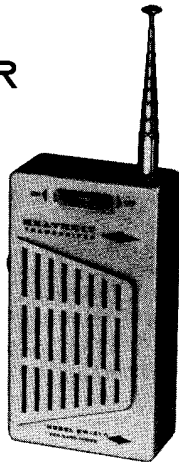


# Assembly and Operation of the



## HAND-HELD TRANSCEIVER

MODEL GW-31A



HEATH COMPANY,  
BENTON HARBOR,  
MICHIGAN

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### SCHEMATIC OF THE HEATHKIT® HAND-HELD TRANSCEIVER MODEL GW-31A

NOTES:

- ALL RESISTOR VALUES ARE IN OHMS (K = 1000).
- INDICATES VOLTAGE READING.
- ALL VOLTAGES ARE MEASURED FROM POINT INDICATED TO CHASSIS GROUND.
- VOLTAGE READINGS TAKEN WITH AN 11 MEGOHM INPUT VTVM. VOLTAGES MAY VARY ±10%.
- SWITCH SW1 SHOWN IN TRANSMIT POSITION.
- VOLTAGES AT Q3 AND Q4 TAKEN UNDER THE FOLLOWING CONDITIONS: DUMMY LOAD POSITIONED ON TRANSMITTER OSCILLATOR COIL L4. TEST CAPACITOR C18 CONNECTED TO TP ON CIRCUIT BOARD. SWITCH SW1 IN TRANSMIT POSITION. ANTENNA REMOVED.
- VOLTAGES AT Q1 AND Q2 TAKEN UNDER THE FOLLOWING CONDITIONS: REGENERATION CONTROL SET FOR LOUDEST HISSING SOUND FROM SPEAKER. THEN SET THE VOLUME CONTROL FOR MINIMUM VOLUME. ANTENNA CONNECTED.
- REFER TO THE X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS ON THE CIRCUIT BOARD.

