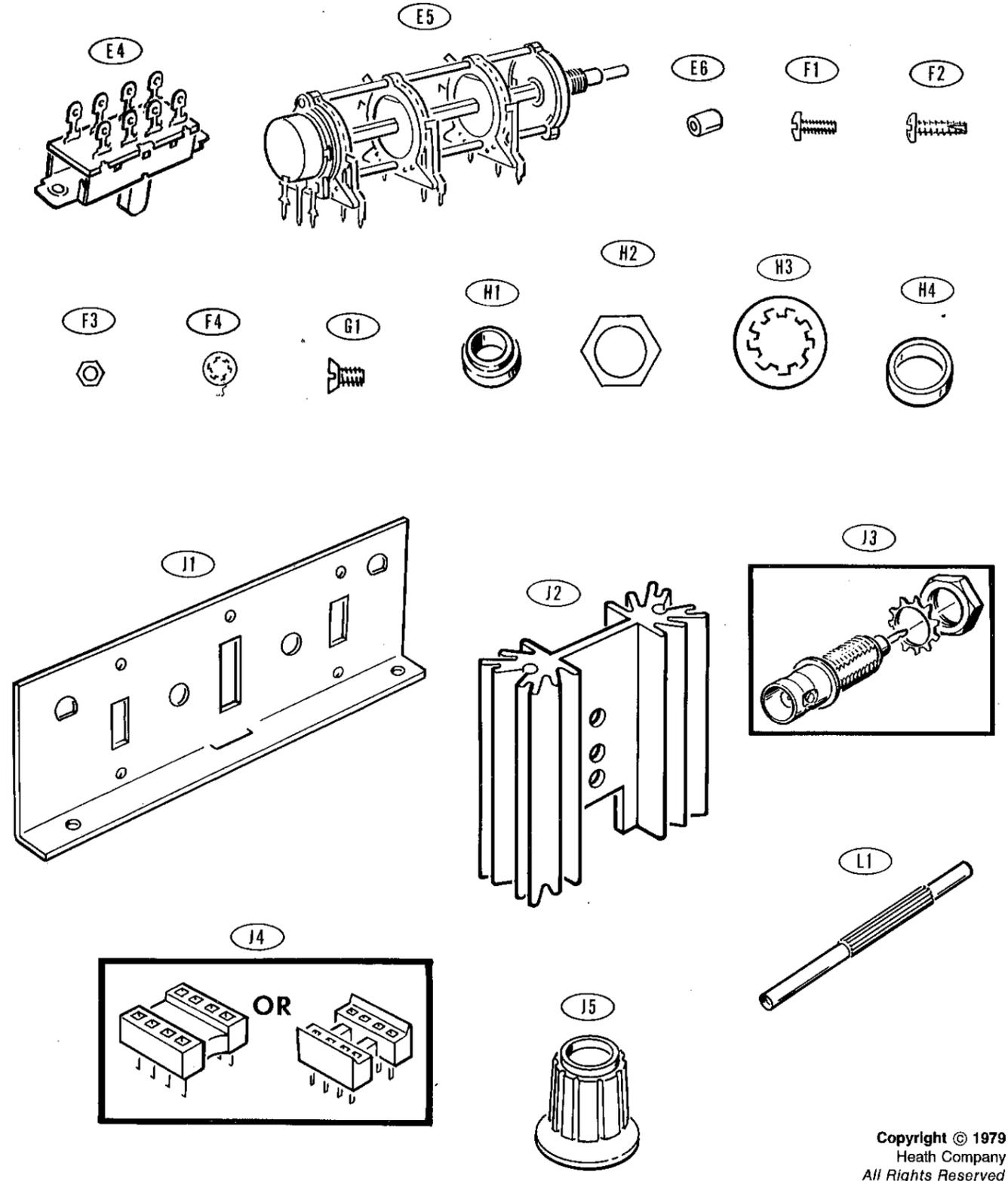
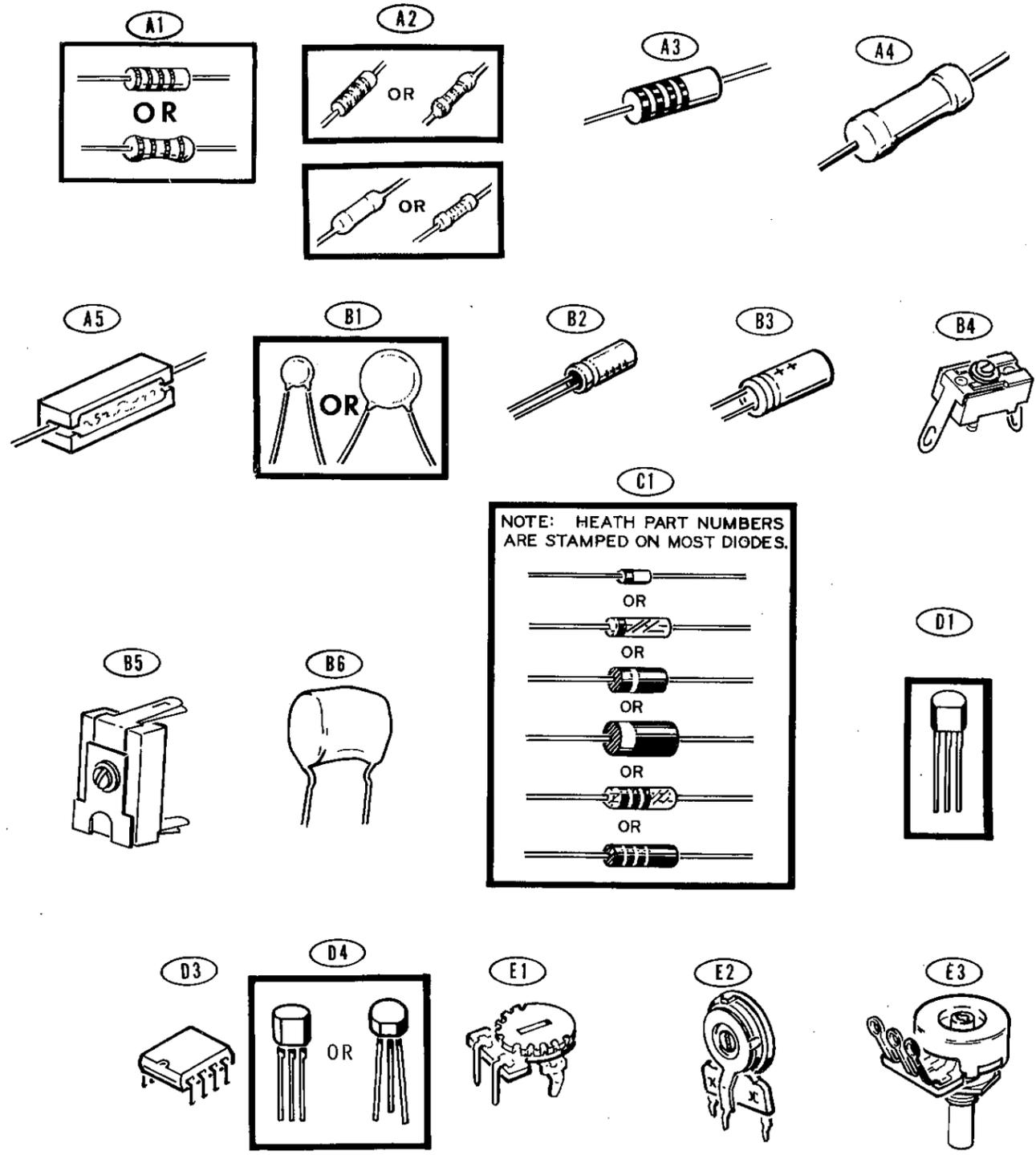


ILLUSTRATION BOOKLET

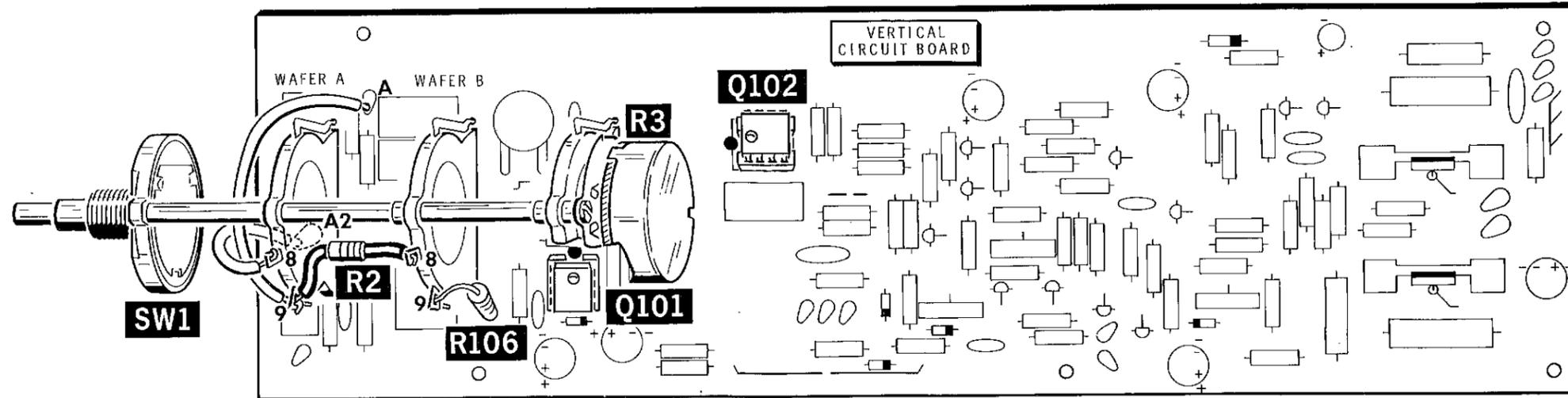
VERTICAL CIRCUIT BOARD PARTS PICTORIAL

Part of 595-2074-03

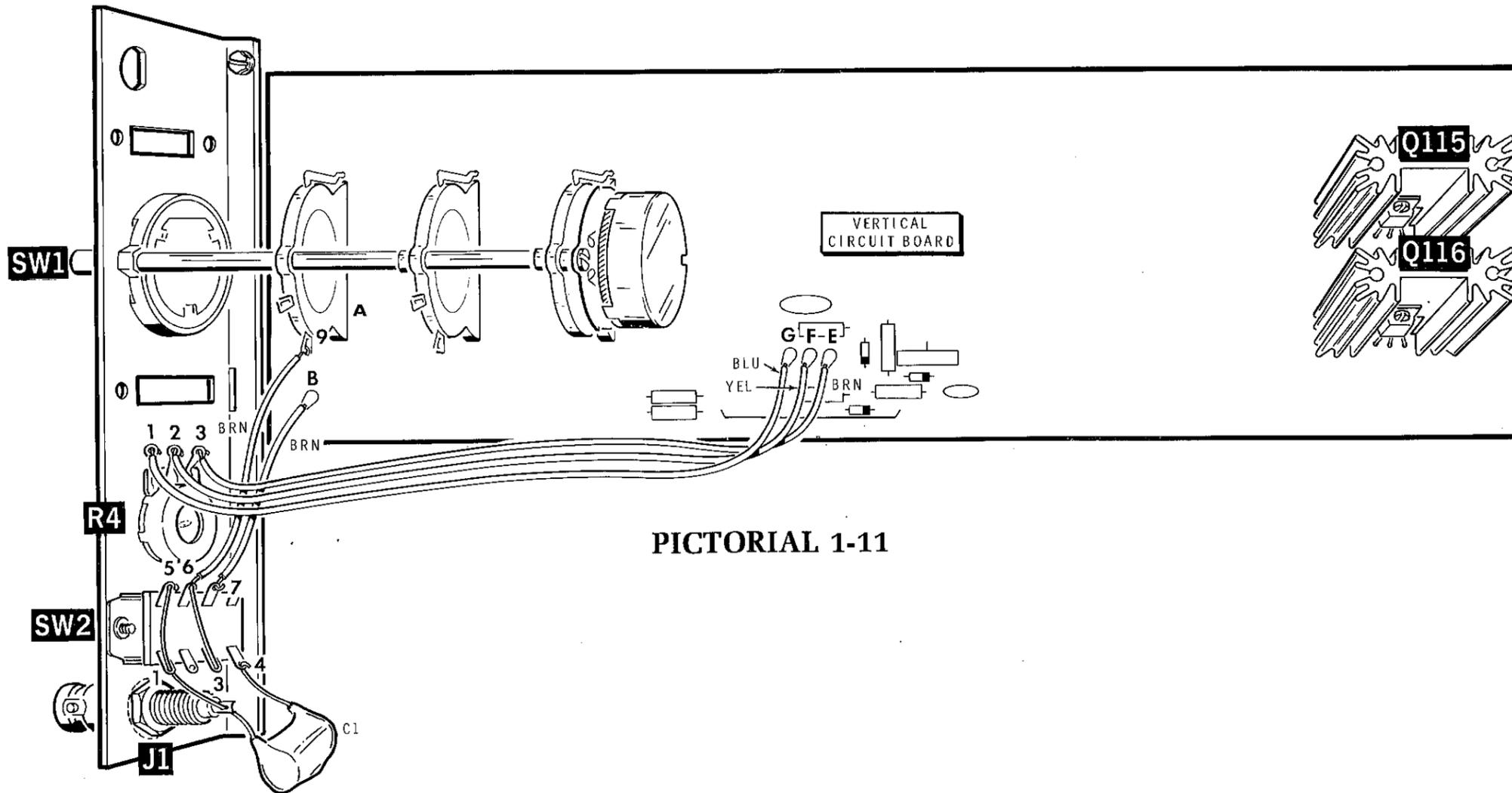


Model IO-4105

Copyright © 1979
 Heath Company
 All Rights Reserved
 Printed in the United States of America

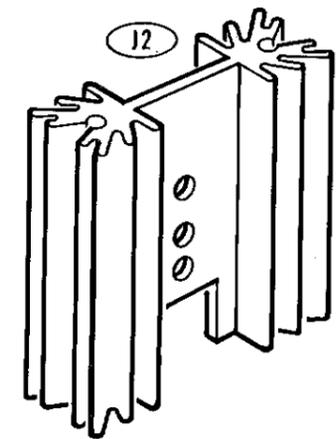
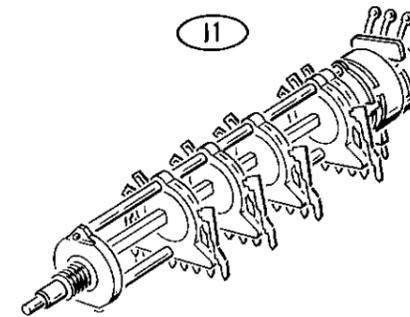
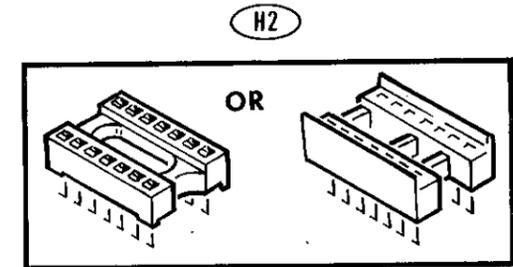
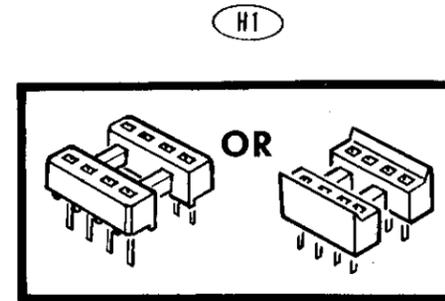
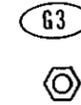
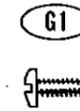
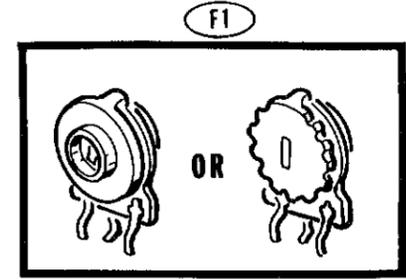
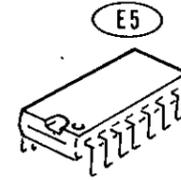
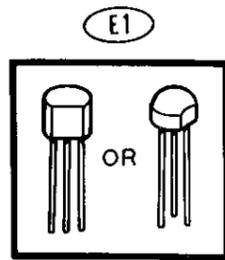
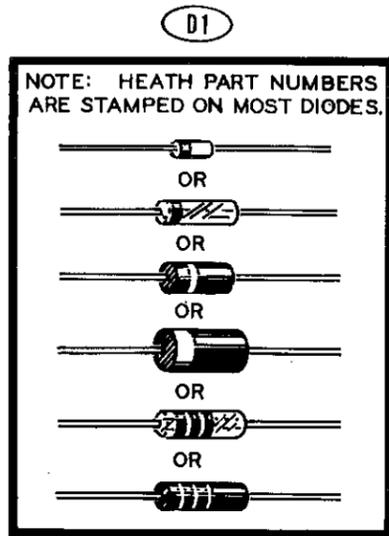
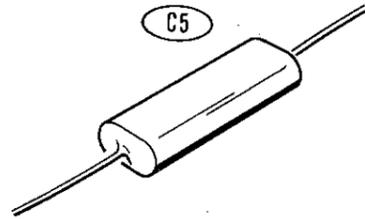
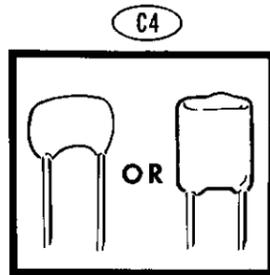
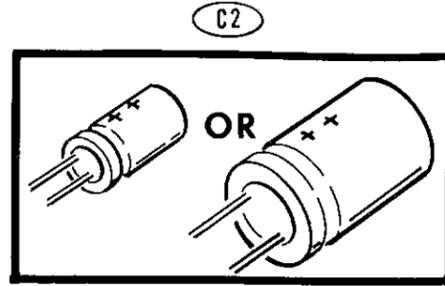
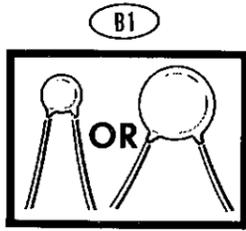
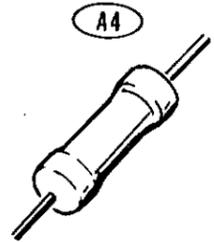
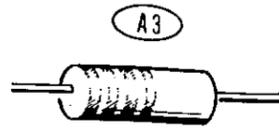
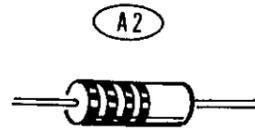
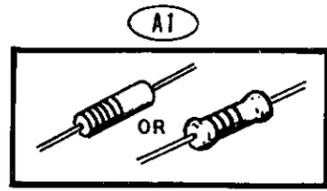


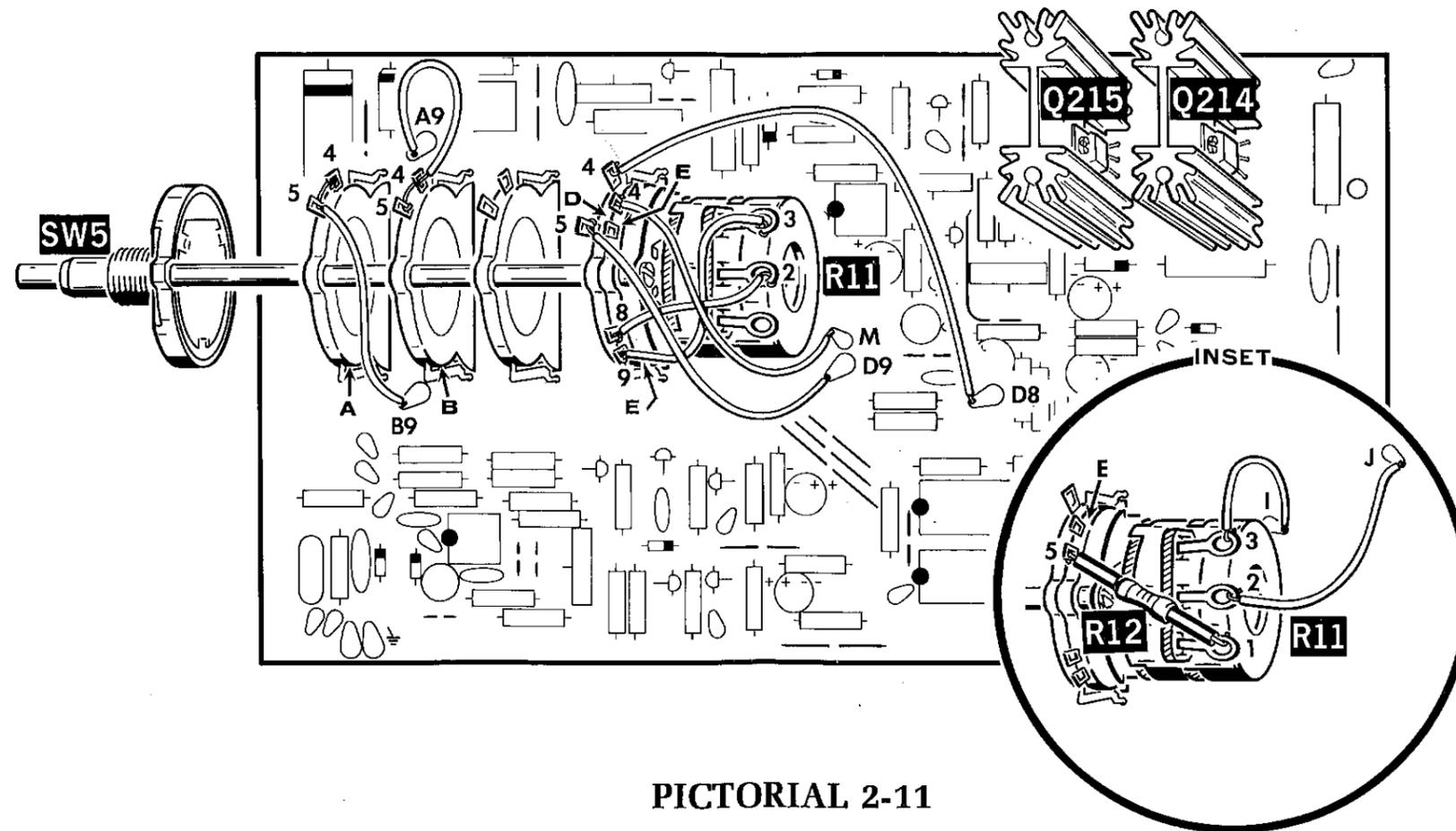
PICTORIAL 1-9



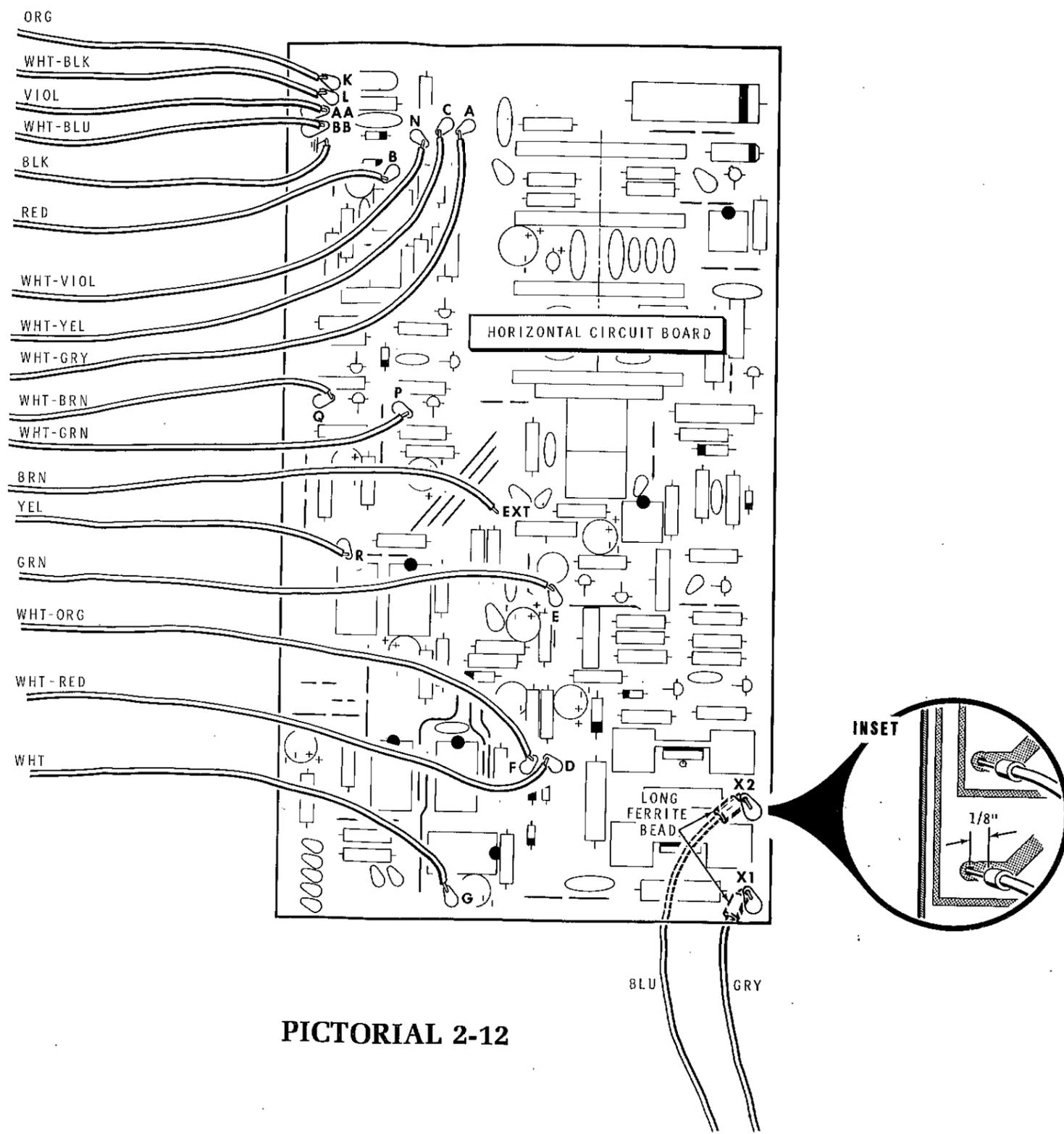
PICTORIAL 1-11

HORIZONTAL CIRCUIT BOARD PARTS PICTORIAL



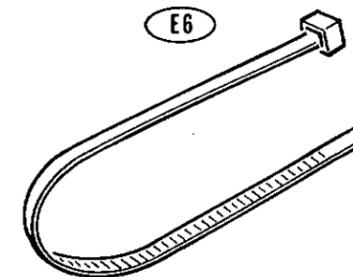
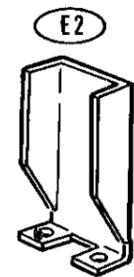
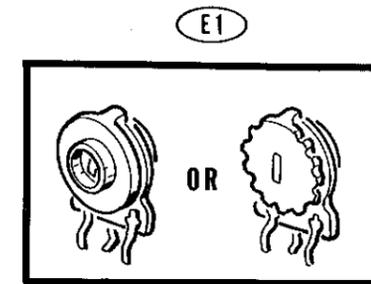
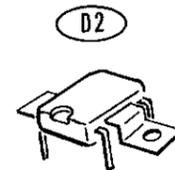
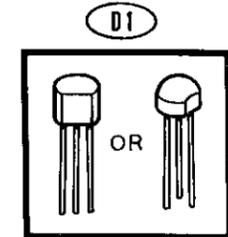
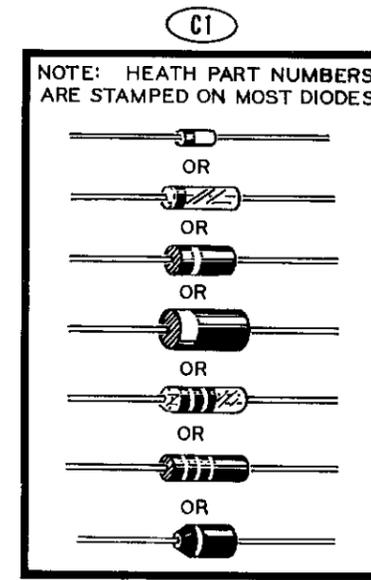
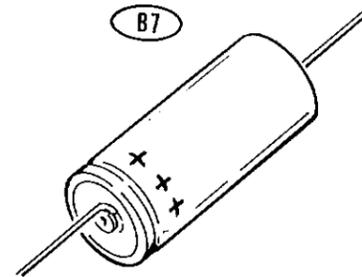
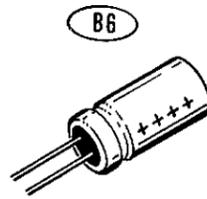
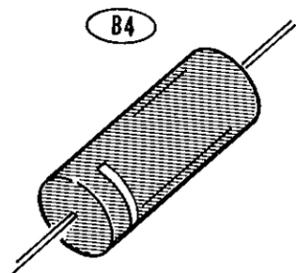
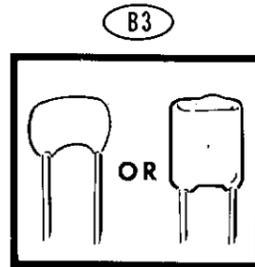
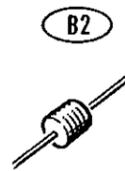
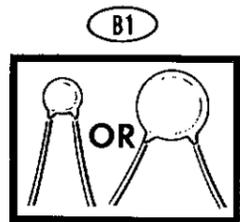
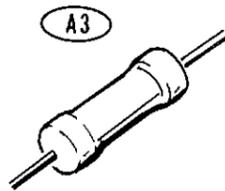
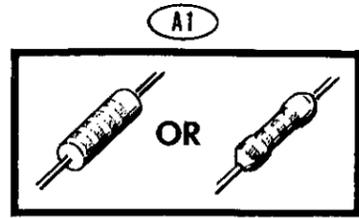


PICTORIAL 2-11

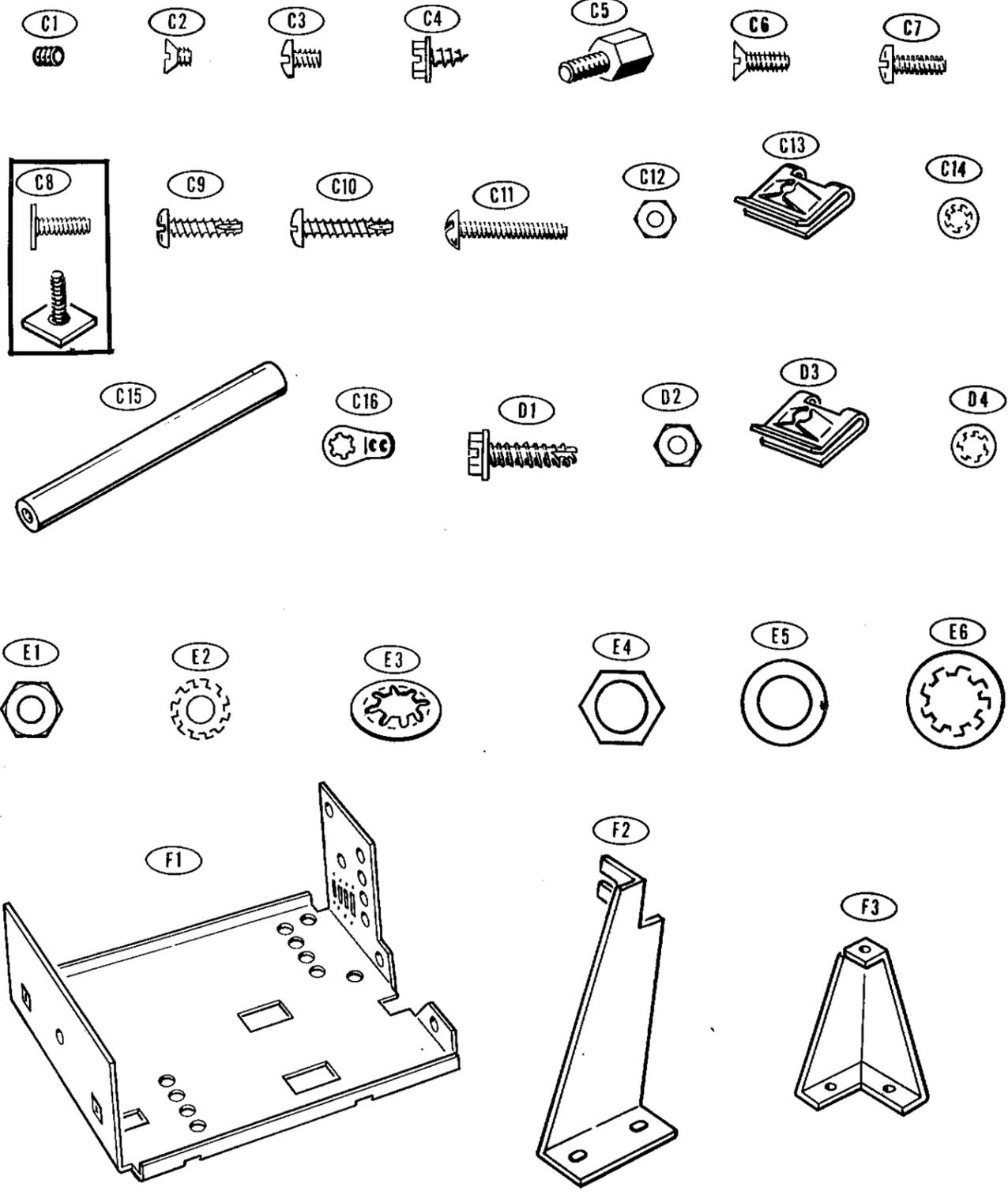
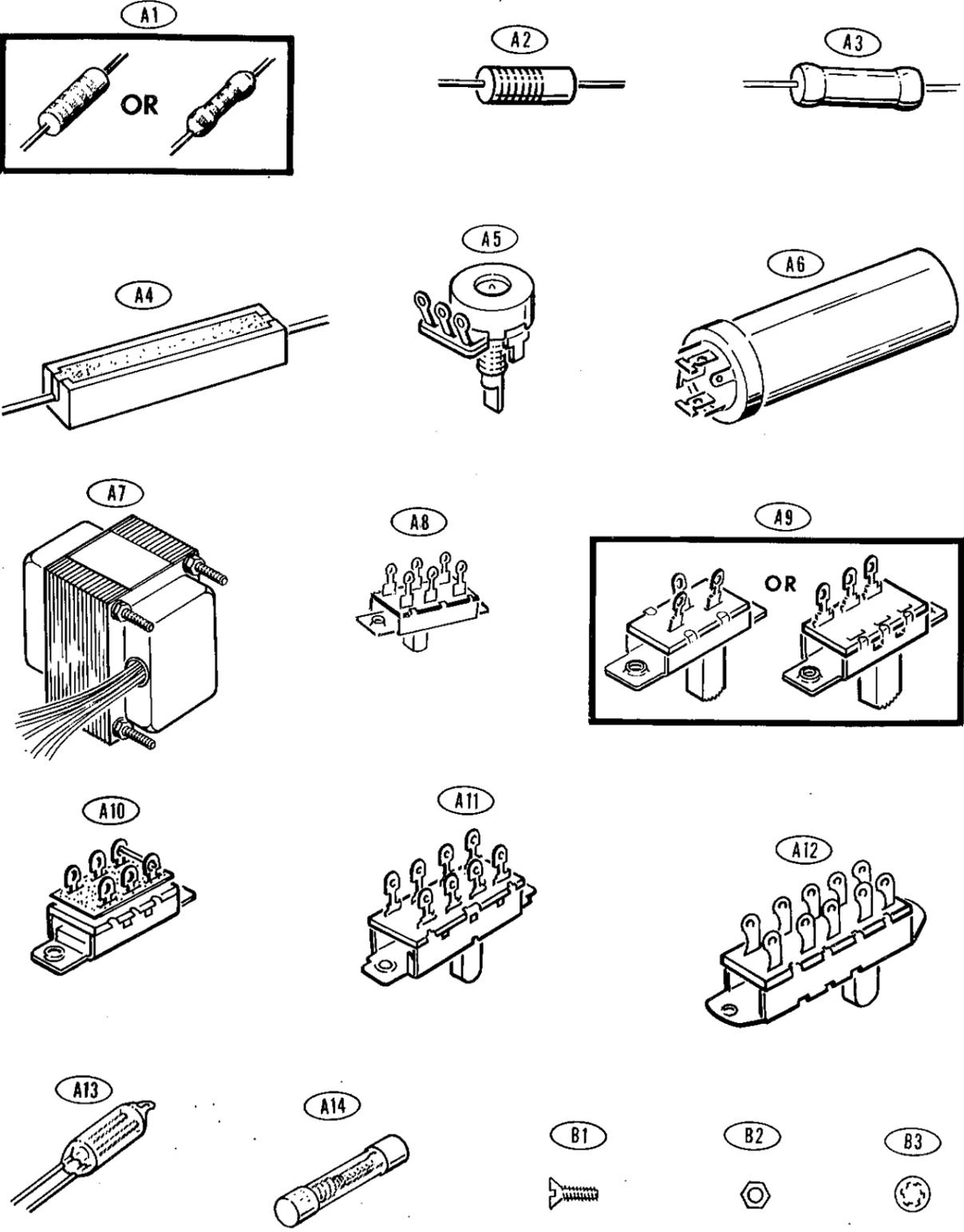


PICTORIAL 2-12

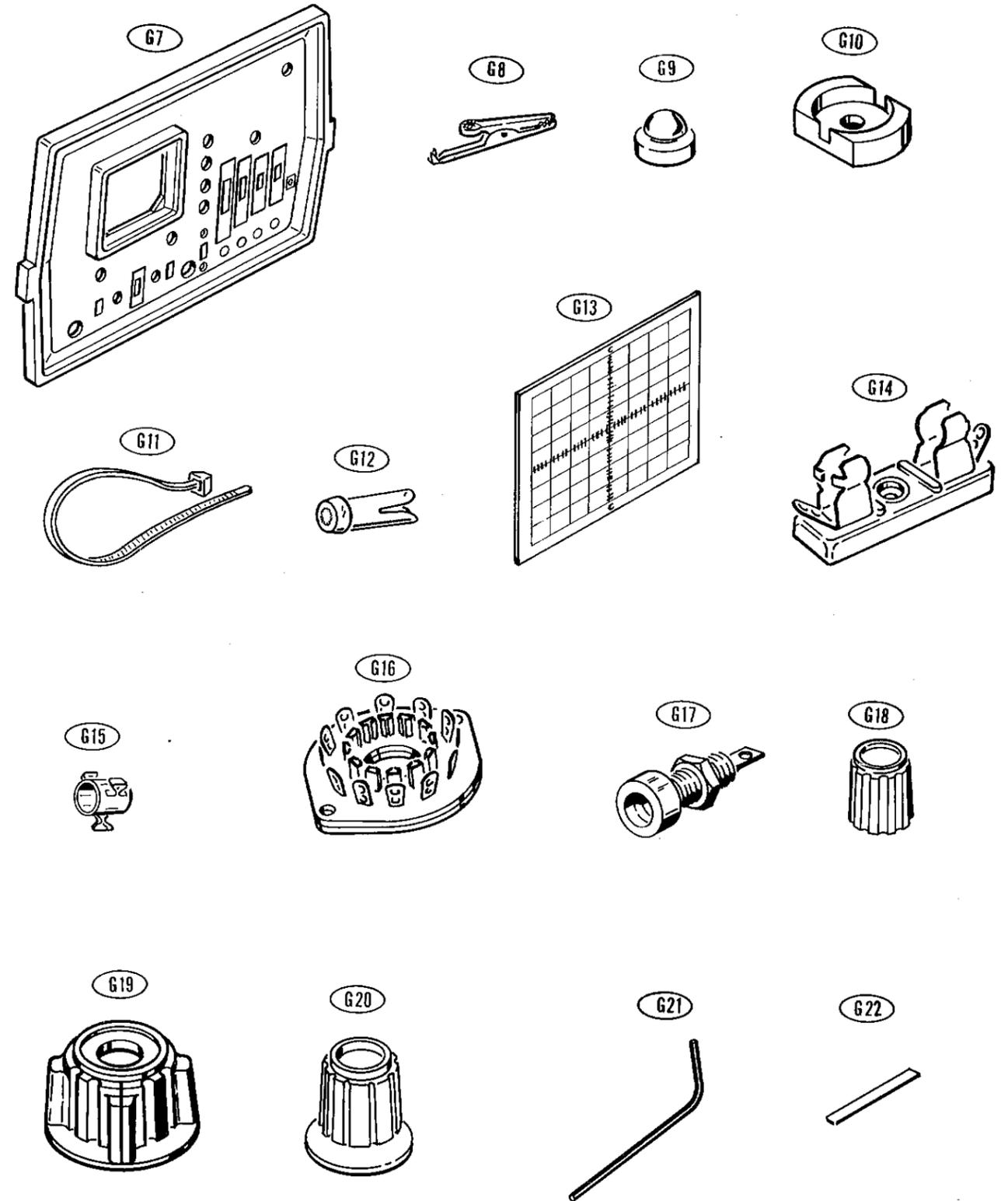
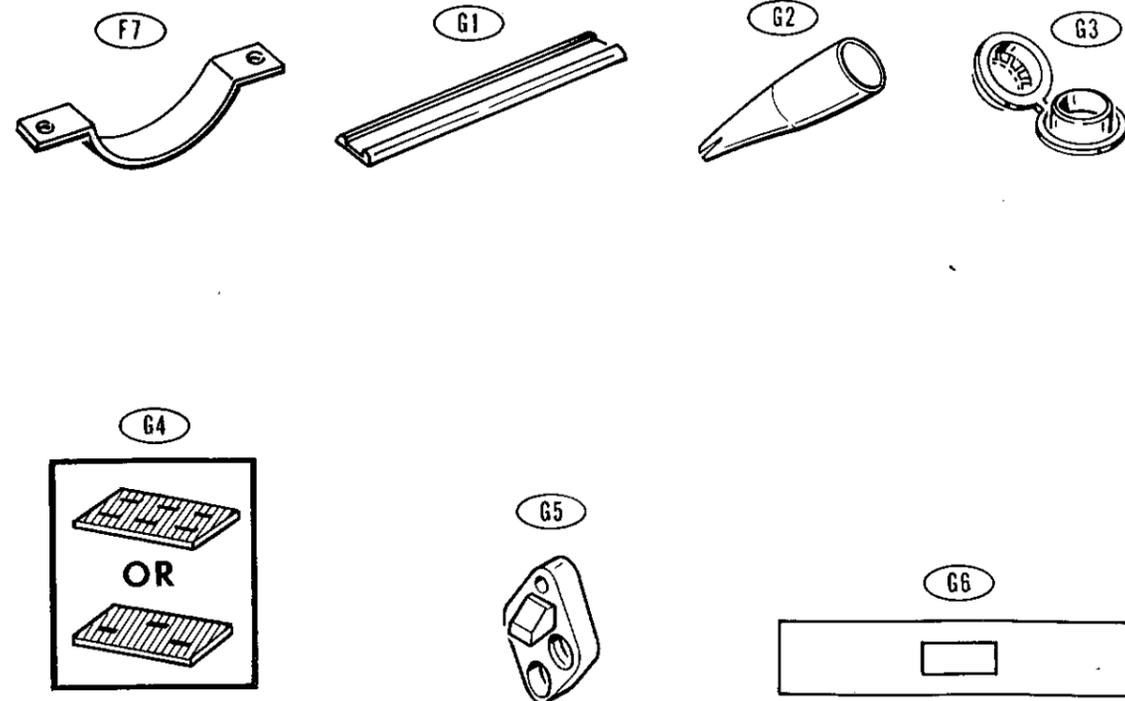
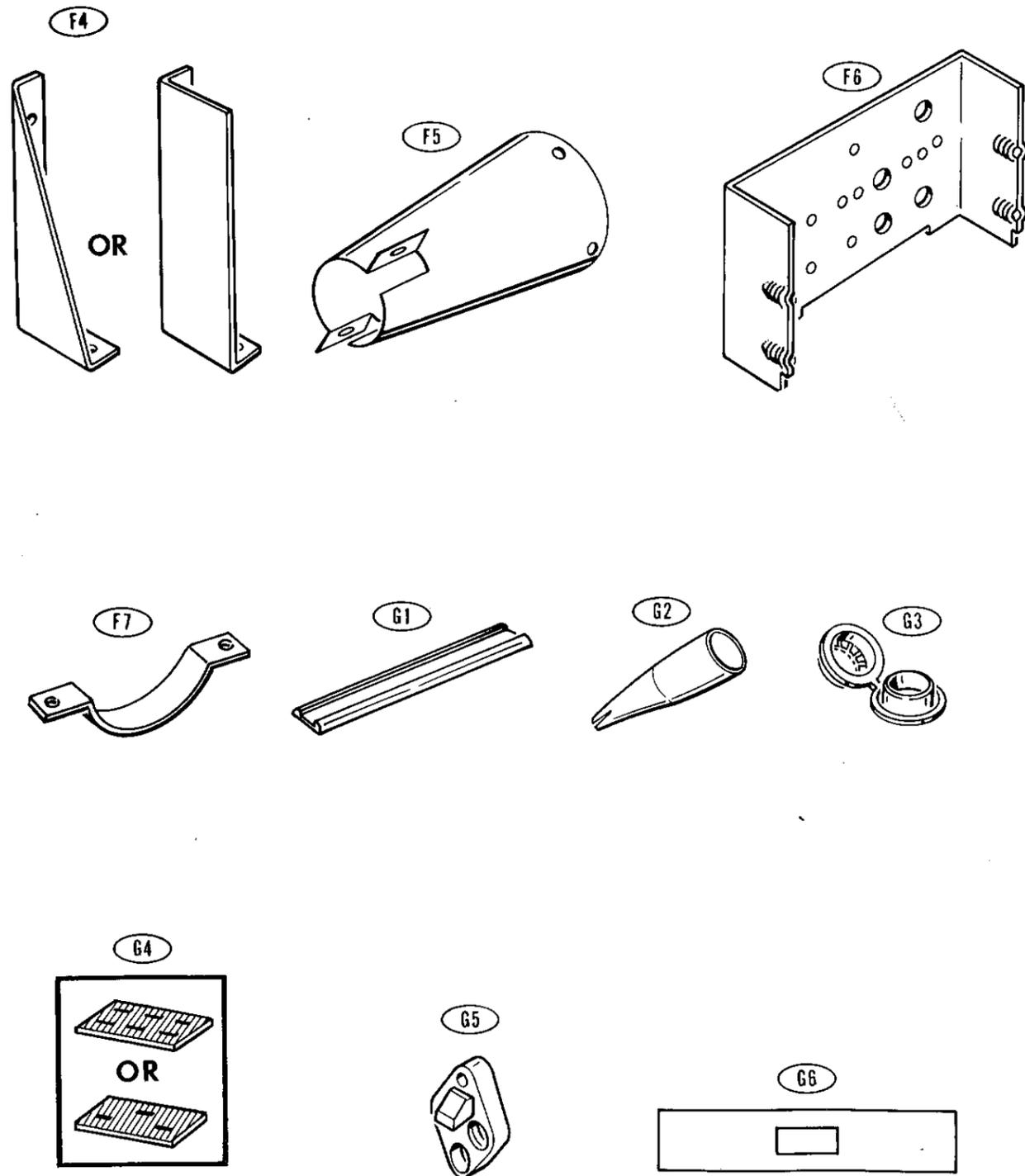
POWER SUPPLY CIRCUIT BOARD PARTS PICTORIAL

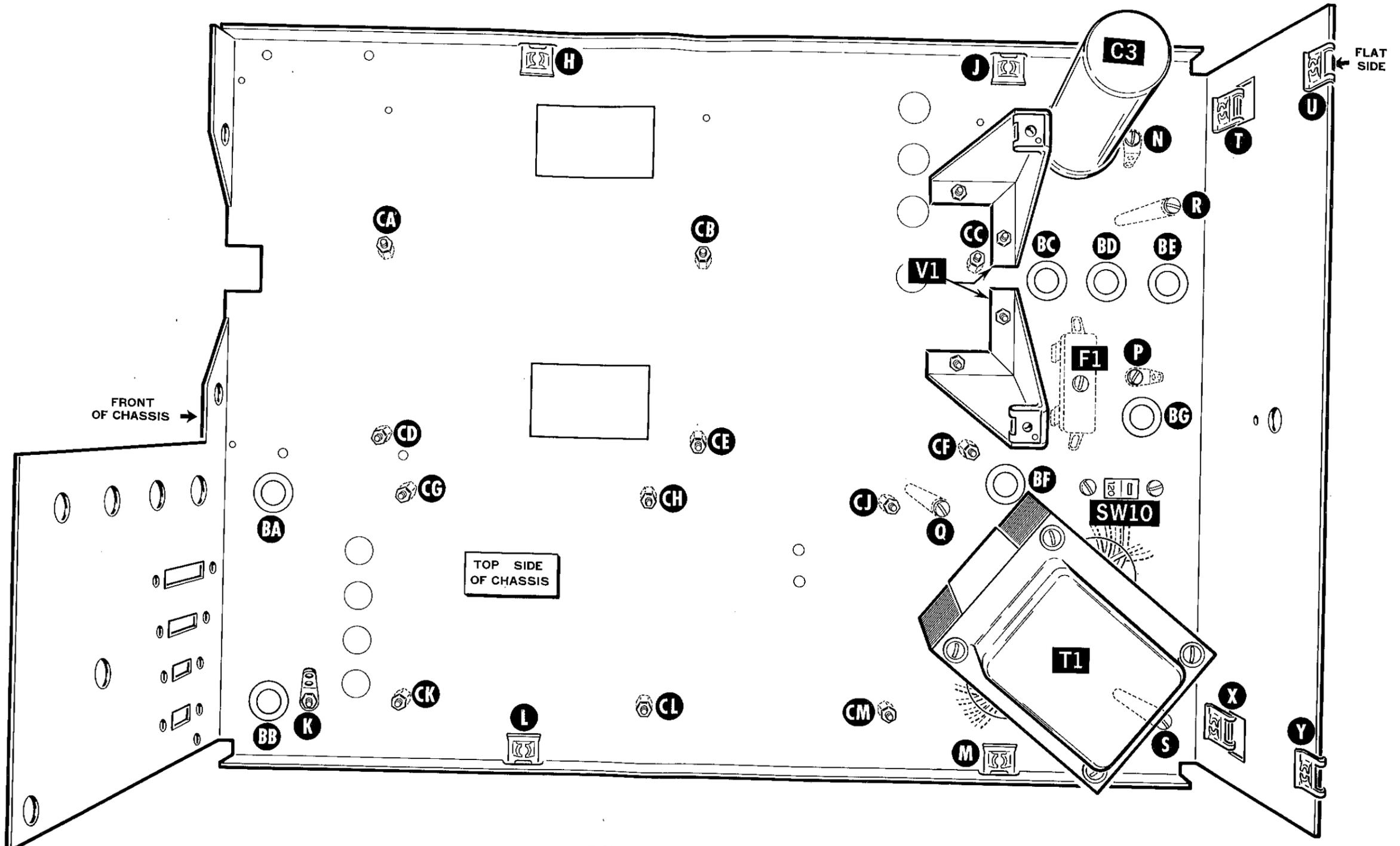


CHASSIS AND FINAL PACK PARTS PICTORIAL

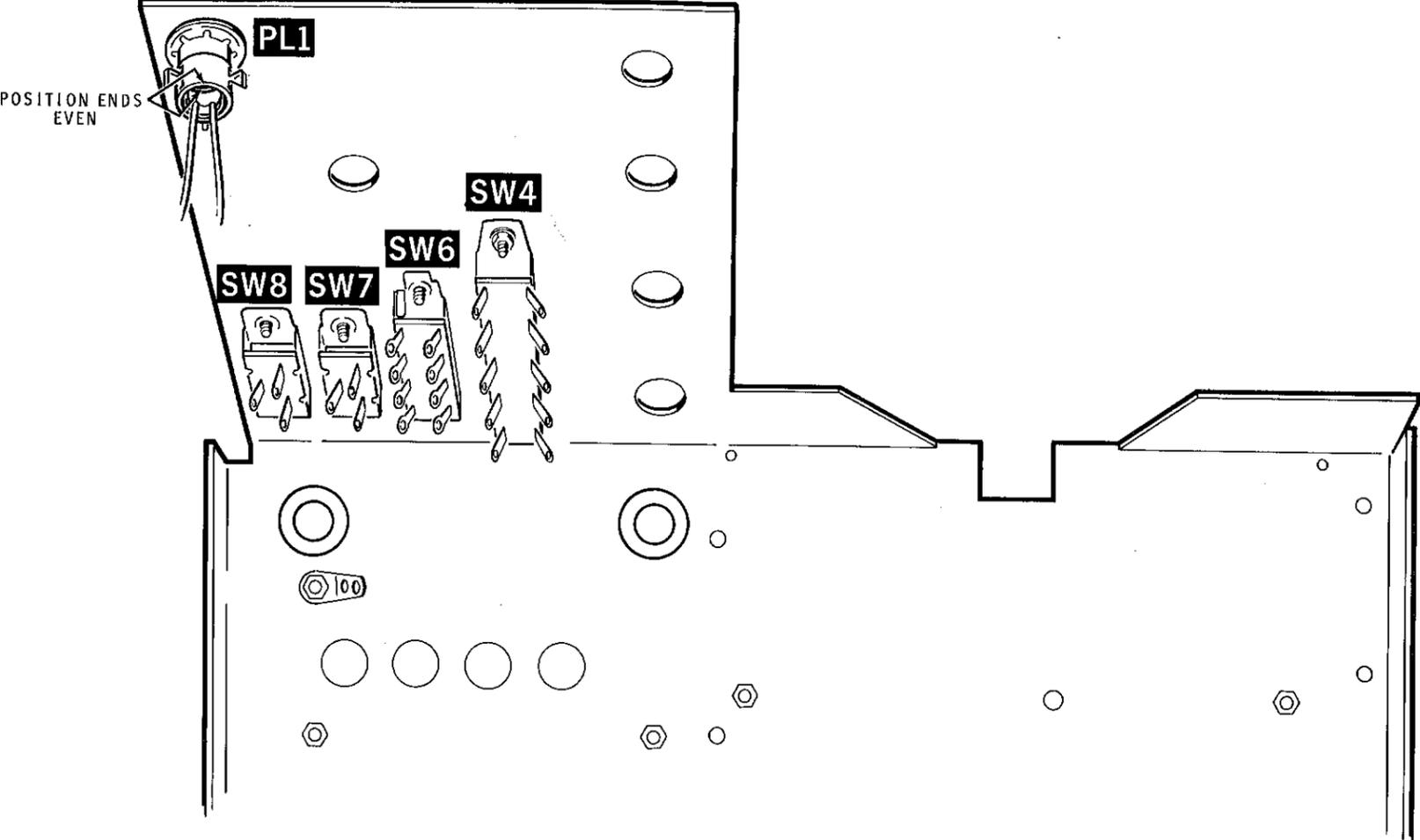


Chassis and Final Pack Parts Pictorial (Cont'd.)

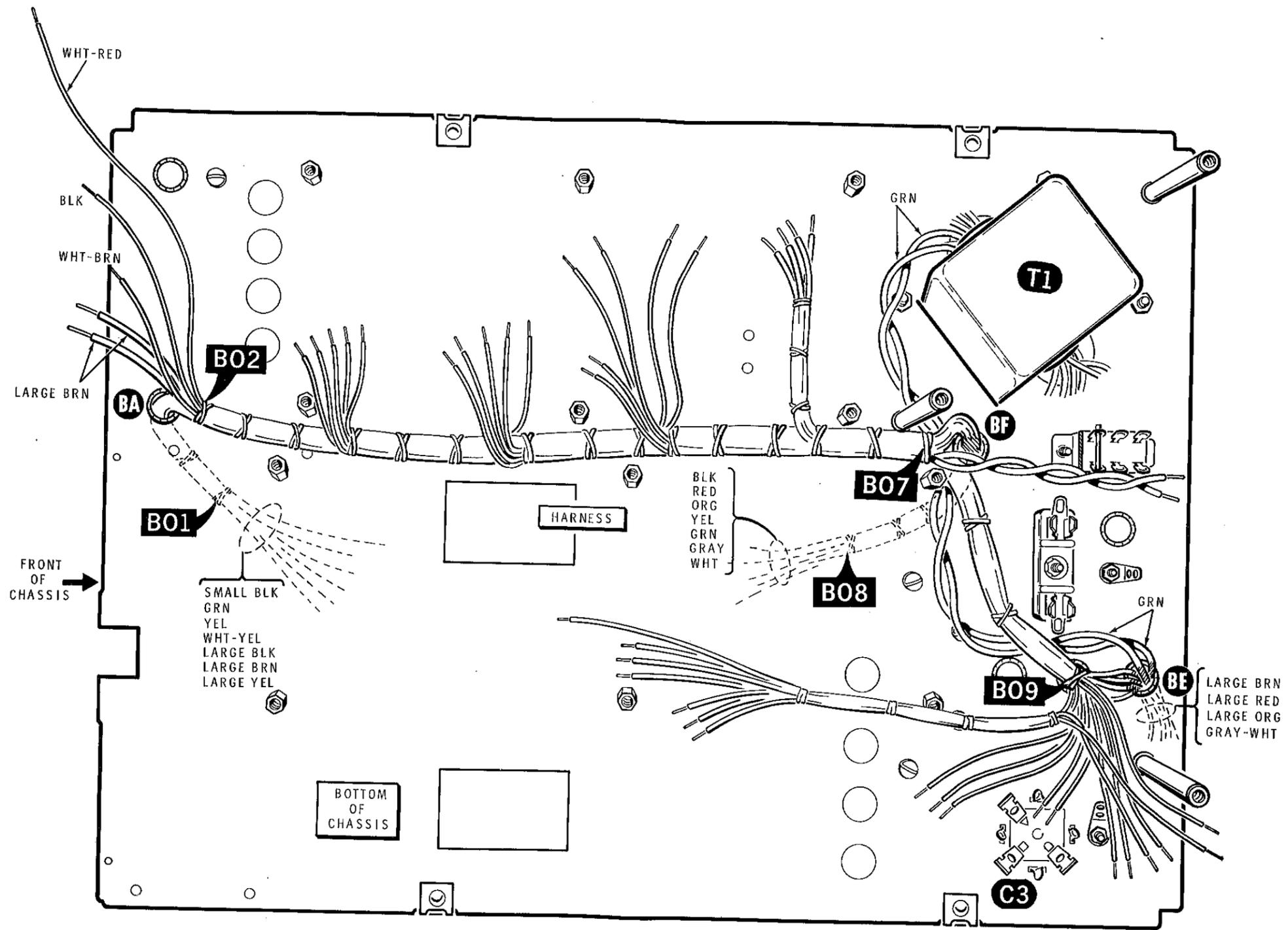




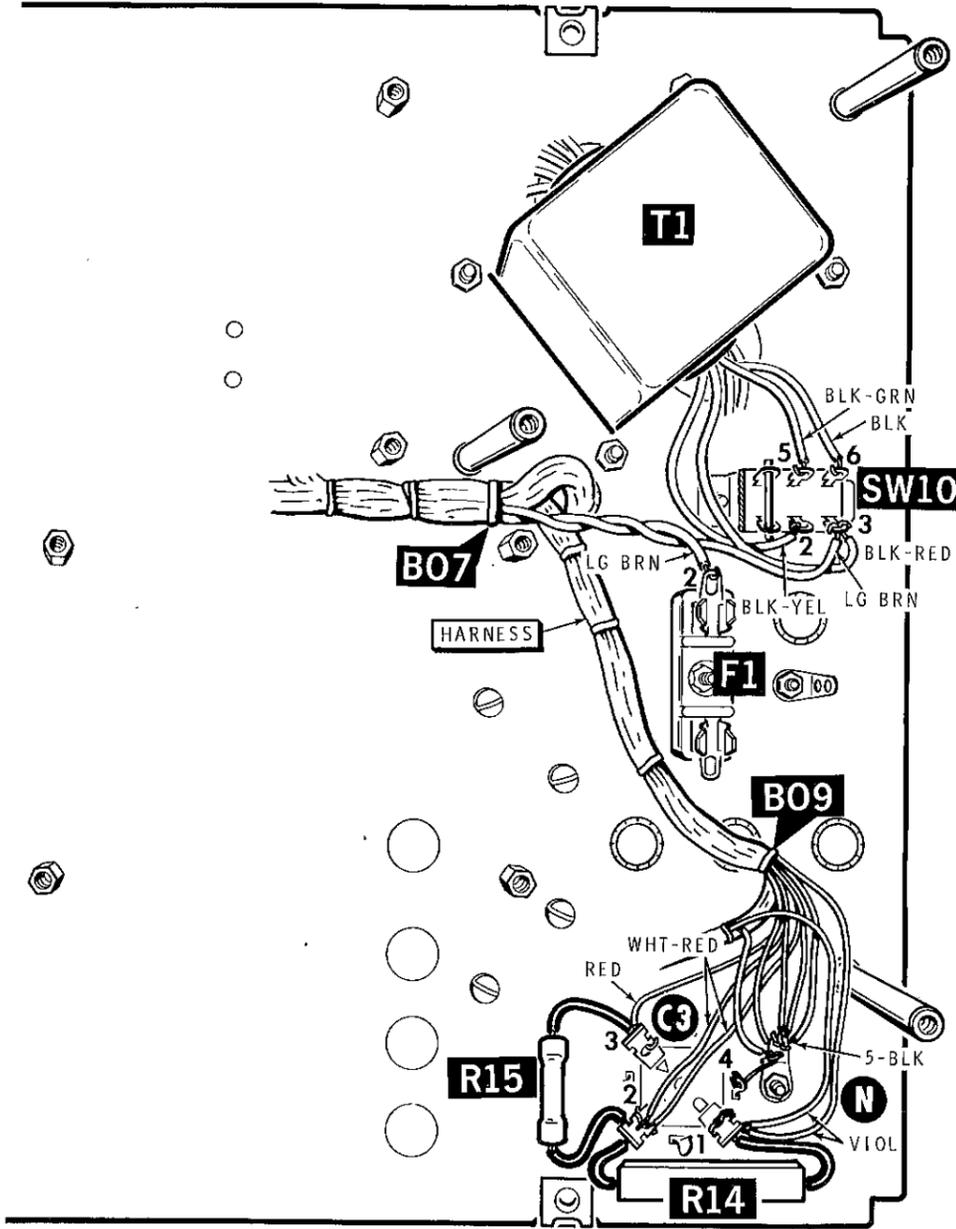
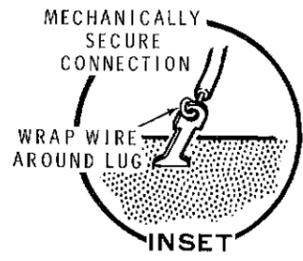
PICTORIAL 4-1



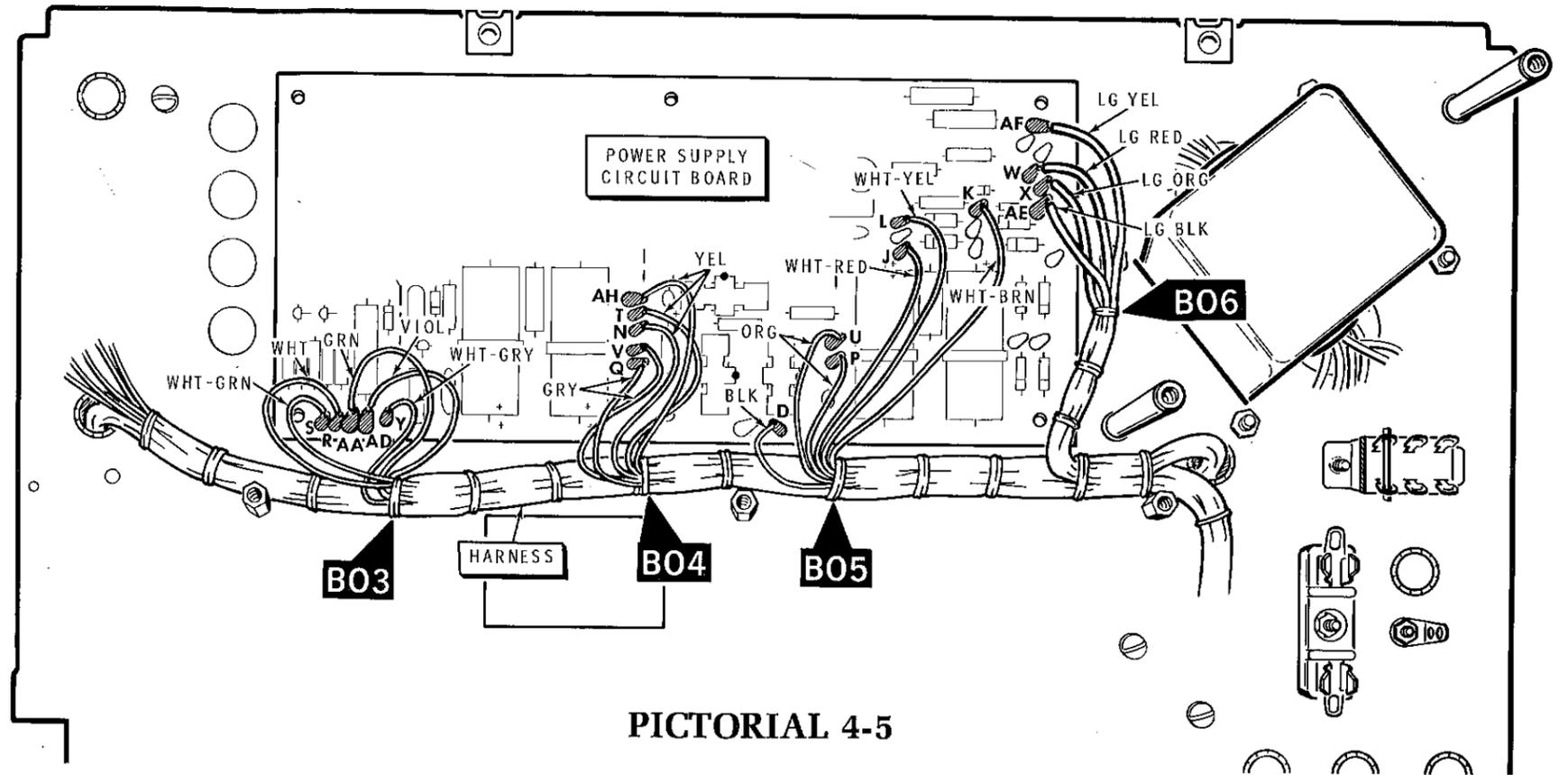
PICTORIAL 4-2



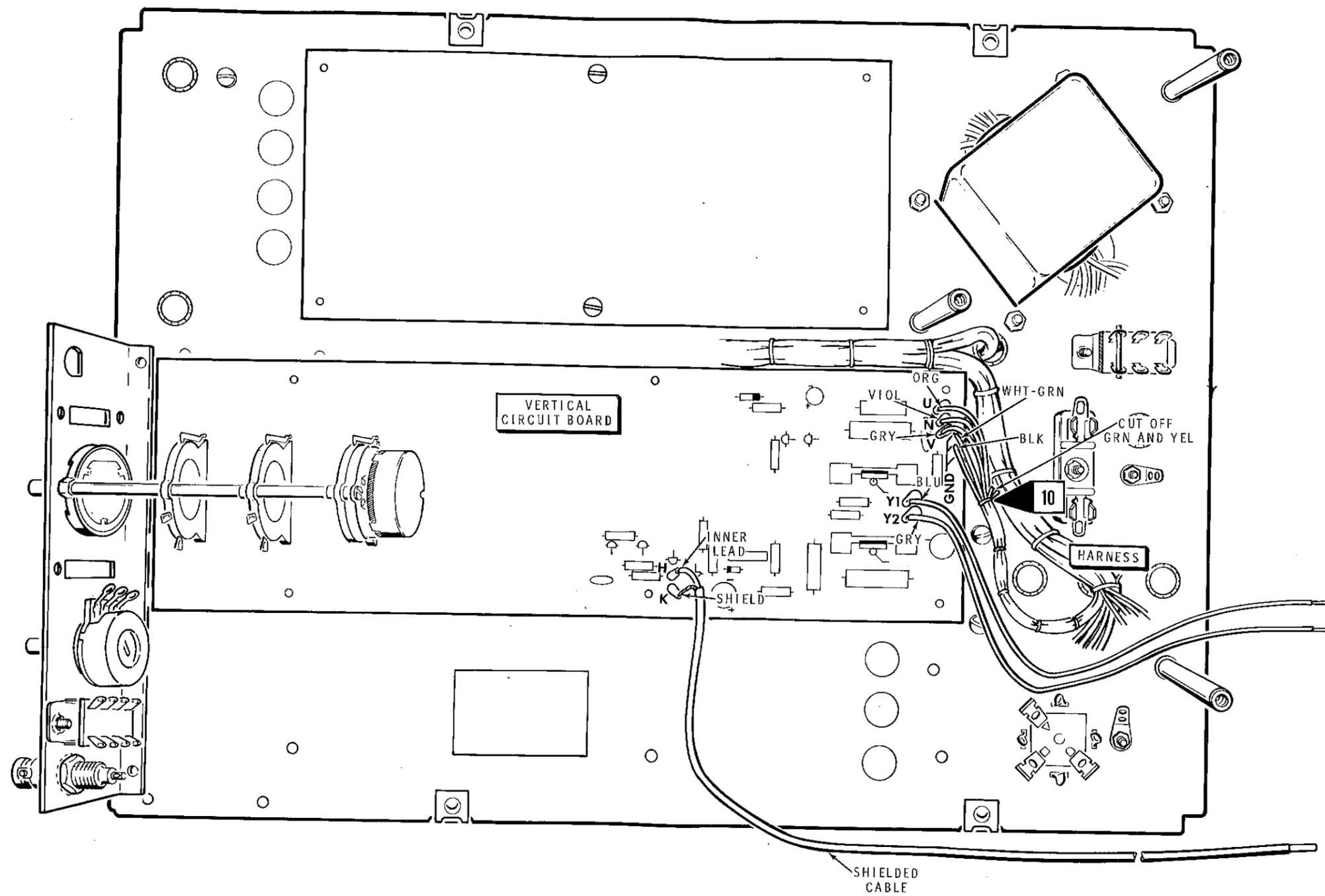
PICTORIAL 4-3



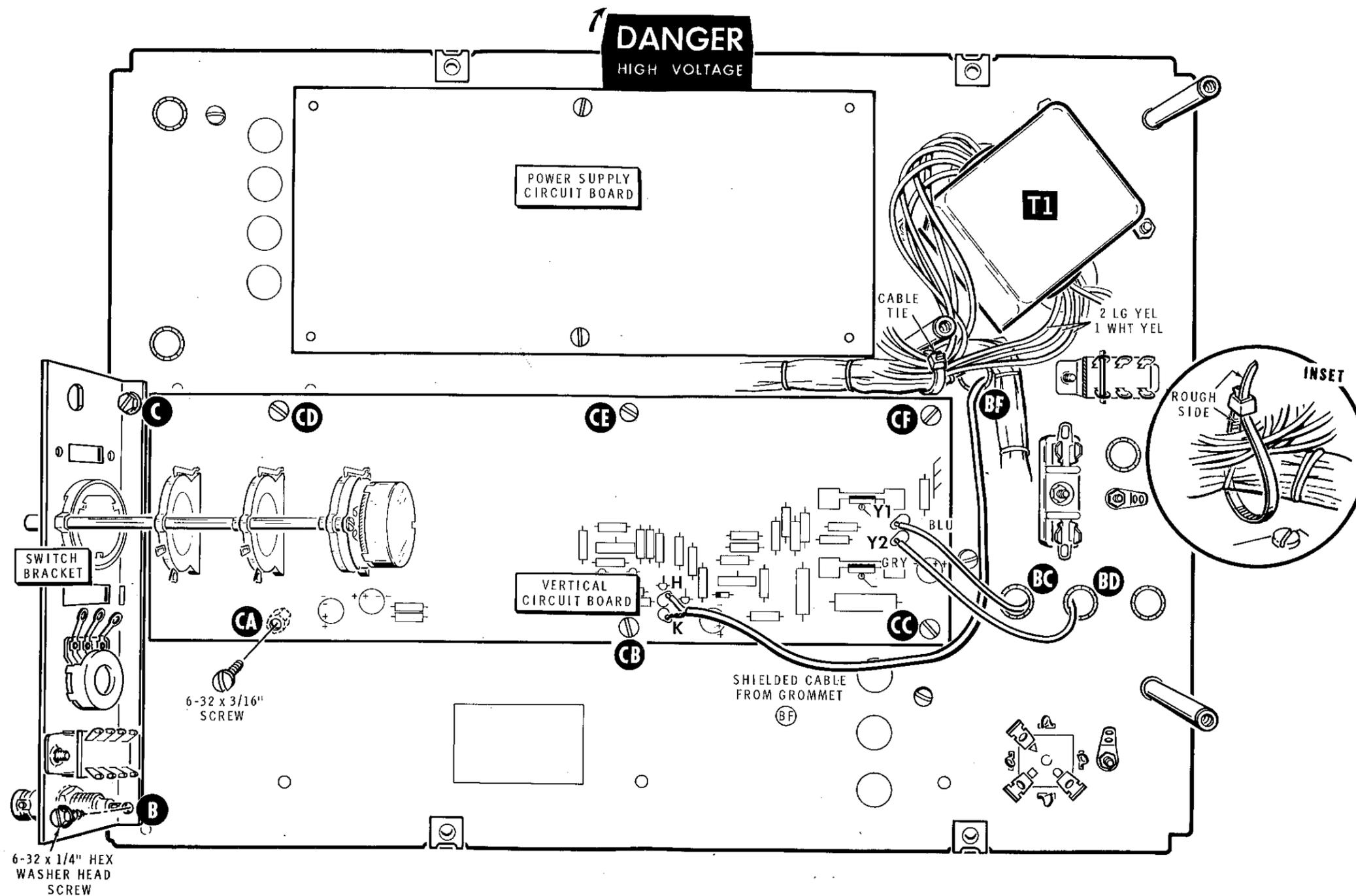
PICTORIAL 4-4



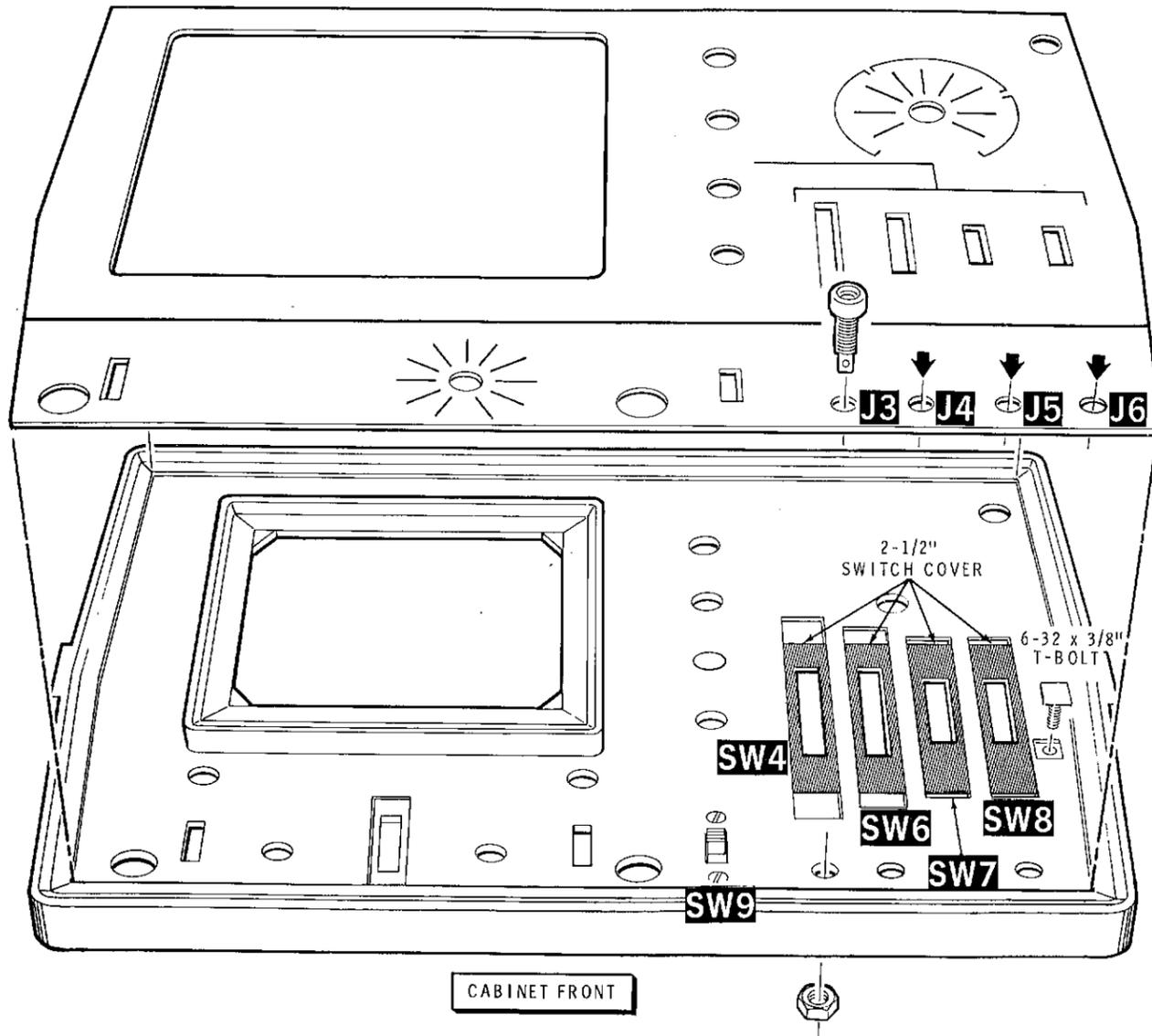
PICTORIAL 4-5



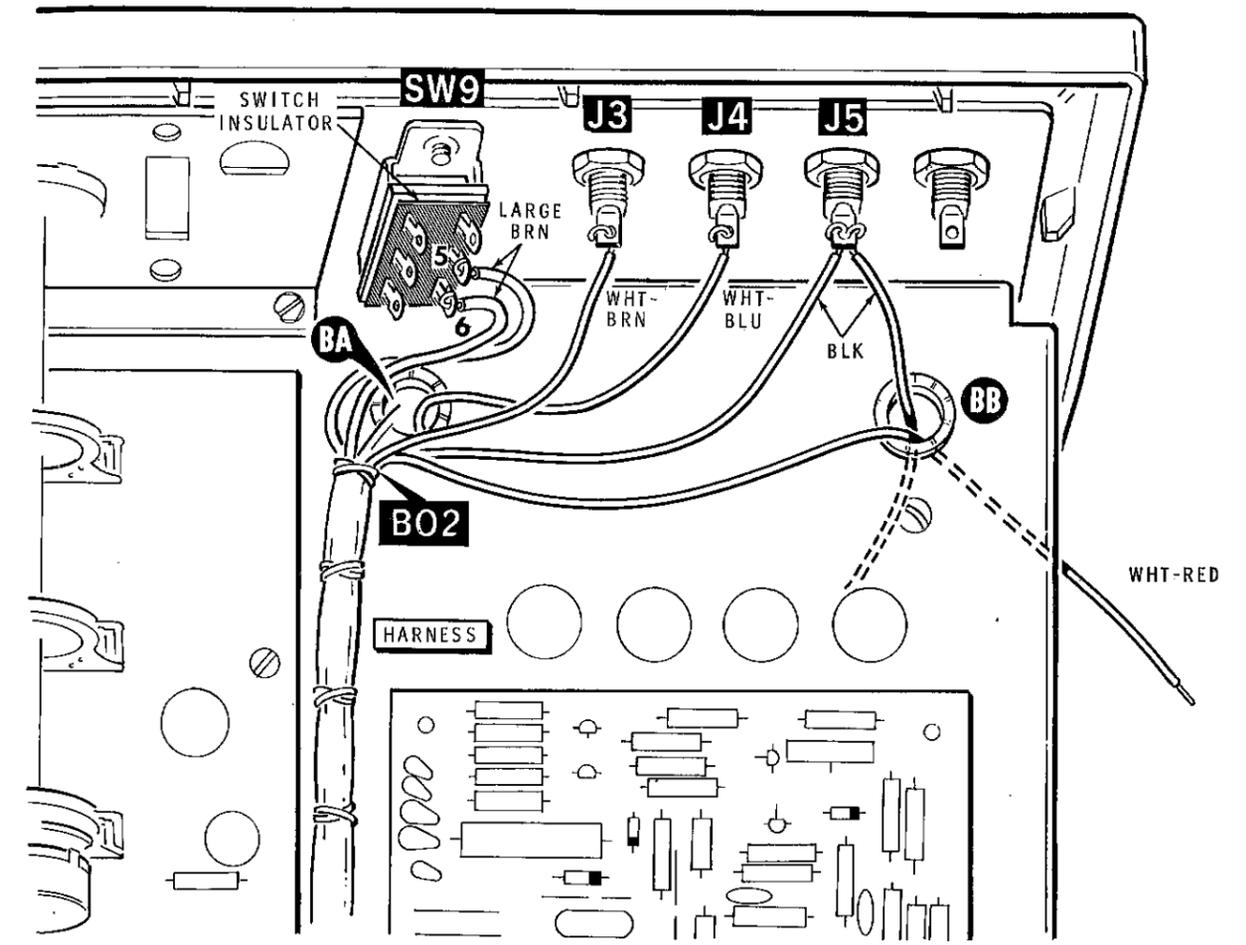
PICTORIAL 4-7



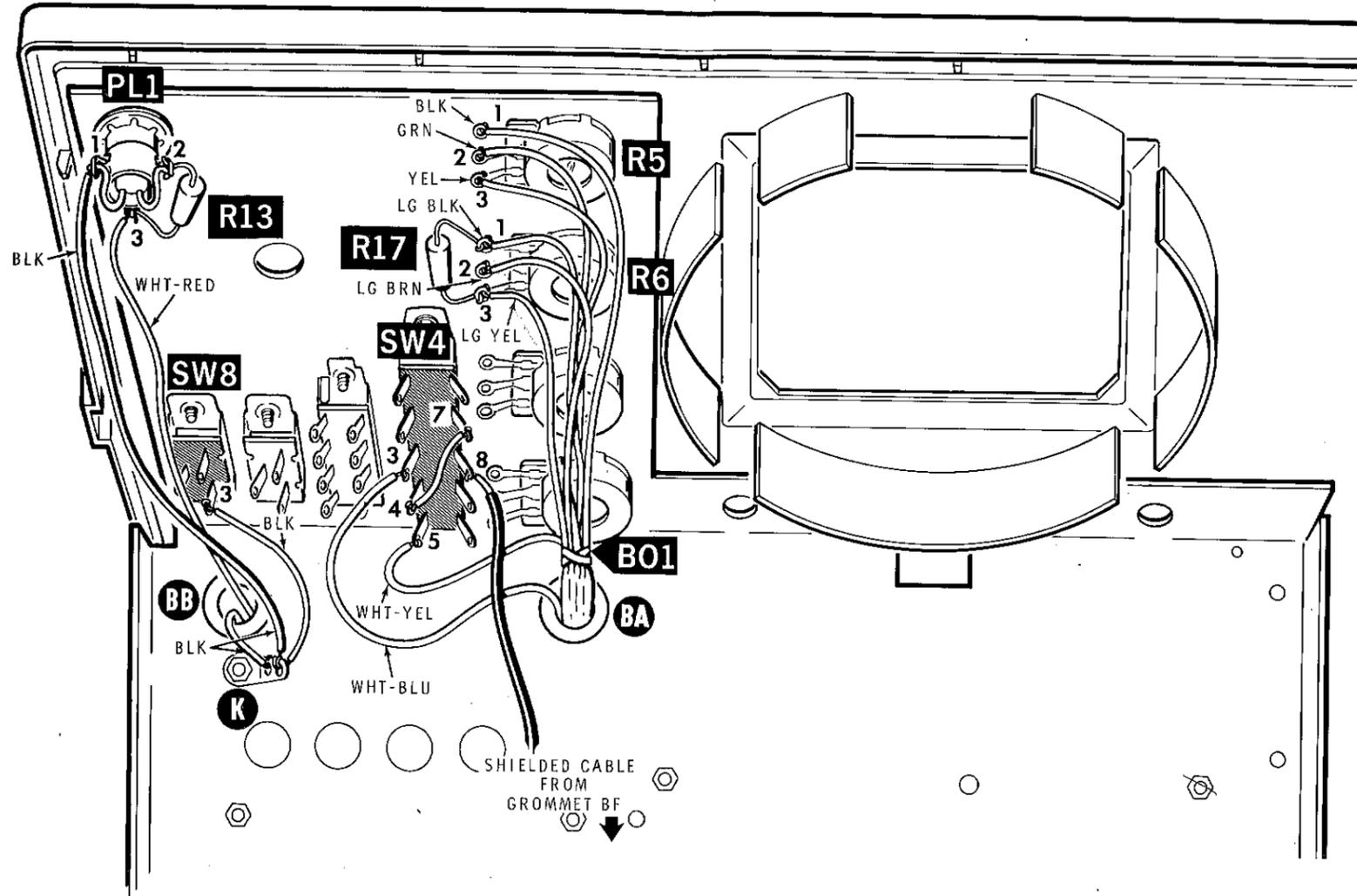
PICTORIAL 4-8



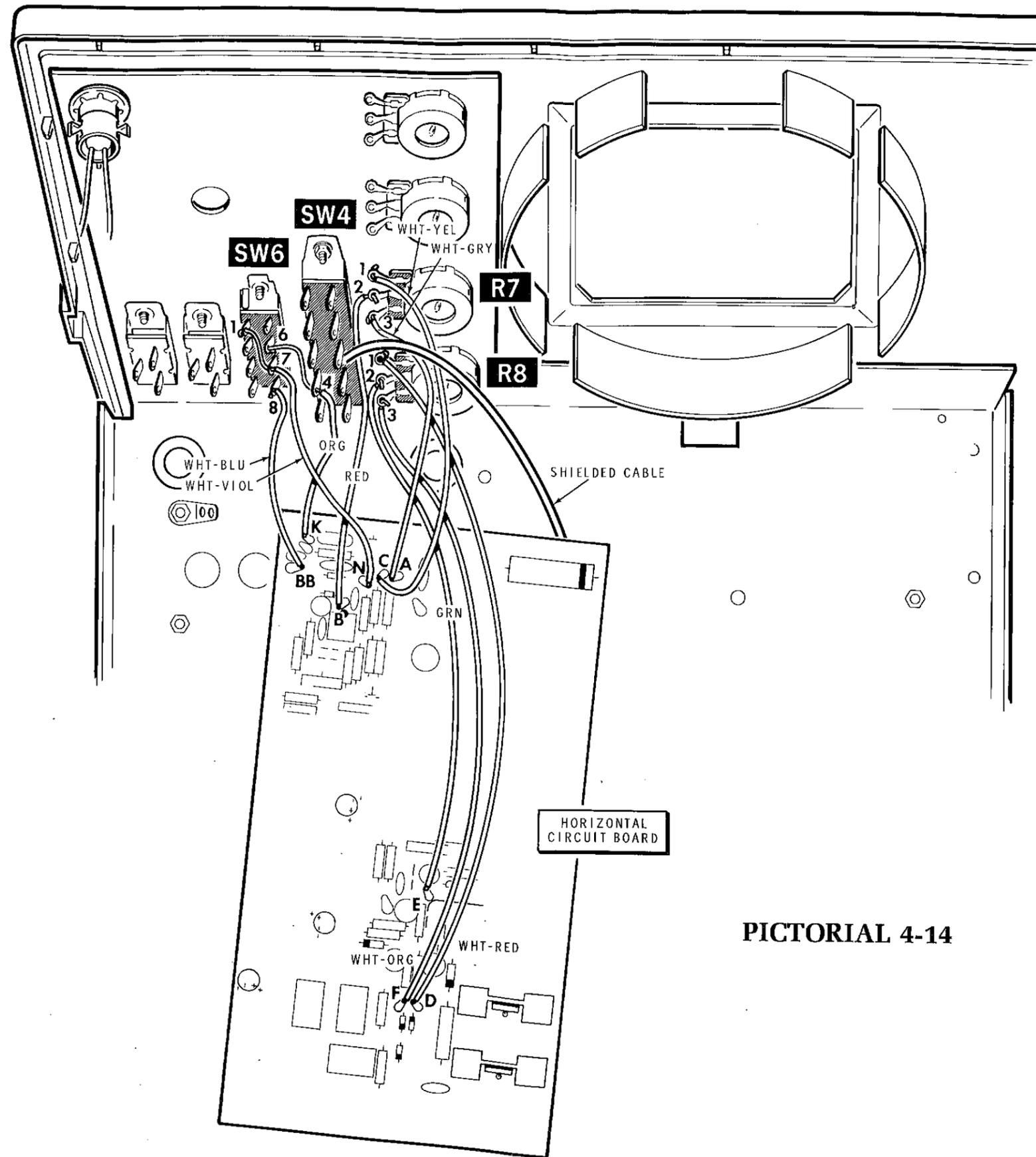
PICTORIAL 4-9



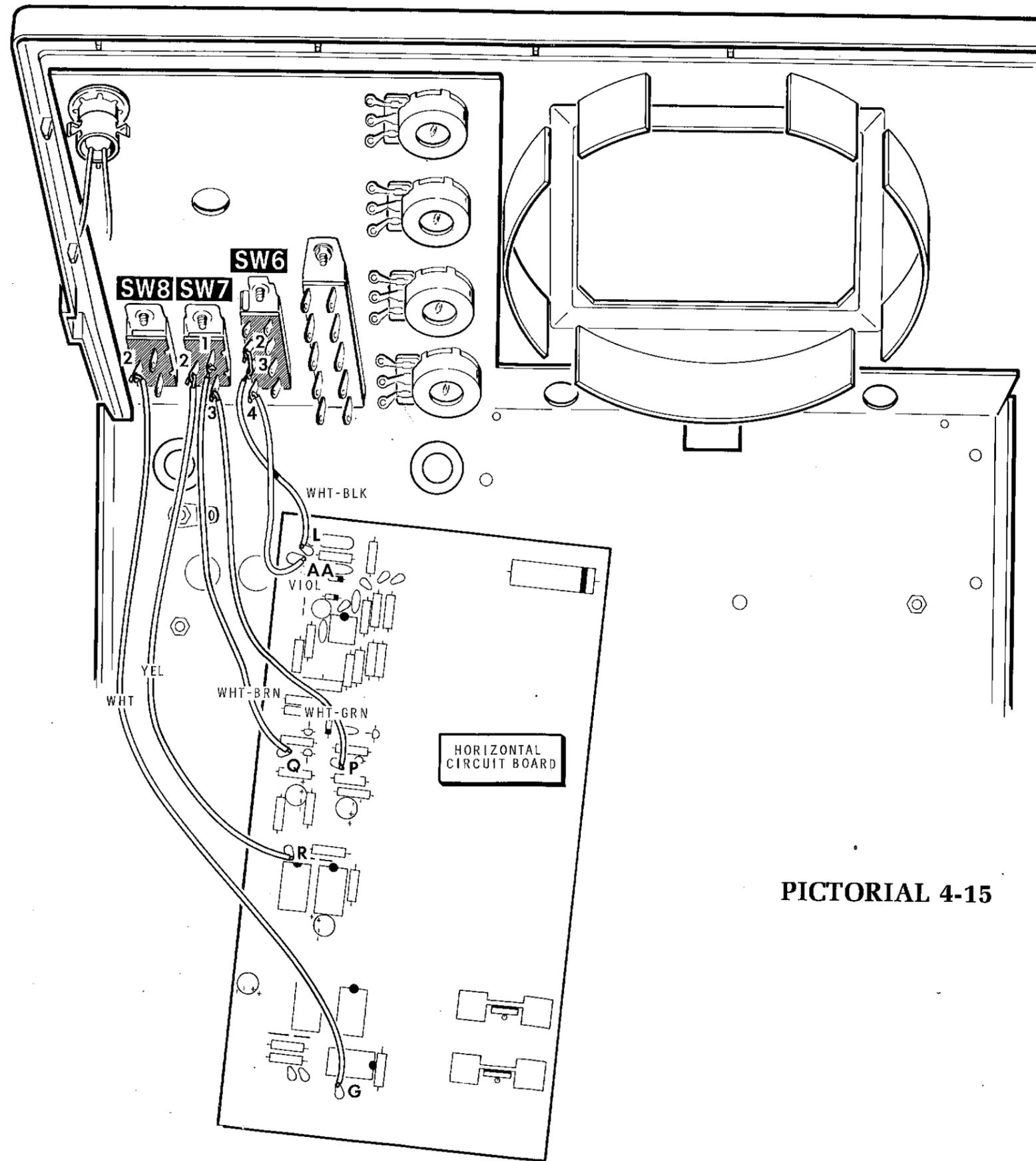
PICTORIAL 4-11



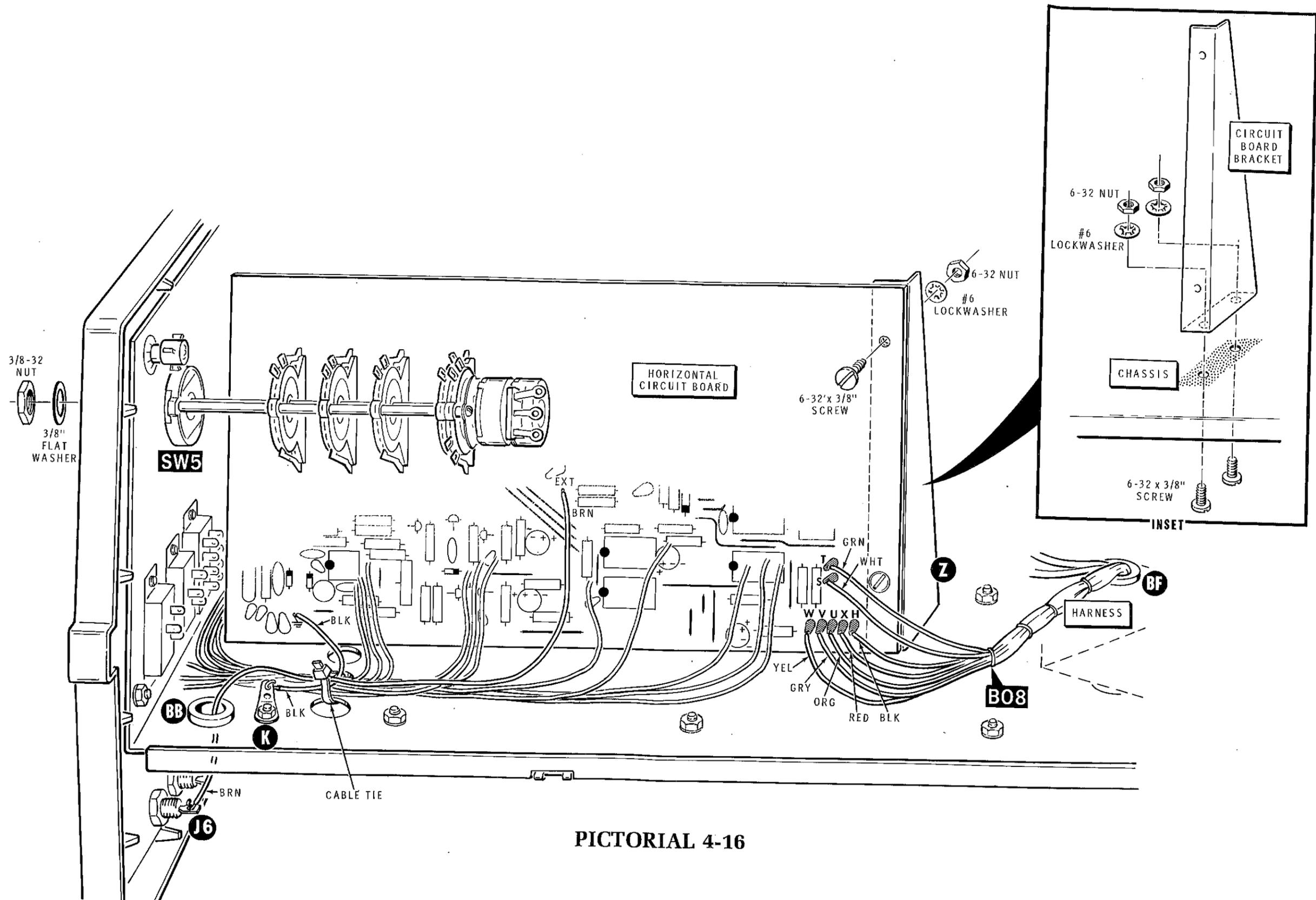
PICTORIAL 4-13



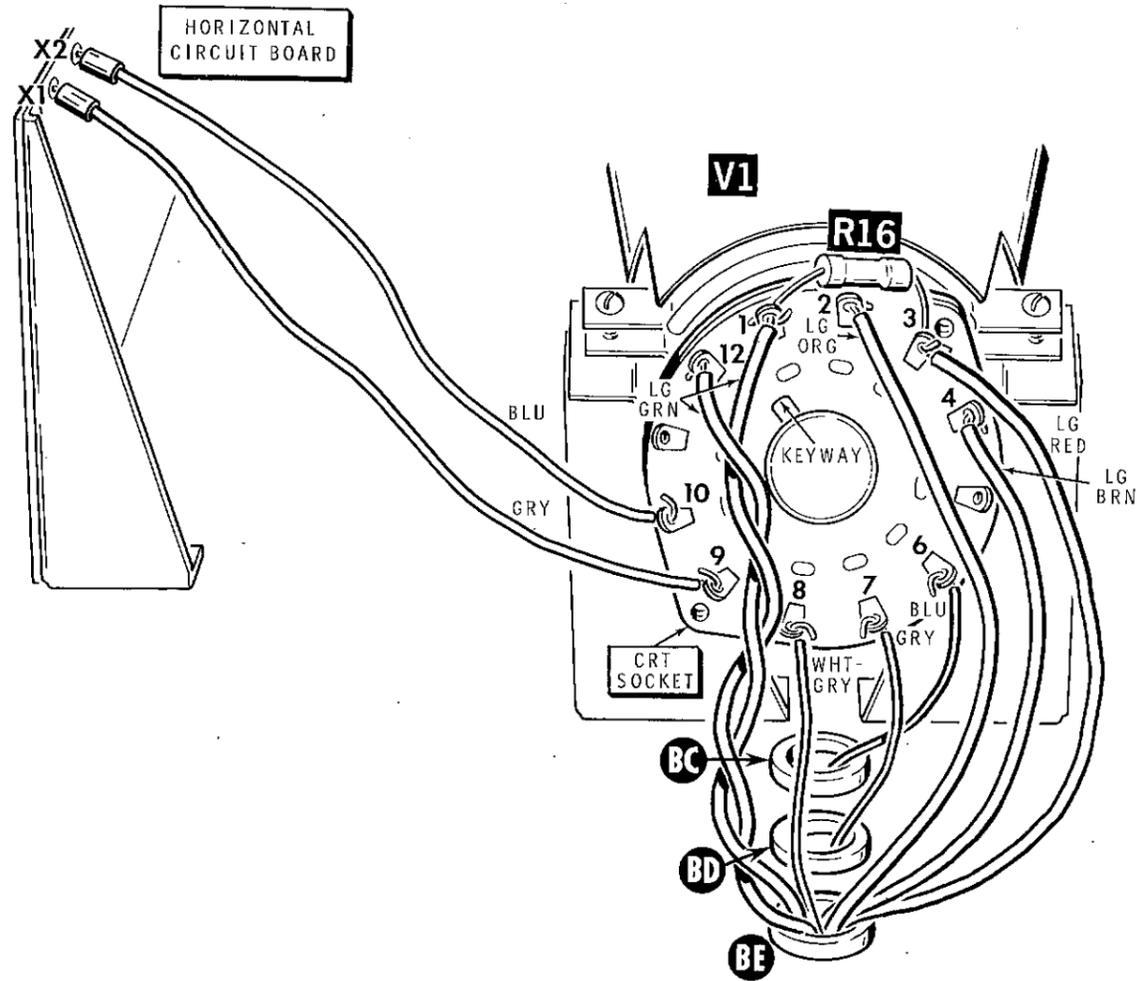
PICTORIAL 4-14



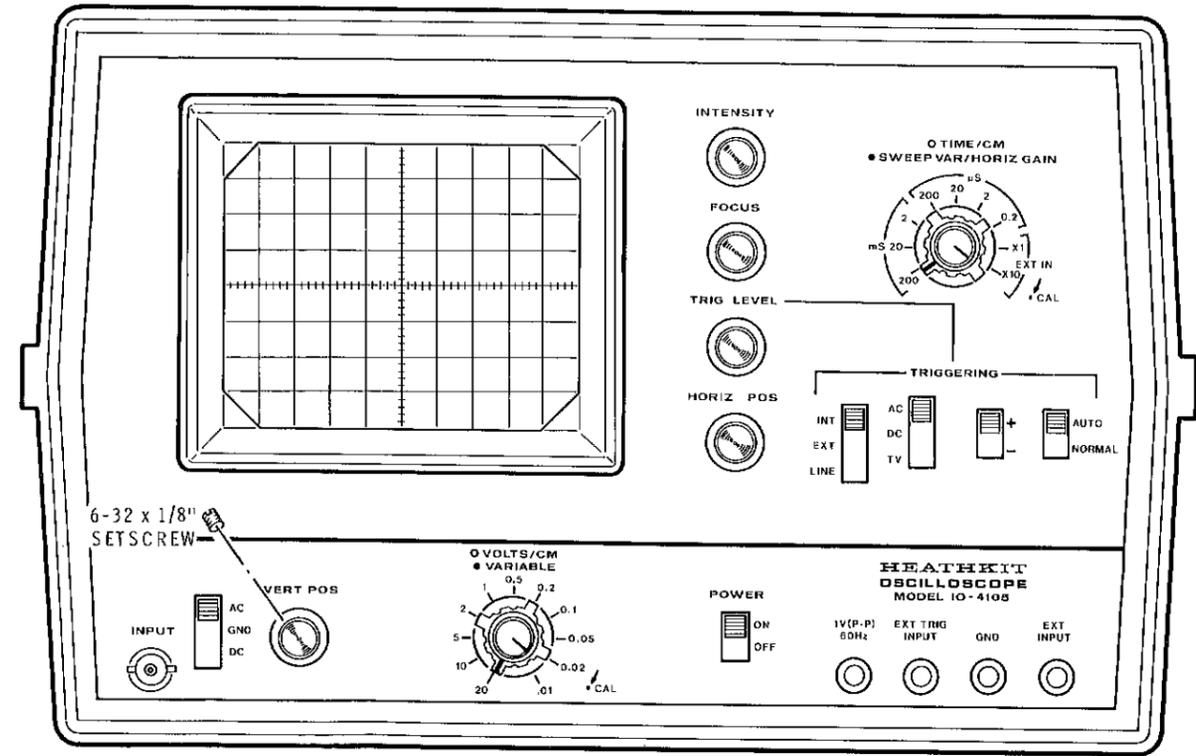
PICTORIAL 4-15



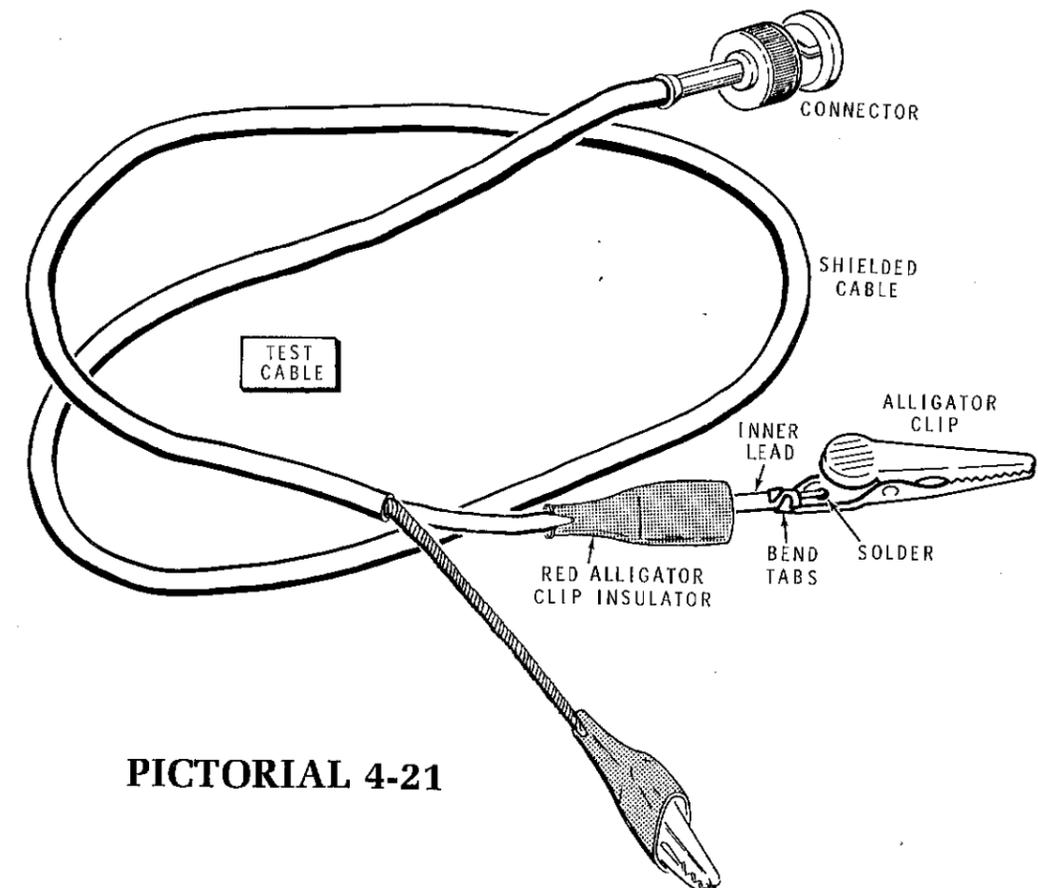
PICTORIAL 4-16



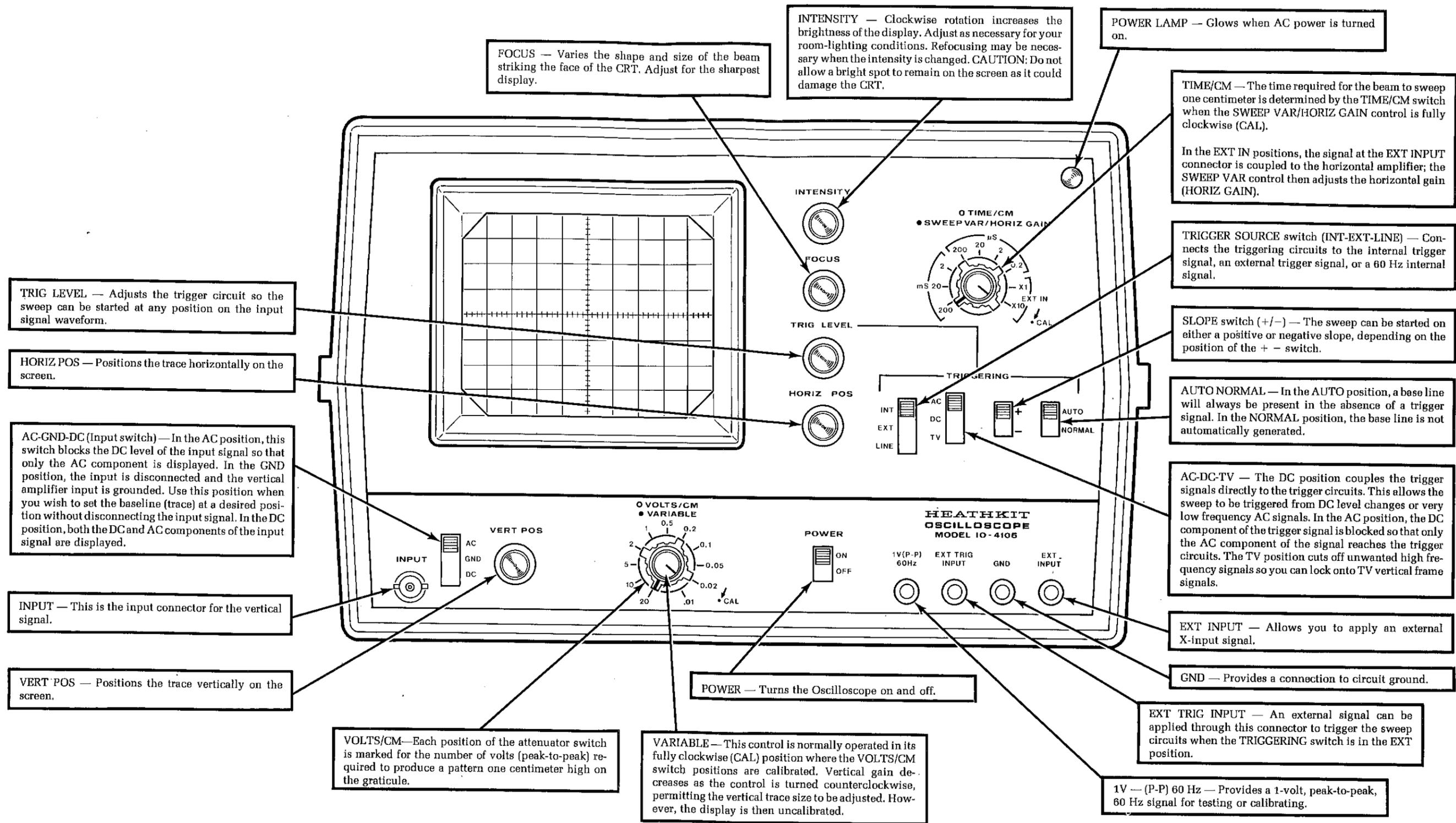
PICTORIAL 4-19



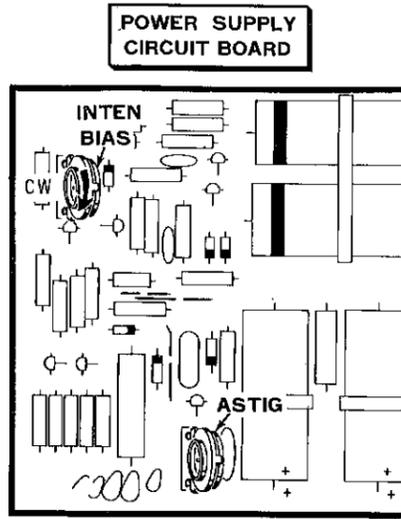
PICTORIAL 4-20



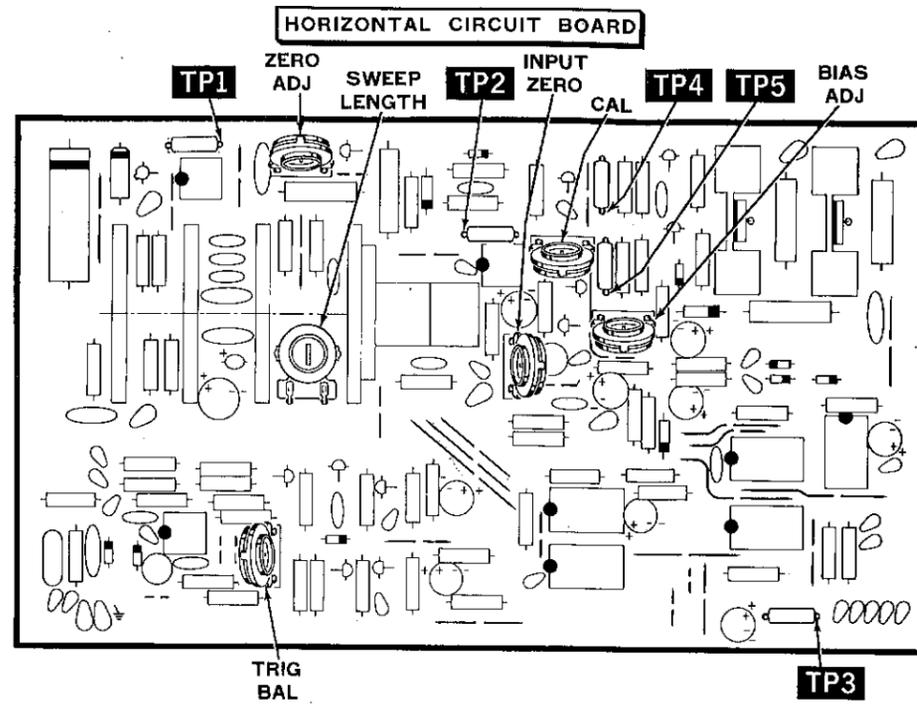
PICTORIAL 4-21



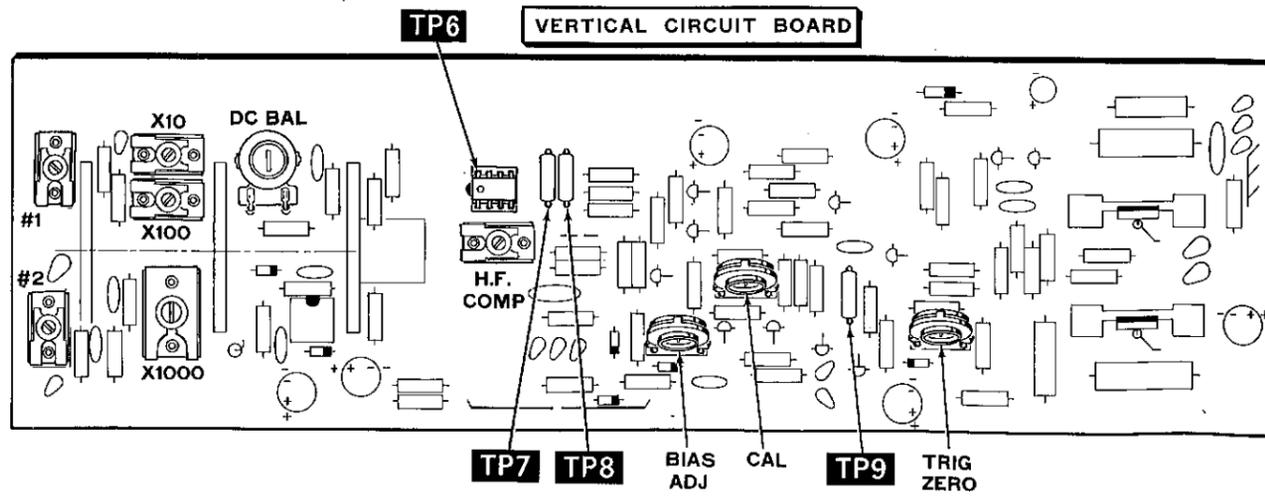
PICTORIAL 6-1



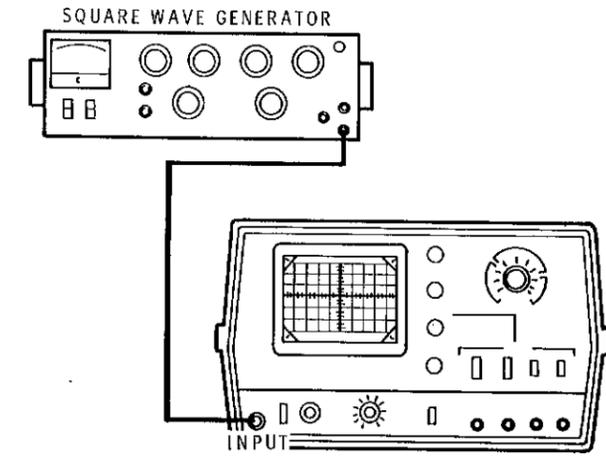
PICTORIAL 6-3



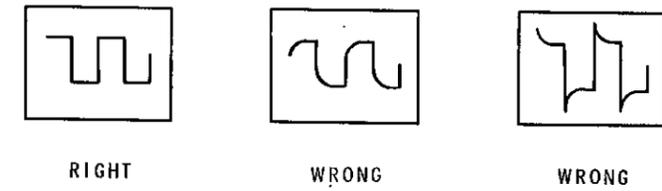
PICTORIAL 6-4



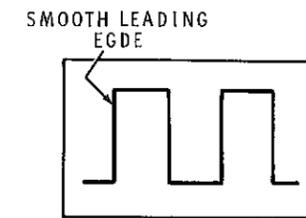
PICTORIAL 6-5



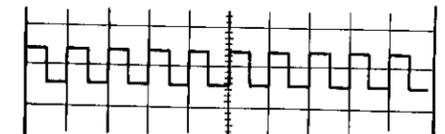
PICTORIAL 6-6



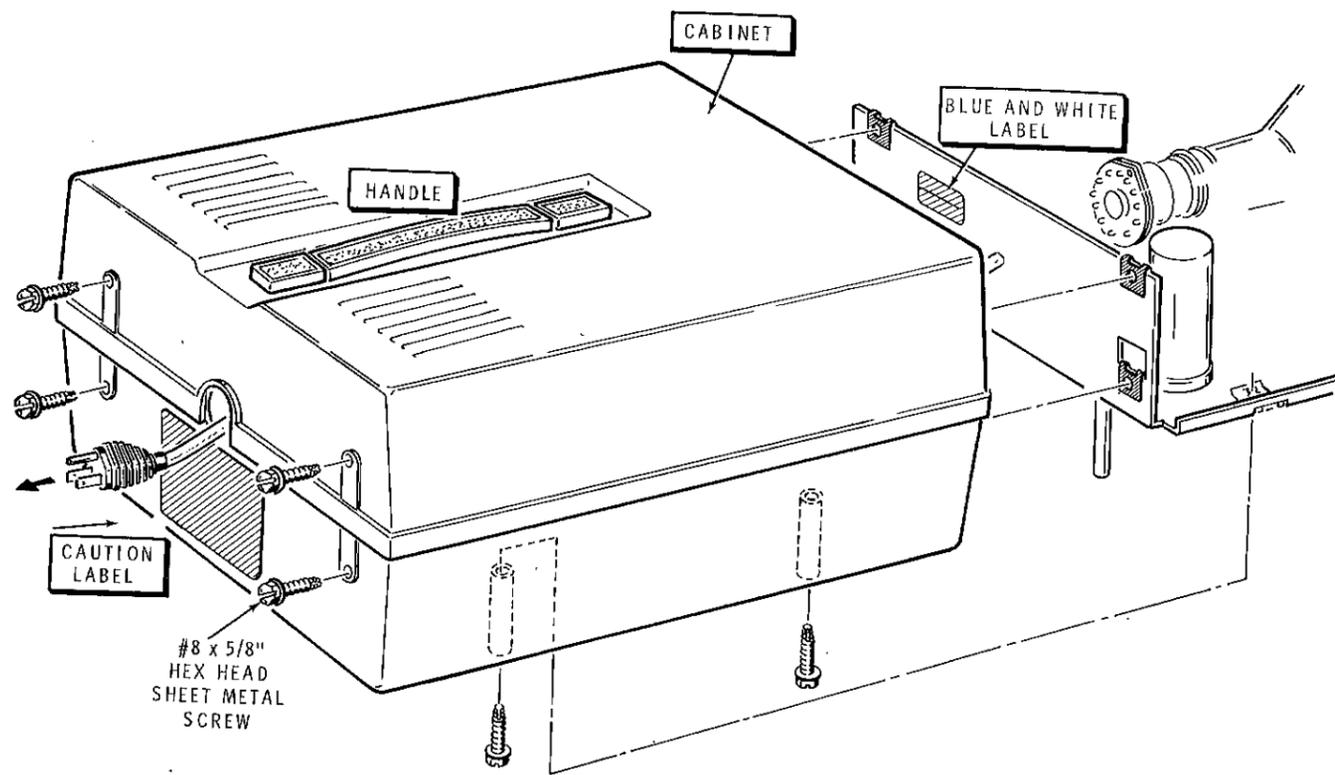
PICTORIAL 6-7



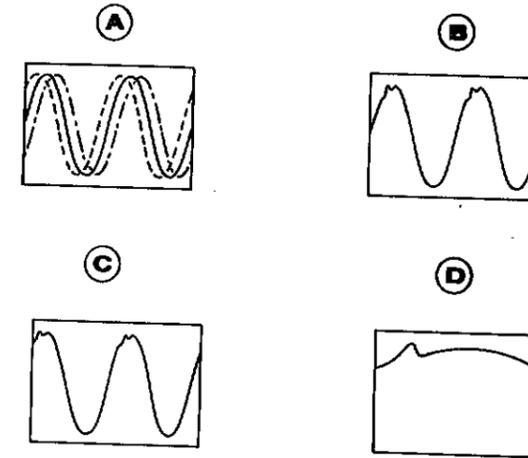
PICTORIAL 6-8



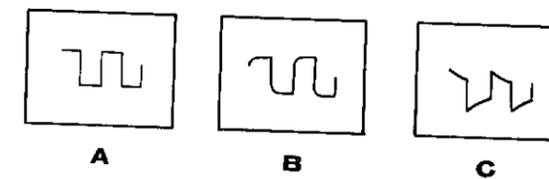
PICTORIAL 6-9



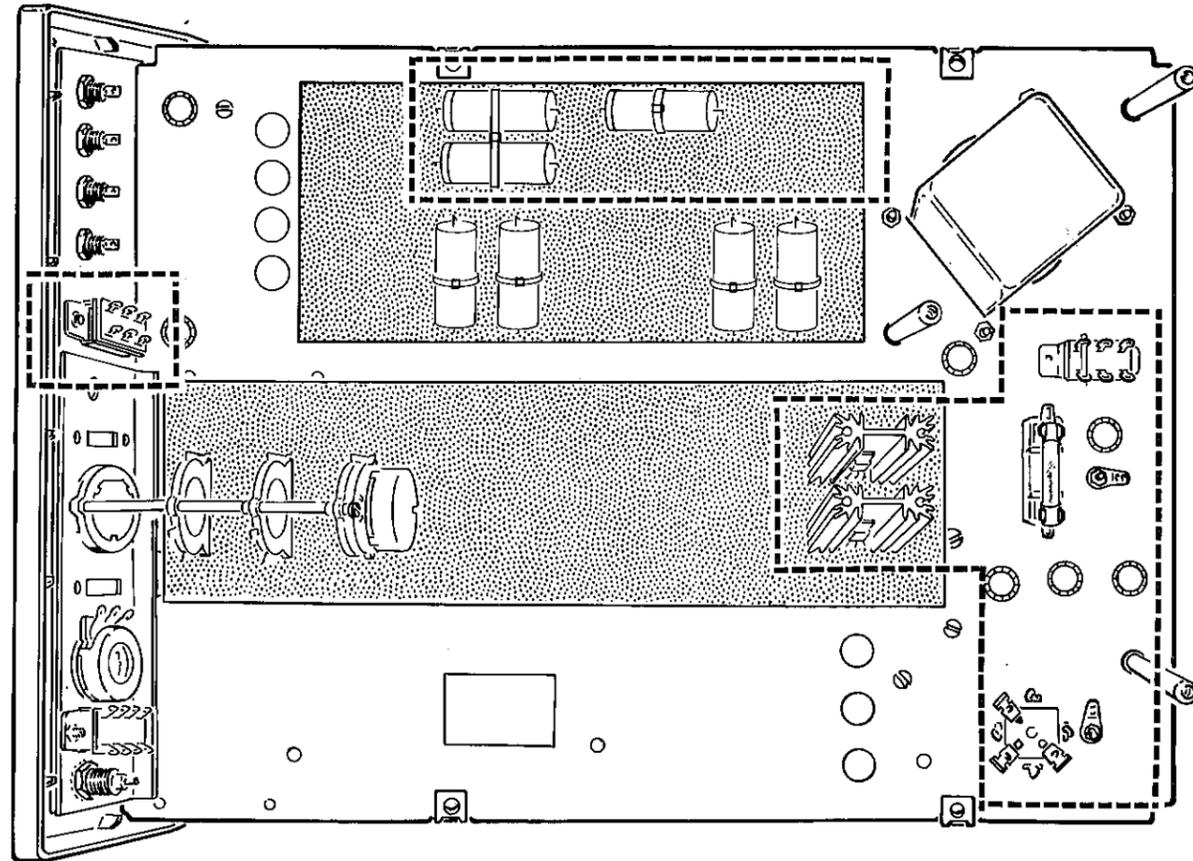
PICTORIAL 7-1



PICTORIAL 8-1

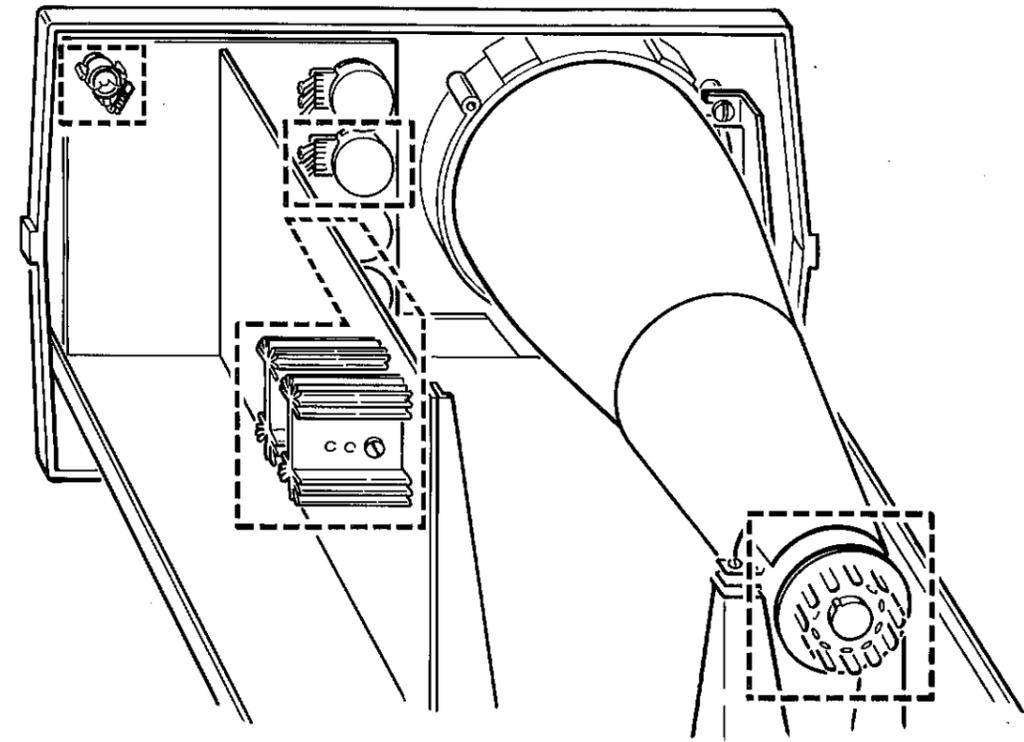


PICTORIAL 8-4



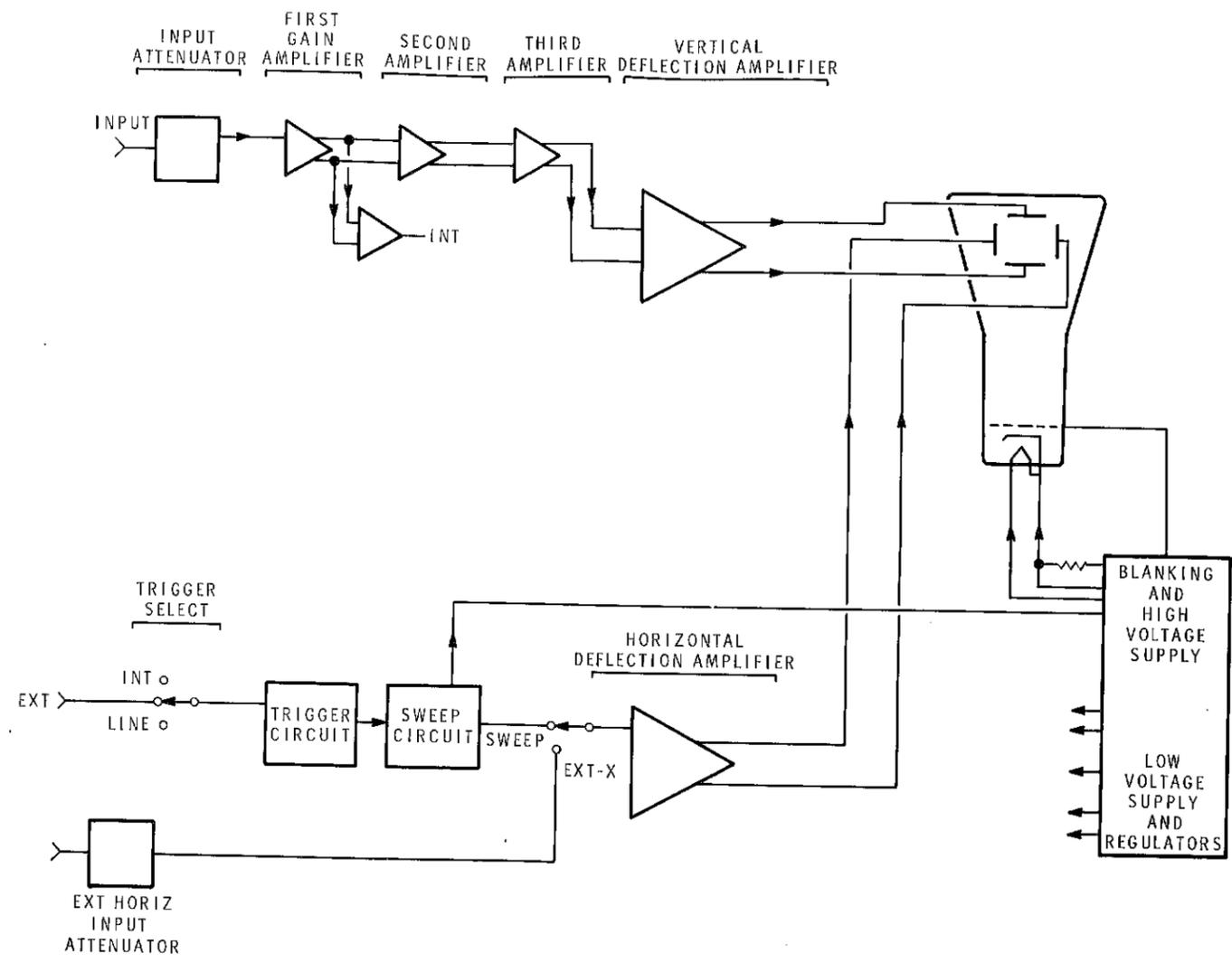
WARNING
DANGEROUS VOLTAGE
IN BOXED-IN AREAS

PICTORIAL 9-1



WARNING: DANGEROUS VOLTAGE
IN BOXED-IN AREAS

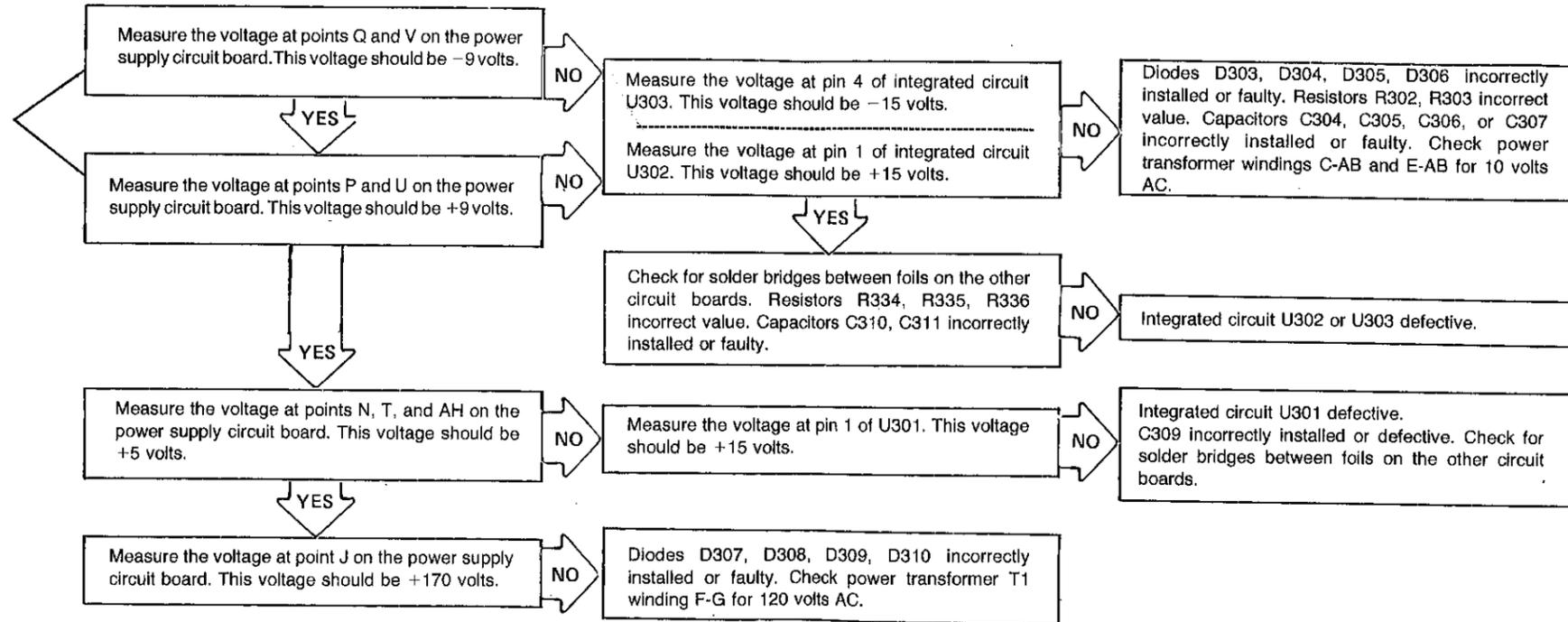
PICTORIAL 9-2



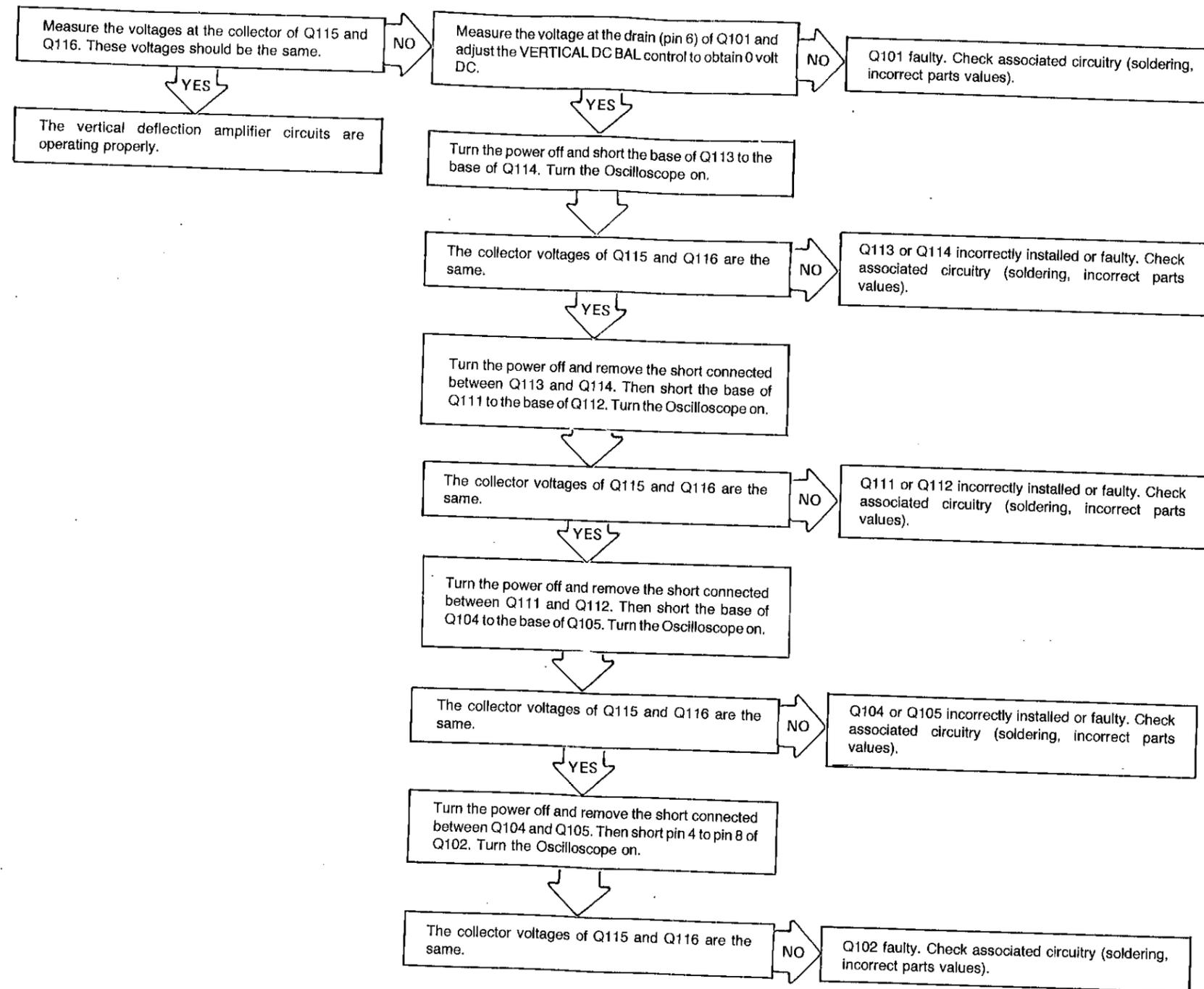
BLOCK DIAGRAM

TEST #1
±9 VOLTS AND +5 VOLTS POWER SUPPLY

NOTE: These supplies track each other. If one supply fails, the other will also shut down.

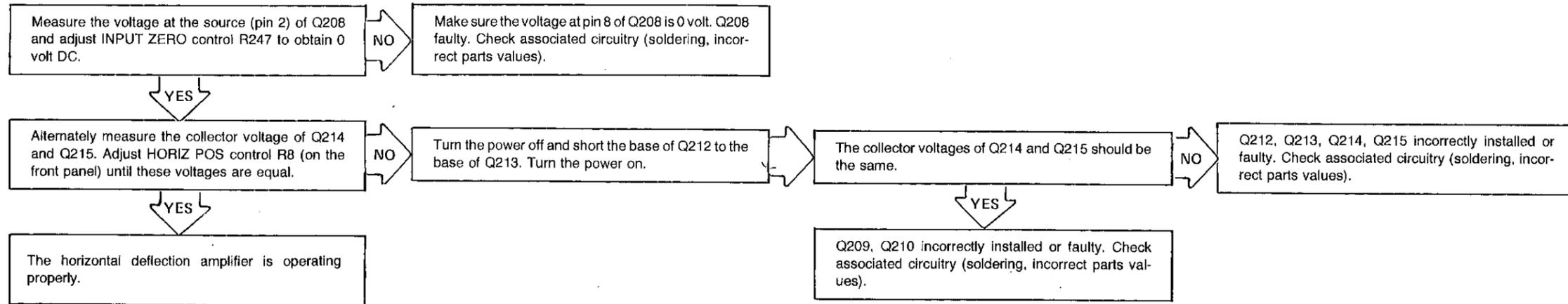


TEST #2 VERTICAL DEFLECTION AMPLIFIER



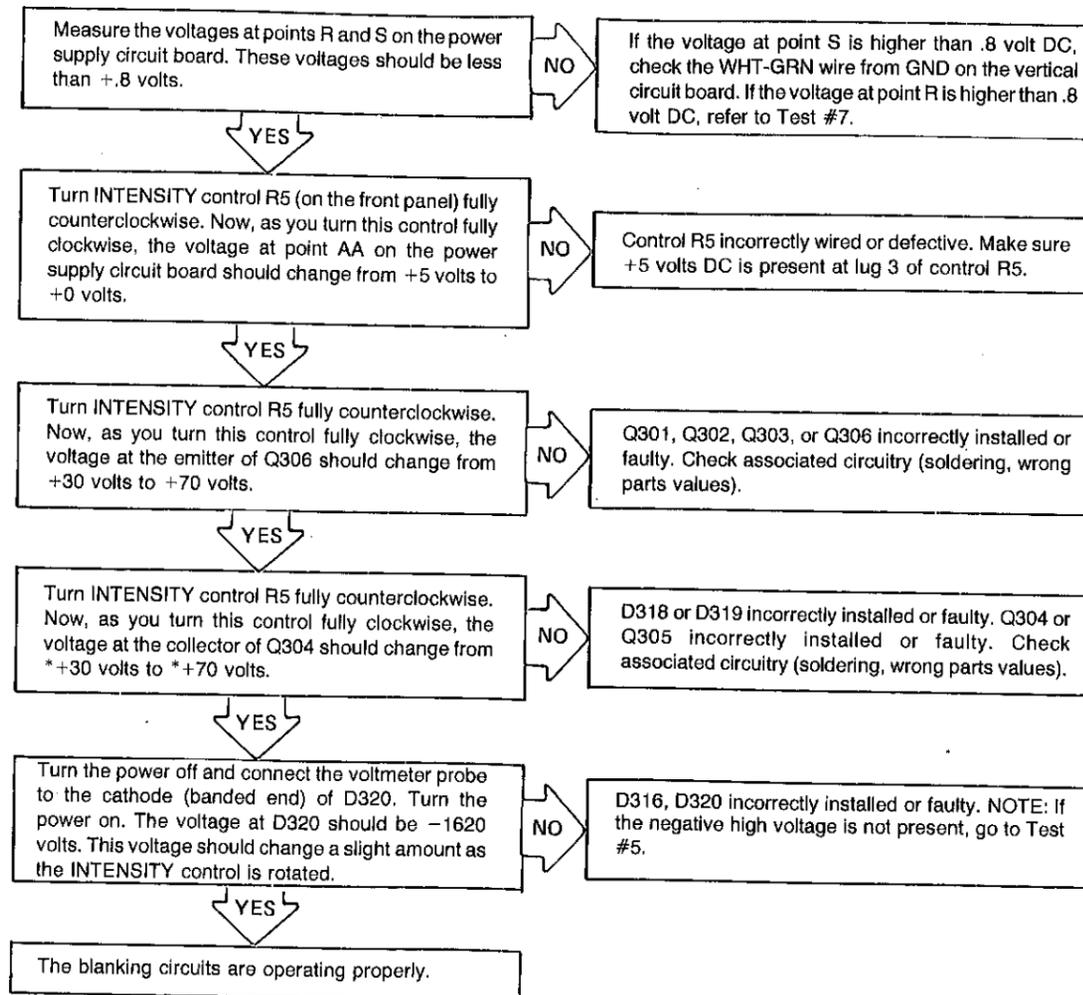
TEST #3 HORIZONTAL DEFLECTION AMPLIFIER

NOTE: Make sure TIME/CM switch SW5 is in EXT IN, $\times 10$ position.



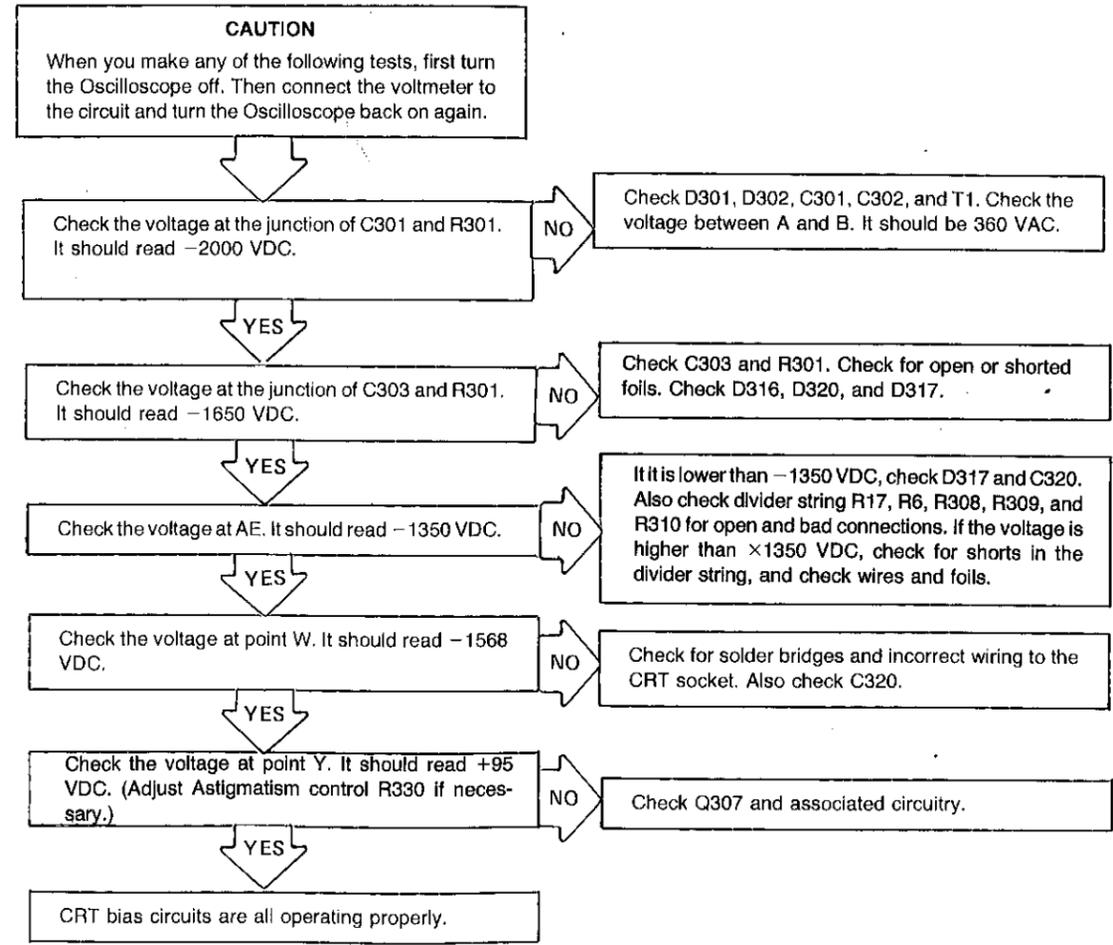
TEST #4 BLANKING CIRCUIT

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 24 of this Booklet.

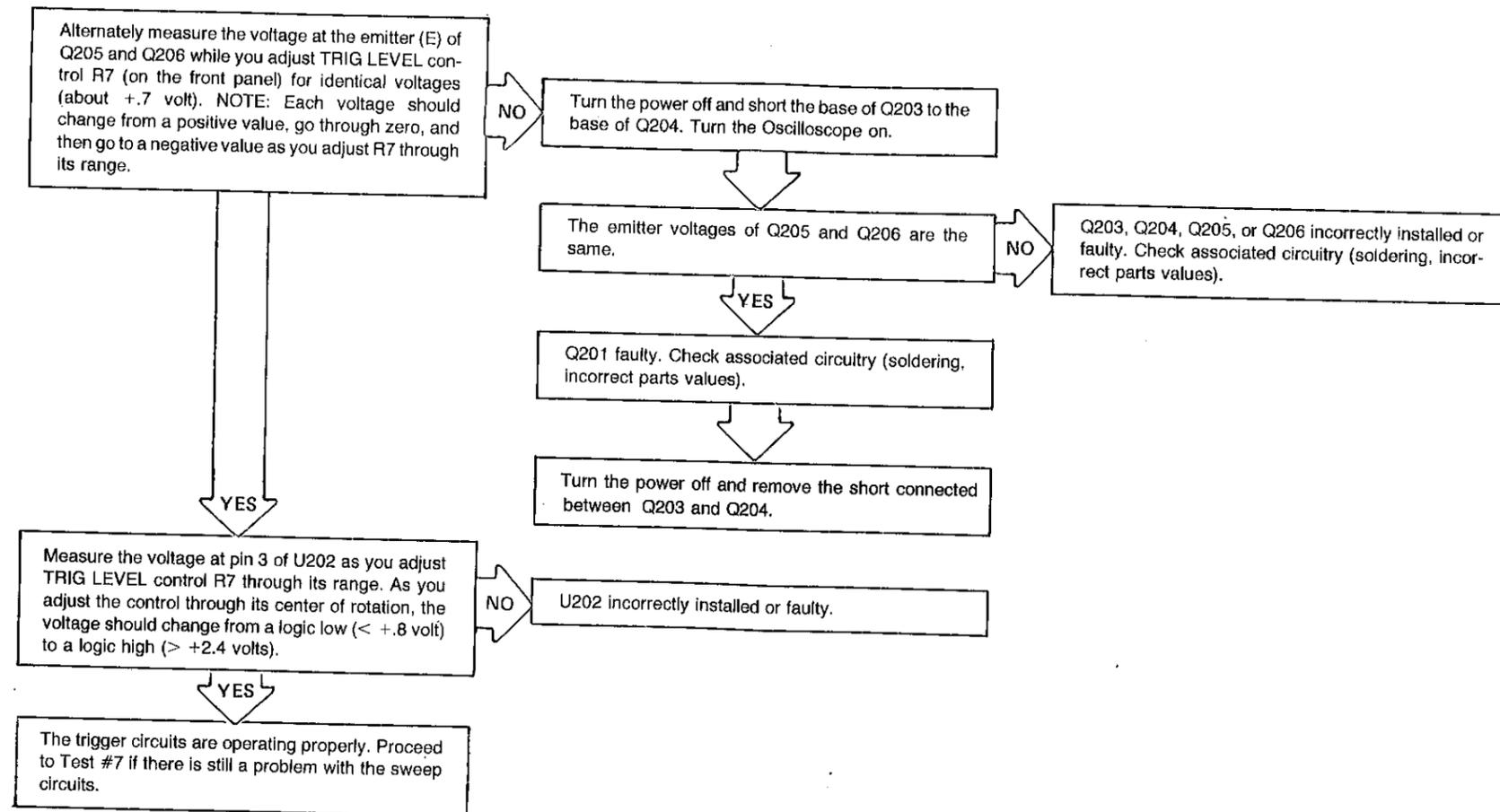


*These voltage readings depend on the setting of the INTENSITY BIAS control and can vary 40 volts.

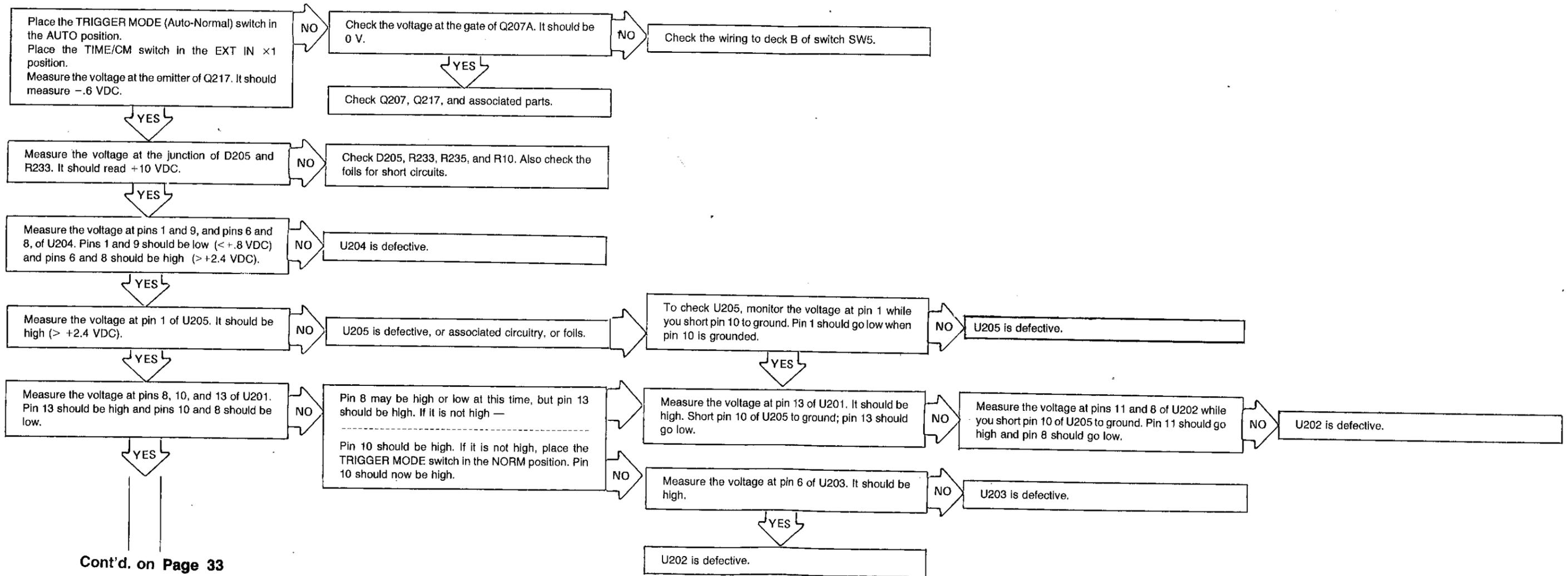
TEST #5 CRT BIAS CIRCUITS



TEST #6 TRIGGER CIRCUITS

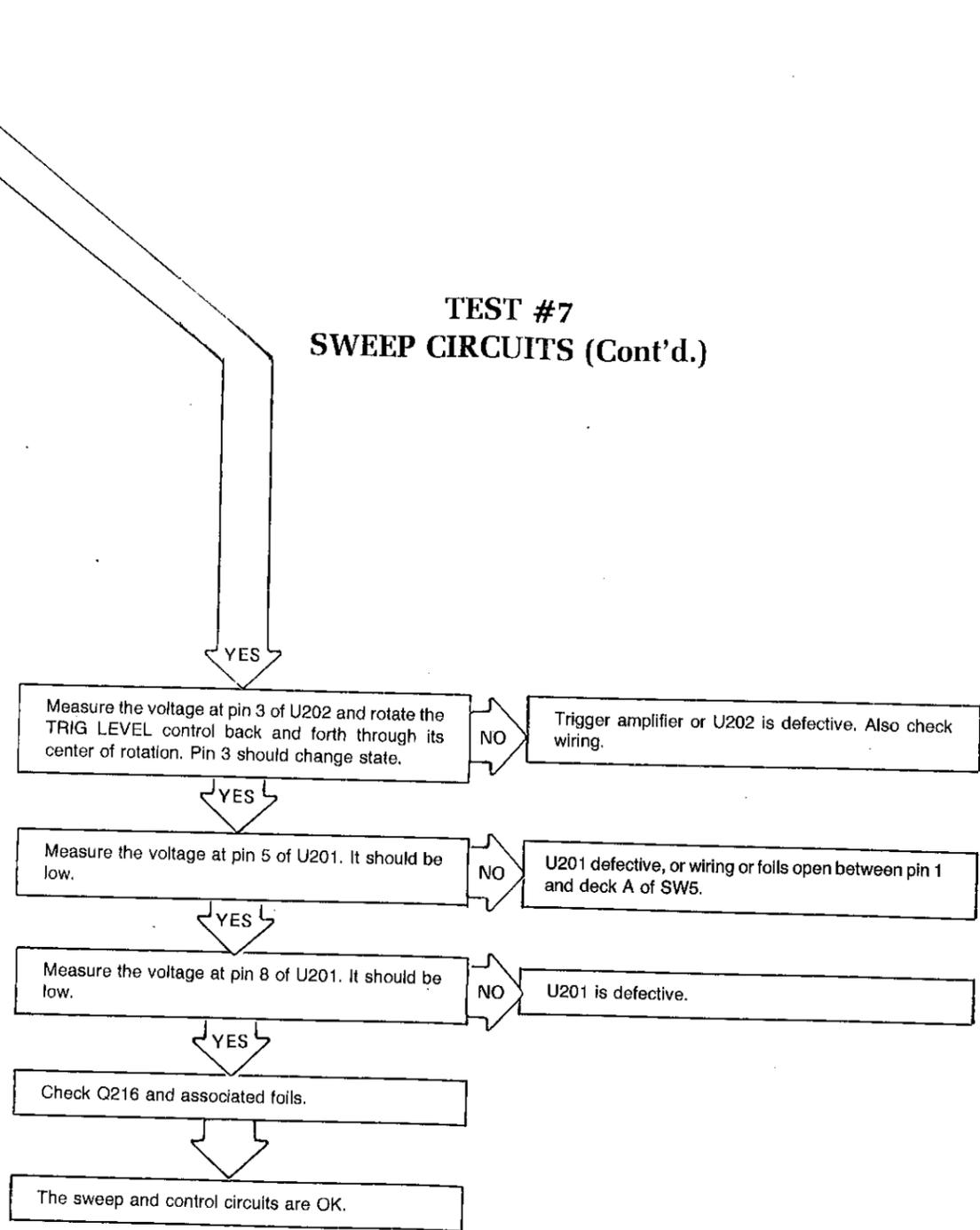


TEST #7 SWEEP CIRCUITS



Cont'd. on Page 33

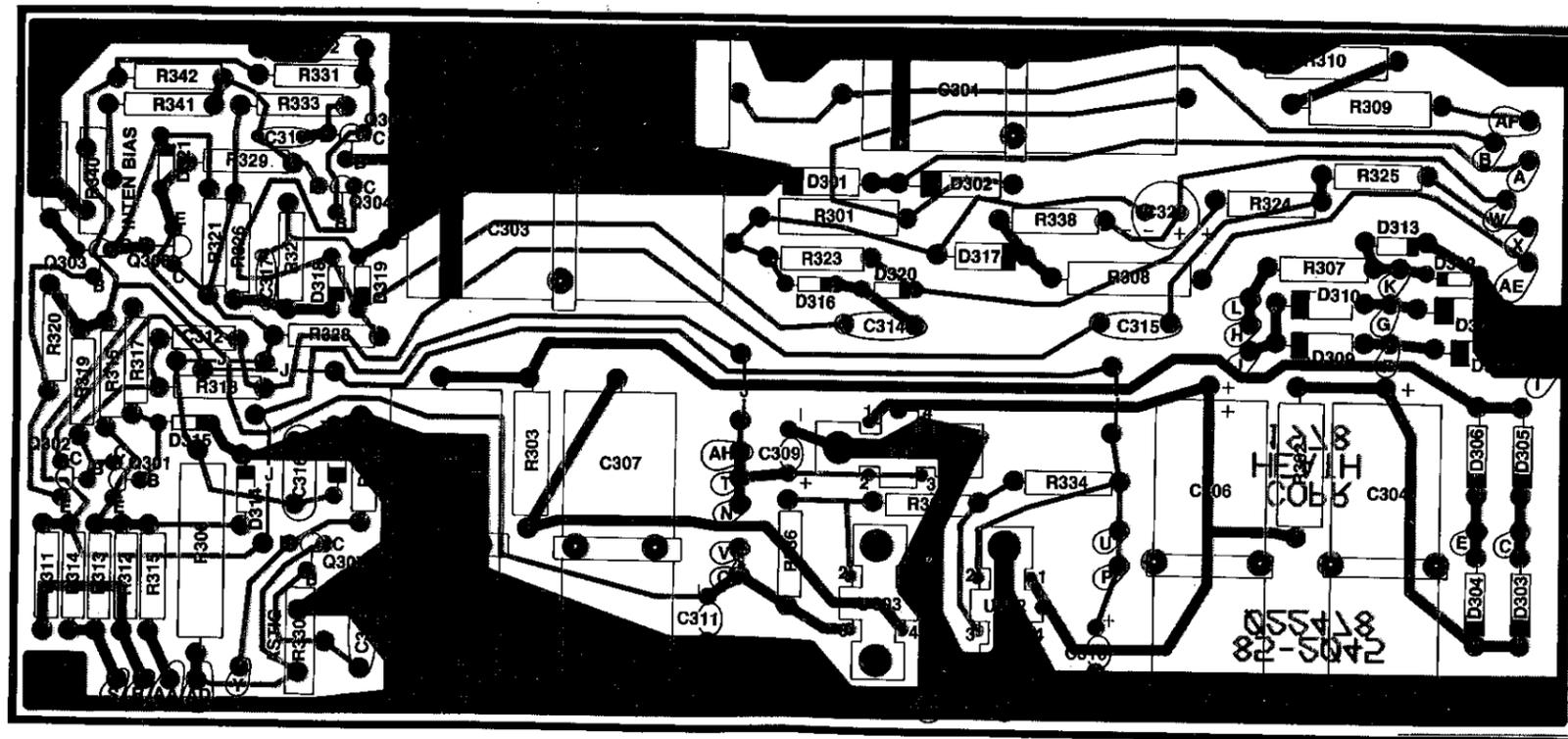
**TEST #7
SWEEP CIRCUITS (Cont'd.)**



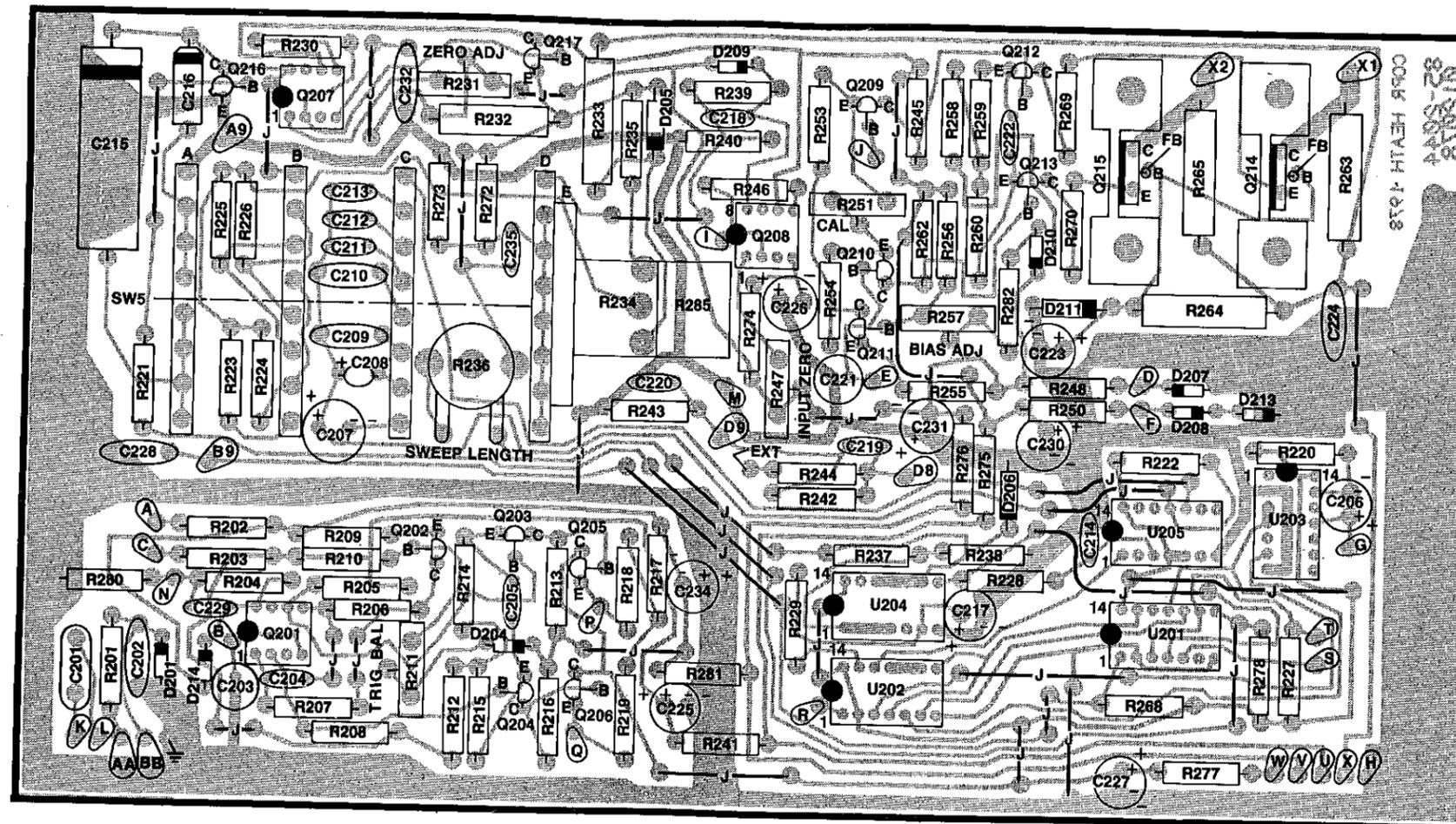
CIRCUIT BOARD X-RAY VIEWS

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

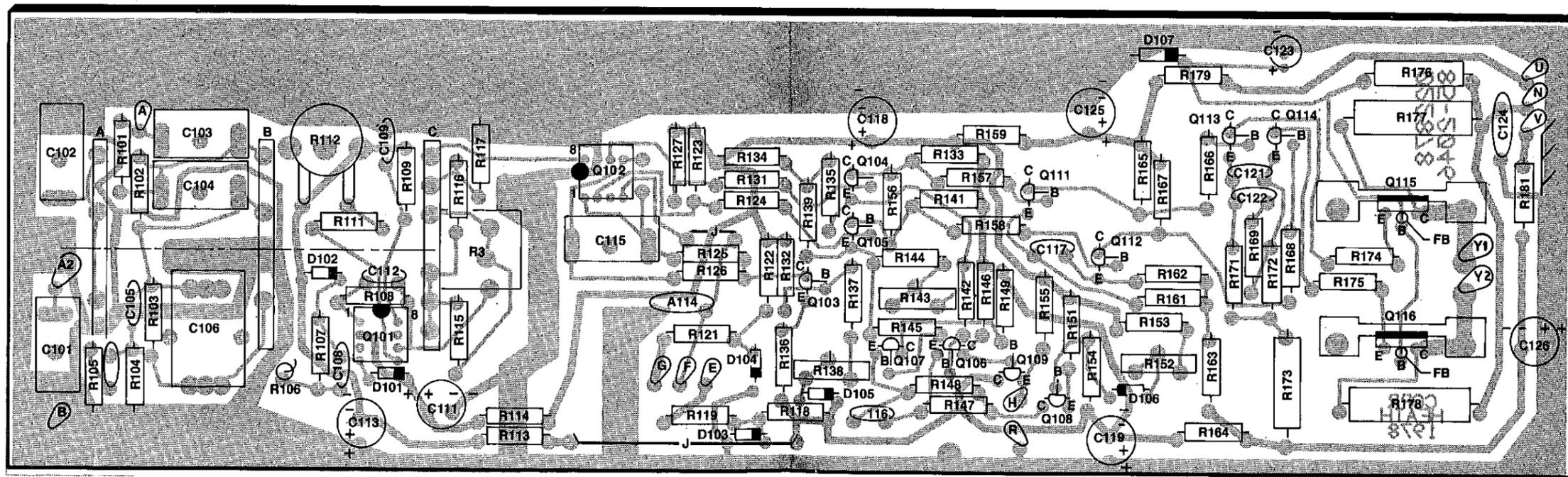
- A. Find the circuit component number (R5, C3, etc.) on the "X-Ray View."
- B. Locate this same number in the "Circuit Component Number" column of the "Parts List."
- C. Adjacent to the circuit component number, you will find the PART NUMBER AND DESCRIPTION which must be supplied when you order a replacement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



POWER SUPPLY CIRCUIT BOARD
(Viewed from component side)



HORIZONTAL CIRCUIT BOARD
 (Viewed from component side)



VERTICAL CIRCUIT BOARD
(Shown from component side)