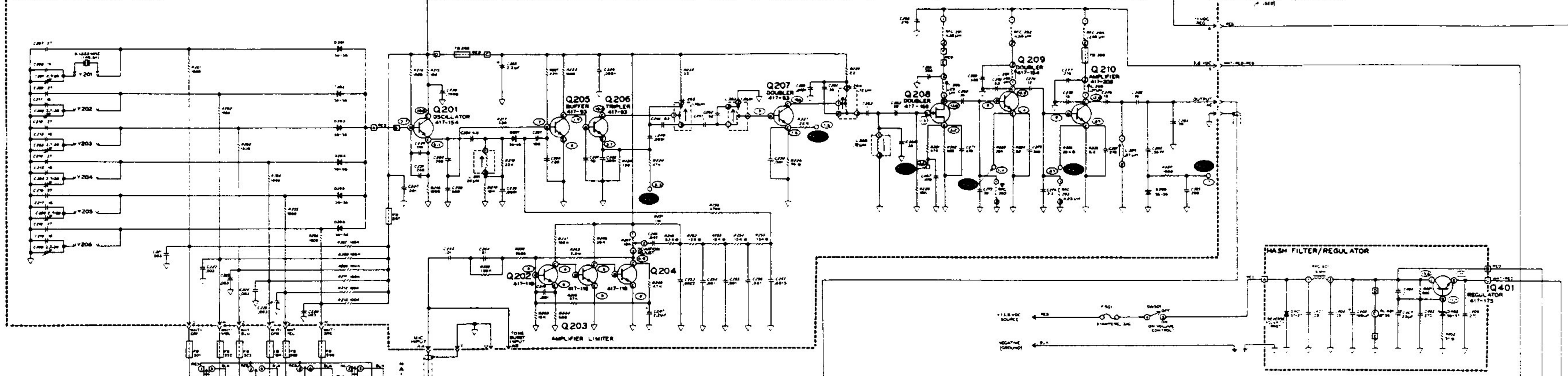
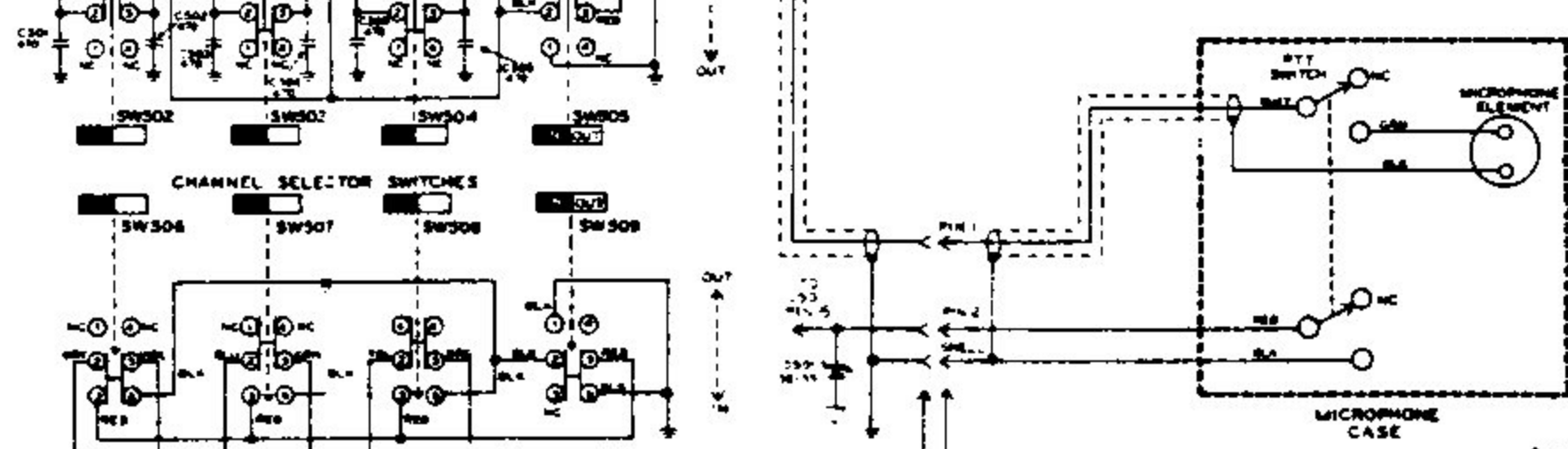


- NOTES
1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:
100-199 PARTS ON THE RECEIVER CIRCUIT BOARD
200-299 PARTS ON THE TRANSMITTER CIRCUIT BOARD
300-399 PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
400-499 PARTS ON THE HASH FILTER/REGULATOR CIRCUIT BOARD
500-599 PARTS ON THE CHASSIS
2. ALL RESISTORS 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 PICOFARADS; ALL OTHER CAPACITORS ARE IN MICROFARADS 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
5. TRANSMITTER VOLTAGES KEYS WITHOUT MODULATION
8. THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
9. THIS SYMBOL INDICATES CHASSIS GROUND.
10. THIS SYMBOL INDICATES A CIRCUIT BOARD CONNECTOR PIN AND A FEMALE WIRE CONNECTOR.
11. THIS SYMBOL INDICATES A SOLDERED CONNECTION TO A CIRCUIT BOARD.
12. SEE TABLES 1 AND 2 FOR VOLTAGES.
13. THIS SYMBOL DESIGNATES A 5% TOLERANCE RESISTOR.
14. THIS SYMBOL DENOTES A COIL WOUND BY THE KIT BUILDER.
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 VOLTAGE MEASURED WITH A HIGH INPUT IMPEDANCE VOLTMETER. (USE A 100K RESISTOR IN SERIES WITH THE VOLTMETER PROBE.)

TRANSMITTER CIRCUIT BOARD



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



POWER AMPLIFIER CIRCUIT BOARD

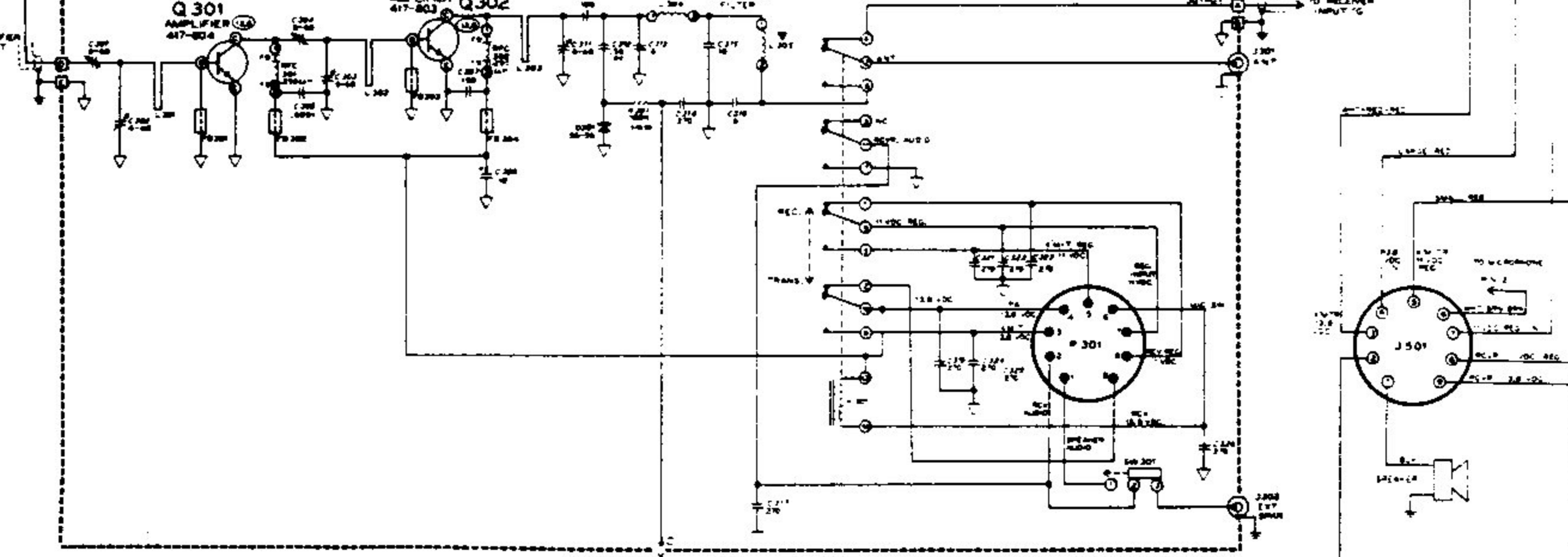


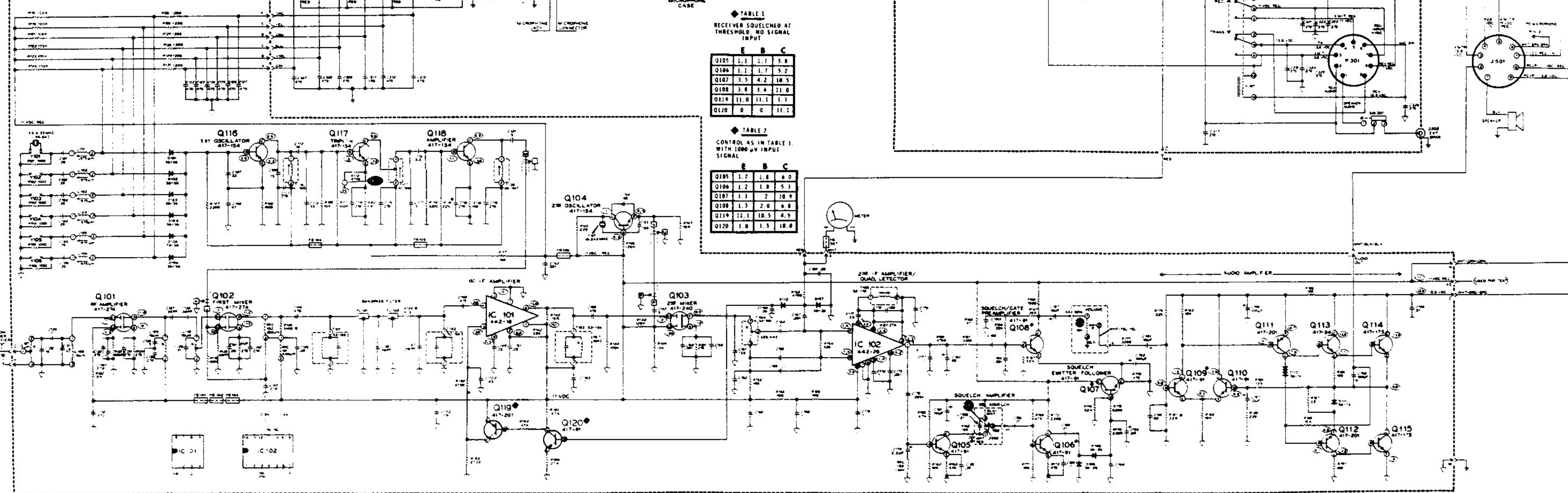
TABLE 1
RECEIVER SQUELCHED AT THRESHOLD, NO SIGNAL INPUT

	E	B	C
Q105	1.1	1.7	5.8
Q106	1.1	1.7	5.2
Q107	3.5	4.2	10.5
Q108	3.6	3.4	21.0
Q119	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
Q119	11.1	10.5	4.5
Q120	1.0	1.5	10.8

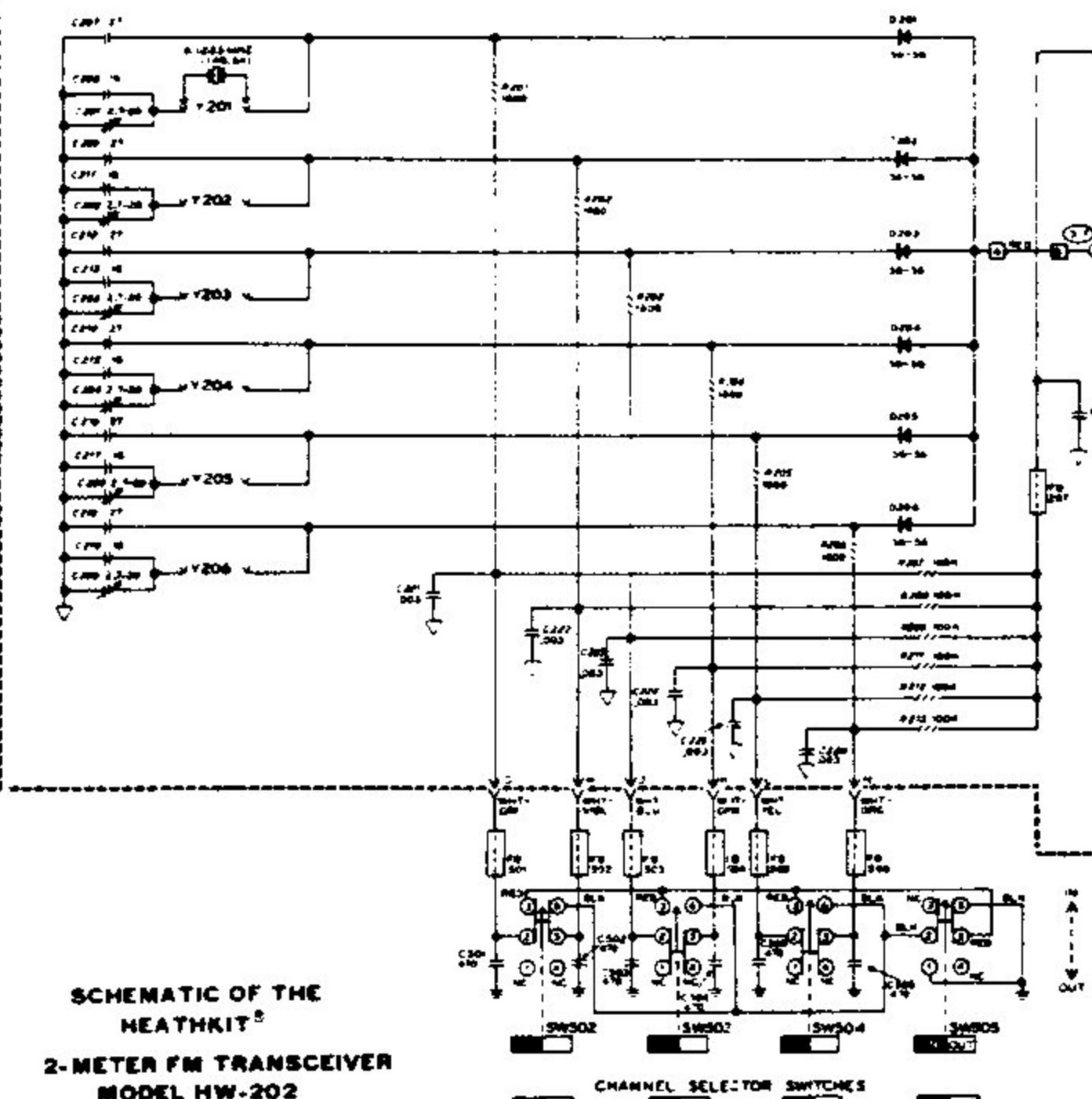
RECEIVER CIRCUIT BOARD



NOTES

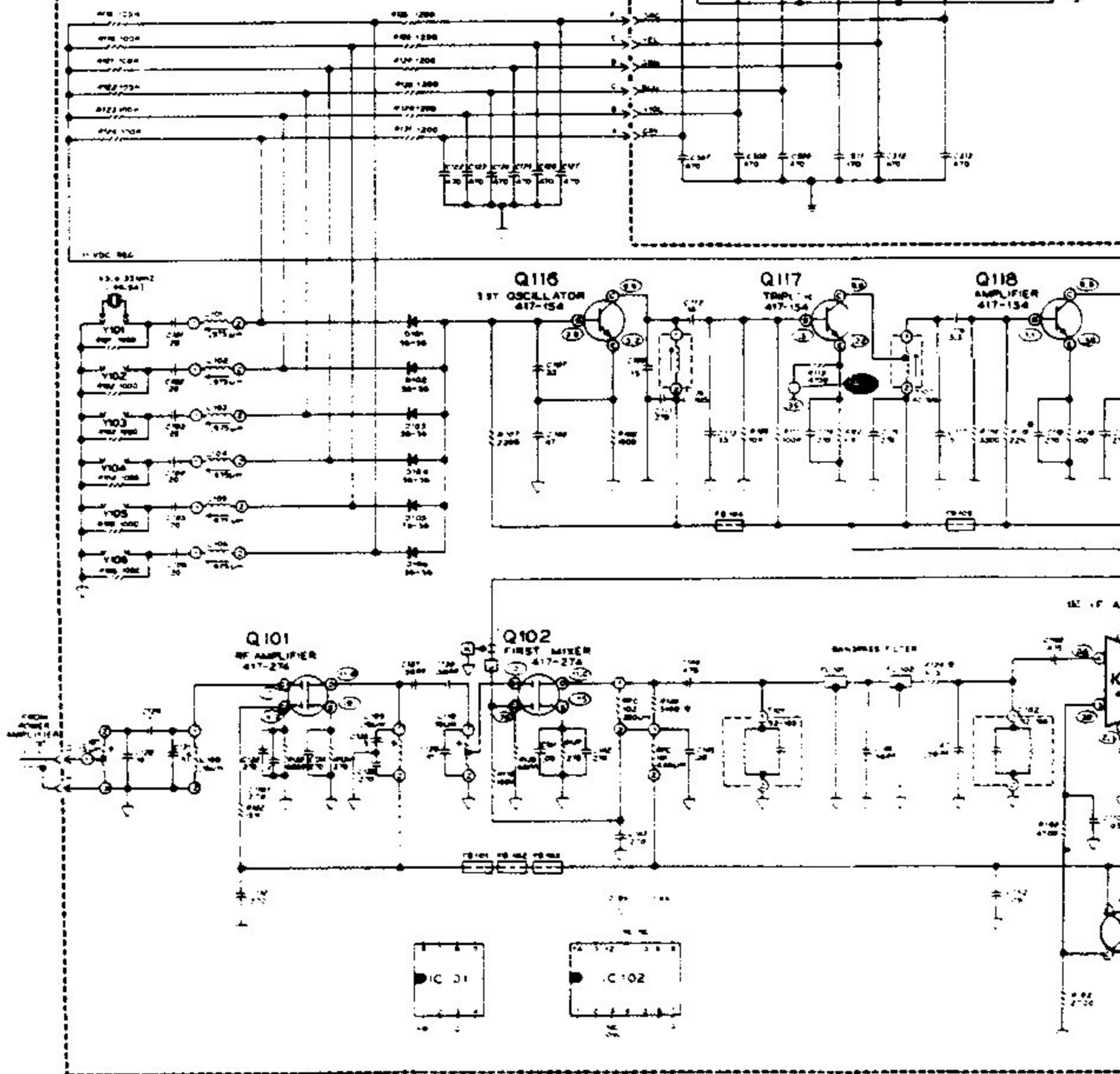
1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS
 - 100-199 } PARTS ON THE RECEIVER CIRCUIT BOARD
 - 1101-1199 } PARTS ON THE TRANSMITTER CIRCUIT BOARD
 - 200-299 } PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
 - 300-399 } PARTS ON THE POWER AMPLIFIER CIRCUIT BOARD
 - 400-499 } PARTS ON THE MASH FILTER/REGULATOR 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 PF (PICOFARADS); ALL OTHER CAPACITORS ARE IN UF (MICROFARADS) UNLESS OTHERWISE MARKED.
4. INDUCTORS ARE SHOWN IN MM (MILLIHENRIES) AND MH (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 VOLT-METER 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
8.  THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
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10.  THIS SYMBOL INDICATES A CIRCUIT BOARD CONNECTOR PIN AND A FEMALE WIRE CONNECTOR.
11.  THIS SYMBOL INDICATES A SOLDERED CONNECTION TO A CIRCUIT BOARD.
12.  SEE TABLES 1 AND 2 FOR VOLTAGES.
13.  THIS SYMBOL DESIGNATES A 5% TOLERANCE RESISTOR.
14.  THIS SYMBOL DENOTES A COIL WOUND BY THE KIT BUILDER.
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 VOLT-METER. USE A 100KΩ RESISTOR IN SERIES WITH THE VOLT-METER PROBE.

TRANSMITTER CIRCUIT BOARD



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

RECEIVER CIRCUIT BOARD



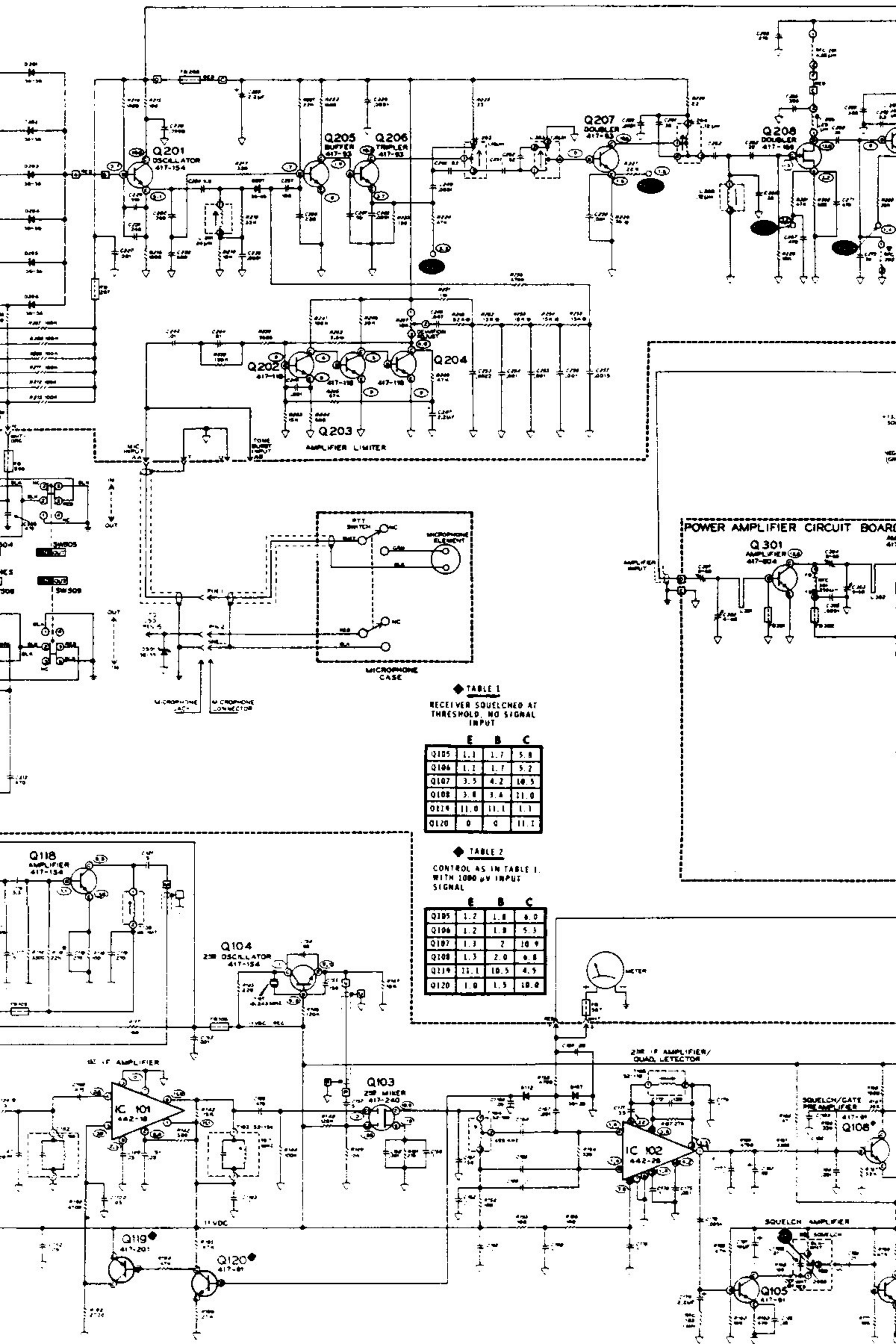


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