SCHEMATIC OF THE HEATHKIT® MODEL GW-31A

MICROPHONE ANTENNA AND HAND-HELD TRANSCEIVER C14 **SPEAKER** .002 LUFD SWI NOTES: **TRANSMIT** RECEIVE C/8 ┌Ɗ (2) ALL RESISTOR VALUES ARE IN OHMS (K = 1000). (+.6] INDICATES VOLTAGE READING. QЗ SECTION A 22 µµF ALL VOLTAGES ARE MEASURED FROM POINT INDICATED TO CHASSIS 2N3646 15 JH GROUND. OSCILLATOR/OUTPUT VOLTAGE READINGS TAKEN WITH AN 11 MEGOHM INPUT VTVM. (18.2) 3 RI2 RII VOLTAGES MAY VARY ±10%. 1800 +112K SWITCH SWI SHOWN IN TRANSMIT POSITION. SECTION B VOLTAGES AT Q3 AND Q4 TAKEN UNDER THE FOLLOWING CONDITIONS: CIZ C/6 \$P/4 5100 4 DUMMY LOAD POSITIONED ON TRANSMITTER OSCILLATOR COIL L4. R/3 .002 820 .002 TEST CAPACITOR C18 CONNECTED TO TP ON CIRCUIT BOARD. **⇒**ÚFD SWITCH SWI IN TRANSMIT POSITION. LFD -C/5 ANTENNA REMOVED. VOLTAGES AT 01 AND 02 TAKEN UNDER THE FOLLOWING CONDITIONS: 9HHF REGENERATION CONTROL SET FOR LOUDEST HISSING SOUND FROM SECTION C SPEAKER, THEN SET THE VOLUME CONTROL FOR MINIMUM VOLUME. ANTENNA CONNECTED. REFER TO THE X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS R/6 ON THE CIRCUIT BOARD. T2 Q2 10K 820K Q1 2N3390 R4 €4.5 AUDIO 2N2712 .1µFD AMPLIFIER / MODULATOR 820 DETECTOR (+8 **(10)** B)(+.62) .002 µFD **+8.5** 27 µµF 20 µµF .0035 SECTION D **(+.04)** μFD 10 HFD Q4 C/9 2N2712 4+2 .02 MICROPHONE #9 5100 C10+ C4 47UUF RIO ЦFD R8 2 AMPLIFIER >511 C// 33K≷ 15 HH VOLUME 50 R7 *R5* ≥1800 **(+2.5)** \sim 33K .05 UFD 1000 R3 1000 + C/2 9 VOLT REGENERATION ON OFF CONTROL

BATTERY

THIS SWITCH IS ON VOLUME CONTROL