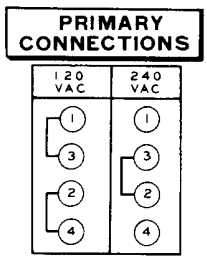
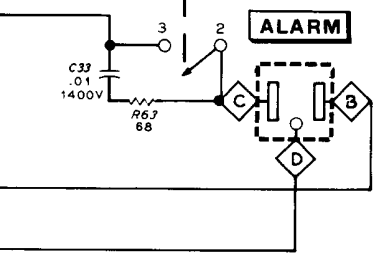
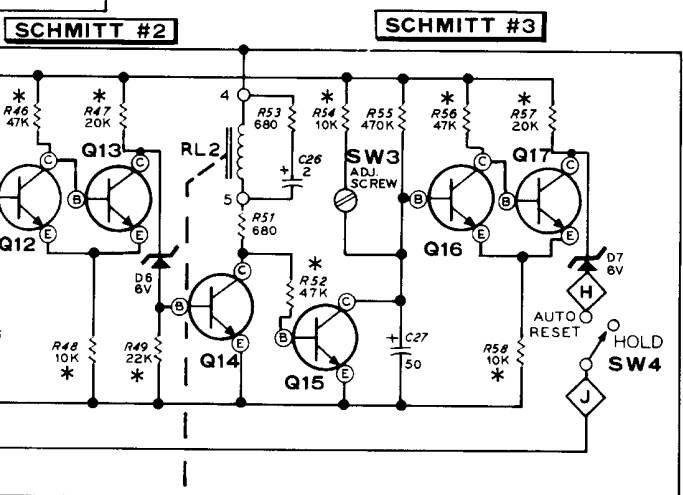


**SCHEMATIC OF THE
HEATHKIT®
MODEL GD-39
ULTRASONIC INTRUSION ALARM**



NOTES:

1. ALL RESISTORS ARE 1/2 WATT. RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE MARKED. (K=1,000; M=1,000,000.) 5% TOLERANCE RESISTORS ARE MARKED WITH AN ASTERISK.
2. ALL CAPACITOR VALUES ARE IN μ F UNLESS OTHERWISE MARKED.
3. SYMBOLS:
 - * 5% TOLERANCE RESISTORS (4th BAND GOLD)
 - ◇ A CIRCUIT BOARD CONNECTION HOLE. A LETTER IN THE SQUARE IS THE LETTER PRINTED ON THE CIRCUIT BOARD.
 - TRANSUCER.
 - A DC VOLTAGE OF THE SAME VALUE AS THE CONTAINED FIGURE.
 - ⊕ AC SOCKET.
4. REFER TO THE TRANSISTOR AND DIODE IDENTIFICATION CHART FOR IDENTIFICATION INFORMATION OF THESE DEVICES.
5. REFER TO THE X-RAY VIEWS AND THE CHASSIS PHOTOGRAPHS FOR THE PHYSICAL LOCATION OF PARTS.
6. REFER TO THE VOLTAGE CHART FOR VOLTAGES AT TRANSISTOR AND DIODE LEADS.

Assembly
and
Operation
of the



ULTRASONIC
INTRUSION ALARM
MODEL GD-39

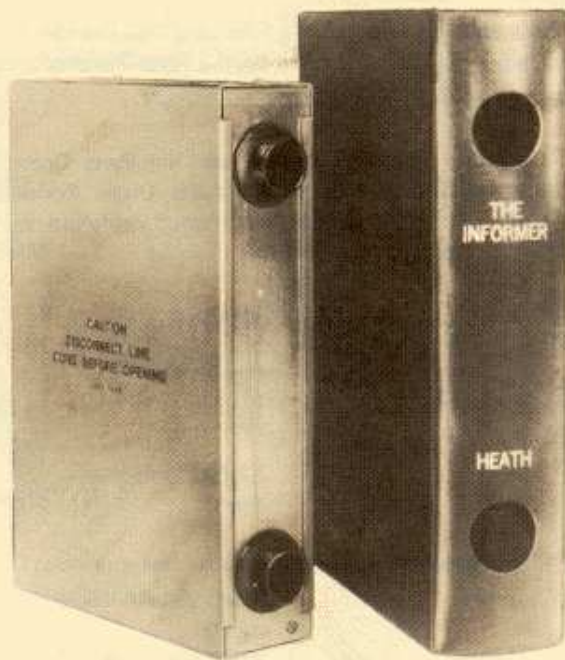

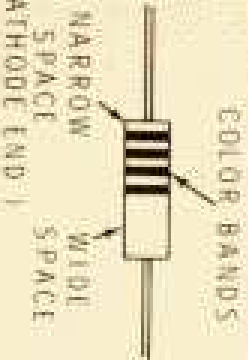
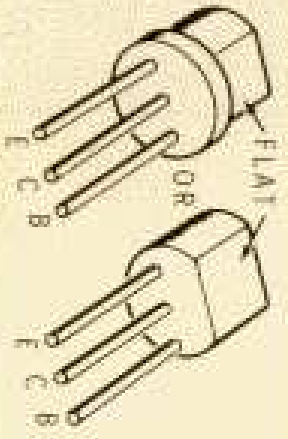


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TRANSISTOR AND DIODE IDENTIFICATION

| COMPONENT | HEATH PART NUMBER | REPLACEMENT TYPE | IDENTIFICATION |
|---|-------------------------|-------------------------------------|--|
| D1, D2 | 56-26 | 1N191 (BROWN-WHITE-BROWN) | <p style="text-align: center;">HEATH PART NUMBERS OR THE TYPE NUMBERS ARE STAMPED ON MOST DIODES.</p> <p style="text-align: center;">NOTE: DIODES MAY BE SUPPLIED IN ANY OF THE FOLLOWING SHAPES. ALWAYS POSITION THE BANDED END AS SHOWN ON THE CIRCUIT BOARD.</p>  <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">BAND OR BANDS</div> |
| D3, D4 D5, D6, D7 D9, D10 D11, D12 | 56-56 56-58 57-65 | 1N4149 1N789A 1N4002 | |
| Q8 | 56-57 | 1N716A (VIOLET-BROWN-BLUE-BROWN) |  |
| Q1, Q2 Q3 THRU Q9 | 417-91 417-118 | 2N5222A 2N3393 |  |