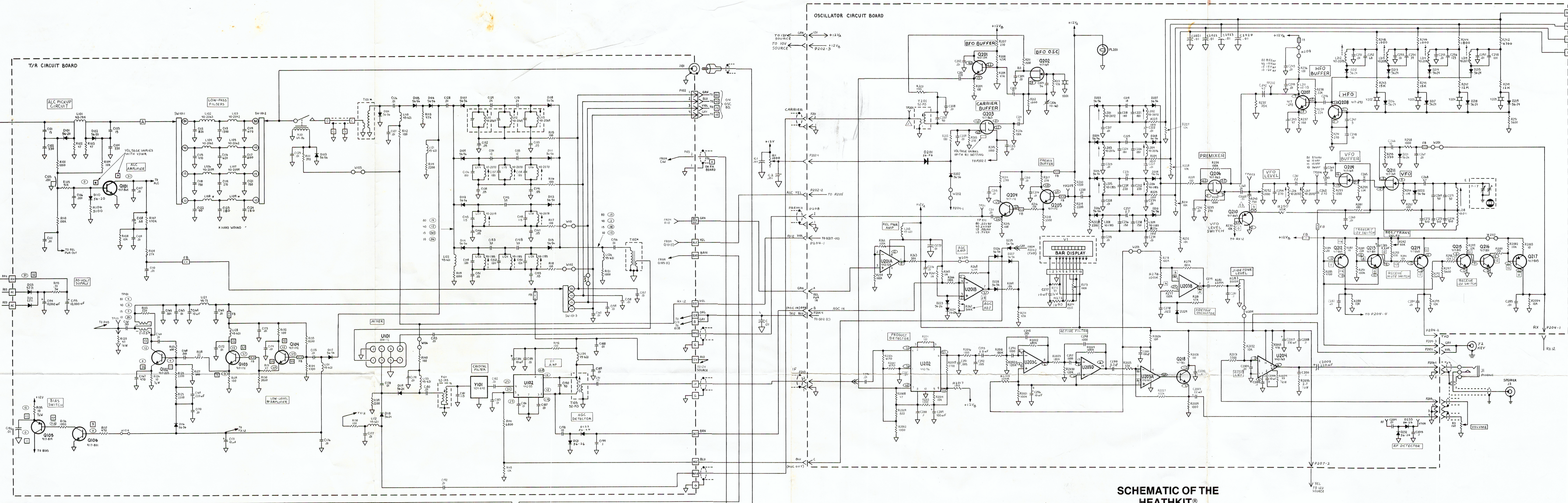




**SCHEMATIC OF THE
HEATHKIT®
NOVICE CW
TRANSCIVER
MODEL HW-99**

NOTES:

- COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:
1-99 PARTS MOUNTED ON THE CHASSIS.
100-199 PARTS MOUNTED ON THE T/R CIRCUIT BOARD.
200-299 PARTS MOUNTED ON THE OSCILLATOR CIRCUIT BOARD.
300-399 PARTS MOUNTED ON THE PA CIRCUIT BOARD.
- ALL RESISTORS ARE RATED AT 1/4-WATT AND HAVE 5% TOLERANCE UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS (K=1,000, M=1,000,000).
- CAPACITOR VALUES LESS THAN 1 ARE IN pF (PICOFARADS). ALL OTHER CAPACITOR VALUES ARE IN pF (PICOFARADS) UNLESS OTHERWISE NOTED.
- THIS SYMBOL INDICATES A POSITIVE VOLTAGE MEASURED WITH A HIGH IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND (RECEIVE MODE, NO SIGNAL INPUT).

- THIS SYMBOL INDICATES A POSITIVE VOLTAGE MEASURED FROM THE POINT INDICATED TO CHASSIS GROUND (TRANSMIT MODE).
- THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
- THIS SYMBOL INDICATES CHASSIS GROUND.
- THIS SYMBOL INDICATES A SOLDERED CONNECTION TO A CIRCUIT BOARD.
- THIS SYMBOL INDICATES A PLUG AND SOCKET.
- * INDICATES A HAND-WOUND TRANSFORMER.
- REFER TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.
- PARTS IN THE SHADED AREAS ARE CRITICAL TO CONTINUED SAFETY. REPLACE ONLY WITH THE SAME PART OR WITH THE CORRECT HEATH COMPANY PART.