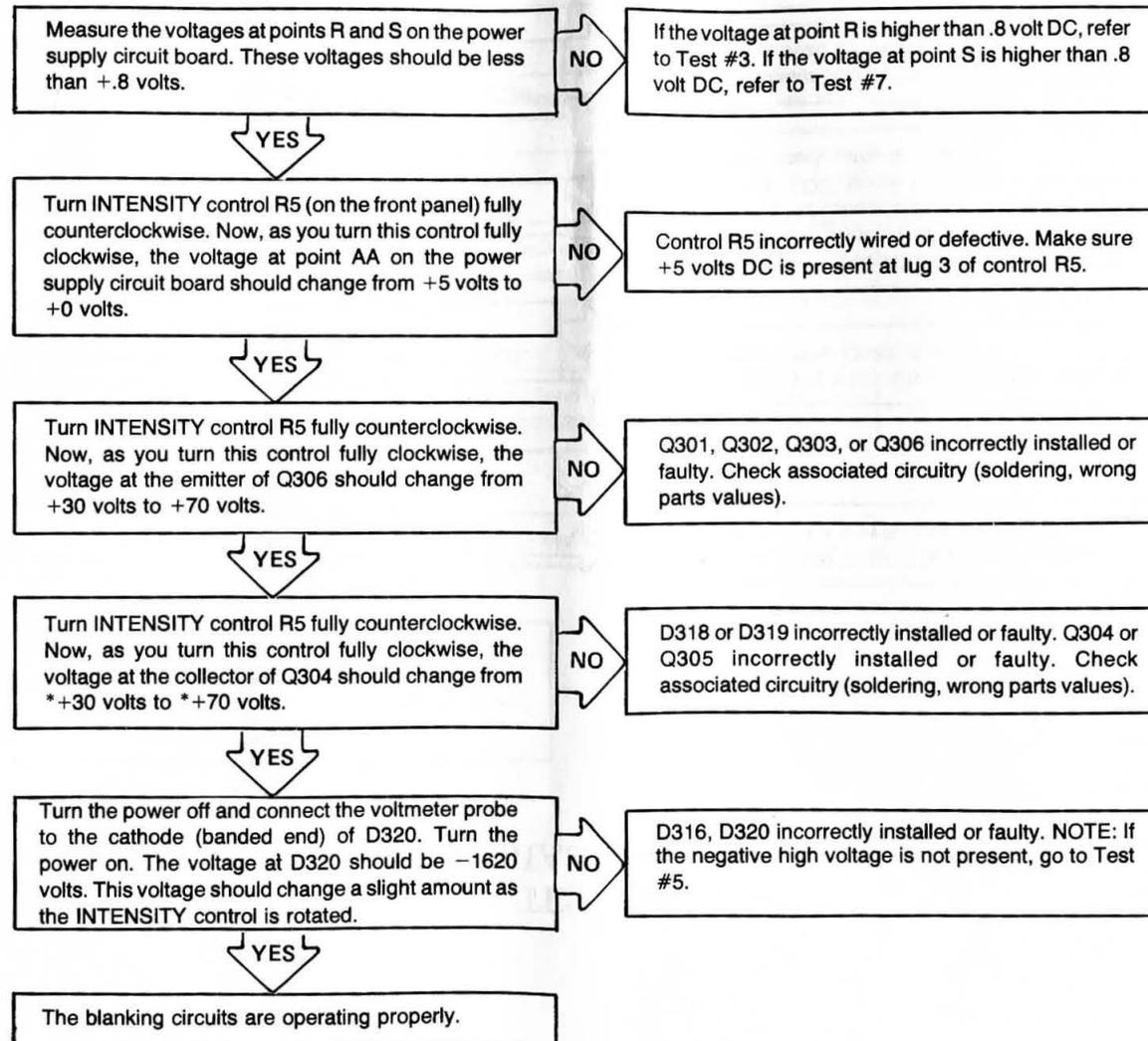


## TEST #4 BLANKING CIRCUIT

**WARNING:** You will be making voltage measurements in the high voltage area of the Oscilloscope. Be very careful not to contact this high voltage. See Page 26 of this Booklet.



\*These voltage readings depend on the setting of the INTENSITY BIAS control and can vary 40 volts.

# TEST #5

## CRT BIAS CIRCUITS

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### CAUTION

When you make any of the following tests, first turn the Oscilloscope off. Then connect the voltmeter to the circuit and turn the Oscilloscope back on again.

Check the voltage at the junction of C301 and R301. It should read  $-2000$  VDC.

NO

Check D301, D302, C301, C302, and T1. Check the voltage between A and B. It should be 360 VAC.

YES

Check the voltage at the junction of C303 and R301. It should read  $-1650$  VDC.

NO

Check C303 and R301. Check for open or shorted foils. Check D316, D320, and D314.

YES

Check the voltage at AE. It should read  $-1350$  VDC.

NO

If it is lower than  $-1350$  VDC, check D317 and C320. Also check divider string R17, R6, R309, and R310 for open and bad connections. If the voltage is higher than  $-1350$  VDC, check for shorts in the divider string, and check wires and foils.

YES

Check the voltage at point W. It should read  $-1568$  VDC.

NO

Check for solder bridges and incorrect wiring to the CRT socket. Also check C320.

YES

Check the voltage at point Y. It should read  $+95$  VDC. (Adjust it if necessary.)

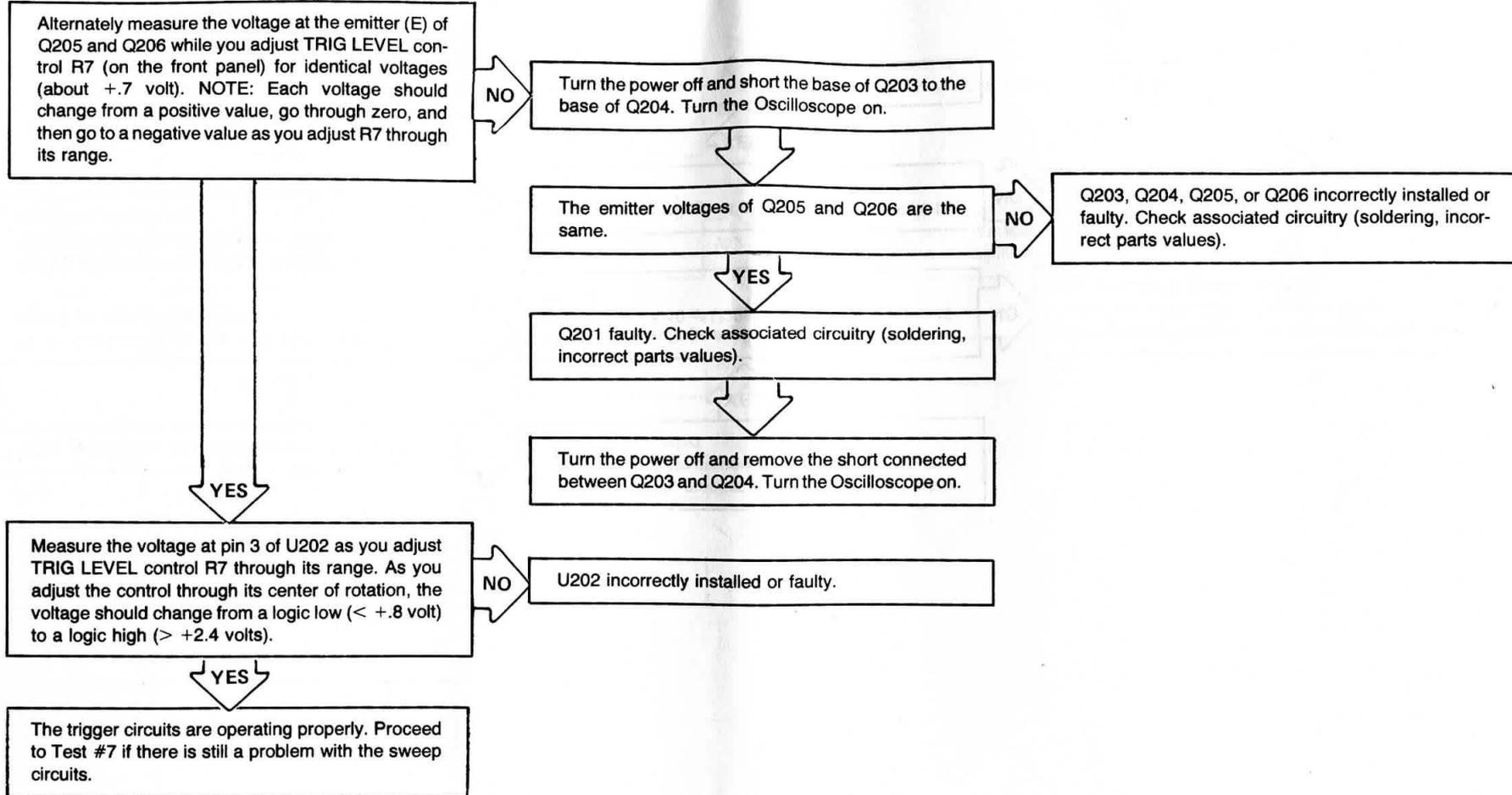
NO

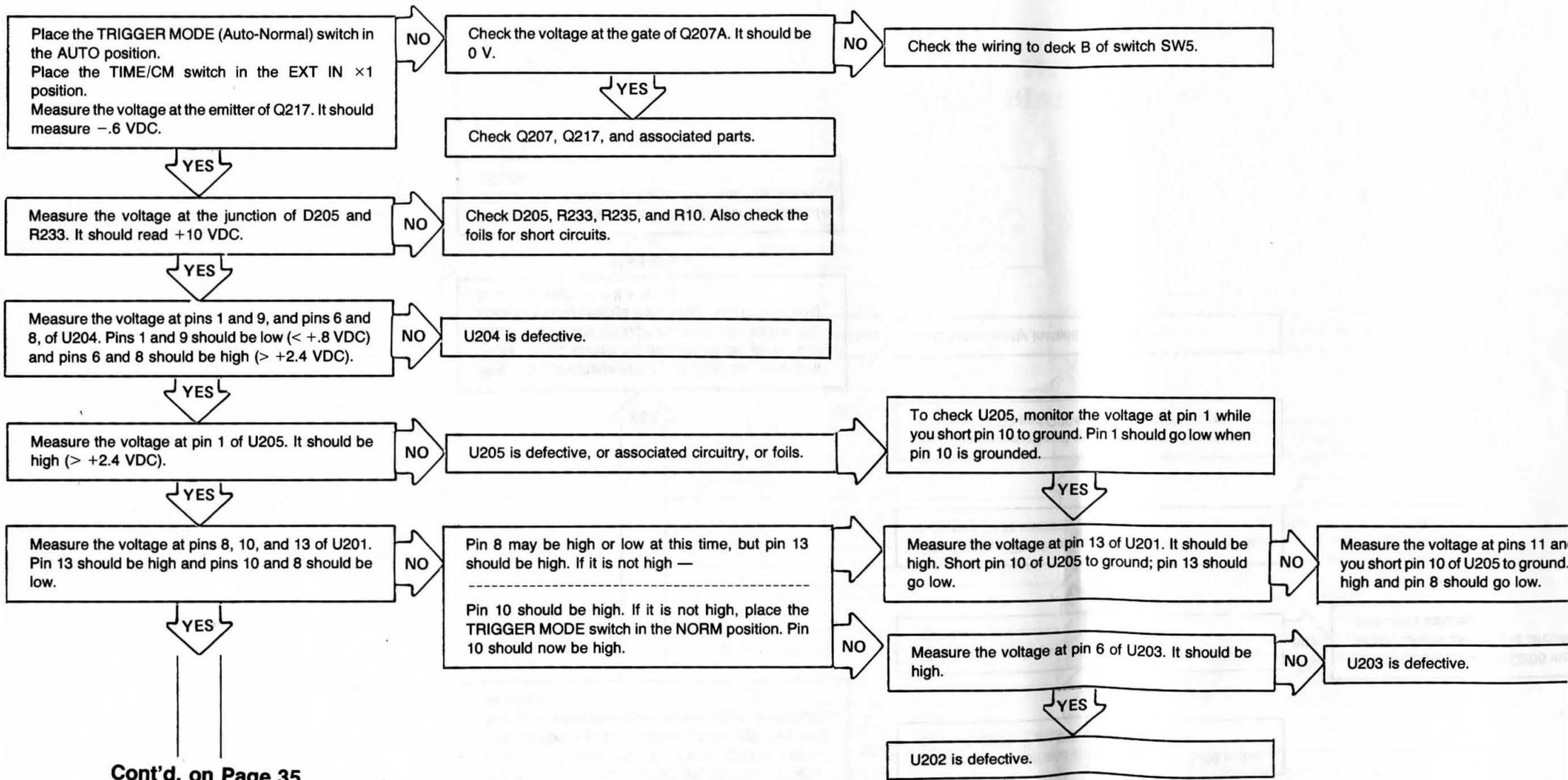
Check Q307 and associated circuitry.

YES

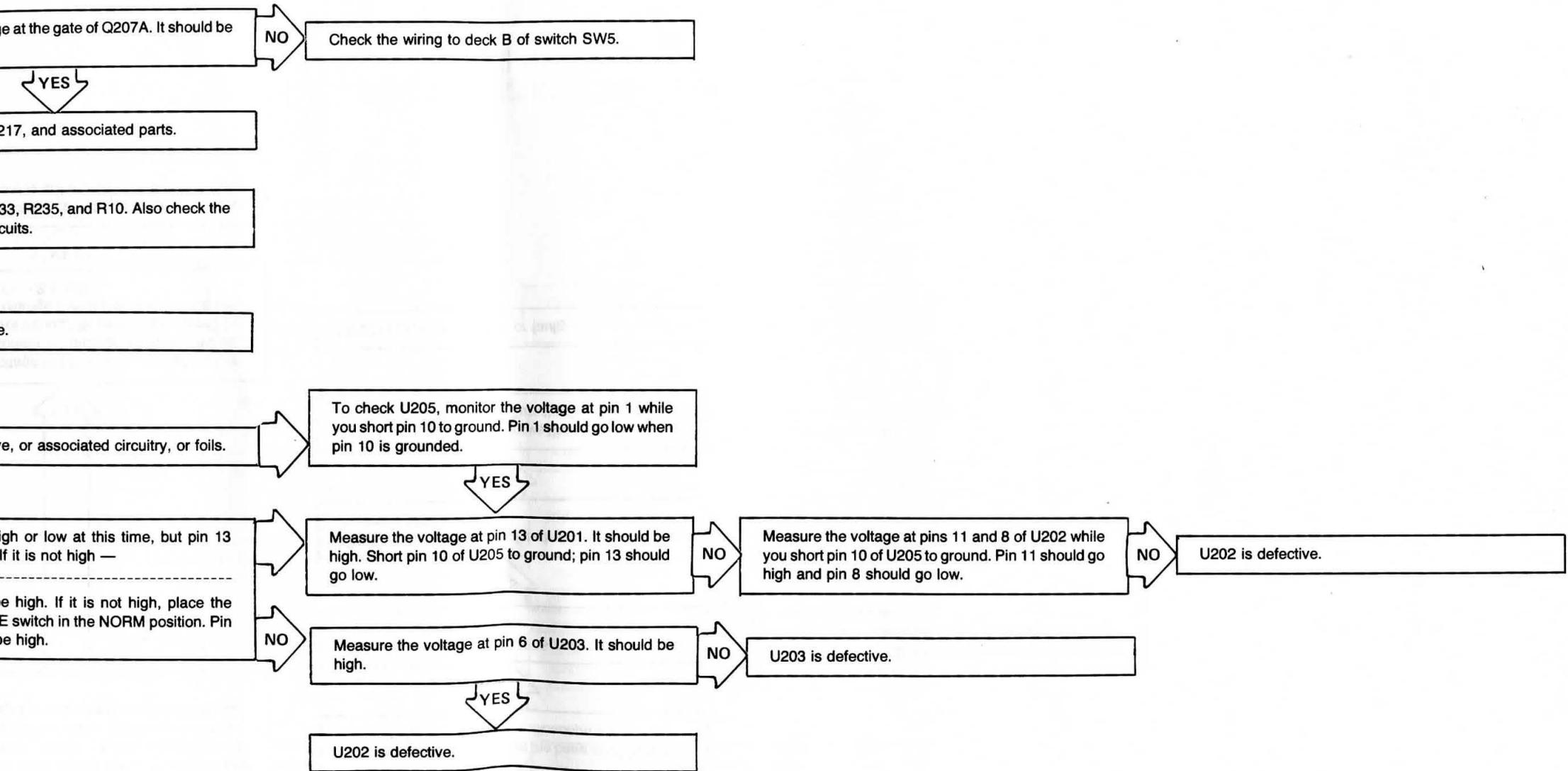
CRT bias circuits are all operating properly.

# TEST #6 TRIGGER CIRCUITS





# TEST #7 SWEEP CIRCUITS

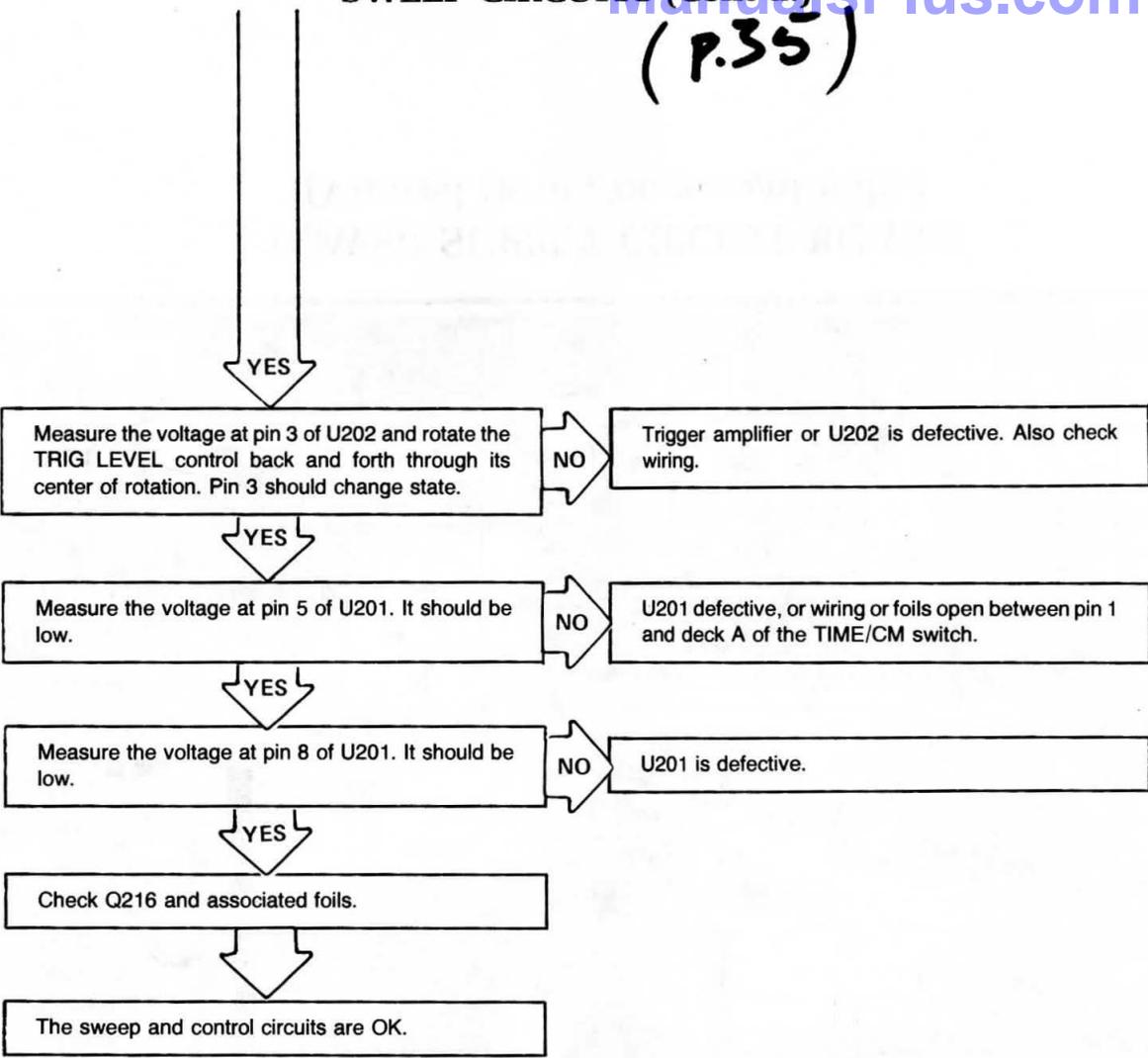


# TEST #7

## SWEEP CIRCUITS (Cont'd.)

(P.35)

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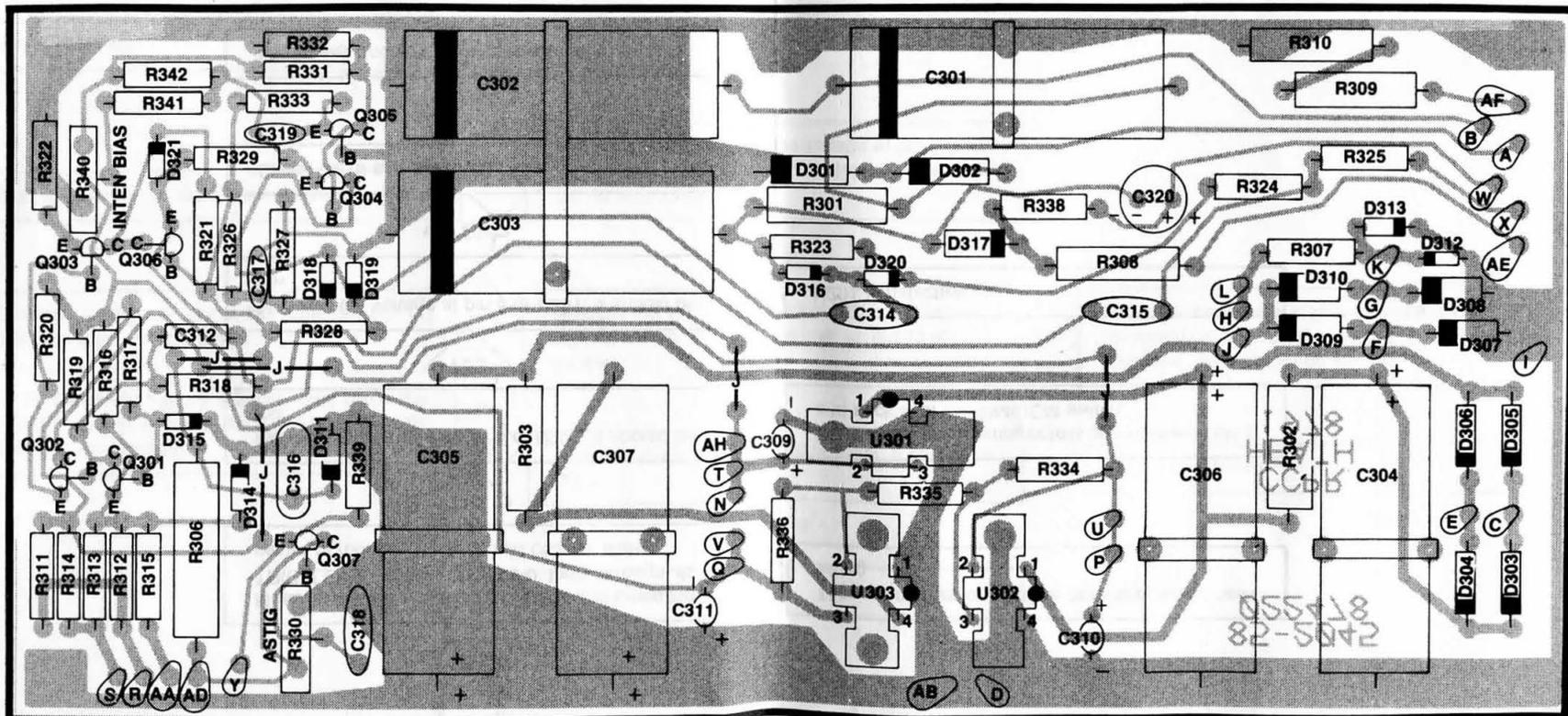


# CIRCUIT BOARD X-RAY VIEWS

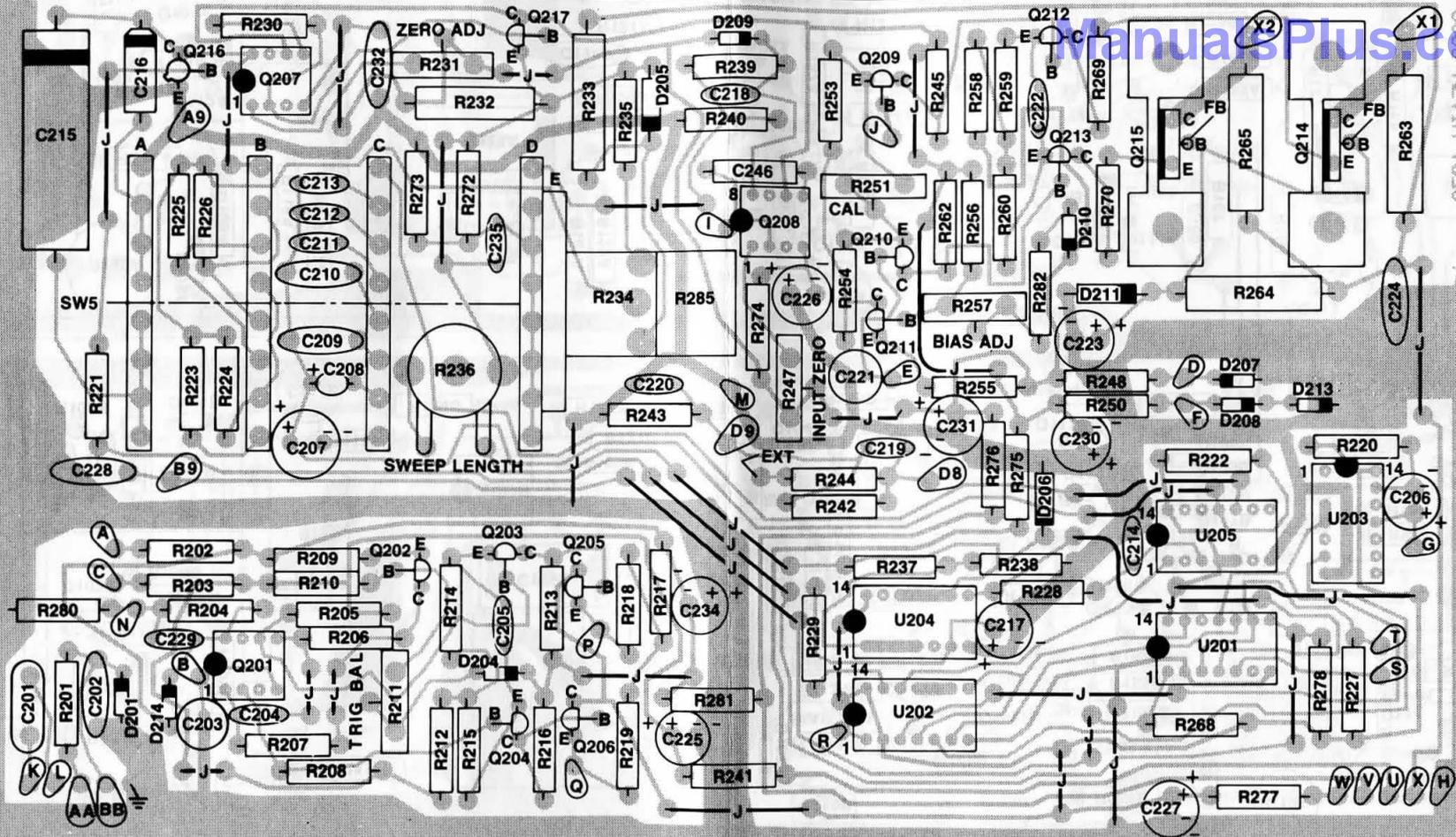
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NOTE: To find the PART NUMBER of a component for the purpose of ordering a replacement part:

- Find the circuit component number (R5, C3, etc.) on the "X-Ray View."
- Locate this same number in the "Circuit Component Number" column of the "Parts List."
- Adjacent to the circuit component number, you will find the PART NUMBER and DESCRIPTION which must be supplied when you order a replacement part.

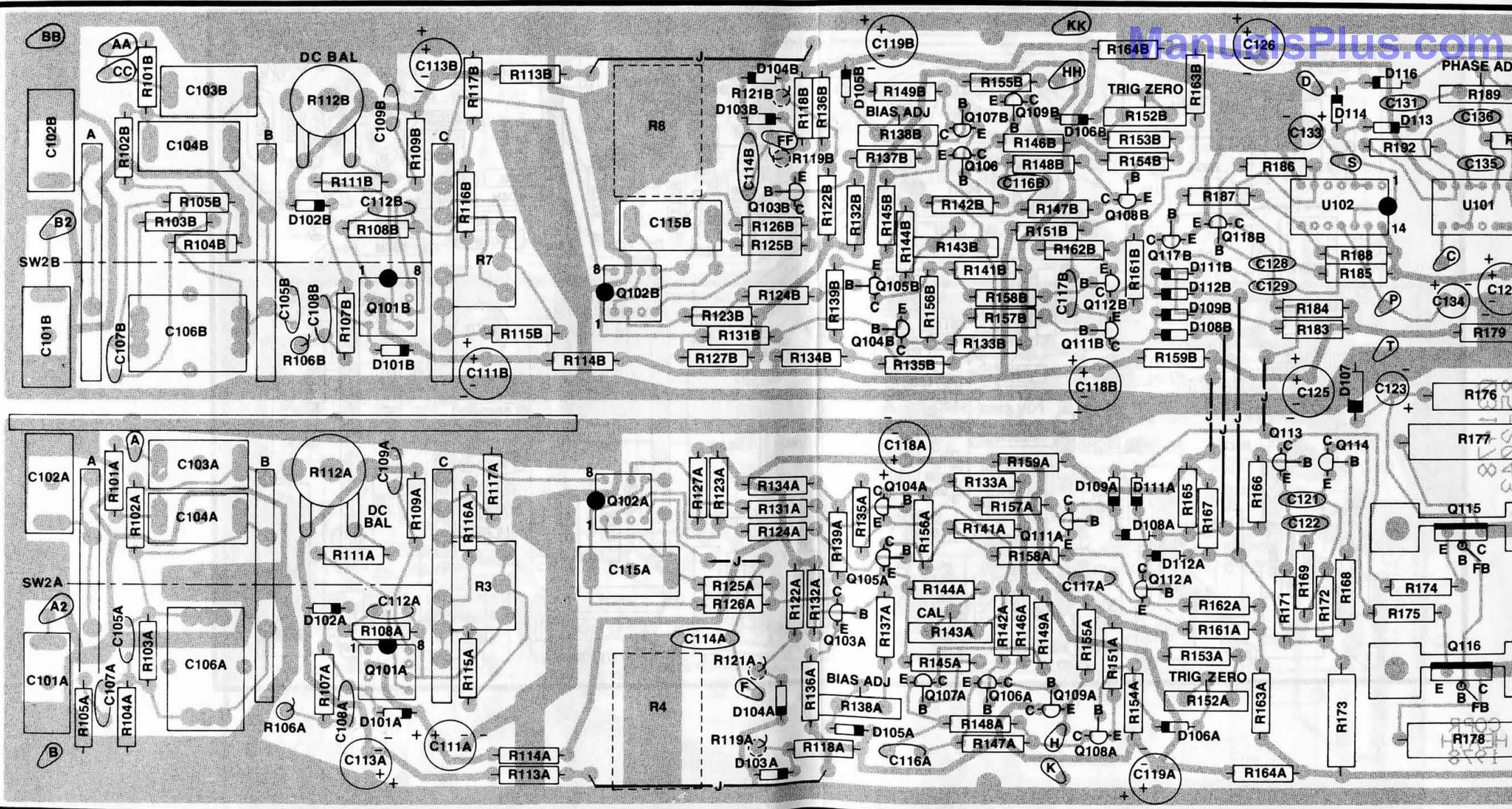


**POWER SUPPLY CIRCUIT BOARD**  
(Viewed from Component side.)

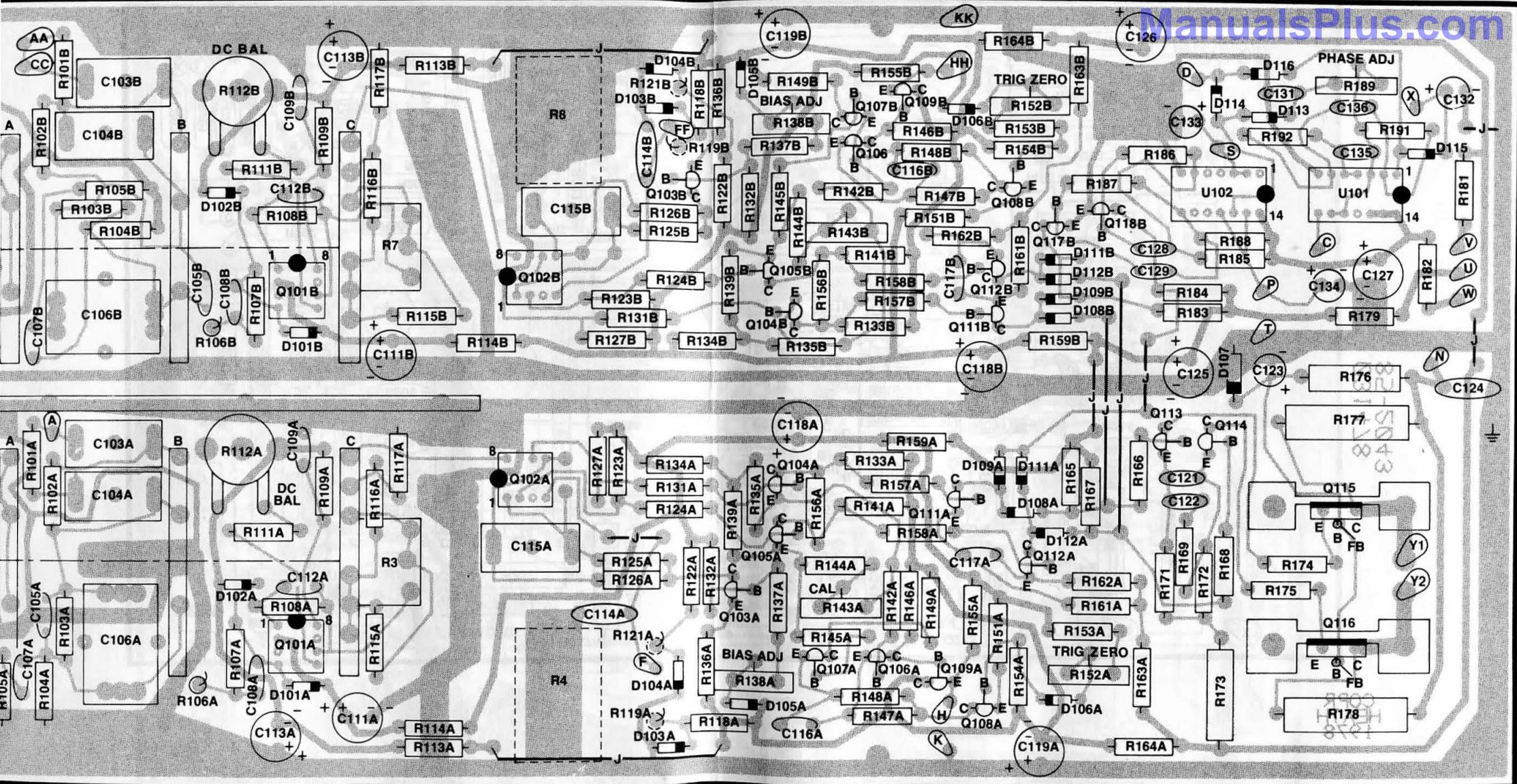


**HORIZONTAL CIRCUIT BOARD**  
 (Viewed from component side.)

88  
 4400  
 88  
 HEATH 1978



VERTICAL CIRCUIT BOARD



**VERTICAL CIRCUIT BOARD**  
(Viewed from component side.)