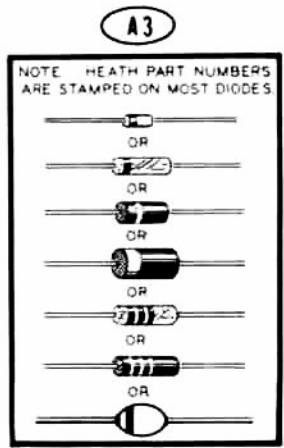
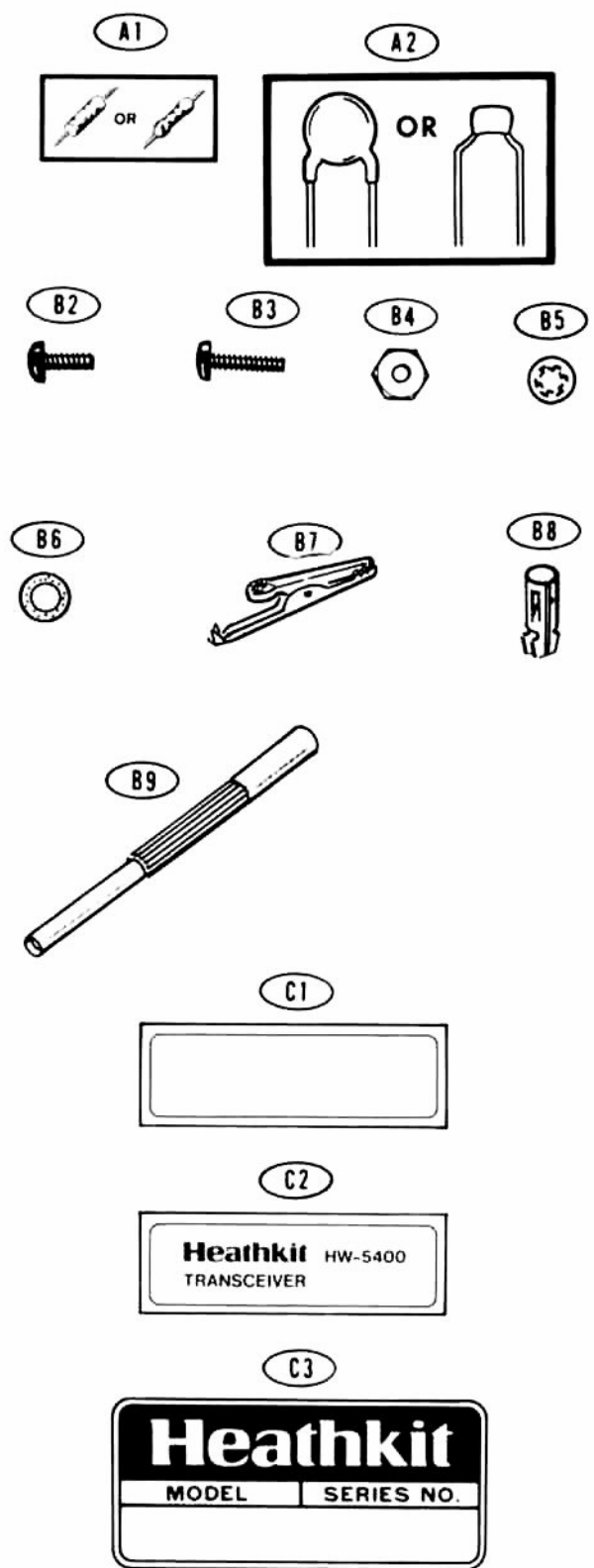


# ILLUSTRATION BOOKLET

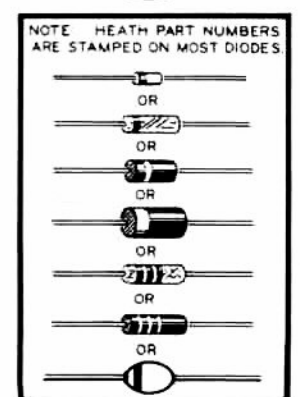
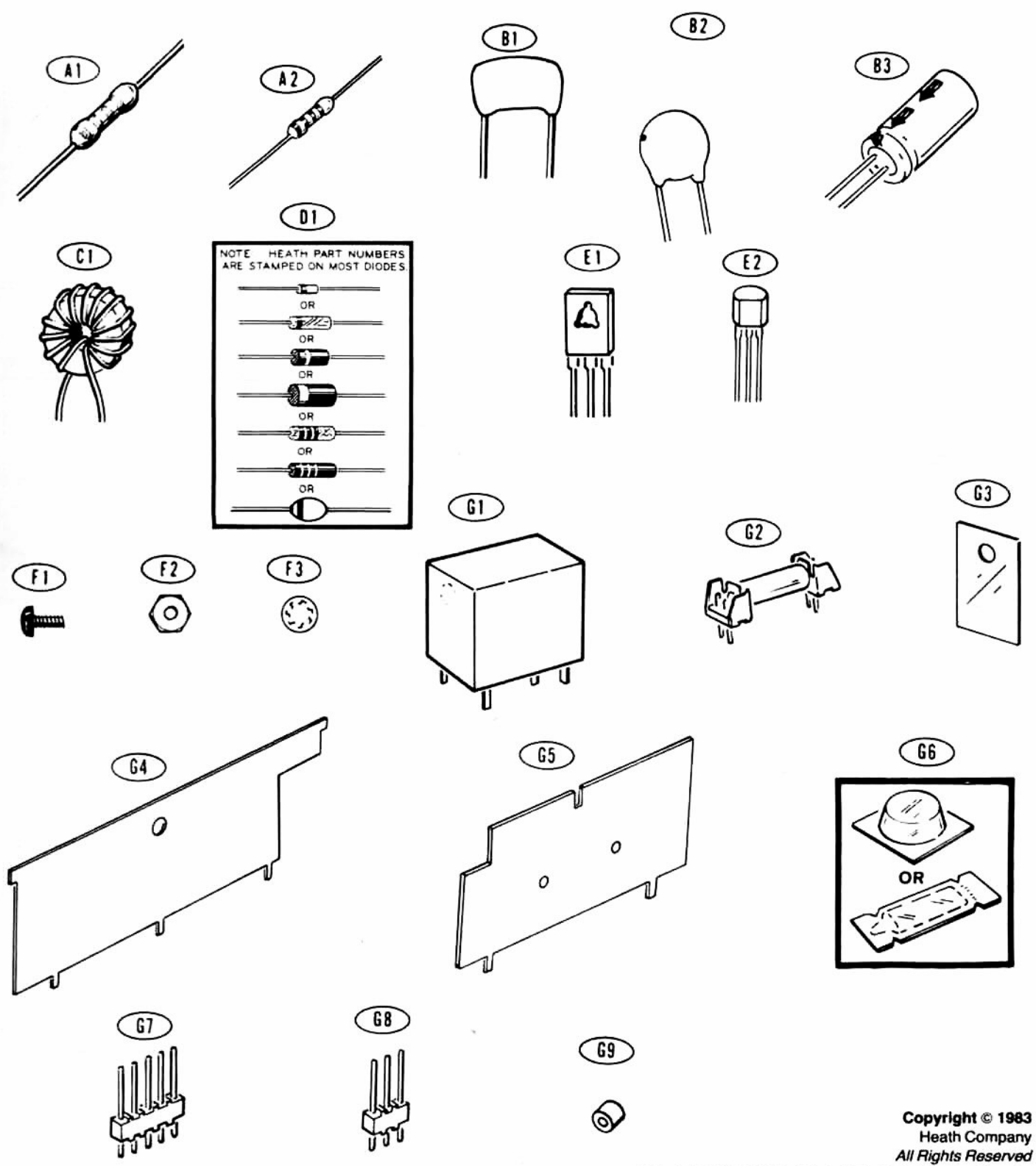
Part of 595-2891-02



## SHAFT ENCODER & RF PROBE CIRCUIT BOARD PARTS PICTORIAL

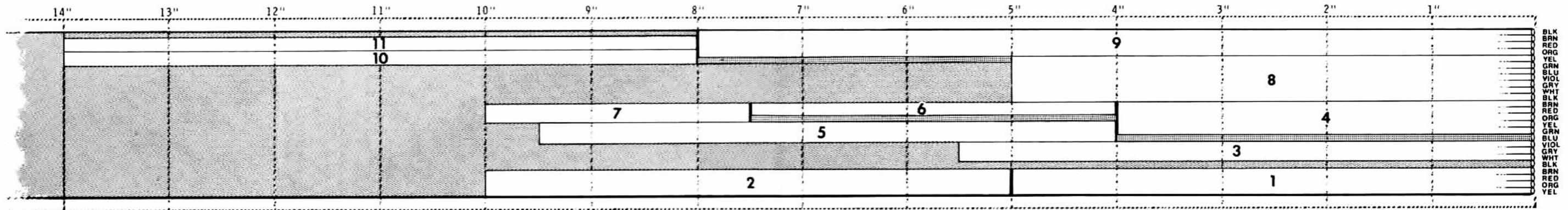


390-2363	P1105	P905	P902	1	P914	10
INVR.	P905	P1105				
13.8V	P101	P107	P1103	1		
12V	P102	P406	P907	P917		
20V	P103	P801	P909	P918		
C352	P104	P802	P911	P919	P702	
C355	P105	P904	P914	P1102		
C358	P106	P906	P916	P1107		
C362	P201	P552	P804	P1101	15	1
L352	P402	P554	P903	P1104		
HI V.C.O.	P404	P703	P913	P1106	P204	
LOW V.C.O.	P405	P803	P915	P1103		10
C302	P401	P409	P553	P905		
C305					P205	
C309	P403	P410	P651	P908		10
L302						
C128	P407	P411	P701	P912		
L105					P901	
L102						
C103	P408	P551	P805	P412		10

## FILTER CIRCUIT BOARD PARTS PICTORIAL



 SEPARATE FOR SINGLE WIRES.  
 CUT OFF THROW AWAY.

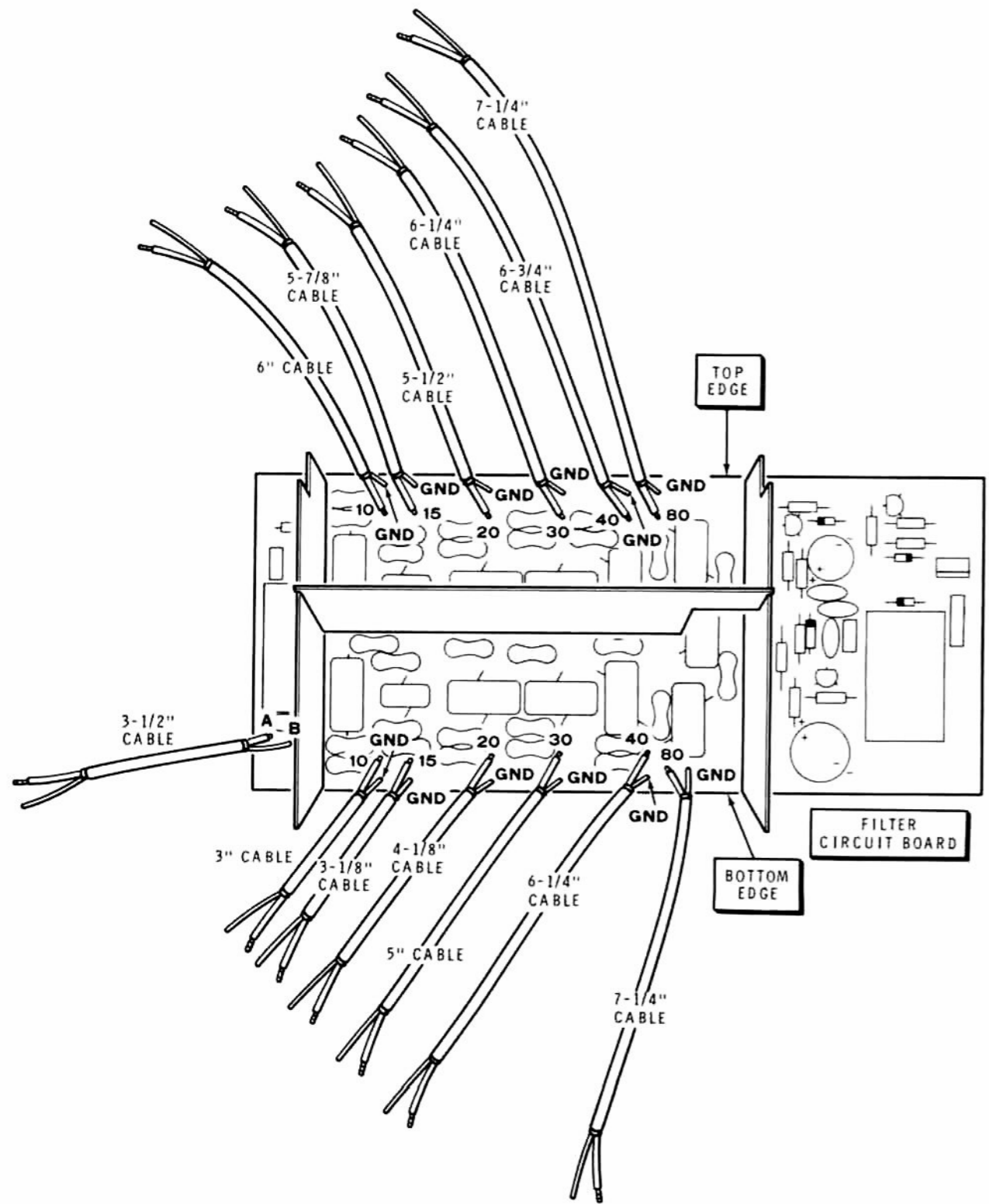


NOTES:

1. POSITION THE 25-WIRE CABLE AS SHOWN WITH THE YELLOW WIRE DOWN.
2. CUT THE 2-, 3-, 4-, 5-, AND 7-WIRE CABLE GROUPS FROM THE 25-WIRE CABLE AS SHOWN. START WITH CABLE #1, AT THE LOWER RIGHT END OF THE CABLE, AND CUT EACH CABLE GROUP IN THE ORDER SHOWN.
3. WHEN YOU ARE FINISHED, YOU SHOULD HAVE THE FOLLOWING CABLE GROUPS:

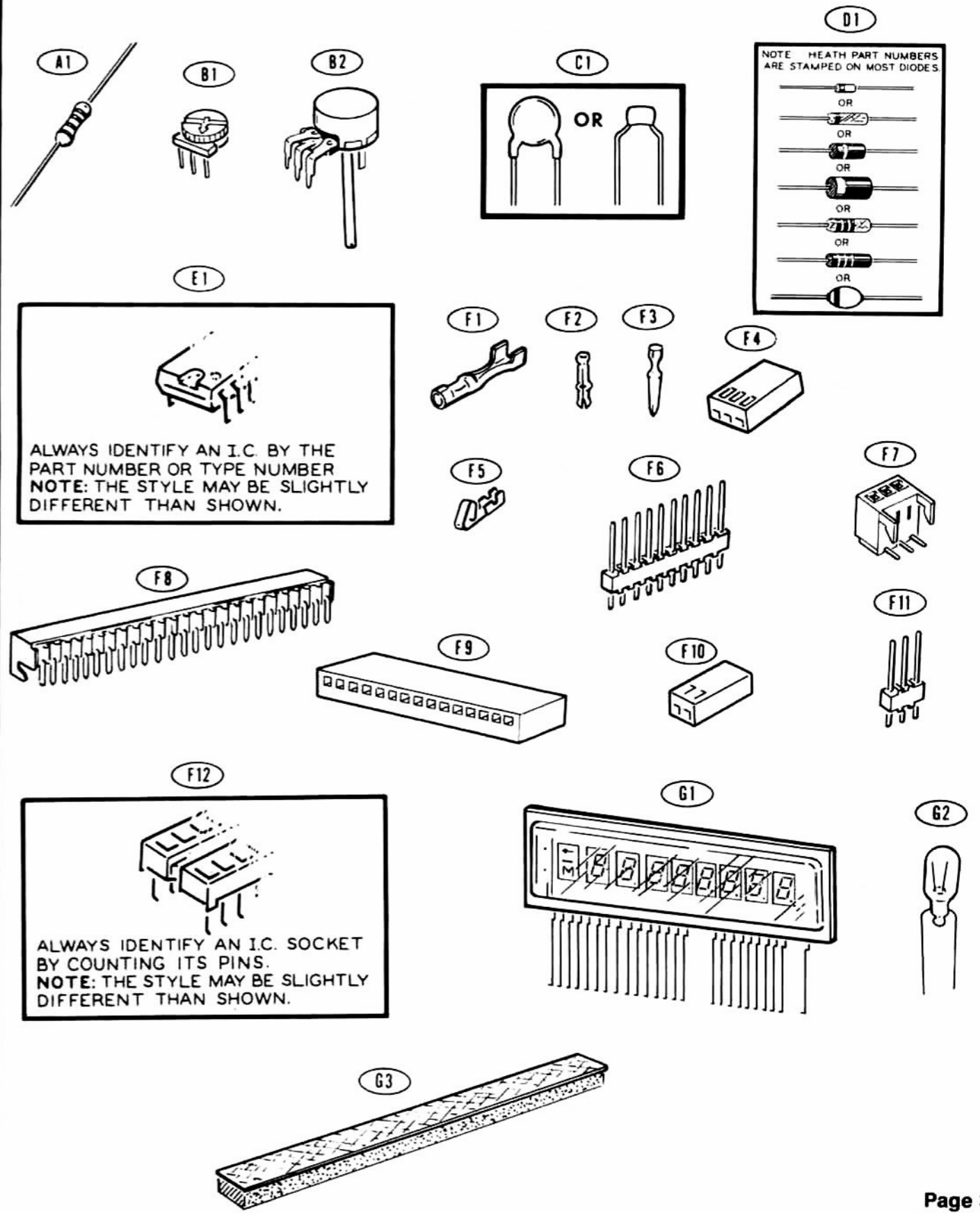
GROUP	TYPE	LENGTH	COLORS
1	4-WIRE	5"	BRN-RED-ORG-YEL
2	4-WIRE	5"	BRN-RED-ORG-YEL
3	3-WIRE	5-1/2"	VIOL-GRY-WHT
4	5-WIRE	4"	BRN-RED-ORG-YEL-GRN
5	3-WIRE	5-1/2"	YEL-GRN-BLU
6	2-WIRE	3-1/2"	BRN-RED
7	3-WIRE	2-1/2"	BRN-RED-ORG
8	7-WIRE	5"	YEL-GRN-BLU-VIOL-GRY-WHT-BLK
9	4-WIRE	8"	BLK-BRN-RED-ORG
10	2-WIRE	6"	ORG-YEL
11	2-WIRE	6"	BRN-RED

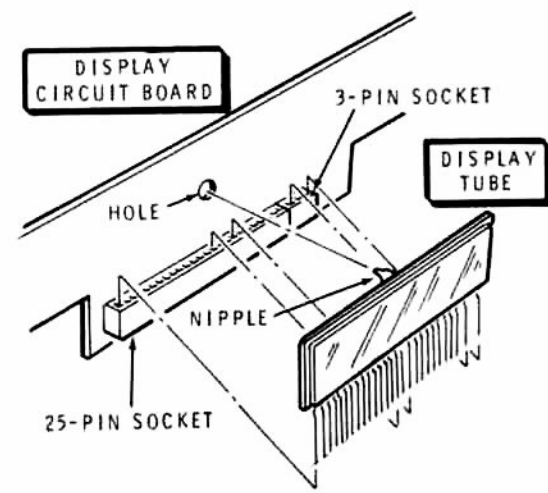
Detail 1-4A



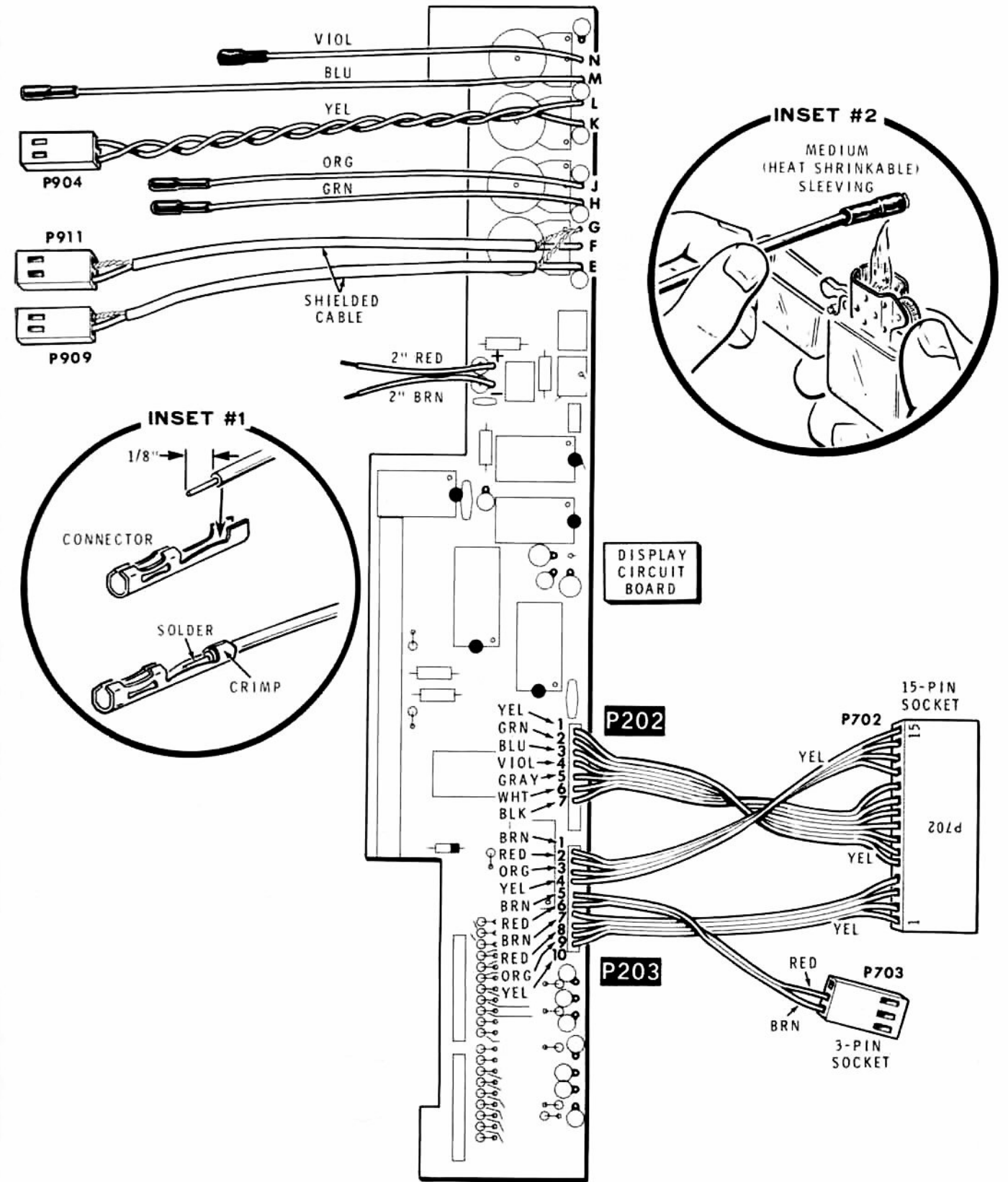
PICTORIAL 2-7

### DISPLAY CIRCUIT BOARD PARTS PICTORIAL



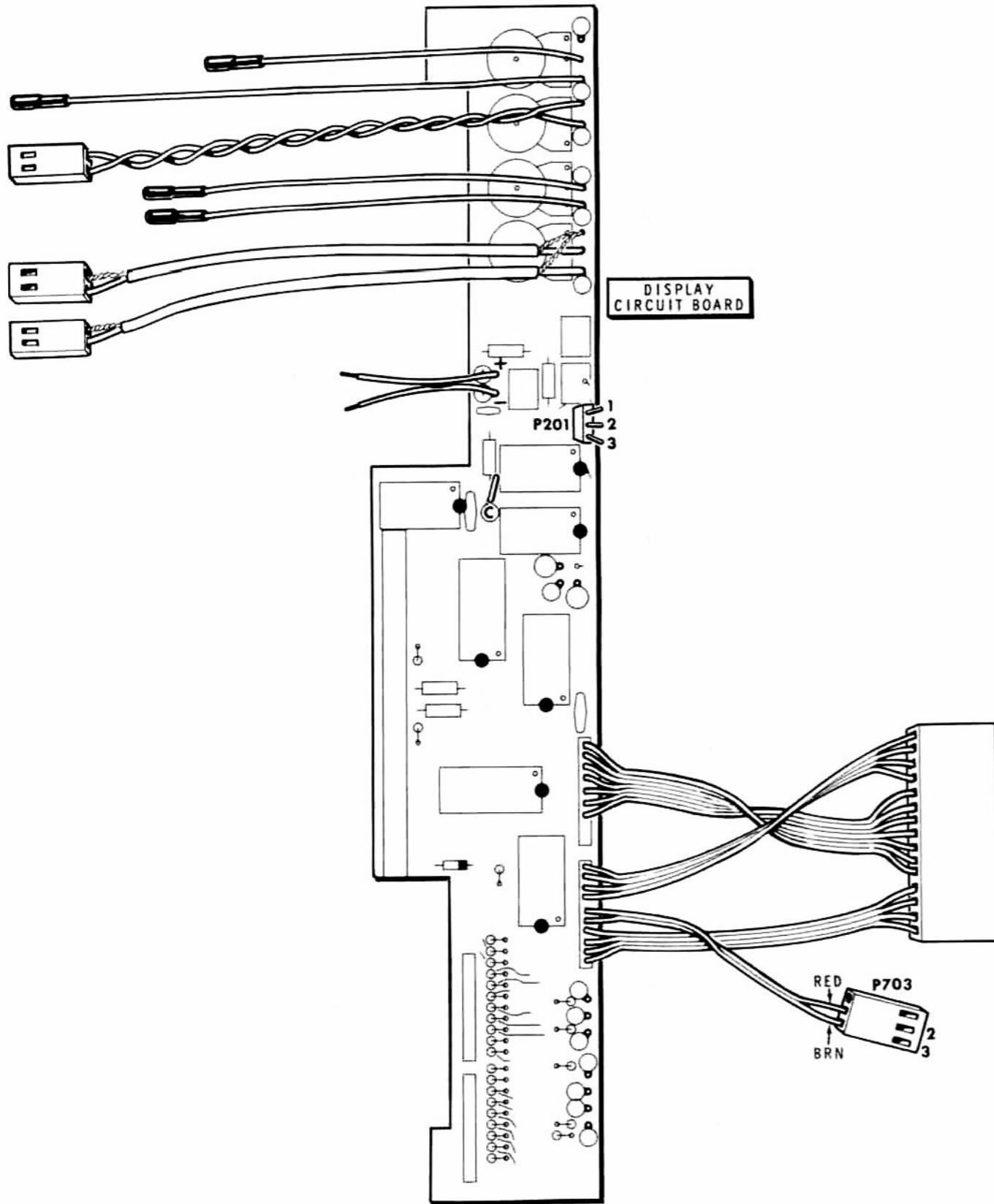


Detail 3-5A



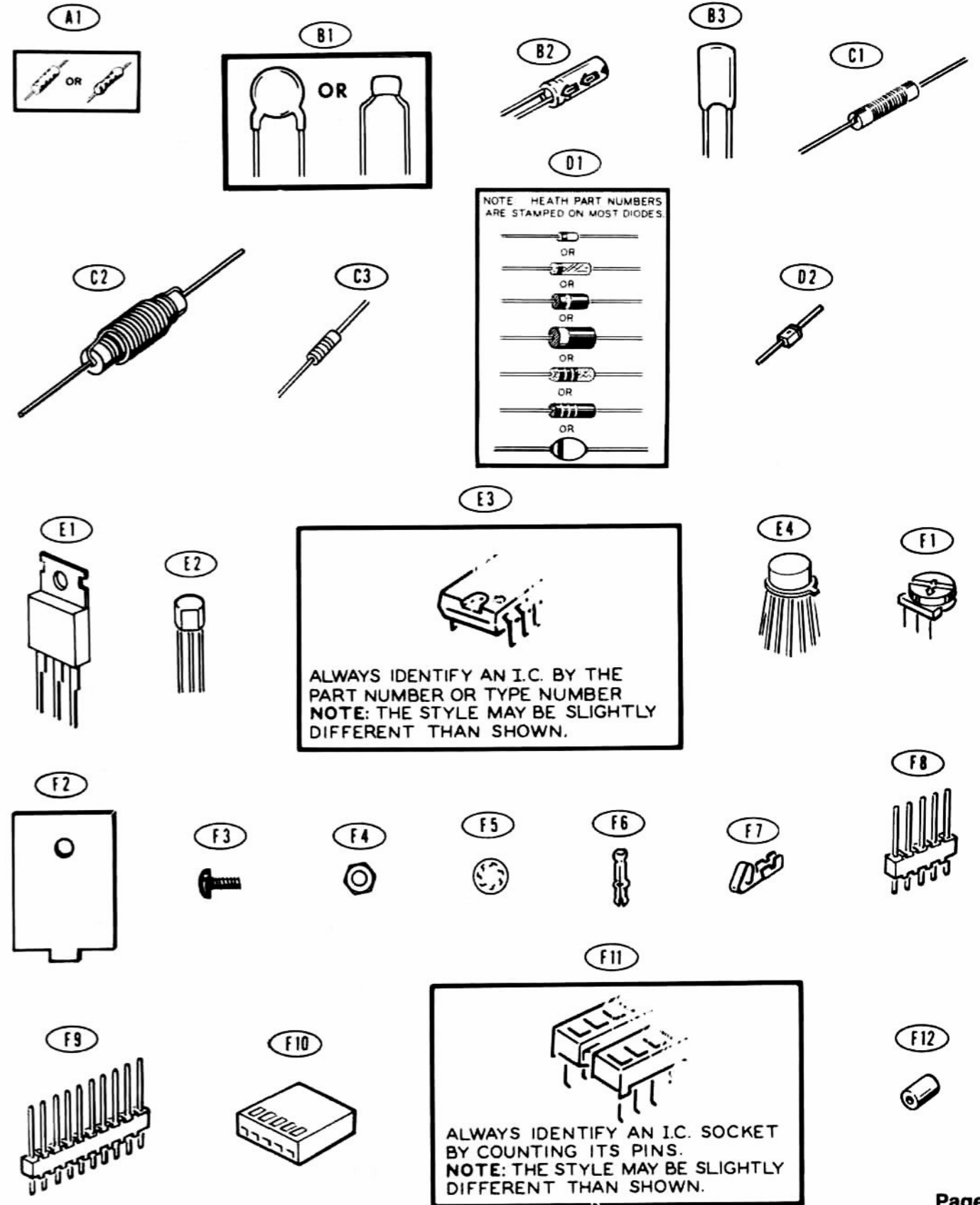
PICTORIAL 3-8



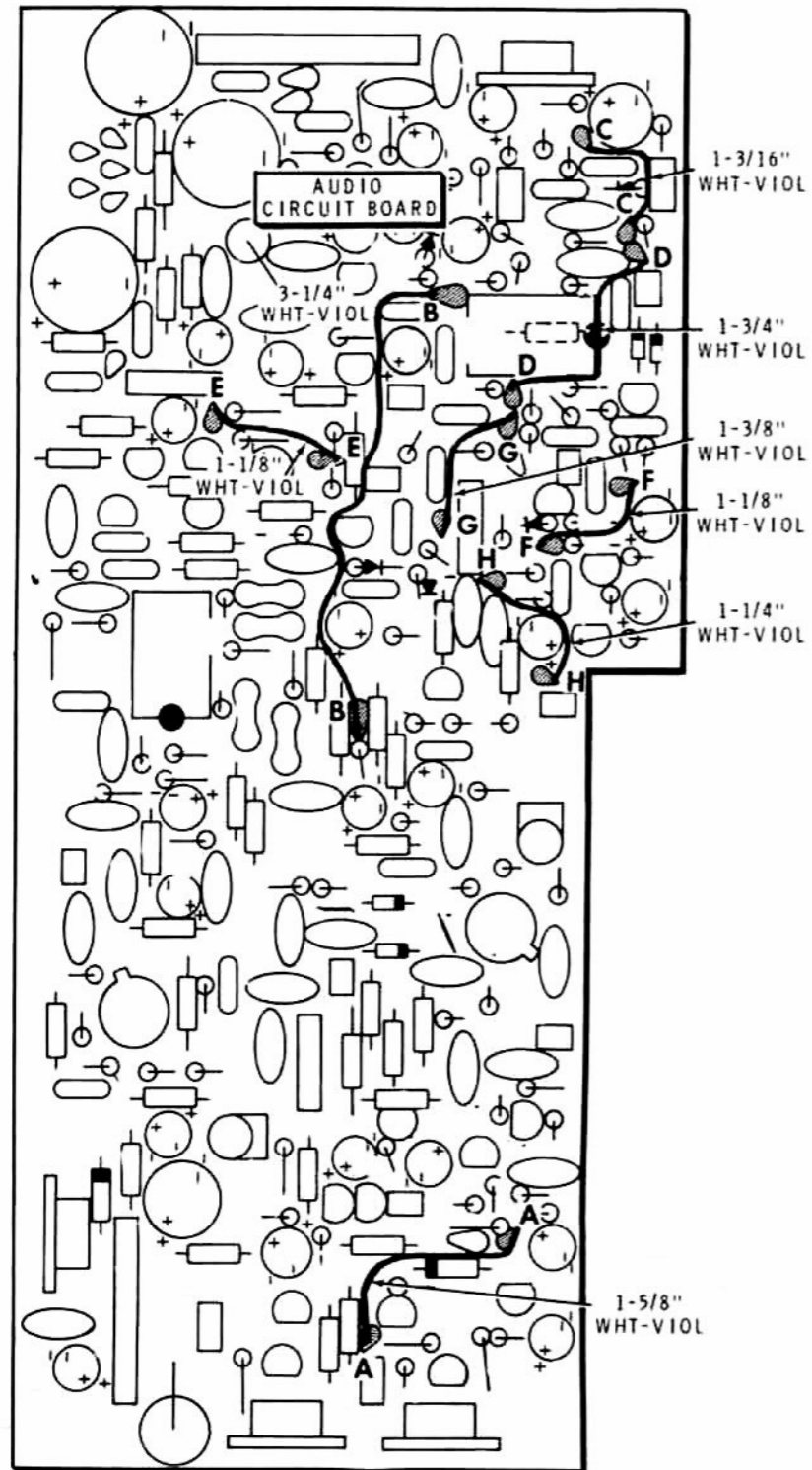


PICTORIAL 3-10

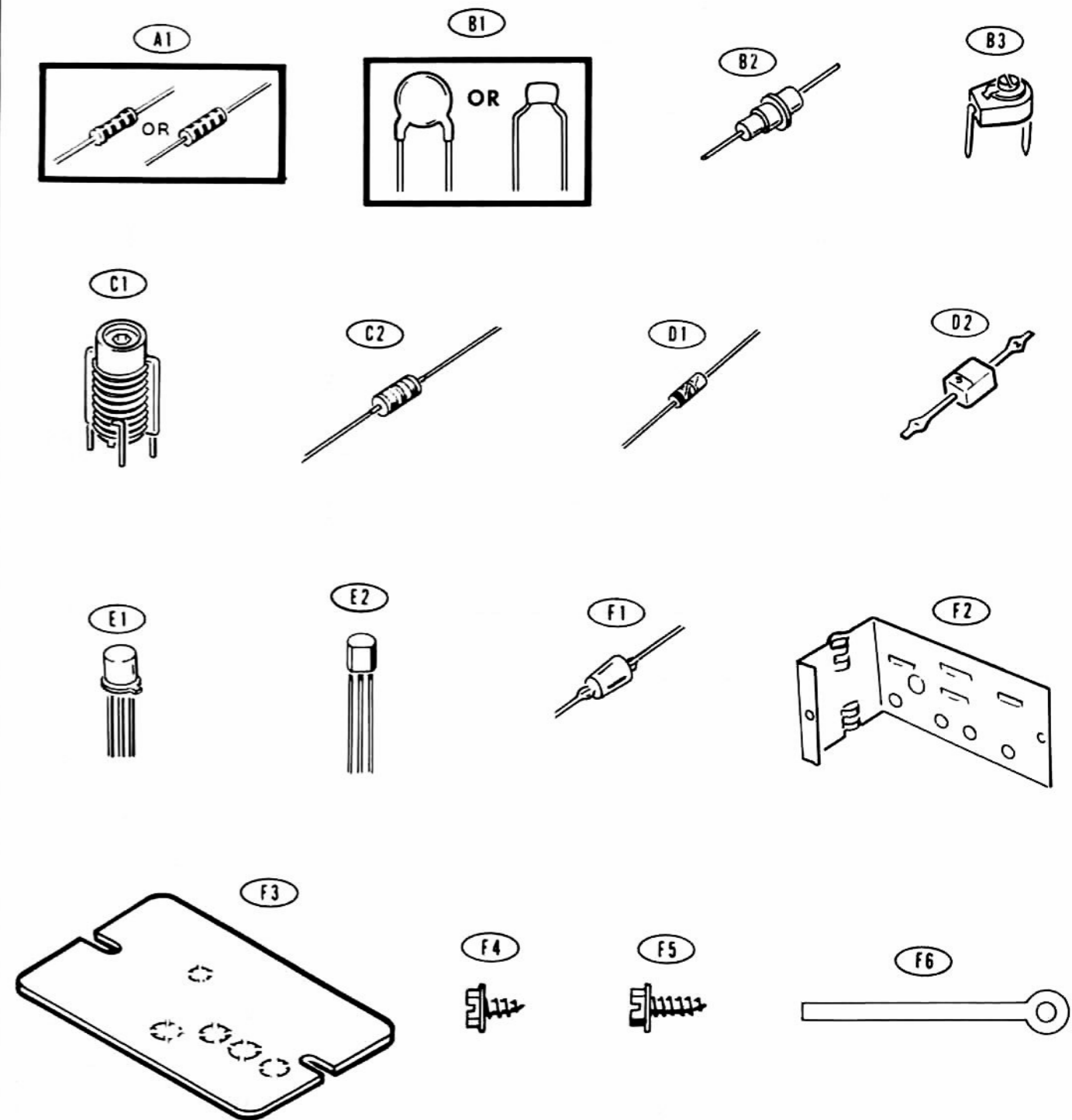
## AUDIO CIRCUIT BOARD



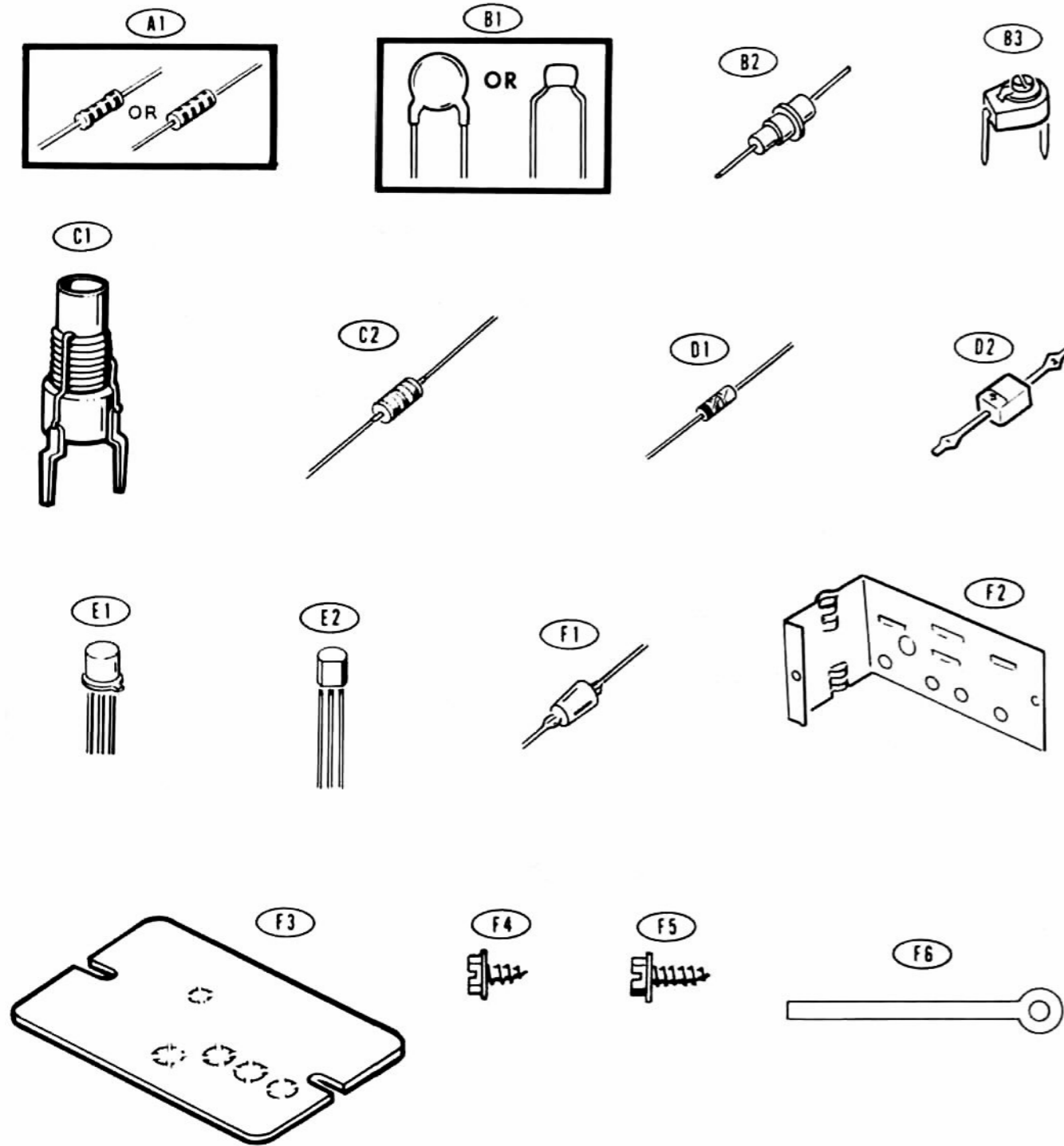
### HIGH VCO ASSEMBLY



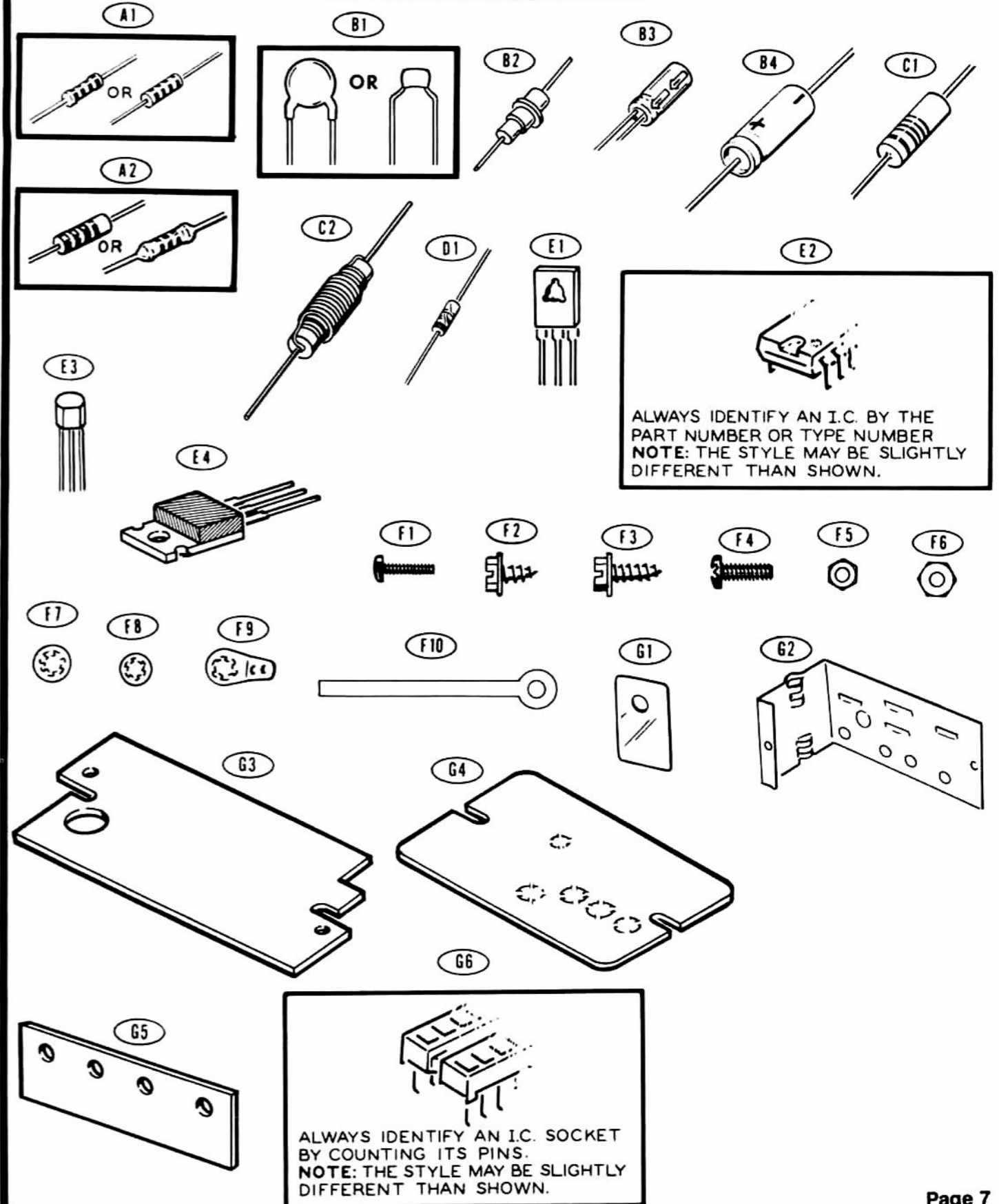
PICTORIAL 4-14



## LOW VCO ASSEMBLY




## INVERTER ASSEMBLY



IF CIRCUIT BOARD

**INSET #1**

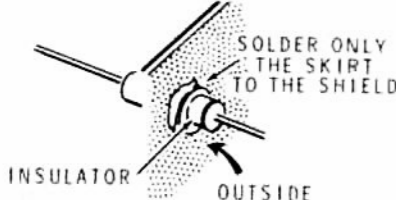
A. USE A PENCIL ERASER TO CLEAN THE OUTSIDE SURFACE AROUND HOLES C513, C514, AND C515.



CLEAN AROUND THE HOLE

OUTSIDE

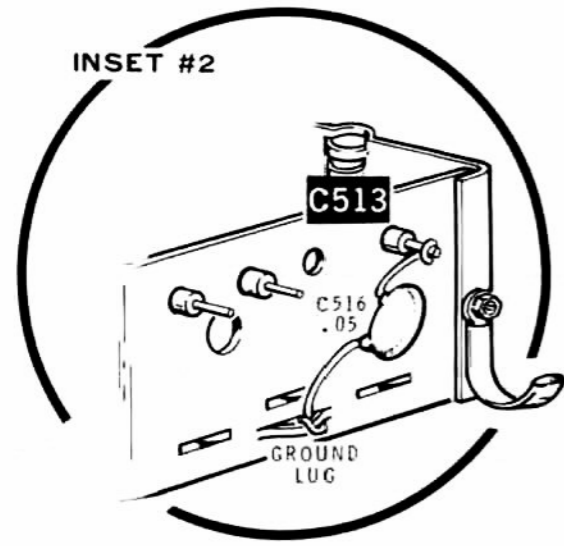
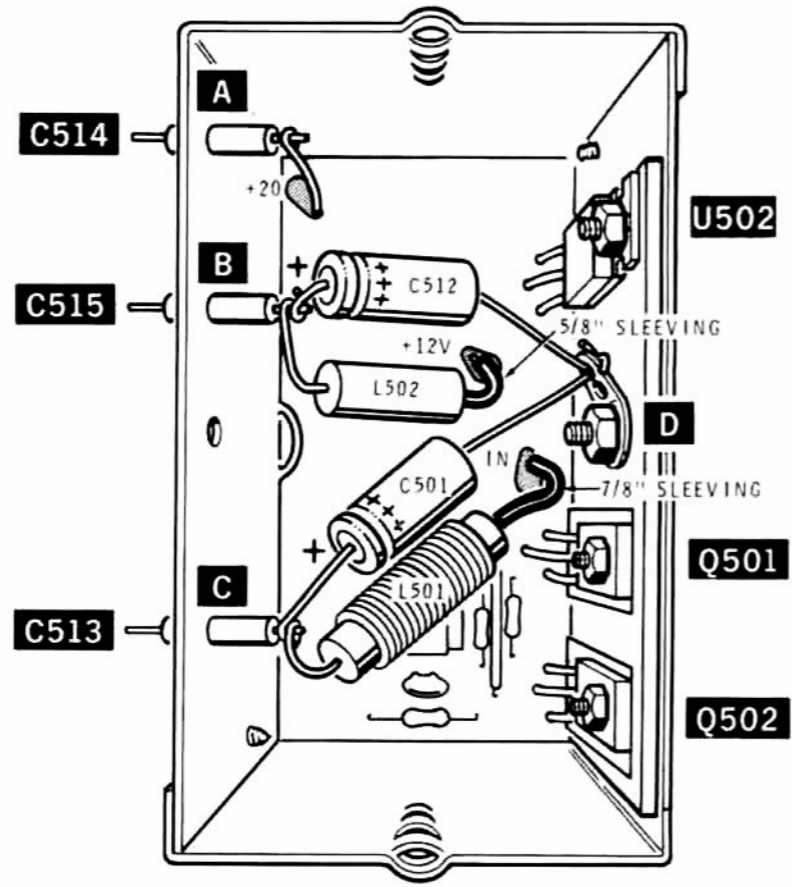
B. INSERT THE LONGEST END OF THE CAPACITOR INTO THE HOLE AND SOLDER THE ENTIRE SKIRT TO THE CHASSIS. DO NOT BRIDGE SOLDER ACROSS THE INSULATOR.



SOLDER ONLY THE SKIRT TO THE SHIELD

INSULATOR

OUTSIDE



PICTORIAL 7-5

**A1**

OR

**B1**

OR

**B2**

**C1**

**C2**

**C3**

**D1**

**D2**

**D3**

ALWAYS IDENTIFY AN I.C. BY THE PART NUMBER OR TYPE NUMBER  
NOTE: THE STYLE MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

**E1**

**E2**

NOTE: HEATH PART NUMBERS ARE STAMPED ON MOST DIODES.

OR

OR

OR

OR

OR

OR

OR

OR

**E3**

**E4**

OR

**E5**

**E6**

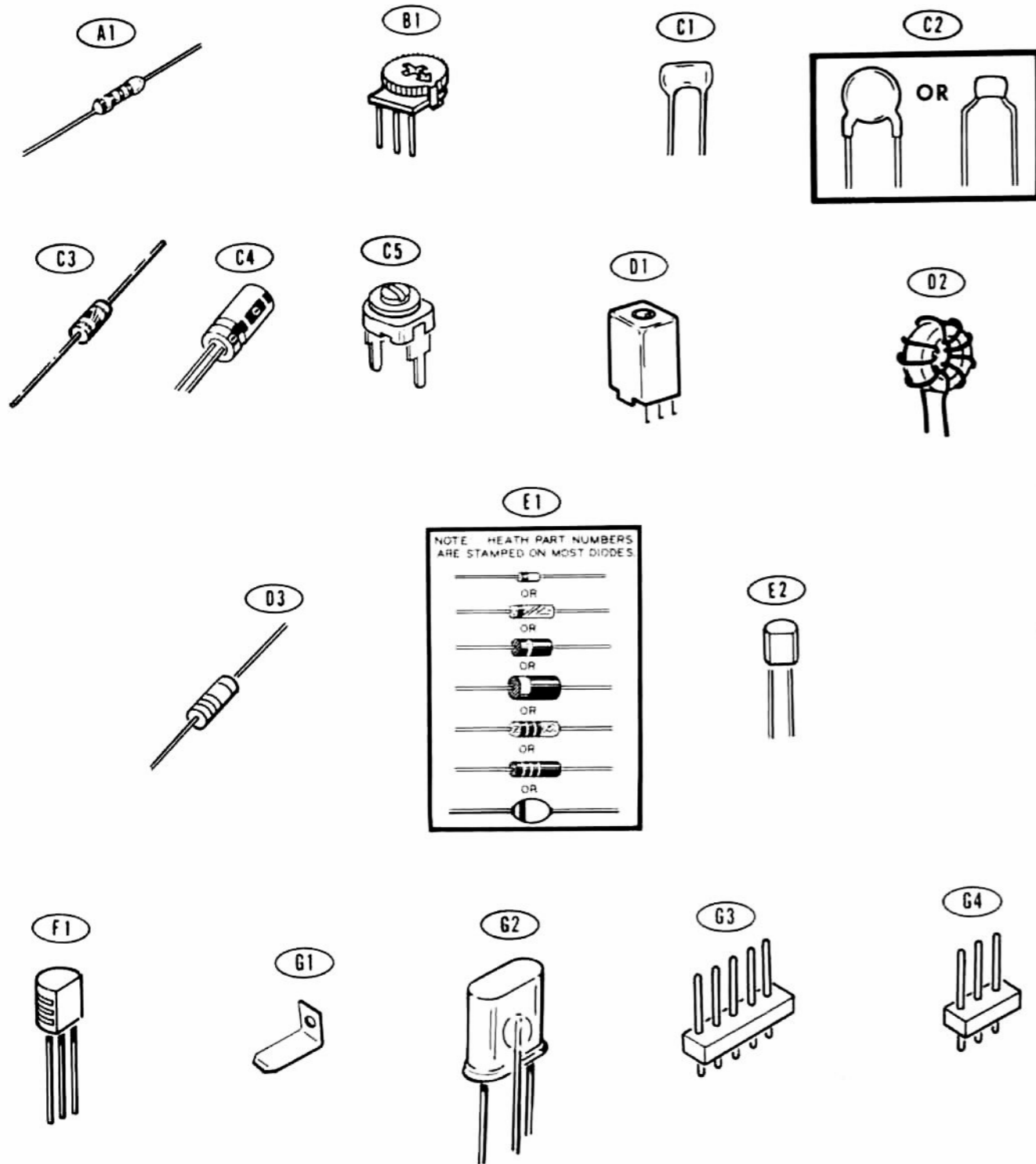
**E7**

**E8**

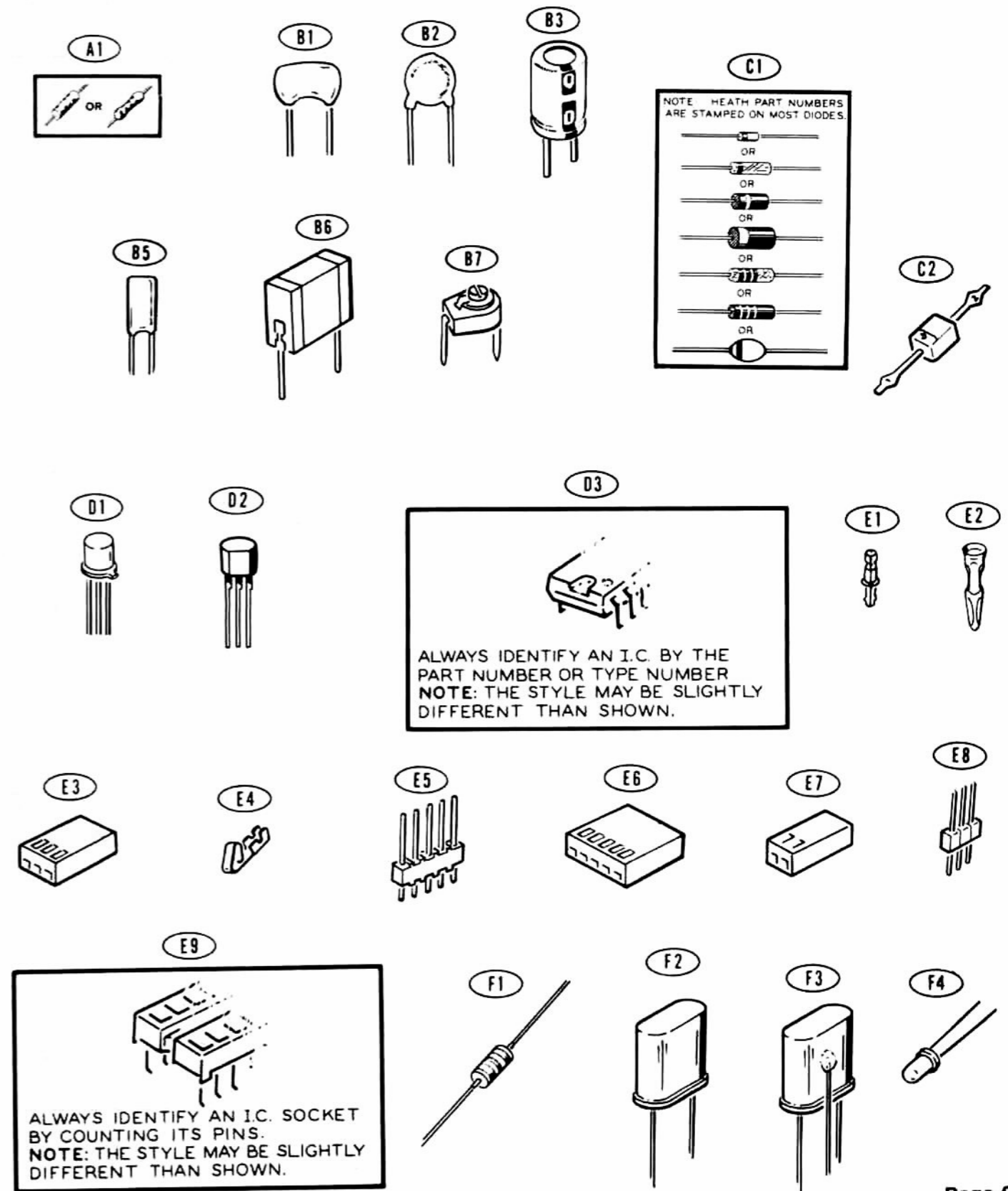
ALWAYS IDENTIFY AN I.C. SOCKET BY COUNTING ITS PINS.  
NOTE: THE STYLE MAY BE SLIGHTLY DIFFERENT THAN SHOWN.

**E9**

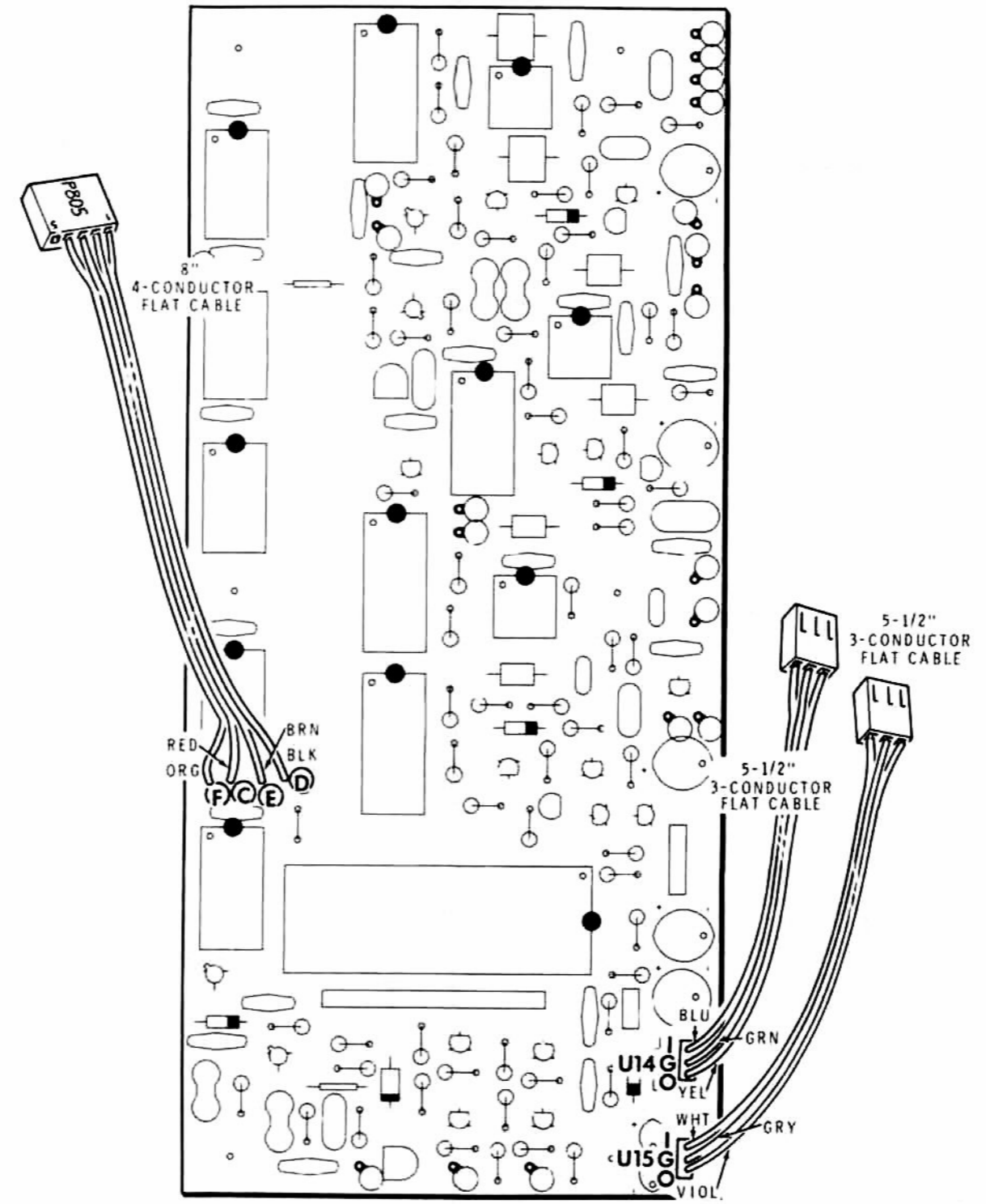
## BFO CIRCUIT BOARD



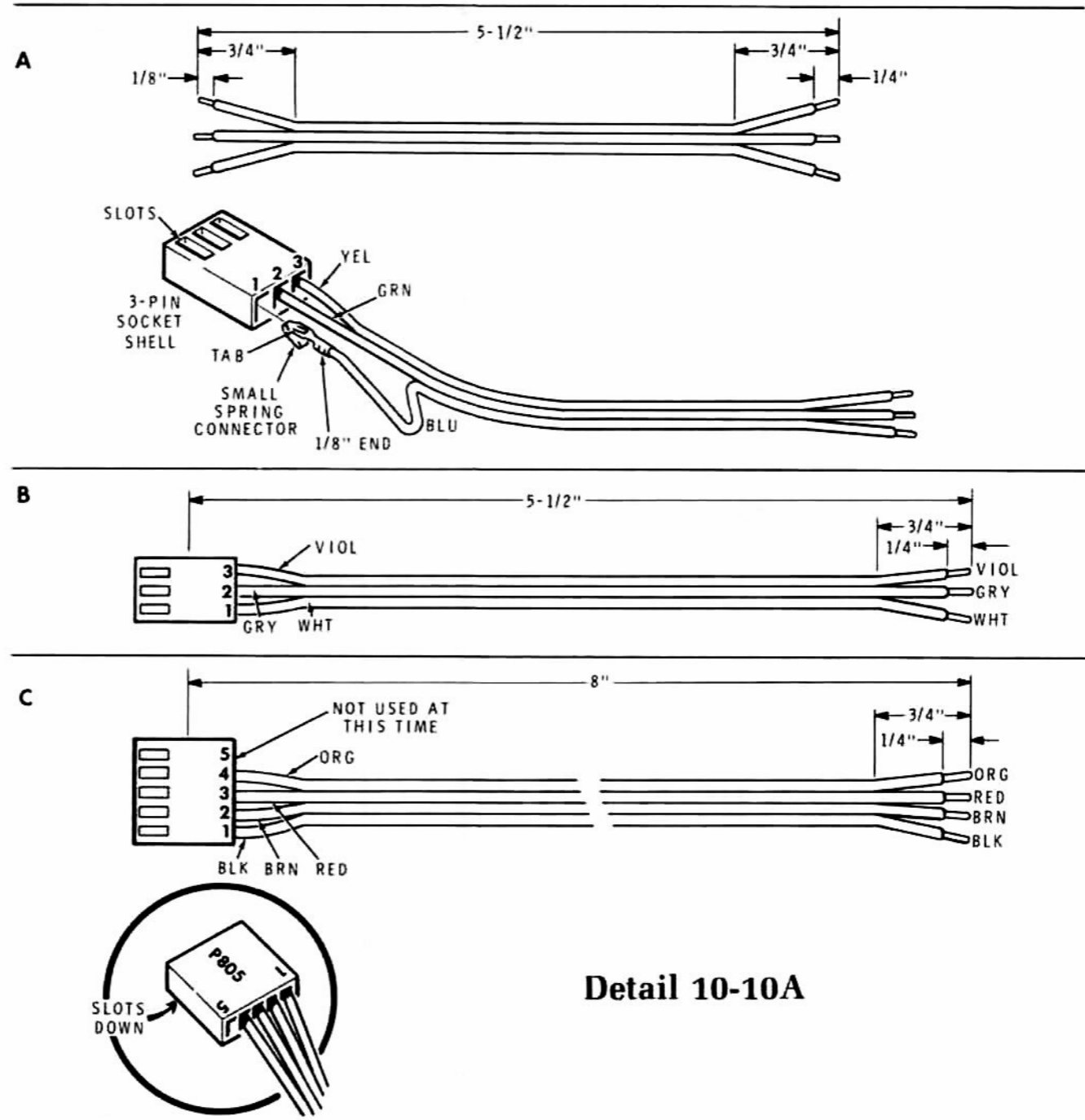
## CONTROLLER CIRCUIT BOARD



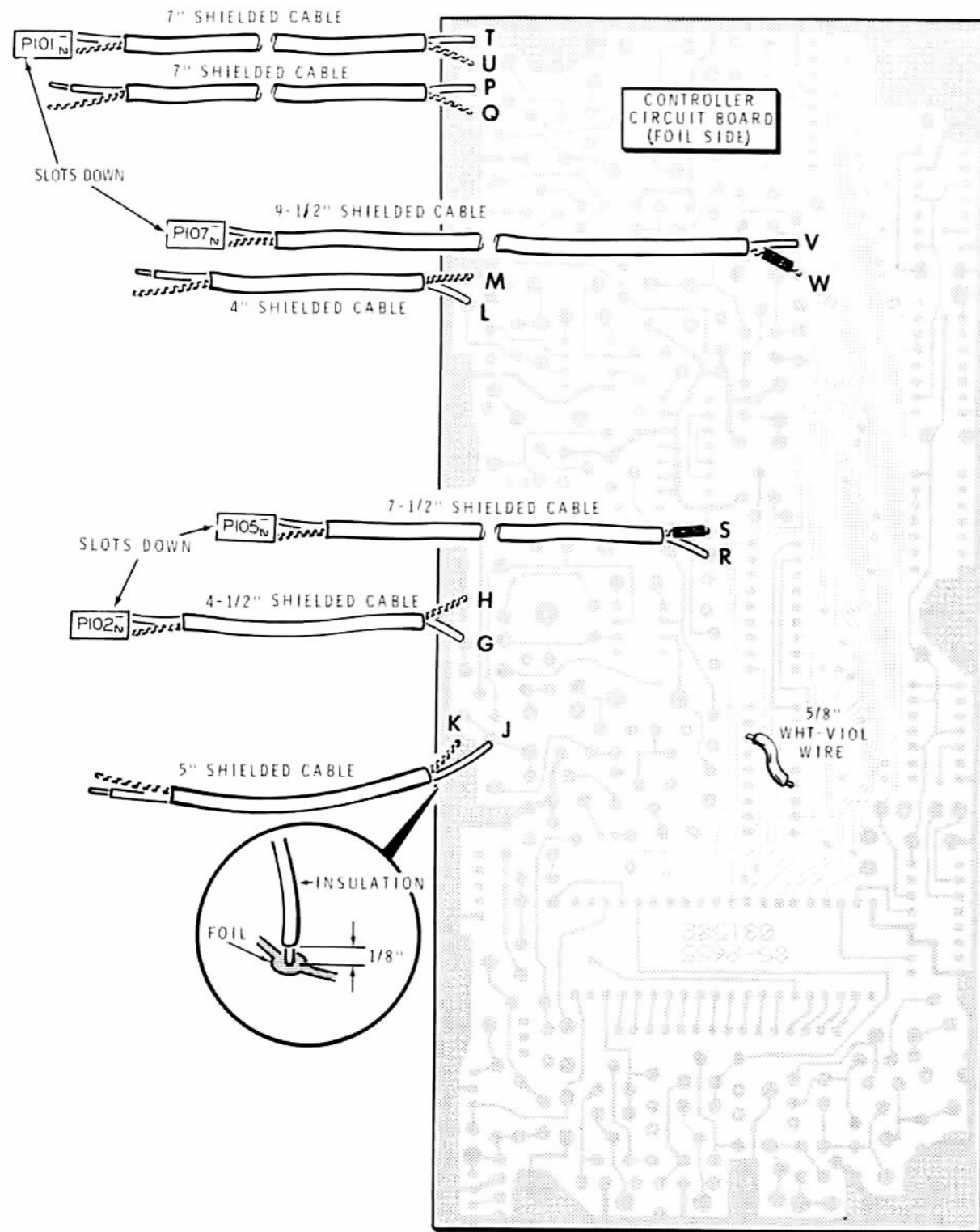




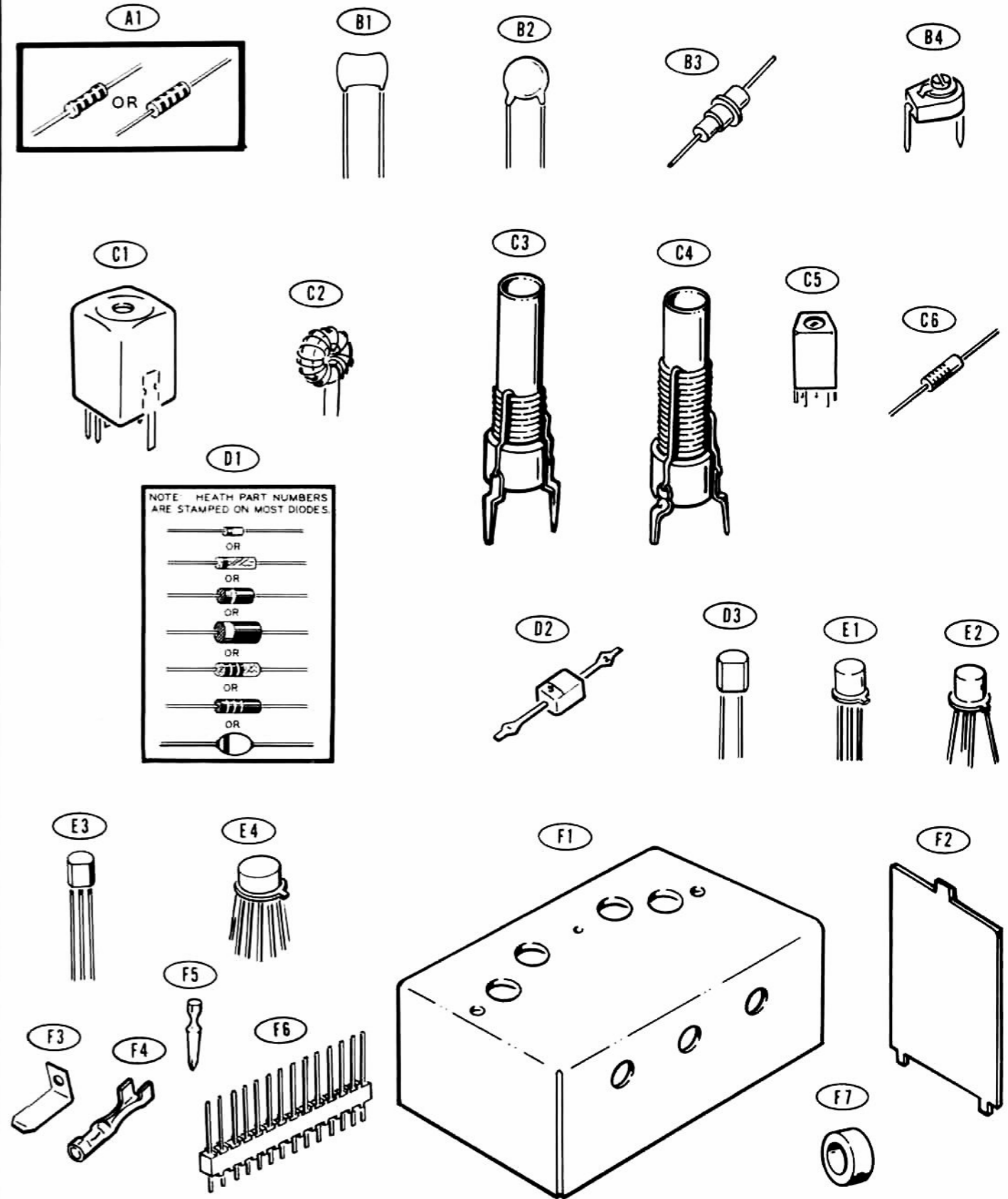
PICTORIAL 10-10



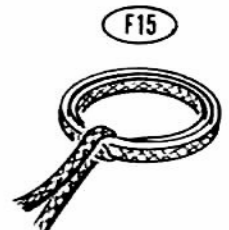
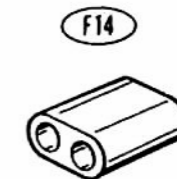
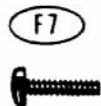
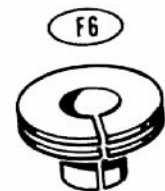
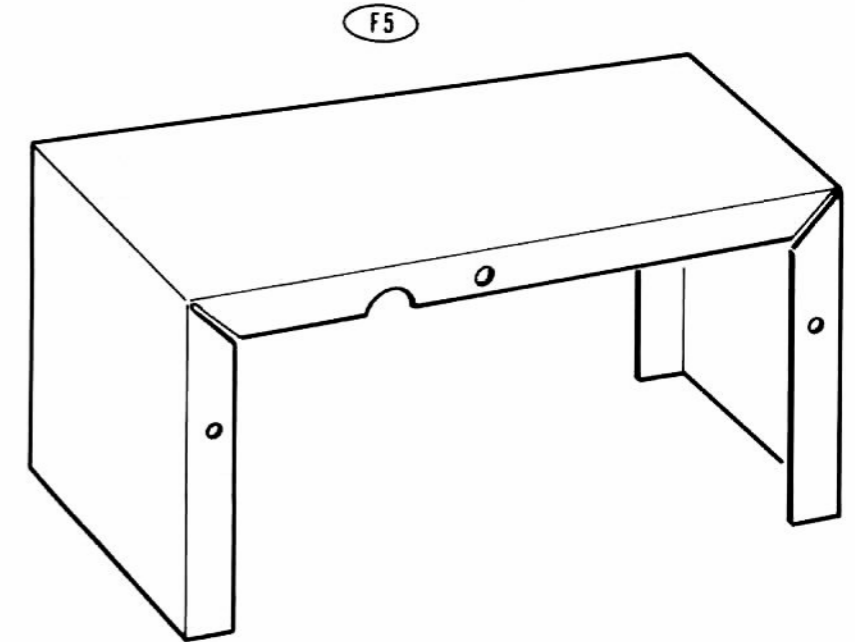
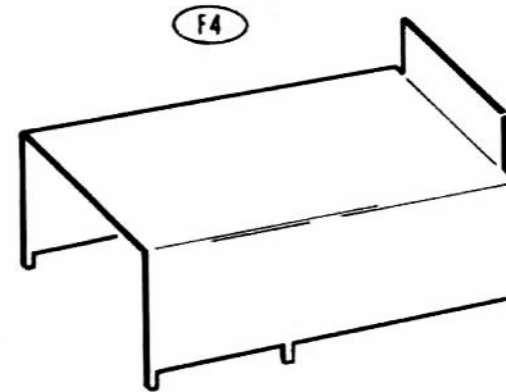
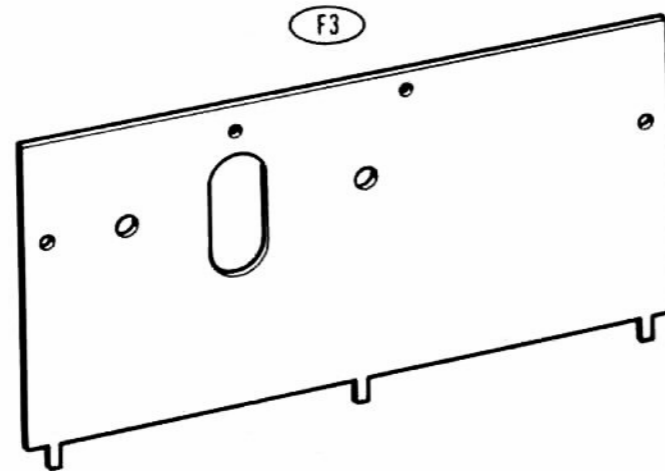
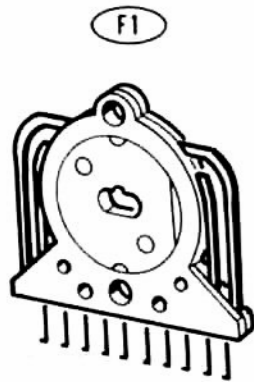
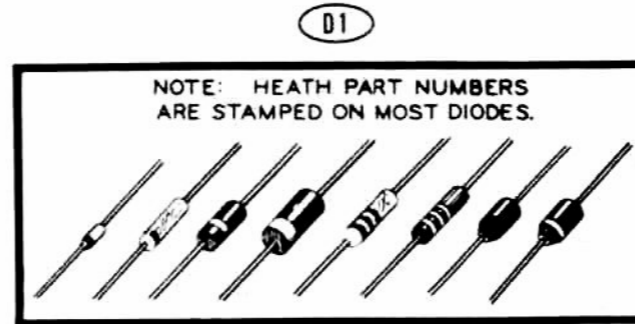
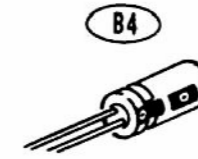
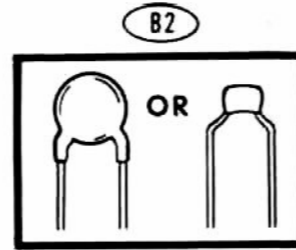
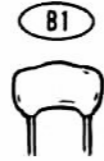
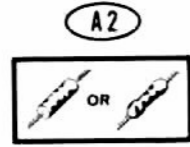
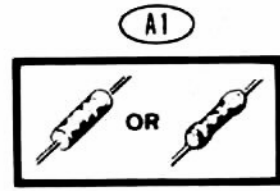
**Detail 10-10A**

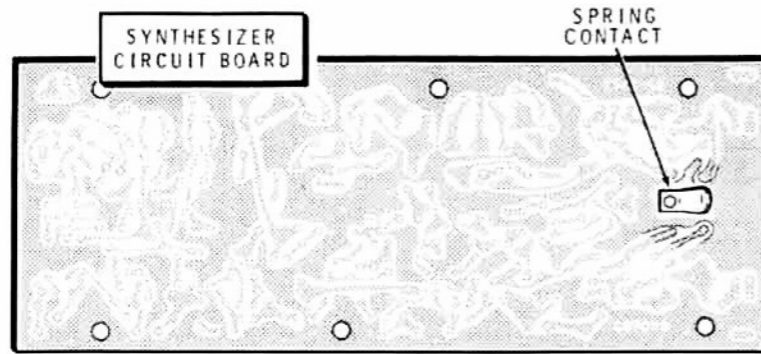


PICTORIAL 10-11

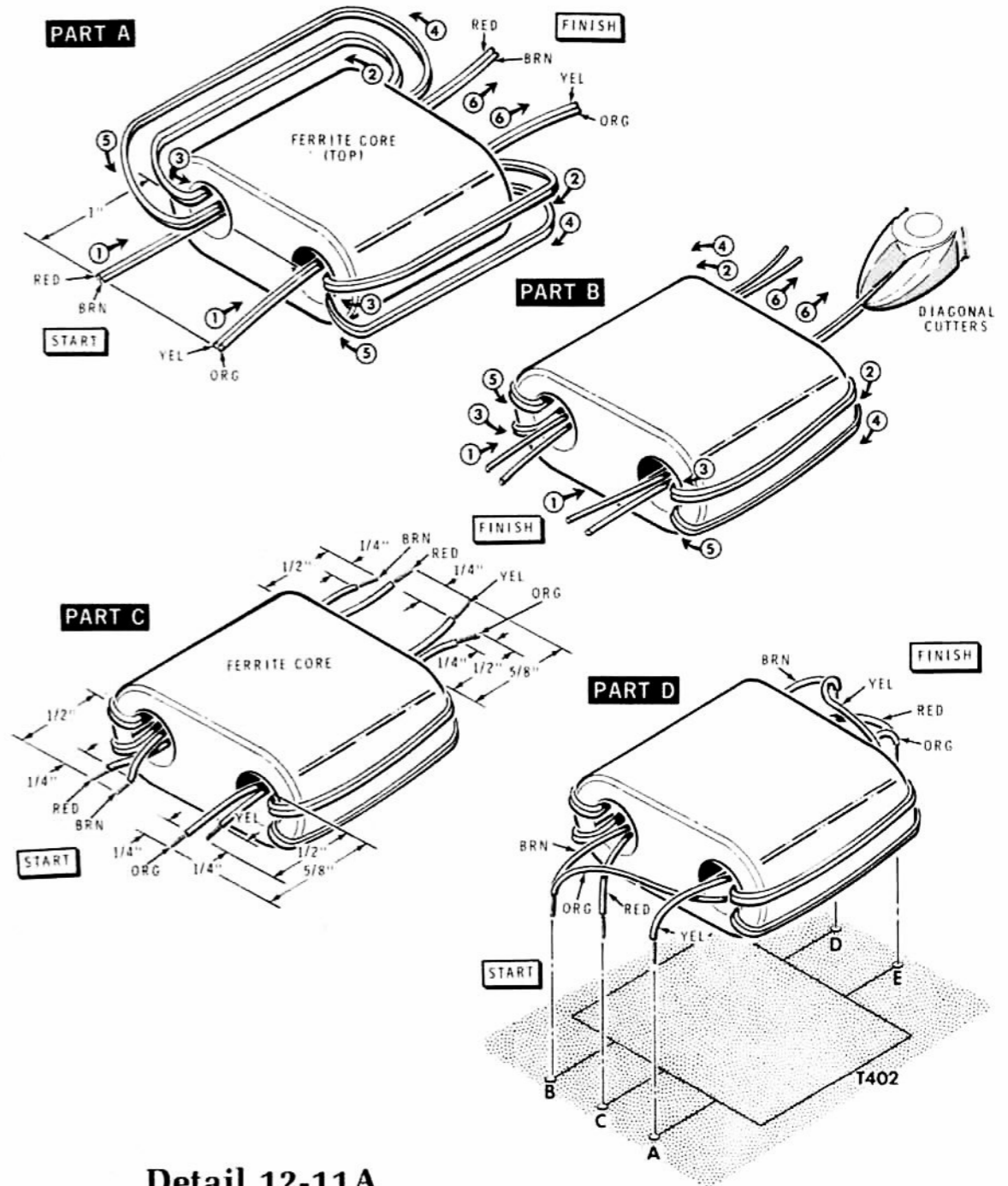
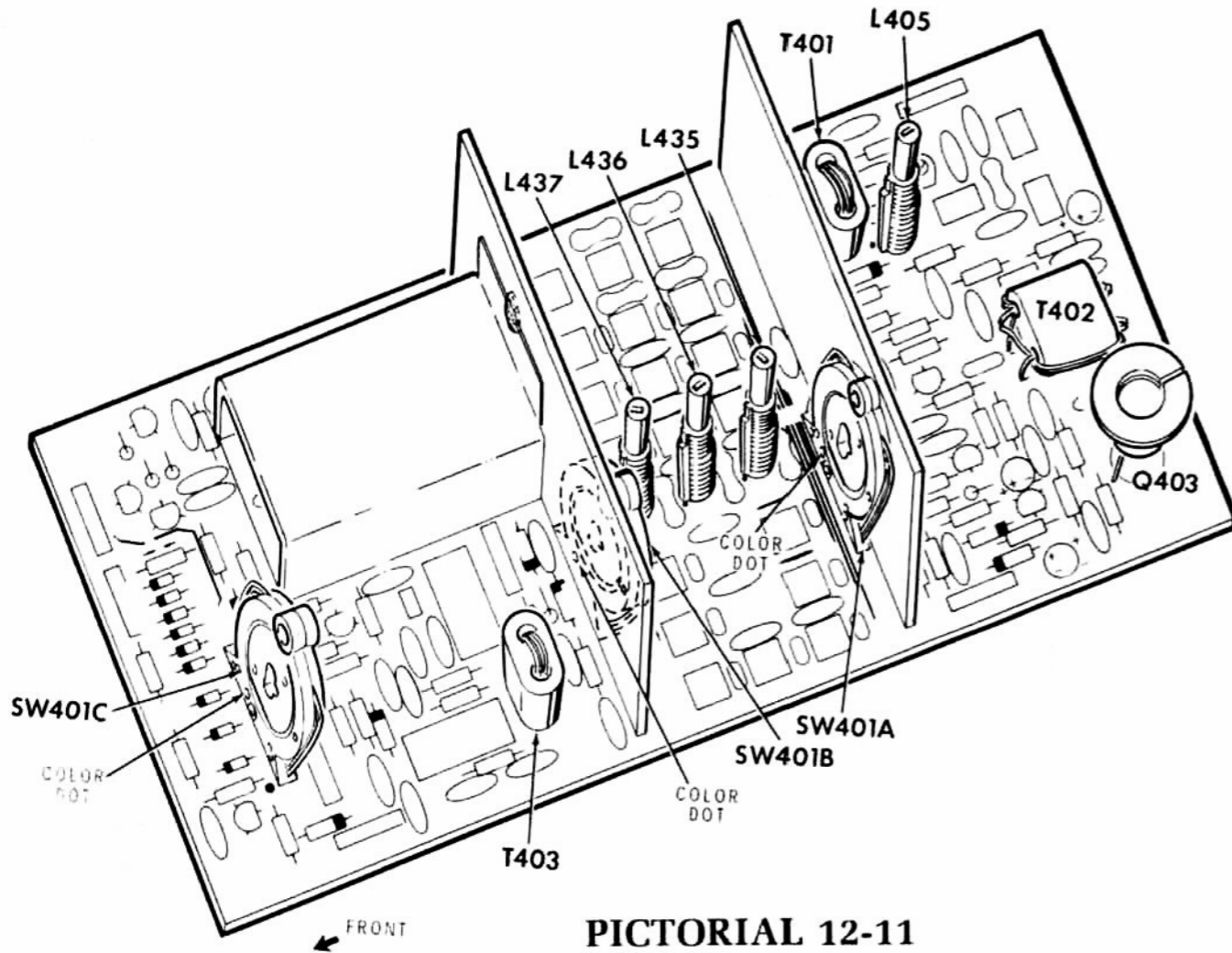


# RF CIRCUIT BOARD



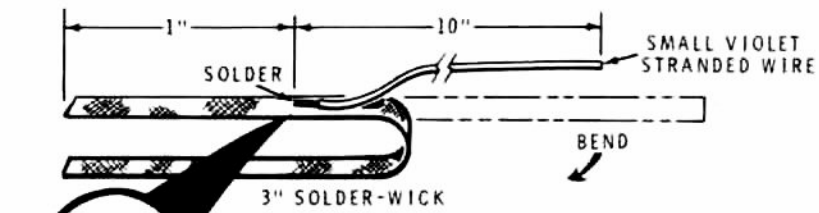


PICTORIAL 11-10

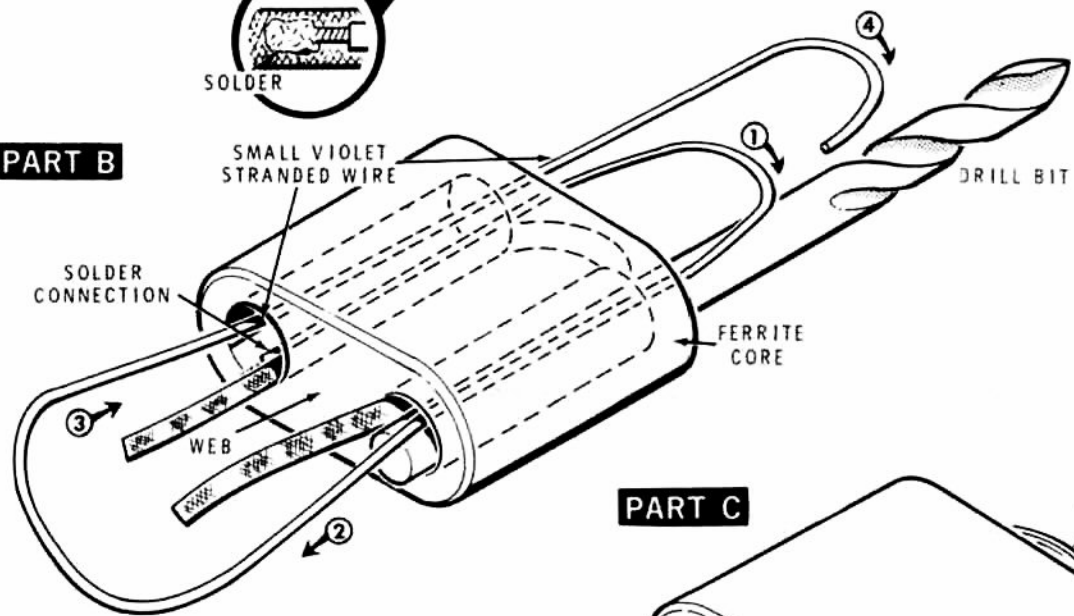




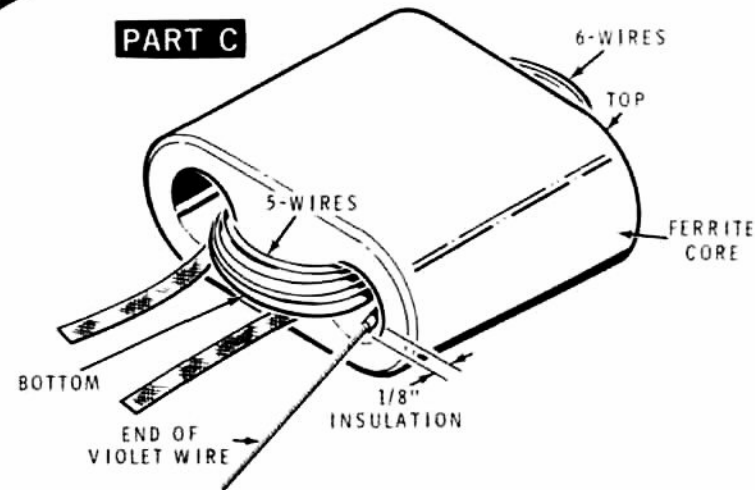
**PART A**



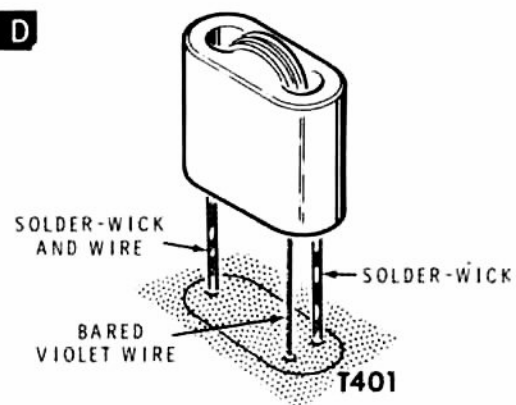
**PART B**



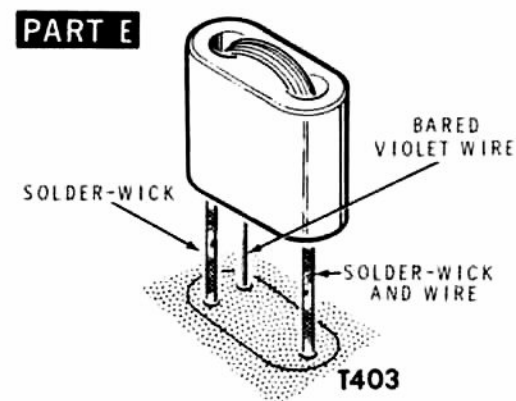
**PART C**



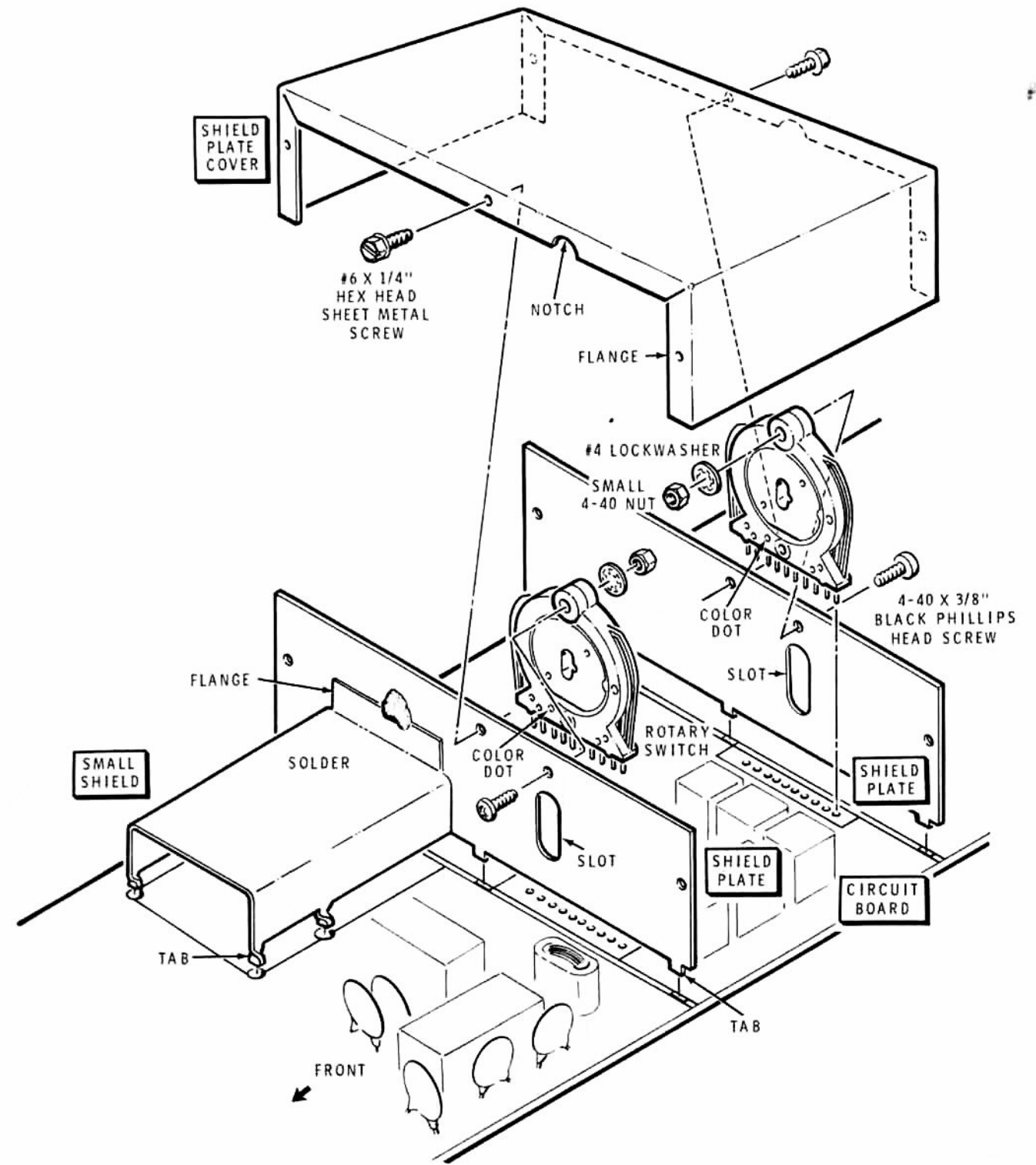
**PART D**



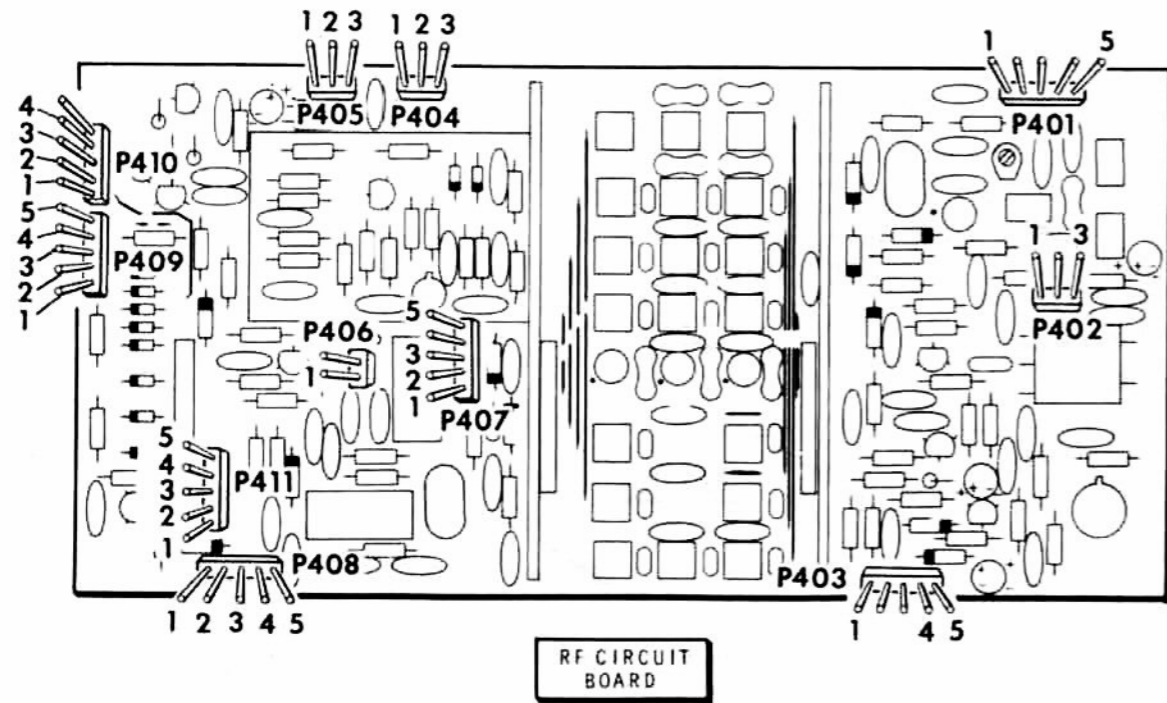
**PART E**



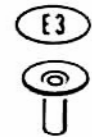
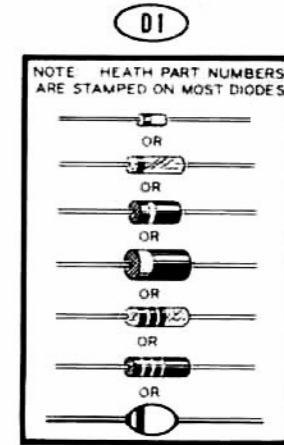
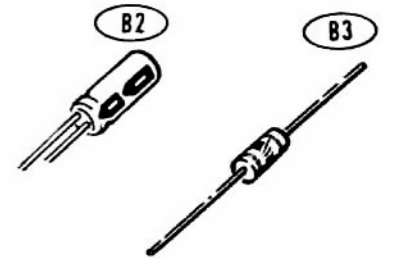
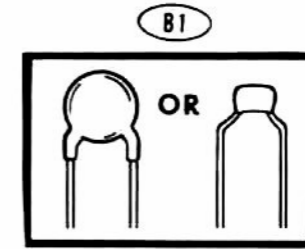
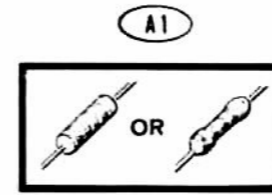
**Detail 12-11B**



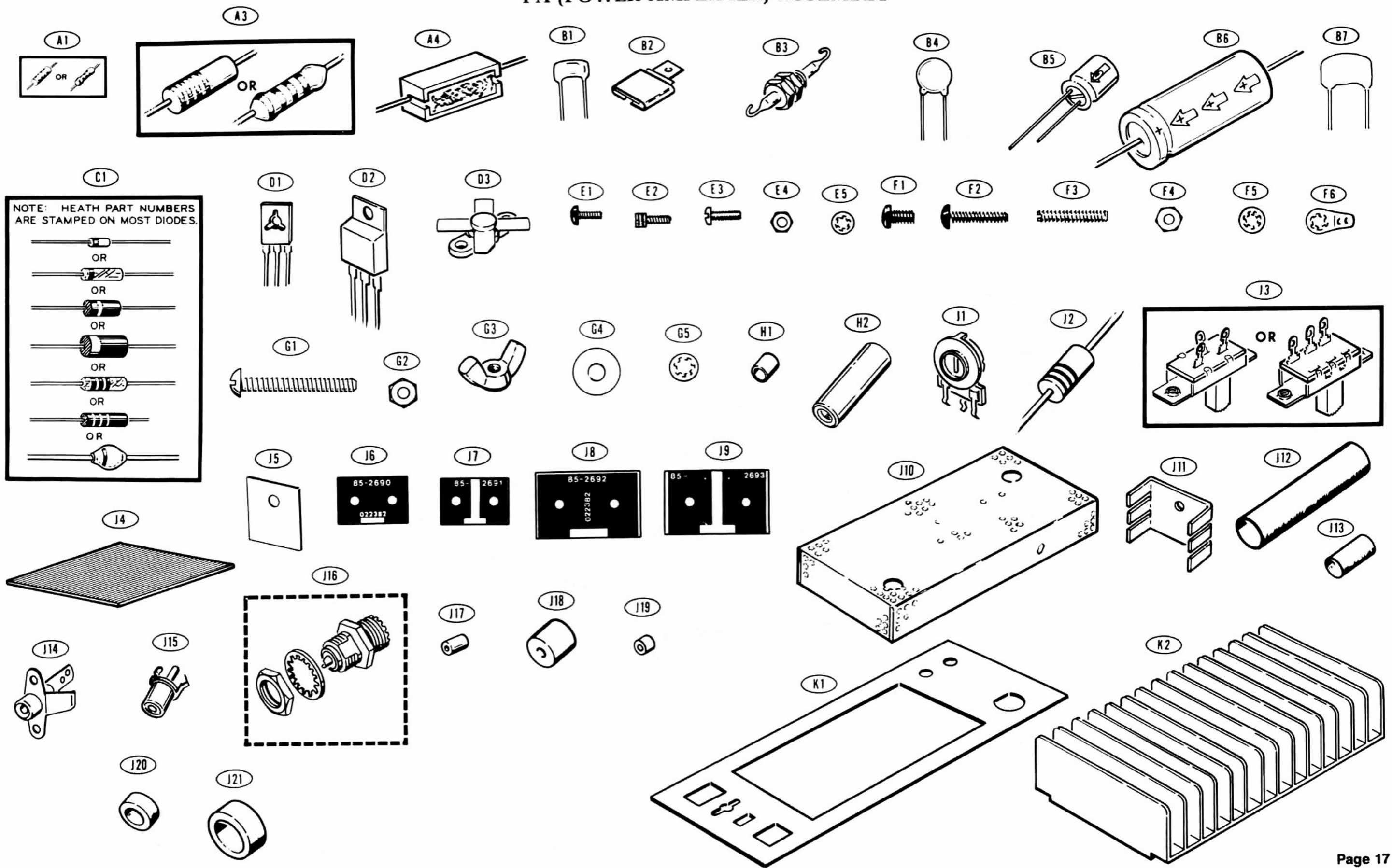
**Detail 12-11F**

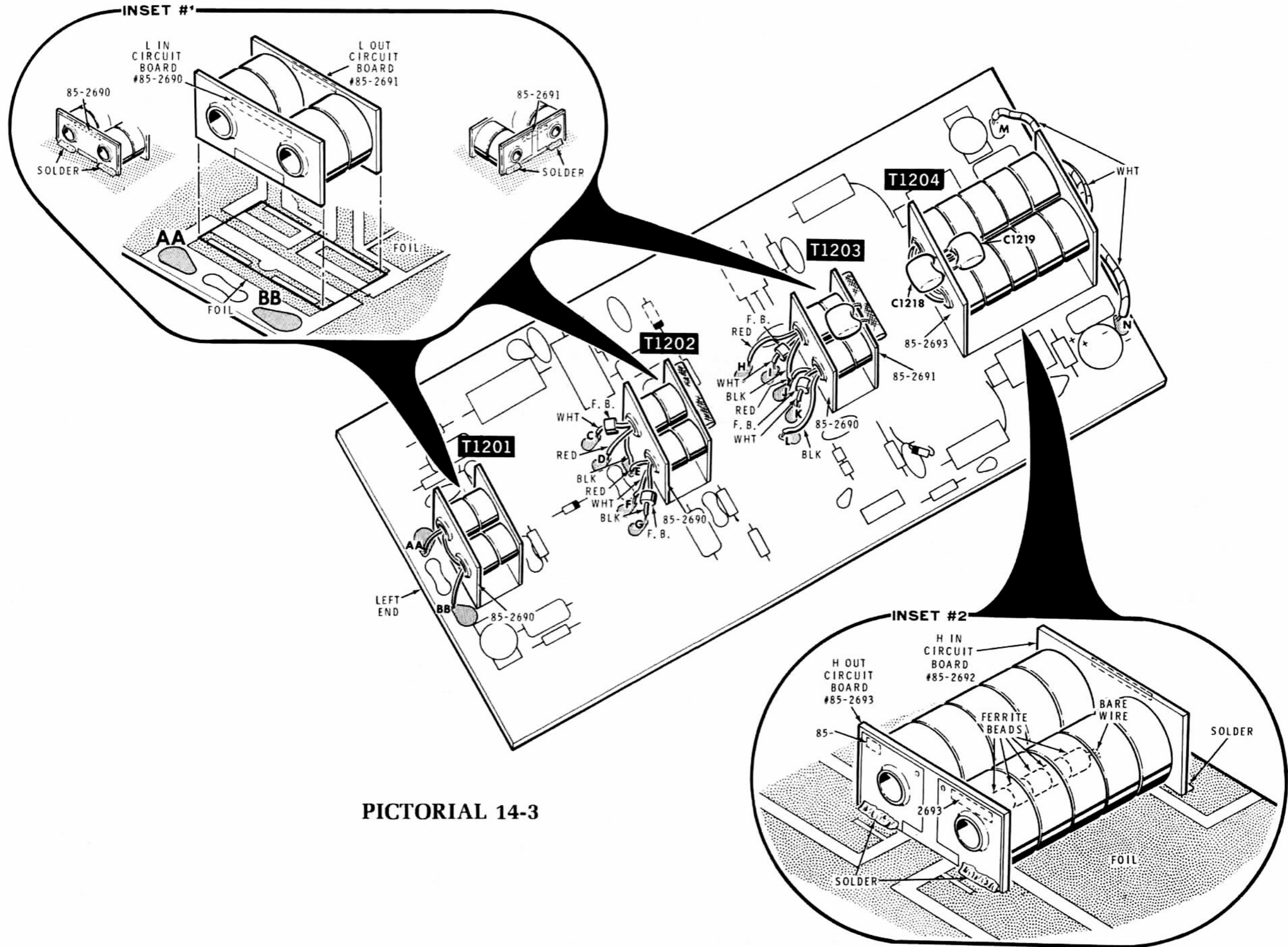


PICTORIAL 12-12

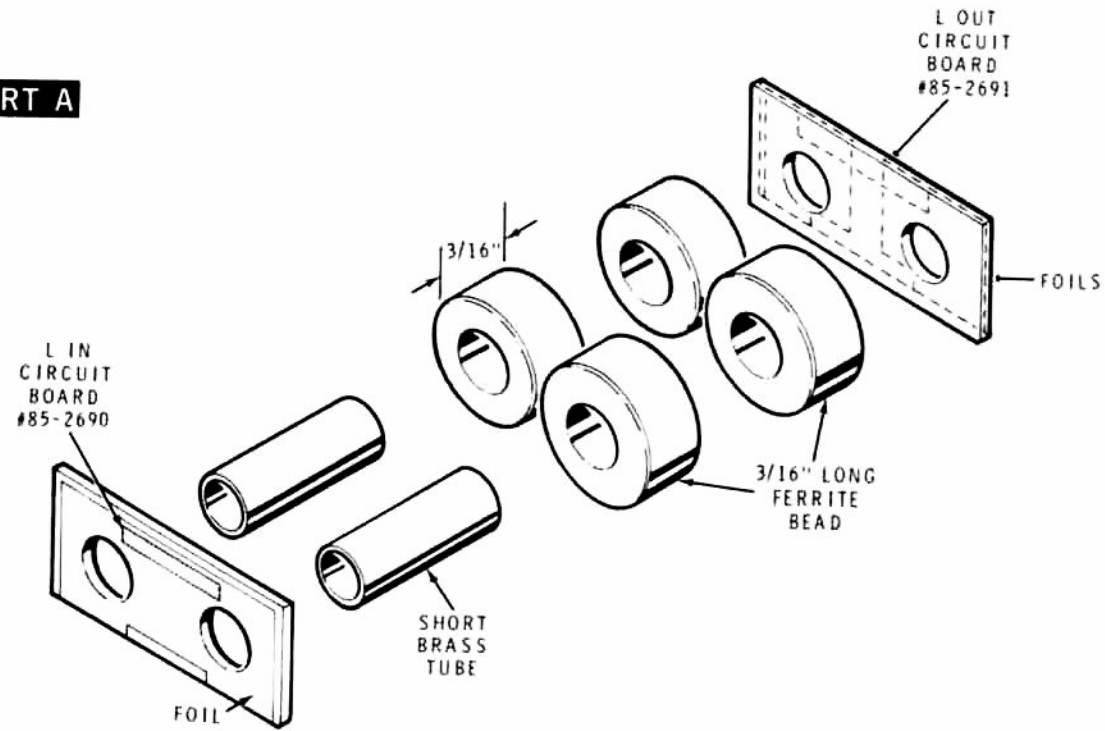


# PA (POWER AMPLIFIER) ASSEMBLY

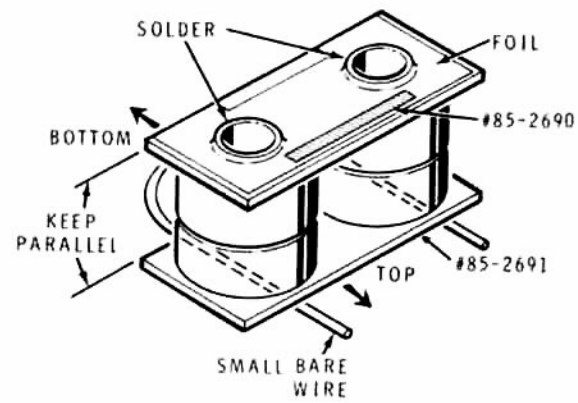




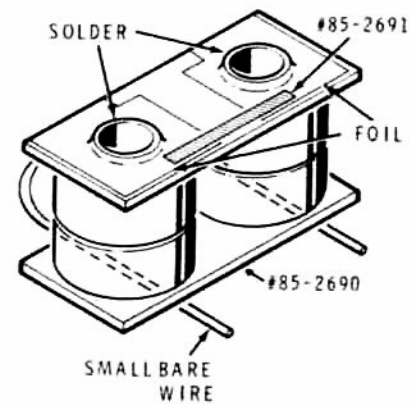
**PART A**



**PART B**

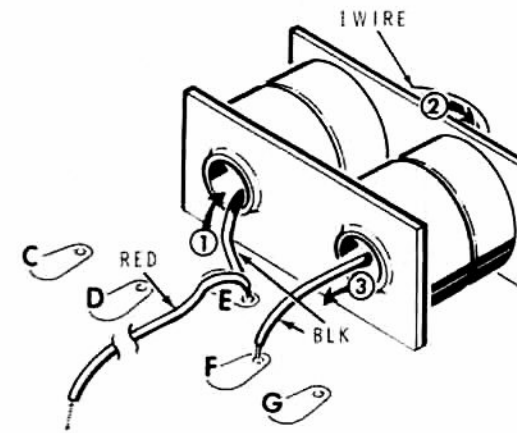


**PART C**

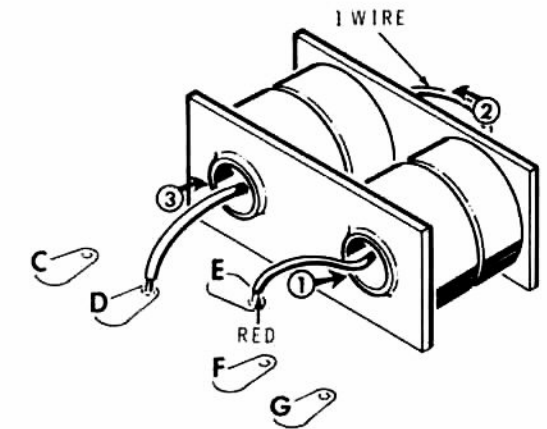


**Detail 14-3A**

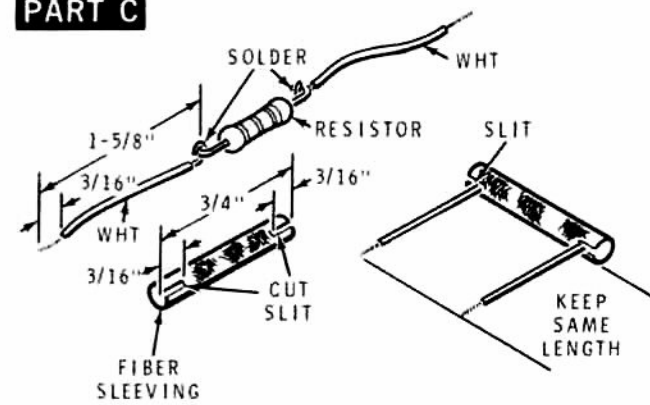
**PART A**



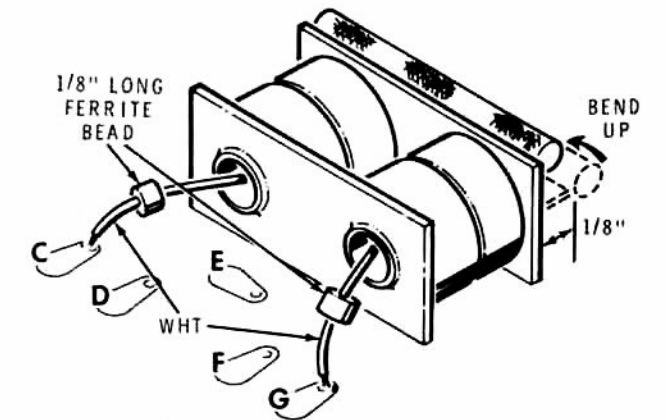
**PART B**



**PART C**

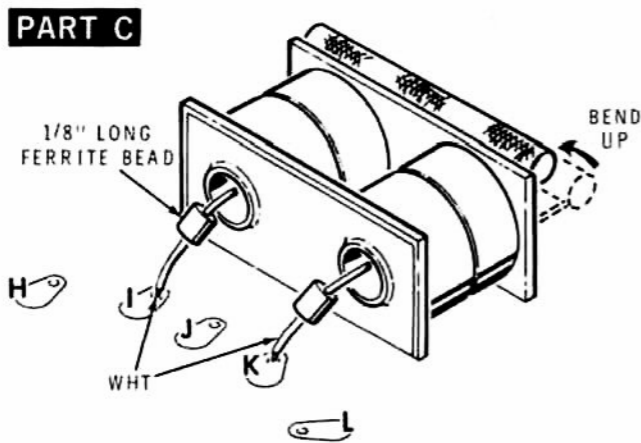
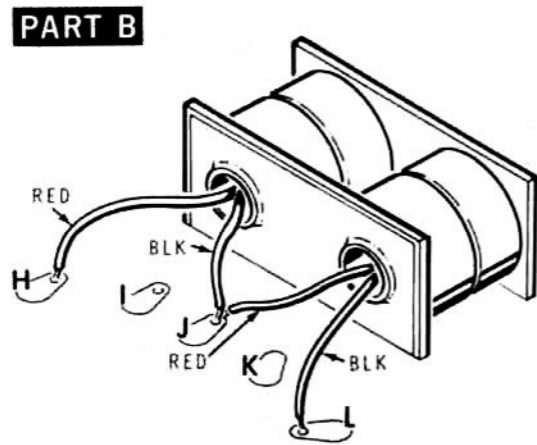
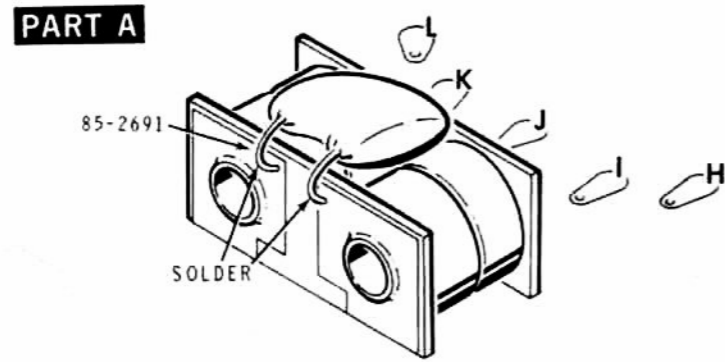


**PART D**

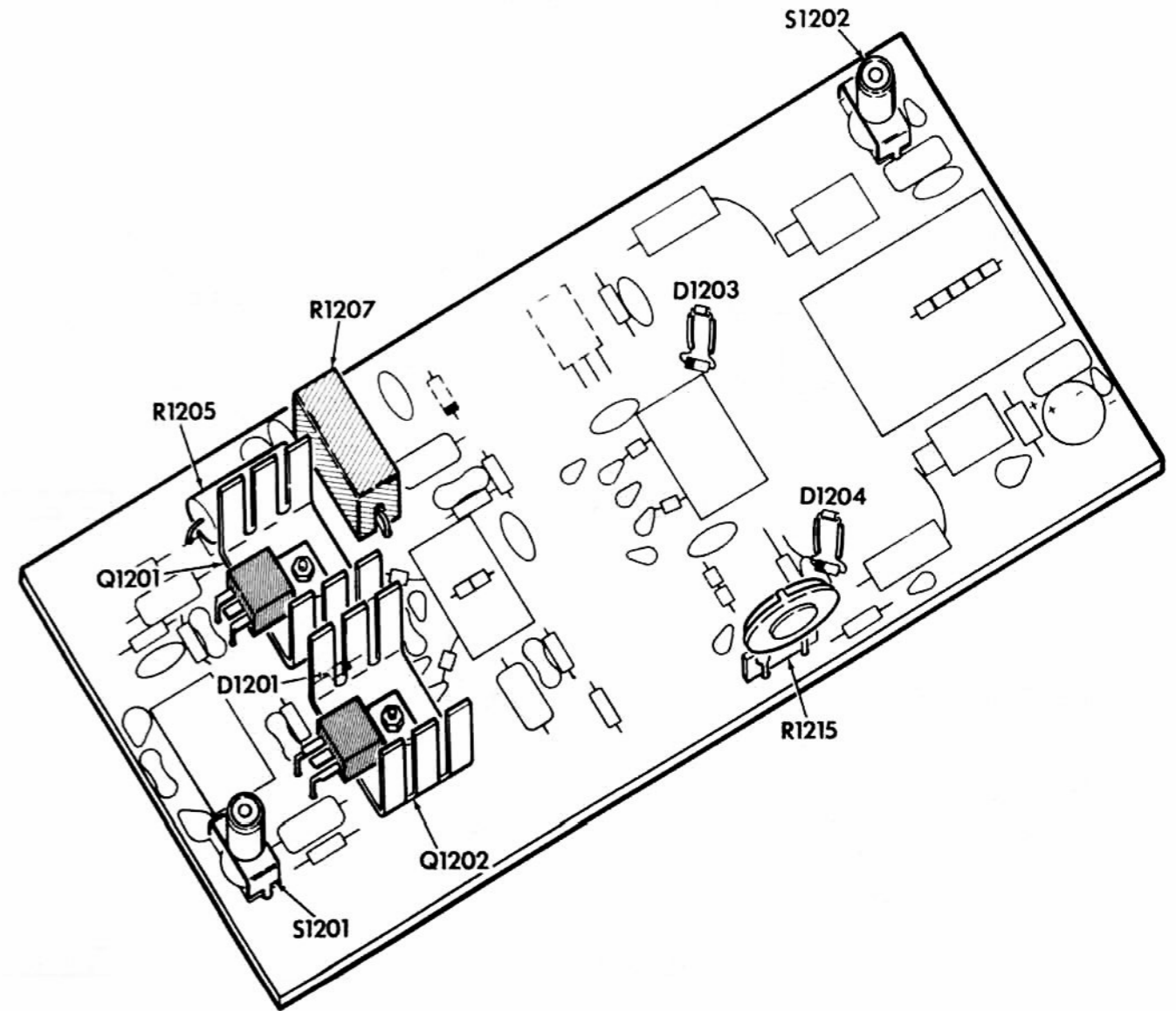


**Detail 14-3D**

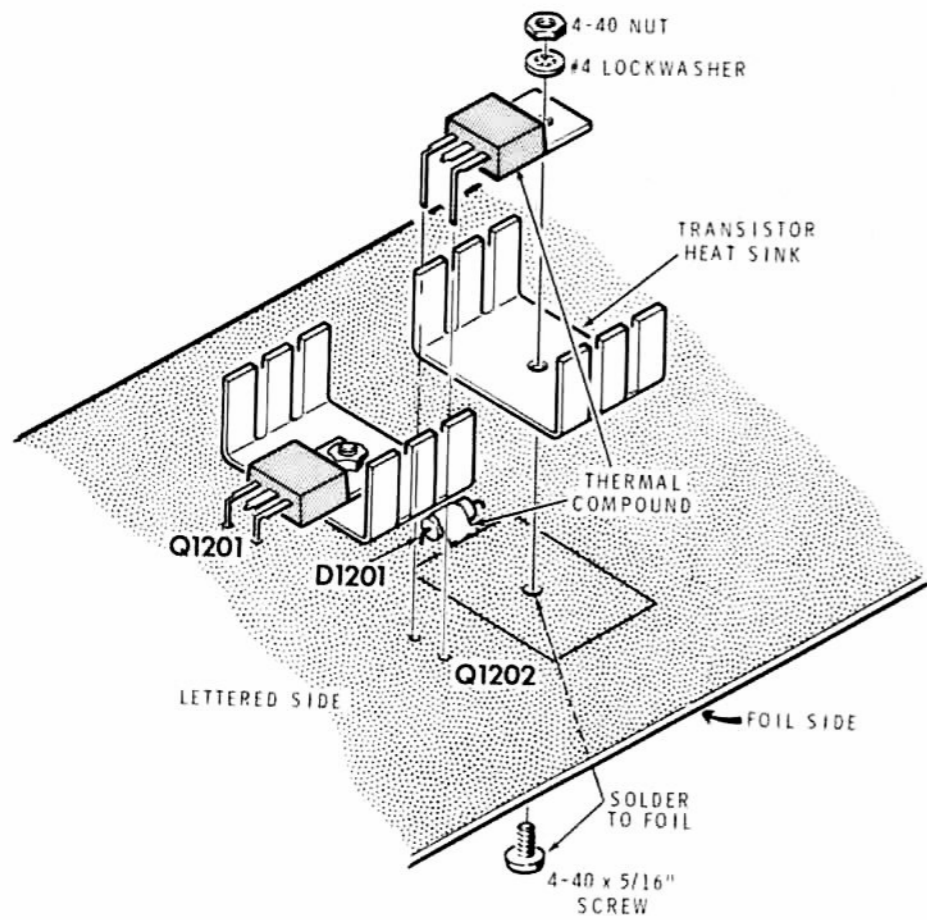




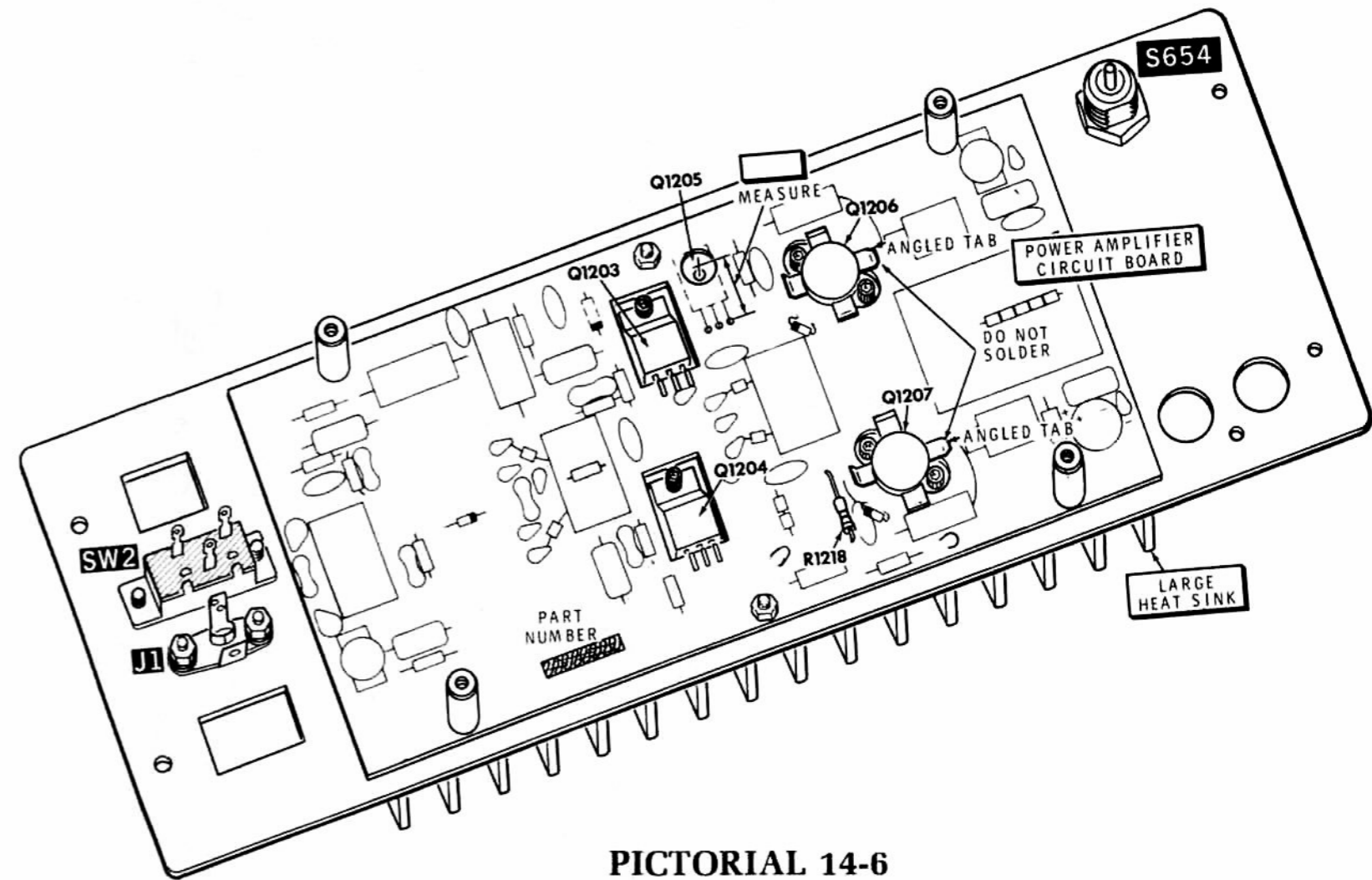
Detail 14-3E



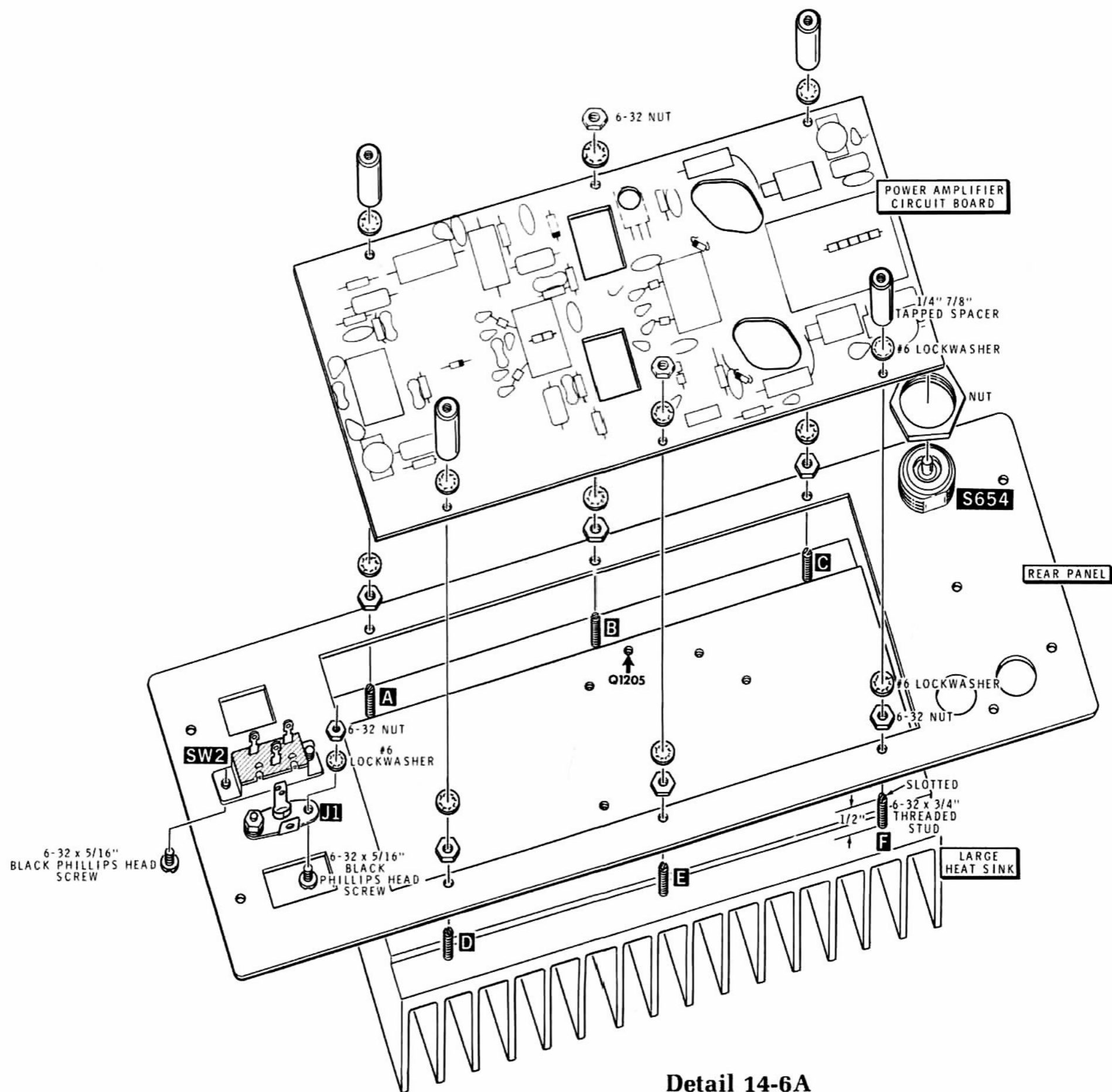
PICTORIAL 14-5



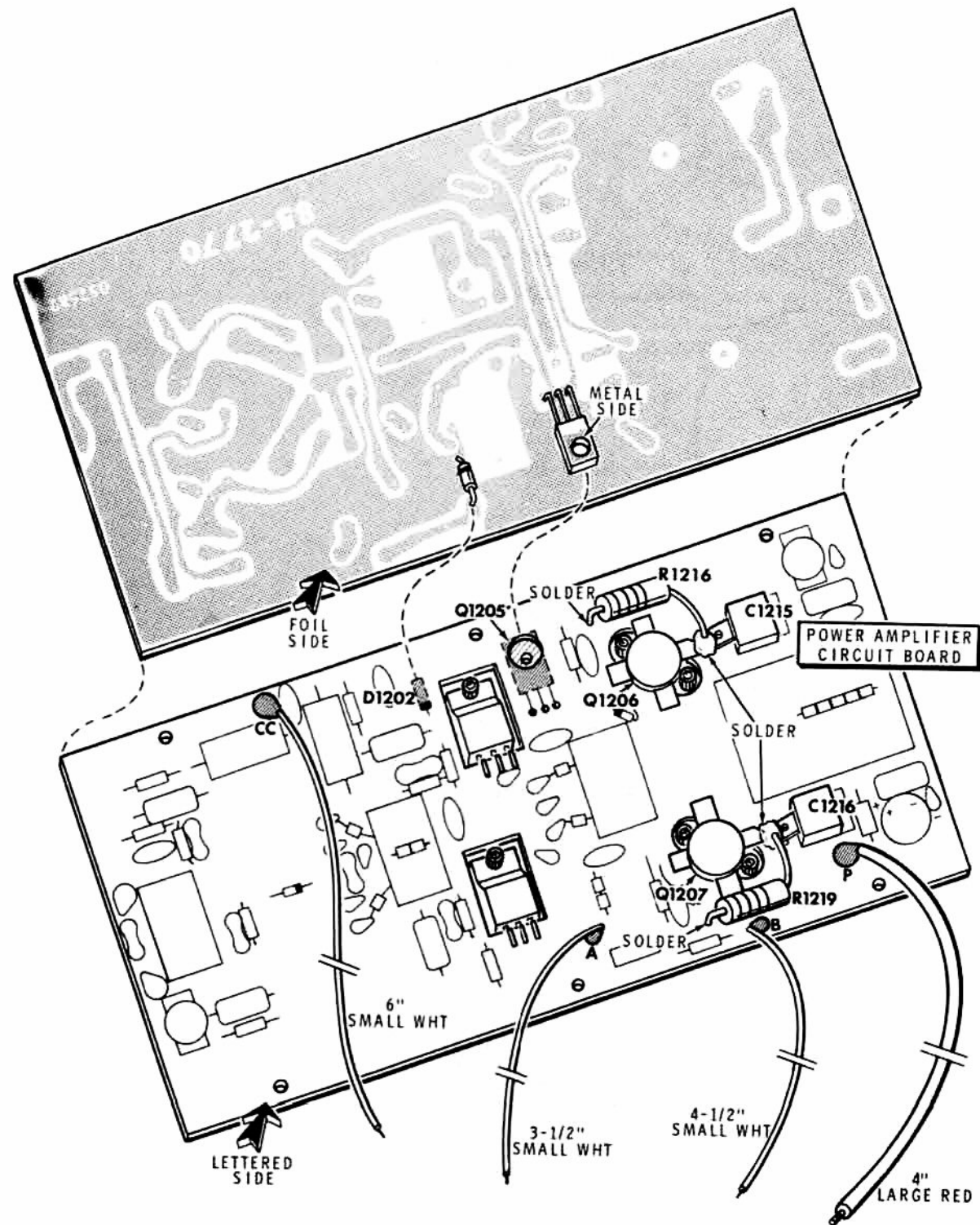
**Detail 14-5B**



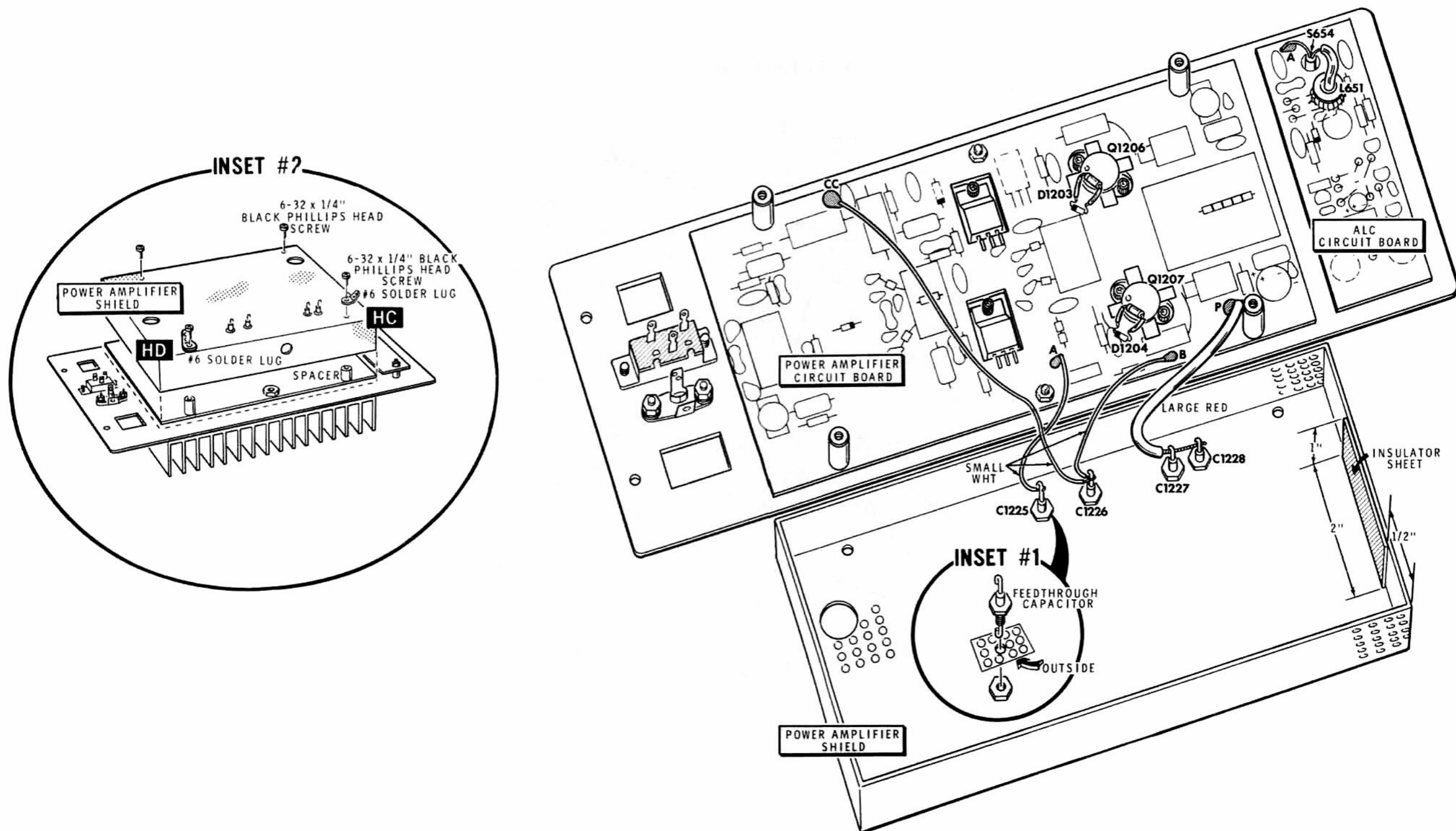
**PICTORIAL 14-6**



Detail 14-6A

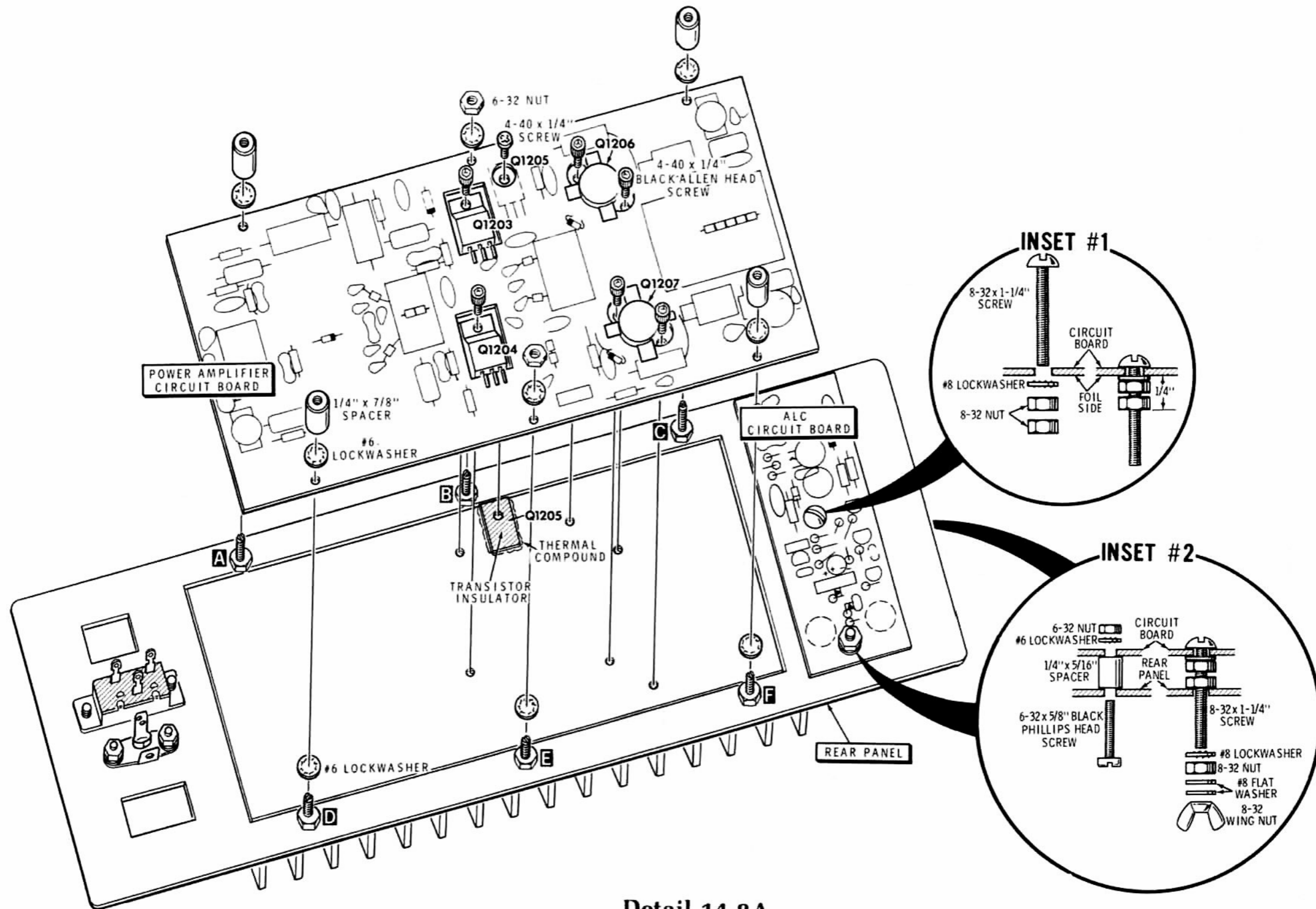


PICTORIAL 14-7



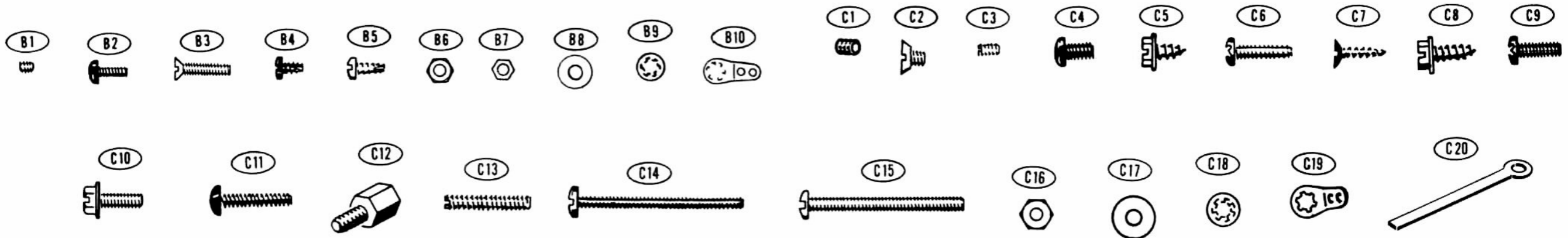
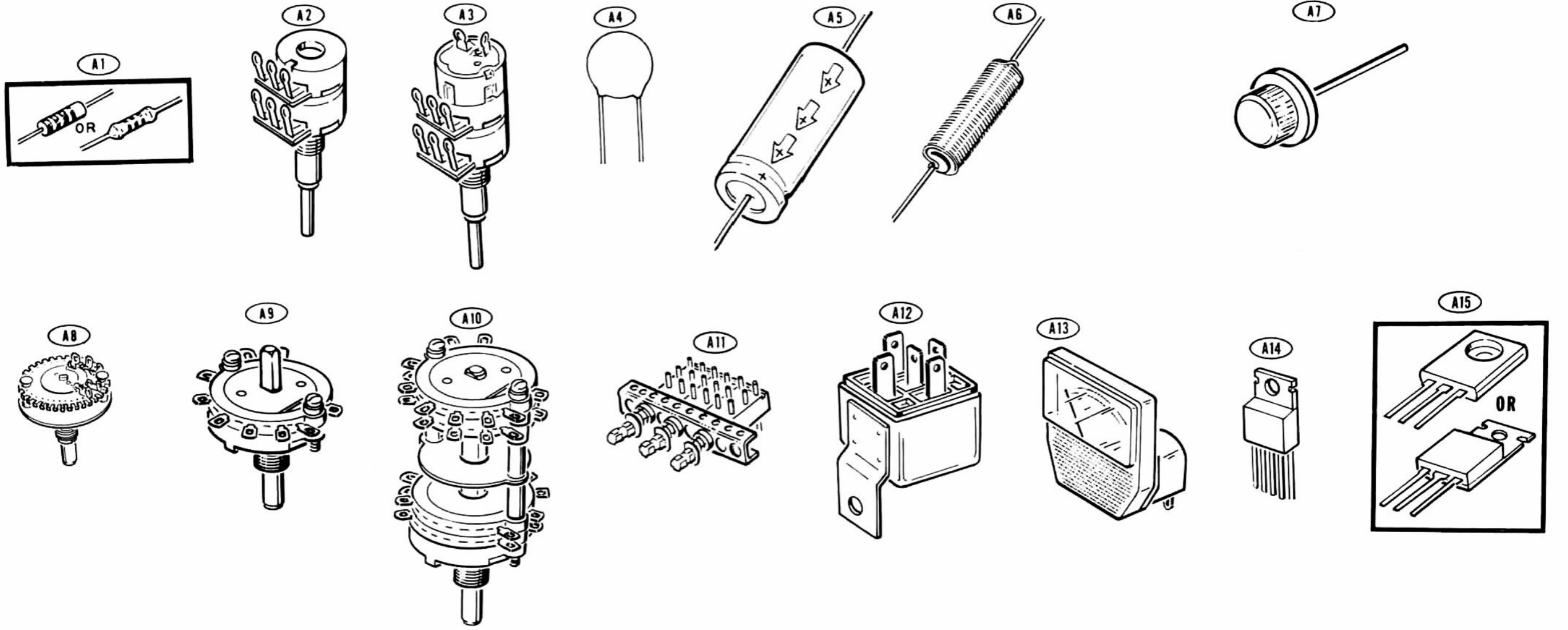
PICTORIAL 14-8



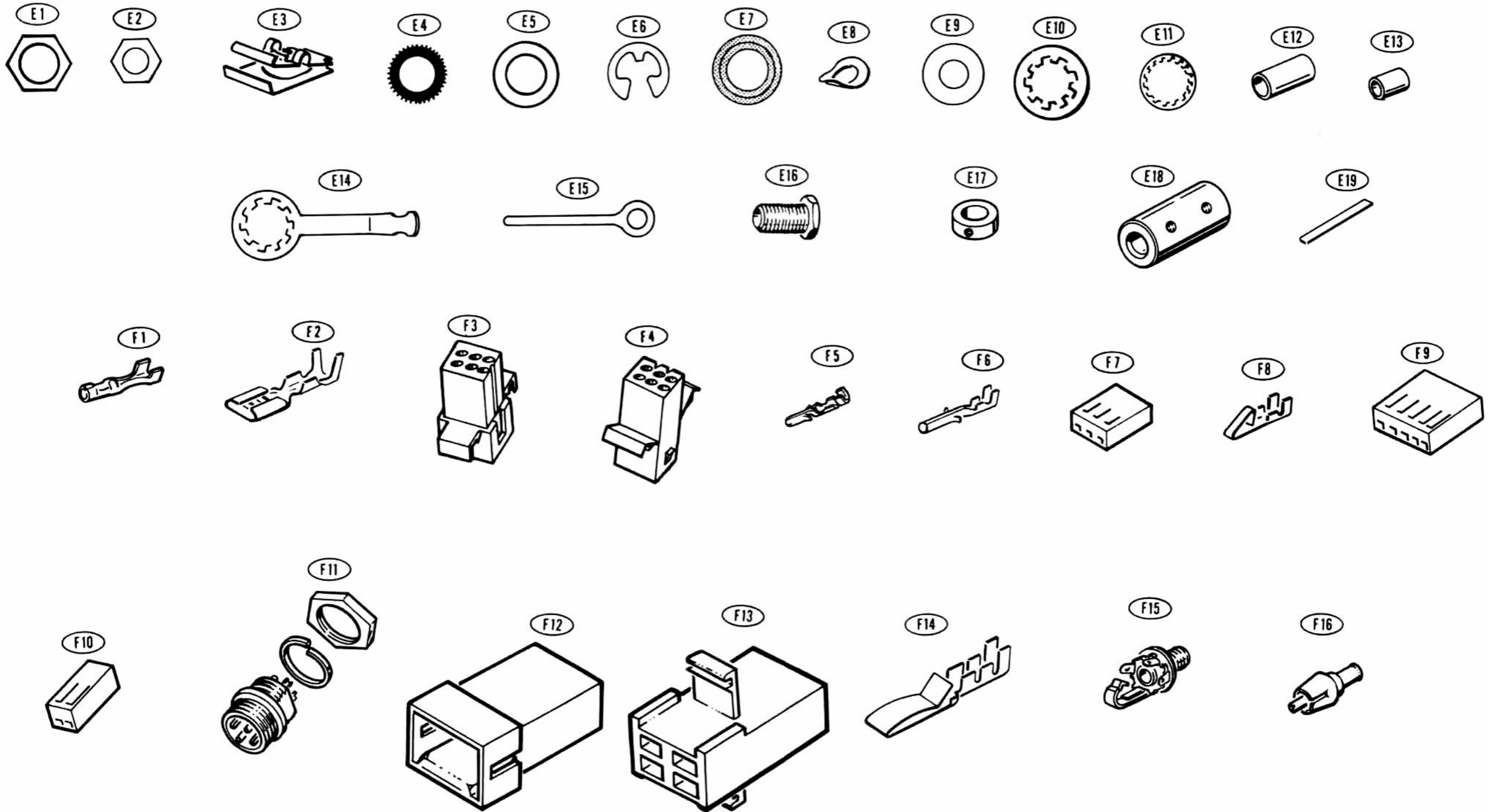


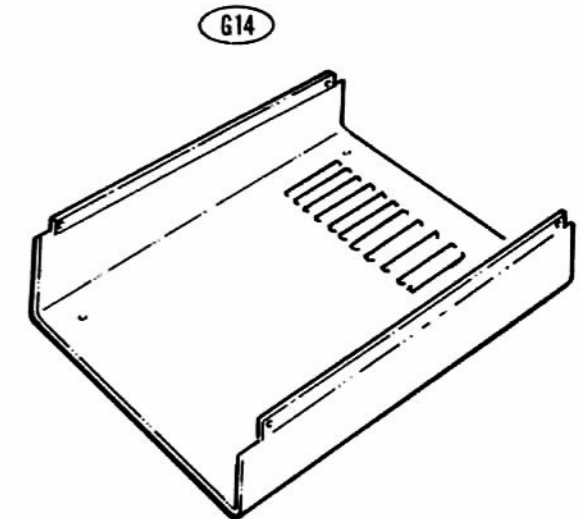
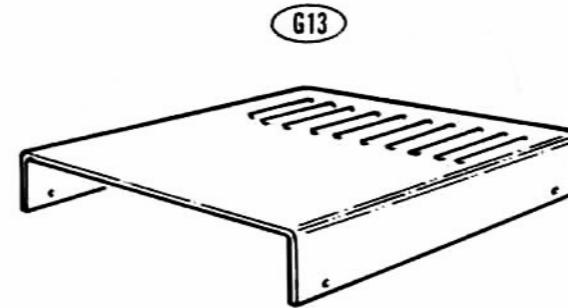
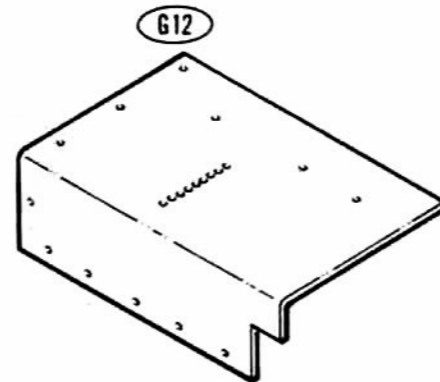
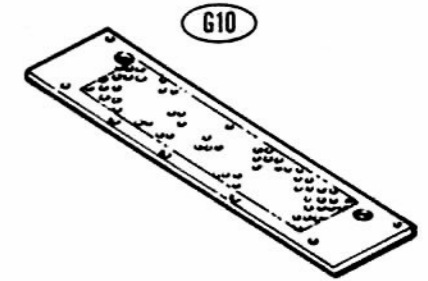
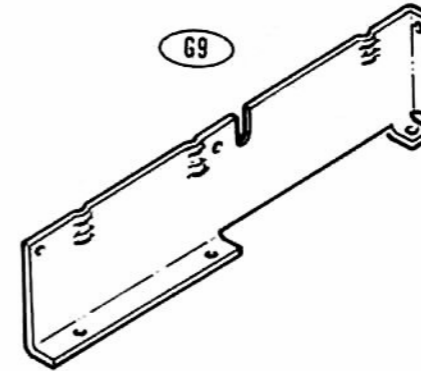
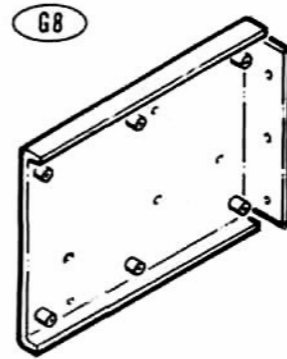
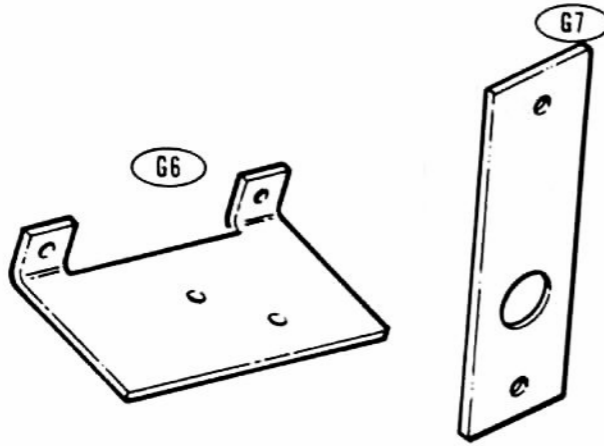
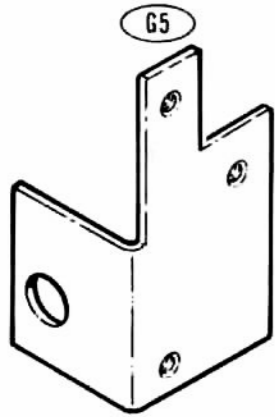
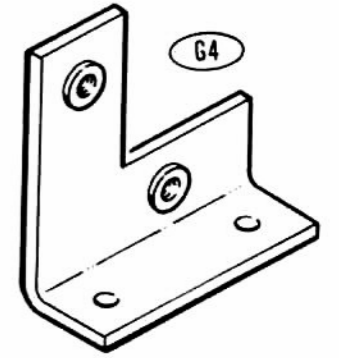
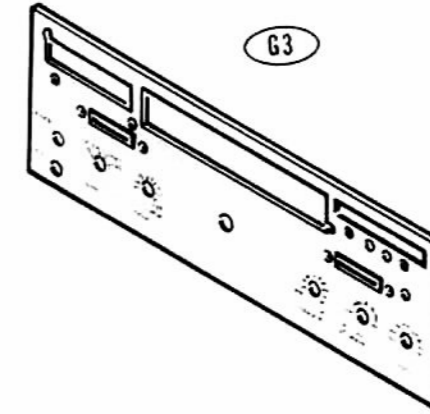
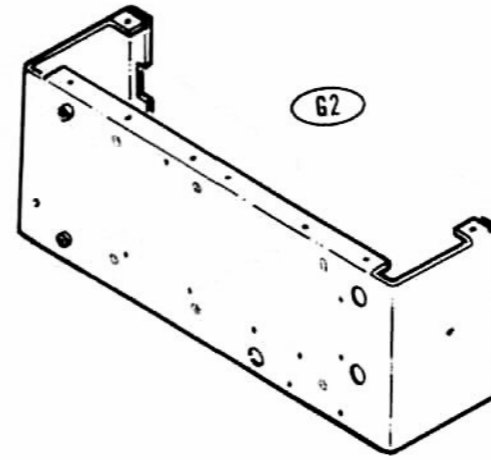
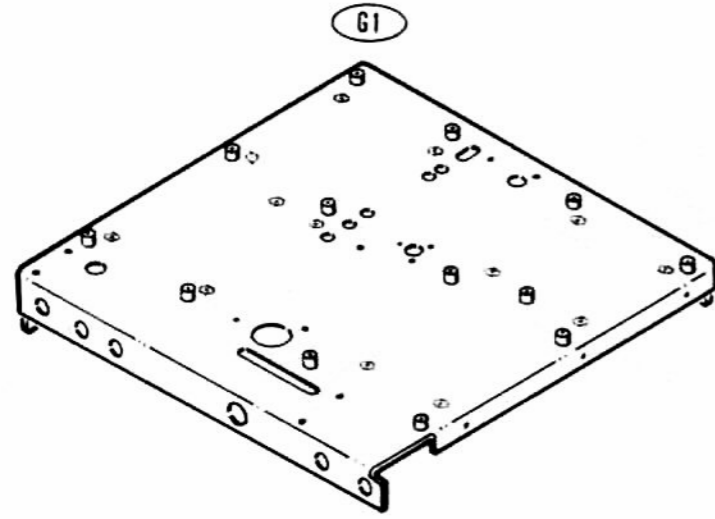
Detail 14-8A

# CHASSIS PARTS PICTORIAL

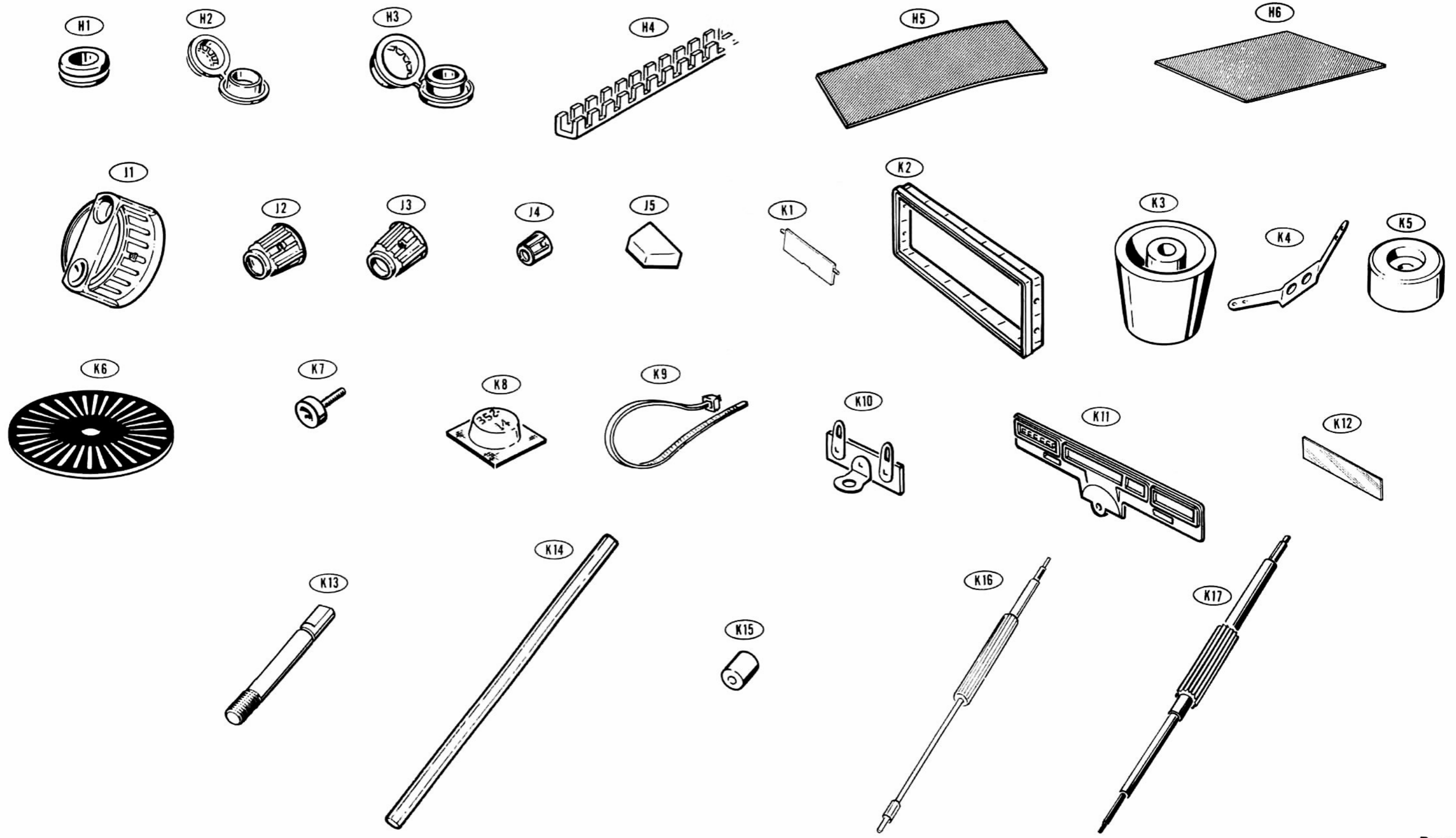


# Chassis Parts Pictorial (Cont'd.)

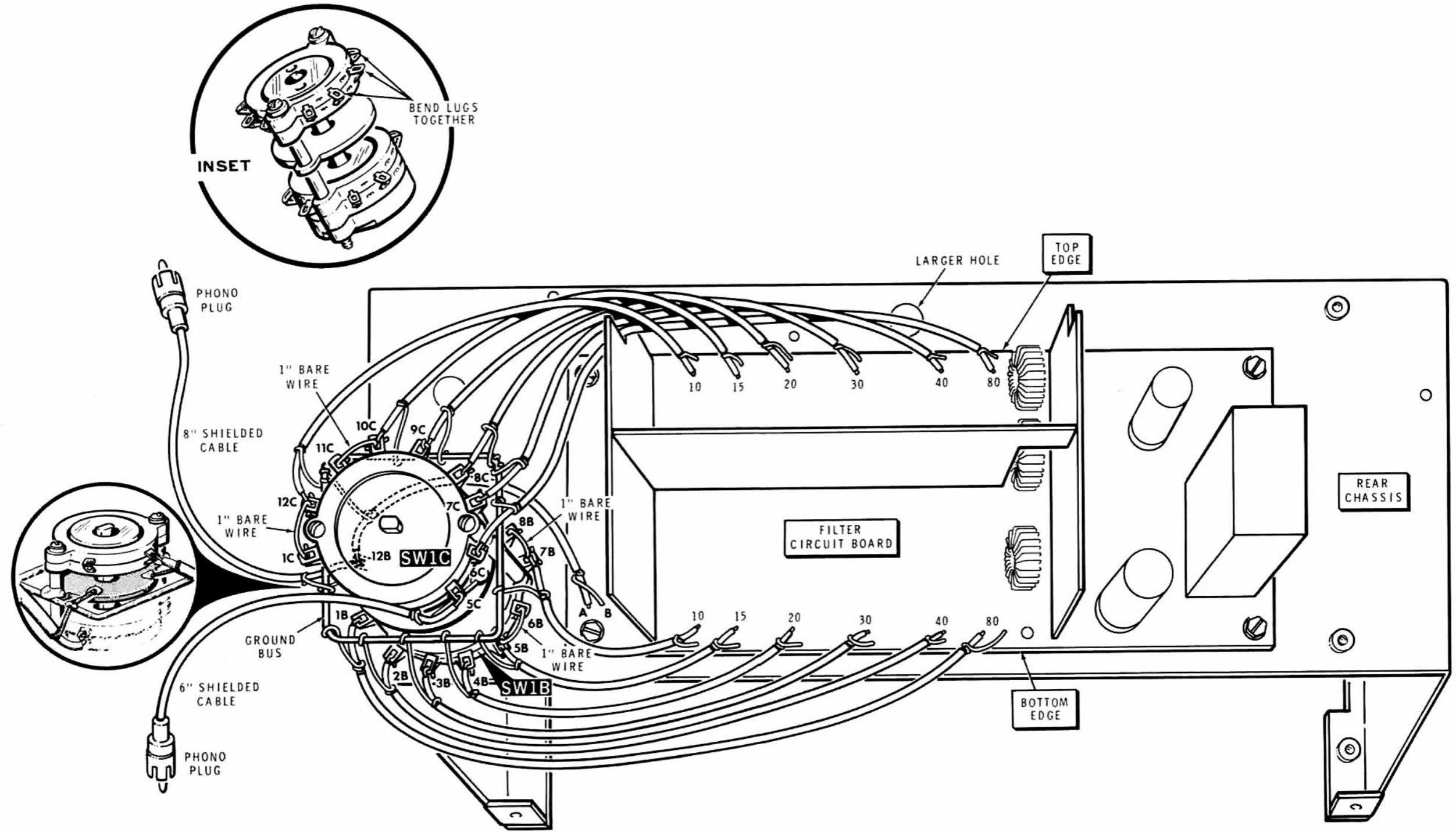




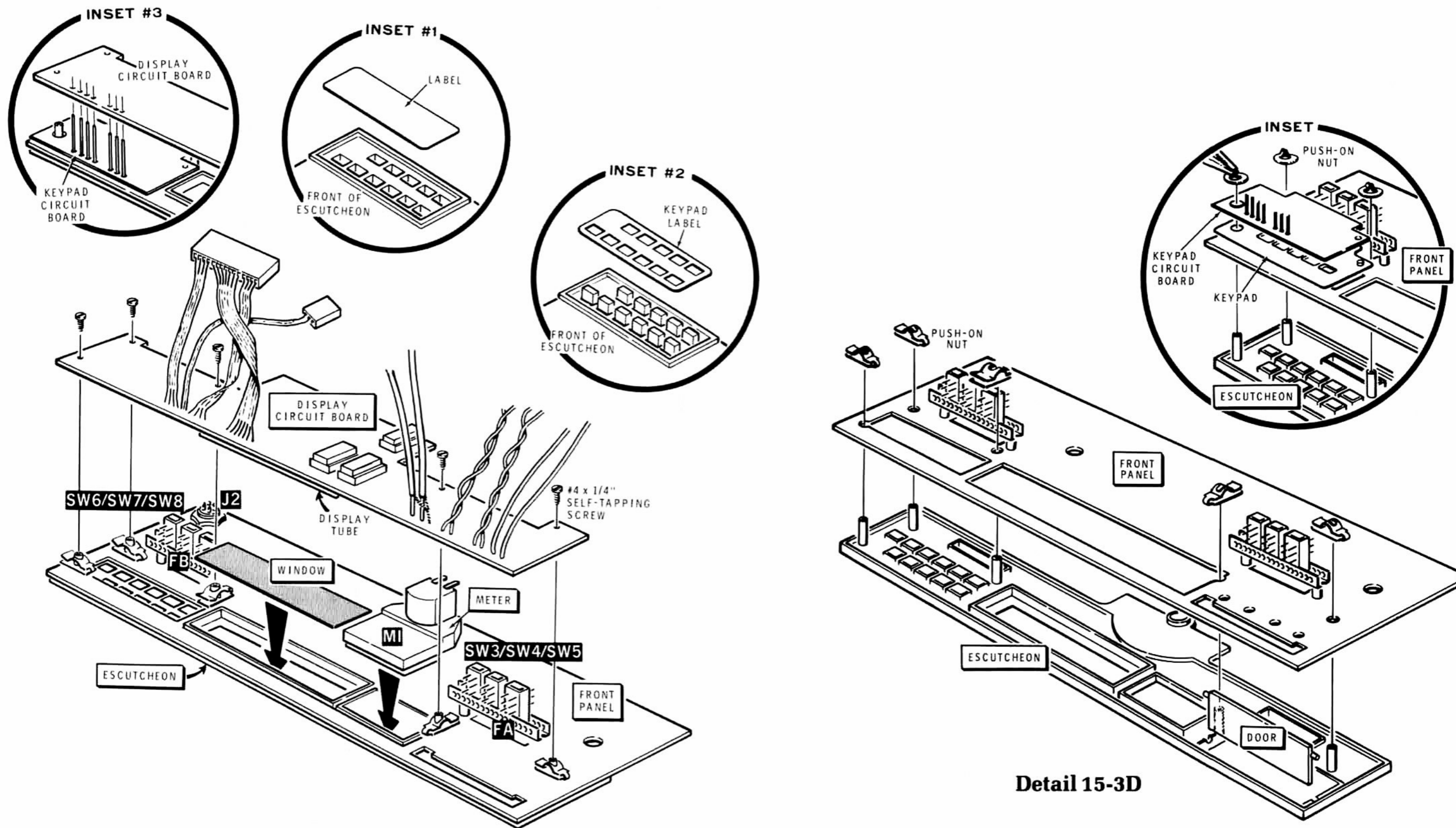
# Chassis Parts Pictorial (Cont'd.)





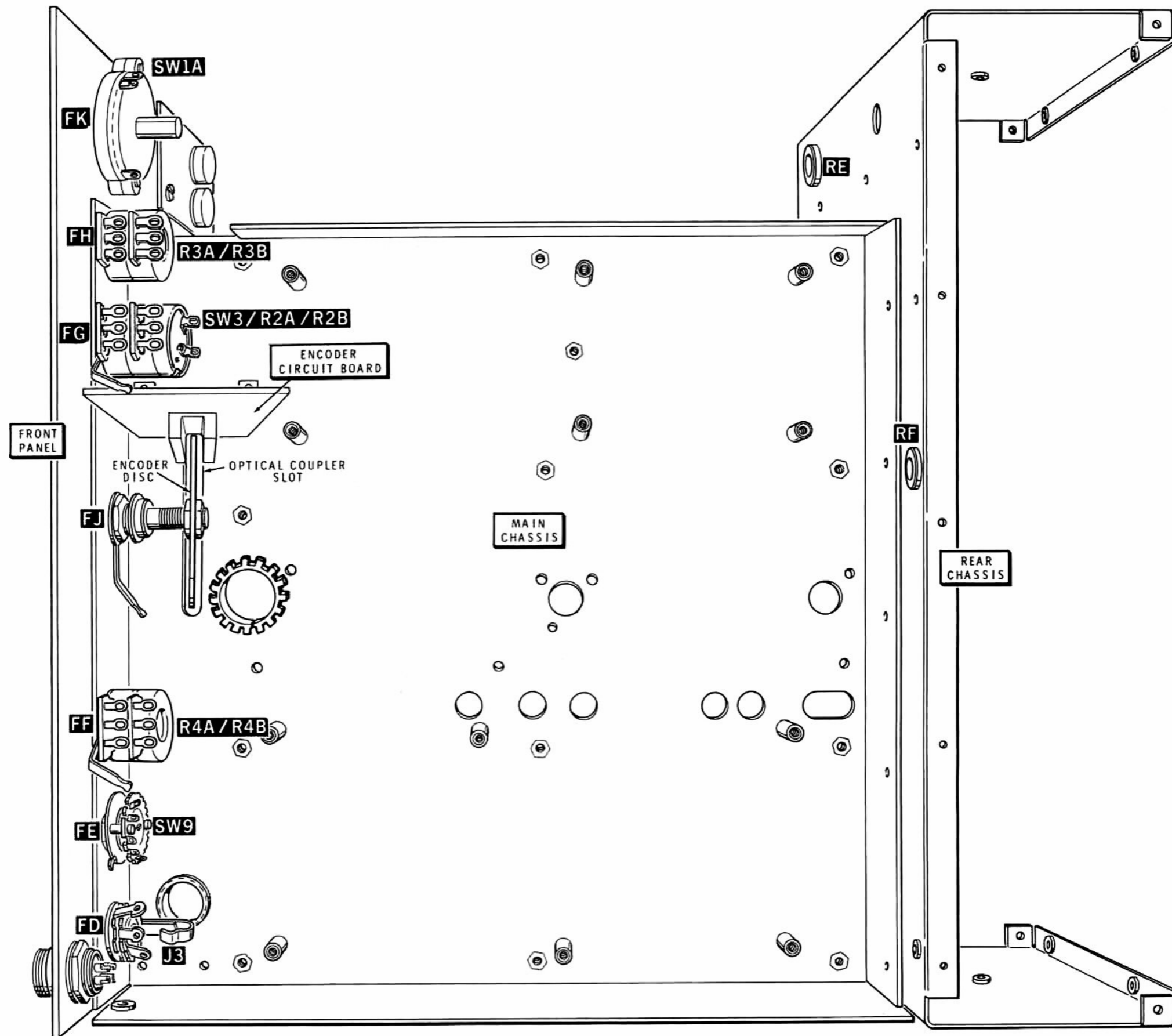


PICTORIAL 15-1

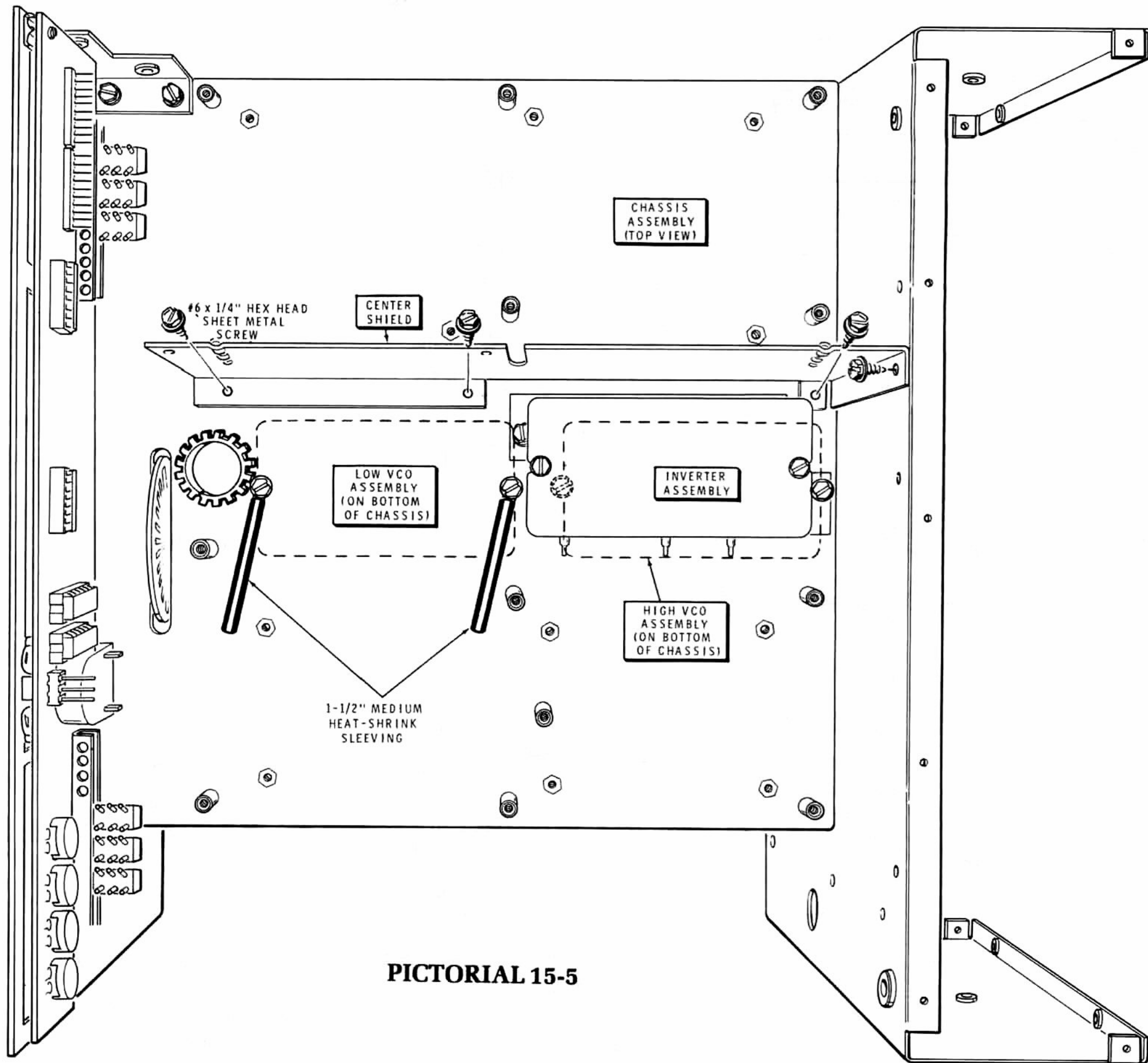


PICTORIAL 15-3

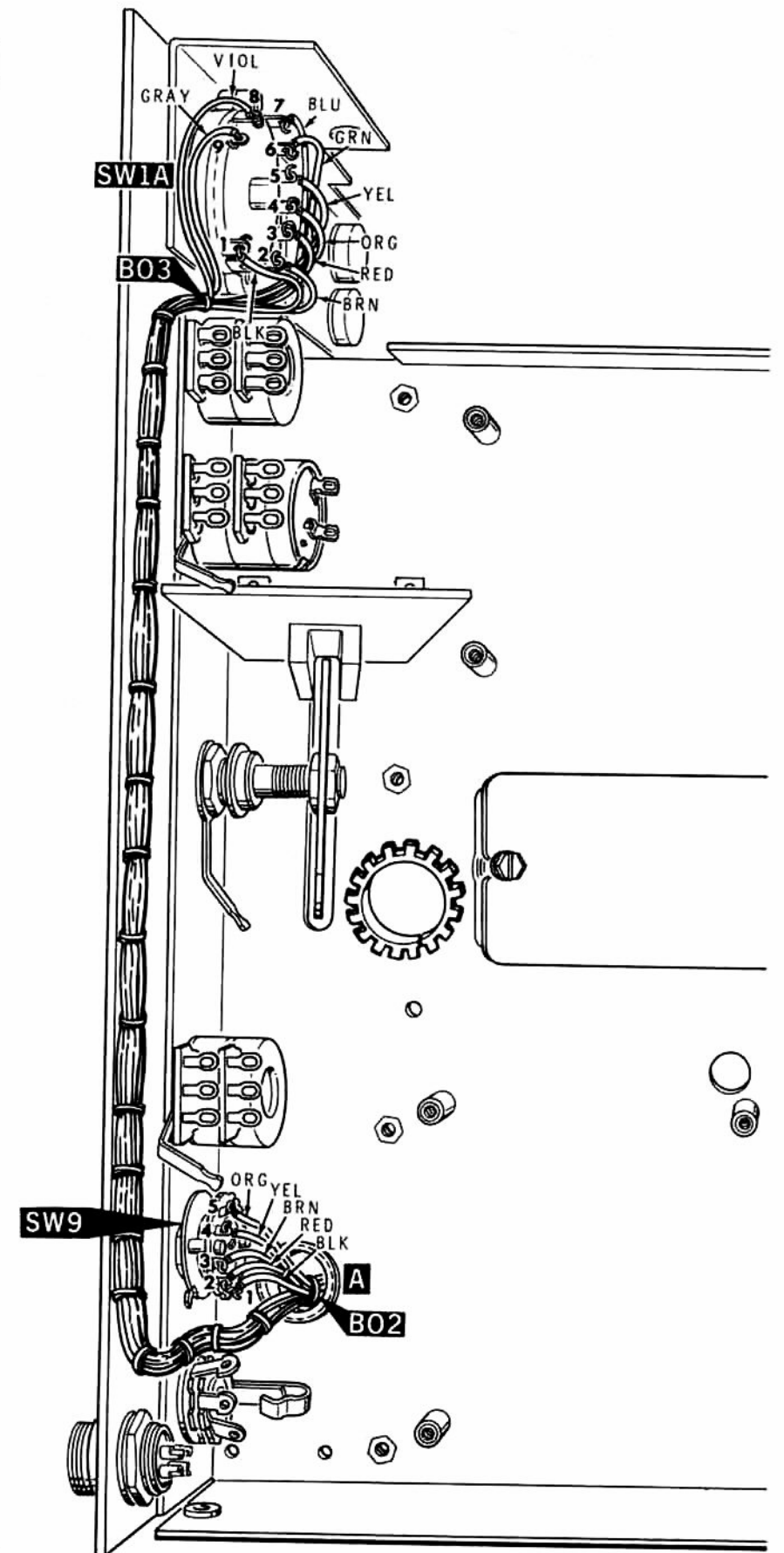
Detail 15-3D



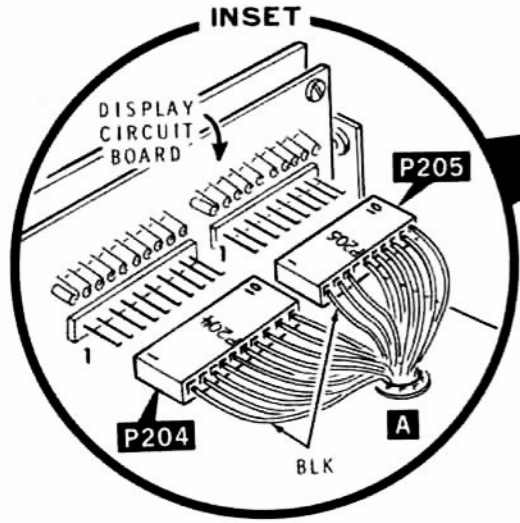
PICTORIAL 15-4



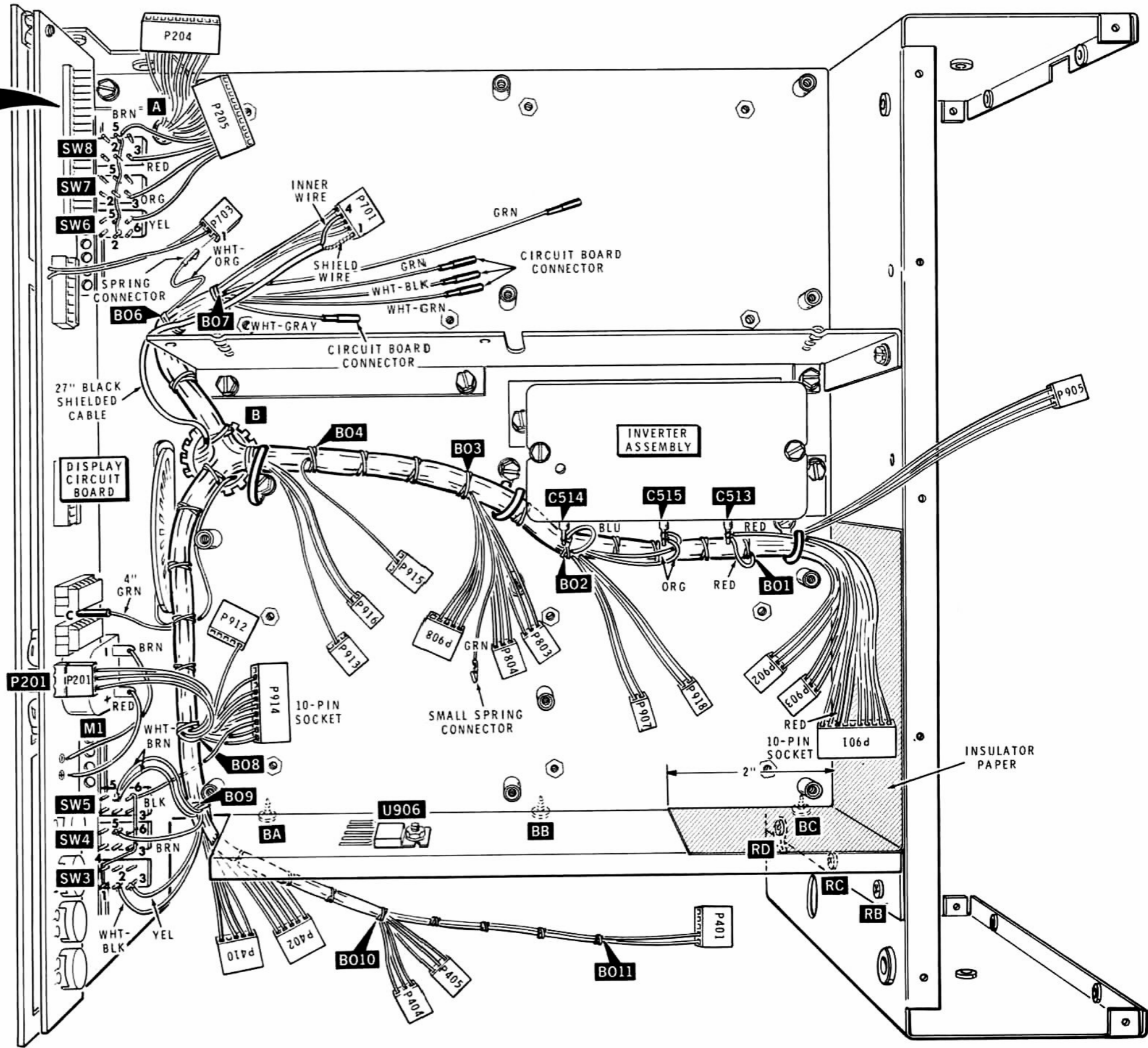
PICTORIAL 15-5



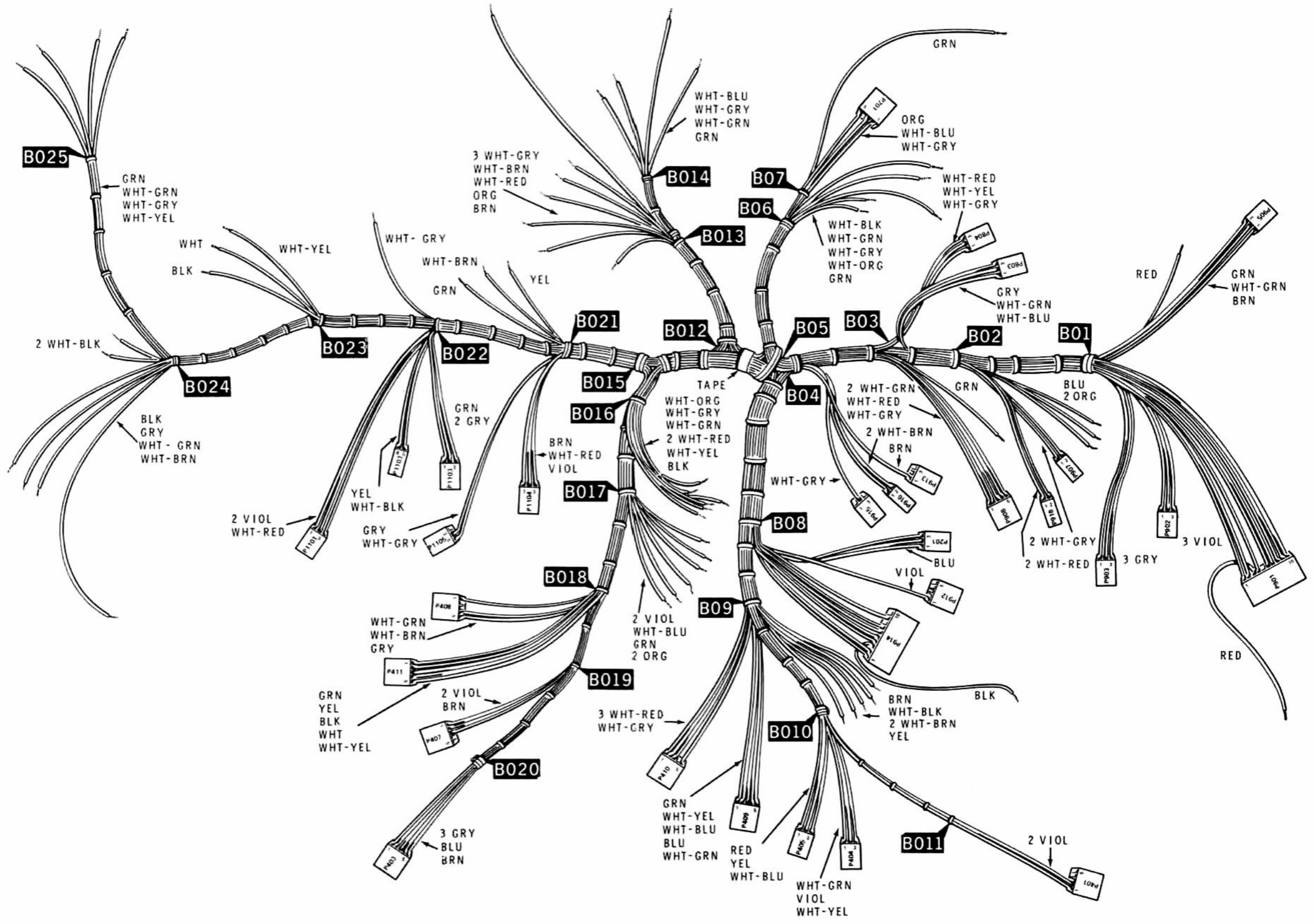
PICTORIAL 15-6



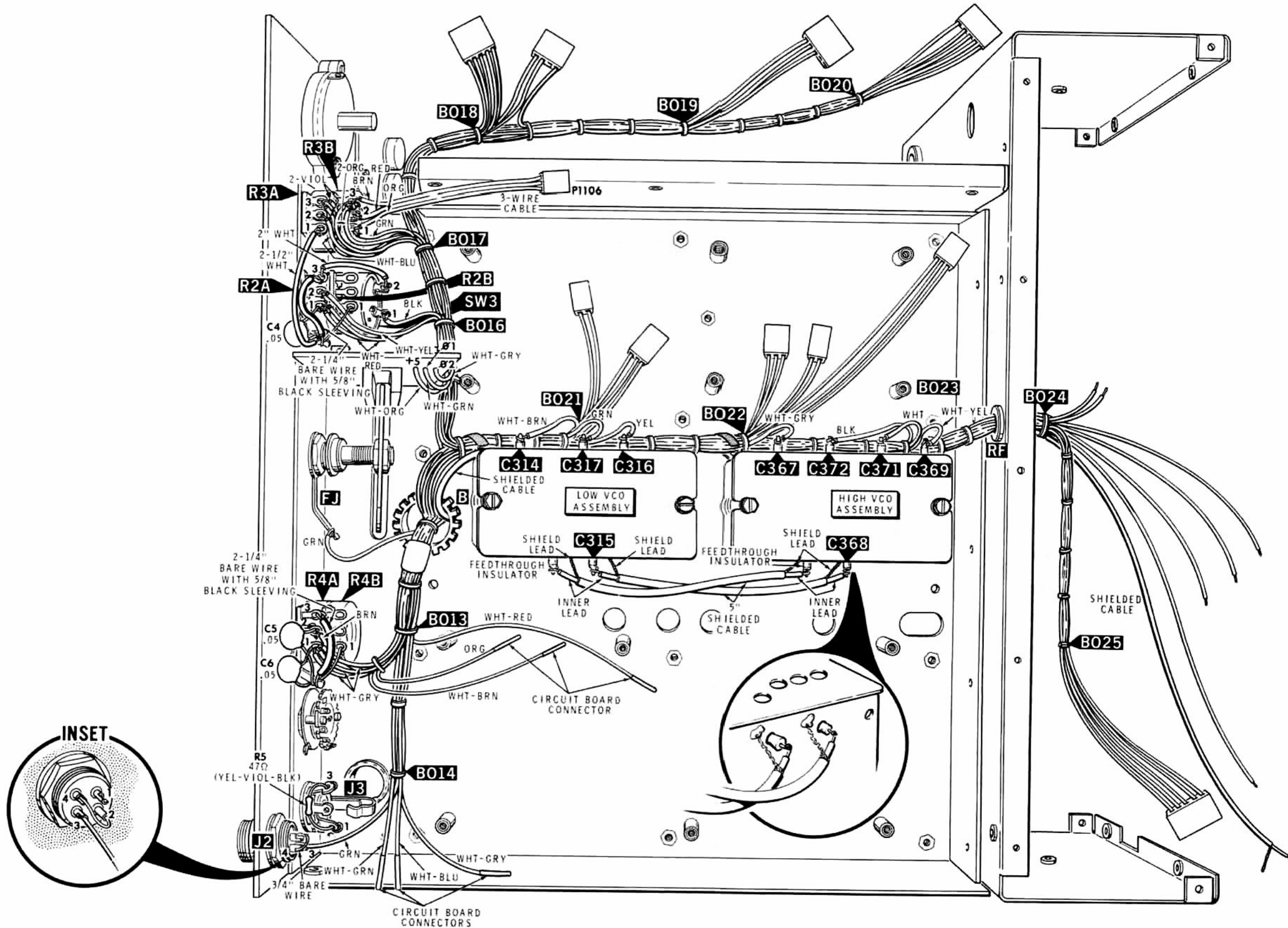
PICTORIAL 15-7



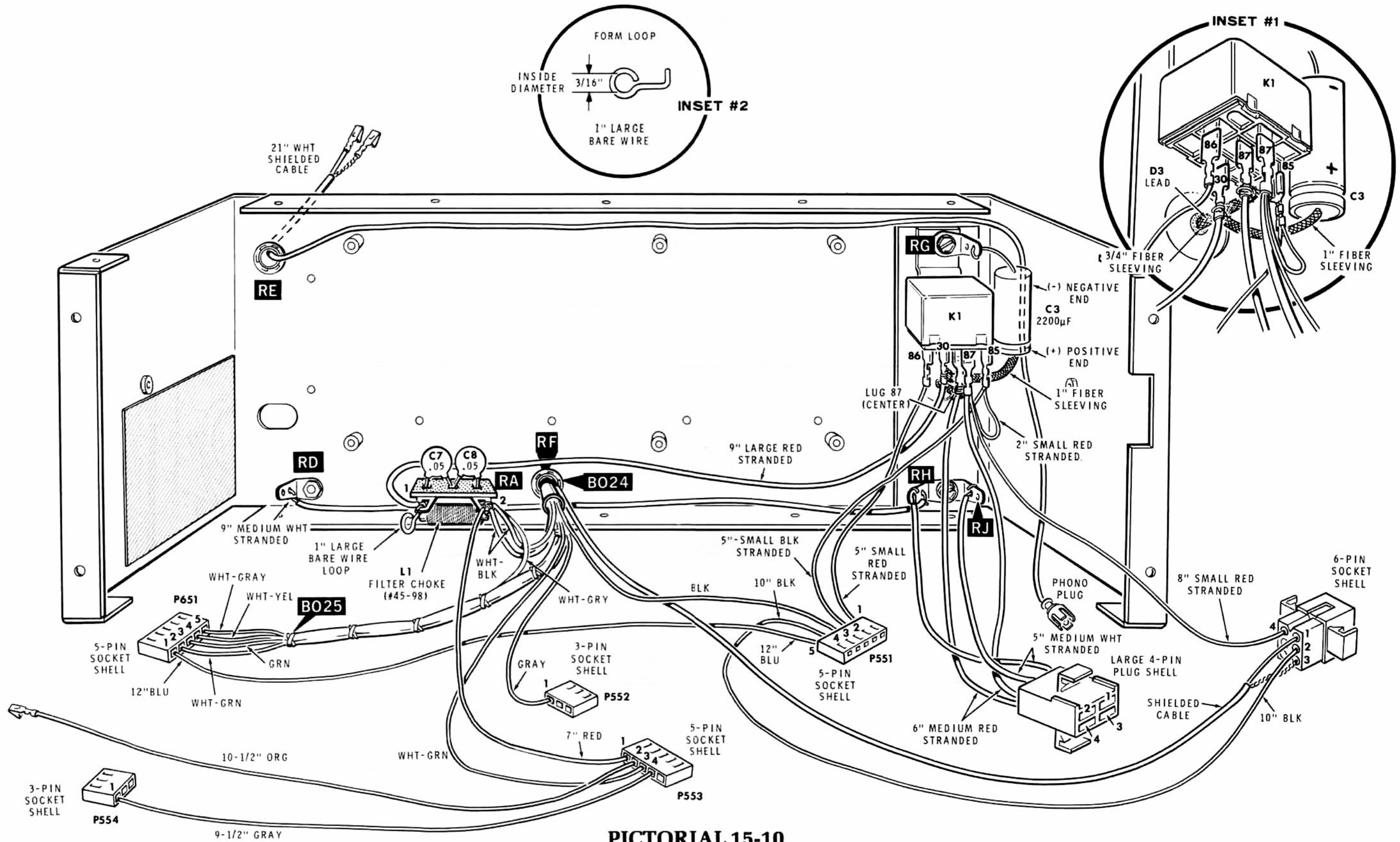




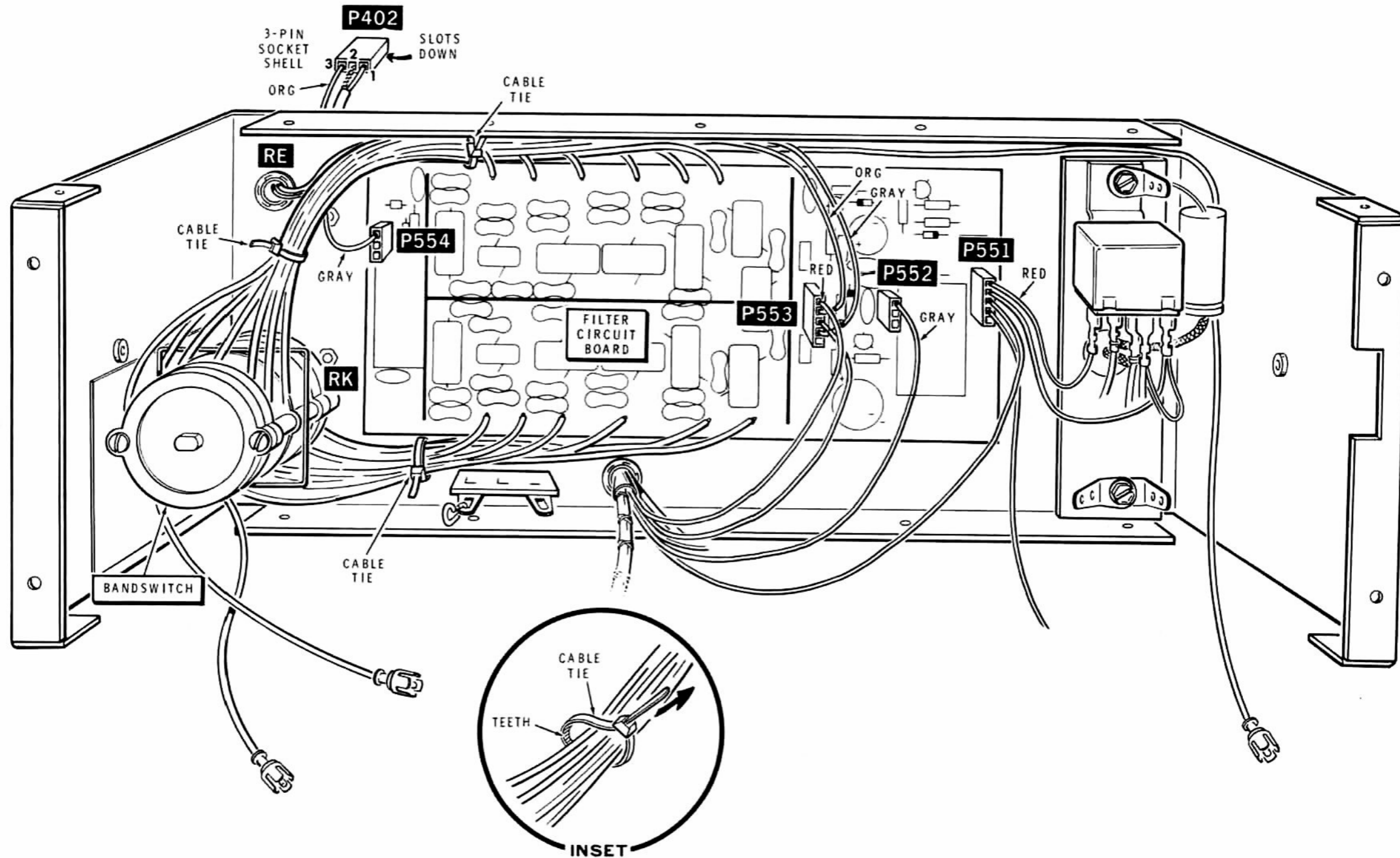
Detail 15-7A



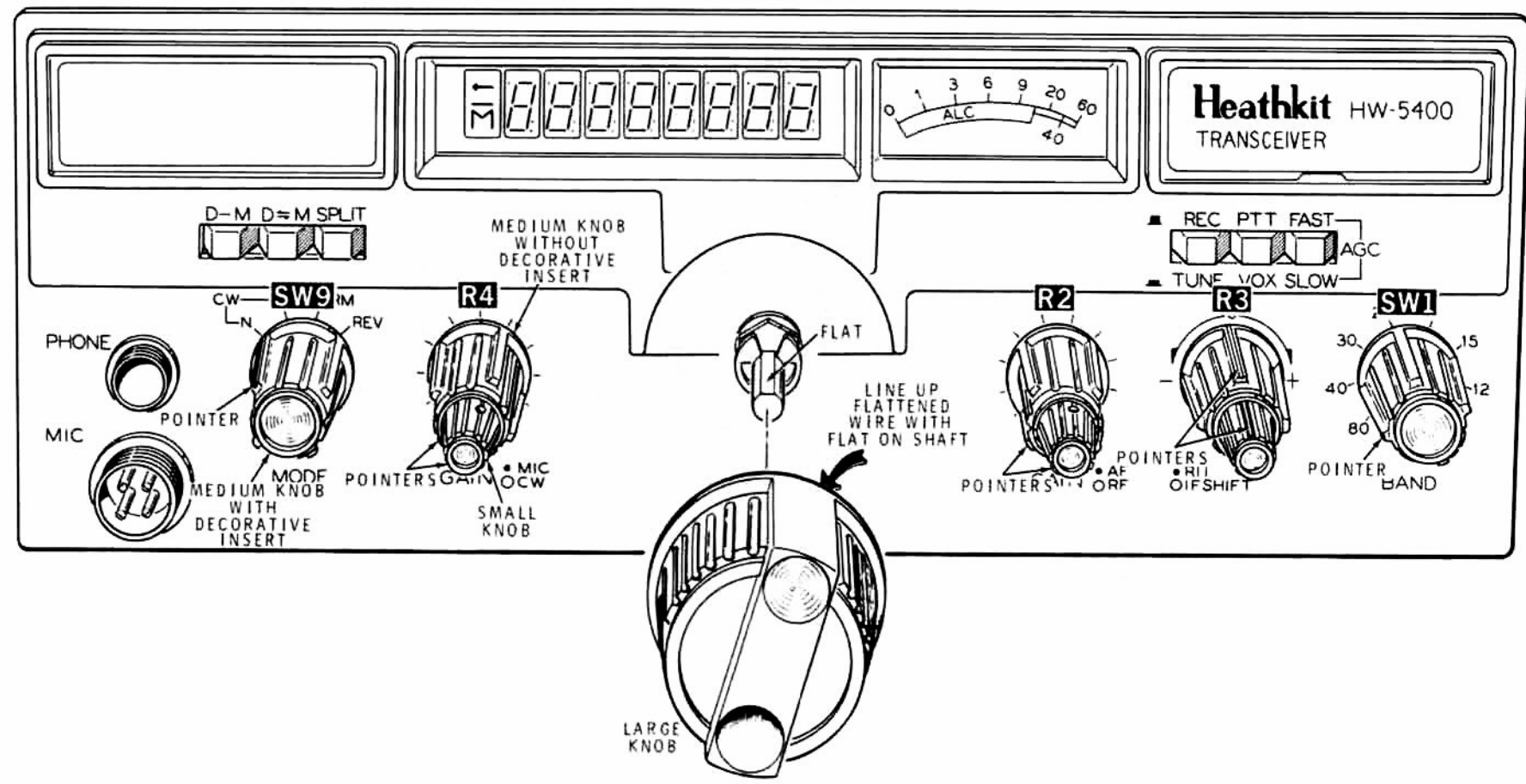
PICTORIAL 15-8



PICTORIAL 15-10

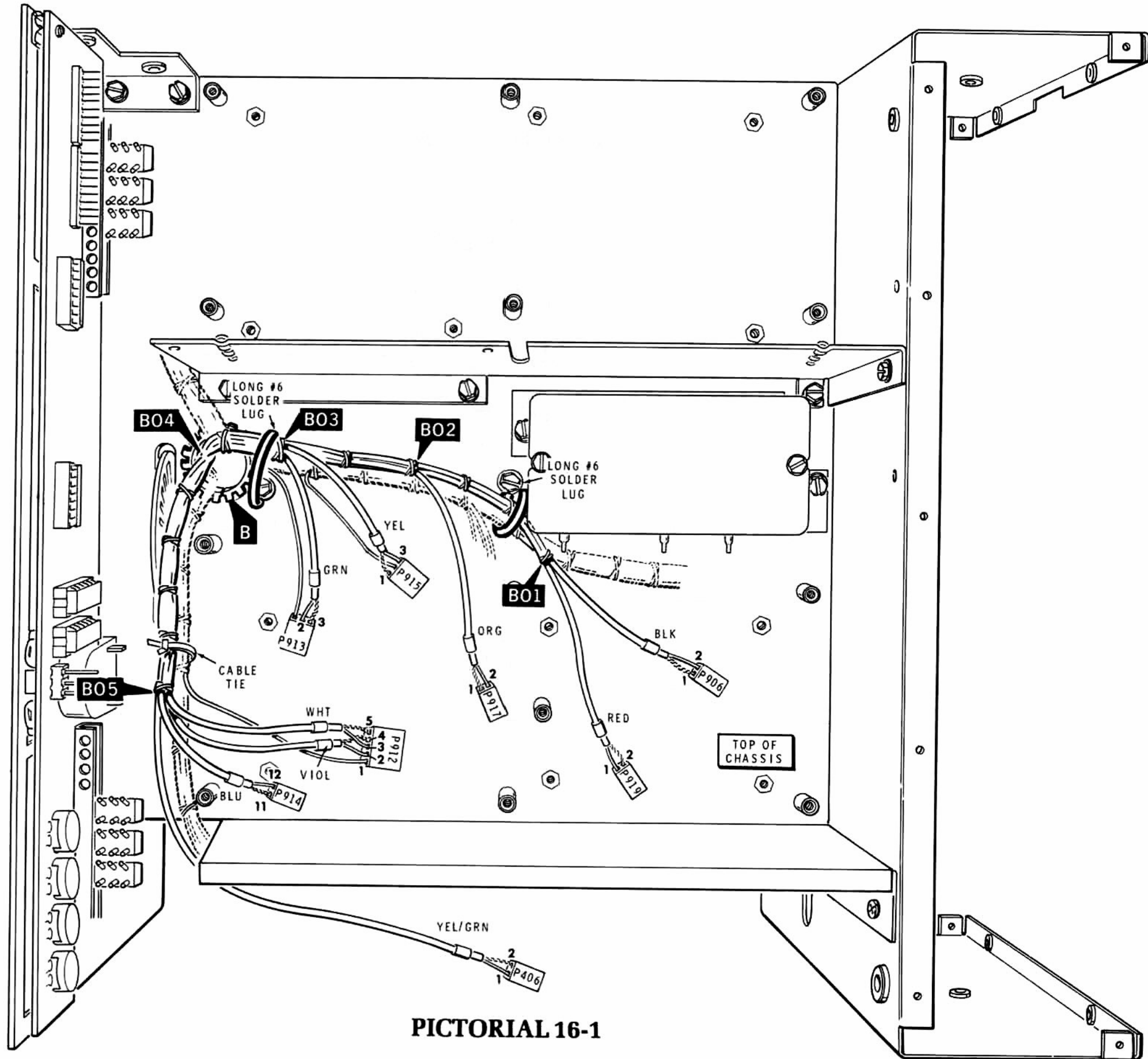


PICTORIAL 15-11



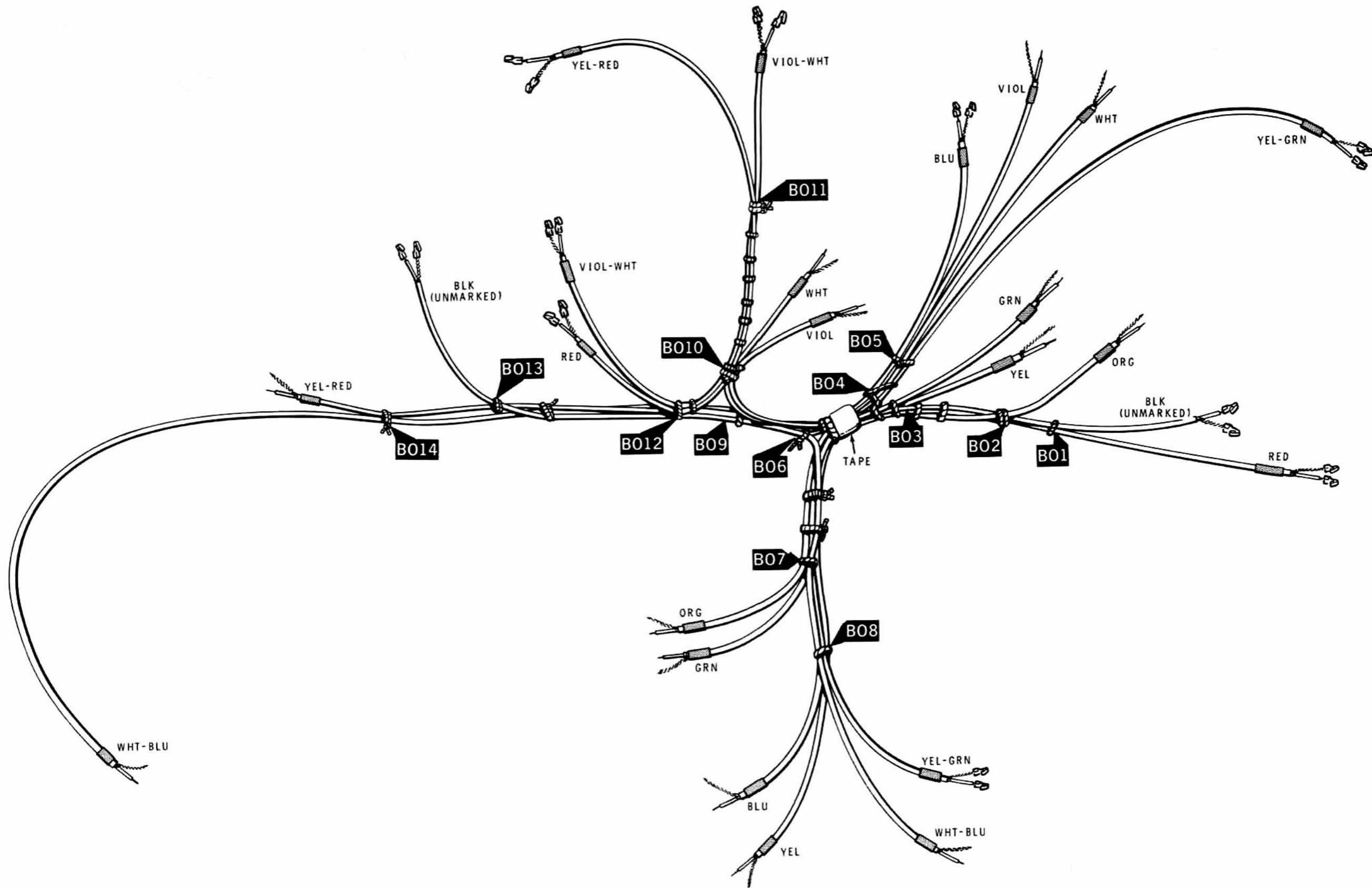
PICTORIAL 15-12



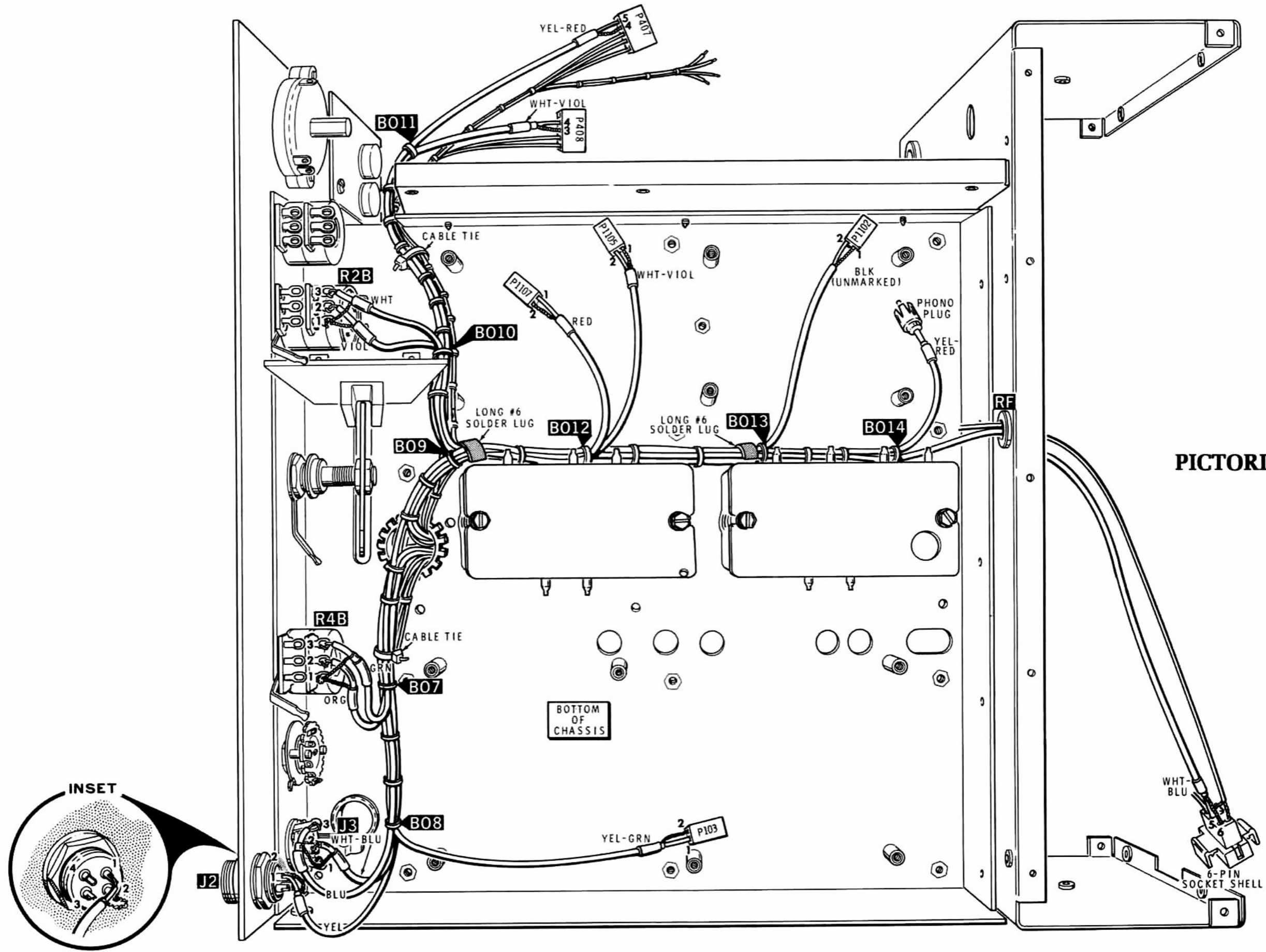


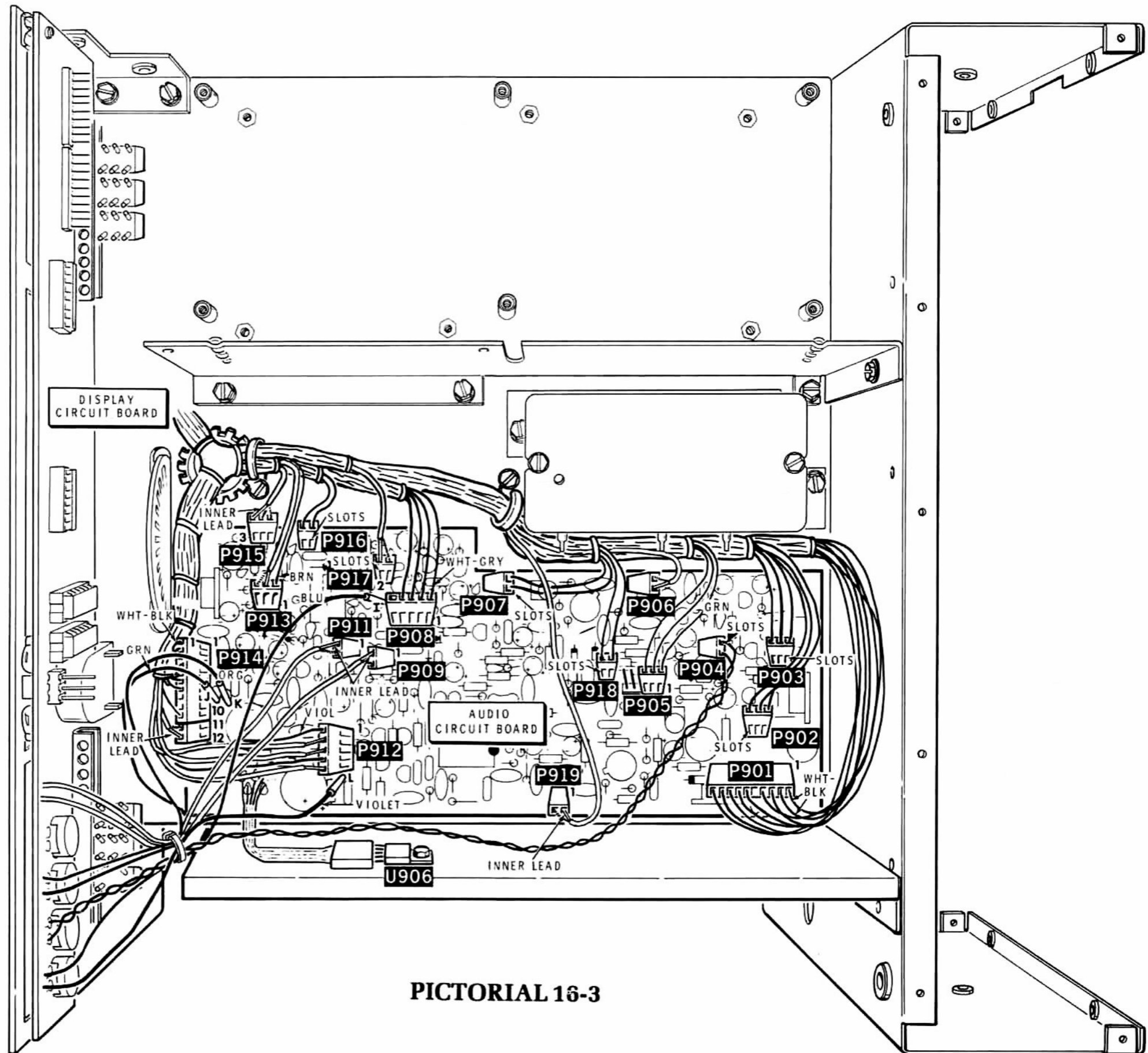
PICTORIAL 16-1



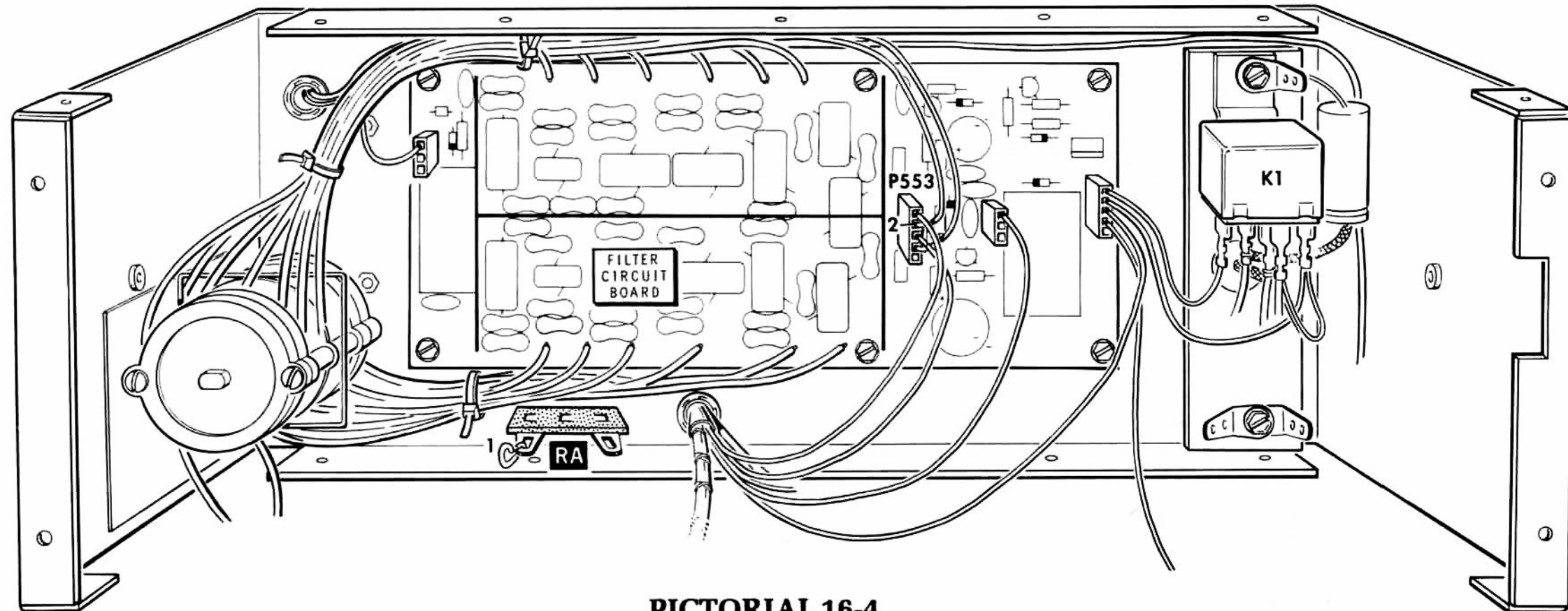
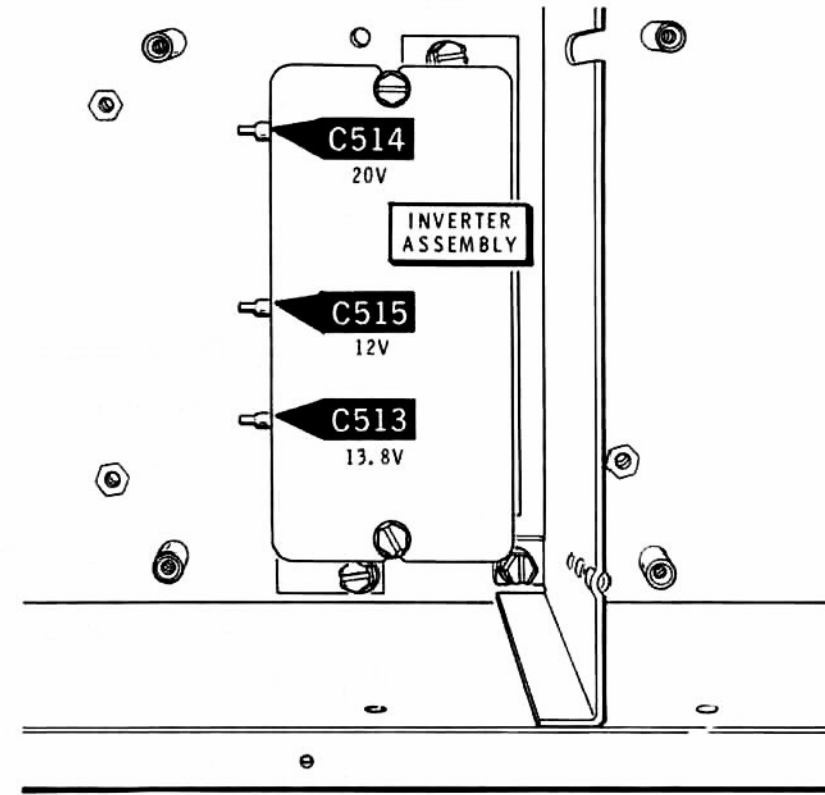
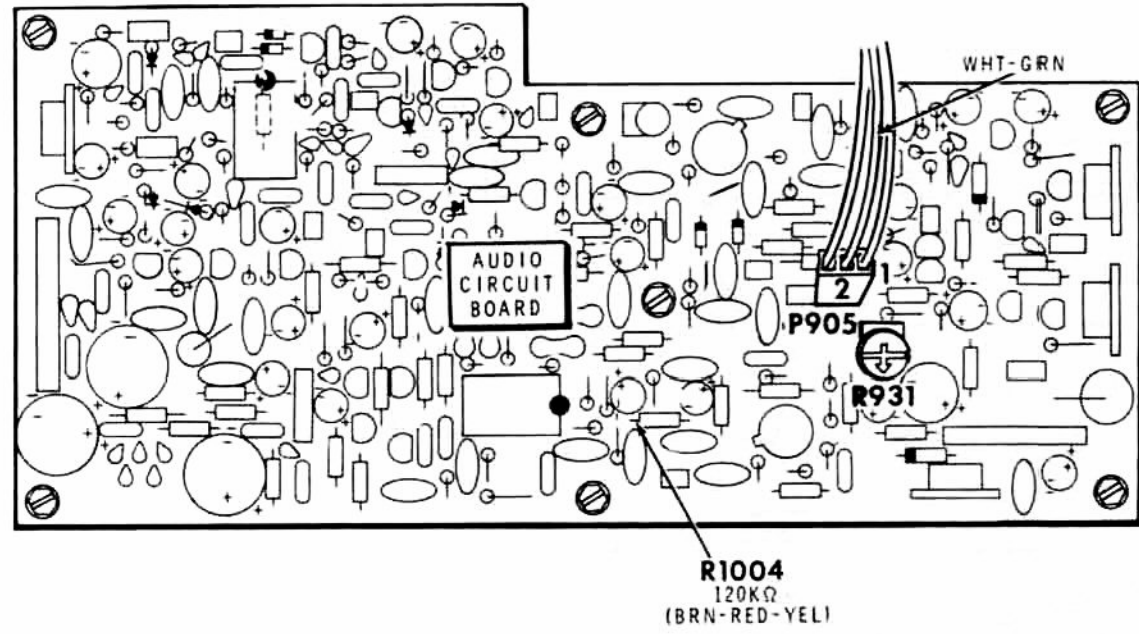


**Detail 16-1A**

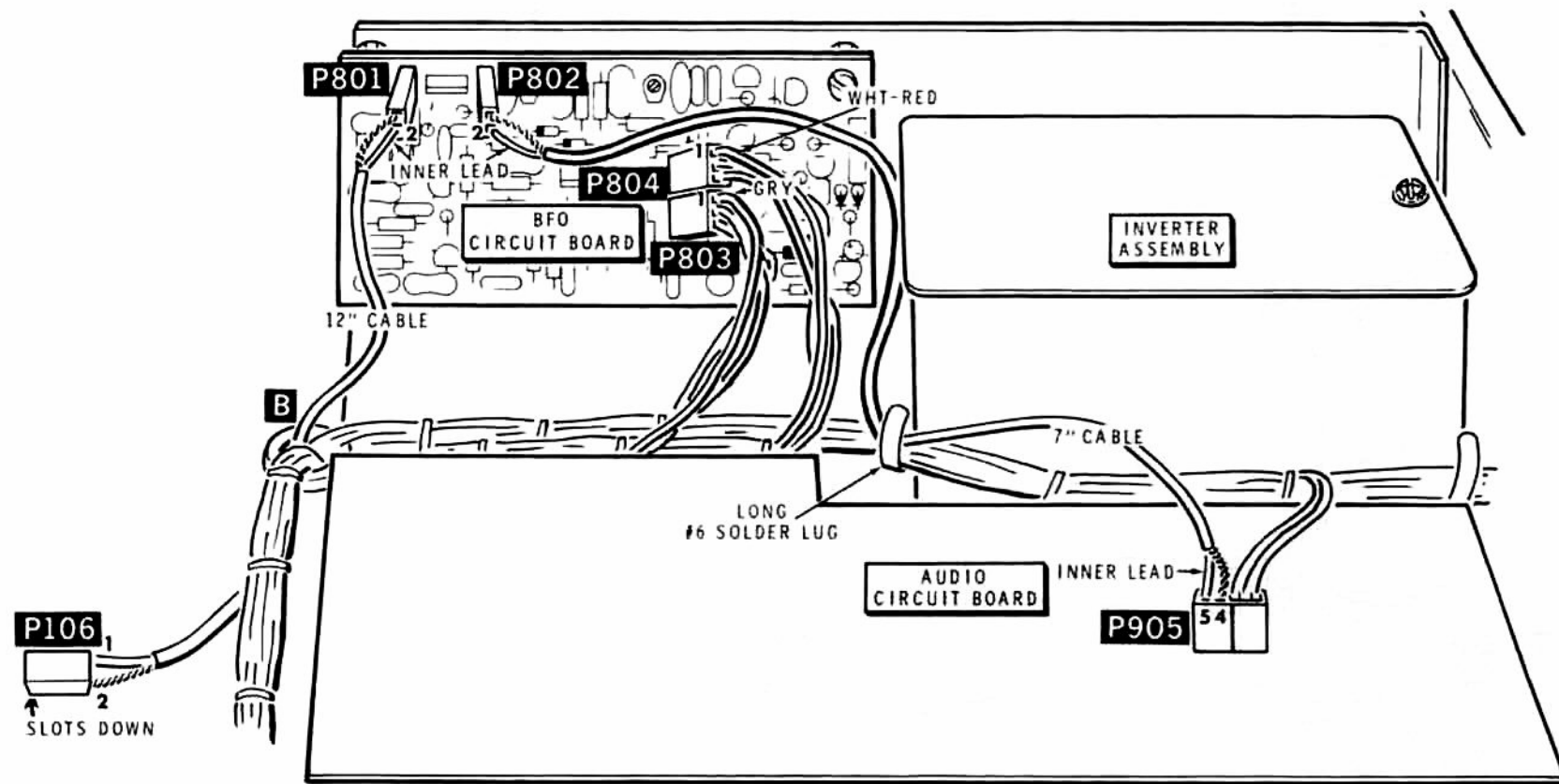




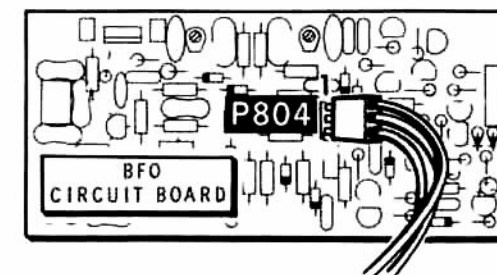
**PICTORIAL 16-3**



PICTORIAL 16-4

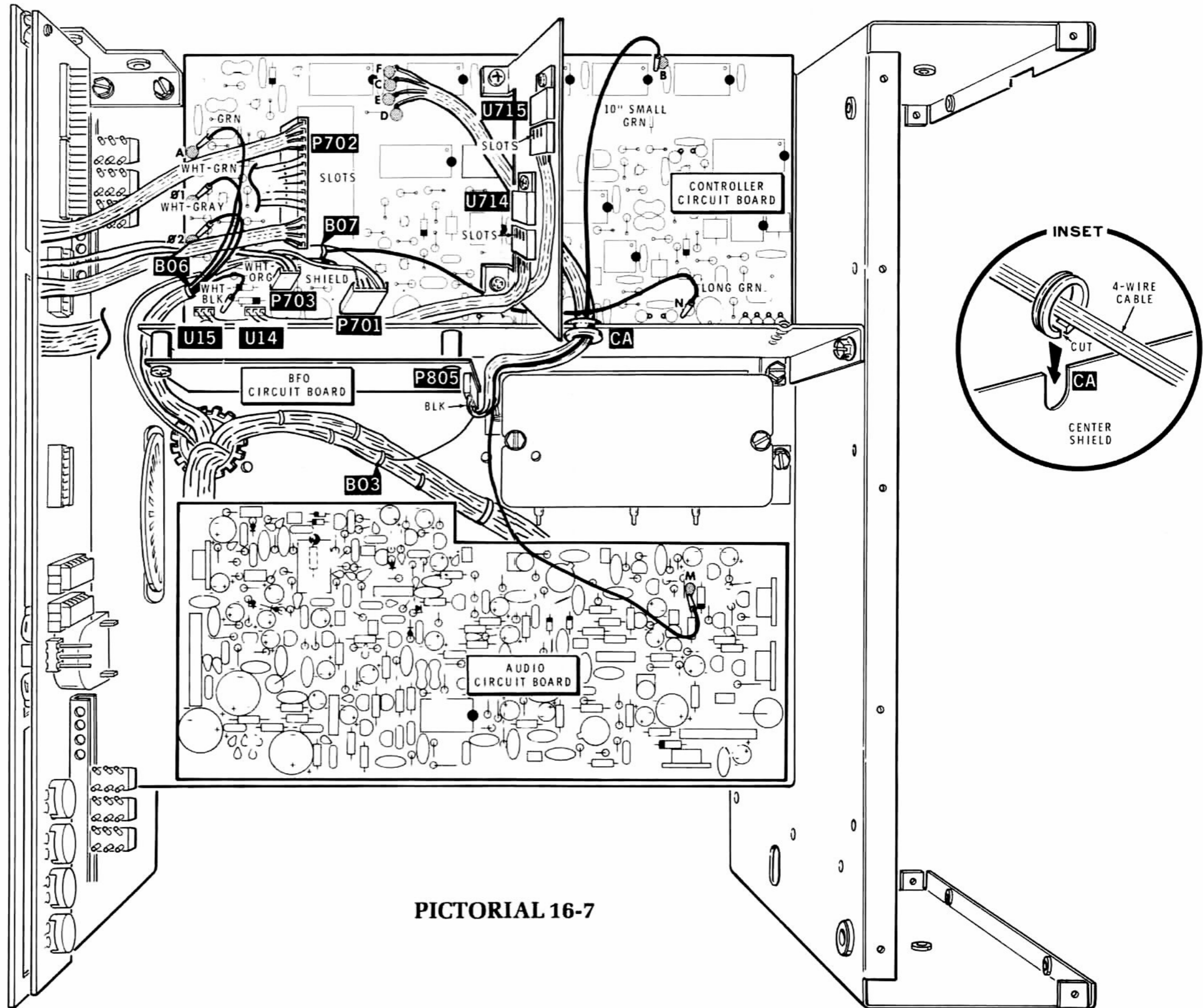


**PICTORIAL 16-5**



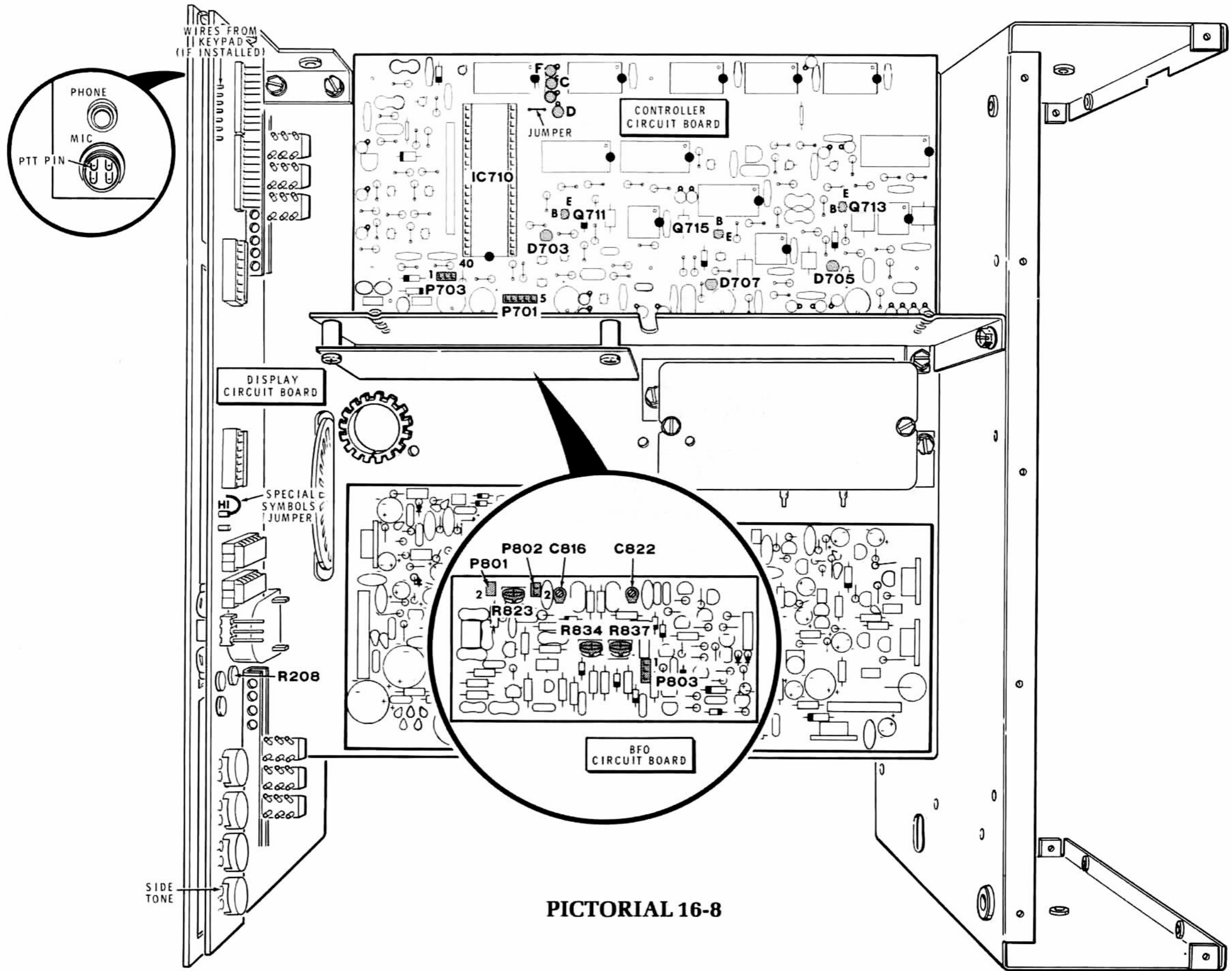
**PICTORIAL 16-6**



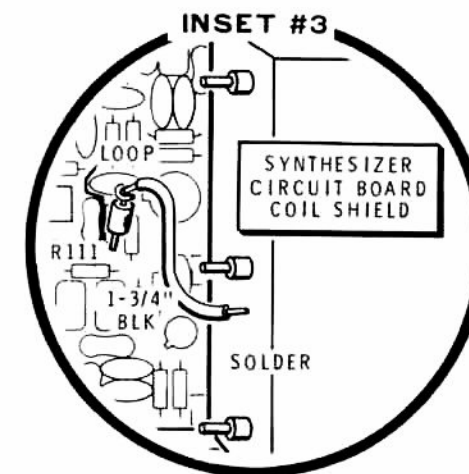
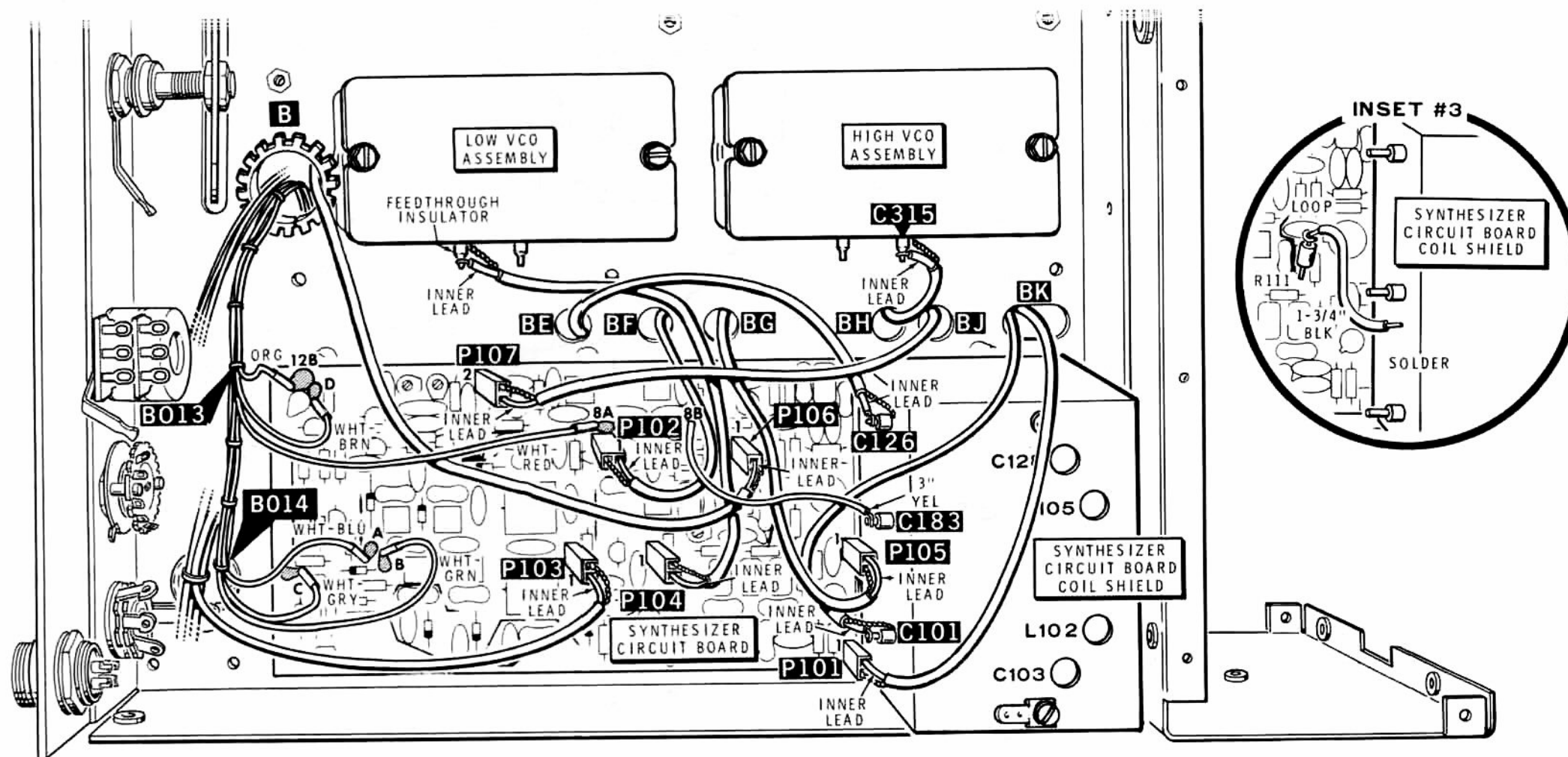
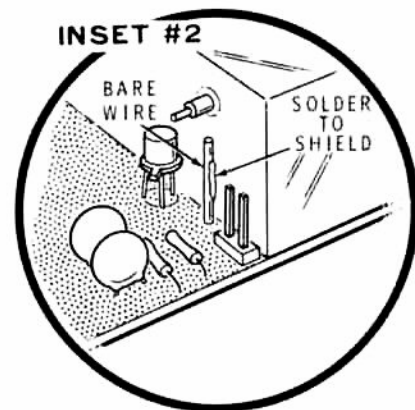
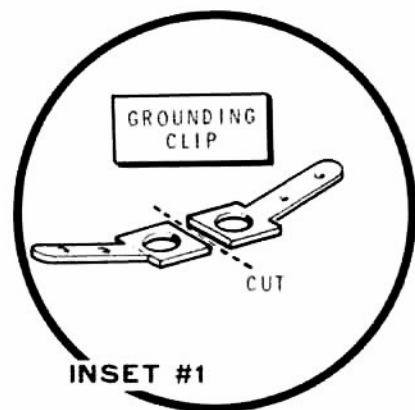


PICTORIAL 16-7

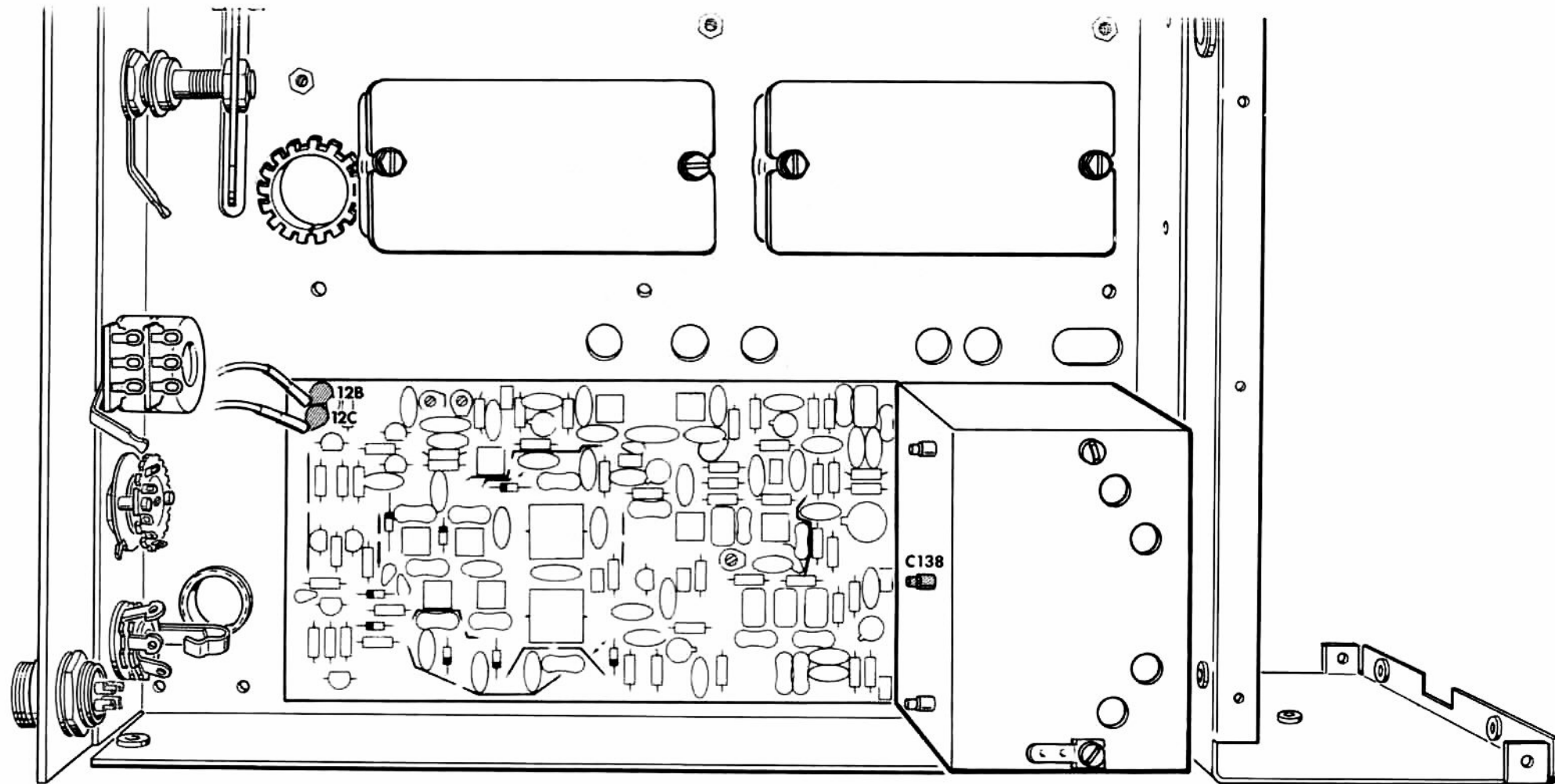




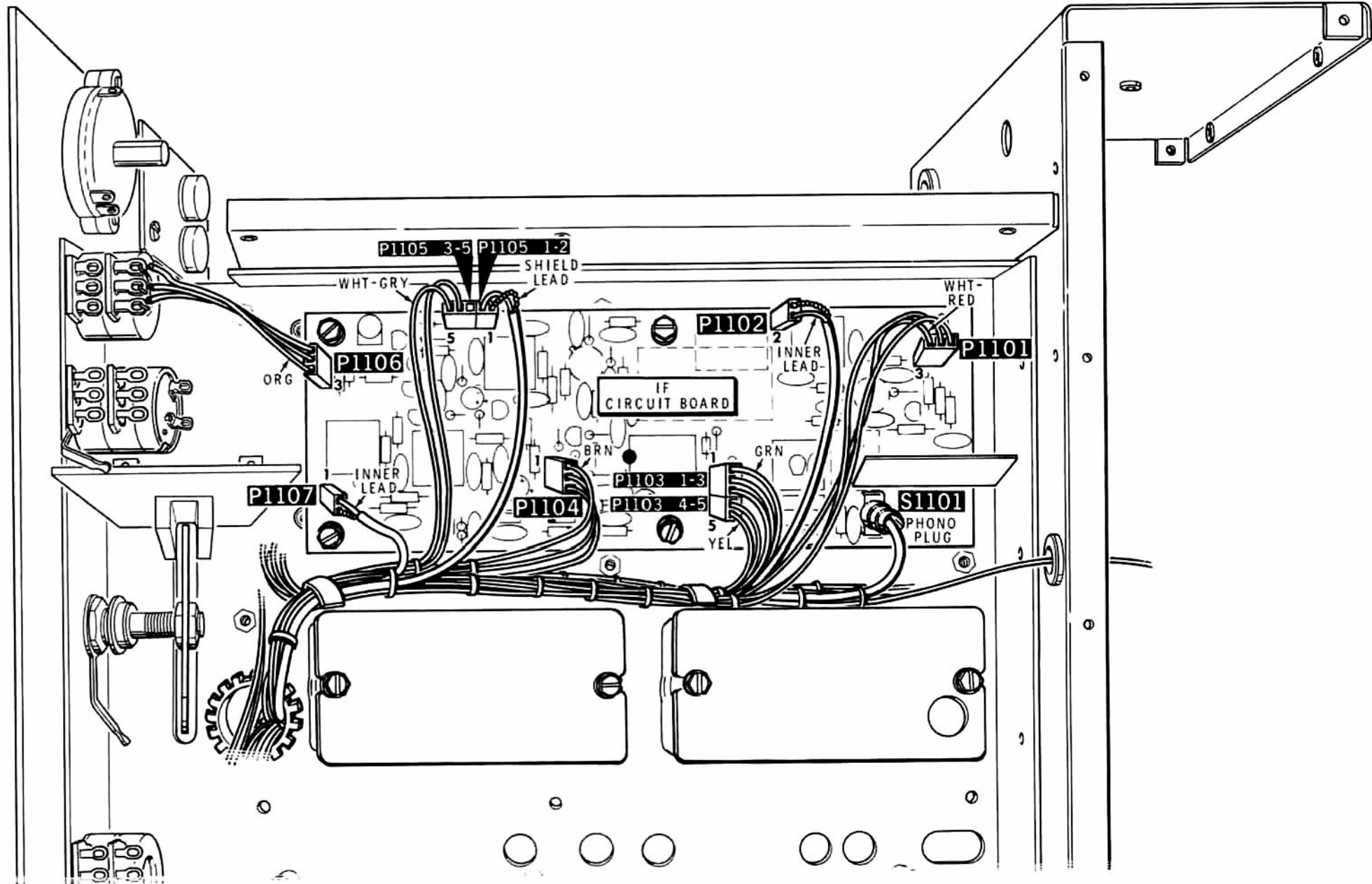
PICTORIAL 16-8



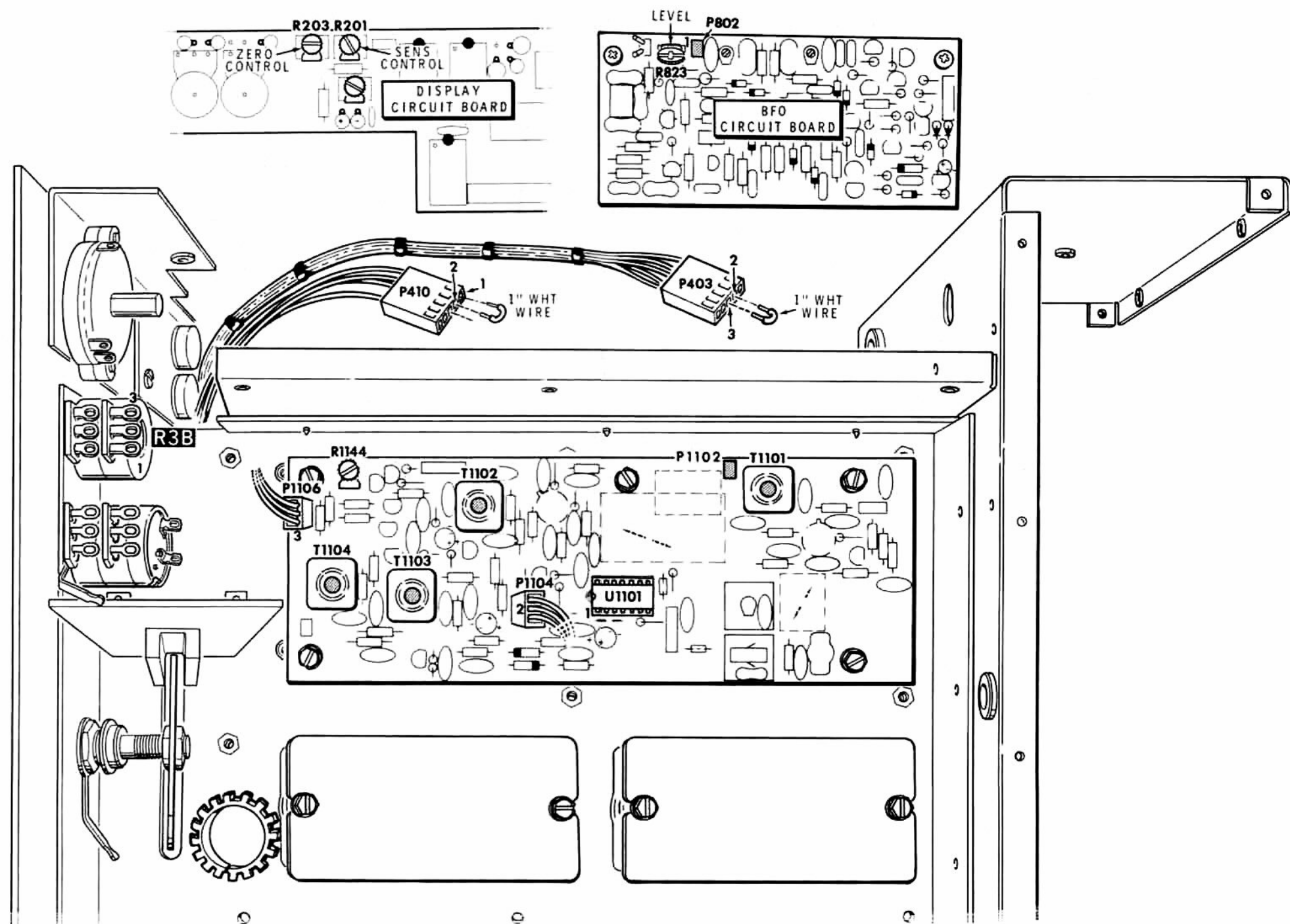
PICTORIAL 16-9



PICTORIAL 16-10

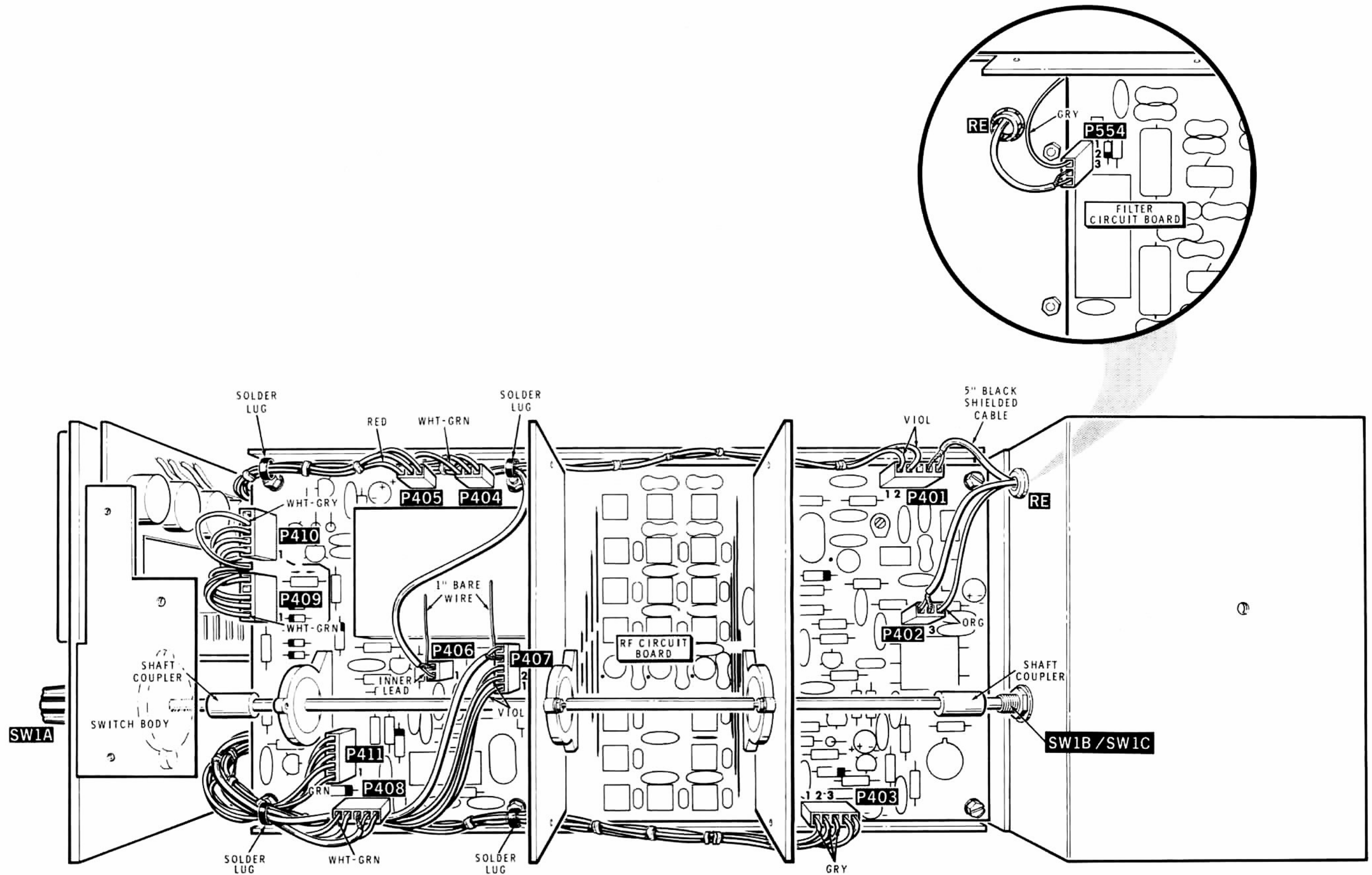


PICTORIAL 16-11

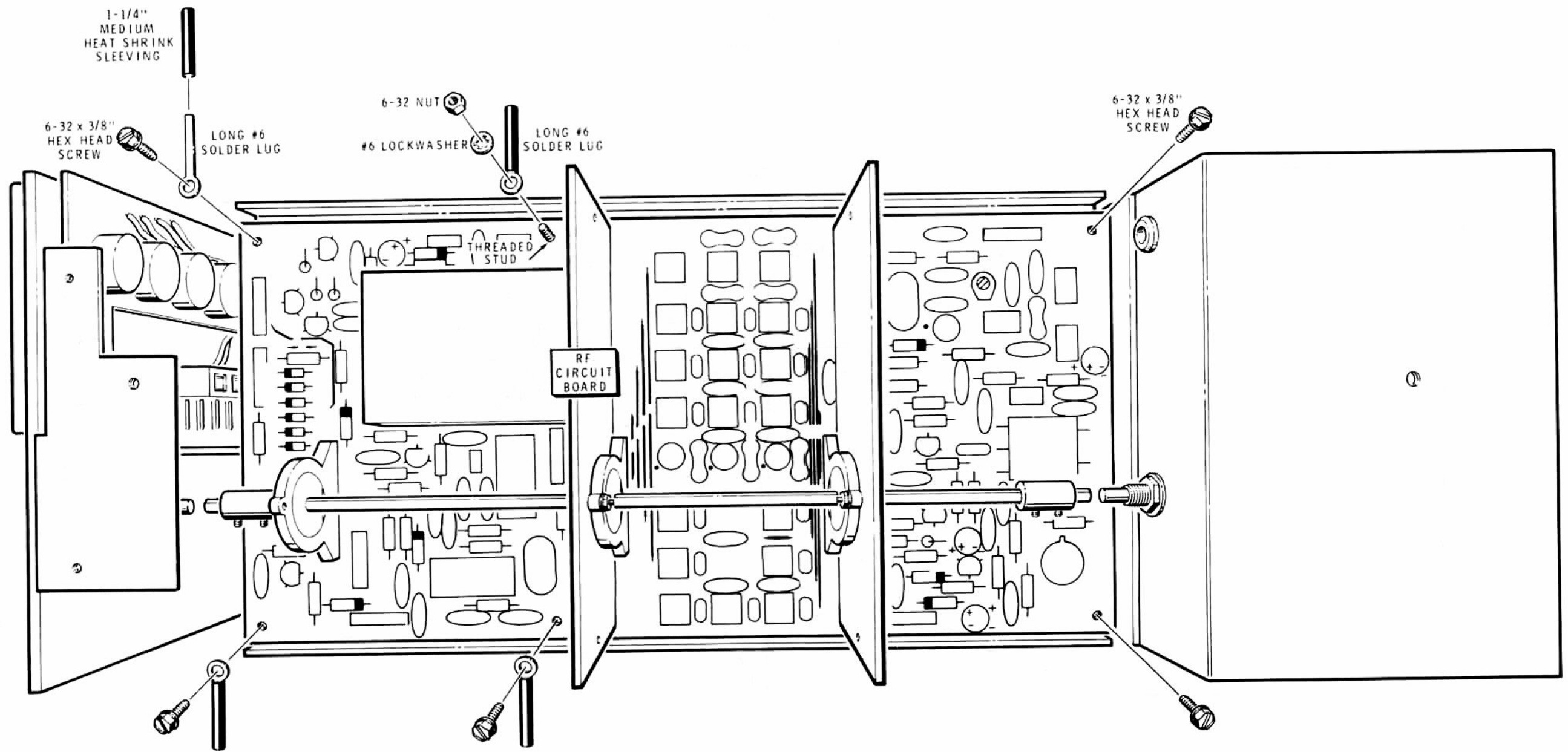


PICTORIAL 16-12

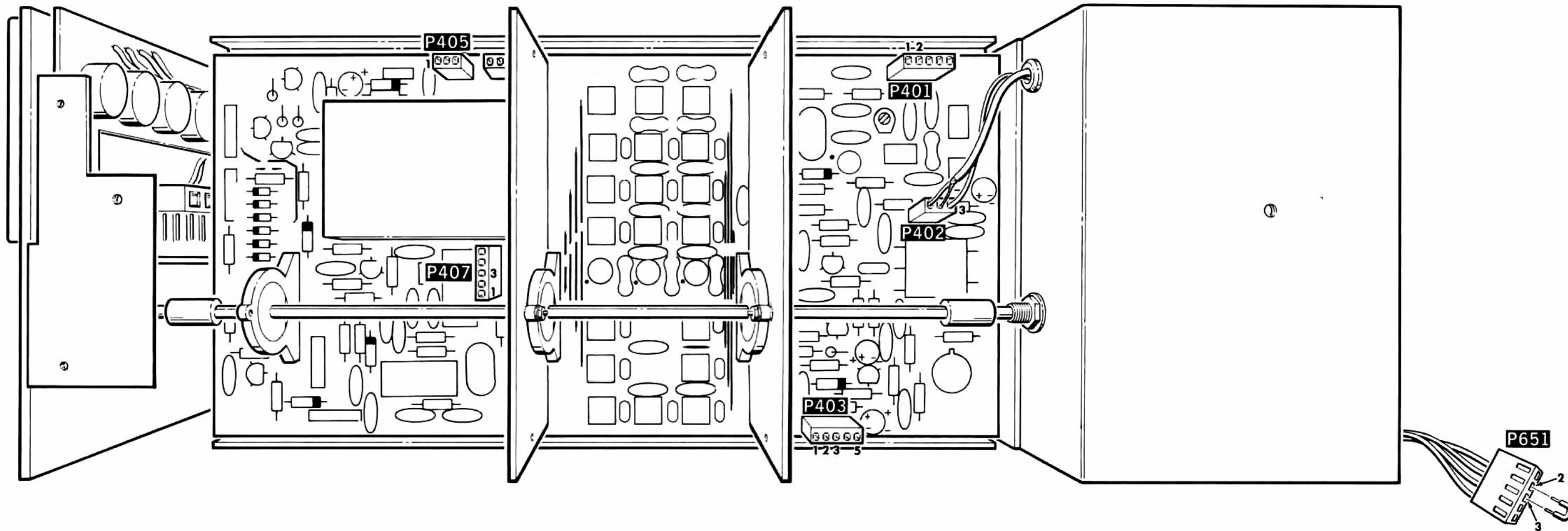




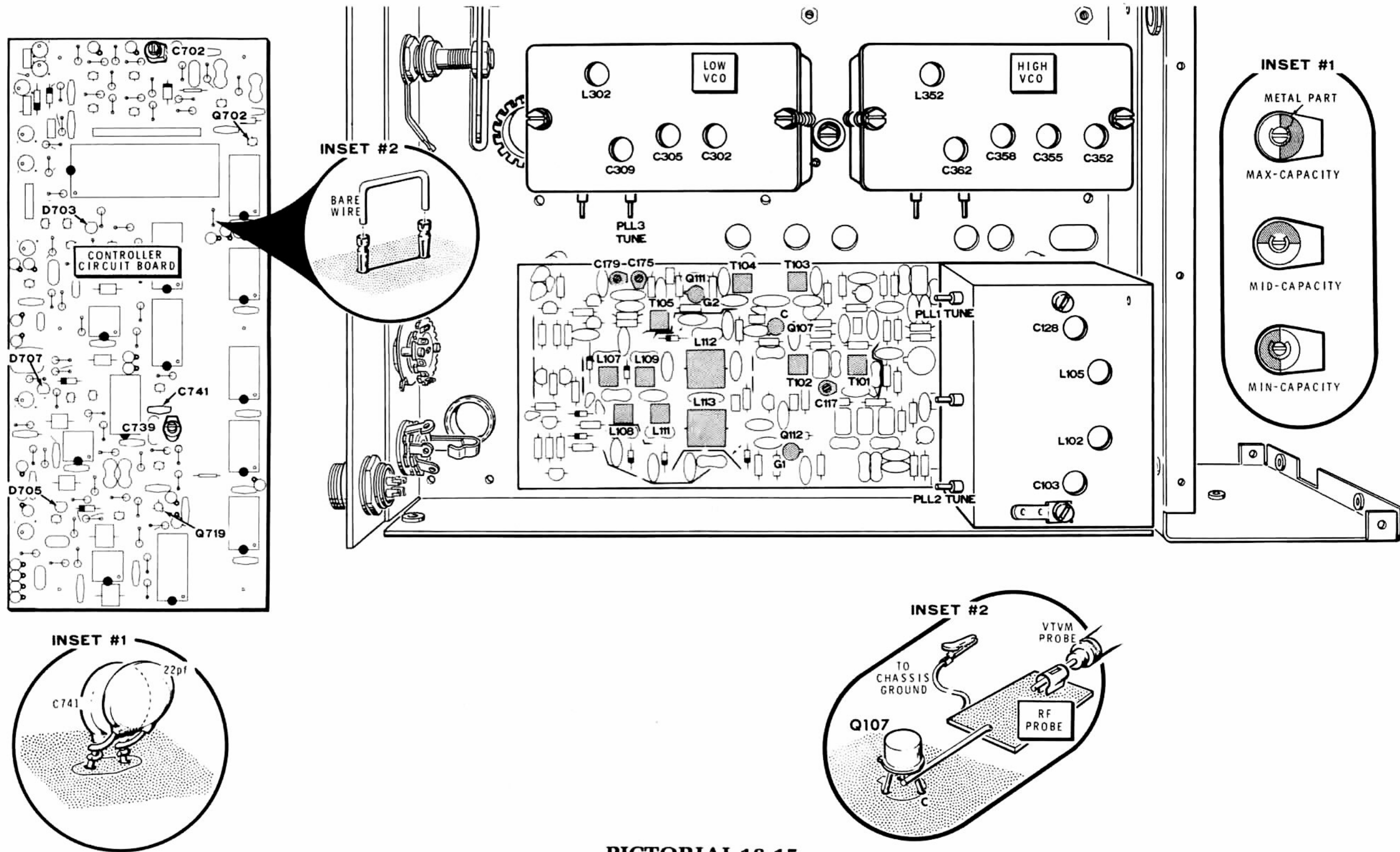
PICTORIAL 16-13



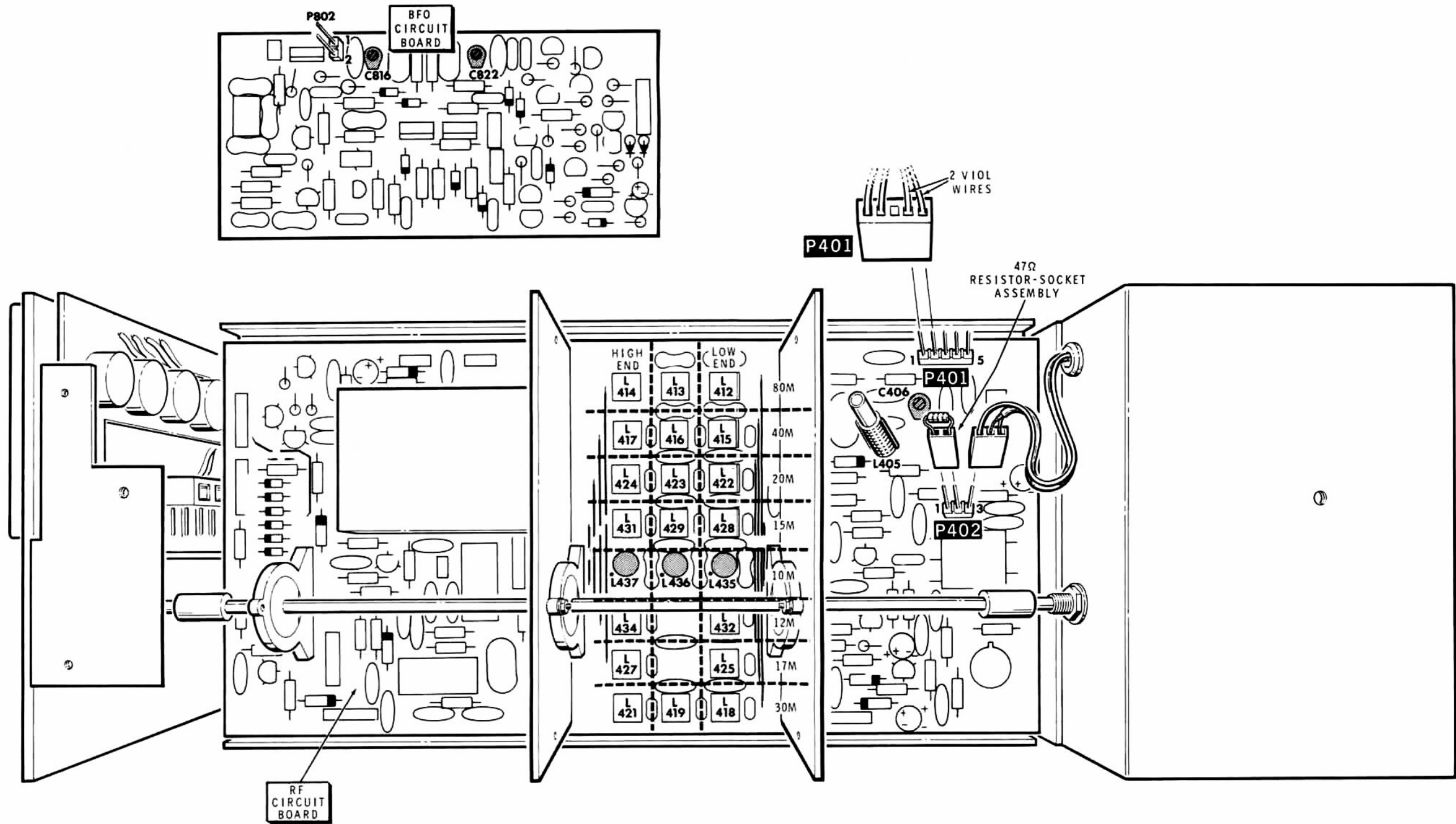
Detail 16-13C



PICTORIAL 16-14

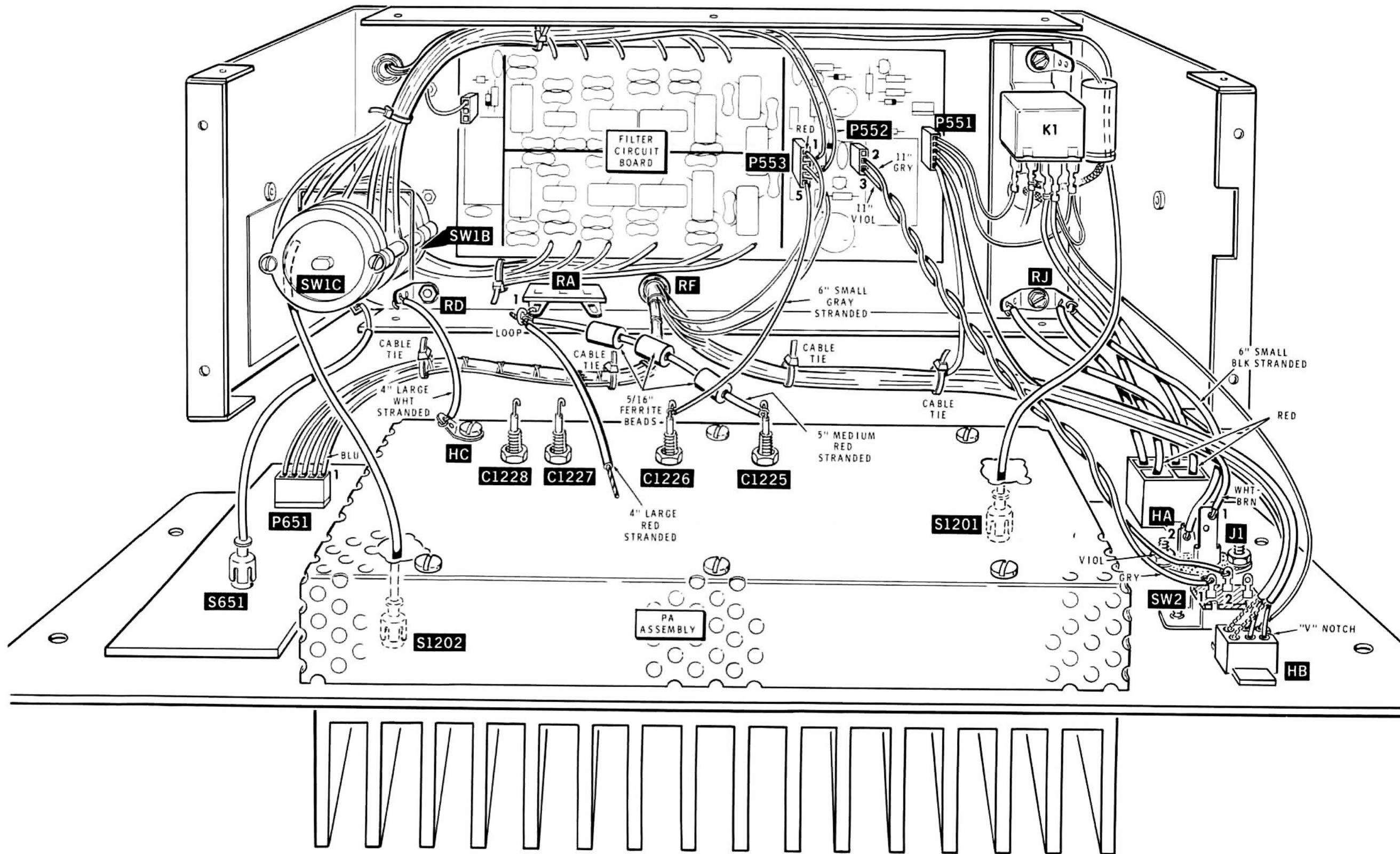


PICTORIAL 16-15

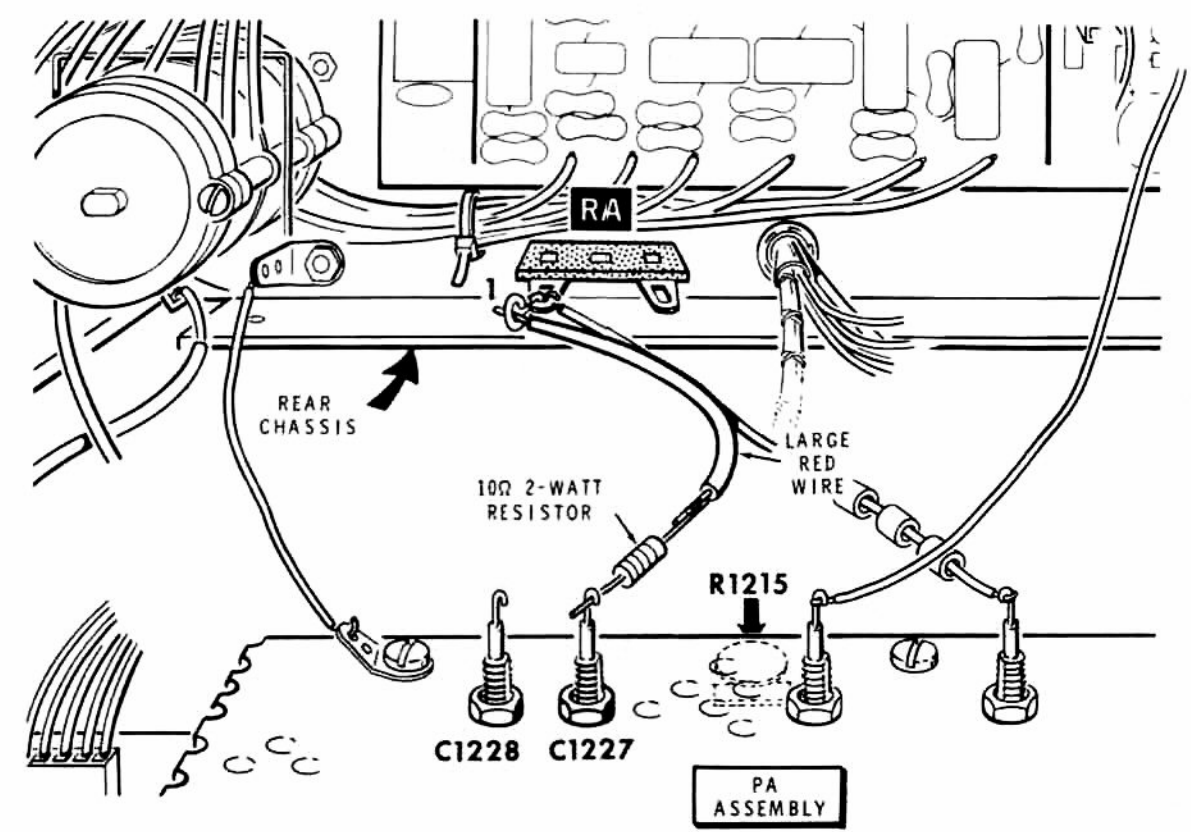
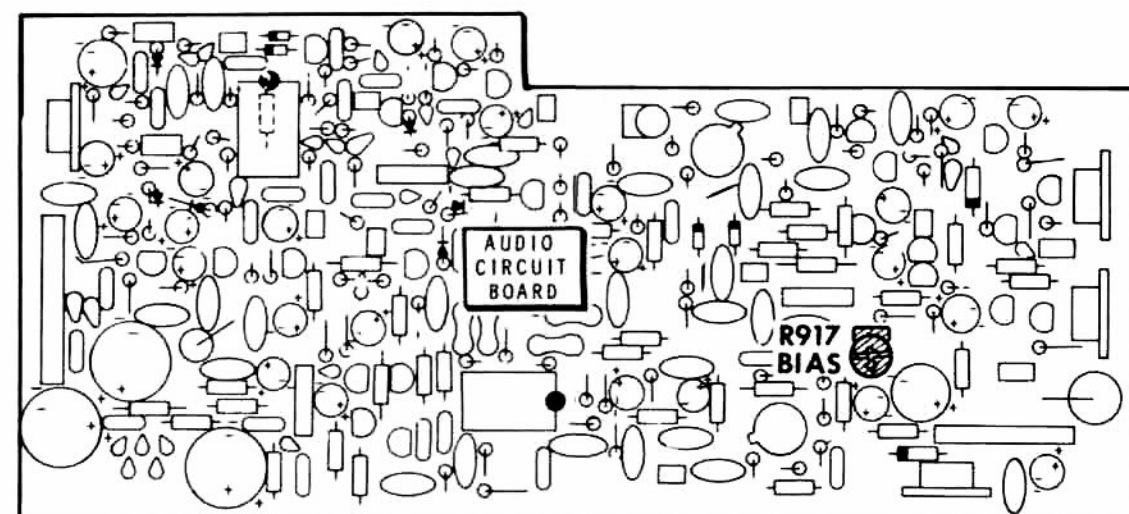


PICTORIAL 16-16

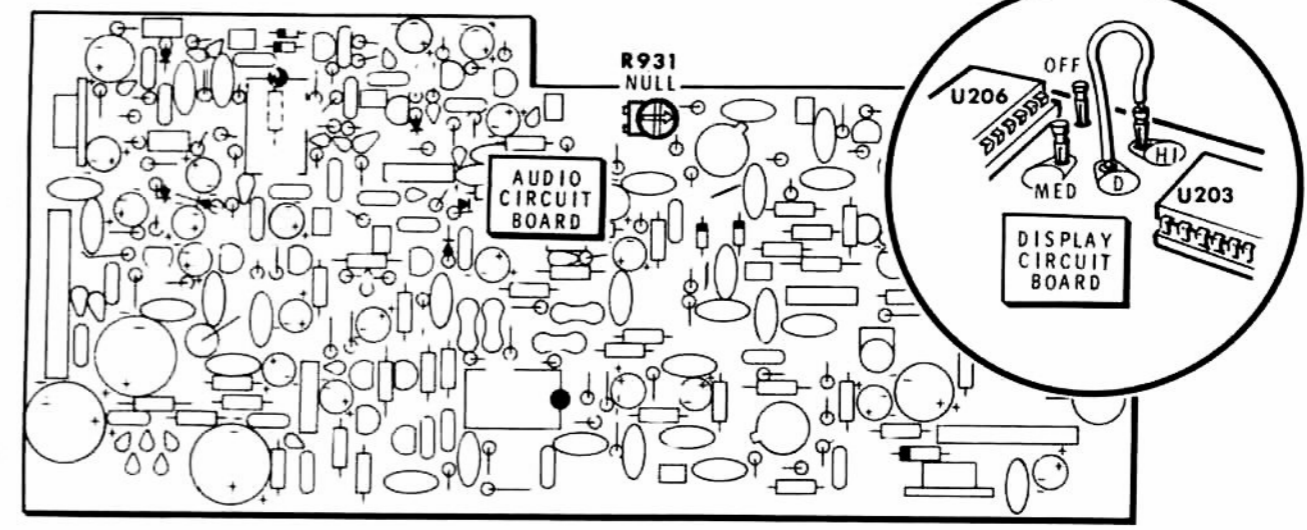
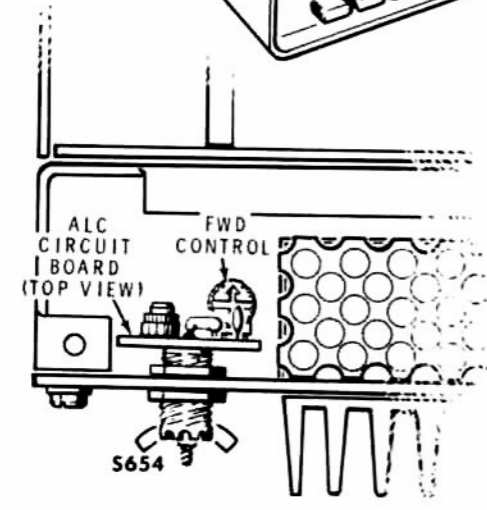
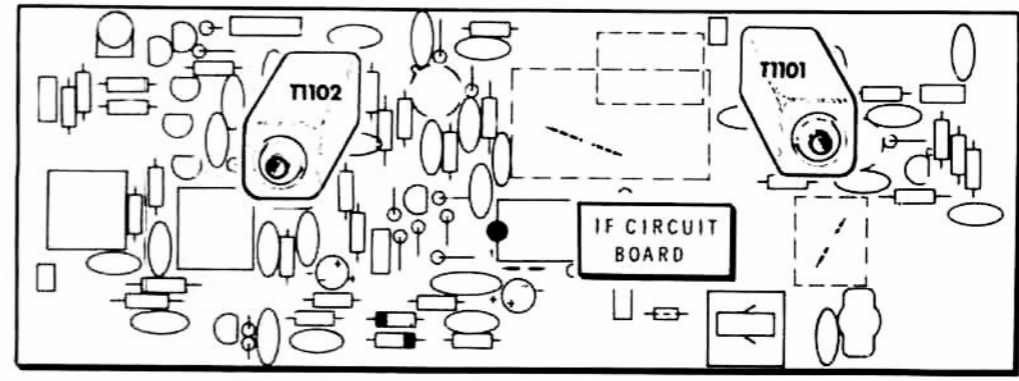
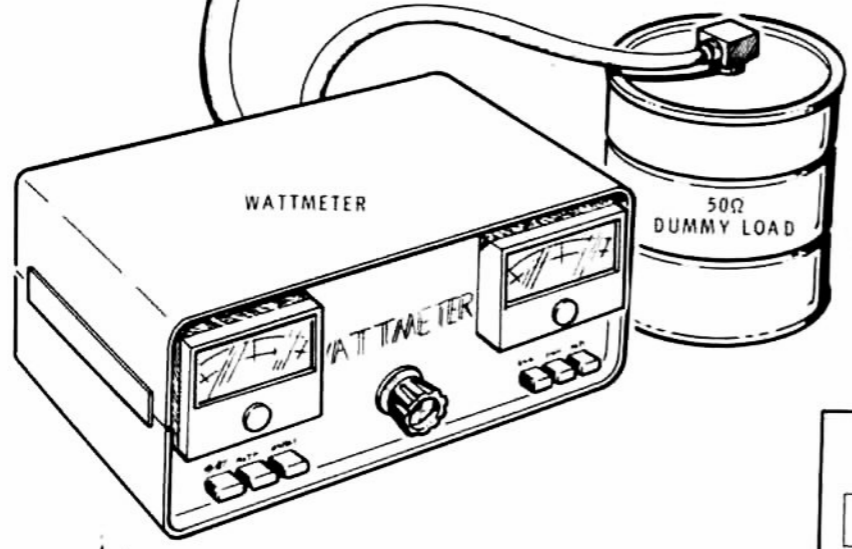
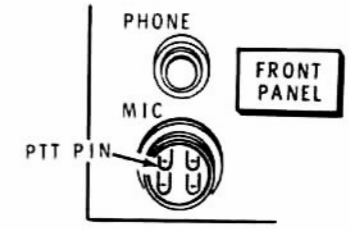
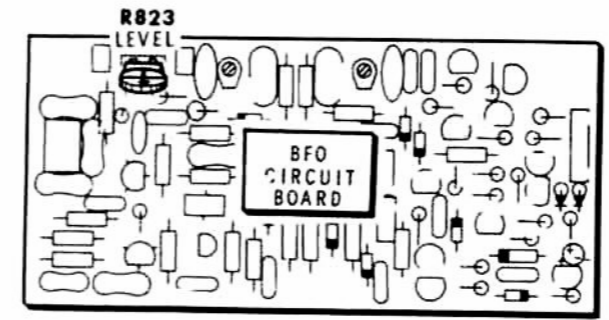
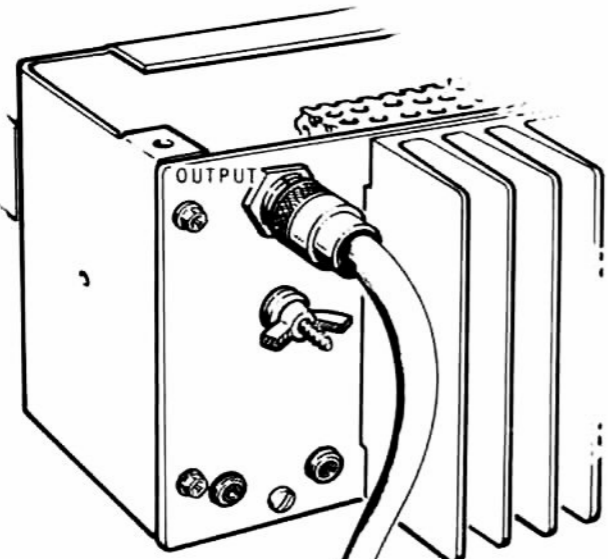




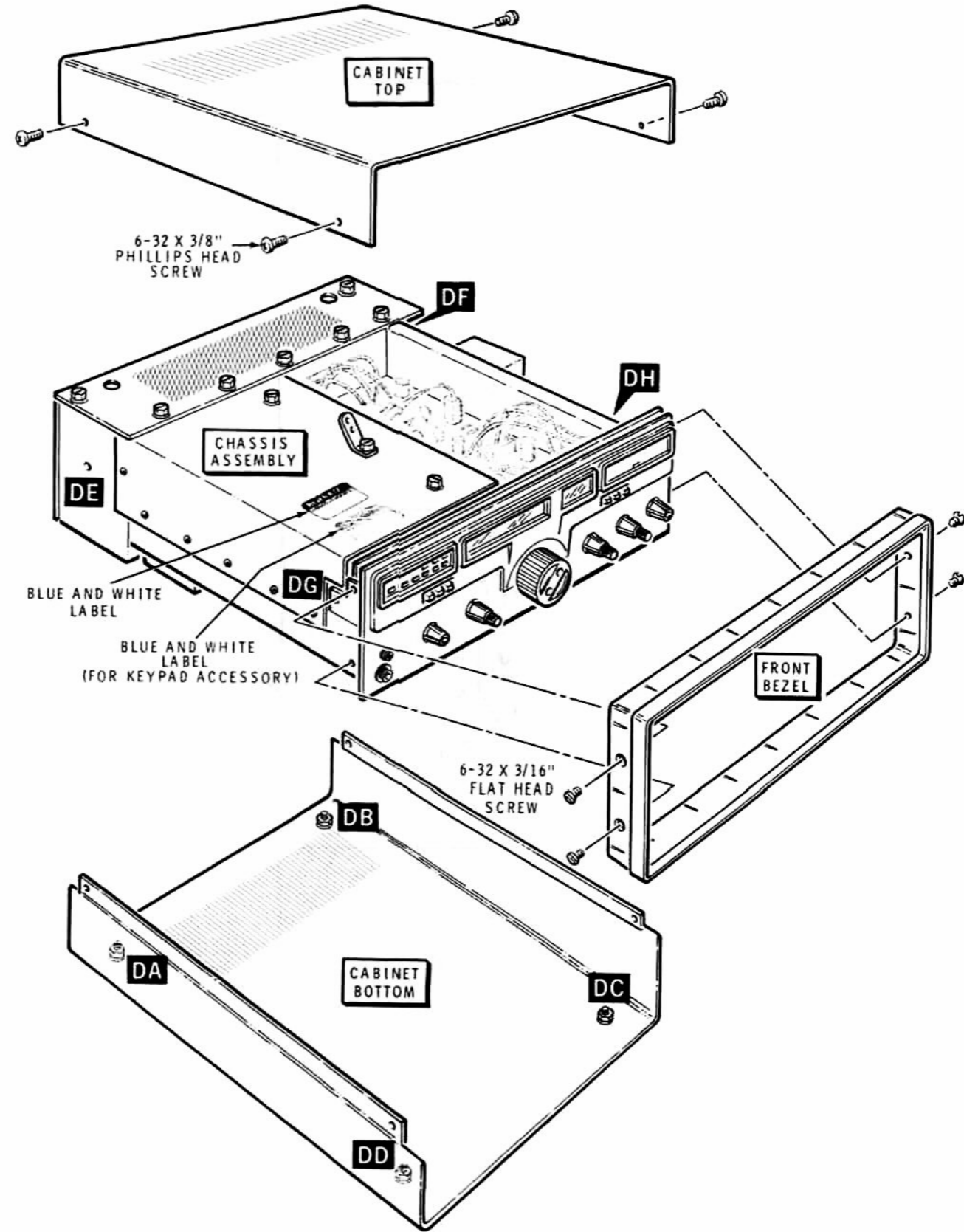
PICTORIAL 16-17



PICTORIAL 16-18



PICTORIAL 16-20



PICTORIAL 17-3