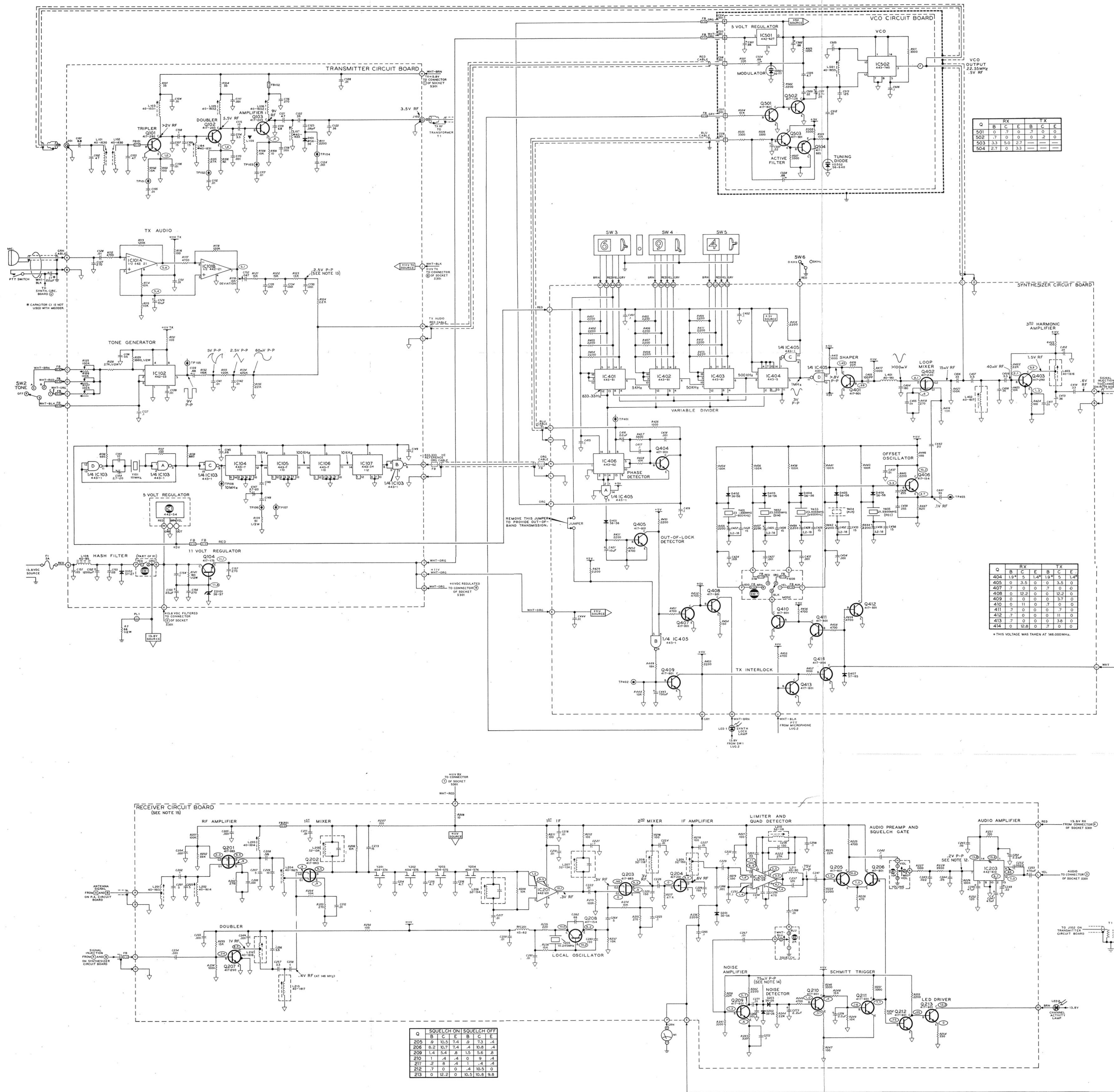




SCHEMATIC OF THE HEATHKIT® SYNTHESIZED 2-METER FM TRANSCEIVER MODEL HW-2036A

NOTES:

1. 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.
2. ALL RESISTORS ARE 1/4-WATT, 5% TOLERANCE, UNLESS OTHERWISE NOTED. RESISTOR VALUES ARE IN OHMS; K=1,000, M=1,000,000.
3. CAPACITORS LESS THAN 1 ARE IN pF (PICOFARADS). ALL OTHER CAPACITORS ARE IN pF (PICOFARADS) UNLESS OTHERWISE NOTED.
4. ARROWS AT CONTROLS INDICATE COUNTERCLOCKWISE ROTATION AS VIEWED FROM THE SHAFT END OF THE CONTROL.
5. THIS SYMBOL INDICATES A POSITIVE D.C. 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.
6. THIS SYMBOL INDICATES CIRCUIT BOARD GROUND.
7. THIS SYMBOL INDICATES CHASSIS GROUND.
8. THIS SYMBOL INDICATES A SOLDERED CONNECTION TO A CIRCUIT BOARD.
9. THIS SYMBOL INDICATES A COIL WOUND BY THE KIT BUILDER.
10. REFER TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.
11. THIS SYMBOL INDICATES A TEST POINT.
12. THIS VOLTAGE WAS MEASURED WITH A FULL QUIETING SIGNAL INPUT, MODULATED AT 1 kHz WITH ±3 kHz DEVIATION. AUDIO OUTPUT IS SET FOR 1 WATT (2.8V IN AN 8Ω LOAD).
13. MEASURED WITH A 1 kHz ±5% SIGNAL (OR STEADY WHISTLE) INPUT AT MICROPHONE.
14. MEASURED WITH NO SIGNAL INPUT.
15. ALL RECEIVER RF LEVELS WERE MEASURED WITH CIRCUIT IN FULL LIMITING.

Copyright © 1978
Heath Company
All Rights Reserved
Part of 595-2086-02 Printed in the United States of America

