or component which we are satisfied does not conform with the foregoing warranty and which is returned to our factory or our authorized service contractor, transportation prepaid, and we shall not otherwise be liable for any damages, consequential or otherwise. *The foregoing warranty is exclusive and in lieu of all other warranties (including any warranty of merchantability), whether expressed or implied.* Such warranty shall not apply to any product or component (i) repaired or altered by anyone other than B&K-Precision or its authorized service contractor without B&K-Precision's prior written approval; (ii) tampered with or altered in any way or subjected to misuse, negligence or accident; (iii) which has the serial number altered, defaced or removed; or (iv) which has been improperly connected, installed or adjusted otherwise than in accordance with B&K-Precision's instructions. B&K-Precision reserves the right to discontinue any model at any time or change specifications or designs without notice and without incurring any obligation. *The warranty shall be void and there shall be no warranty of any product or component if a B&K-Precision warranty registration card is not properly completed and postmarked to the B&K-Precision factory within ten days after the purchase of the product new from an authorized B&K-Precision distributor.*"



DIVISION OF DYNASCAN CORPORATION

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