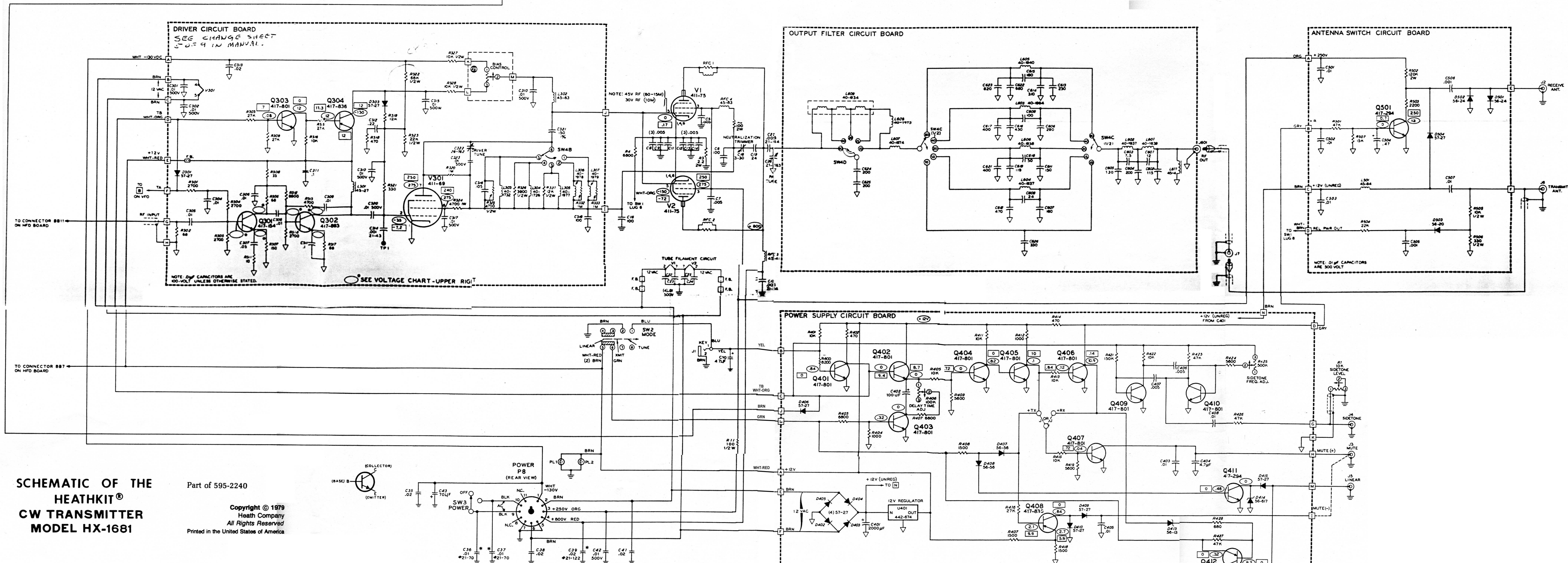
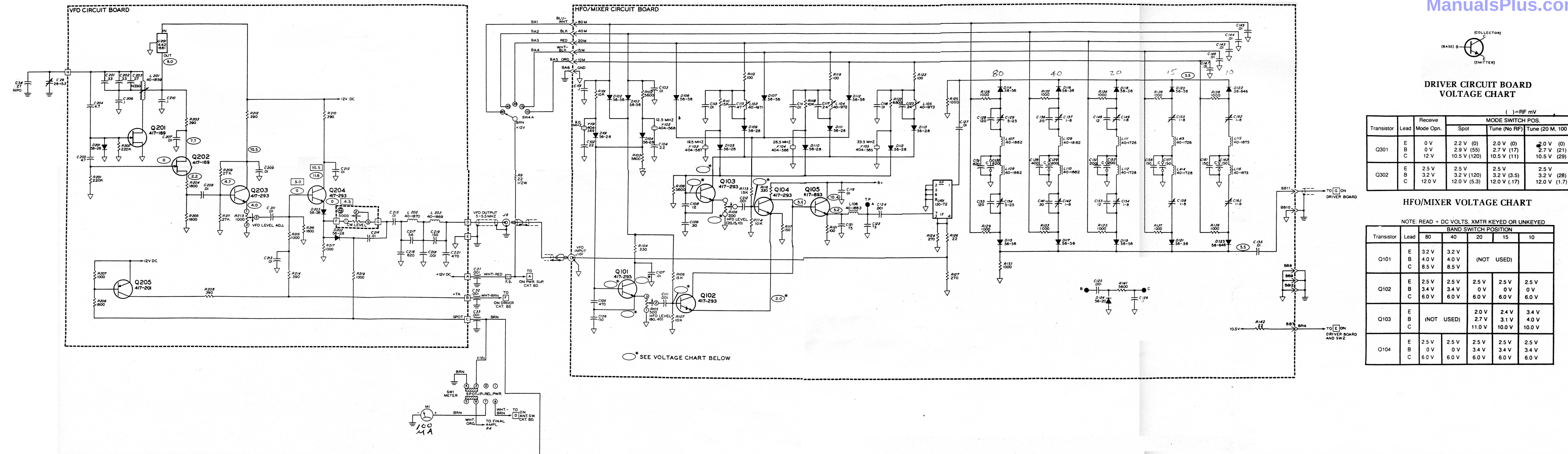




NOTES:

- COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS.
 - 1-99 PARTS MOUNTED ON THE CHASSIS.
 - 100-199 PARTS MOUNTED ON THE HFO/MIXER CIRCUIT BOARD.
 - 200-299 PARTS MOUNTED ON THE VFO CIRCUIT BOARD.
 - 300-399 PARTS MOUNTED ON THE DRIVER CIRCUIT BOARD.
 - 400-499 PARTS MOUNTED ON THE POWER SUPPLY CIRCUIT BOARD.
 - 500-599 PARTS MOUNTED ON THE ANTENNA SWITCH CIRCUIT BOARD.
 - 600-699 PARTS MOUNTED ON THE OUTPUT FILTER 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 SHAFT END OF THE CONTROL.

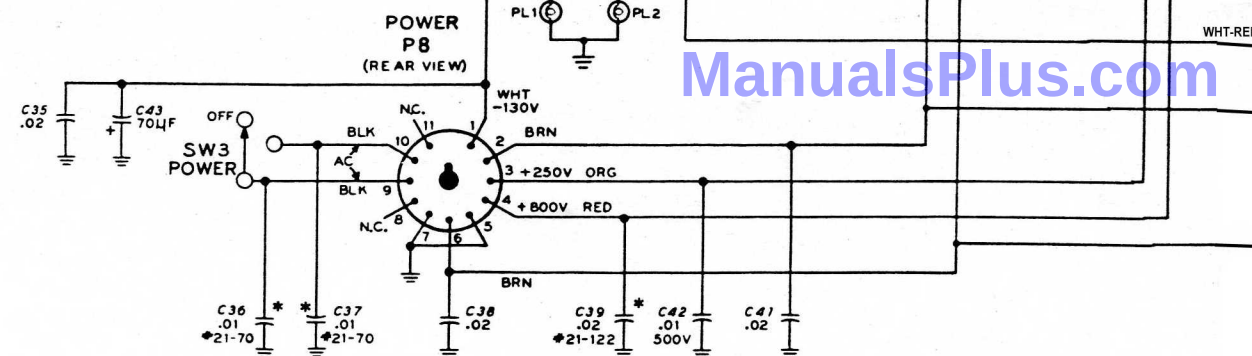
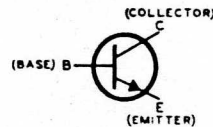
- THIS SYMBOL INDICATES A DC VOLTAGE ($\pm 10\%$) MEASURED WITH A HIGH-INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND UNDER THE FOLLOWING CONDITIONS.
 - A. THE TRANSMITTER IS UNKEYED.
 - B. MODE SWITCH IN THE XMIT POSITION.
- THIS SYMBOL INDICATES A DC VOLTAGE ($\pm 10\%$) MEASURED AS IN STEP 5, UNDER THE FOLLOWING CONDITIONS.
 - TRANSMITTER KEYED OR
 - MODE SWITCH IN THE TUNE POSITION.
- THIS SYMBOL INDICATES A CIRCUIT BOARD GROUND.
- THIS SYMBOL INDICATES A CHASSIS GROUND.
- THIS SYMBOL INDICATES A CHASSIS-MOUNTED PART, SHOWN ON A CIRCUIT BOARD.

- THIS SYMBOL INDICATES A CIRCUIT BOARD WIRED CONNECTION.
- THIS SYMBOL INDICATES AN EDGE-MOUNTED CIRCUIT BOARD CONNECTION.
- THIS SYMBOL, SHOWN ON THE HFO/MIXER CIRCUIT BOARD, INDICATES A TEMPORARILY MOUNTED CAPACITOR USED ONLY DURING ALIGNMENT.
- REPLACE CAPACITORS ONLY WITH HEATHKIT PART NUMBERS SHOWN.
- REFER TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.

SCHEMATIC OF THE HEATHKIT® CW TRANSMITTER MODEL HX-1681

Part of 595-2240

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NOTES:

1. COMPONENT NUMBERS ARE IN THE FOLLOWING GROUPS.

- 1-99 PARTS MOUNTED ON THE CHASSIS.
- 100-199 PARTS MOUNTED ON THE HFO/MIXER CIRCUIT BOARD.
- 200-299 PARTS MOUNTED ON THE VFO CIRCUIT BOARD.
- 300-399 PARTS MOUNTED ON THE DRIVER CIRCUIT BOARD.
- 400-499 PARTS MOUNTED ON THE POWER SUPPLY CIRCUIT BOARD.
- 500-599 PARTS MOUNTED ON THE ANTENNA SWITCH CIRCUIT BOARD.
- 600-699 PARTS MOUNTED ON THE OUTPUT FILTER CIRCUIT BOARD.

2. ALL RESISTORS ARE 1/4-WATT, 5% 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 NOTED.

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

5. THIS SYMBOL INDICATES A DC VOLTAGE ($\pm 10\%$) MEASURED WITH A HIGH-INPUT IMPEDANCE VOLTMEETER FROM THE POINT INDICATED TO CHASSIS GROUND UNDER THE FOLLOWING CONDITIONS.

- A. THE TRANSMITTER IS UNKEYED.
- B. MODE SWITCH IN THE XMIT POSITION.

6. THIS SYMBOL INDICATES A DC VOLTAGE, ($\pm 10\%$) MEASURED AS IN STEP 5, UNDER THE FOLLOWING CONDITIONS.
TRANSMITTER KEYED OR
MODE SWITCH IN THE TUNE POSITION.

7. THIS SYMBOL INDICATES A CIRCUIT BOARD GROUND.

8. THIS SYMBOL INDICATES A CHASSIS GROUND.

9. THIS SYMBOL INDICATES A CHASSIS-MOUNTED PART, SHOWN ON A CIRCUIT BOARD.

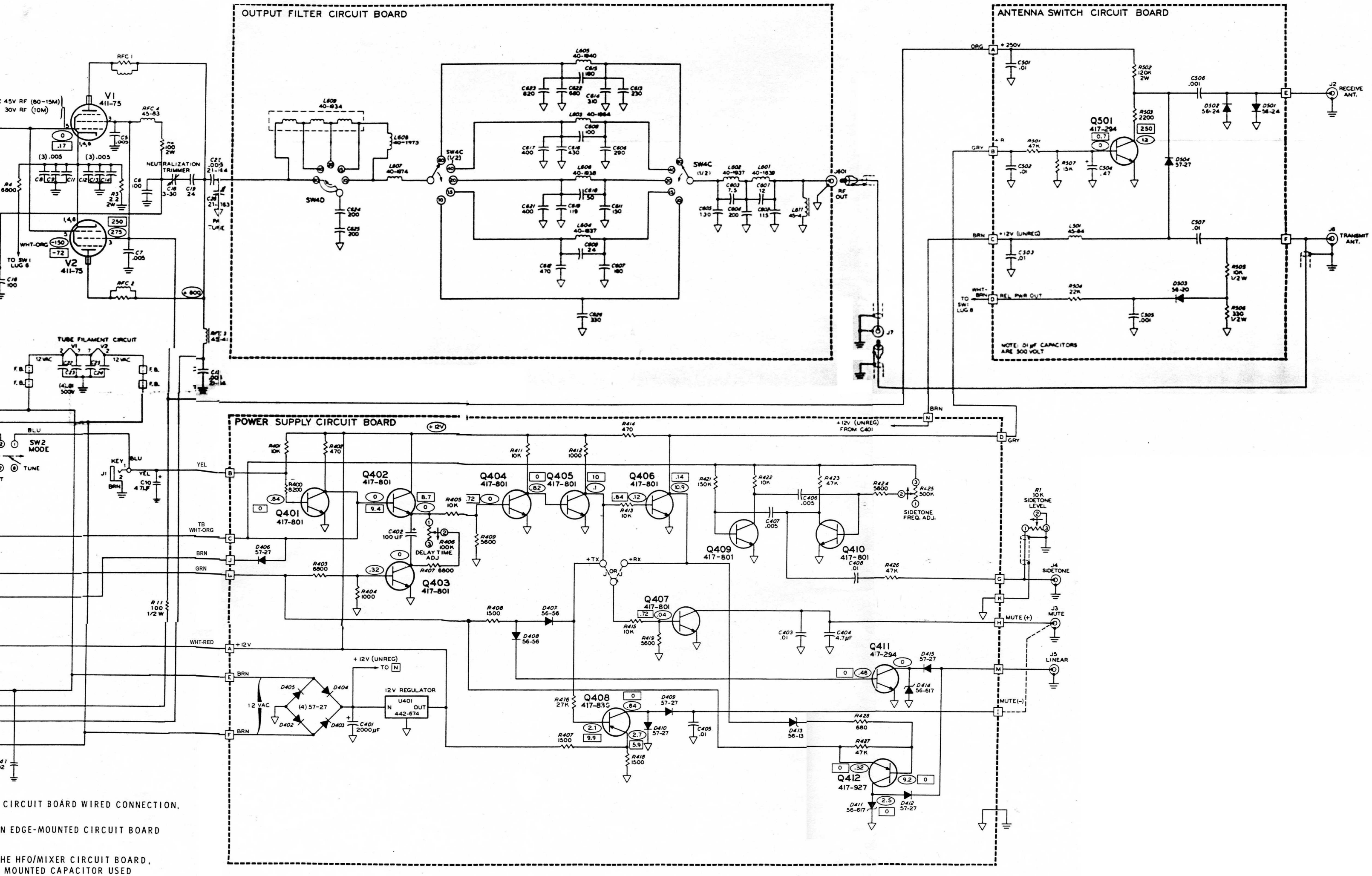
10. THIS SYMBOL INDICATES A CIRCUIT BOARD WIRED CONNECTION.

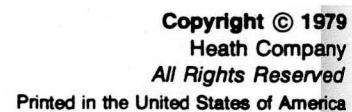
11. THIS SYMBOL INDICATES AN EDGE-MOUNTED CIRCUIT BOARD CONNECTION.

12. THIS SYMBOL, SHOWN ON THE HFO/MIXER CIRCUIT BOARD, INDICATES A TEMPORARILY MOUNTED CAPACITOR USED ONLY DURING ALIGNMENT.

13. REPLACE CAPACITORS ONLY WITH HEATHKIT PART NUMBERS SHOWN.

14. REFER TO THE "CIRCUIT BOARD X-RAY VIEWS" FOR THE PHYSICAL LOCATION OF PARTS.







① PWR.

② WHT.-
BRN

TO ON
ANT SW.
D CKT. BD.

FINAL
PL.

VFO CIRCUIT BOARD

