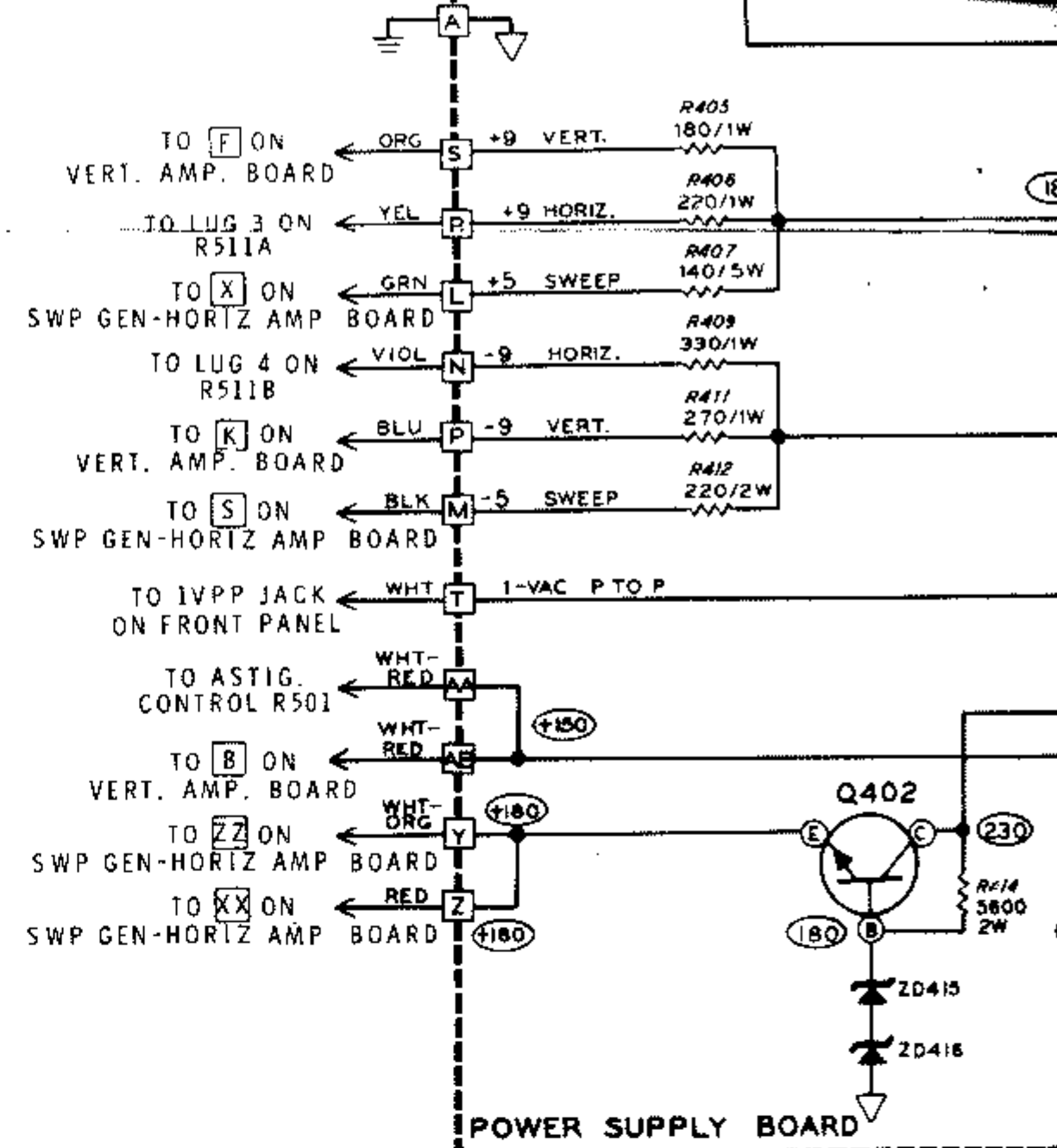
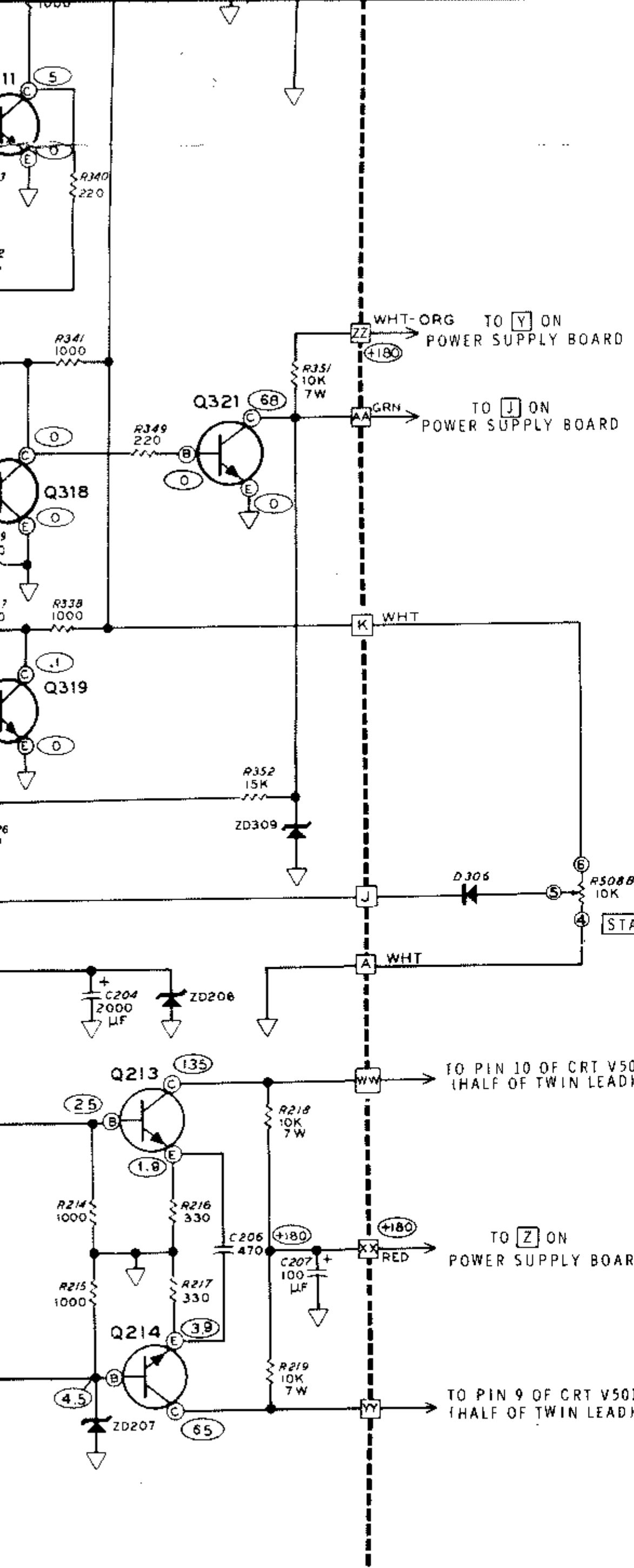
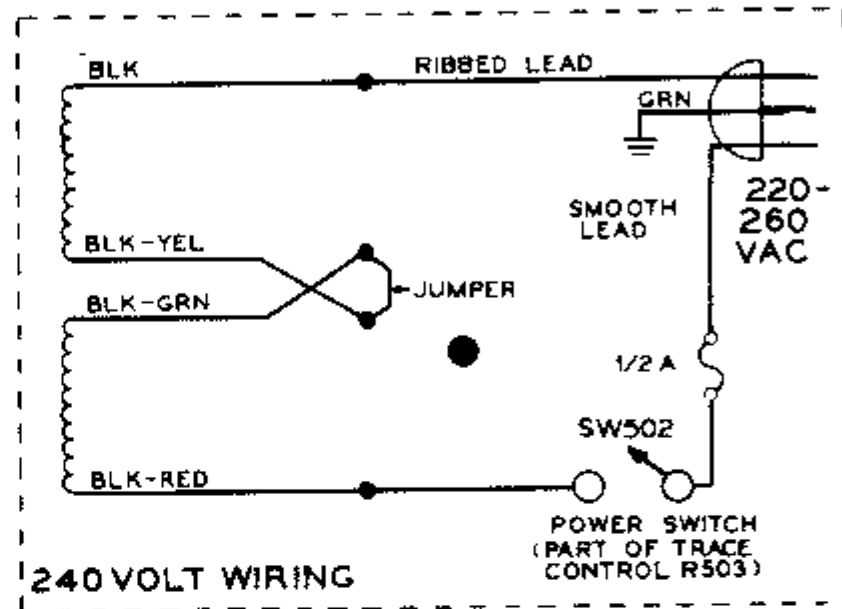
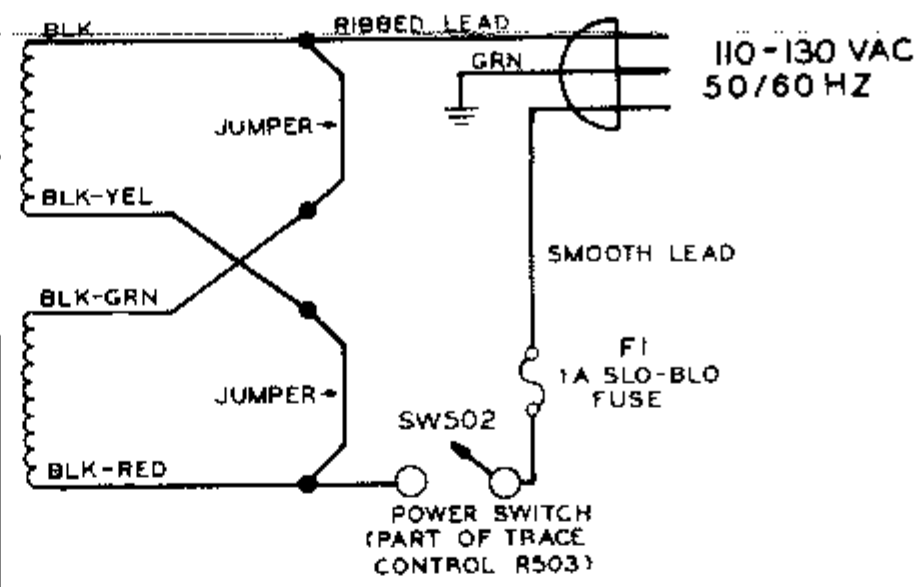
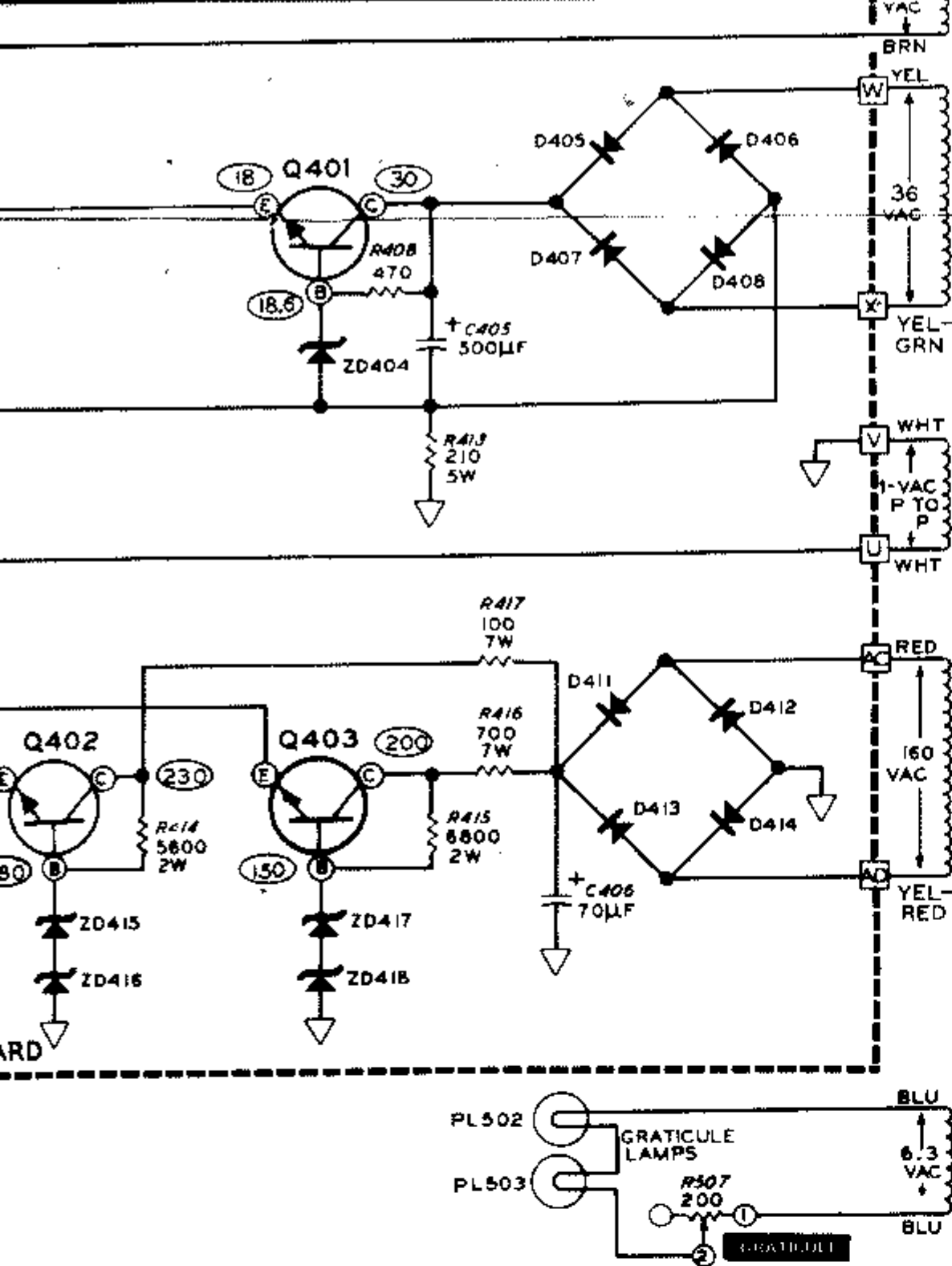


OR-HORIZONTAL AMPLIFIER BOARD



NOTES:

1. ALL RESISTORS IN THE SWEEP GENERATOR CIRCUIT ARE 1/4 WATT UNLESS OTHERWISE INDICATED.
2. ALL OTHER RESISTORS ARE 1/2 WATT UNLESS OTHERWISE INDICATED.
3. ALL CAPACITORS LESS THAN ONE (.01 ETC.) ARE IN μ F ALL OTHERS ARE IN PF UNLESS OTHERWISE INDICATED.
4. THE AC-GND-DC SWITCH, SW-501, IS SHOWN IN THE DC POSITION.
5. TRIGGER SWITCHES SW-503, SW-504, SW-505, AND SW-506 ARE TO BE KEPT IN THEIR LEVERS IN THE DOWN POSITION.
6. THE VOLTS/CM AND TIME/CM SWITCHES ARE SHOWN IN THEIR LEVERS IN THE CLOCKWISE POSITIONS.
7. THIS SYMBOL INDICATES THE DC VOLTAGE THAT SHOULD BE MEASURED AT THE INDICATED CIRCUIT POINT.



RESISTORS IN THIS CIRCUIT ARE 1/4 WATT UNLESS

OTHERWISE INDICATED.

VALUES ARE IN μF ALL OTHER CAPACITORS

ARE IN THE DC POSITION.

AND SW-506 ARE SHOWN WITH

POSITIONS SHOWN IN THEIR FULLY COUNTER-

POSITIONS THAT SHOULD BE PRESENT AT

8. ALL VOLTAGES WERE MEASURED WITH A HIGH IMPEDANCE INPUT VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY $\pm 10\%$ AND ARE TAKEN UNDER THE FOLLOWING CONDITIONS:

- A. SW-501 IN GND POSITION.
- B. NO HORIZONTAL INPUT SIGNAL.
- C. ALL TRIGGER SWITCHES UP.
- D. TIME/CM (SWEEP) SWITCH SW-304 IN THE FULLY CLOCKWISE "EXT. IN" POSITION.
- E. STABILITY CONTROL MAXIMUM CCW

9.  THIS SYMBOL INDICATES CIRCUIT BOARD GROUND

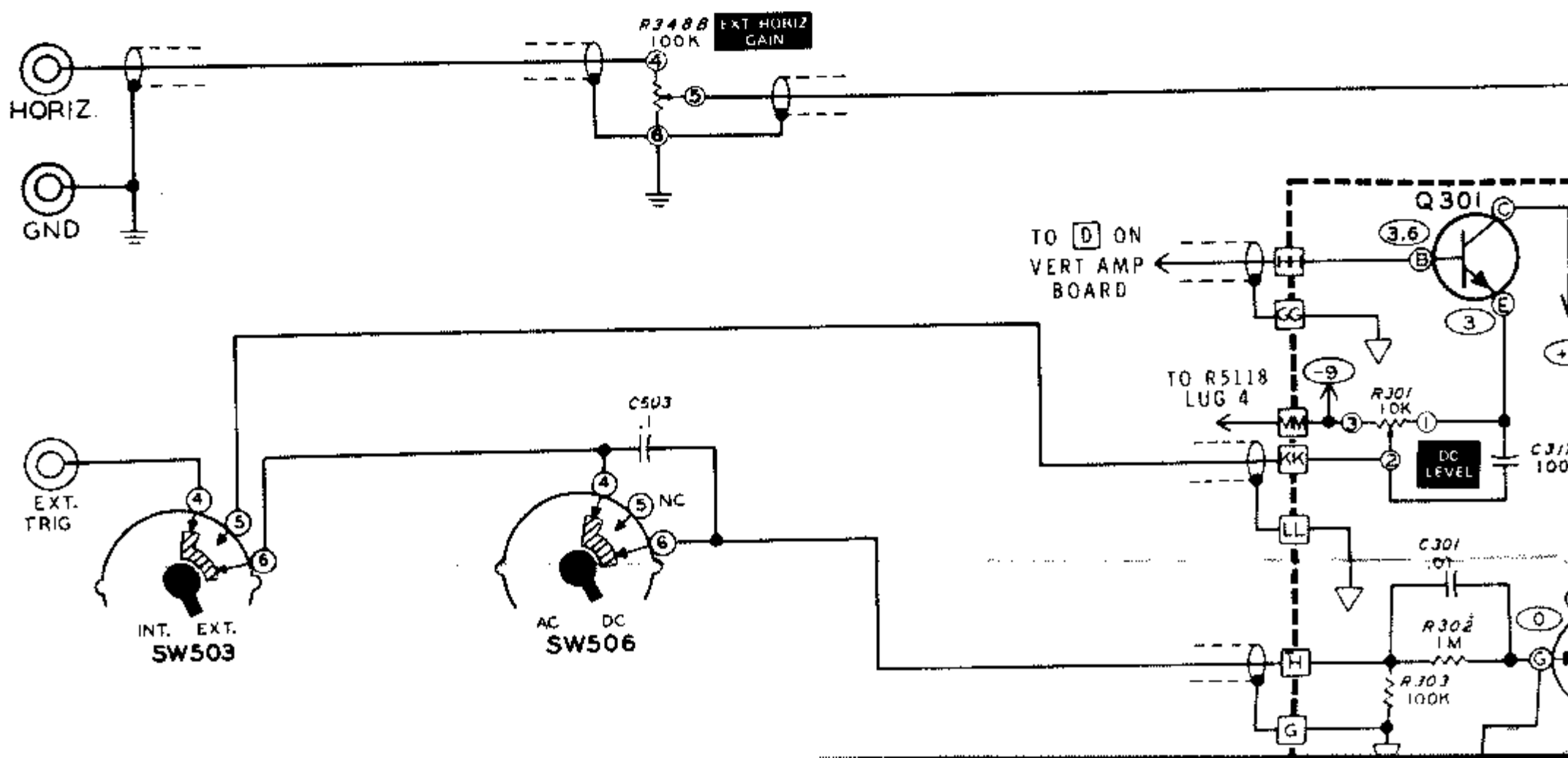
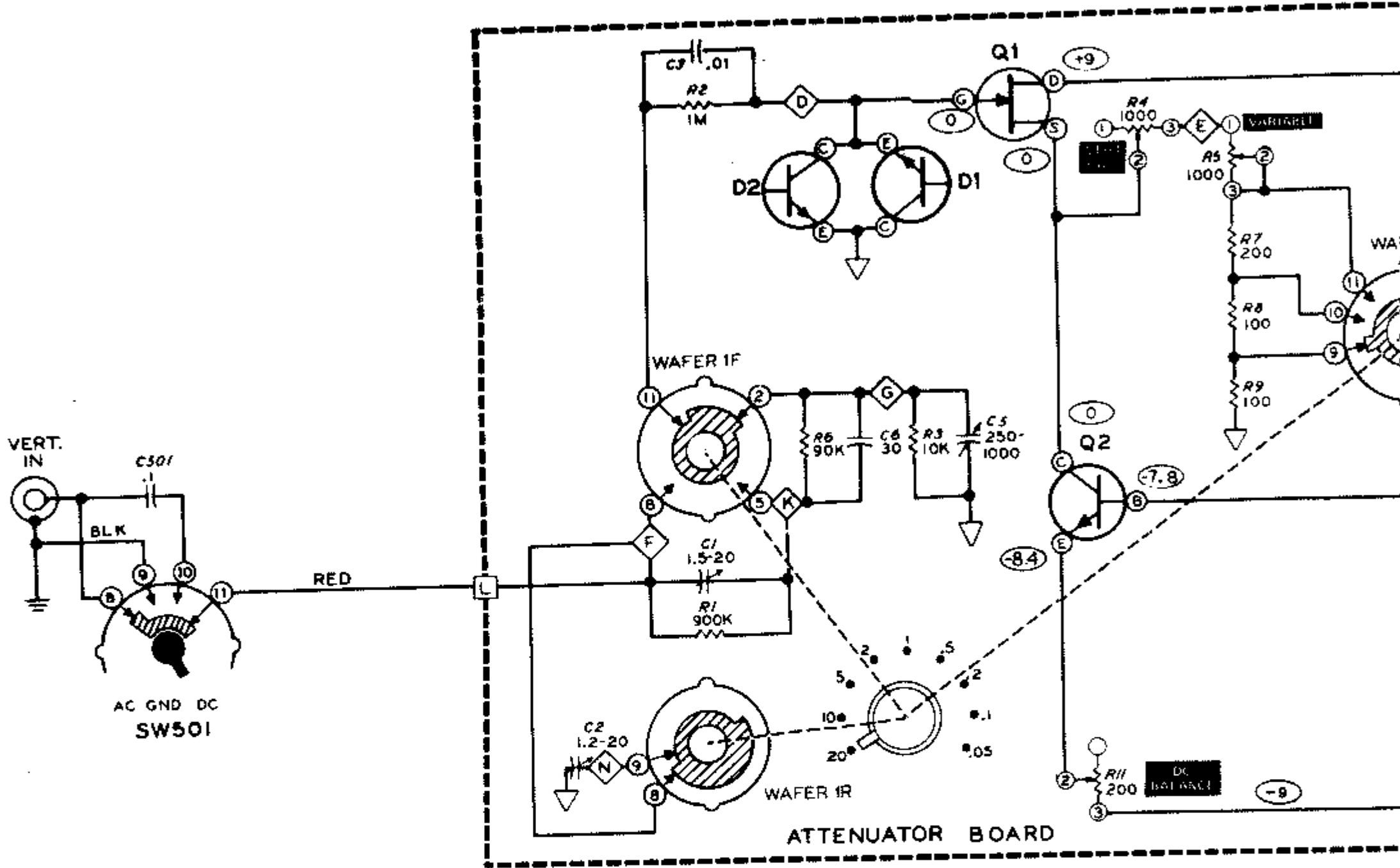
10.  THIS SYMBOL INDICATES CHASSIS GROUND.

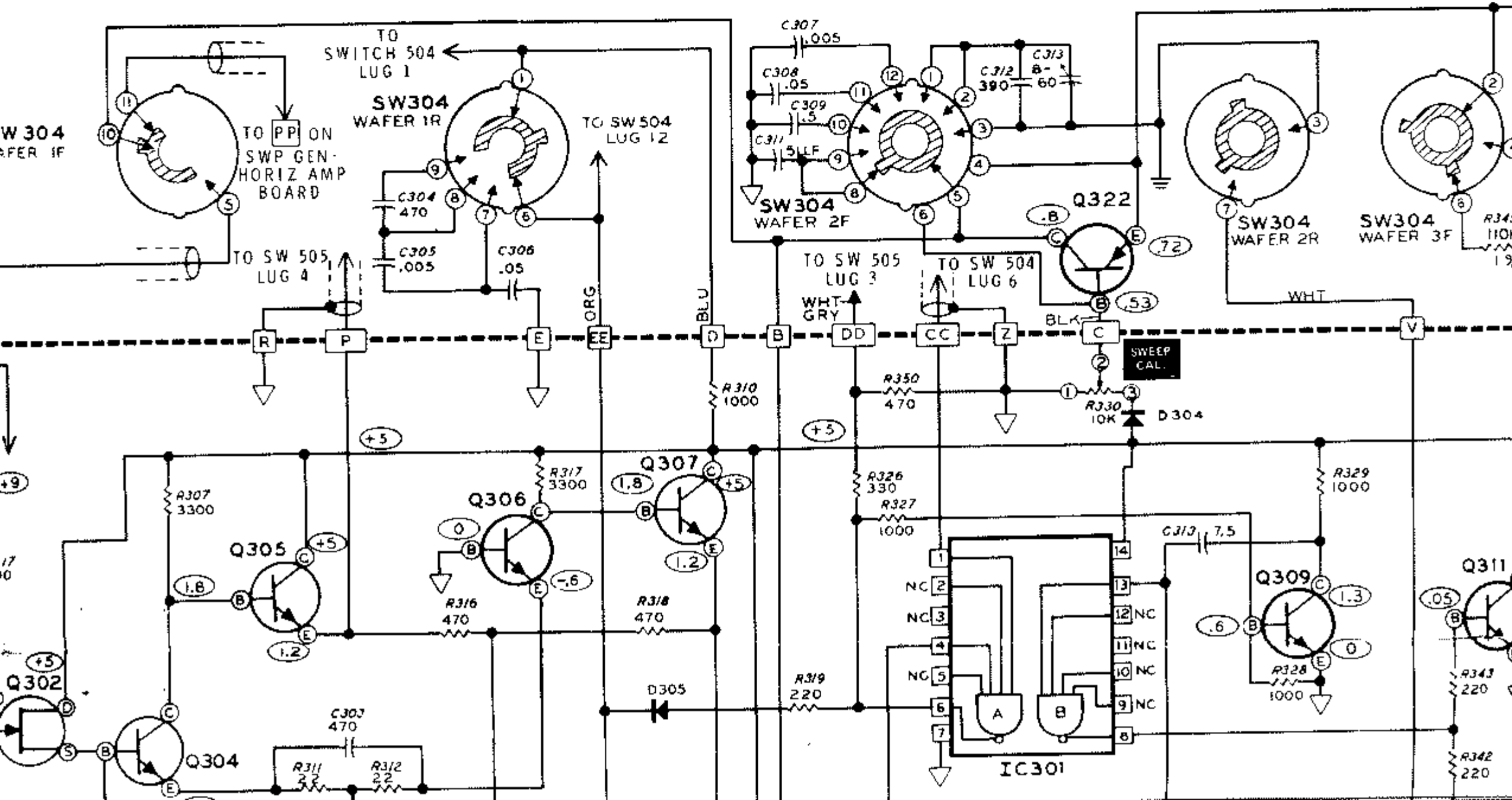
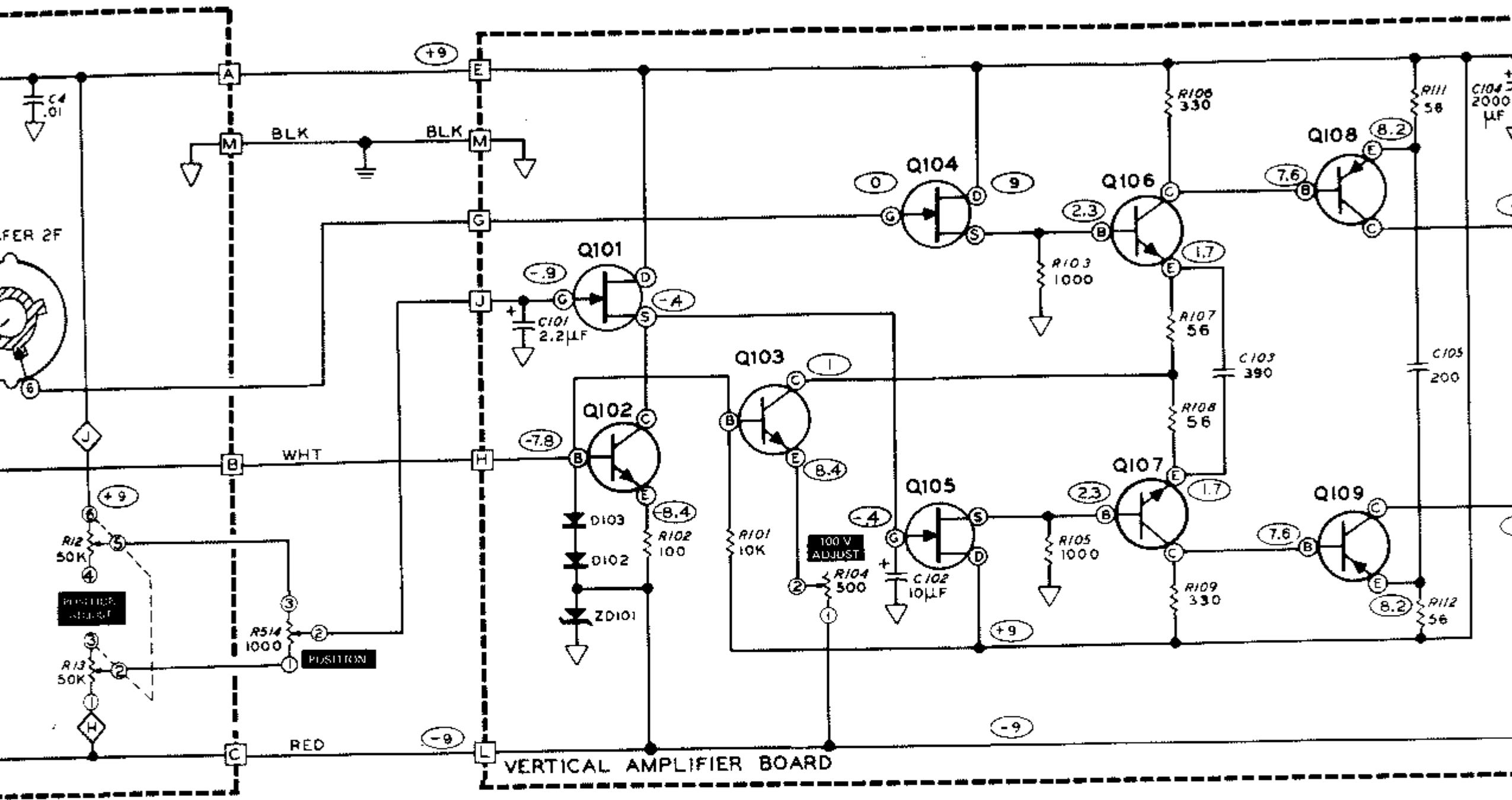
11. ROTARY SWITCHES ARE VIEWED FROM THE SHAFT END OF THE SWITCHES.

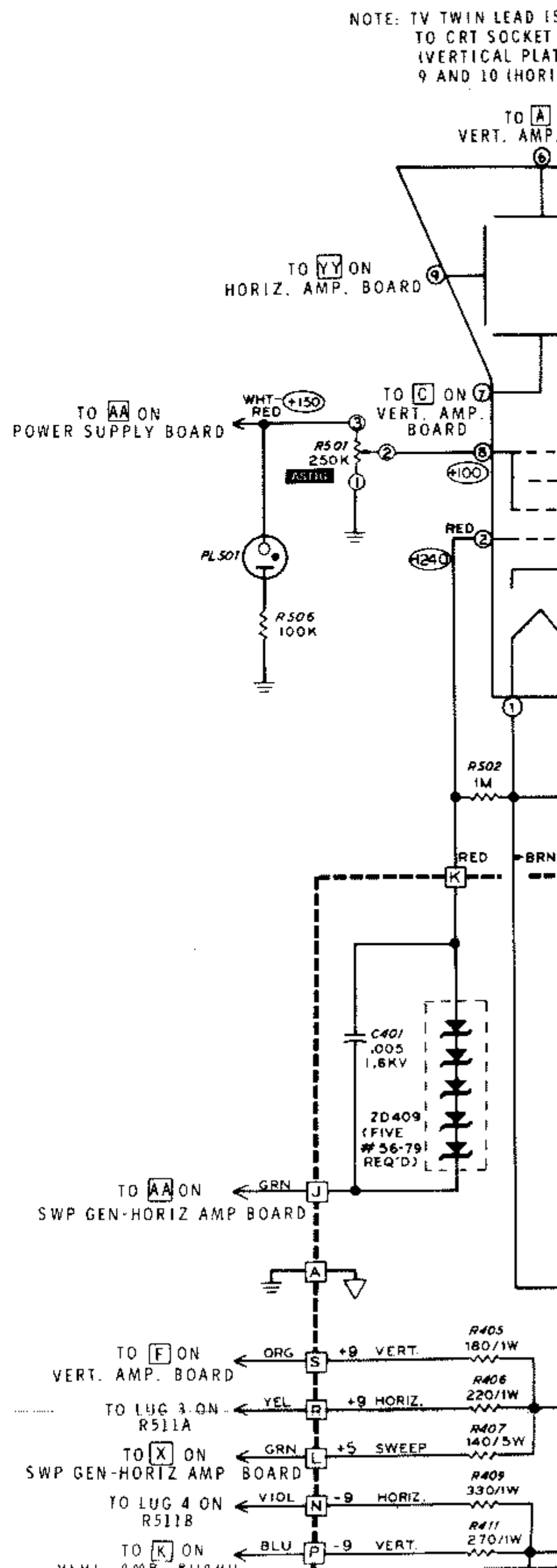
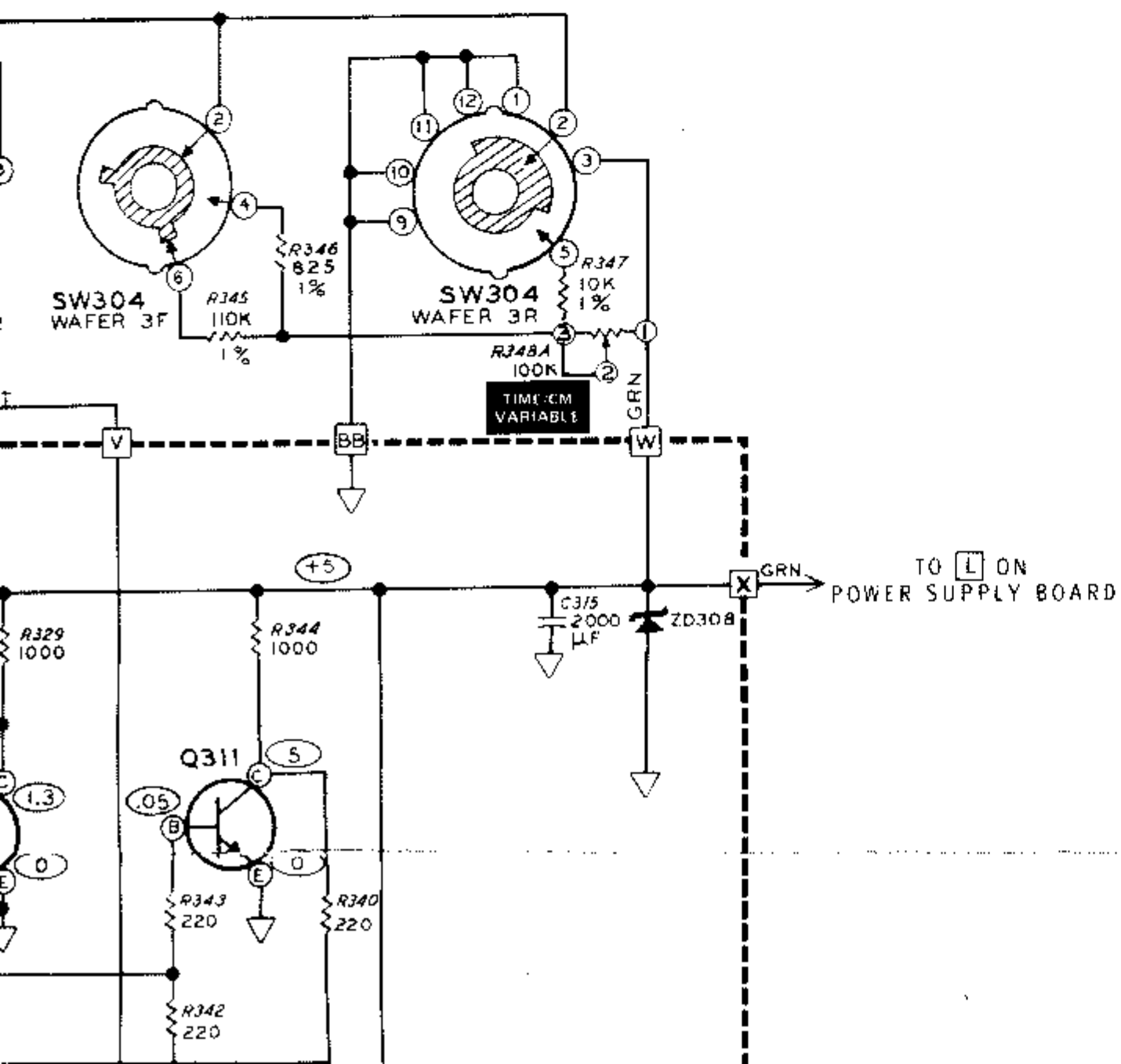
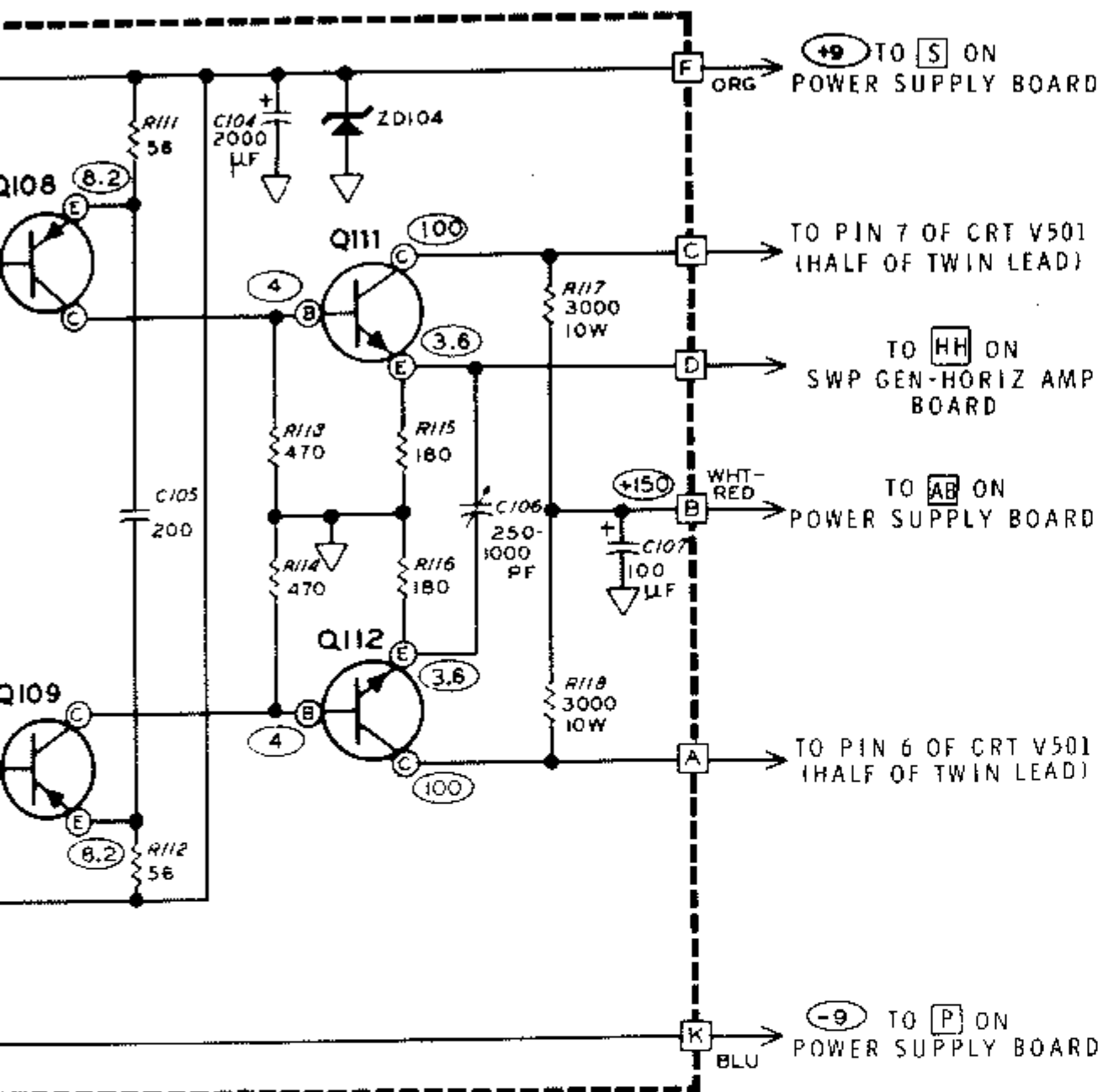
12. LEVER SWITCHES ARE VIEWED FROM THE CONTACT SIDE OF THE SWITCH WAFER.

NOTE: LETTER-NUMBER DESIGNATIONS FOR RESISTORS, CAPACITORS, ETC., HAVE BEEN PLACED IN THE FOLLOWING GROUPS:

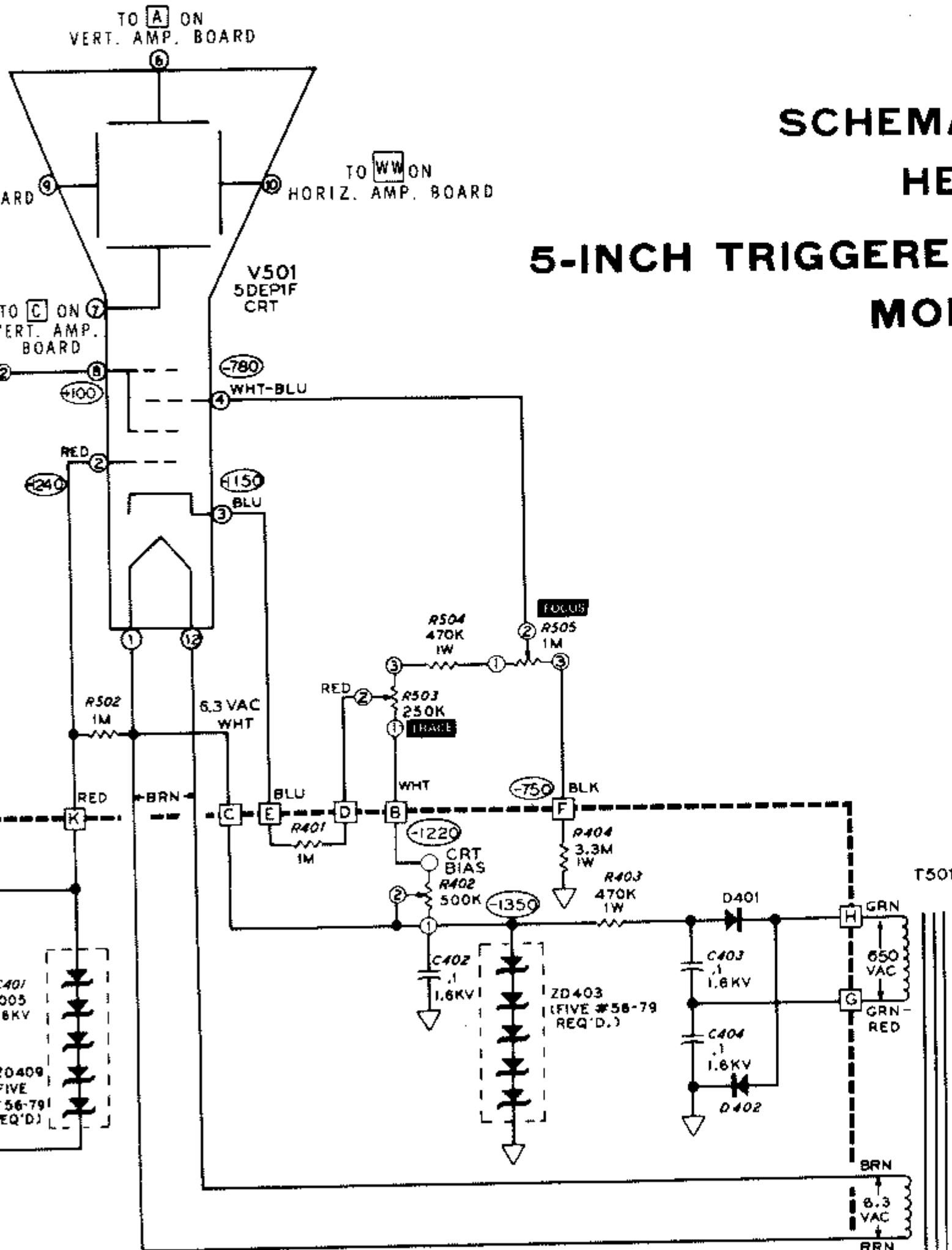
- | | |
|---------|--------------------------------|
| 1-99 | ATTENUATOR BOARD. |
| 101-199 | VERTICAL AMPLIFIER BOARD. |
| 201-299 | HORIZONTAL AMPLIFIER CIRCUITS. |
| 301-399 | SWEEP GENERATOR CIRCUITS. |
| 401-499 | POWER SUPPLY BOARD. |
| 501-599 | CHASSIS MOUNTED PARTS. |







NOTE: TV TWIN LEAD IS USED TO CONNECT TO CRT SOCKET LUGS 6 AND 7 (VERTICAL PLATES), AND TO LUGS 9 AND 10 (HORIZONTAL PLATES).



SCHEMATIC OF THE HEATHKIT®

5-INCH TRIGGERED SWEEP OSCILLOSCOPE MODEL IO-103

