



**SCHEMATIC OF THE
HEATHKIT®
SSB TRANSCEIVER
MODEL HW-101**

NOTES:

- LETTER-NUMBER DESIGNATIONS FOR RESISTORS, CAPACITORS, ETC., HAVE BEEN PLACED IN THE FOLLOWING GROUPS:
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|---------|-----------------------------------|
| 0-99 | PARTS ON MODULATOR CIRCUIT BOARD. |
| 100-199 | IF |
| 200-299 | BANDPASS |
| 300-399 | AUDIO |
| 400-499 | RF-DRIVER |
| 500-599 | CRYSTAL |
| 600-699 | HETERODYNE |
| 700-799 | OSCILLATOR |
| 800-899 | DRIVER GRID |
| 900-999 | DRIVER PLATE |
1. ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. ALL RESISTOR VALUES ARE IN OHMS (K = 1,000, M = 1,000,000).
2. UNLESS OTHERWISE MARKED, ALL CAPACITOR VALUES OF 1 OR OVER ARE IN P.F. AND ALL VALUES LESS THAN 1 ARE IN P.F.
3. REFER TO THE X-RAY AND CHASSIS VIEWS FOR PHYSICAL LOCATION OF PARTS.
4. SEE THE VOLTAGE CHARTS AND THE RESISTANCE CHART FOR ALL MEASUREMENTS.
5. ALL SWITCHES ARE IN THE POSITION INDICATED BY THE KNOB POINTERS.
6. ARROW (↻) INDICATES CLOCKWISE ROTATION OF KNOB (VIEWED FROM KNOB END).
7. ◊ NUMBERED COAXIAL CABLE.
8. ○ INDICATES RF VOLTAGE WITH CONTROLS SET PER FIGURE 1-21.
9. ALL RELAY CONTACTS SHOWN IN TRANSMIT (TUNE) POSITION.
10. MIC/CW LEVEL IS A DUAL CONTROL.
11. FOR GREATER CLARITY, RELAY SECTIONS ARE SHOWN CLOSEST TO THE CIRCUITS IN WHICH THEY ARE USED. ONE OF THE FOLLOWING MARKS IS USED TO IDENTIFY THE SEPARATED SECTION OF THE RELAYS:
- | | |
|---|---------------------|
| ▲ | = PART OF RELAY RL1 |
| ■ | = PART OF RELAY RL2 |
12. SWITCH WAFERS ARE IDENTIFIED AS IN THE FOLLOWING EXAMPLE:
- | | | |
|-----------------------------|--|--|
| FRONT PANEL NAME OF SWITCH. | WAFER NUMBER, WITH THE SWITCH VIEWED FROM THE FRONT PANEL. | F = FRONT SIDE OF THE WAFER. R = REAR SIDE OF THE WAFER. |
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- * VOLTAGE IS BEYOND THE RANGE OF THE HEATHKIT RF PROBE.

DIODES		
COMPONENT DESIGNATION	TYPE	HEATH PART NO.
D 1, 2, 101, 201, 301, 902, 903, 904, 905, 906	1N2071 (1 A, 600 PRV)	57-27
D901	1N4149	55-55
CR 1, 2, 3, 4, 101, 901, 941	1N191	56-26-1
D 202	15 V. Zener	56-25

TRANSISTORS			
COMPONENT DESIGNATION	HEATH PART NO.	MANUFACTURER'S NUMBER	(BOTTOM VIEW) BASING
Q91	417-169	MPP-105 FET	
Q92	417-118	2N3393	