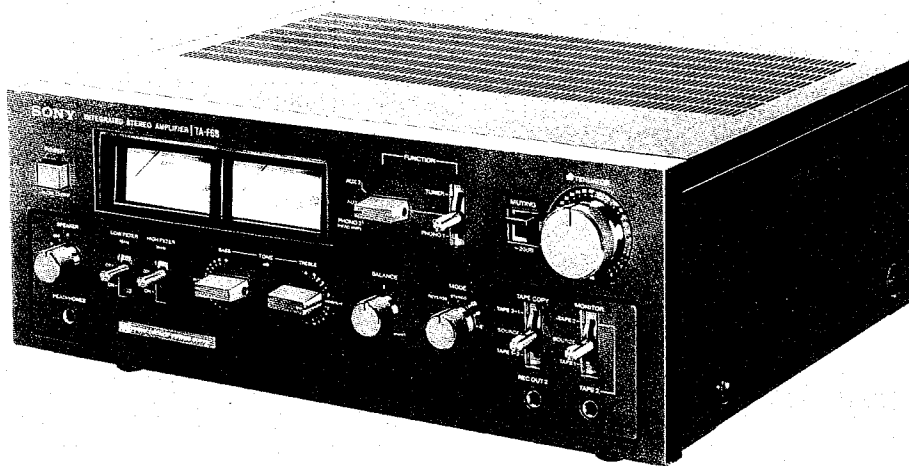


TA-F6B

*US Model
Canadian Model
AEP Model
UK Model
E Model*



INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

GENERAL

Power Requirements:	120 V ac, 60 Hz (US, Canadian model) 110 – 120 V and 220 – 240 V ac, adjustable 50/60 Hz (AEP, UK, E model)
Power Consumption:	190 W (US model) 490 VA (Canadian model) 450 W (AEP, E model) 550 W (UK model)
Dimensions:	Approx. 430 (w) x 170 (h) x 390 (d) mm 16 $\frac{7}{8}$ (w) x 6 $\frac{3}{4}$ (h) x 15 $\frac{3}{8}$ (d) inches including projecting parts and controls
Weight:	Approx. 12.5 kg, 27 lb 9 oz (net) Approx. 14.2 kg, 31 lb 5 oz (in shipping carton)

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND  MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.

POWER AMPLIFIER SECTION

Power Output and Total Harmonic Distortion:	With 8 Ω loads, both channels driven, from 20–20,000 Hz; rated 100W per channel minimum RMS power, with no more than 0.03 % total harmonic distortion from 250 mW to rated output. (US, Canadian model)
Continuous RMS Power Output:	At 20 Hz–20 kHz 100W + 100W (8 Ω) According to DIN 45500 100W + 100W (8 Ω) (AEP, UK, E model)
Power Bandwidth (IHF):	5 Hz – 35 kHz (50W output, 0.03 % THD, 8 Ω) (AEP, UK, E model)
Harmonic Distortion:	Less than 0.03 % at rated output Less than 0.015 % at 1 W/10 W output
Intermodulation (IM) Distortion:	Less than 0.03 % at rated output Less than 0.008 % at 1 W/10 W output (60 Hz : 7 kHz = 4 : 1)
Frequency Response:	DC – 100 kHz $^{+0}_{-1}$ dB

– Continued on page 2 –

SONY®

SERVICE MANUAL

S/N Ratio: Greater than 115 dB, short-circuited input
Residual Noise: Less than 50 μ V (8 Ω , network A)
Damping Factor: 50 (8 Ω , 1 kHz)

Filters: LOW
 6 dB/octave attenuation below 15 Hz
 HIGH
 6 dB/octave attenuation above 9 kHz

Inputs: POWER INPUT
 Sensitivity 1.3 V (4.5 dB), for rated output
 Impedance 50 k Ω

Residual Noise: $-\infty$ (infinity)

Outputs: SPEAKER terminals A, B
 Accept speakers of 4 — 16 Ω
 (US, Canadian model)
 Accept speakers of 8 — 16 Ω
 (AEP, UK, E model)
 HEADPHONES jack
 Accepts low and high-impedance stereo headphones

Inputs:

	Sensitivity	Impedance	Phono overload (1 kHz)	S/N (weighting network, input level)
PHONO 1	2.5 mV (−50 dB)	50 k Ω	250 mV	85 dB (A, 2.5 mV)
PHONO 2 (HEAD AMP)	0.08 mV (−80 dB)	100 Ω	8 mV	70 dB (A, 0.08 mV)
TUNER AUX 1, 2 TAPE 1, 2	150 mV (−14.5 dB)	50 k Ω	—	105 dB (A, 150 mV)

PREAMPLIFIER SECTION

Harmonic Distortion: Less than 0.003 %
 (TUNER $\rightarrow$ PRE OUTPUT, 10 V output, 1 kHz)

Intermodulation (IM) Distortion: Less than 0.003 %
 (60 Hz : 7 kHz = 4 : 1) (TUNER $\rightarrow$ PRE OUTPUT, 10 V output)

Frequency Response: PHONO 1, 2 RIAA equalization $\pm$ 0.2 dB
 TUNER
 AUX 1, 2) 2 Hz — 150 kHz $^{+0}_{-1}$ dB
 TAPE 1, 2

Tone Controls: BASS
 $\pm$ 10 dB at 60 Hz
 TREBLE
 $\pm$ 10 dB at 25 kHz

Outputs:

	Voltage	Impedance
REC OUT 1, 2	150 mV (−14.5 dB) (13.5 V at max.)	10 k Ω
PRE OUTPUT	1.3 V (4.5 dB) (10 V at max.)	2.5 k Ω (max.)

0 dB = 0.775 V

MODEL IDENTIFICATION

Specification Label

UK model

SONY ASCO	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-F6B AC 110-120/220-240V $\sim$ 50/60Hz 550W SERIAL NO. MADE IN JAPAN
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Canadian model

SONY ASCO	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-F6B AC 120V 60Hz 490VA SERIAL NO. MADE IN JAPAN
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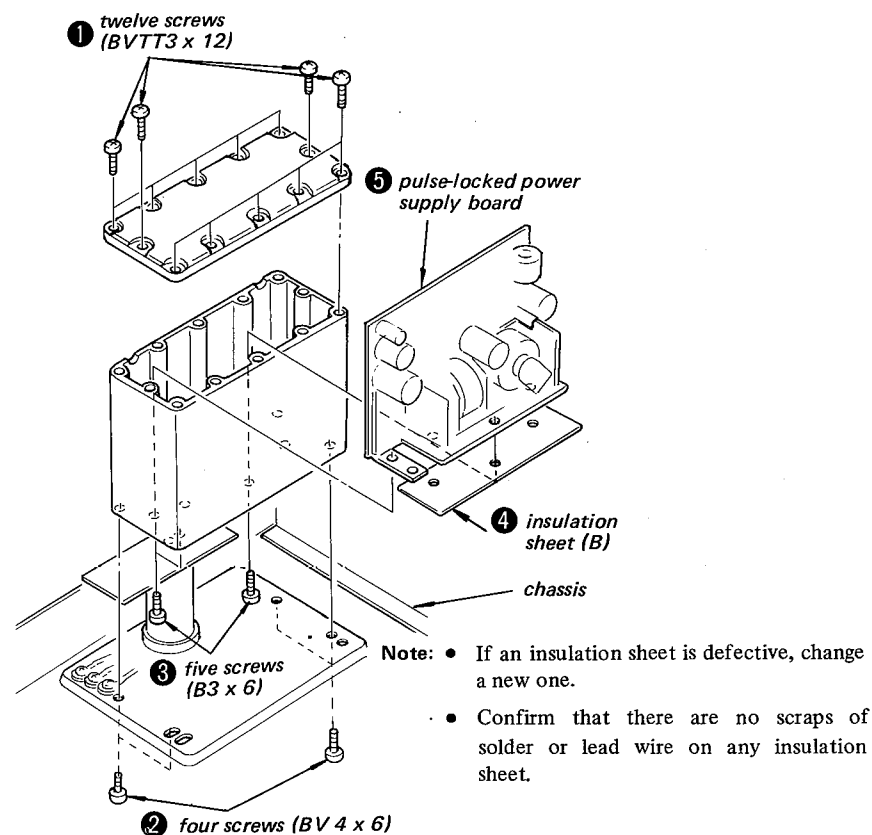
AEP, E model

SONY ASCO	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-F6B AC 110-120/220-240V $\sim$ 50/60Hz 450W SERIAL NO. MADE IN JAPAN
---------------------	---

US model

SONY ASCO	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-F6B AC 120V 60Hz 190W SERIAL NO. MADE IN JAPAN
---------------------	---

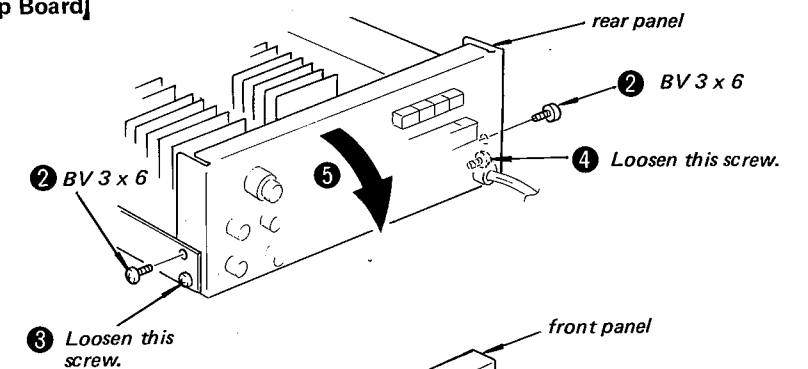
PULSE-LOCKED POWER SUPPLY BOARD REMOVAL



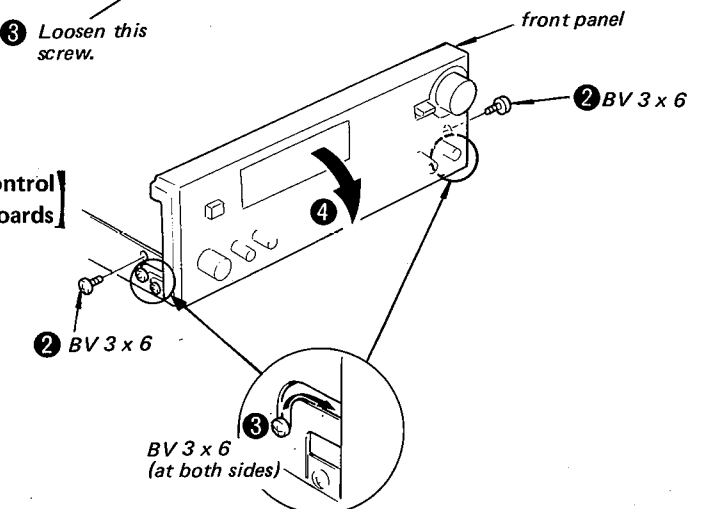
CIRCUIT BOARDS CHECKING AND REPAIRING

1 Remove the case (See page 6).

[Head Amp Board]

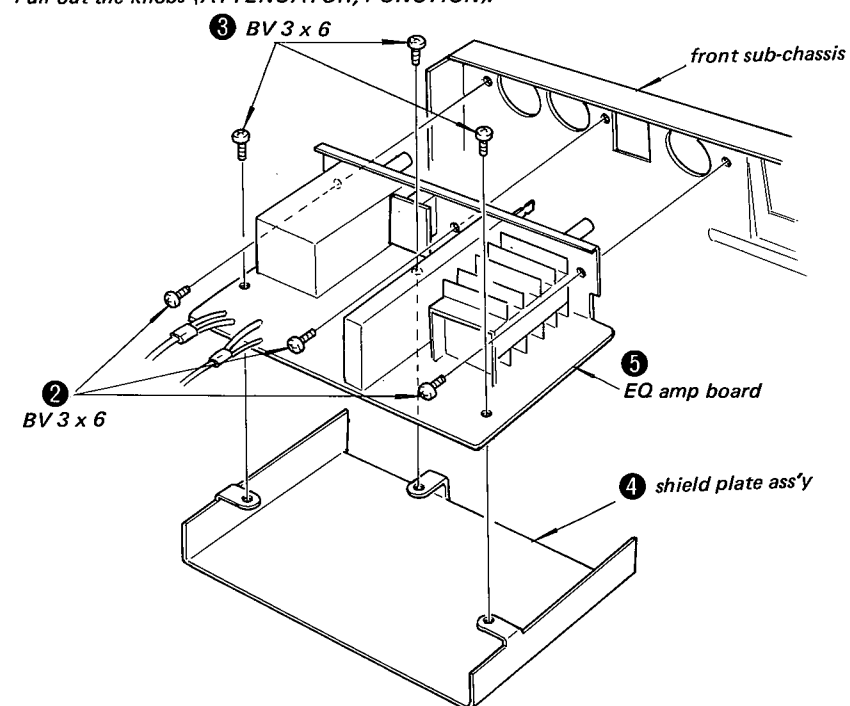


[EQ Amp, Control and Meter Boards]



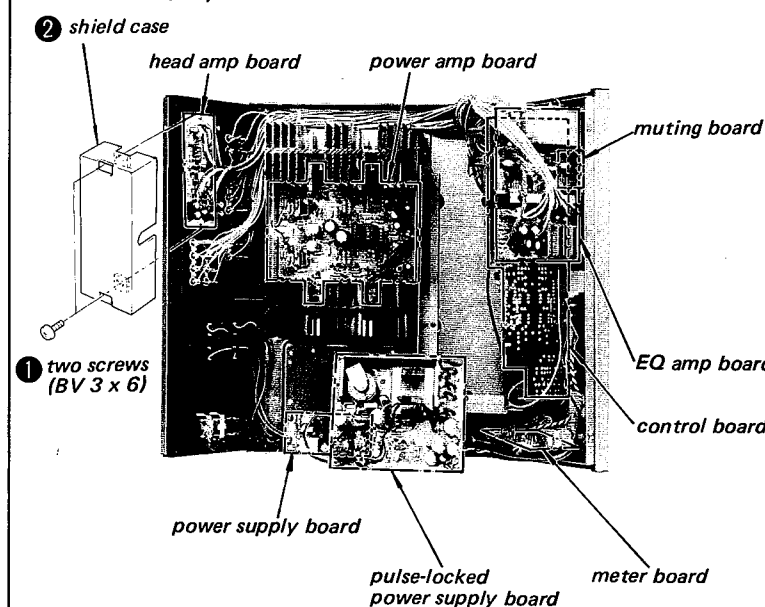
EQ AMP BOARD REMOVAL

1 Pull out the knobs (ATTENUATOR, FUNCTION).

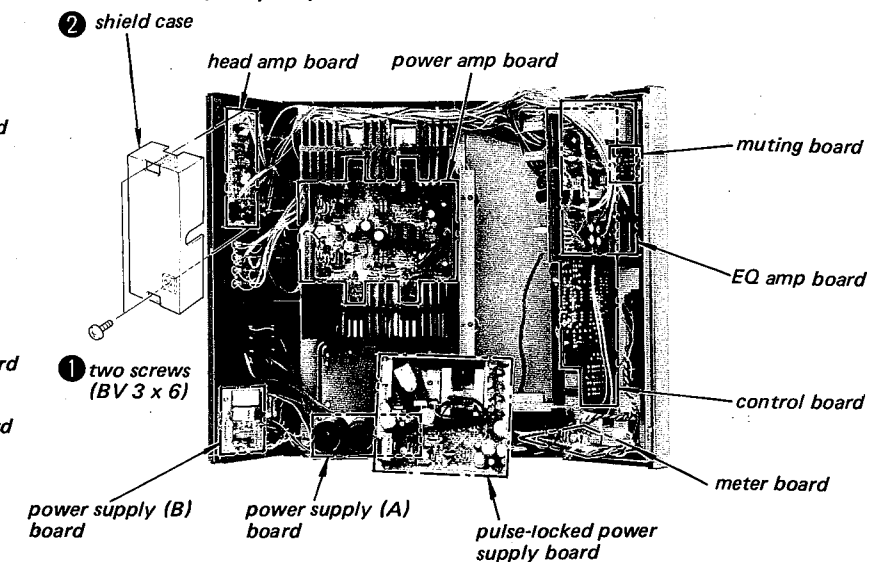


Each circuit board is located as shown below.

(US, Canadian model)



(AEP, UK, E model)



SECTION 3 ADJUSTMENTS

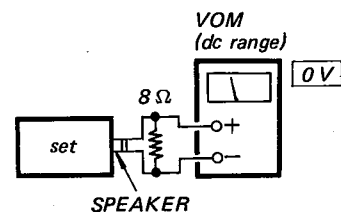
Note: 1. DC BIAS and DC BALANCE adjustments should be performed about several minutes later after the POWER switch (S10) is turned on.

2. Repeat DC BIAS and DC BALANCE adjustments two or three times.

3. After replacing the power transistors, DC BIAS and DC BALANCE adjustments should be performed.

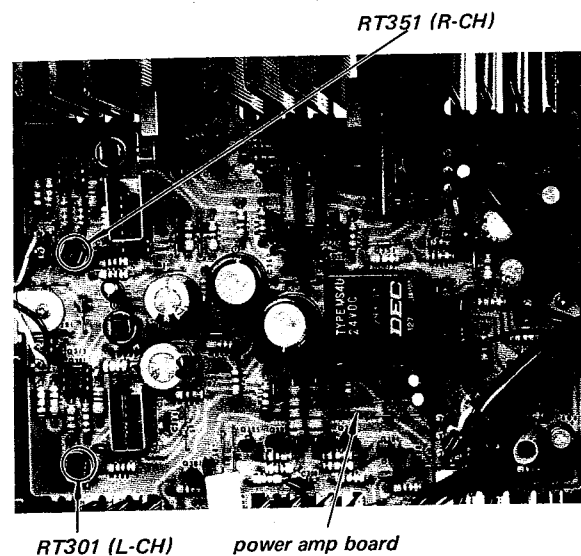
DC Balance Adjustment

Procedure:



Adjust RT301 (L-CH) and RT351 (R-CH) for 0 V reading on the VOM.

Adjustment Location:



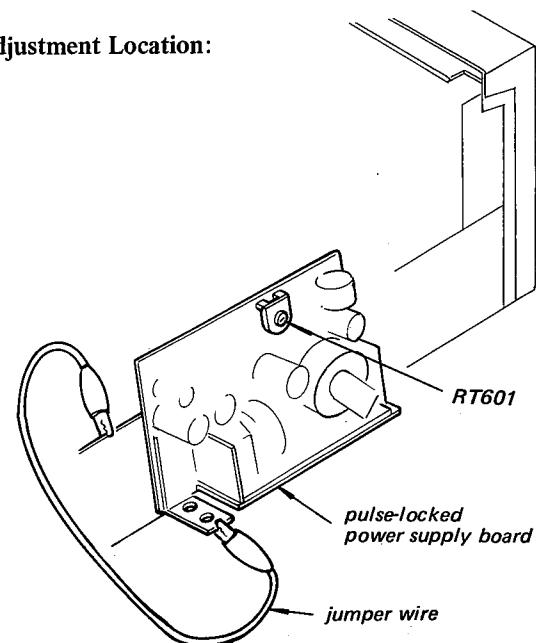
DC Voltage Adjustment

Procedure:

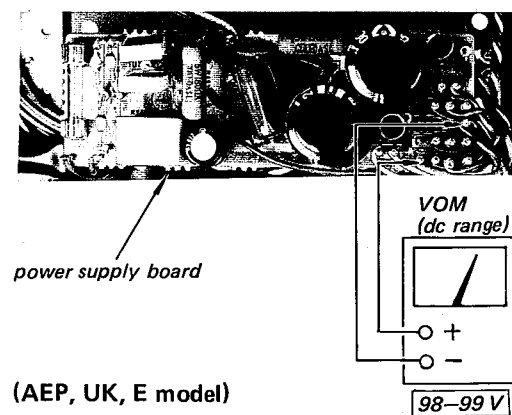
1. Connect a jumper wire.

2. Adjust RT601 for 98–99 V reading on the VOM.

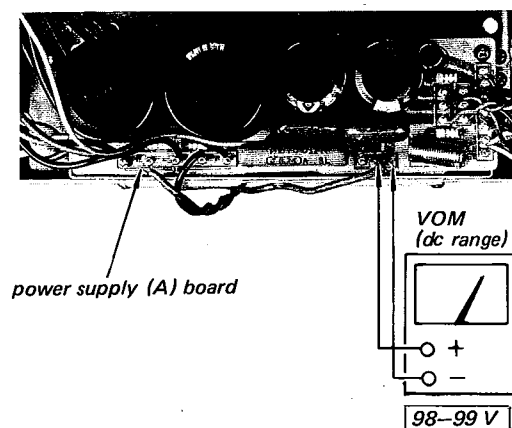
Adjustment Location:



(US, Canadian model)



(AEP, UK, E model)

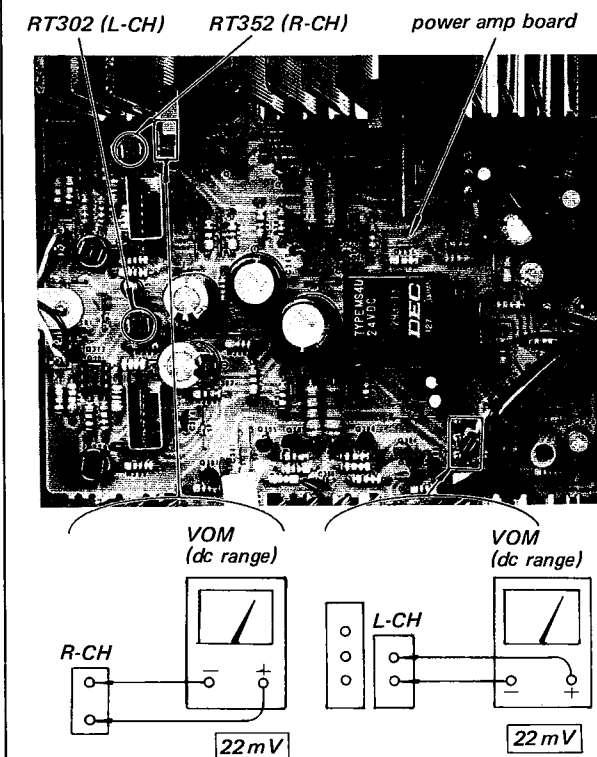


DC Bias Adjustment

Procedure:

Adjust RT302 (L-CH) and RT352 (R-CH) for 22 mV reading with no signal input.

Adjustment Location:

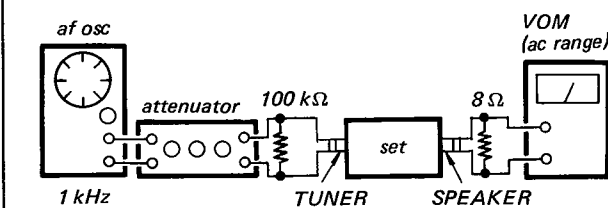


Meter Level Adjustment

Setting:

FUNCTION switch: TUNER

Procedure:

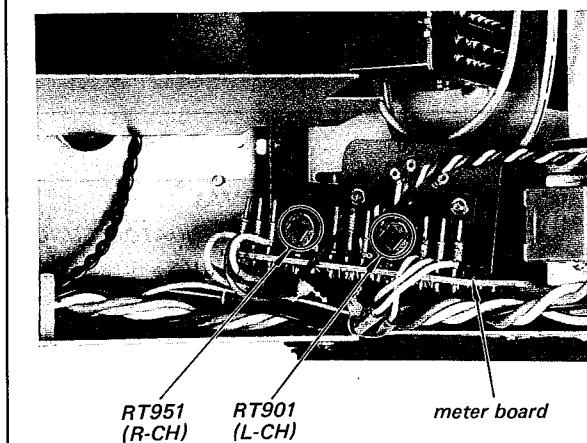


1. Turn the VOLUME control fully clockwise.

2. Adjust the TUNER input level for 2.83 V (1 W) reading on the VOM.

3. Adjust RT901 (L-CH) and RT951 (R-CH) so that the power meters indicate 1 W.

Adjustment Location:



SERVICING NOTES

1. REPLACEMENT OF THE TRANSFORMERS IN THE PULSE-LOCKED POWER-SUPPLY CIRCUIT

The lead wire arrangement for each of T601-603 in the inverter circuit are shown in Figs. 1 and 2.

As the repair parts, T603 is formed by an iron core and a coil winding, but T601 and T602 are only iron core. Thus, if the coils are defective, arrange a new transformers as shown in Fig. 1. Note that the lead lengths must be exact. Also wind the coil carefully.

The lead wires (5) to (8) are as follows:

- lead wire diameter: (7) and (8) are of equal diameter
(5) and (6) are of equal diameter
- lead wire length: (5) longer than (6)
(7) longer than (8)

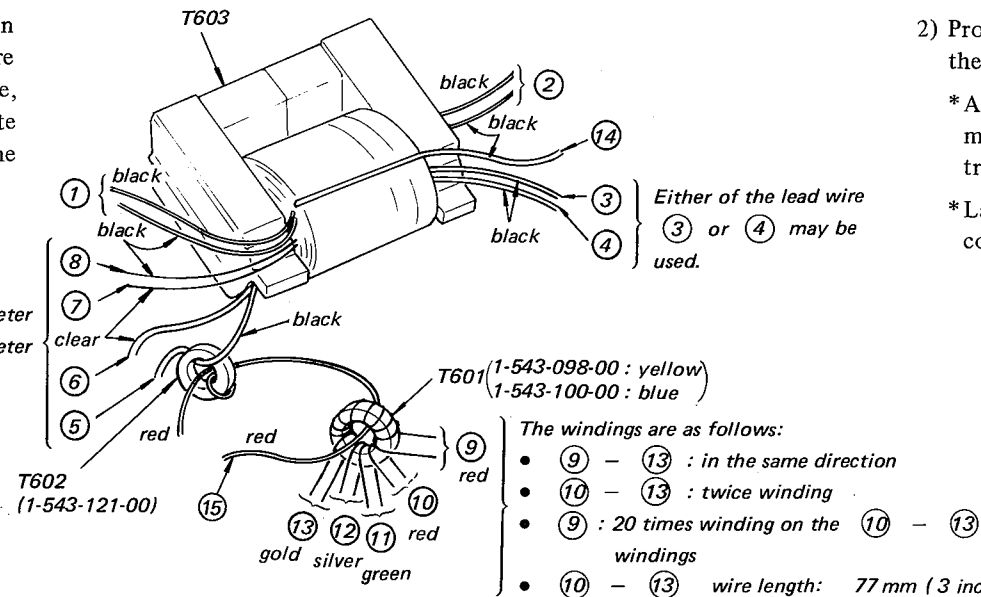


Fig. 1

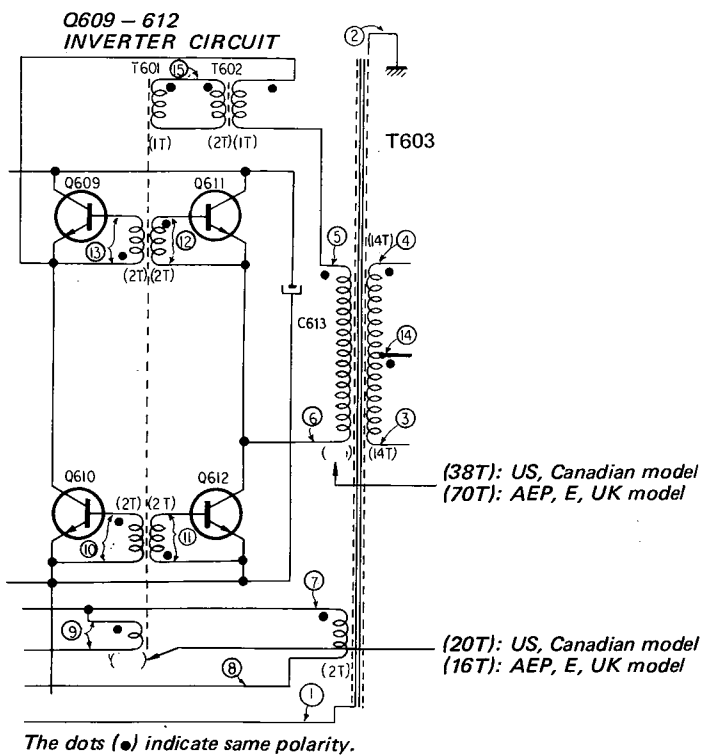
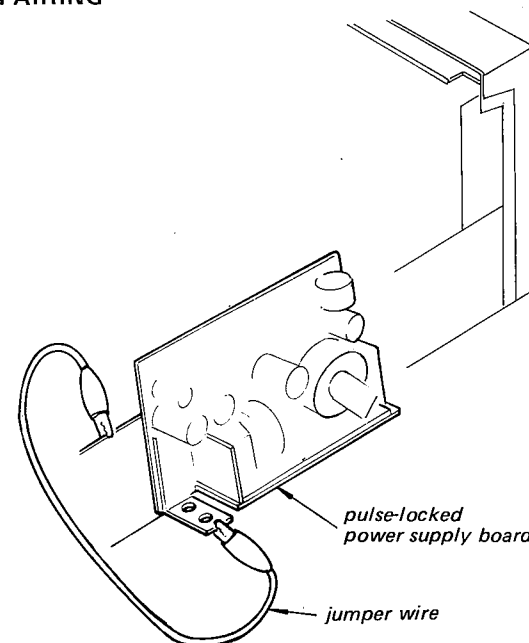


Fig. 2

2. PULSE-LOCKED POWER SUPPLY BOARD REPAIRING

This set has a pulse-locked power-supply circuit which is quite different from a conventional power-supply circuit. The pulse-locked power-supply directly rectifies and smooths the ac input power to produce the higher dc voltages required in the power supply circuit. When servicing this set, note the following.

- 1) To prevent unwanted radiation due to pulse signals in the pulse-locked power-supply circuit, the pulse-locked power-supply board is shielded by the aluminum diecast box.
- 2) The negative circuit of the secondary rectifier in the pulse-locked power-supply circuit is grounded by screws in the aluminum diecast box. When checking the pulse-locked power-supply board out of the box, use a jumper wire as shown.



3. INVERTER CIRCUIT TRANSISTOR REPLACEMENT (Q609-612)

- 1) Be sure that there are no bits of solder and wire ends on the places marked *2 in Fig. 3.
- 2) Proceed the following items surely when replacing the transistors (Q609-612).

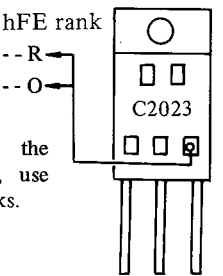
*Apply thermal compound coat to the positions marked *1 and *2 in Fig. 3 before mounting the transistors.

*Lay the F-shaped plate flat to ensure uniform contact with all 4 transistors (see Fig. 4).

AEP, UK, E model

Q609-612 8-729-302-31 2SC2023-R --- R
8-729-302-32 2SC2023-O --- O

Note: When replacing Q609-Q612 in the pulse-locked power-supply circuit, use those which have the same hFE ranks.



US, Canadian model

Q609-612 8-729-308-72 2SC1968D-O --- O

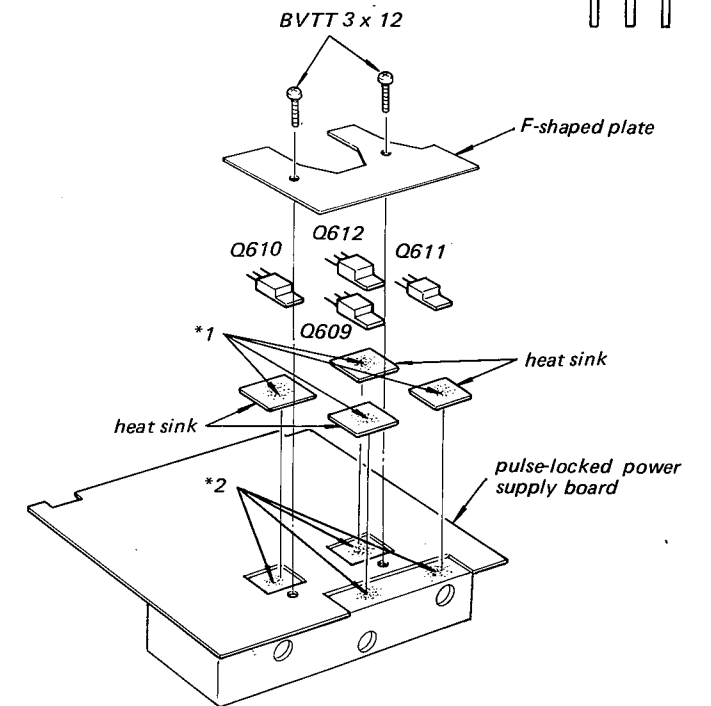
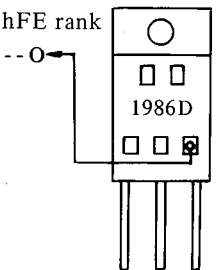


Fig. 3

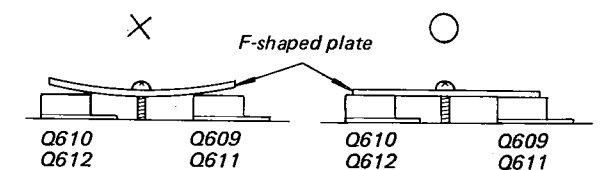
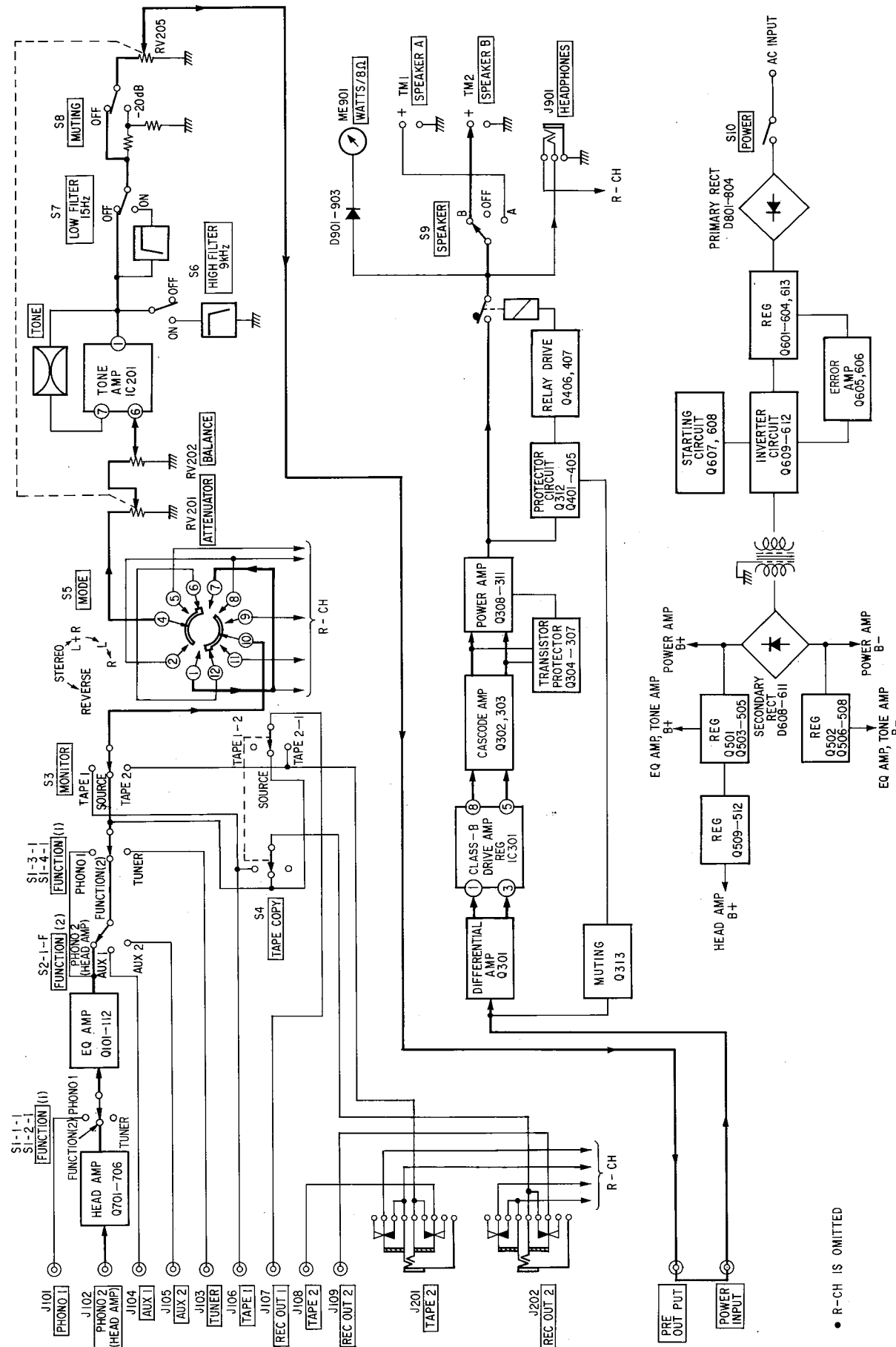


Fig. 4

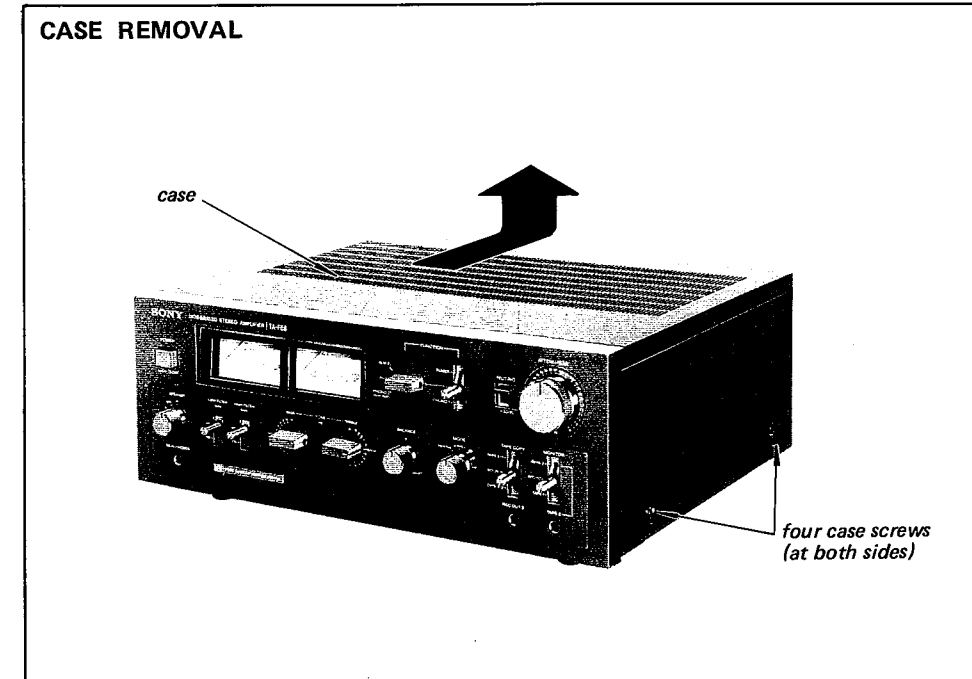
SECTION 1 BLOCK DIAGRAM



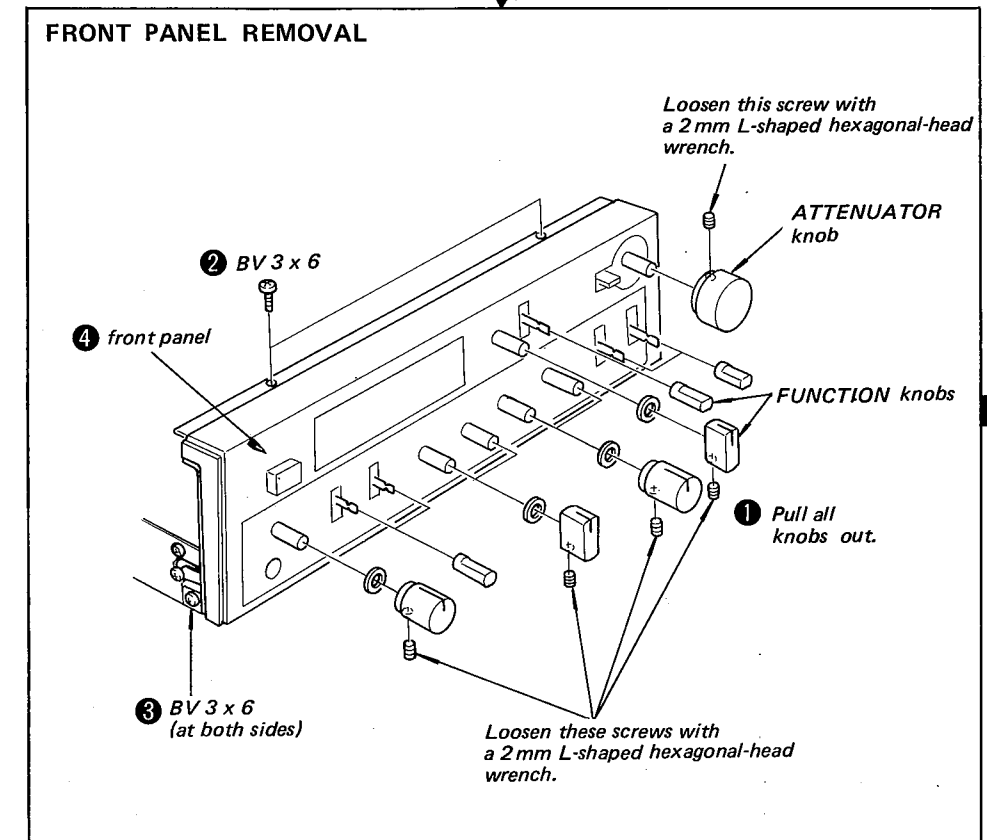
SECTION 2 DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

CASE REMOVAL



FRONT PANEL REMOVAL

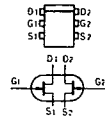


SECTION 4 DIAGRAMS

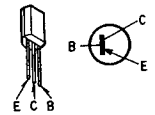
• Replacement Semiconductors

For replacement, use semiconductors except in ().

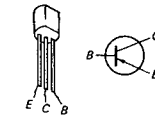
Q101, 151: 2SK97



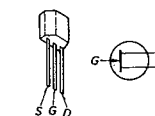
Q102, 103, 106, 108
Q152, 153, 156, 158
Q705, 706, 755, 756 } : 2SA872E (2SA872)



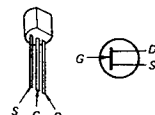
Q111, 161: 2SB647
Q506, 507: 2SA639 (2SA893)



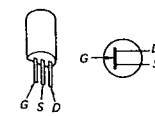
Q104, 154: 2SK23A-840 (blue) (2SK23A)



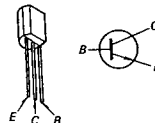
Q105, 155, 509: 2SK30A



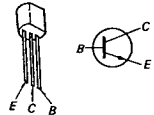
Q107, 112, 157, 162 } : 2SK43-4 (2SK43)



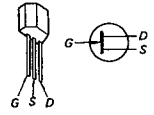
Q109, 159: 2SC1775 E (2SC1775)



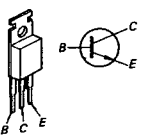
Q110, 160: 2SD667
Q510: 2SC1475 (2SC1670)



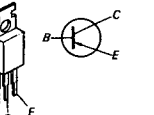
Q501, 502: 2SK42-4 (2SK42)



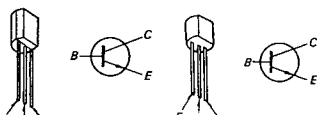
Q503: 2SC1061



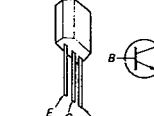
Q508: 2SA671



Q504, 505, 511, 512 } : 2SC1775F (2SC1890)



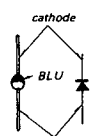
Q701-704, 751-754 } : 2SC1637-1 (2SC1637)



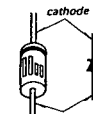
IC201, 251: HA1457



D101, 151: MV12N

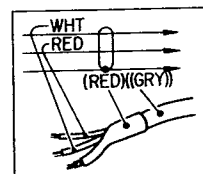


D102, 103, 152, 153 } : EQB01-26 (EQA01-26R)
D201, 202, 251, 252 } : EQB01-21 (EQA01-21R)



Note:

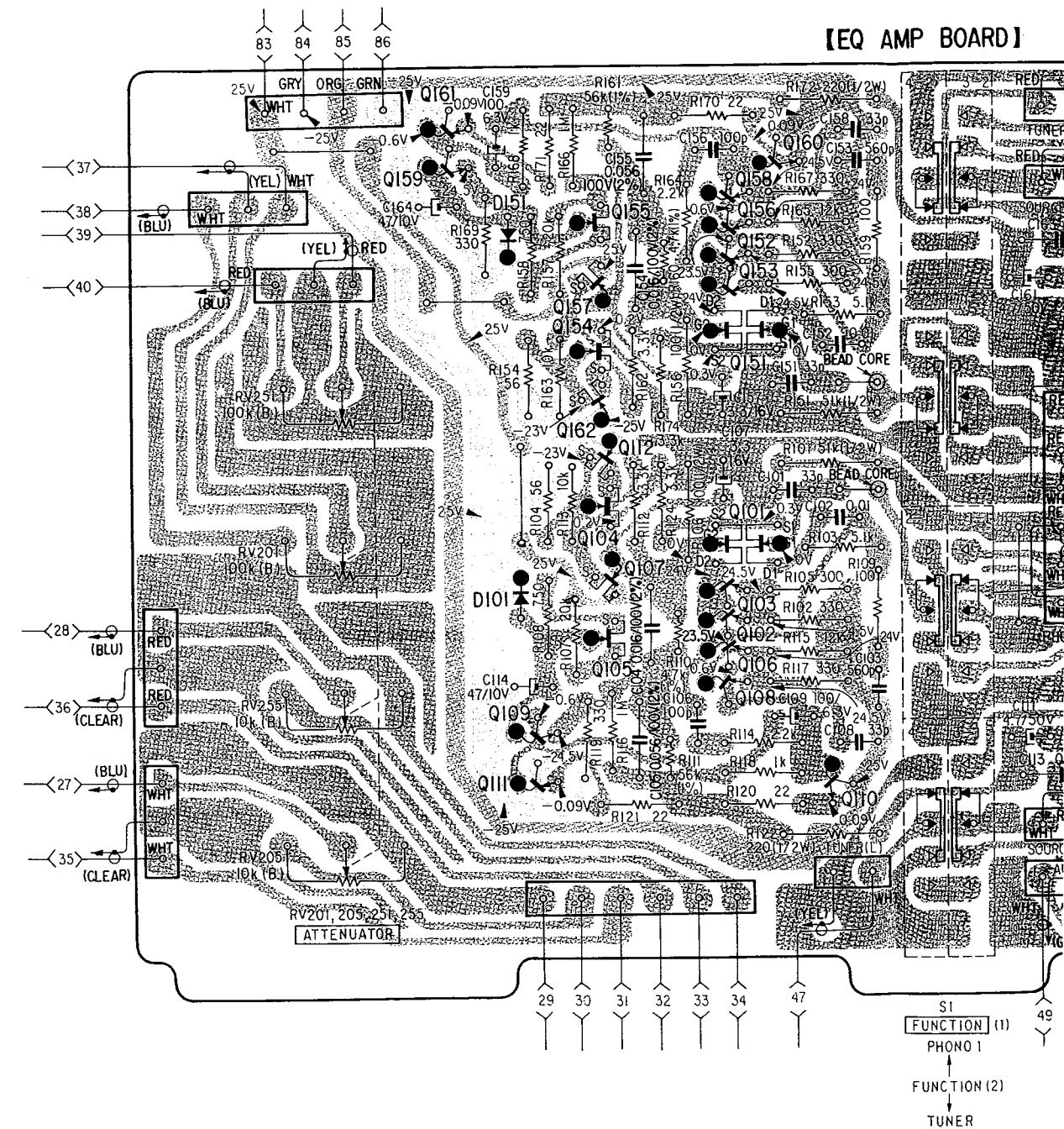
- Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.
- : B+ pattern
- : B- pattern

4-1. EQ AMP BOARD MOUNTING DIAGRAM — Conductor Side —

D	Q
153 152 102	161
	159 160
	158
151	155 156
	152
	157 153
	154 151
103	162
	112
	104
	101
101	107
	103
	102
	105
	106
	108
	109
	111 110

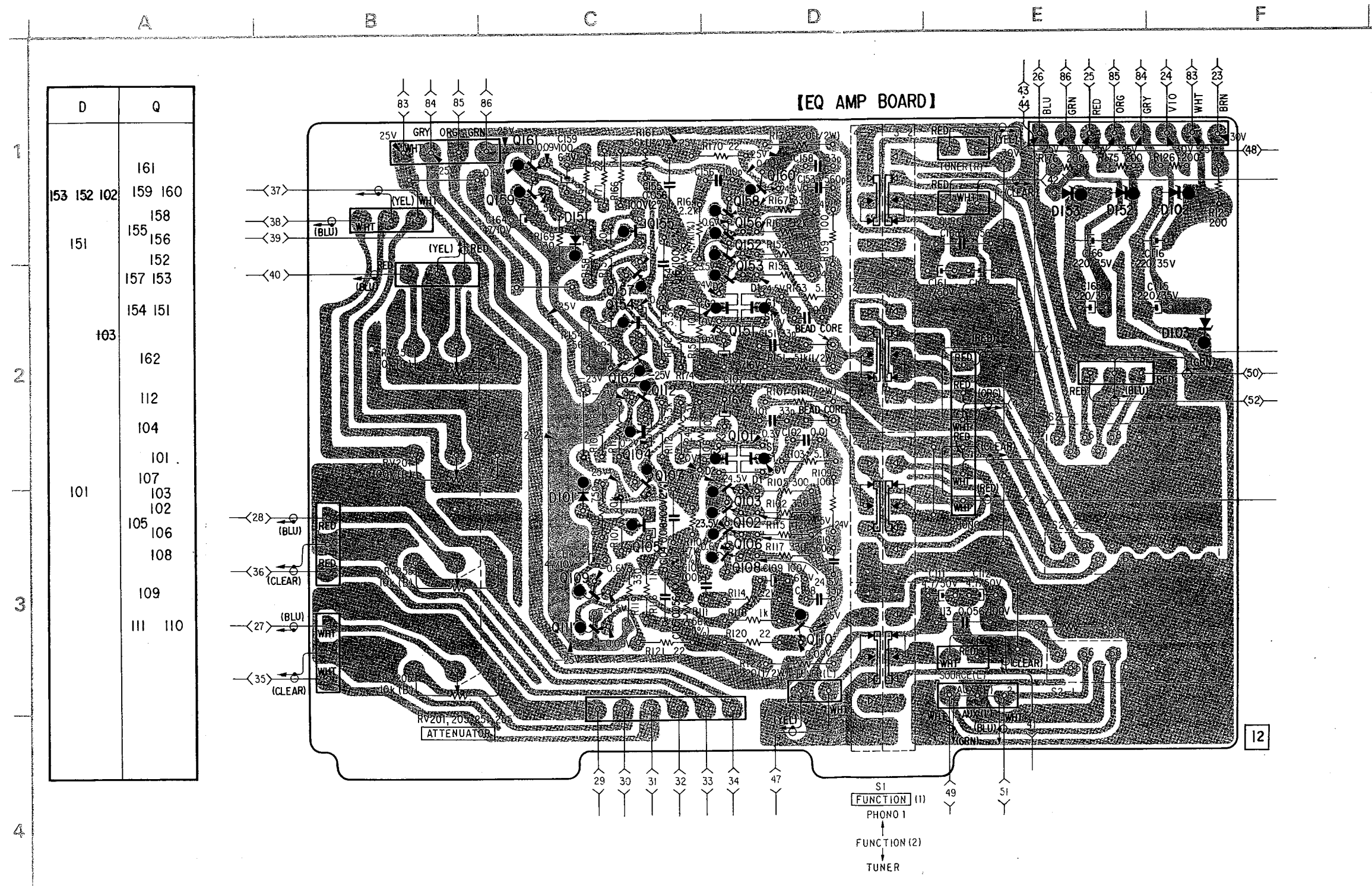


4-1. EQ AMP BOARD MOUNTING DIAGRAM
— Conductor Side —

26R)
21R)

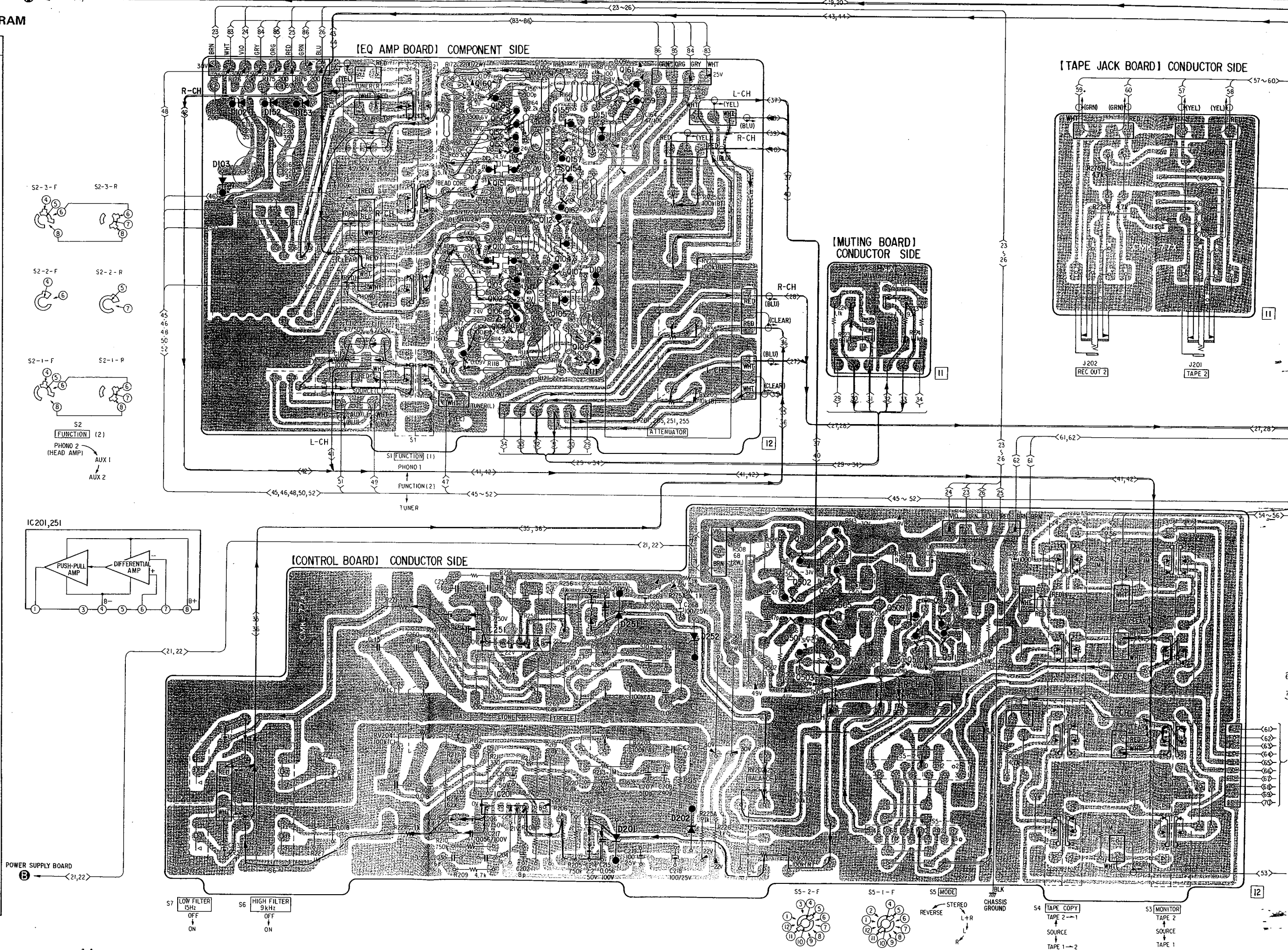
the jacket.

onent side.

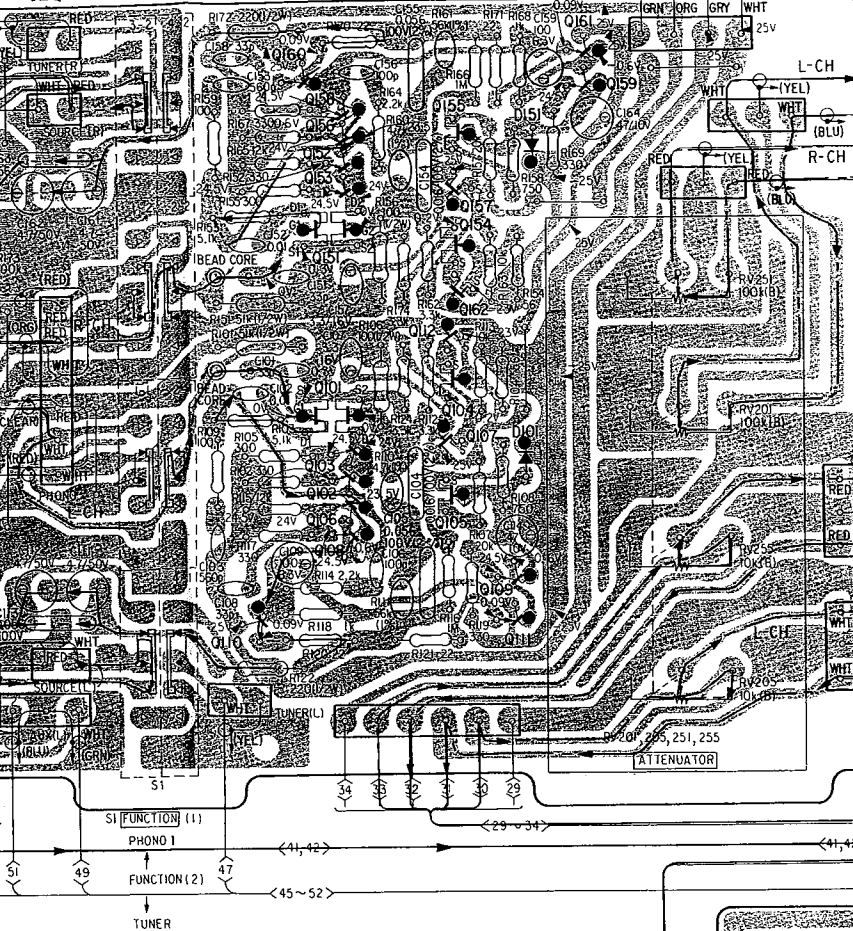


4-2. PREAMP SECTION MOUNTING DIAGRAM

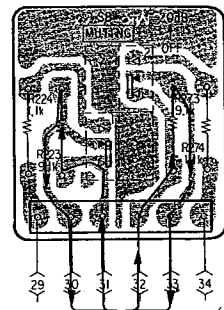
Q, IC	D
161	
160	102
158	153
156	151
152	
153	157
151	
154	103
162	
112	
104	
101	
103	101
107	
102	105
106	
108	
109	
110	111
507	
508	
506	
502	
505	251
509	
501	252
512	
IC251	
510, 511	
503	504
IC201	
202	
201	
Q, IC	D



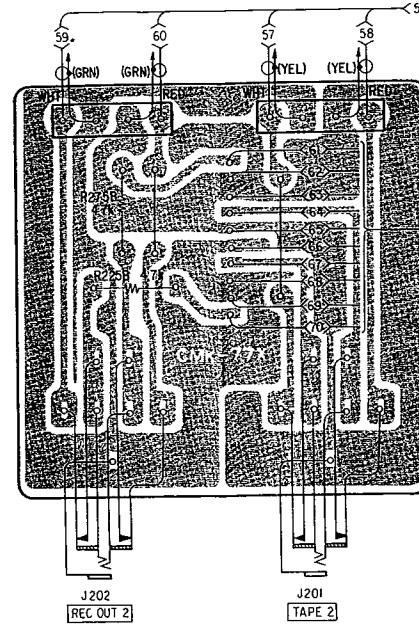
[EQ AMP BOARD] COMPONENT SIDE



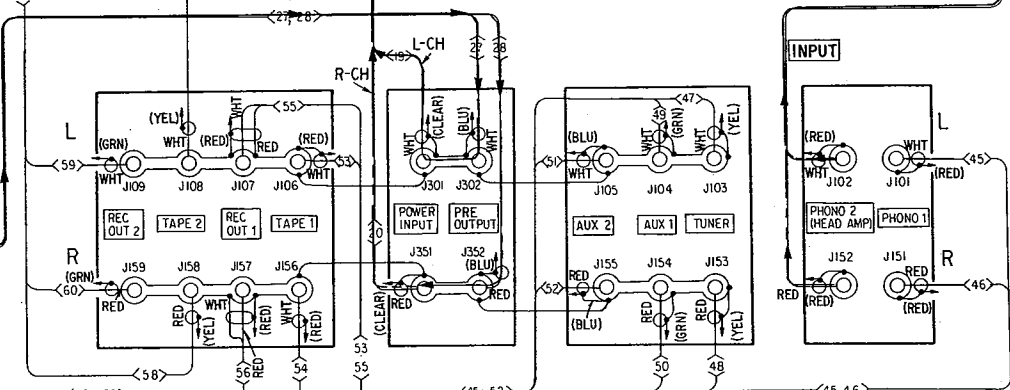
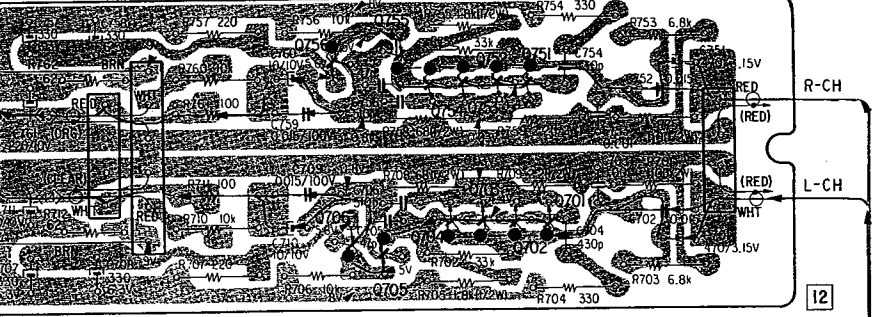
[MUTING BOARD] CONDUCTOR SIDE



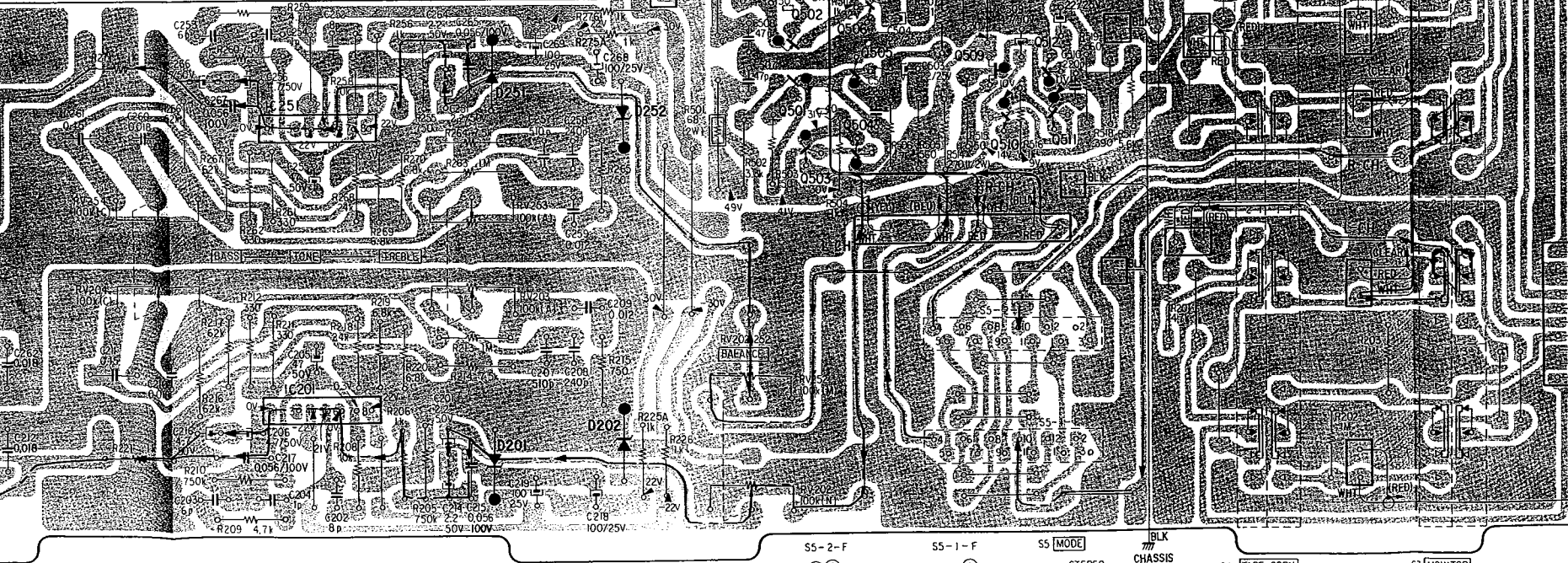
[TAPE JACK BOARD] CONDUCTOR SIDE



[HEAD AMP BOARD] CONDUCTOR SIDE

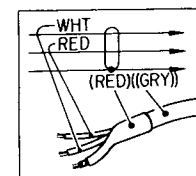


[L BOARD] CONDUCTOR SIDE

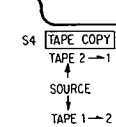
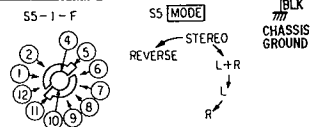
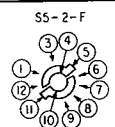


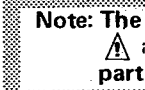
Note:

- Color code of sleeving over the end of the jacket.



- : parts extracted from the component side.
- : B+ pattern
- : B- pattern
- Signal Path
 - L-CH
 - R-CH
 - common





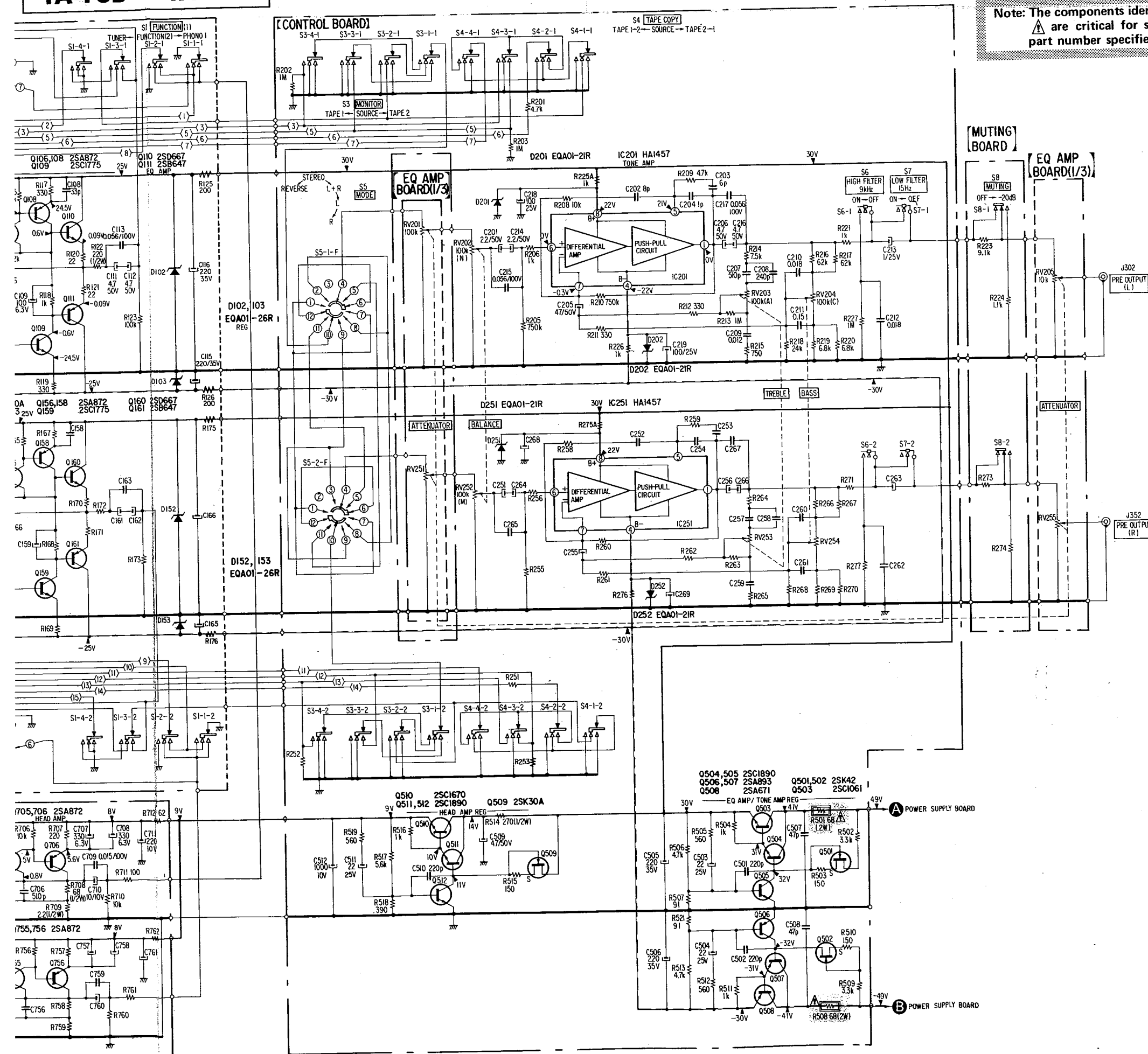
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- Components for right channel have same values as for left channel. Reference numbers are coded from 151, 251 or 751.
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor
- 1 % or 2 % indicates component tolerance.
-  : panel designation
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Switch

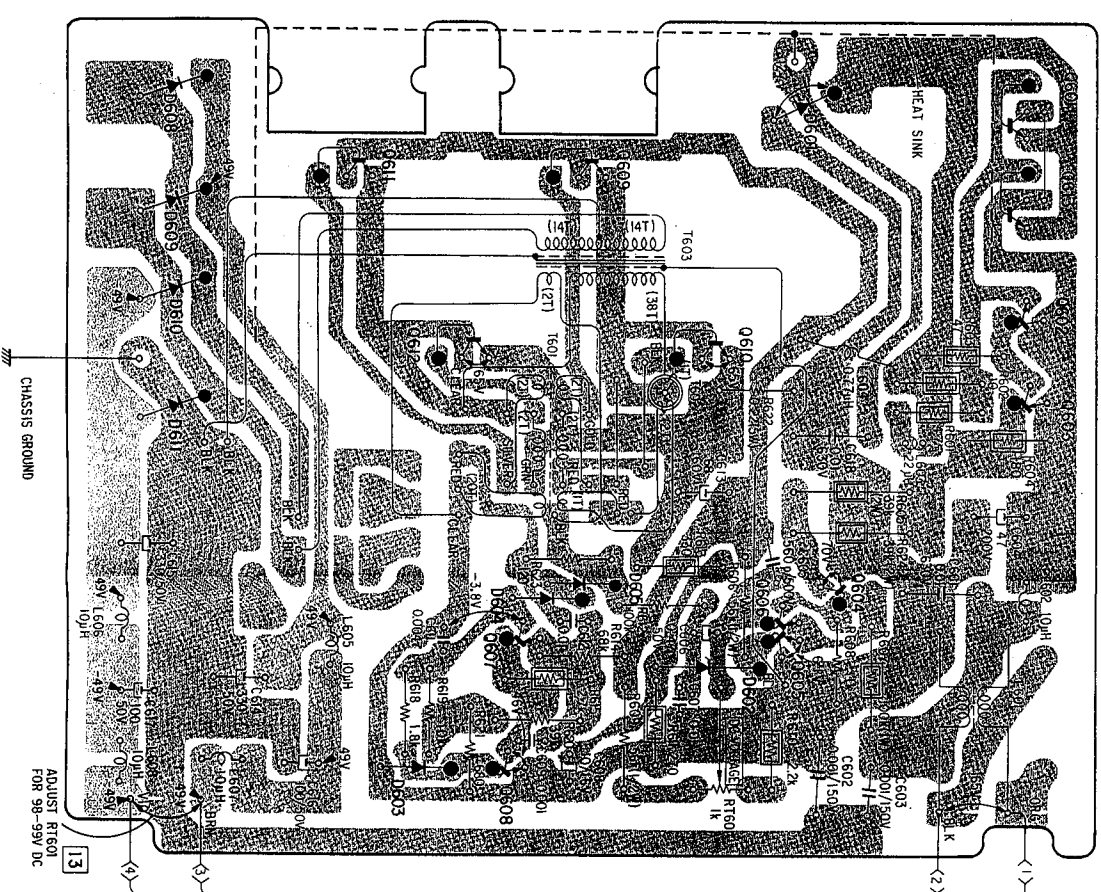
Ref. No.	Switch	Position
S1-1-1, 2 S1-2-1, 2 S1-3-1, 2 S1-4-1, 2	FUNCTION (1)	FUNCTION (2)
S2-1-F, R S2-2-F, R S2-3-F, R	FUNCTION (2)	PHONO 2 (HEAD AMP)
S3-1-1, 2 S3-2-1, 2 S3-3-1, 2 S3-4-1, 2	MONITOR	SOURCE
S4-1-1, 2 S4-2-1, 2 S4-3-1, 2 S4-4-1, 2	TAPE COPY	SOURCE
S5-1-F, 2-F	MODE	STEREO
S6-1, 2	HIGH FILTER 9kHz	OFF
S7-1, 2	LOW FILTER 15Hz	OFF
S8-1, 2	MUTING	OFF



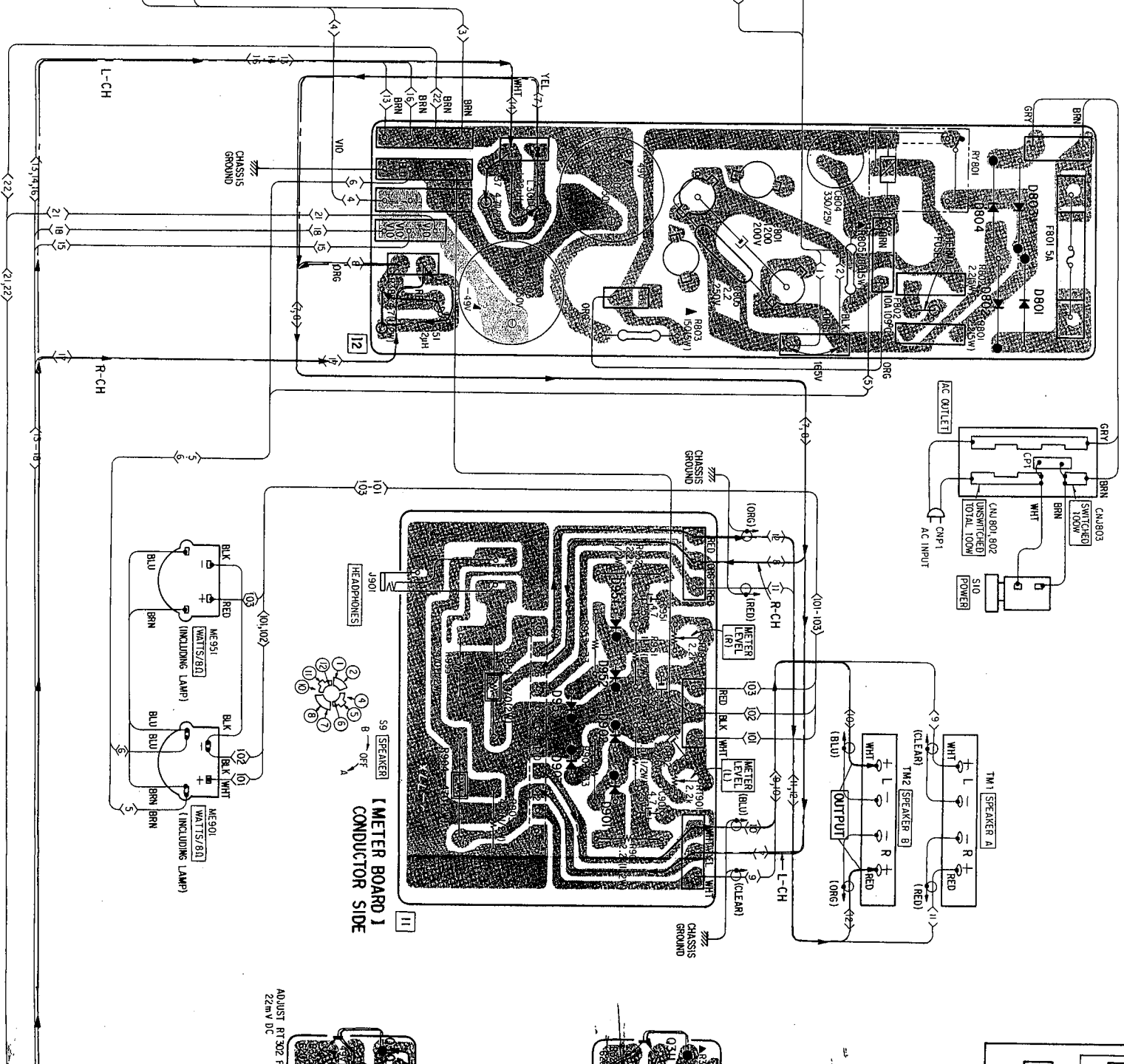
4.4. POWER AMP SECTION MOUNTING DIAGRAM (US, Canadian model)

[illegible]

**【PULSE-LOCKED POWER SUPPLY BOARD】
CONDUCTOR SIDE**

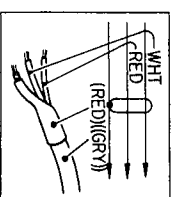


【 POWER SUPPLY BOARD 】 COMPONENT SIDE

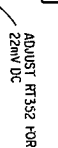
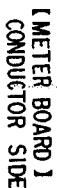


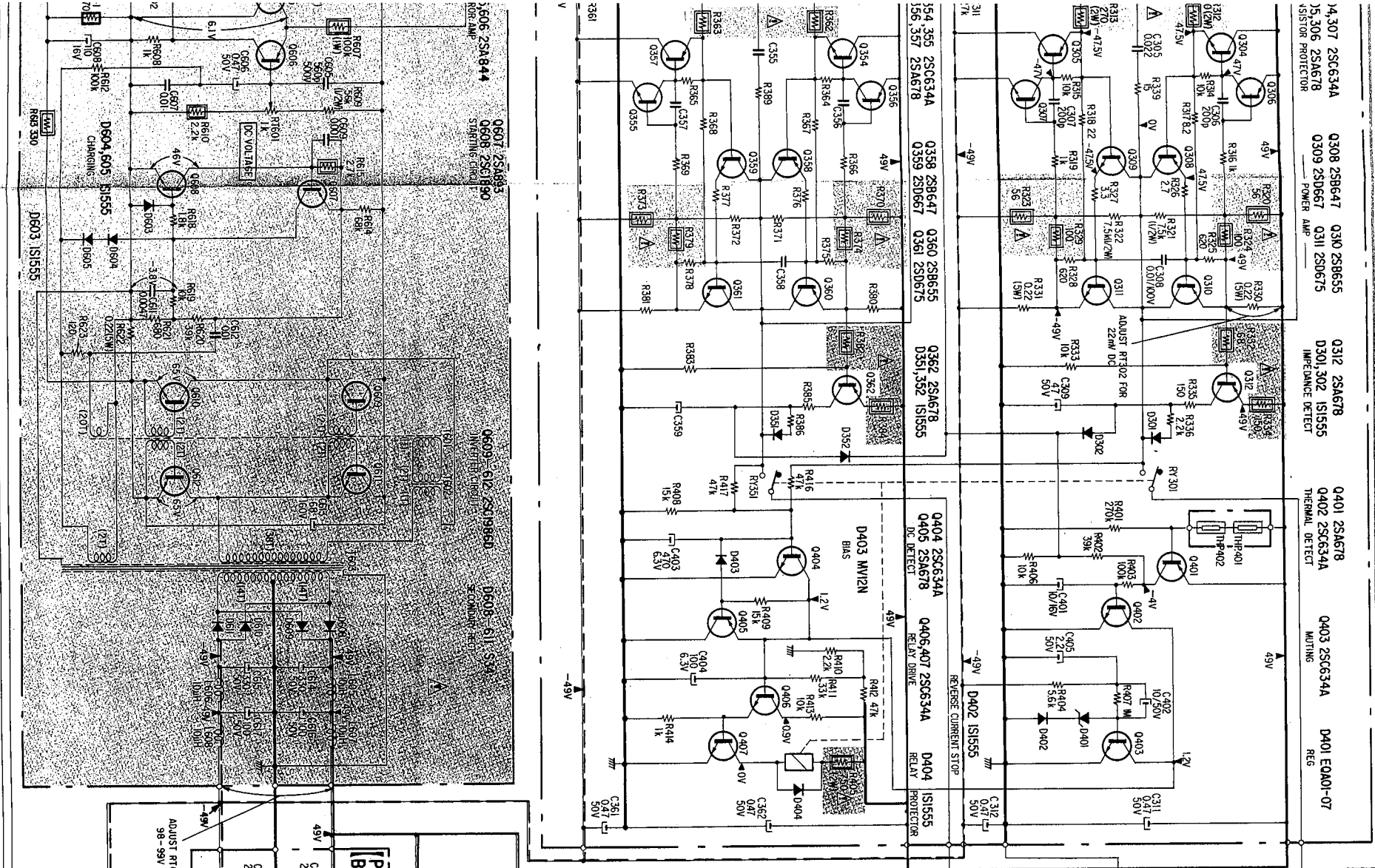
Note:

- **Color code of sleeving over the end of the jacket.**



- ○ — : parts extracted from the component side.
-  : B+ pattern
-  : B- pattern
- Signal Path
 - → L-CH
 - → R-CH
 - common
- ▲ : nonflammable resistor.





Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

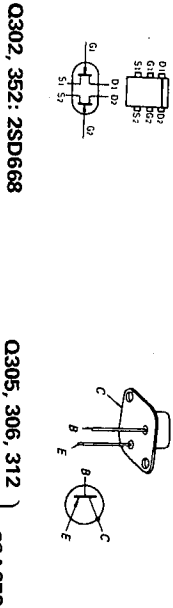
Note:

- Components for right channel have same values as for left channel. Reference numbers are coded from 351 or 951.
- All capacitors are in μ F unless otherwise noted. pF = μ F/1000.
- All resistors are in ohms, $\frac{1}{2}$ W unless otherwise noted. k Ω = 1000 Ω , M Ω = 1000 k Ω .
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- $\square$: nonflammable resistor.
- $\square$: panel designation
- $\square$: B+ bus.
- $\square$: adjustment for repair.
- $\square$: B - bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no signal conditions with a VOM (20 k Ω /V).
- Voltage variations may be noted due to normal production tolerances.

• Switch

Ref. No.	Switch	Position
S9	SPEAKER POWER	B OFF

- Replacement Semiconductors
For replacement, use semiconductors except in ().
- 0301, 351: 2SK58
- 0310, 360: 2SB655



0305, 306, 312 } 2SA678
0356, 357, 362 }
0401, 405

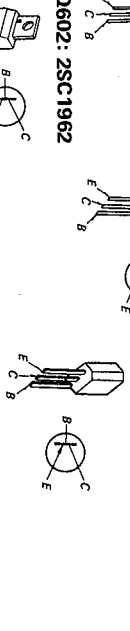


0303, 353: 2SB648

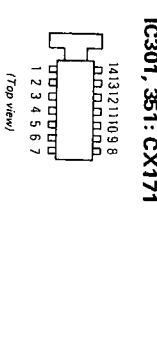


0304, 307 } 2SC1364 (2SC634A)
0313, 354 }
0355, 353 }
0402-404 }
0406, 407 }

0601, 613: 2SC1986D-R (2SC1986D)
0609-612: 2SC1986D-O



0603: 2SA896

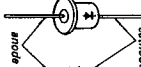


D301, 302, 351, 352 }
D402, 404, 603-605 } 1S1555
D903, 953 }
D602: RD5.6E (RD5.6E-B)
D901, 902: 1T22AM (1T22)
D951, 952

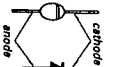
0608: 2SC1775F (2SC1890)

D304, 305: EOB01-21 (EOA01-21R)
D354, 355: EOB01-21 (EOA01-21R)
D401: EOB01-07 (EOA01-07)

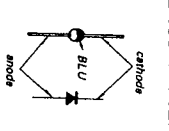
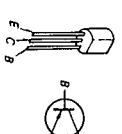
0309, 359: 2SD667



D801-804: U05G (U05E)

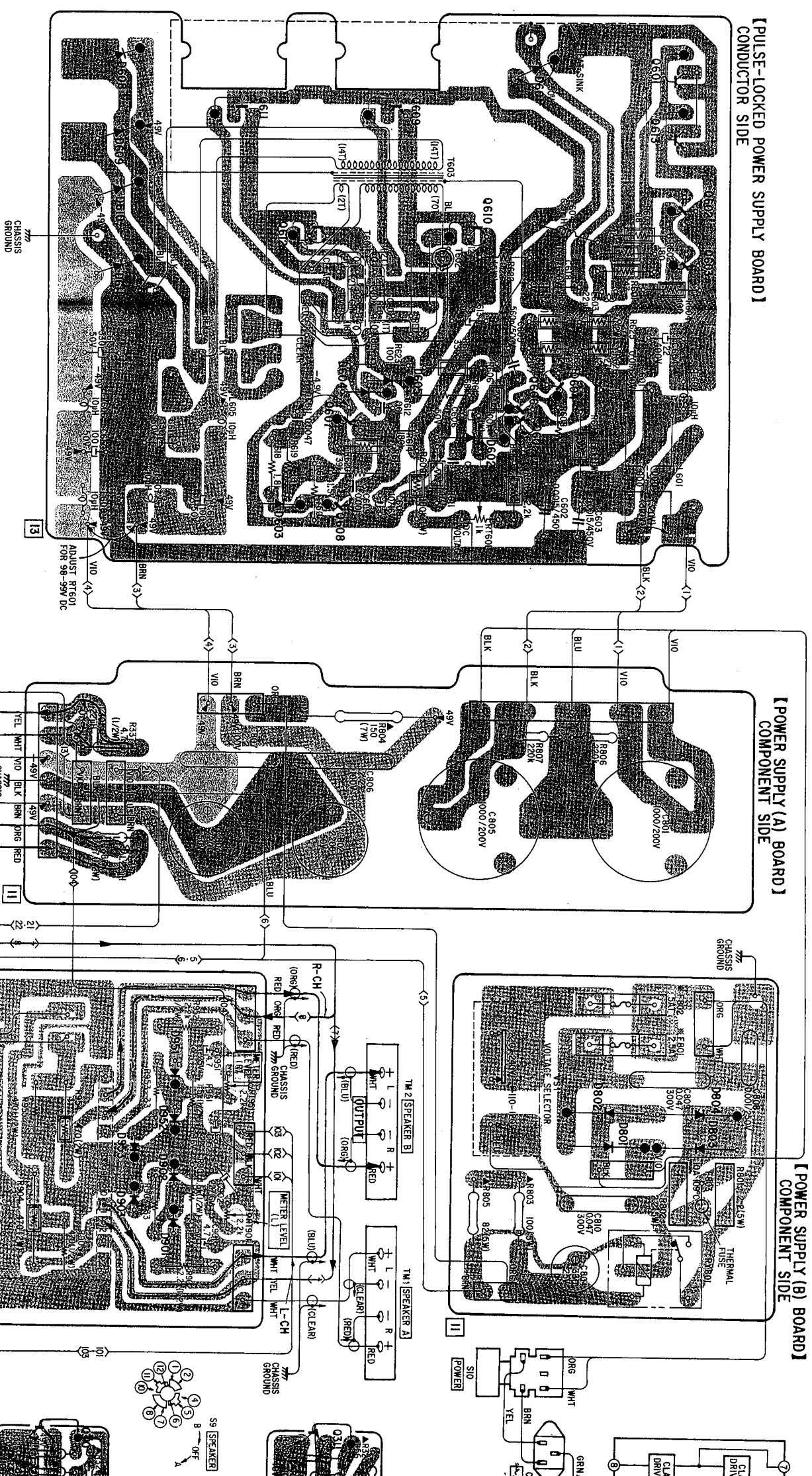


0308, 358: 2SB647
0607: 2SA639S (2SA893)



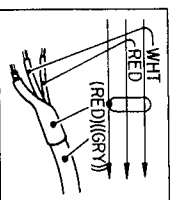
4-6. POWER AMP SECTION MOUNTING DIAGRAM (AEP, UK, E model)

	A	B	C	D
Q	601	613	602	603
1c	609	610	604	606 605
	611	612	607	608
D	601	609	610	611
	608	605	604	602
				603
				804 803
				802 801
				951 952
				953 902 901
				310



Note:

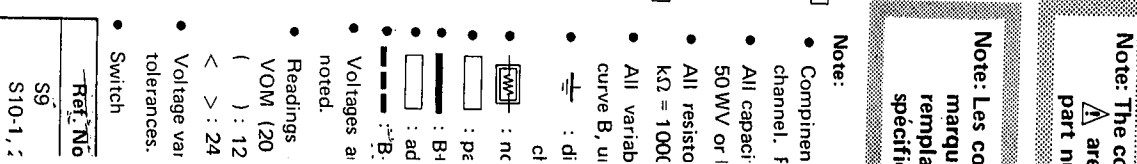
- Color code of sleeving over the end of the jacket.

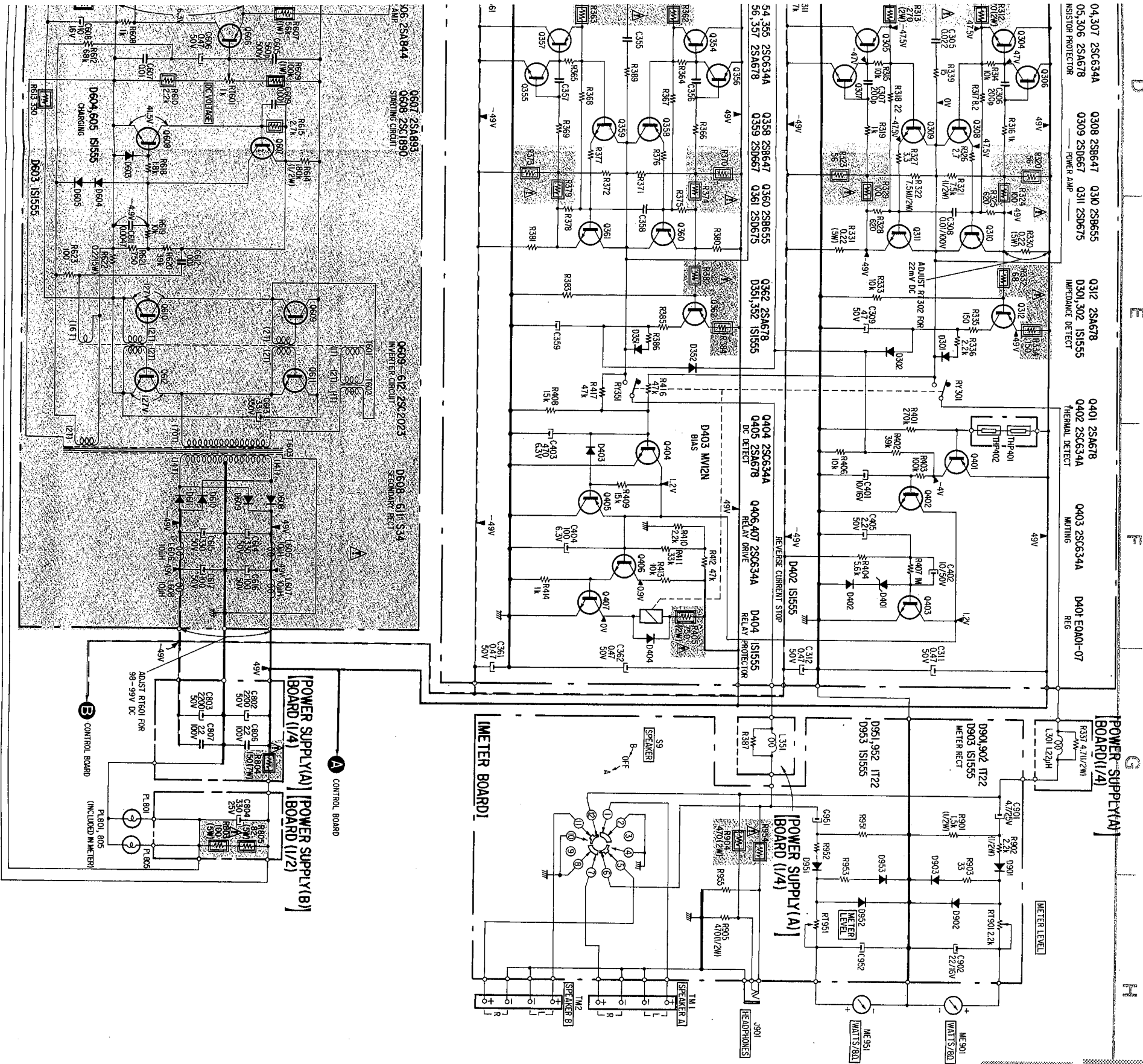


- ○ — : parts extracted from the component side.
-  : B+ pattern
-  : B-- pattern
- Signal Path
 - L-CH
 - - - R-CH
 - common
- ▲ : nonflammable resistor.



TA-F6B TA-F6B





Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- Components for right channel have same values as for left channel. Reference numbers are coded from 351 or 951.
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{K}\Omega = 1000\ \Omega$, $\text{M}\Omega = 1000\ \text{K}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

$\equiv$: direct connection to points marked $\equiv$ on the chassis.

- $\square$: nonflammable resistor.
- $\square$: panel designation
- $\square$: B+ bus.
- $\square$: adjustment for repair.
- $\square$: B— bus.

• Voltages are dc with respect to ground unless otherwise noted.

• Readings are taken under no signal conditions with a VOM (20 $\text{K}\Omega/\text{V}$).

() : 120 V AC input
< > : 240 V AC input

• Voltage variations may be noted due to normal production tolerances.

• Switch

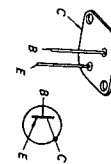
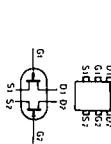
Ref. No.	Switch	Position
S9	SPEAKER POWER SELECTOR	B OFF 220-240 V

• Replacement Semiconductors

For replacement, use semiconductors except in ().

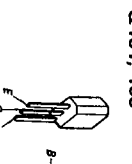
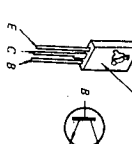
Q301, 351: 2SK58

Q310, 360: 2SB655



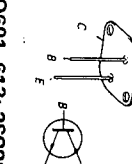
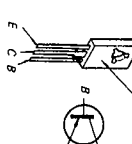
Q302, 352: 2SD668

Q305, 306, 312, Q356, 357, 362 } : 2SA678 Q401, 405



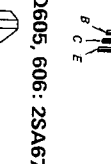
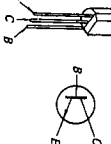
Q303, 353: 2SB648

Q311, 361: 2SD675



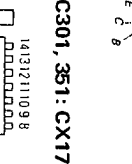
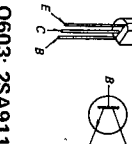
Q304, 307, Q313, 354, Q355, 363 } : 2SC1364 (2SC634A) Q402-404, Q406, 407

Q601, 613: 2SC2023-R } (2SC2023) Q609-612: 2SC2023-O



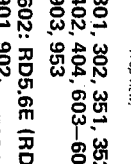
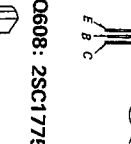
Q602, 604: 2SC1775F (2SC1810)

Q605, 606: 2SA678 (2SA844)



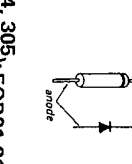
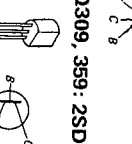
Q603, 2SA911

IC301, 351: CX171



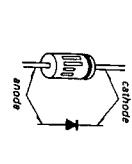
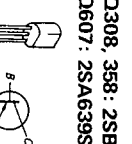
Q608: 2SC1775F (2SC1890)

D301, 302, 351, 352 } : 1S1555 D402, 404, 603-605 } : 1S1555 D903, 953



Q309, 359: 2SD667

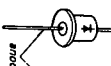
D304, 305: EOB01-21 (EOA01-21R) D354, 355: EOB01-21 (EOA01-21R) D401: EOB01-07 (EOA01-07)



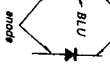
D801-804: U05G (U05E)



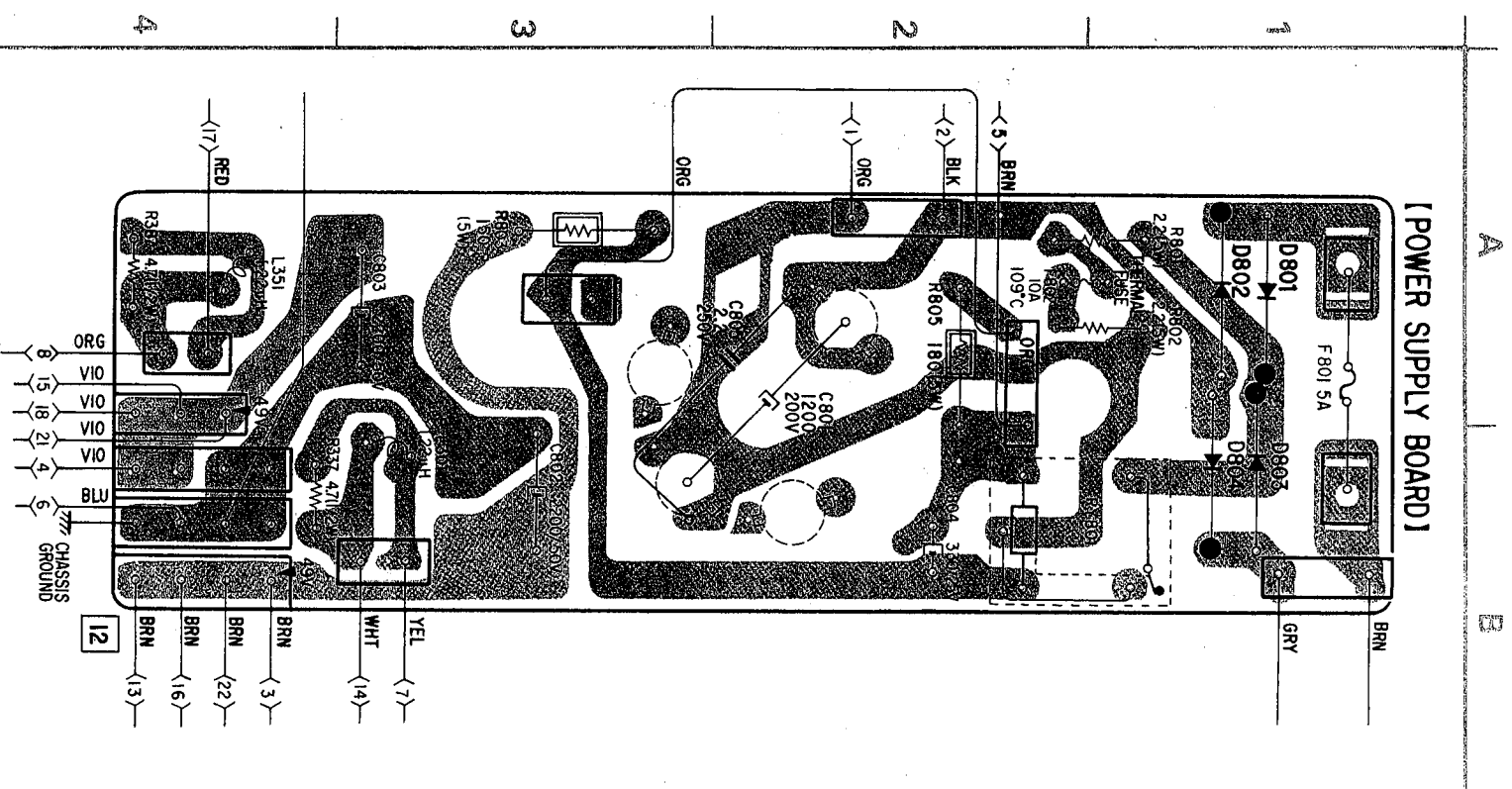
D601, 608-611: S34



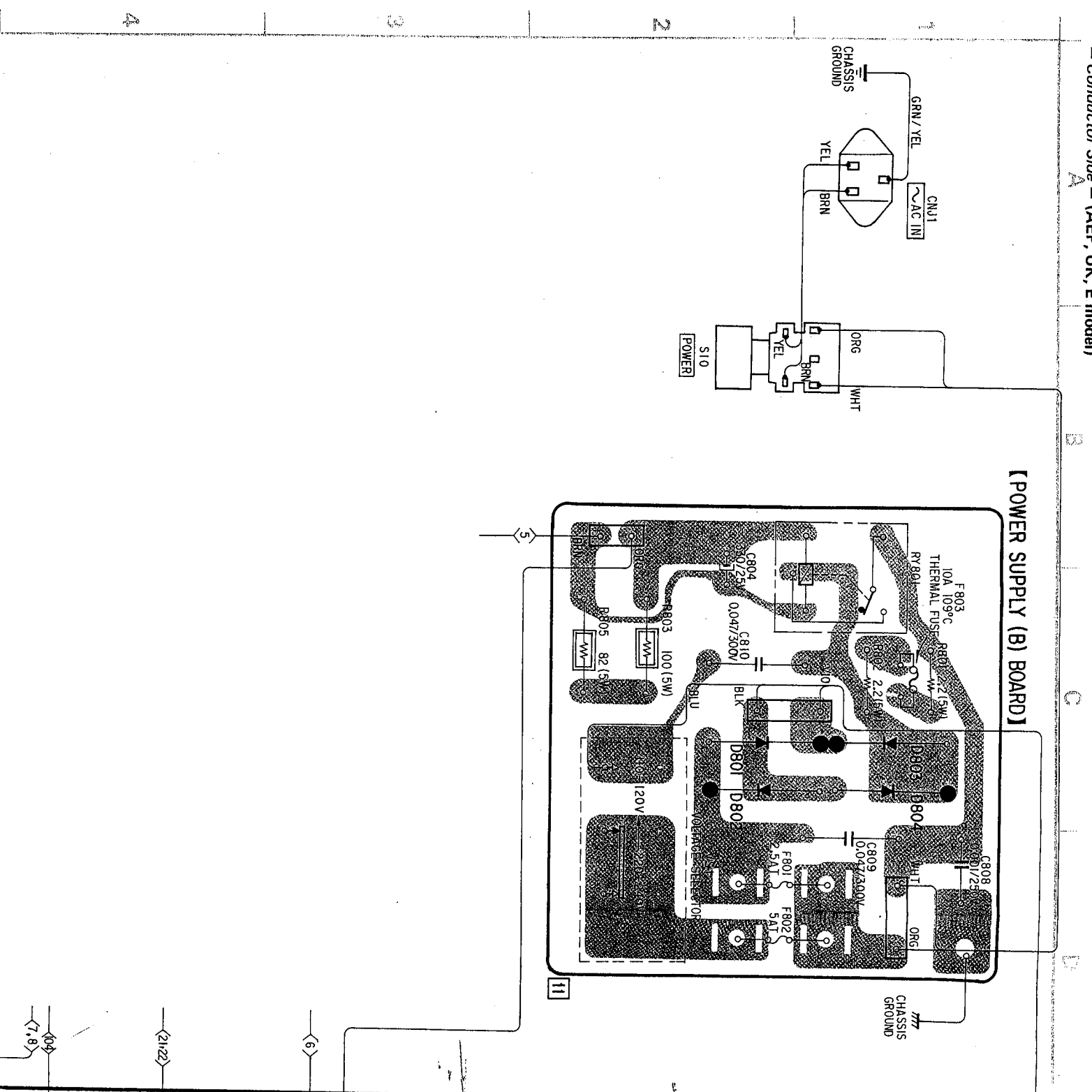
D403: MV12N



4-8. POWER SUPPLY BOARD MOUNTING DIAGRAM



4-9. POWER SUPPLY BOARD MOUNTING DIAGRAM



Note:

-  : parts extracted from the component side.
-  : B+ pattern
-  : B- pattern
-  : direct connection to points marked 

: direct connection to points marked $\frac{1}{2}$ on the

— 32 —

$$\begin{array}{c} | \\ \omega \\ \omega \\ | \end{array}$$

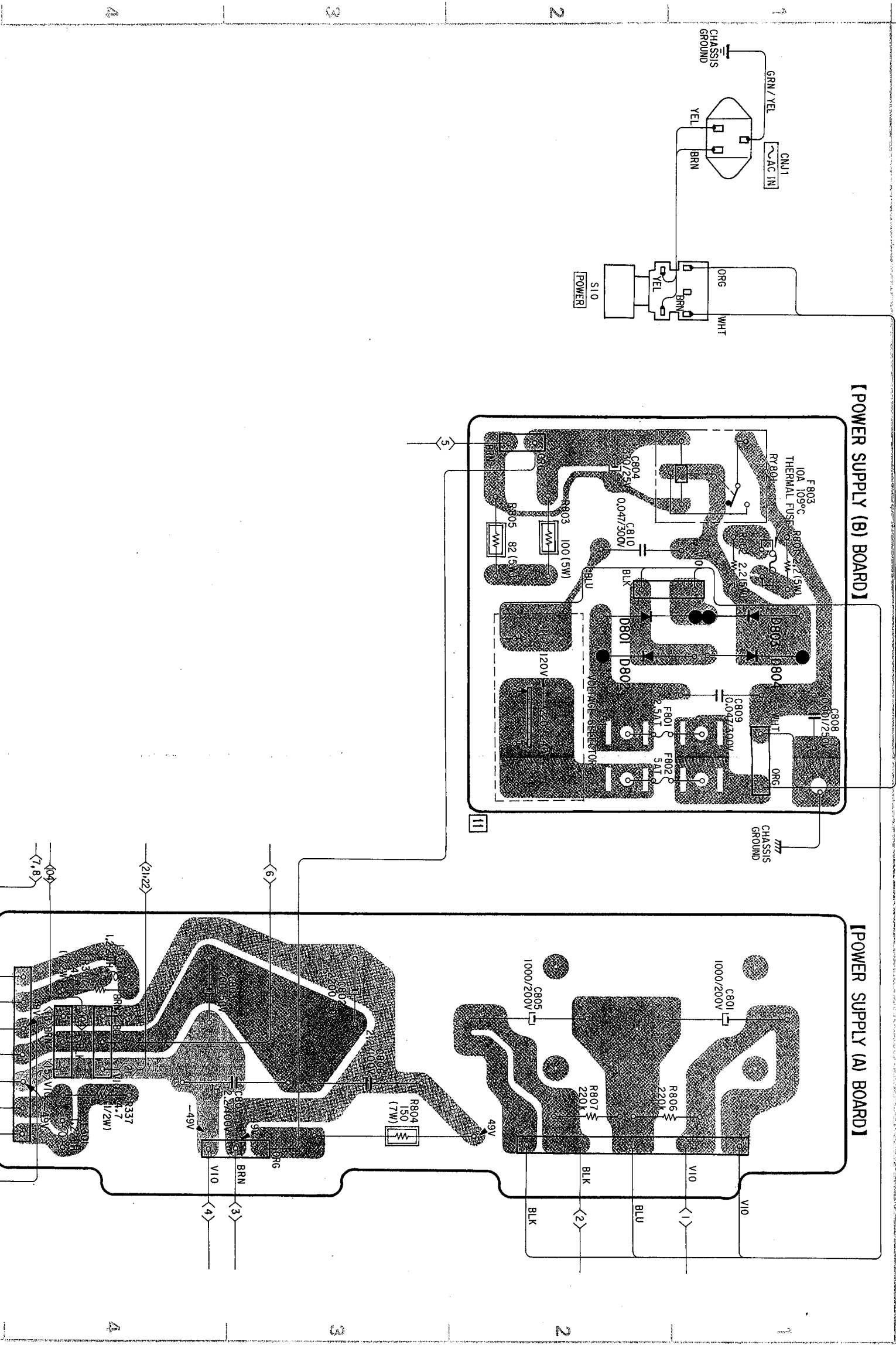
—13—18—

7.8

 $\langle 21, 22 \rangle$

9

4.9. POWER SUPPLY BOARD MOUNTING DIAGRAM
— Conductor Side — (AEP, UK, E model)



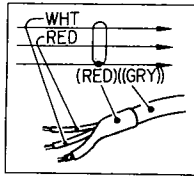
ote:
— : parts extracted from the component side.
: B+ pattern
: B- pattern
: direct connection to points marked — on the chassis.

4-10. POWER AMP BOARD MOUNTING DIAGRAM — Conductor Side —

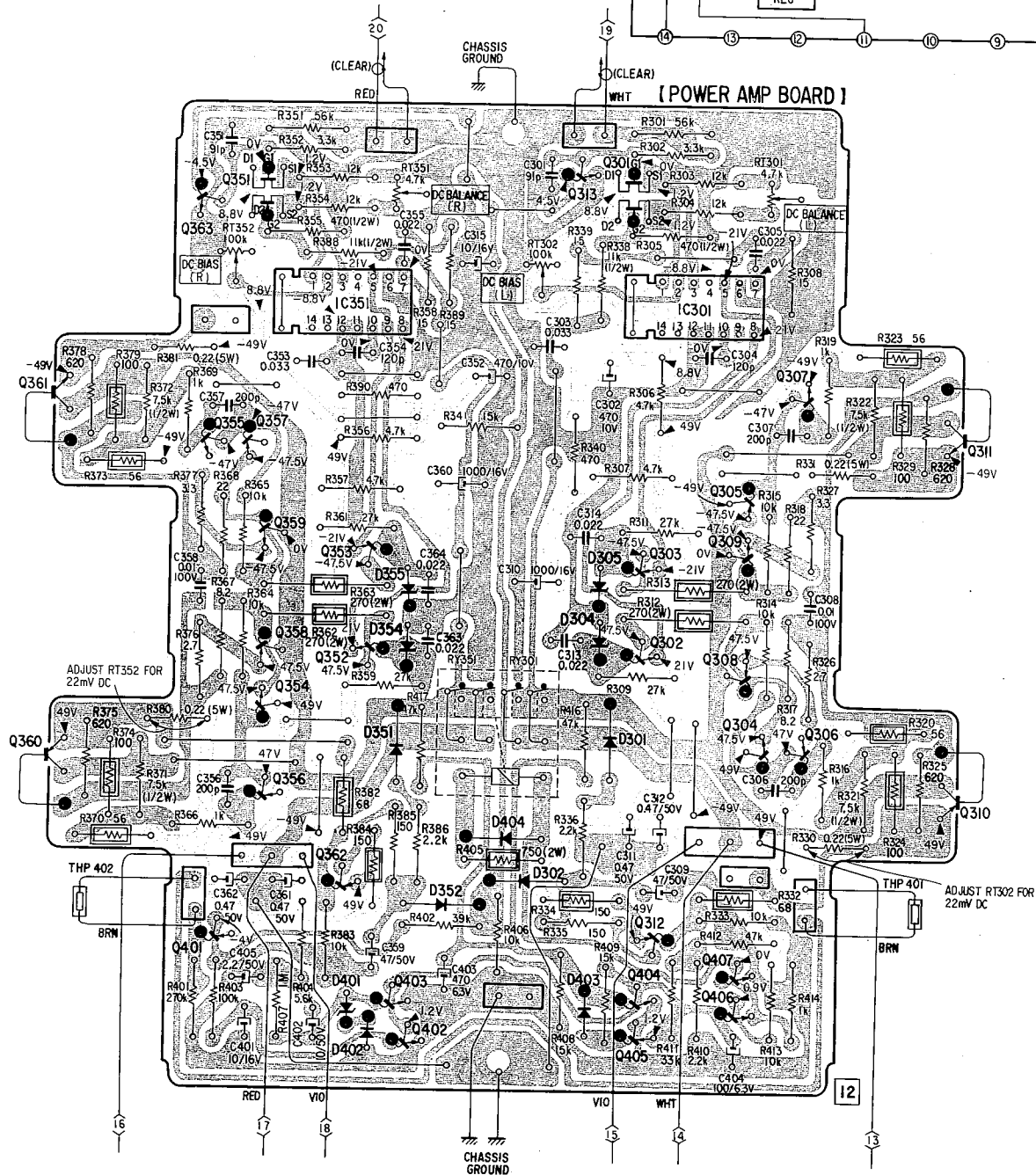
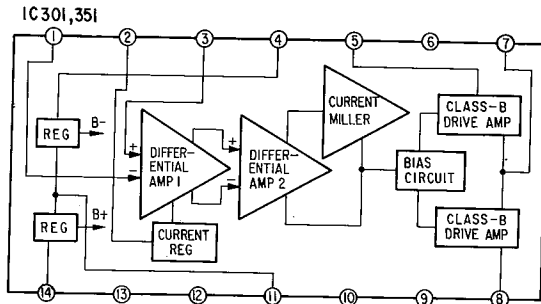
TA-F6B

Note:

- Color code of sleeving over the end of the jacket.



- ○ — : parts extracted from the component side.
- : B+ pattern

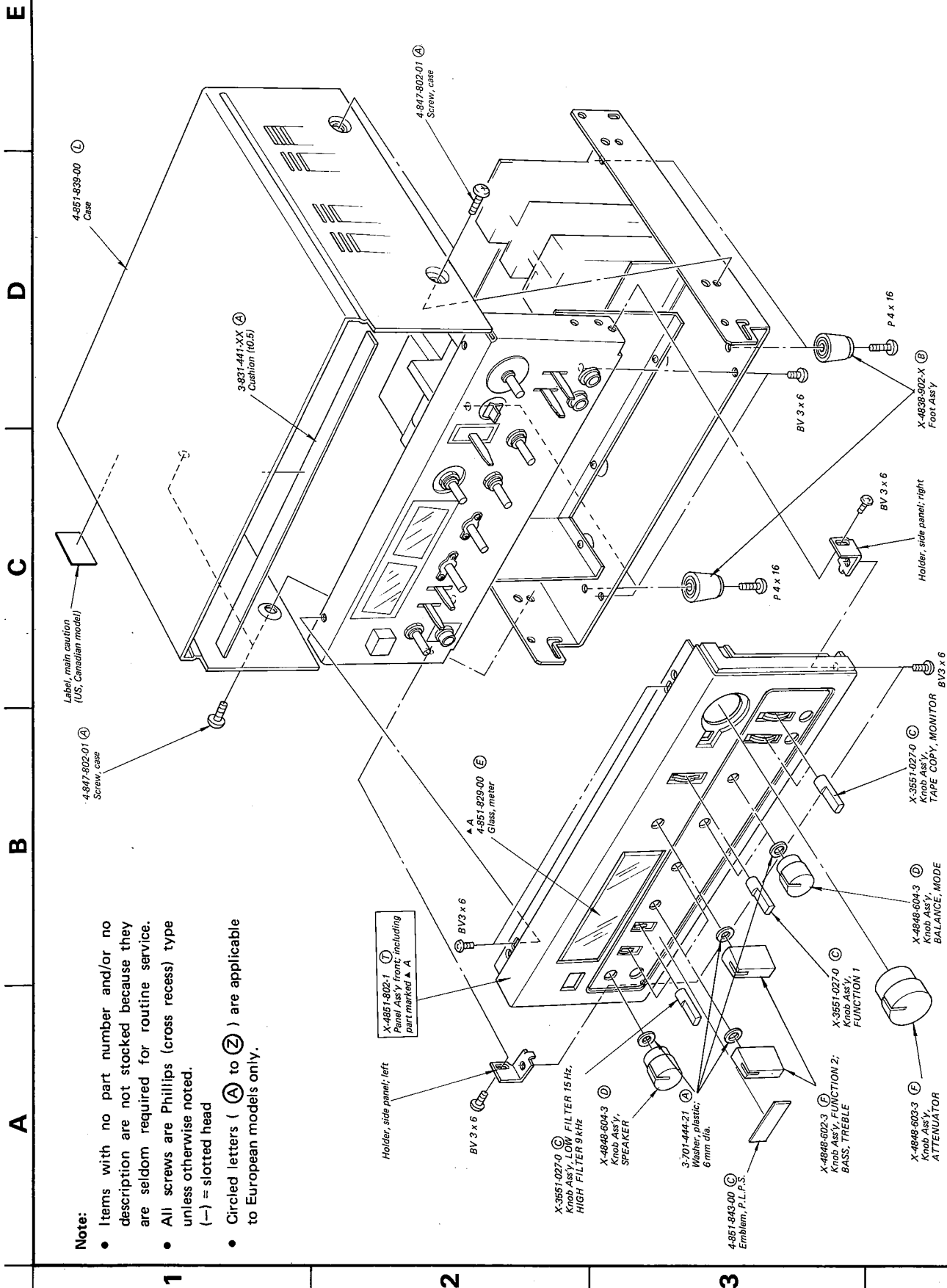


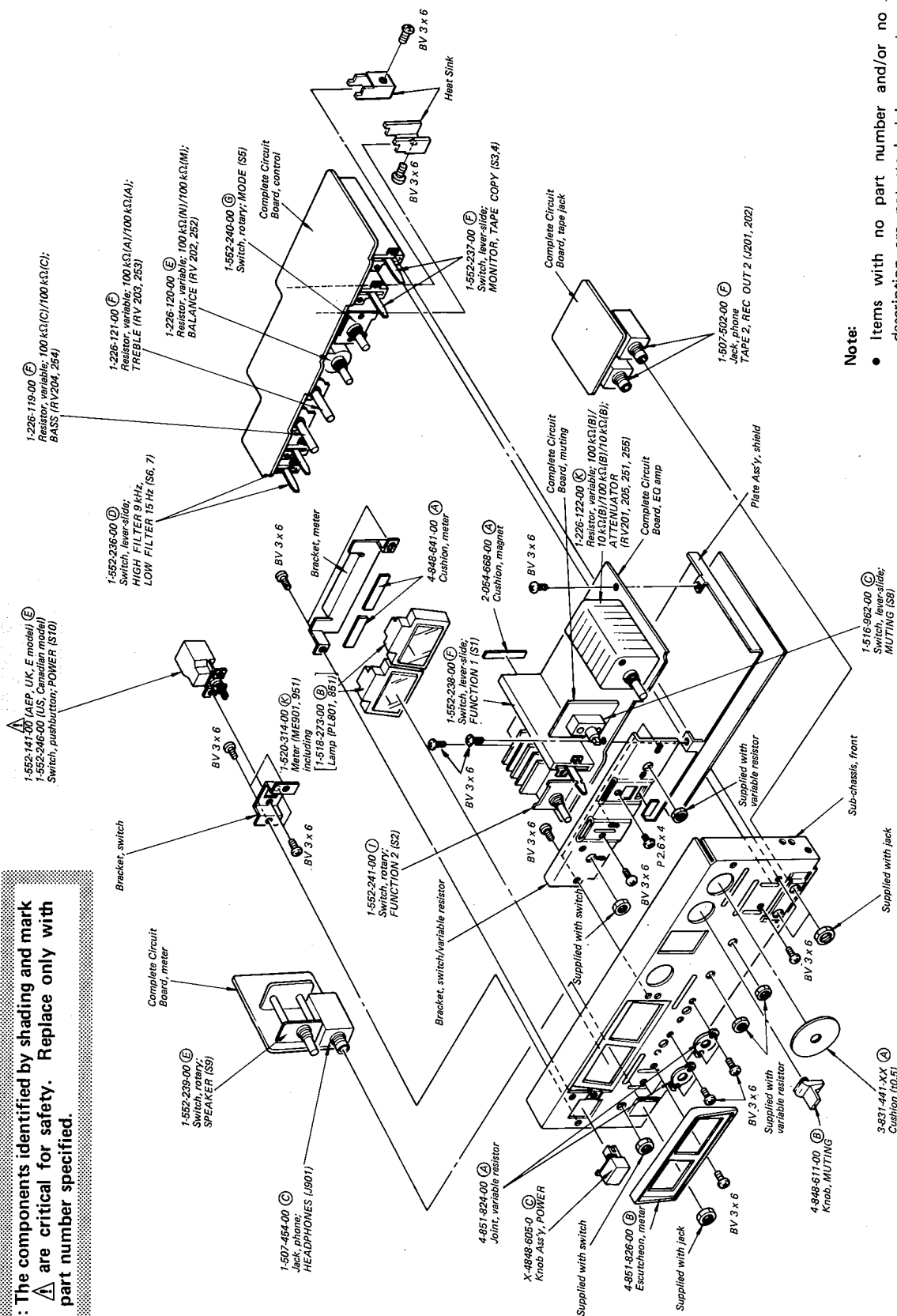
Q, IC	361	363	351	IC351	313	301	IC301	305	307		
		355	357	353		303		309			
			359	352		302		308			
	360	401	358	362	403	312		304	306	311	Q, IC
			354		402	404		407		310	
			356			405		406			
D				401	351	355	404	305	304		
				402	352	303	302	301			D

SECTION 5

EXPLODED VIEWS

5-1.





Note:

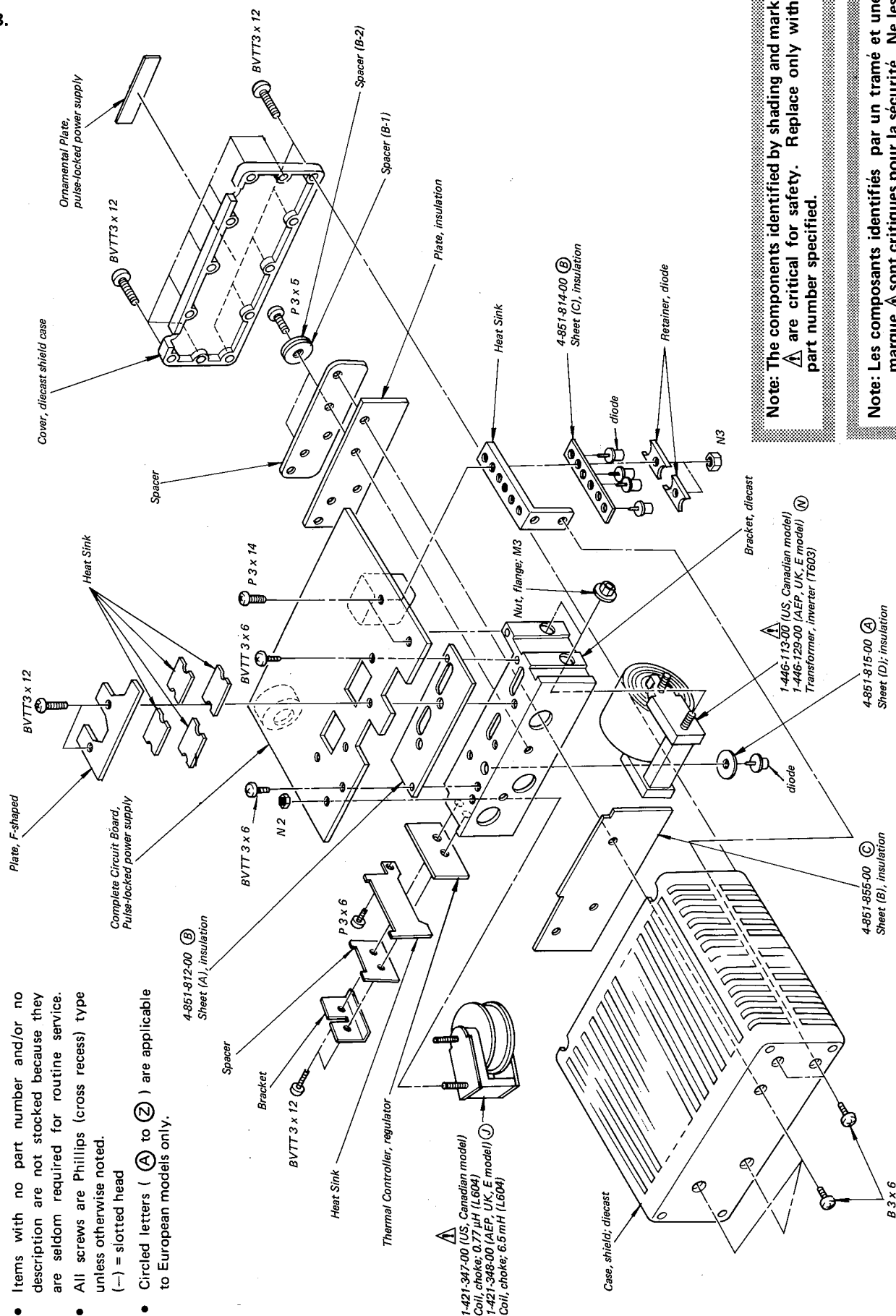
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- Circled letters (**A** to **Z**) are applicable to European models only.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

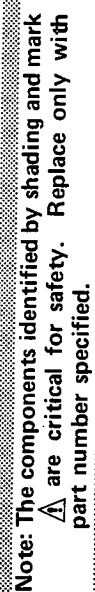
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head
- Circled letters (**A** to **Z**) are applicable to European models only.



Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head

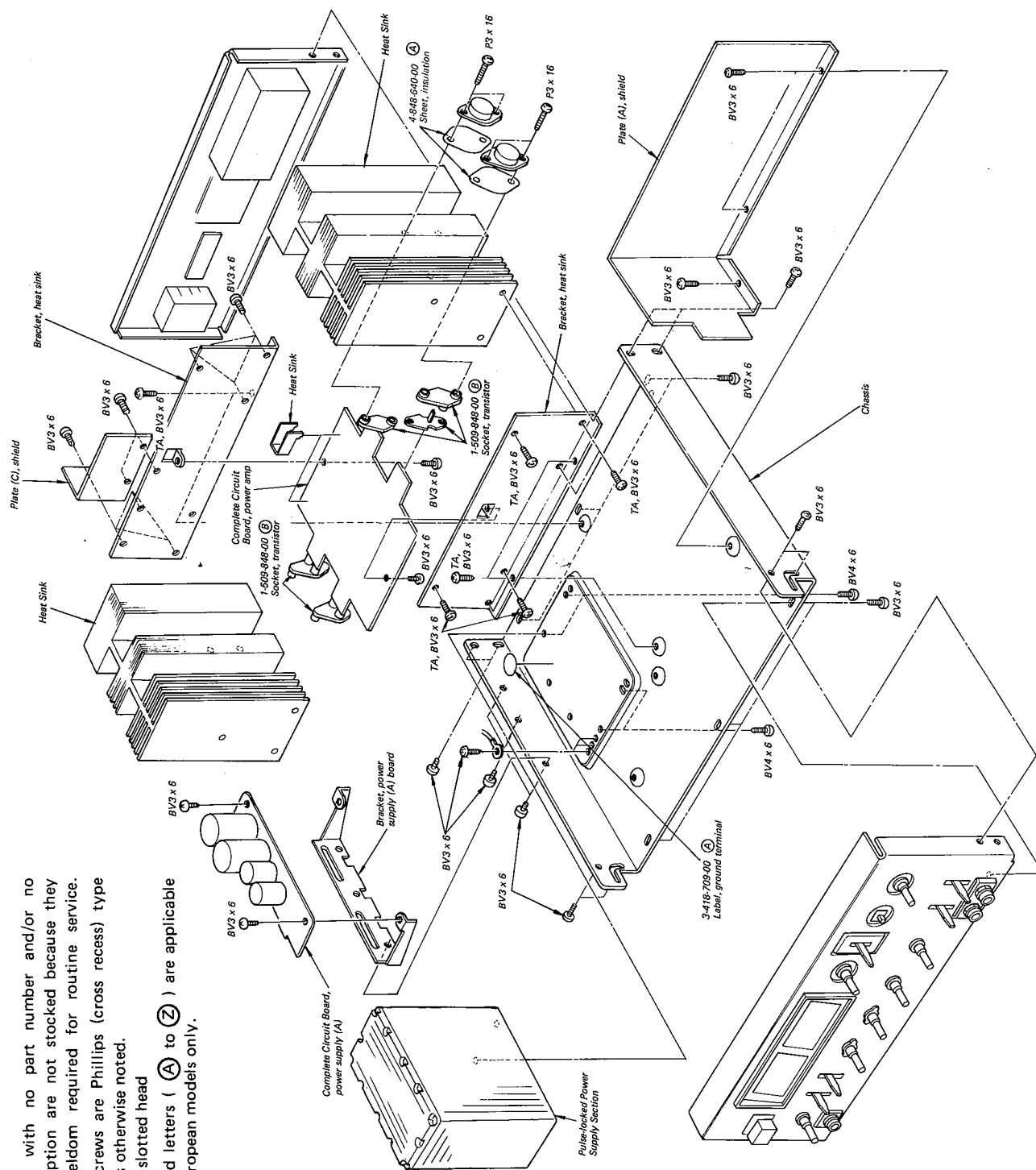


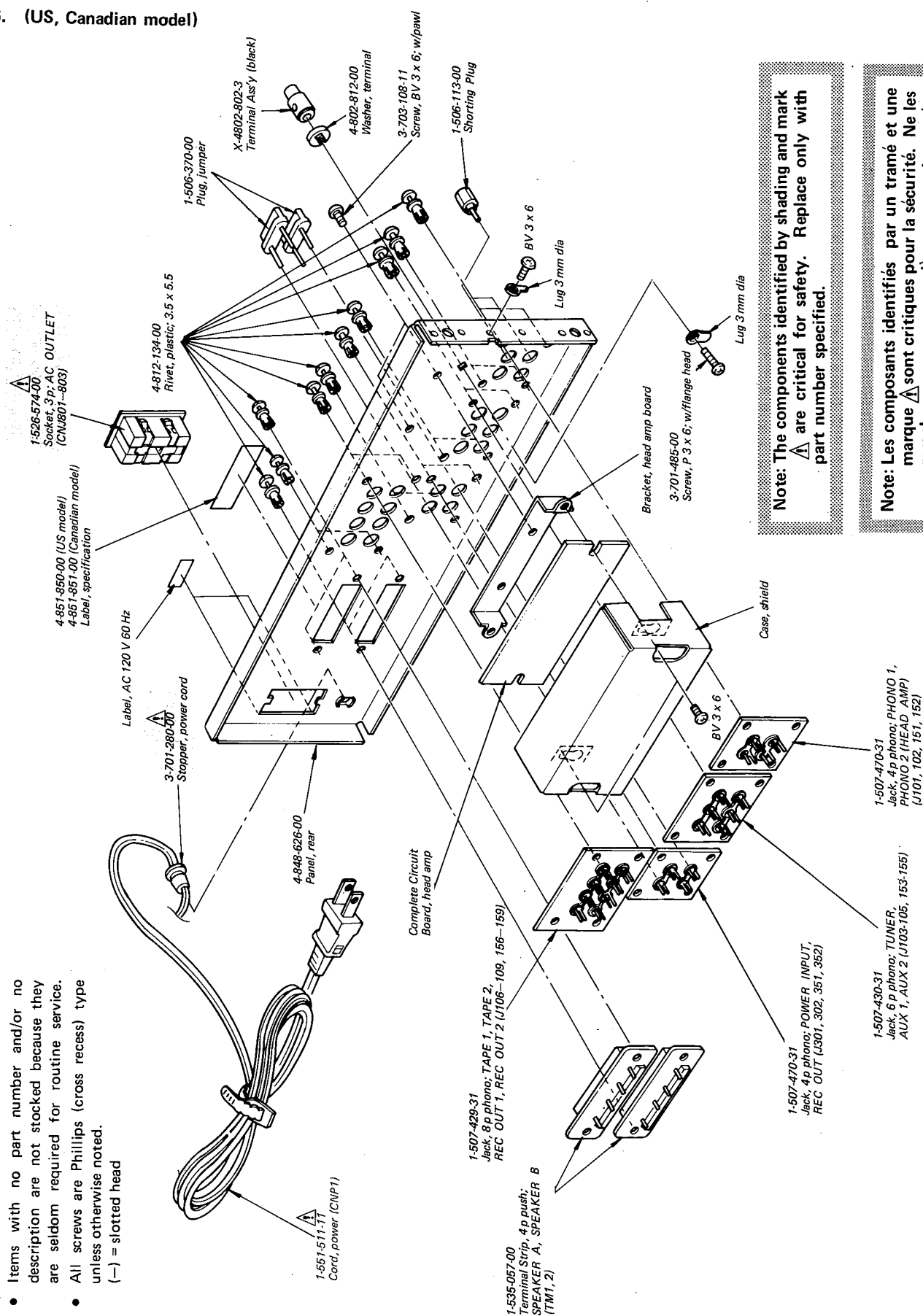
Note: Les composants identifiés par un tramé et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-5. (AEP, UK, E model)

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (—) = slotted head
- Circled letters (A to Z) are applicable to European models only.





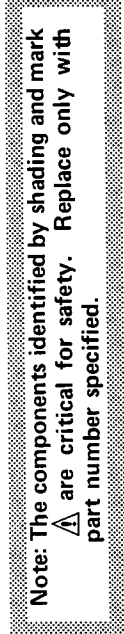
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque  sont critiqués pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3

- All screws are Phillips (cross recess) type

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- Unless otherwise noted, (—) = slotted head
- Circled letters (A) to (Z) = European models only



Note: Les composants identifiés par un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
C313, 363 C314, 364	1-101-924-00	(A) 0.022
C315	1-121-651-00	(A) 10 16 V elect
C401	1-121-651-00	(A) 10 16 V elect
C402	1-121-738-00	(A) 10 50 V elect
C403	1-121-424-00	(B) 470 6.3 V elect
C404	1-121-413-00	(A) 100 6.3 V elect
C405	1-121-450-00	(A) 2.2 50 V elect
C501, 502	1-102-978-00	(A) 220 p
C503, 504	1-121-480-00	(A) 22 25 V elect
C505, 506	1-121-261-00	(B) 220 35 V elect
C507, 508	1-101-880-00	(A) 47 p
C509	1-121-396-00	(A) 4.7 50 V elect
C510	1-102-978-00	(A) 220 p
C511	1-121-480-00	(A) 22 25 V elect
C512	1-121-736-00	(B) 1000 10 V elect
C601	(A) 1-130-141-00	(A) 0.01 630 V polyethylene
C602, 603	(A) 1-102-070-00	0.001 150 V (US, Canadian model)
C602, 603	(A) 1-115-149-00	(C) 0.0015 450 V paper (AEP, UK, E model)
C604	(A) 1-123-401-00	47 200 V elect (US, Canadian model)
C604	(A) 1-123-402-00	(C) 22 400 V elect (AEP, UK, E model)
C605	(A) 1-161-438-00	(A) 560 p 500 V
C606	(A) 1-121-726-00	(A) 0.47 50 V elect
C607	(A) 1-108-239-00	(A) 0.01 mylar
C608	(A) 1-121-651-00	(A) 10 16 V elect
C609	(A) 1-108-227-00	(A) 0.01 mylar
C611	(A) 1-108-234-00	(A) 0.0047 mylar
C612	(A) 1-108-239-00	(A) 0.01 mylar
C613	(A) 1-123-277-00	68 160 V elect (US, Canadian model)
C613	(A) 1-123-280-00	(C) 33 350 V elect (AEP, UK, E model)
C614, 615	(A) 1-121-656-00	(B) 330 50 V elect
C616, 617	(A) 1-121-417-00	(B) 100 50 V elect
C618	(A) 1-130-141-00	(A) 0.01 630 V polyethylene

Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
C701, 751	1-131-429-00	(F) 470 3.15 V tantalum
C702, 752	1-130-127-00	(B) 0.015 100 V polyethylene
C703, 753	1-102-074-00	(A) 0.001
C704, 754	1-102-823-00	(A) 430 p
C705, 755	1-101-880-00	(A) 47 p
C706, 756	1-101-059-00	(A) 510 p
C707, 757 C708, 758	1-121-751-00	(B) 330 6.3 V elect
C709, 759	1-130-127-00	(B) 0.015 100 V polyethylene
C710, 760	1-131-377-00	(B) 10 10 V tantalum
C711, 761	1-121-420-00	(B) 220 10 V elect
C801	(A) 1-125-180-00	1200 200 V elect (US, Canadian model)
C801	(A) 1-125-179-00	(I) 1000 200 V elect (AEP, UK, E model)
C802, 803	1-123-256-00	(D) 2200 50 V elect
C804	1-121-654-00	(B) 230 25 V elect
C805	(A) 1-130-090-00	2.2 250 V polyethylene (US, Canadian model)
C805	(A) 1-125-179-00	(I) 1000 200 V elect (AEP, UK, E model)
C806, 807	1-130-084-00	(D) 2.2 100 V polyethylene (AEP, UK, E model)
C808	(A) 1-102-222-00	(B) 1000 p 250 V (AEP, UK, E model)
C809, 810	(A) 1-108-749-00	(B) 0.047 300 V mylar (AEP, UK, E model)
C901, 951	1-121-395-00	(A) 4.7 25 V elect
C902, 952	1-121-479-00	(A) 22 16 V elect

RESISTORS

All resistors are in ohms. Common ¼ W carbon resistors are omitted. Refer to the list on page 49 for their part numbers. All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
kΩ : 1000 Ω

R101, 151	1-244-914-00	(A) 51 k	½ W	carbon
R106, 156	1-244-849-00	(A) 100	½ W	carbon
R110, 160	1-214-148-00	(A) 4.7 k	¼ W	metal oxide 1 %
R111, 161	1-214-174-00	(A) 56 k	¼ W	metal oxide 1 %
R122, 172	1-244-857-00	(A) 220	½ W	carbon

Note: Les composants identifiés par un trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
R305, 355	1-244-865-00 (A) 470	½ W carbon
R312, 362	(A) 1-206-650-00 (A) 270	2 W metal oxide (nonflammable)
R313, 363	(A) 1-211-516-00 (B) 56	¼ W carbon (nonflammable)
R320, 370	(A) 1-211-516-00 (B) 56	¼ W carbon (nonflammable)
R321, 371	1-244-894-00 (A) 7.5 k	½ W carbon
R322, 372	(A) 1-211-516-00 (B) 56	¼ W carbon (nonflammable)
R323, 373	(A) 1-211-516-00 (B) 56	¼ W carbon (nonflammable)
R324, 374	(A) 1-211-522-00 (C) 100	¼ W carbon (nonflammable)
R329, 379	(A) 1-211-522-00 (C) 100	¼ W carbon (nonflammable)
R330, 380	1-217-156-00 (A) 0.22	5 W wirewound
R331, 381	(A) 1-211-518-00 (C) 68	¼ W carbon (nonflammable)
R332, 382	(A) 1-211-518-00 (C) 68	¼ W carbon (nonflammable)
R334, 384	(A) 1-211-526-00 (C) 150	¼ W carbon (nonflammable)
R337, 387	1-244-817-00 (A) 4.7	½ W carbon
R405	(A) 1-206-661-00 (A) 750	2 W metal oxide (nonflammable)
R501, 508	(A) 1-206-483-00 (A) 68	2 W metal oxide (nonflammable)
R514	1-244-859-00 (A) 270	½ W carbon
R601	(A) 1-211-490-00 4.7	¼ W carbon (nonflammable) (US, Canadian model)
R601	(A) 1-211-514-00 (A) 47	¼ W carbon (nonflammable) (AEP, UK, E model)
R602	(A) 1-211-498-00 10	¼ W carbon (nonflammable) (US, Canadian model)
R602	(A) 1-211-528-00 (A) 180	¼ W carbon (nonflammable) (AEP, UK, E model)
R603	(A) 1-211-514-00 47	¼ W carbon (nonflammable) (US, Canadian model)
R603	(A) 1-211-518-00 (C) 68	¼ W carbon (nonflammable) (AEP, UK, E model)

Ref. No.	Part No.	Description
R604	(A) 1-211-528-00 180	¼ W carbon (nonflammable) (US, Canadian model)
R604	(A) 1-211-522-00 (C) 100	¼ W carbon (nonflammable) (AEP, UK, E model)
R605	(A) 1-214-596-00 39 k	2 W metal oxide (nonflammable) (US, Canadian model)
R605	(A) 1-206-698-00 (A) 27 k	2 W metal oxide (nonflammable) (AEP, UK, E model)
R606	(A) 1-244-915-00 56 k	½ W carbon (US, Canadian model)
R606	(A) 1-214-595-00 (A) 100 k	1 W metal oxide (nonflammable) (AEP, UK E model)
R607	(A) 1-214-598-00 (A) 56 k	1 W metal oxide (nonflammable)
R608	(A) 1-246-473-00 (A) 1 k	¼ W carbon
R609	(A) 1-244-915-00 56 k	½ W carbon (US, Canadian model)
R609	(A) 1-214-595-00 (A) 100 k	1 W metal oxide (nonflammable) (AEP, UK, E model)
R610	(A) 1-211-945-00 (A) 2.2 k	¼ W carbon (nonflammable)
R611	(A) 1-211-532-00 (C) 270	¼ W carbon (nonflammable)
R612	(A) 1-246-521-00 100 k	¼ W carbon (US, Canadian model)
R612	(A) 1-246-519-00 (A) 68 k	¼ W carbon (AEP, UK, E model)
R613	(A) 1-211-534-00 (C) 330	¼ W carbon (nonflammable)
R614	(A) 1-246-519-00 68 k	¼ W carbon (US, Canadian model)
R614	(A) 1-244-927-00 (A) 180 k	½ W carbon (AEP, UK, E model)
R615	(A) 1-211-553-00 (A) 2.7 k	¼ W carbon (nonflammable)
R618	(A) 1-246-479-00 (A) 1.8 k	¼ W carbon
R619	(A) 1-246-497-00 (A) 10 k	¼ W carbon

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 6

ELECTRICAL PARTS LIST

Note: Circled letters (A to Z) are applicable to European models only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
SEMICONDUCTORS		
Transistors		
Q101, 151	8-765-342-10 (E)	2SK97
⇒ Q102, 152	8-729-387-28 (B)	2SA872E
⇒ Q103, 153		
⇒ Q104, 154	8-722-384-01 (C)	2SK23A-840 (blue)
Q105, 155	8-729-203-04 (B)	2SK30A
⇒ Q106, 156	8-729-387-28 (B)	2SA872E
⇒ Q107, 157	8-723-304-00 (B)	2SK43-4
⇒ Q108, 158	8-729-387-28 (B)	2SA872E
⇒ Q109, 159	8-729-377-58 (B)	2SC1775E
Q110, 160	8-729-366-71 (B)	2SD667
Q111, 161	8-729-364-71 (B)	2SB647
⇒ Q112, 162	8-723-304-00 (B)	2SK43-4
Q301, 351	8-761-510-06 (F)	2SK58
Q302, 352	8-729-366-81 (C)	2SD668
Q303, 353	8-729-364-81 (C)	2SB648
⇒ Q304, 354	8-729-663-47 (B)	2SC1364
Q305	8-727-788-00 (B)	2SA678
⇒ Q 355	8-729-663-47 (B)	2SC1364
Q306, 356	8-727-788-00 (B)	2SA678
⇒ Q307	8-729-663-47 (B)	2SC1364
Q 357	8-727-788-00 (B)	2SA678
Q308, 358	8-729-364-71 (B)	2SB647
Q309, 359	8-729-366-71 (B)	2SD667
Q310, 360	8-729-365-53 (I)	2SB655
Q311, 361	8-729-367-53 (G)	2SD675
Q312, 362	8-727-788-00 (B)	2SA678
⇒ Q313, 363	8-729-663-47 (B)	2SC1364
Q401	8-727-788-00 (B)	2SA678
⇒ Q402-404	8-729-663-47 (B)	2SC1364
Q405	8-727-788-00 (B)	2SA678
⇒ Q406, 407	8-729-663-47 (B)	2SC1364
⇒ Q501, 502	8-727-314-00 (C)	2SK42-4
Q503	8-729-316-12 (C)	2SC1061
⇒ Q504, 505	8-729-377-59 (B)	2SC1775F
⇒ Q506, 507	8-729-163-93 (B)	2SA639S
Q508	8-729-317-12 (C)	2SA671
Q509	8-729-203-04 (B)	2SK30A

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
⇒ Q510	8-760-413-10 (B)	2SC1475
⇒ Q511, 512	8-729-377-59 (B)	2SC1775F
⇒ Q601	△8-729-308-71	2SC1986D-R (US, Canadian model)
⇒ Q601	△8-729-302-31 (D)	2SC2023-R (AEP, UK, E model)
Q602	△8-765-170-01	2SC1962 (US, Canadian model)
⇒ Q602	△8-729-377-59 (B)	2SC1775F (AEP, UK, E model)
Q603	△8-765-082-20	2SA896 (US, Canadian model)
Q603	△8-765-141-00 (H)	2SA911 (AEP, UK, E model)
Q604	△8-765-012-20	2SC1811 (US, Canadian model)
⇒ Q604	△8-729-377-59 (B)	2SC1775F (AEP, UK, E model)
⇒ Q605, 606	△8-727-788-00 (B)	2SA678
⇒ Q607	△8-729-163-93 (B)	2SA639S
⇒ Q608	△8-729-377-59 (B)	2SC1775F
⇒ Q609-612	△8-729-308-72	2SC1986D-O (US, Canadian model)
⇒ Q609-612	△8-729-302-31 (D)	2SC2023-R
	△8-729-302-32 (D)	2SC2023-O (AEP, UK, E model)
⇒ Q613	△8-729-308-71	2SC1986D-R (US, Canadian model)
⇒ Q613	△8-729-302-31 (D)	2SC2023-R (AEP, UK, E model)
⇒ Q701, 751	8-761-710-00 (B)	2SC1637-1
⇒ Q704, 754		
⇒ Q705, 755	8-729-387-28 (B)	2SA872E
⇒ Q706, 756		
ICs		
IC201, 251	8-759-314-57 (C)	HA1457
IC301, 351	8-751-710-00 (G)	CX171
Diodes		
D101, 151	8-719-912-00 (B)	MV12N
⇒ D102, 152	8-719-931-26 (B)	EQB01-26
⇒ D103, 153		
⇒ D201, 251	8-719-931-21 (B)	EQB01-21
⇒ D202, 252		
D301, 351	8-719-815-55 (A)	1S1555
D302, 352		
⇒ D304, 354	8-719-931-21 (B)	EQB01-21
⇒ D305, 355		
⇒ D401	8-719-931-07 (B)	EQB01-07
D402	8-719-815-55 (A)	1S1555
D403	8-719-912-00 (B)	MV12N
D404	8-719-815-55 (A)	1S1555

Note: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
D601	A 8-719-303-41 C S34	
⇒D602	A 8-719-156-08 B RD5.6E	
D603-605	A 8-719-815-55 A 1S1555	
D608-611	A 8-719-303-41 C S34	
⇒D801-804	A 8-719-811-55 C U05G	
⇒D901, 951		
⇒D902, 952	8-719-422-21 A 1T22AM	
D903, 953	8-719-815-55 A 1S1555	

MISCELLANEOUS

THP401, 4021-800-427-00 **B** Thermistor, positive

COILS

L301, 351	1-420-838-00 B 1.22 μ H	
L601	A 1-421-349-00 G Line Filter (AEP, UK, E model)	
L601	A 1-421-259-00 Line Filter (US, Canadian model)	
L602	A 1-421-329-00 B Choke, 10 μ H	
L603	A 1-407-161-XX A Microinductor, 22 μ H	
L604	A 1-421-347-00 Choke, 0.77 μ H (US, Canadian model)	
L604	A 1-421-348-00 J Choke, 6.5 mH (AEP, UK, E model)	
L605-608	A 1-421-329-00 B Choke, 10 μ H	

TRANSFORMERS

T601	A 1-543-098-00 B Core (yellow)	
T601	A 1-543-100-00 B Core (blue)	
T602	A 1-543-121-00 B Core	
T603	A 1-446-113-00 Inverter (US, Canadian model)	
T603	A 1-446-129-00 N Inverter (AEP, UK, E model)	

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted.
50 WV or less are not indicated except for electrolytics.
p : μ F, elect : electrolytic

C101, 151	1-102-963-00 A 33 p	
C102, 152	1-102-129-00 A 0.01	
C103, 153	1-102-115-00 A 560 p	
C104, 154	1-130-125-00 B 0.016 100 V polyethylene	
C105, 155	1-130-126-00 B 0.056 100 V polyethylene	

Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
C106, 156	1-102-973-00 A 100 p	
C107, 157	1-131-417-00 B 3.3 16 V tantalum	
C108, 158	1-102-963-00 A 33 p	
C109, 159	1-121-413-00 A 100 6.3 V elect	
C111, 161		
C112, 162	1-121-396-00 A 4.7 50 V elect	
C113, 163	1-130-133-00 B 0.056 100 V polyethylene	
C114, 164	1-121-352-00 A 47 10 V elect	
C115, 165		
C116, 166	1-121-261-00 B 220 35 V elect	
C201, 251	1-121-450-00 A 2.2 50 V elect	
C202, 252	1-102-945-00 A 8 p	
C203, 253	1-102-808-00 A 6 p	
C204, 254	1-102-934-00 A 1 p	
C205, 255	1-121-411-00 A 47 50 V elect	
C206, 256	1-121-396-00 A 4.7 50 V elect	
C207, 257	1-101-059-00 A 510 p	
C208, 258	1-102-979-00 A 240 p	
C209, 259	1-108-581-00 A 0.012 mylar	
C210, 260	1-108-585-00 A 0.018 mylar	
C211, 261	1-108-607-00 B 0.15 mylar	
C212, 262	1-108-585-00 A 0.018 mylar	
C213, 263	1-131-347-00 B 1 25 V tantalum	
C214, 264	1-121-450-00 A 2.2 50 V elect	
C215, 265	1-130-133-00 B 0.056 100 V polyethylene	
C216, 266	1-121-396-00 A 4.7 50 V elect	
C217, 267	1-130-133-00 B 0.056 100 V polyethylene	
C218, 268		
C219, 269	1-121-416-00 B 100 25 V elect	
C301, 351	1-102-972-00 A 91 p	
C302, 352	1-121-425-00 B 470 10 V elect	
C303, 353	1-108-591-00 A 0.033 mylar	
C304, 354	1-102-816-00 A 120 p	
C305, 355	1-108-587-00 A 0.022 mylar	
C306, 356		
C307, 357	1-102-977-00 A 200 p	
C308, 358	1-108-377-00 A 0.01 100 V mylar	
C309, 359	1-121-411-00 A 47 50 V elect	
C310, 360	1-121-245-00 B 1000 16 V elect	
C311, 361		
C312, 362	1-121-726-00 A 0.47 50 V elect	

Note: Les composants identifiés par un trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
R620	1-246-511-00 (A) 39 k	¼ W carbon
R621	1-246-469-00 680	¼ W carbon (US, Canadian model)
R621	1-246-470-00 (A) 750	¼ W carbon (AEP, UK, E model)
R622	1-217-156-00 (A) 0.22	5 W wirewound
R623	1-246-451-00 120	¼ W carbon (US, Canadian model)
R623	1-246-449-00 (A) 100	¼ W carbon (AEP, UK, E model)
R624	1-214-596-00 39 k	2 W metal oxide (nonflammable) (US, Canadian model)
R624-626	1-206-698-00 (A) 27 k	2 W metal oxide (nonflammable) (AEP, UK, E model)
R701, 751	1-244-850-00 (A) 110	½ W carbon
R705, 755	1-244-879-00 (A) 1.8 k	½ W carbon
R708, 758	1-244-845-00 (A) 68	½ W carbon
R709, 759	1-244-809-00 (A) 2.2	½ W carbon
R801, 802	1-217-570-00 (B) 2.2	5 W metal oxide
R803	1-217-312-00 150	5 W wirewound (nonflammable) (US, Canadian model)
R803	1-217-310-00 (B) 100	5 W wirewound (nonflammable) (AEP, UK, E model)
R804	1-217-347-00 (B) 150	7 W wirewound (nonflammable) (AEP, UK, E model)
R805	1-217-313-00 180	5 W wirewound (nonflammable) (US, Canadian model)
R805	1-217-309-00 (B) 82	5 W wirewound (nonflammable) (AEP, UK, E model)
R901, 951	1-244-877-00 (A) 1.5 k	½ W carbon
R902, 952	1-244-881-00 (A) 2.2 k	½ W carbon
R904, 954	1-207-640-00 (B) 470	2 W wirewound (nonflammable)
R905, 955	1-244-865-00 (A) 470	½ W carbon

Ref. No.	Part No.	Description
RT301, 351	1-224-251-XX (C) 4.7 k	adjustable; dc balance
RT302, 352	1-224-255-XX (C) 100 k	adjustable; dc bias
RT601	1-224-642-XX (B) 1 k	adjustable; dc voltage
RT901, 951	1-224-489-00 (B) 2.2 k	adjustable; meter level calibration
RV201, 251	1-226-122-00 (K) 100 k/100 k/10 k/10 k	variable; ATTENUATOR
RV202, 252	1-226-120-00 (E) 100 k (N)/100 k (M)	variable; BALANCE
RV203, 253	1-226-121-00 (F) 100 k (A)/100 k (A)	variable; TREBLE
RV204, 254	1-226-119-00 (F) 100 k (C)/100 k (C)	variable; BASS

SWITCHES

S1	1-552-238-00 (F) Lever-slide; FUNCTION (1)
S2	1-552-241-00 (I) Rotary; FUNCTION (2)
S3, 4	1-552-237-00 (F) Lever-slide; MONITOR, TAPE COPY
S5	1-552-240-00 (G) Rotary; MODE
S6, 7	1-552-236-00 (D) Lever-slide; HIGH FILTER 9 kHz, LOW FILTER 15 HZ
S8	1-516-962-00 (C) Lever-slide; MUTING
S9	1-552-239-00 (E) Rotary; SPEAKER
S10	1-552-141-00 (E) Pushbutton; POWER (AEP, UK, E model)
S10	1-552-246-00 Pushbutton; POWER (US, Canadian model)
VS1	1-552-535-00 (C) Voltage Selector (AEP, UK, E model)

JACKS

J101, 151	1-507-470-31 (C) 4 p Phono, PHONO1, PHONO 2 (HEAD AMP)
J102, 152	
J103, 153	1-507-430-31 (D) 6 p Phono, TUNER, AUX 1, AUX 2
J105, 155	
J106, 156	1-507-429-31 (D) 8 p Phono, TAPE 1, TAPE 2, REC OUT 1, REC OUT 2
J109, 159	
J201, 202	1-507-502-00 (F) Phone, TAPE 2, REC OUT 2
J301, 351	1-507-470-31 (C) 4 p Phono, POWER INPUT, PRE OUTPUT
J302, 352	
J901	1-507-454-00 (C) Phone, HEADPHONES

Note: Les composants identifiés par un trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
MISCELLANEOUS		
CNJ1	1-509-546-11 (C) Socket, 3 p; ~ AC IN	(AEP, UK, E model)
CNJ801-803	1-526-574-00 Socket, 3 p; AC OUTLET	(US, Canadian model)
CNP1	1-551-511-11 Cord, power	(US, Canadian model)
CP1	1-231-326-11 Encapsulated Component	(US model)
CP1	1-231-341-00 Encapsulated Component	(Canadian model)

F801	1-532-272-XX Fuse, 5A (US, Canadian model)
F801	1-532-286-00 (B) Fuse, 2.5AT (AEP model: up to serial No. 501, 150) (UK model: up to serial No. 600, 050) (E model: up to serial No. 400, 100)
F801	1-532-237-00 (B) Fuse, 3,15AT (AEP model: serial No. 501, 151 and later) (UK model: serial No. 600, 051 and later) (E model: serial No. 400, 101 and later)
F802	1-532-496-00 Fuse, thermal; 10A 109°C (US, Canadian model)
F802	1-532-505-00 (B) Fuse, 5AT (AEP model: up to serial No. 501, 150) (UK model: up to serial No. 600, 050) (E model: up to serial No. 400, 100)
F802	1-532-325-00 (B) Fuse, 6.3AT (AEP model: serial No. 501, 151 and later) (UK model: serial No. 600, 051 and later) (E model: serial No. 400, 101 and later)
F803	1-532-496-00 (C) Fuse, thermal; 10A 109°C (AEP, UK, E model)

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

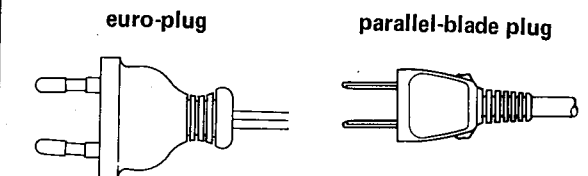
Note: Circled letters (A to Z) are applicable to European models only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
ME901, 951	1-520-314-00	(K) Meter, including PL801, 851
PL801, 851	1-518-273-00	(B) Lamp, meter; included in ME901, 951
RY301, 351	1-515-257-00	(H) Relay
RY801	<u>A</u> 1-515-278-00	(F) Relay
TM1, 2	1-535-057-00	(E) Terminal Strip, 4 p push; SPEAKER A, SPEAKER B
	1-506-370-00	(B) Plug, jumper
	1-509-848-00	(B) Socket, transistor
	1-543-060-00	(E) Core, bead

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
1-506-113-00	(B) Shorting Plug
1-534-754-00	Cord, power; parallel-blade plug (E model)
1-534-819-00	(G) Cord, power (UK model)
1-551-216-00	Cord, power; euro-plug (E model)
3-701-020-00	(A) Bag, check sheet
3-701-622-00	(A) Bag, plastic (Canadian, UK model)
3-770-247-11	(E) Manual, instruction (AEP, UK, E model)
3-770-247-21	Manual, instruction (US, Canadian model)
3-794-233-21	Sheet, consumer products (US model)
4-848-648-00	(B) Bag, protection
4-851-860-00	(F) Carton
4-851-861-00	(B) Cushion

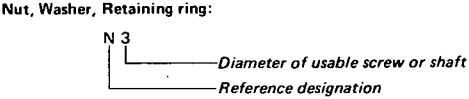
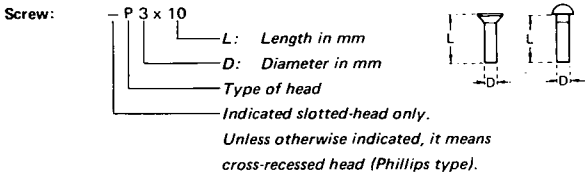
Power Cord -



1/4 WATT CARBON RESISTORS (A) Note: Circled letter (A) is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	