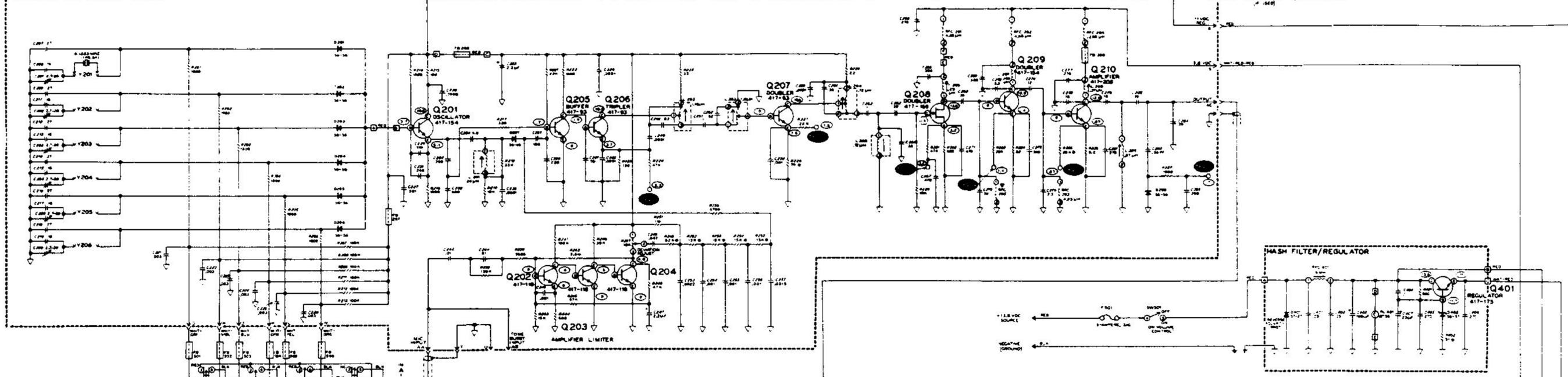
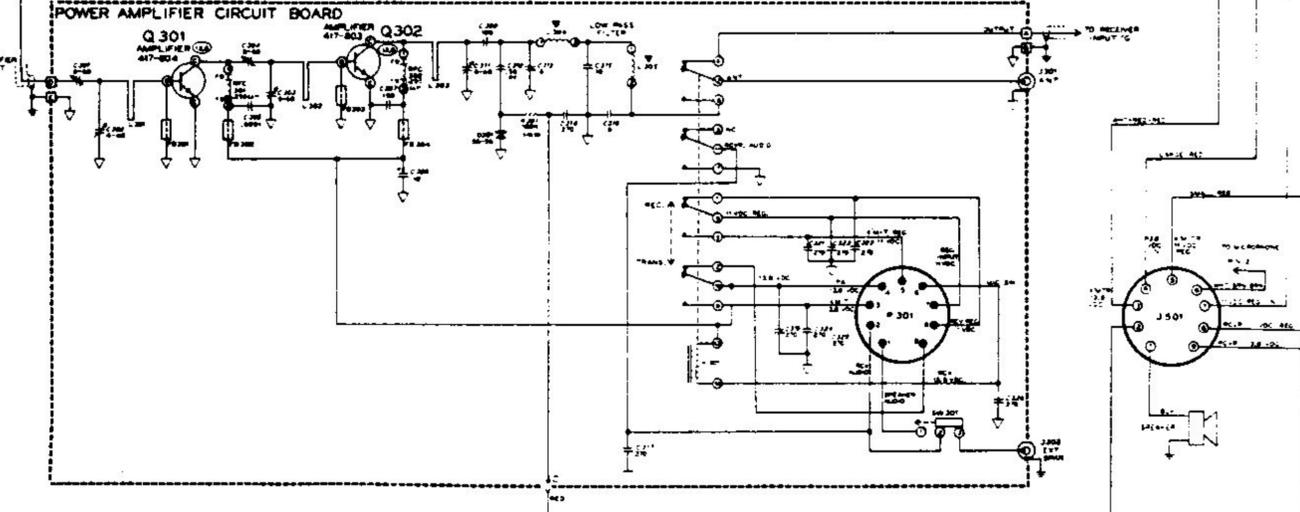
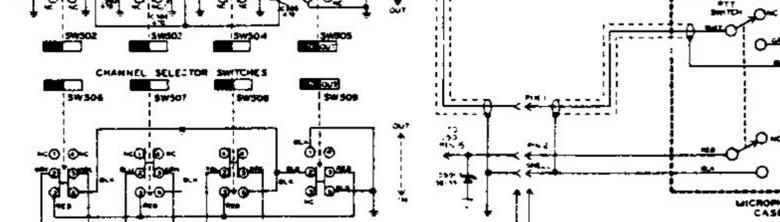


- NOTES**
- COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:
 100-199 PARTS ON THE RECEIVER CIRCUIT BOARD
 200-299 PARTS ON THE TRANSMITTER CIRCUIT BOARD
 300-399 PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
 400-499 PARTS ON THE HASH FILTER/REGULATOR CIRCUIT BOARD
 500-599 PARTS ON THE CHASSIS
 - ALL RESISTORS ARE 1/2 WATT 10% TOLERANCE UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS, K=1000, M=1,000,000.
 - CAPACITORS LESS THAN 1 ARE IN P.F. (PICOFARADS); ALL OTHER CAPACITORS ARE IN M.F. (MICROFARADS); UNLESS OTHERWISE MARKED.
 - INDUCTORS ARE SHOWN IN MH (MILLIHENRIES) AND μ H (MICROHENRIES).
 - ARROWS AT CONTROLS INDICATE CLOCKWISE ROTATION VIEWED FROM THE SHAFT END OF THE CONTROL.
 - THIS SYMBOL AROUND A PART NUMBER MEANS THAT THIS COMPONENT IS MOUNTED ON THE CHASSIS, THOUGH ITS LOCATION ON THE SCHEMATIC SUGGESTS OTHERWISE.
 - THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND UNDER THE FOLLOWING CONDITIONS:
 1. NO SIGNAL INPUT
 2. RECEIVER SQUELCHED AT THRESHOLD
 3. VOLUME FULLY COUNTERCLOCKWISE
 4. LOWEST FREQUENCY RECEIVER OSCILLATOR CRYSTAL SELECTED
 5. TRANSMITTER VOLTAGES KEYS WITHOUT MODULATION
 - THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
 - THIS SYMBOL INDICATES CHASSIS GROUND.
 - THIS SYMBOL INDICATES A CIRCUIT BOARD CONNECTOR PIN AND A FEMALE WIRE CONNECTOR.
 - THIS SYMBOL INDICATES A SOLDERED CONNECTION TO A CIRCUIT BOARD.
 - SEE TABLES 1 AND 2 FOR VOLTAGES.
 - THIS SYMBOL DESIGNATES A 5% TOLERANCE RESISTOR.
 - THIS SYMBOL DENOTES A COIL WOUND BY THE KIT BUILDER.
 - REFER TO THE "CHASSIS PHOTOGRAPHS" AND "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.
 - P301 AND J501 ARE MATING SIDE VIEWS.
 - TP-TEST POINT
 FB-FERRITE BEAD
 - THIS SYMBOL INDICATES A RECTIFIED VOLTAGE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER. USE A 100K Ω RESISTOR IN SERIES WITH THE VOLTMETER PROBE.

TRANSMITTER CIRCUIT BOARD



SCHEMATIC OF THE HEATHKIT 2-METER FM TRANSCEIVER MODEL HW-202



RECEIVER CIRCUIT BOARD

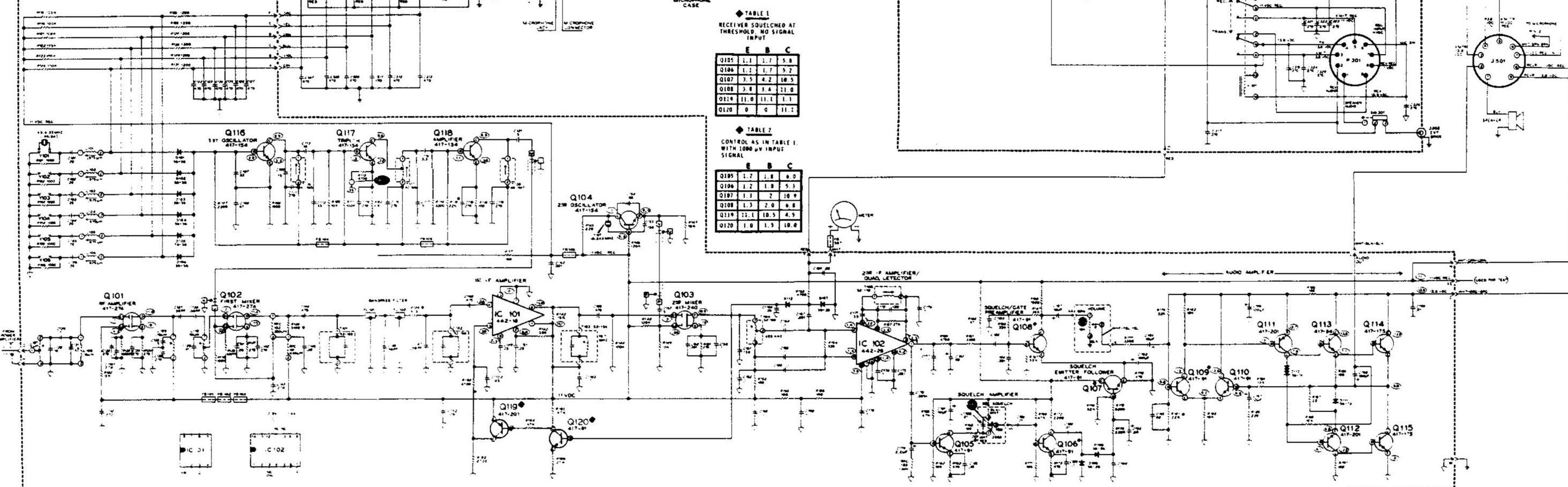


TABLE 1
RECEIVER SQUELCHED AT THRESHOLD, NO SIGNAL INPUT

	E	B	C
Q105	1.1	1.7	5.8
Q106	1.1	1.7	5.2
Q107	3.5	4.2	10.3
Q108	3.8	3.4	11.0
Q109	11.0	11.1	1.1
Q120	0	0	11.1

TABLE 2
CONTROL AS IN TABLE 1, WITH 1000 μ V INPUT SIGNAL

	E	B	C
Q105	1.2	1.8	6.0
Q106	1.2	1.8	5.3
Q107	1.3	2	10.9
Q108	1.3	2.0	6.8
Q109	11.1	10.5	4.5
Q120	1.0	1.5	10.8

NOTES

1 COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS

- 100-199 } PARTS ON THE RECEIVER CIRCUIT BOARD
- 1101-1199 } PARTS ON THE TRANSMITTER CIRCUIT BOARD
- 200-299 } PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
- 300-399 } PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
- 400-499 } PARTS ON THE MASH FILTER/REGULATOR CIRCUIT BOARD
- 500-599 } PARTS ON THE CHASSIS

2 ALL RESISTORS ARE 1/2 WATT 10% TOLERANCE UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS, K=1000, M=1 000 000.

3 CAPACITORS LESS THAN 1 ARE IN μ F (MICROFARADS); ALL OTHER CAPACITORS ARE IN pF (PICOFARADS) UNLESS OTHERWISE MARKED.

4 INDUCTORS ARE SHOWN IN MH (MILLIHENRIES) AND μ H (MICROHENRIES).

5 ARROWS AT CONTROLS INDICATE CLOCKWISE ROTATION VIEWED FROM THE SHAFT END OF THE CONTROL.

6 THIS SYMBOL AROUND A PART NUMBER MEANS THAT THIS COMPONENT IS MOUNTED ON THE CHASSIS THOUGH ITS LOCATION ON THE SCHEMATIC SUGGESTS OTHERWISE.

7 THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND UNDER THE FOLLOWING CONDITIONS:

- 1 NO SIGNAL INPUT
- 2 RECEIVER SQUELCHED AT THRESHOLD
- 3 VOLUME FULLY COUNTERCLOCKWISE
- 4 LOWEST FREQUENCY RECEIVER OSCILLATOR CRYSTAL SELECTED
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13 THIS SYMBOL DESIGNATES A 5% TOLERANCE RESISTOR.

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15 REFER TO THE "CHASSIS PHOTOGRAPHS" AND "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.

16 P301 AND J501 ARE MATING SIDE VIEWS.

17 TP-TEST POINT
FB-FERRITE BEAD

18 THIS SYMBOL INDICATES A RECTIFIED RF VOLTAGE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER. USE A 100K Ω RESISTOR IN SERIES WITH THE VOLTMETER PROBE.

TRANSMITTER CIRCUIT BOARD

