

SCHEMATIC OF THE HEATHKIT® FET MULTIMETER MODEL IM/SM-5225

NOTES:

1. CHASSIS PARTS 1-99; CIRCUIT BOARD PARTS 101-199.
2. RESISTOR VALUES ARE IN OHMS (K=1,000; M=1,000,000).
3. RESISTORS ARE 1/2-WATT, 1% UNLESS OTHERWISE NOTED.
4. CAPACITORS ARE IN μ F UNLESS OTHERWISE NOTED.
5. SCHEMATIC SYMBOLS:
 - INDICATES SWITCH LUG CONNECTION.
 - INDICATES WIRE CONNECTION TO THE CIRCUIT BOARD.
 - ▽ INDICATES CIRCUIT GROUND (POWER).
 - ▽ INDICATES LOW-NOISE GROUND.
 - ⏏ INDICATES CHASSIS (EARTH) GROUND.
 - INDICATES DC VOLTAGE READING USING A HIGH IMPEDANCE (10M Ω OR HIGHER) VOLTMETER FROM THE "V" INPUT JACK TO THE MEASUREMENT POINT. VOLTAGES MAY VARY $\pm 20\%$.
 - RANGE SWITCH IS SET TO THE ILLUSTRATED POSITION; FUNCTION SWITCH IS IN DC/D POSITION.
 - ↻ ARROW INDICATES CLOCKWISE ROTATION OF CONTROL AS VIEWED FROM KNOB END.
 - INDICATES FRONT PANEL CONTROL.
 - * INDICATES MYLAR CAPACITOR.
 - NC MEANS NO CONNECTION.
6. PARTS IN SHADED AREAS ARE CRITICAL FOR CONTINUED SAFETY. REPLACE ONLY WITH HEATH COMPANY PART.
7. REFER TO THE "CIRCUIT BOARD X-RAY VIEW" FOR LOCATION OF PARTS.
8. SWITCH (SW101) WAFERS ARE VIEWED FROM FRONT (KNOB) END OF SWITCH. "●" ON WAFER INDICATES ELECTRICAL THROUGH-CONNECTION FROM FRONT SIDE TO REAR SIDE AT A LUG OR ROTOR.
9. FB INDICATES FERRITE BEAD.

