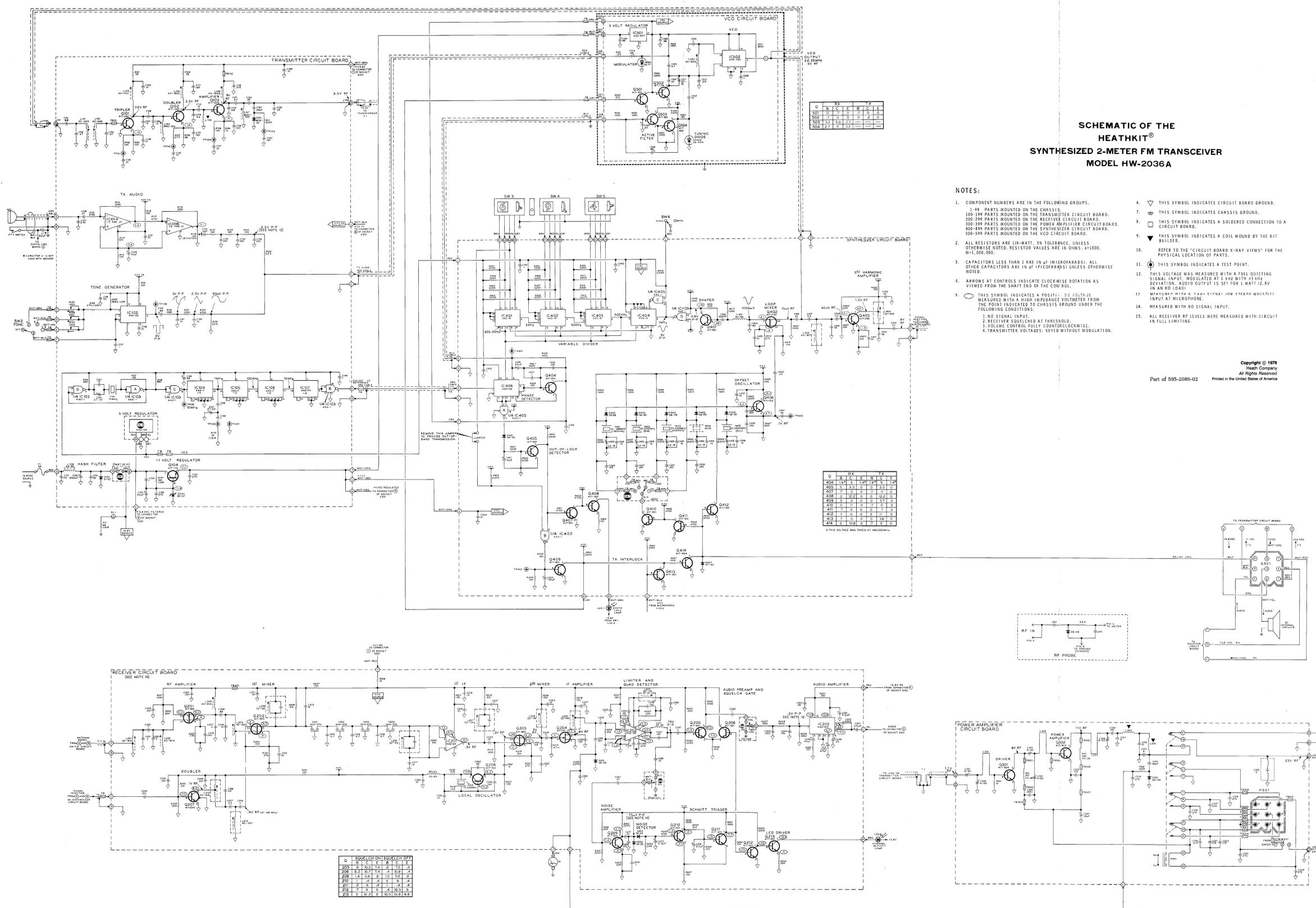


**SCHEMATIC OF THE
HEATHKIT®
SYNTHESIZED 2-METER FM TRANSCEIVER
MODEL HW-2036A**



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, 5% TOLERANCE, UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS; K=1,000; M=1,000,000.
- CAPACITORS LESS THAN 1 ARE IN μ F (MICROFARADS). ALL OTHER CAPACITORS ARE IN pF (PICOFARADS) UNLESS OTHERWISE NOTED.
- ARROWS AT CONTROLS INDICATE CLOCKWISE ROTATION AS VIEWED FROM THE SHIRT END OF THE CONTROL.
- THIS SYMBOL INDICATES A POSITIVE 2.5 VOLTAGE MEASURED WITH A HIGH IMPEDANCE VOLTMETER 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: KEYS 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 SIGNAL INPUT, MODULATED AT 1 kHz WITH ± 3 HZ DEVIATION. AUDIO OUTPUT IS SET FOR 1 WATT (2.8V IN 8 Ω LOAD).
- MEASURED WITH A 1 kHz 4-PHASE 100-STEP WHISTLER INPUT AT MICROPHONE.
- MEASURED WITH NO SIGNAL INPUT.
- ALL RECEIVER RF LEVELS WERE MEASURED WITH CIRCUIT IN FULL LIMITING.

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| Q | S | Q | S | Q | S | Q | S |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 900 | 900 | 900 | 900 | 900 | 900 | 900 | 900 |

| Q | R | X | Y |
|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 |
| 100 | 100 | 100 | 100 |
| 200 | 200 | 200 | 200 |
| 300 | 300 | 300 | 300 |
| 400 | 400 | 400 | 400 |
| 500 | 500 | 500 | 500 |
| 600 | 600 | 600 | 600 |
| 700 | 700 | 700 | 700 |
| 800 | 800 | 800 | 800 |
| 900 | 900 | 900 | 900 |

