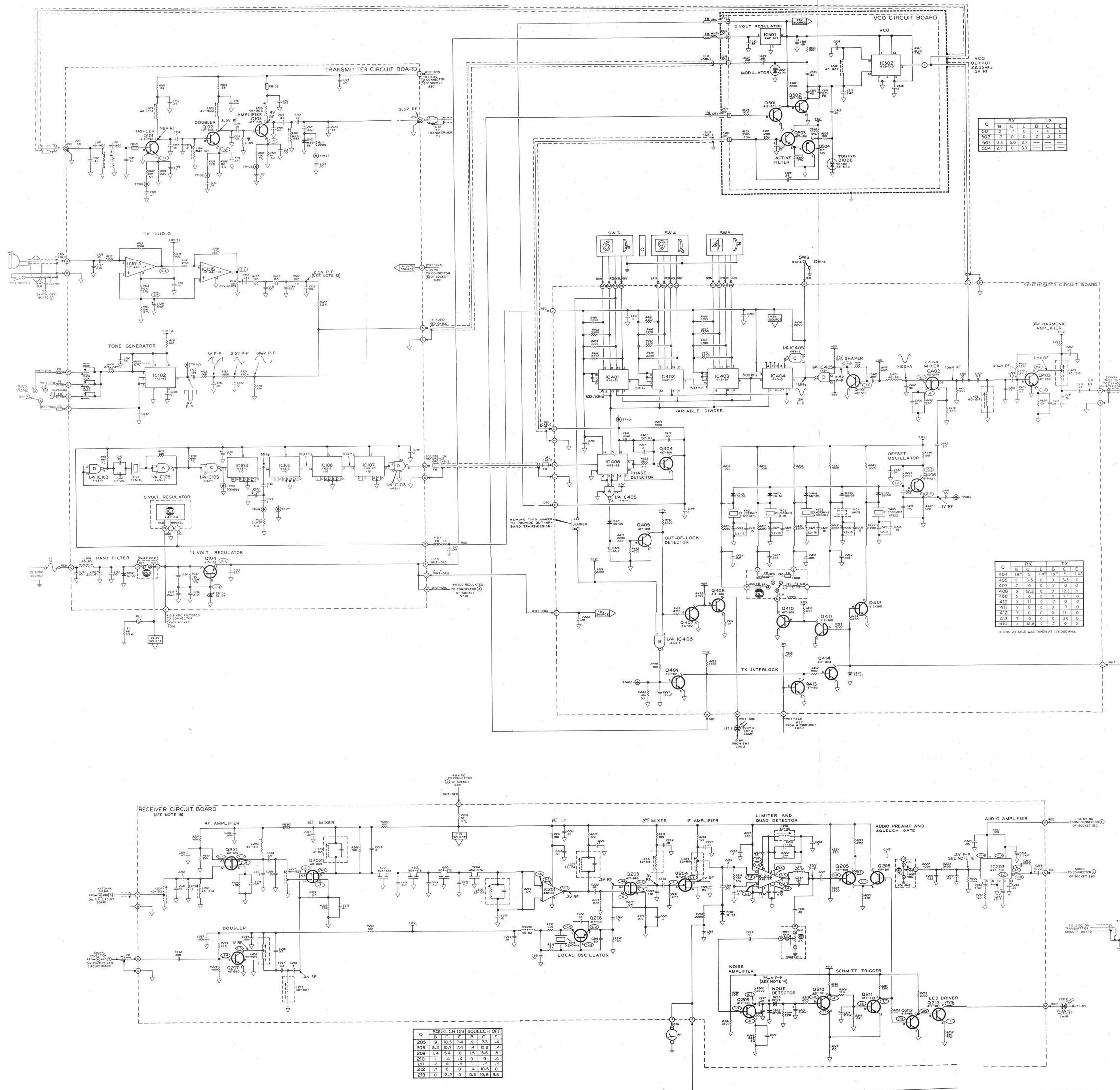




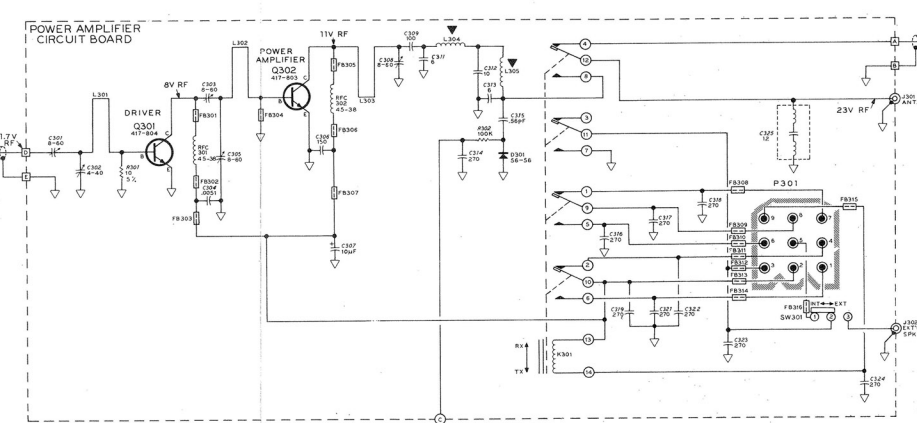
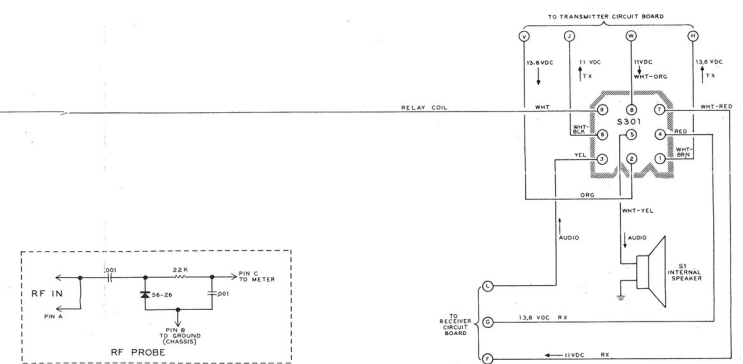
SCHEMATIC OF THE HEATHKIT® SYNTHESIZED 2-METER FM TRANSCEIVER MODEL HW-2036

Part of 595-1939-04

NOTES:

- COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS:
1-99 PARTS MOUNTED ON THE CHASSIS.
100-199 PARTS MOUNTED ON THE TRANSMITTER CIRCUIT BOARD.
200-299 PARTS MOUNTED ON THE RECEIVER CIRCUIT BOARD.
300-399 PARTS MOUNTED ON THE POWER AMPLIFIER CIRCUIT BOARD.
400-499 PARTS MOUNTED ON THE SYNTHESIZER CIRCUIT BOARD.
500-599 PARTS MOUNTED ON THE VCO CIRCUIT BOARD.
- ALL RESISTORS ARE 1/4-WATT, 10% TOLERANCE, UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS; K=1000; M=1,000,000.
- CAPACITORS LESS THAN 1 ARE IN µF (MICROFARADS). ALL OTHER CAPACITORS ARE IN pF (PICOFARADS) UNLESS OTHERWISE NOTED.
- ARROWS AT CONTROLS INDICATE CLOCKWISE ROTATION AS VIEWED FROM THE SHAFT END OF THE CONTROL.
- THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASURED WITH A HIGH IMPEDANCE VOLTMEETER FROM THE POINT INDICATED TO CHASSIS GROUND UNDER THE FOLLOWING CONDITIONS:
1. NO SIGNAL INPUT.
2. RECEIVER SQUELCHED AT THRESHOLD.
3. VOLUME CONTROL FULLY COUNTERCLOCKWISE.
4. TRANSMITTER VOLTAGES: KEYED WITHOUT MODULATION.
- 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 COIL WOUND BY THE KIT BUILDER.
- REFER TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.
- THIS SYMBOL INDICATES A TEST POINT.
- THIS VOLTAGE WAS MEASURED WITH A FULL QUIETING, MODULATED SIGNAL INPUT. AUDIO OUTPUT IS SET FOR 1 WATT (2.8V IN AN 8Ω LOAD).
- MEASURED WITH A 1 kHz SIGNAL (OR STEADY WHISTLE) INPUT AT MICROPHONE.
- MEASURED WITH NO SIGNAL INPUT.
- ALL RECEIVER RF LEVELS WERE MEASURED WITH CIRCUIT IN FULL LIMITING.

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Q	SQUELCH ON	SQUELCH OFF
205	0	10.5
206	8.2	0.7
207	1.4	0.4
208	1.4	0.4
209	1.4	0.4
210	1.4	0.4
211	1.4	0.4
212	1.4	0.4
213	0	10.5