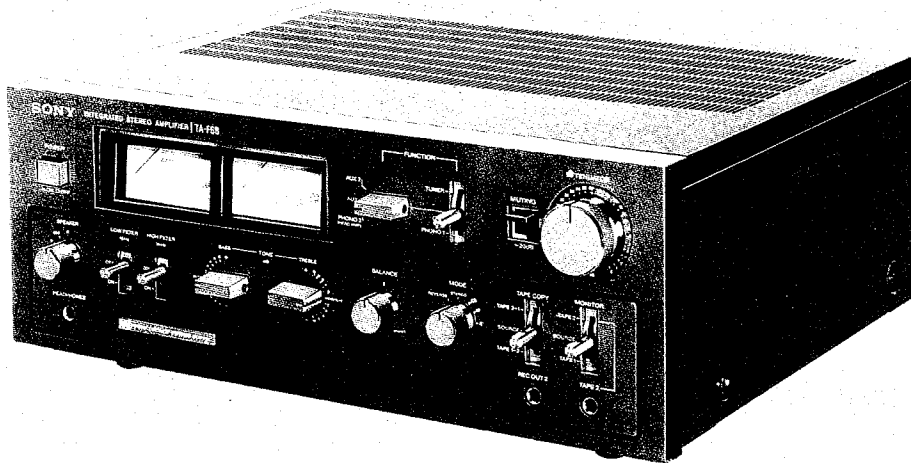


TA-F6B

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 ⁷ / ₈ (w) x 6 ³ / ₄ (h) x 15 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)


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

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.

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

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

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

Residual Noise: $-\infty$ (infinity)

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 $\begin{matrix} +0 \\ -1 \end{matrix}$ 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 ~ 50/60Hz 550W SERIAL NO.
MADE IN JAPAN	

Canadian model

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

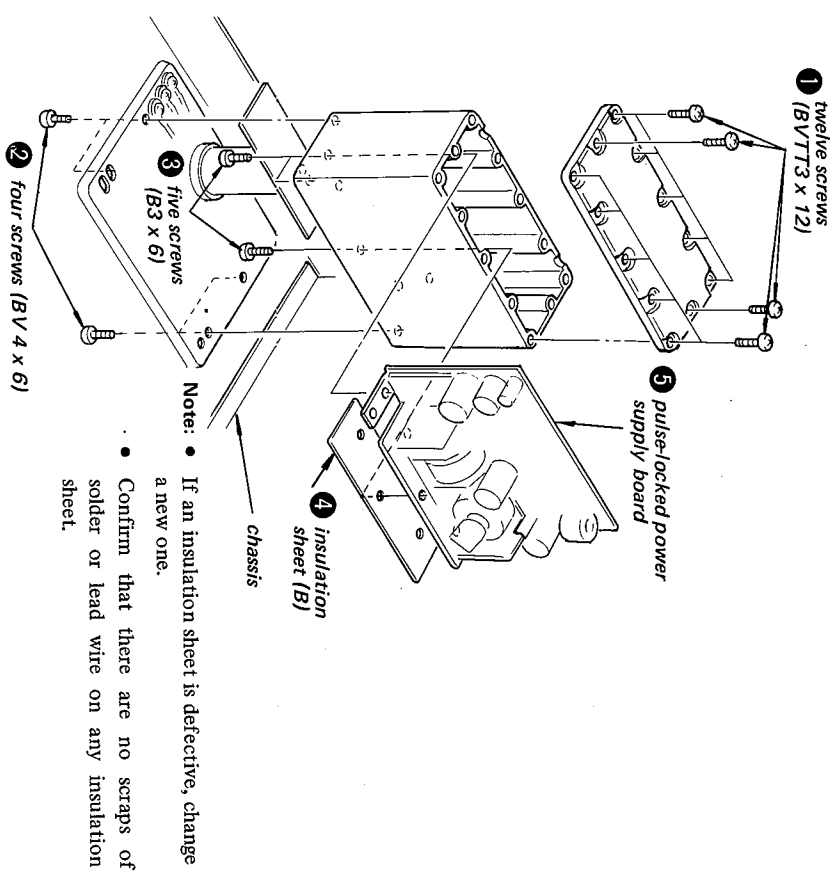
AEP, E model

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

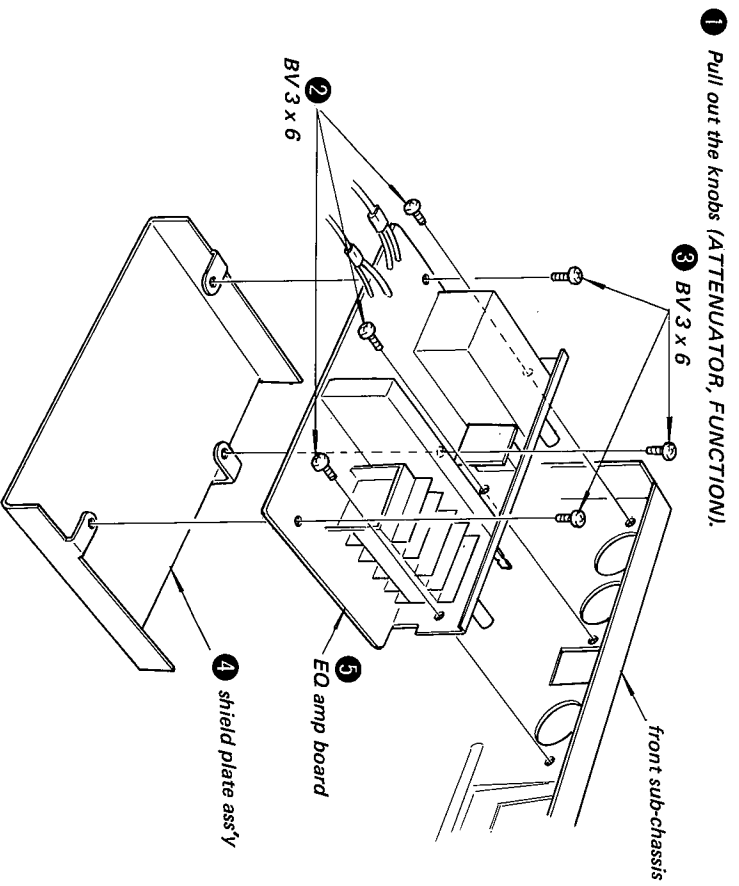
US model

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

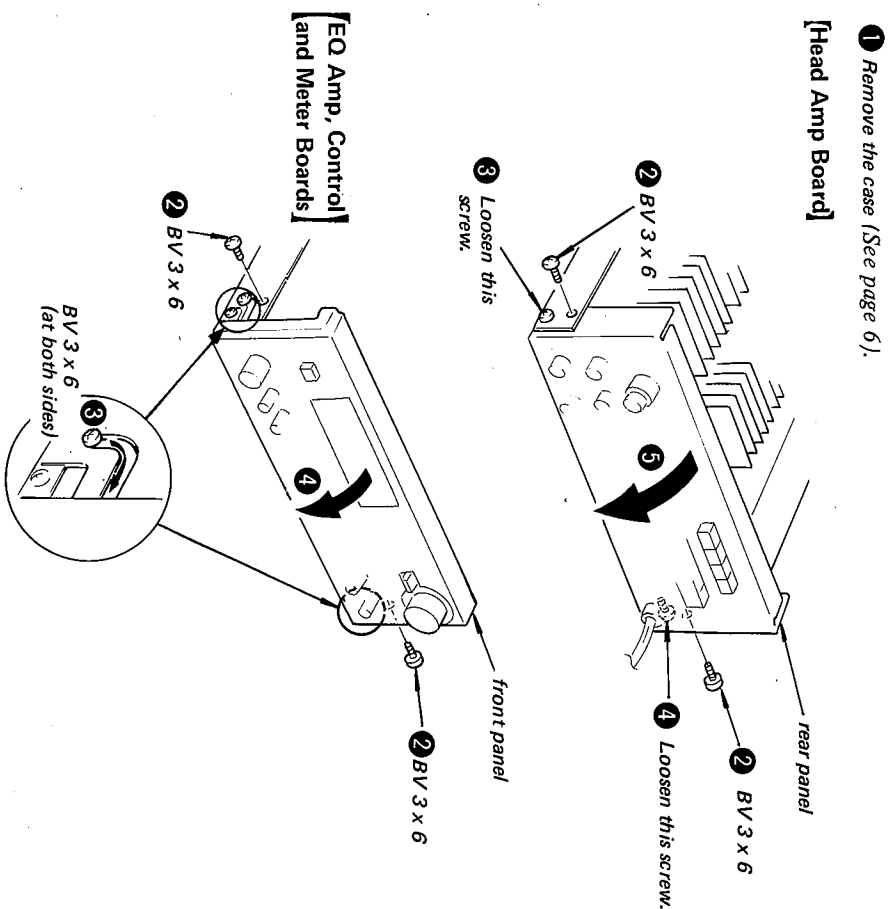
PULSE-LOCKED POWER SUPPLY BOARD REMOVAL



EQ AMP BOARD REMOVAL

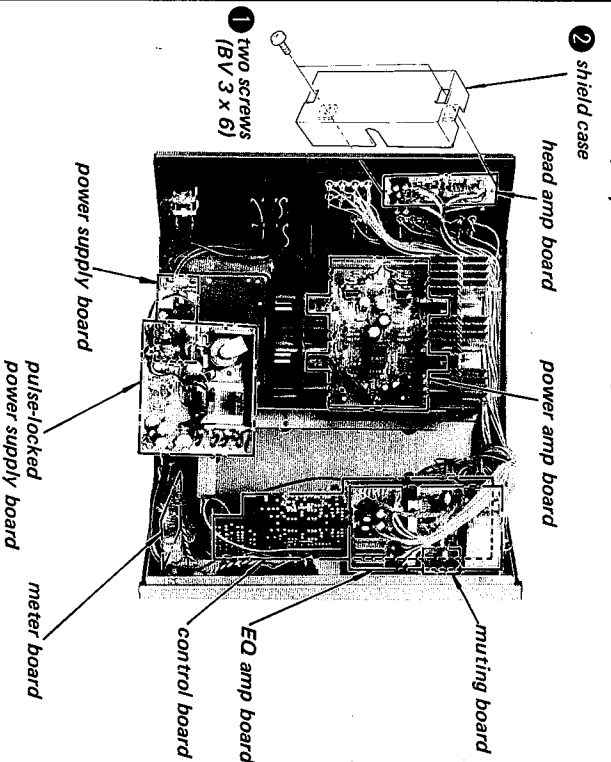


CIRCUIT BOARDS CHECKING AND REPAIRING

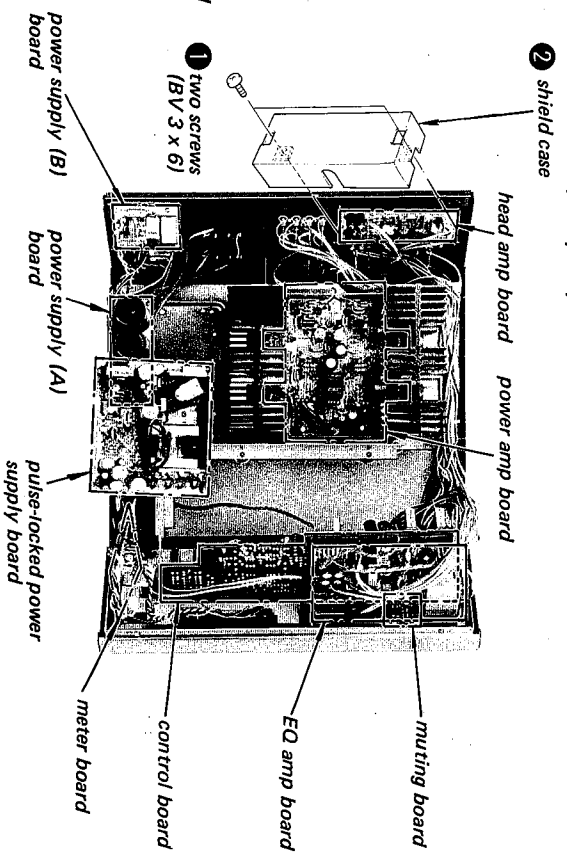


Each circuit board is located as shown below.

(US, Canadian model)



(AEP, UK, E model)

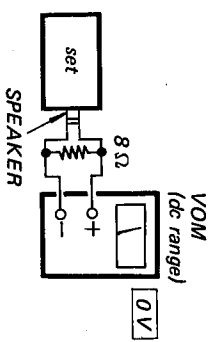


SECTION 3
ADJUSTMENTS

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.

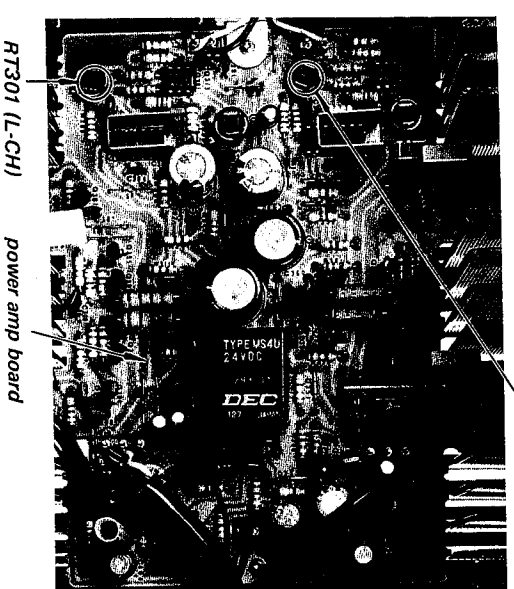
DC Balance Adjustment

Procedure:



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

Adjustment Location:

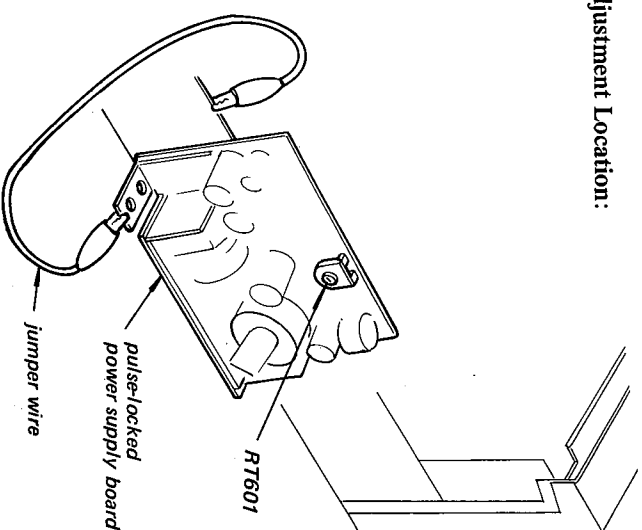


DC Voltage Adjustment

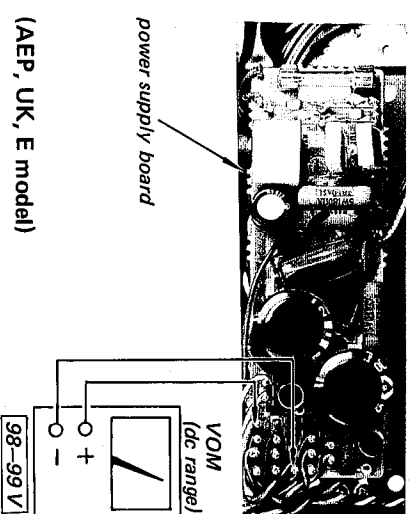
Procedure:

1. Connect a jumper wire.
2. Adjust RT601 for 98–99 V reading on the VOM.

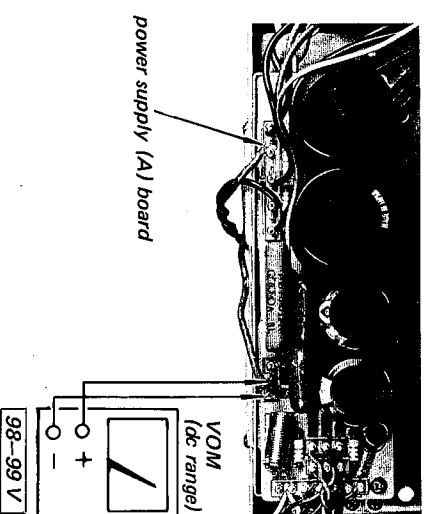
Adjustment Location:



(US, Canadian model)



(AEP, UK, E model)

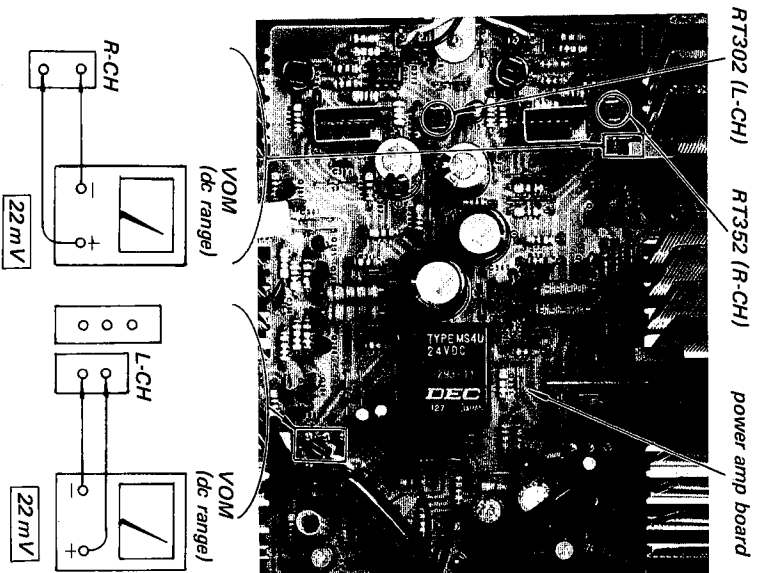


DC Bias Adjustment

Procedure:

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

Adjustment Location:



Meter Level Adjustment

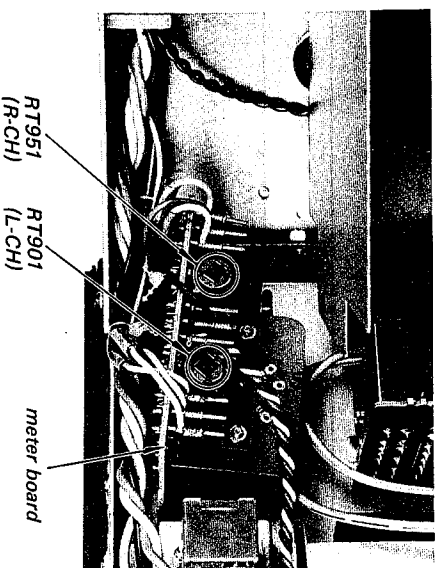
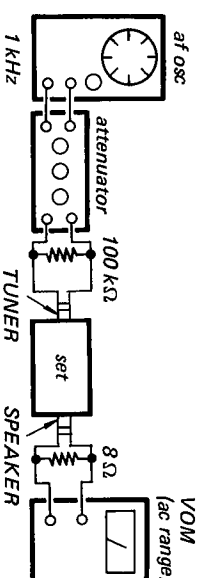
Setting:

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:



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 transformer 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
- ⑤ longer than ⑥
- ⑦ longer than ⑧

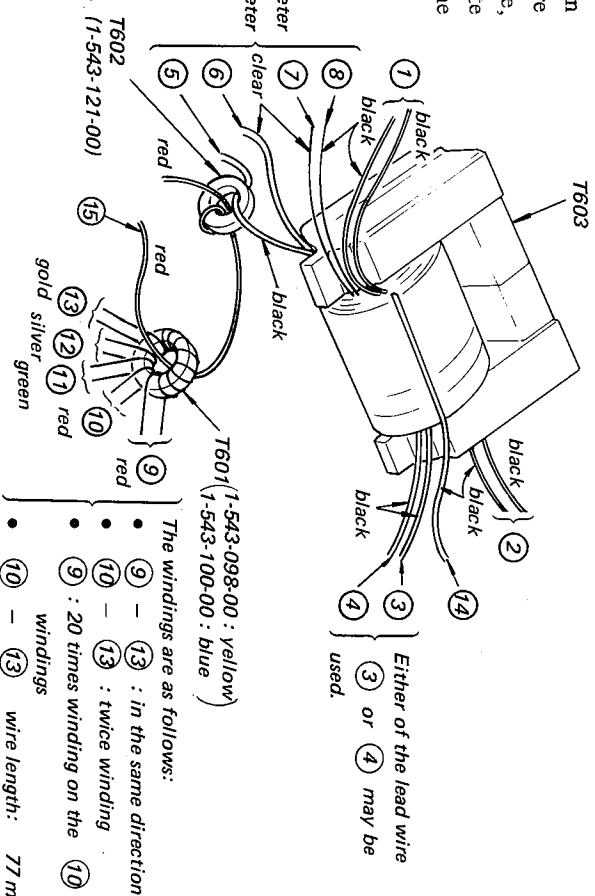


Fig. 1

- ⑨ wire length: 446 mm (17 1/2 inches) } (US, Canadian model)
- ⑨ diameter: 0.4 mm
- ⑨ wire length: 375 mm (14 3/4 inches) } (AEP, UK, E model)
- ⑨ diameter: 0.4 mm

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.

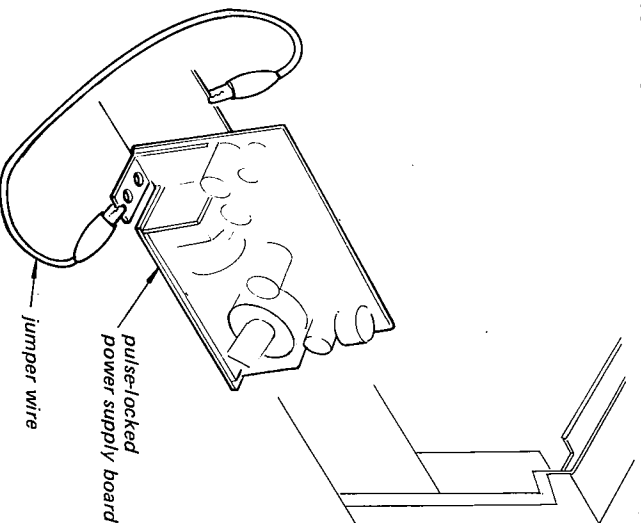
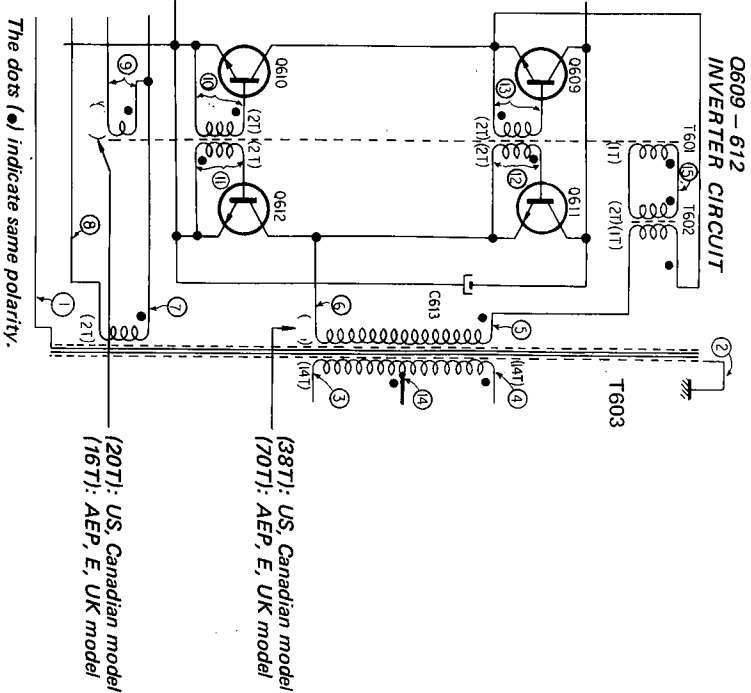


Fig. 2



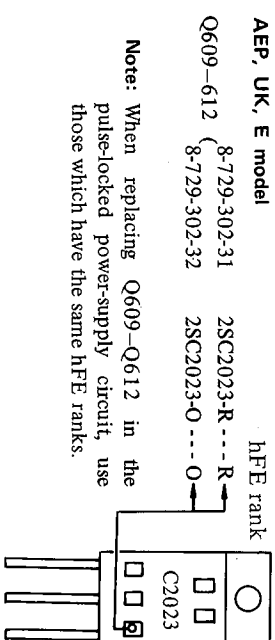
The dots (•) indicate same polarity.

3. INVERTER CIRCUIT TRANSISTOR REPLACEMENT (O609-612)

- 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 (O609-612).

* 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).



US, Canadian model
O609-612 8-729-308-72 25C1988D-O

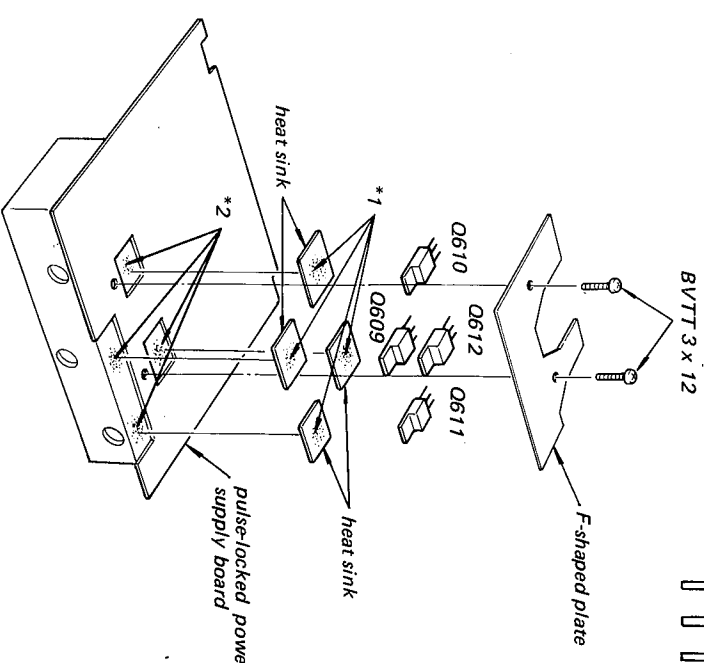
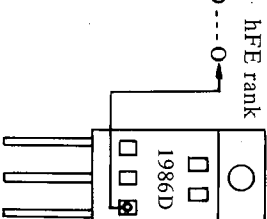


Fig. 3

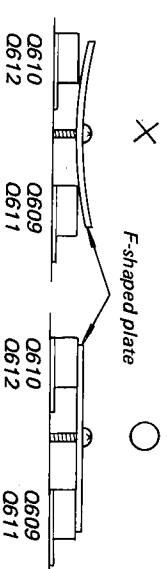
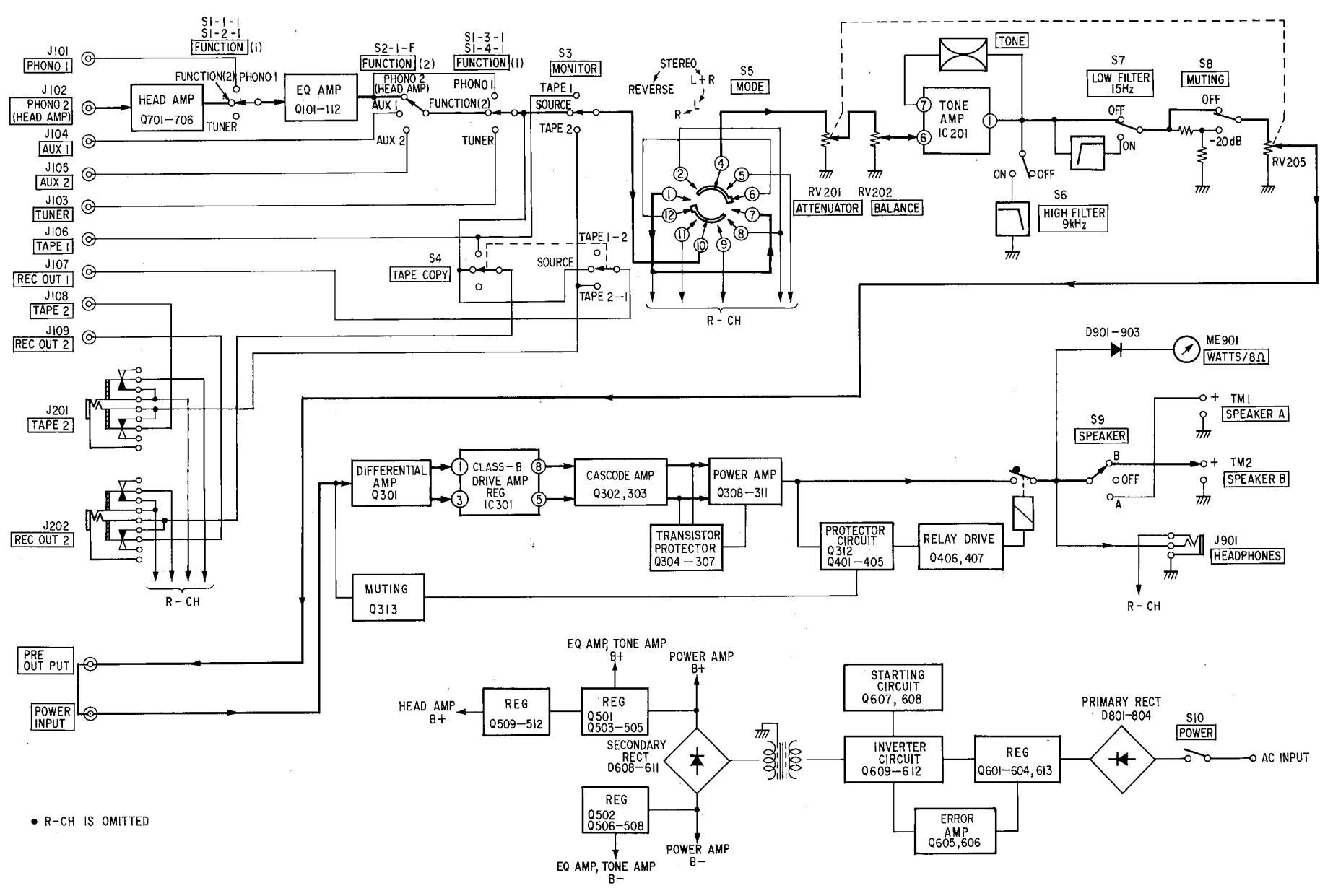


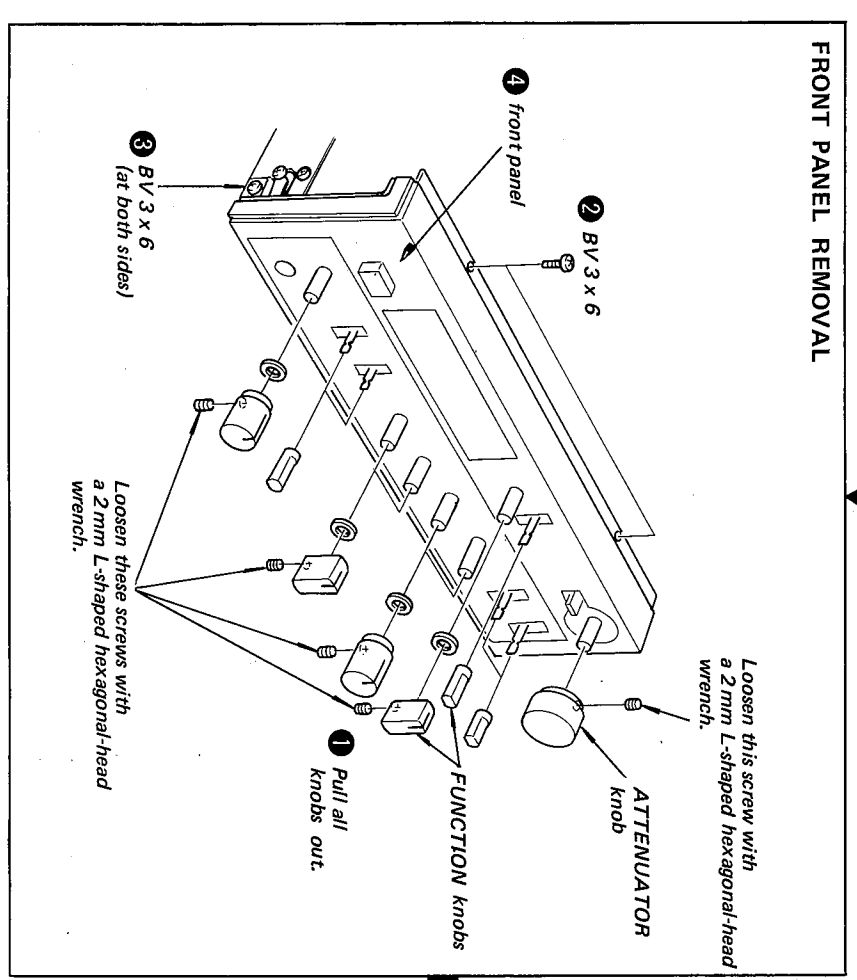
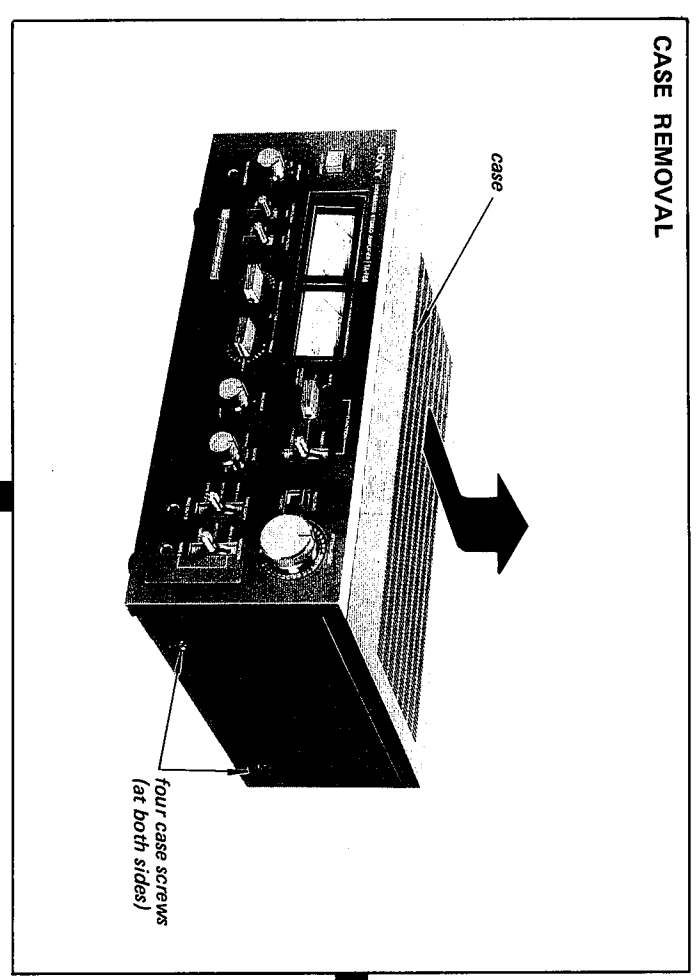
Fig. 4

SECTION 1
BLOCK DIAGRAM



• Follow the disassembly procedure in the numerical order given.

SECTION 2
DISASSEMBLY

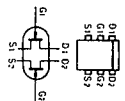


SECTION 4
DIAGRAMS

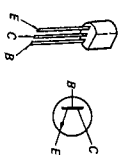
• Replacement Semiconductors

For replacement, use semiconductors except in ().

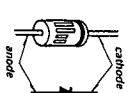
Q101, 151: 2SK97



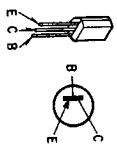
Q110, 160: 2SD667
Q510: 2SC1475 (2SC1670)



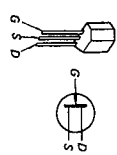
D102, 103: EOB01-26 (EOA01-26R)
D152, 153: EOB01-202
D201, 202: EOB01-21 (EOA01-21R)
D251, 252



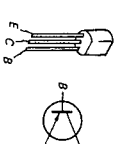
Q102, 103, 106, 108
Q152, 153, 156, 158
Q705, 706, 755, 756 } : 2SA872E (2SA872)



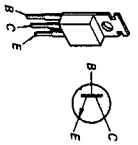
Q501, 502: 2SK42-4 (2SK42)



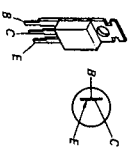
Q111, 161: 2SB647
Q506, 507: 2SA639 (2SA893)



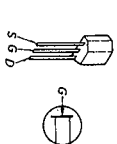
Q503: 2SC1061



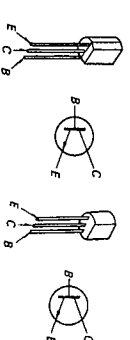
Q508: 2SA671



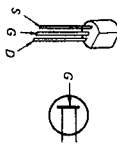
Q104, 154: 2SK23A-840 (blue) (2SK23A)



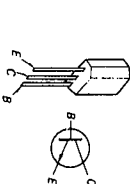
Q504, 505: 2SC1775F (2SC1890)
Q511, 512



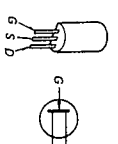
Q105, 155, 509: 2SK30A



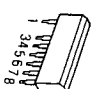
Q701-704: 2SC1637-1 (2SC1637)
Q751-754



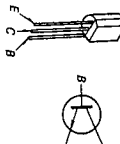
Q107, 112: 2SK43-4 (2SK43)
Q157, 162



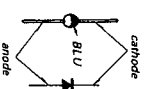
IC201, 251: HA1457



Q109, 159: 2SC1775E (2SC1775)

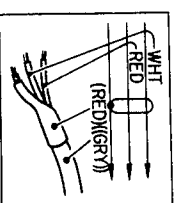


D101, 151: MV12N



Note:

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



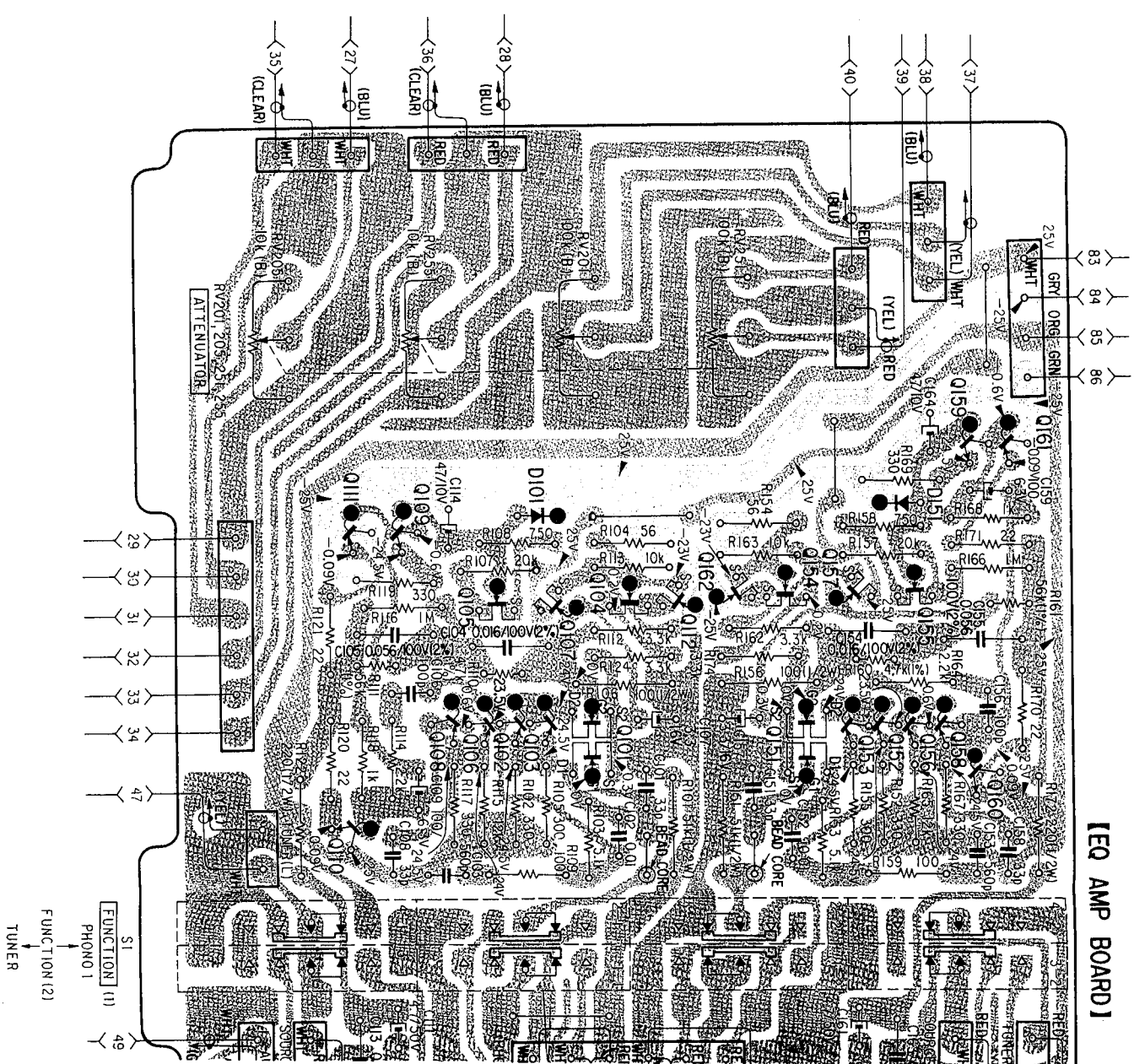
• — : parts extracted from the component side.

• — : B+ pattern

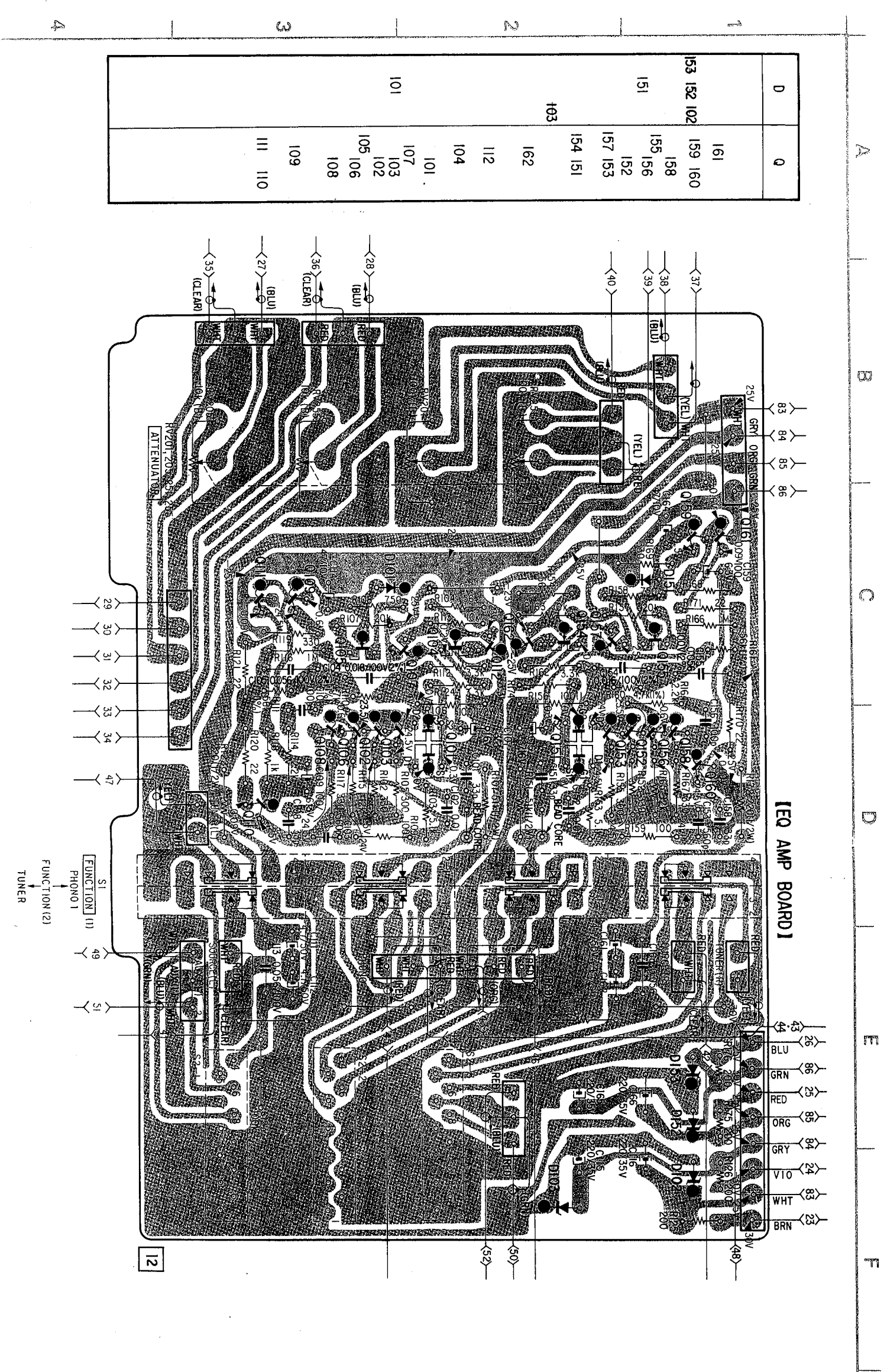
• — : B- pattern

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

D	Q
153 152 102	161 159 160
151	158 155 156
	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 —



orient side.
the jacket.

26R)
21R)

4.2. PREAMP SECTION MOUNTING DIAGRAM

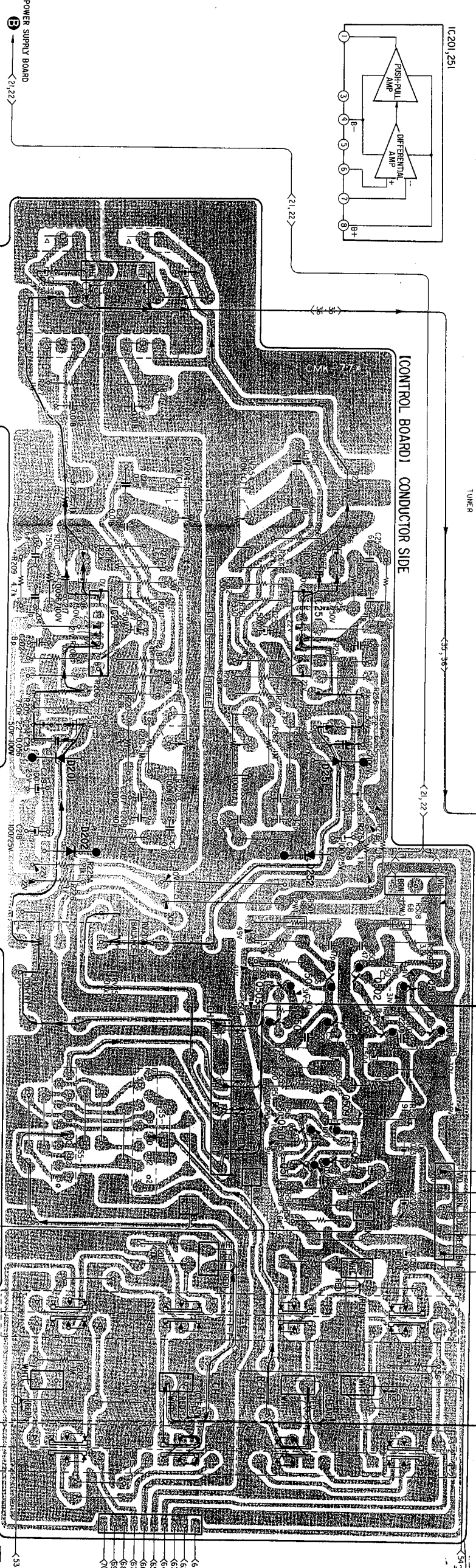
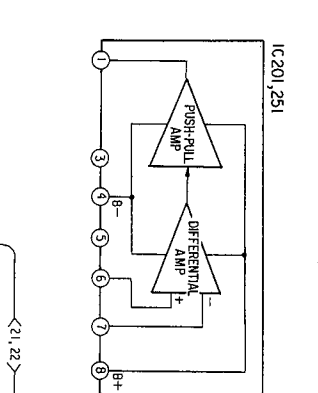
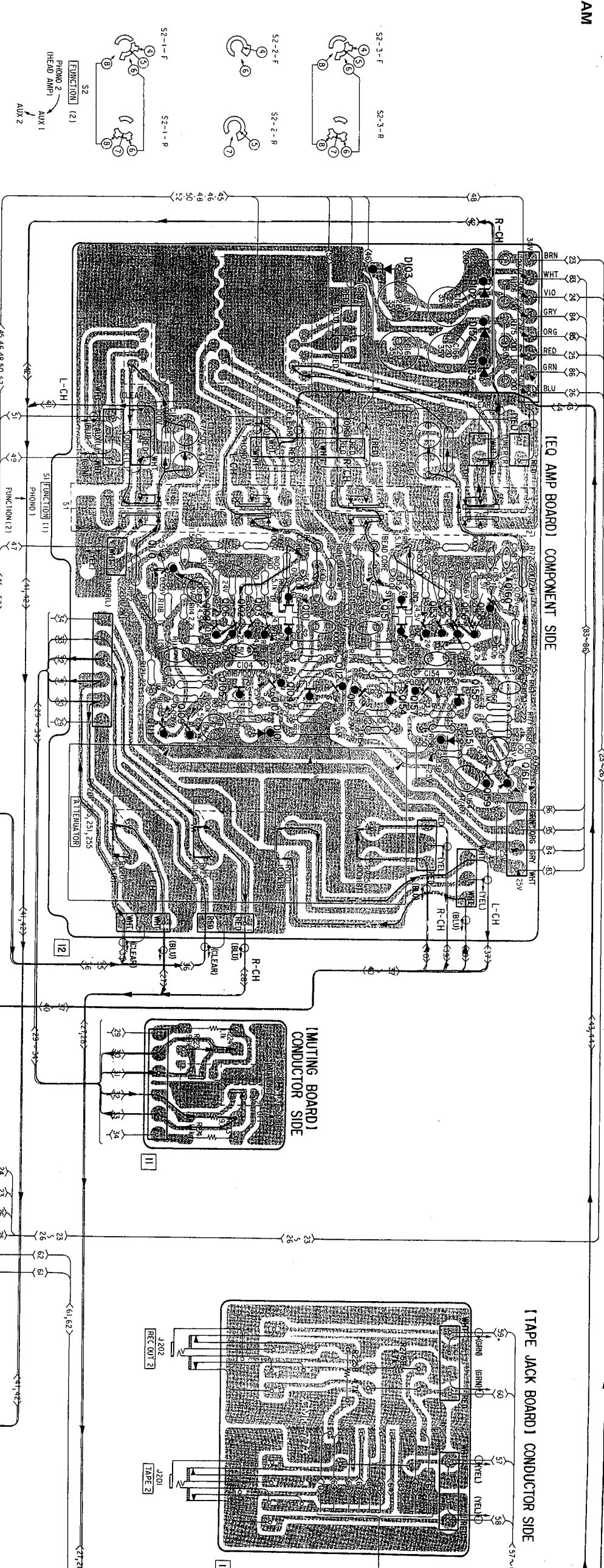
POWER AMP BOARD (A)

(C) (D)

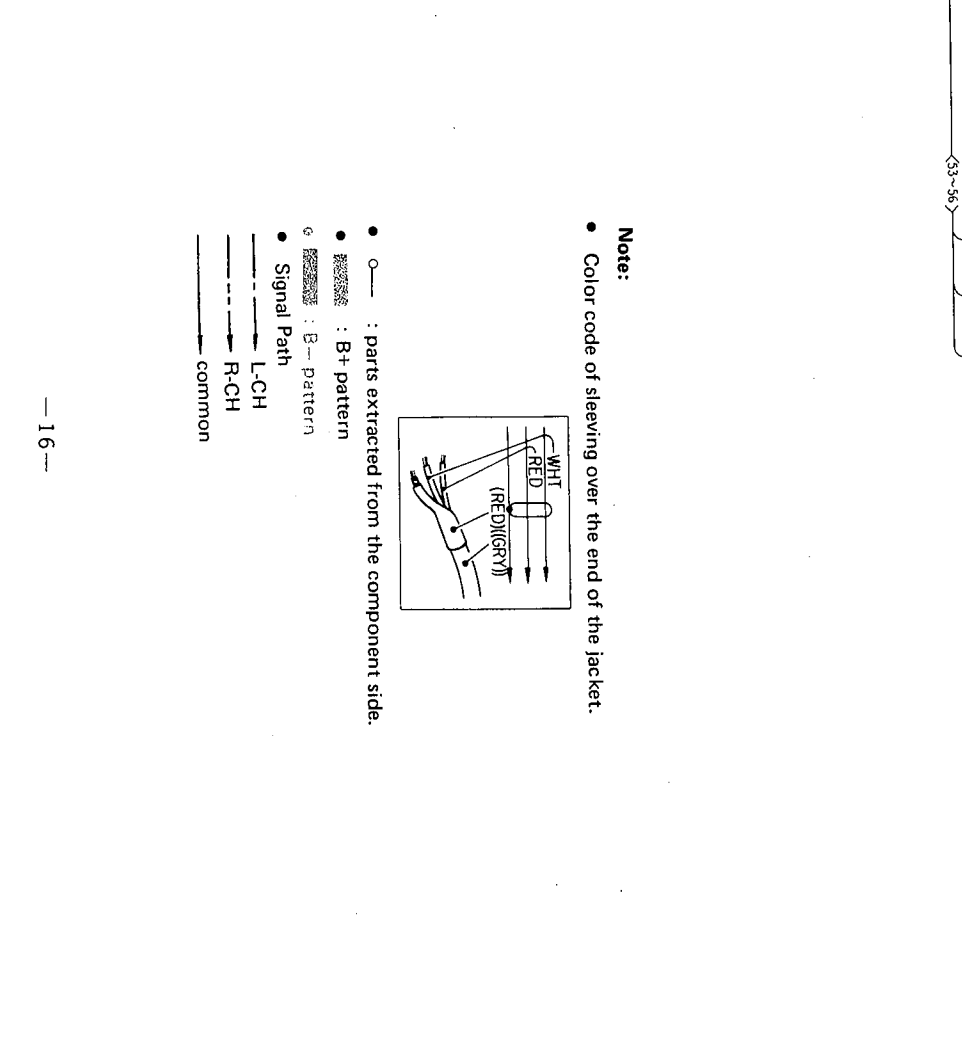
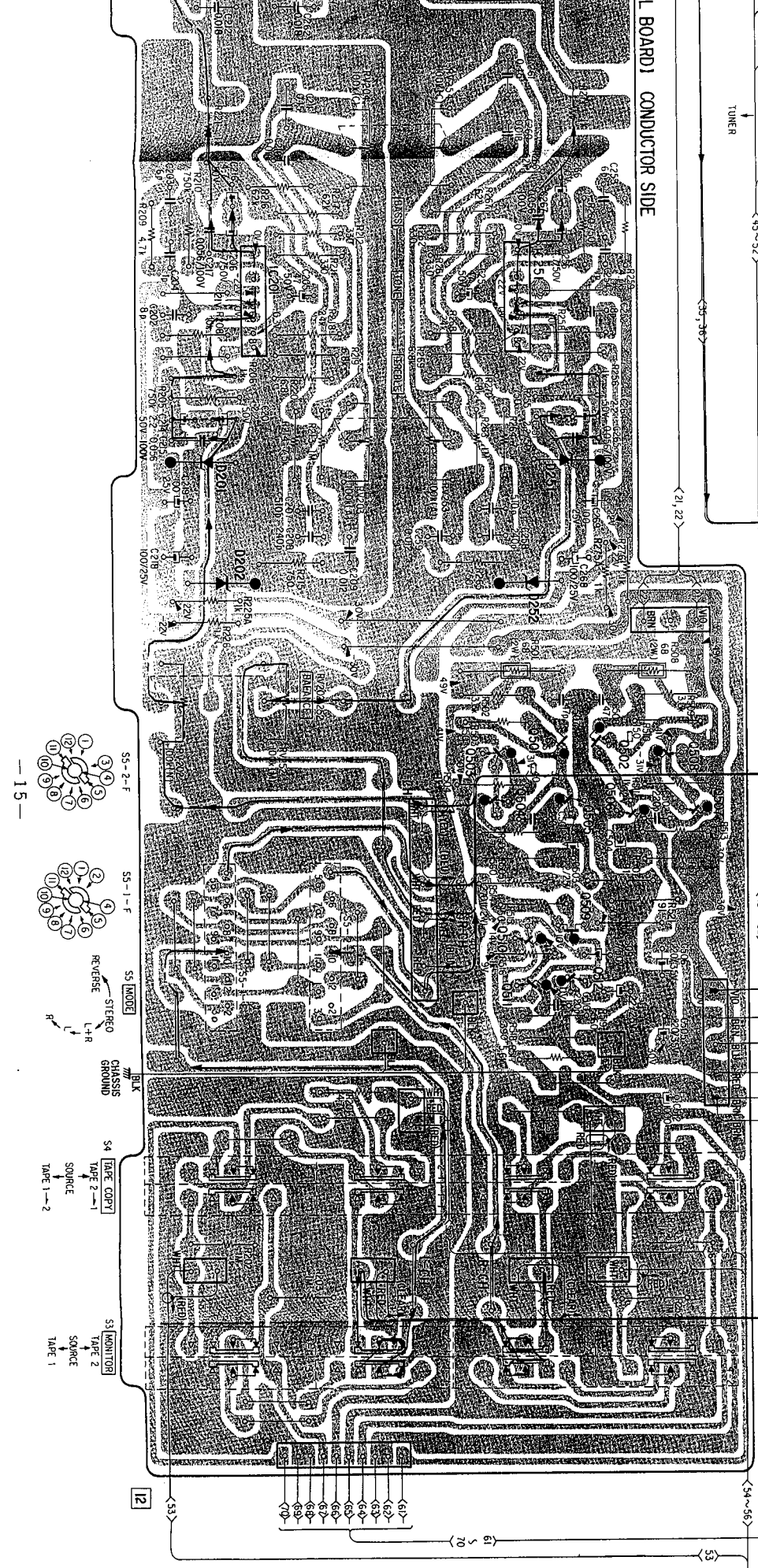
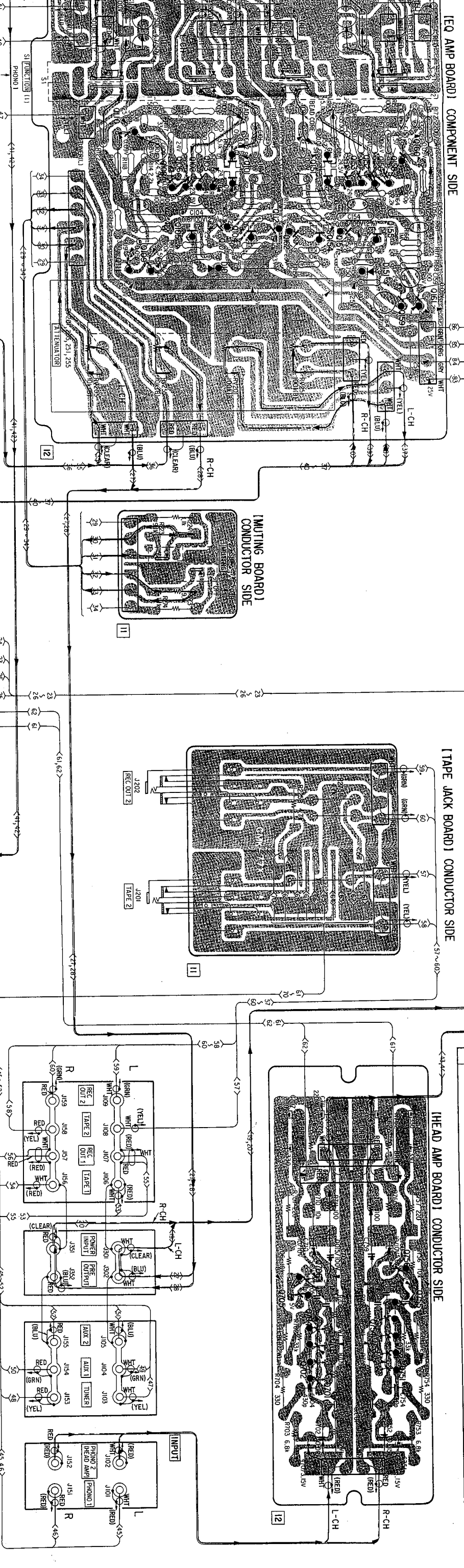
(E)

(F)

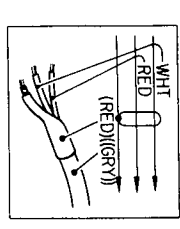
Q, IC	D
161	102
160	159
158	152
155	153
152	151
153	157
151	154
162	103
112	101
104	101
101	101
103	107
102	105
106	108
108	109
110	111
507	252
508	251
506	251
502	252
505	509
501	512
IC251	510, 511
503	504
IC201	202
0, IC	201
	D



756 755 754 753 752 751
706 705 704 703 702 701

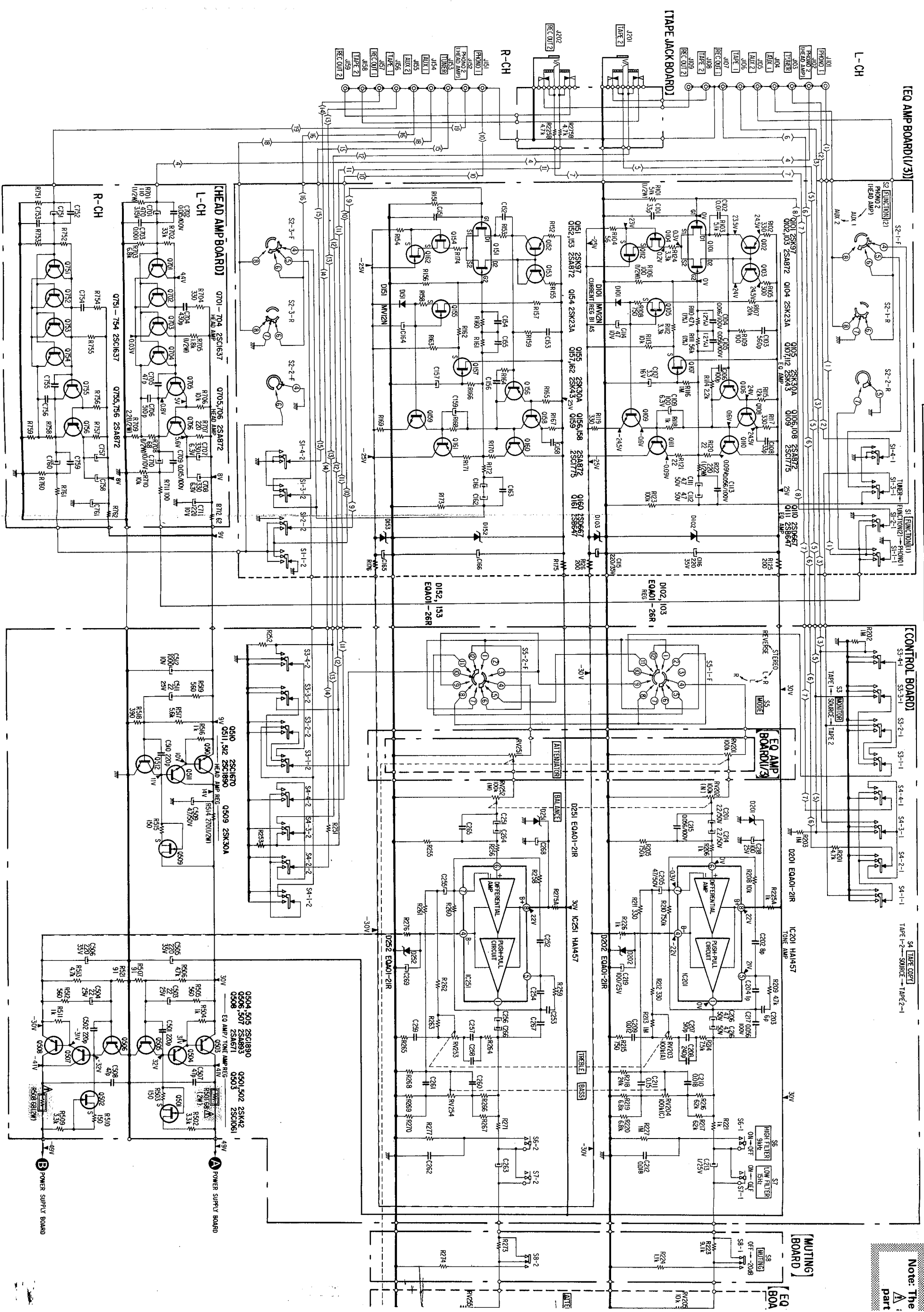


Note:
• Color code of sleeving over the end of the jacker.

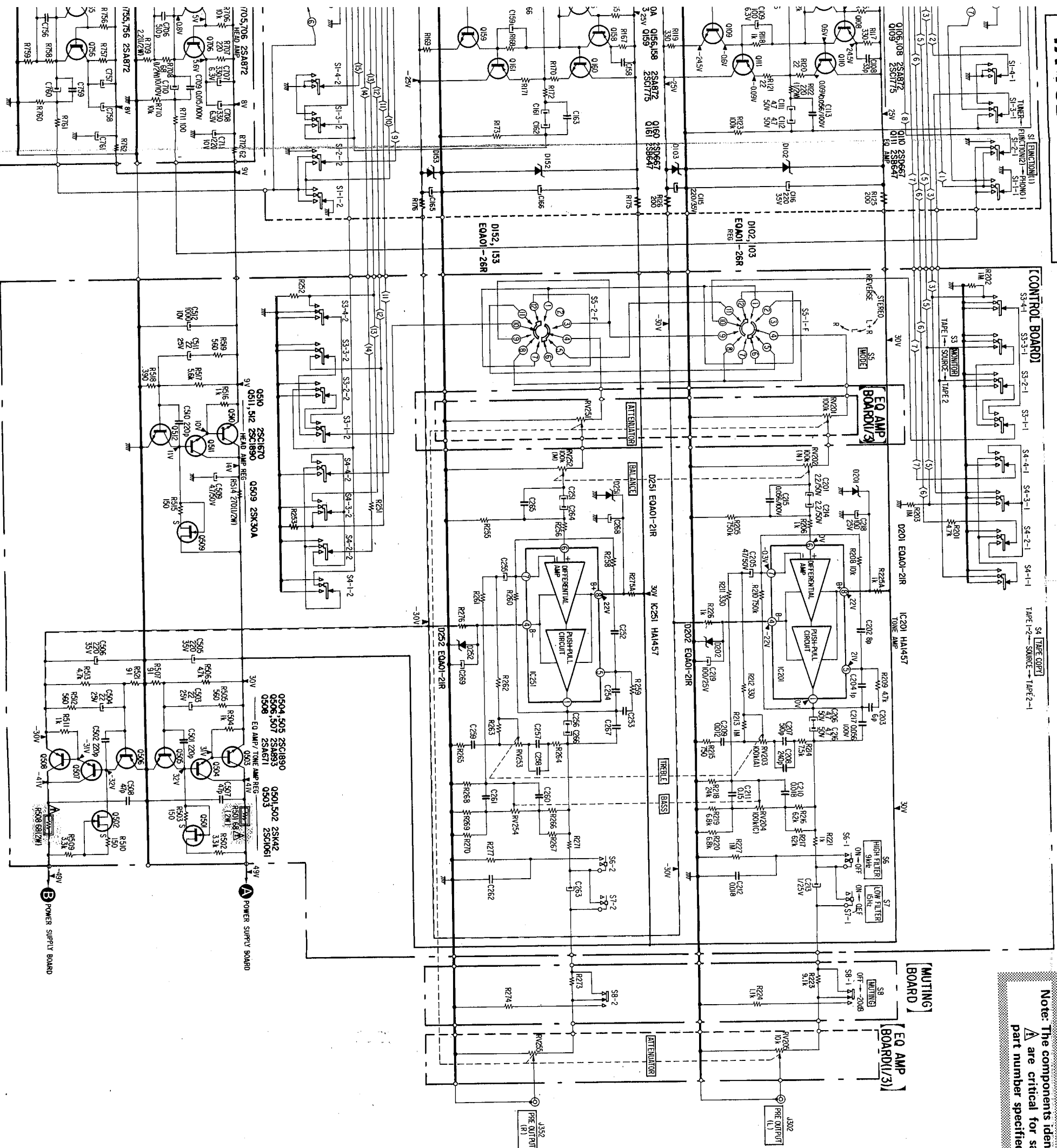


- : parts extracted from the component side.
- : B+ pattern
- ◐ : B- pattern
- ◑ : Signal Path
- L-CH
- R-CH
- common

TA-F6B TA-F6B



Note: The part



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 spécifique.

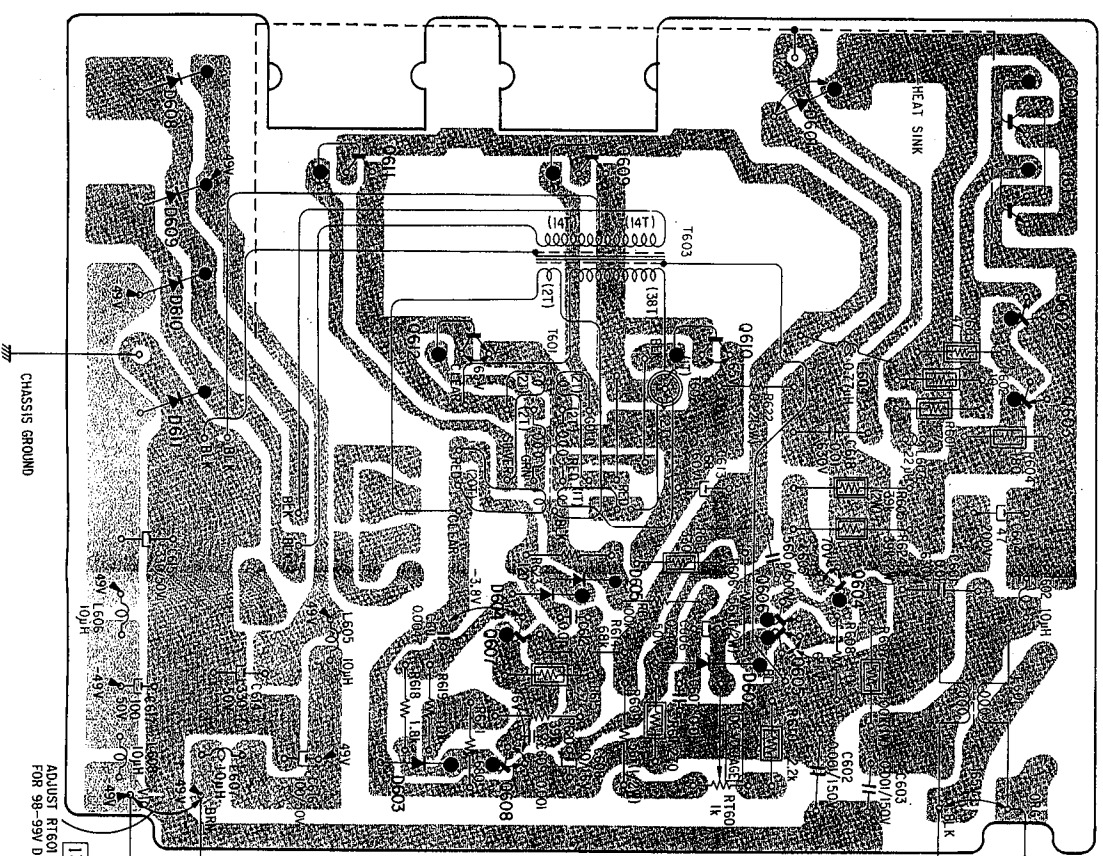
- Note:
- Components for right channel have same values as for left channel. Reference numbers are coded from 151, 251 or 751.
 - All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F} \times 50$ WV or less are not indicated except for electrolytics.
 - All resistors are in ohms, $\frac{1}{2}\text{W}$ 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.
 - \square : nonflammable resistor
 - \square : 1% or 2% indicates component tolerance.
 - \square : panel designation
 - \square : B+ bus.
 - \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
S1-1, 2	FUNCTION (1)	FUNCTION (2)
S1-2, 1, 2	FUNCTION (1)	FUNCTION (2)
S1-3, 1, 2	FUNCTION (1)	FUNCTION (2)
S1-4, 1, 2	FUNCTION (1)	FUNCTION (2)
S2-1-F, R	FUNCTION (2)	PHONO 2 (HEAD AMP)
S2-2-F, R	FUNCTION (2)	PHONO 2 (HEAD AMP)
S2-3-F, R	FUNCTION (2)	PHONO 2 (HEAD AMP)
S3-1-1, 2	MONITOR	SOURCE
S3-2-1, 2	MONITOR	SOURCE
S3-3-1, 2	MONITOR	SOURCE
S3-4-1, 2	MONITOR	SOURCE
S4-1-1, 2	TAPE COPY	SOURCE
S4-2-1, 2	TAPE COPY	SOURCE
S4-3-1, 2	TAPE COPY	SOURCE
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

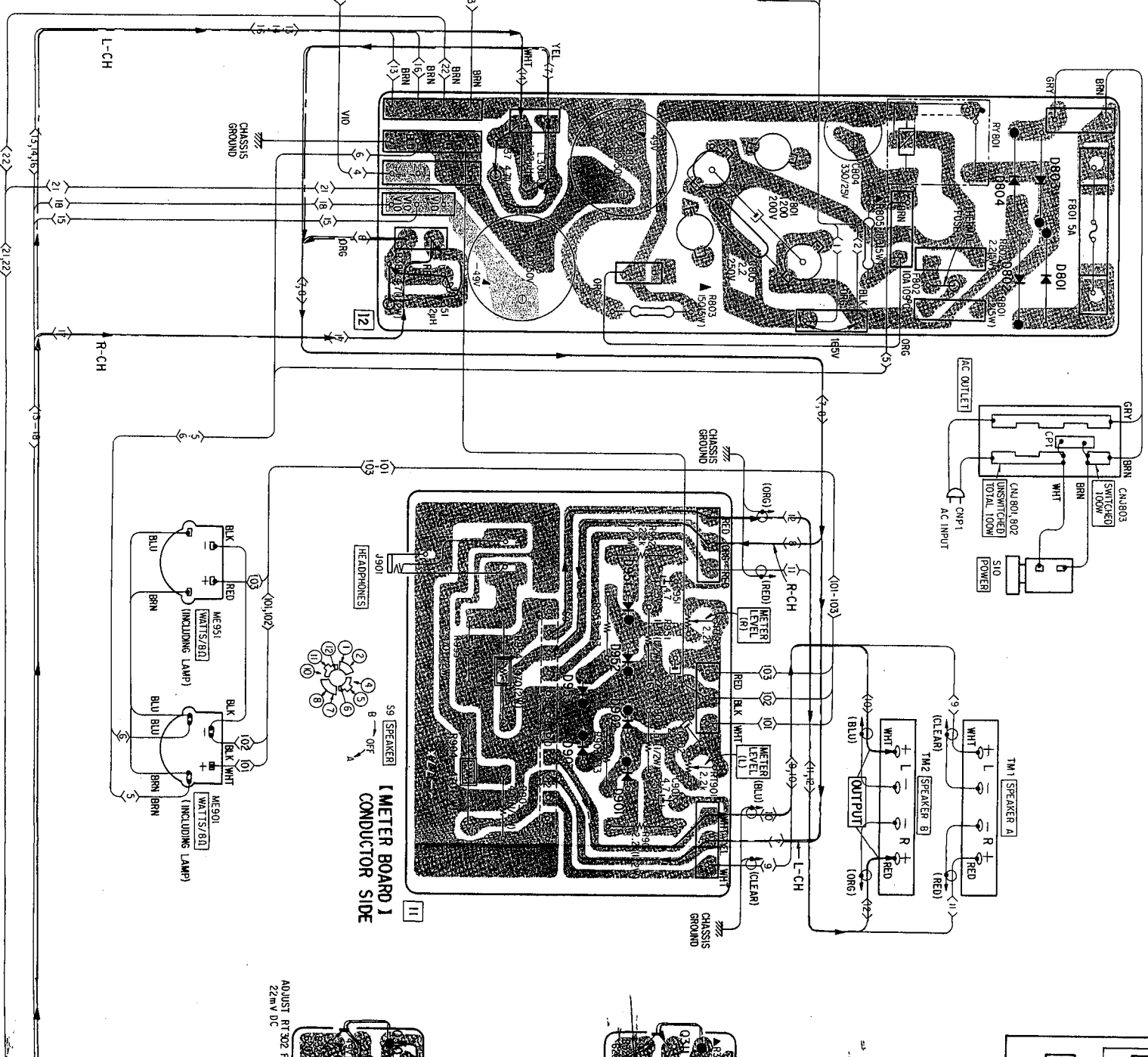
4.4. POWER AMP SECTION MOUNTING DIAGRAM
(US, Canadian model)

0	601	613	602	603	604	605	608	311
IC	609	610	612	605	606	607	608	310
1	601	609	610	611	605	604	602	603
2	608	609	610	611	605	604	602	603
3								
4								
5								

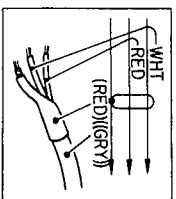
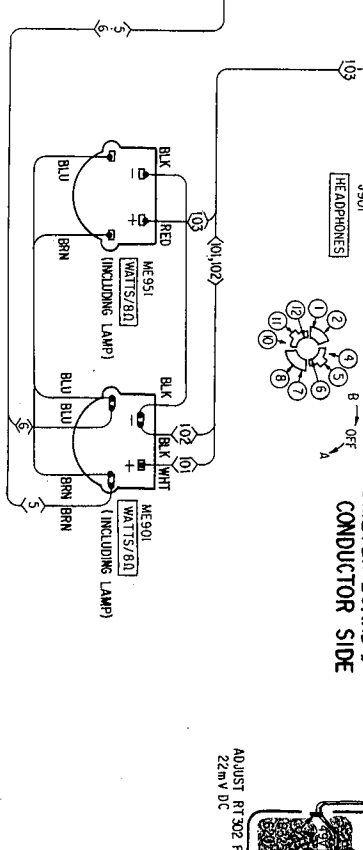
【PULSE-LOCKED POWER SUPPLY BOARD】
CONDUCTOR SIDE



【POWER SUPPLY BOARD】 COMPONENT SIDE



【METER BOARD 1】
CONDUCTOR SIDE



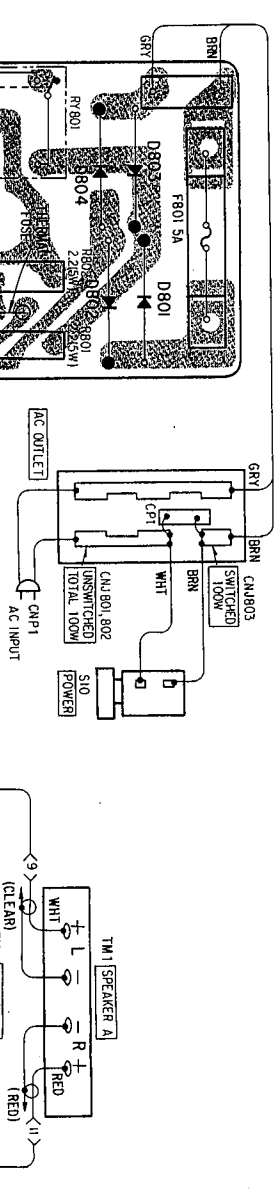
Note:
• Color code of sleeving over the end of the jacket.

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

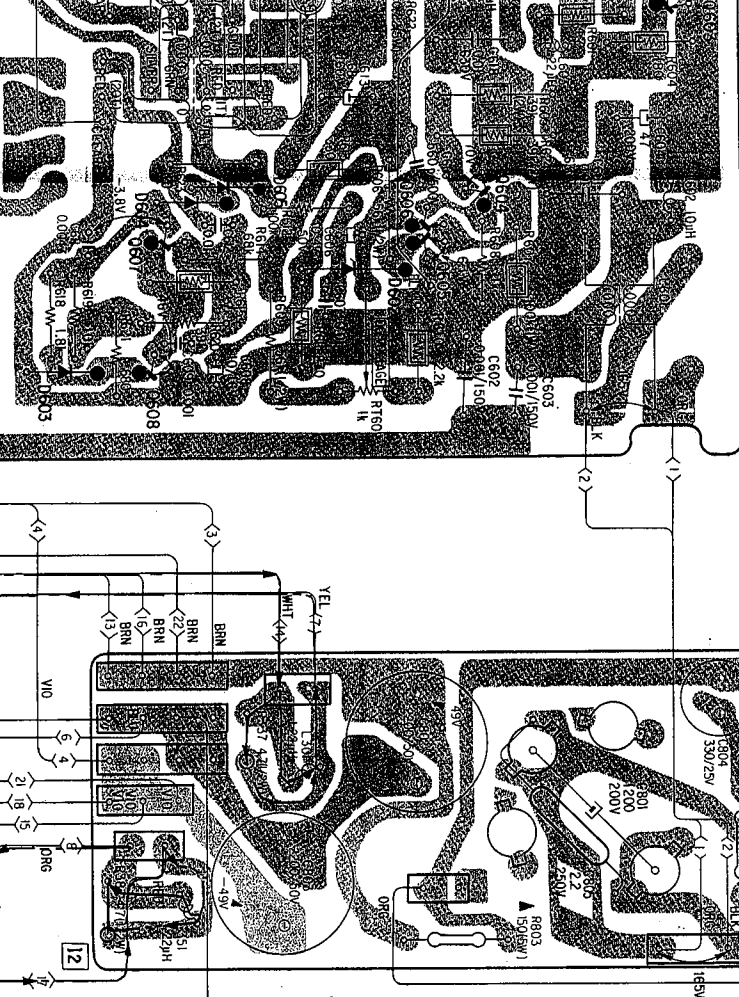
TA-F6B TA-F6B

604	606	605	608	605	602	603	803	804	801	802	951	952	902	901	953	903	310	306	307	308	309	308	307	306	305	304	303	302	301	301	304	302	355	354	351	353	352	351	359	357	363	361	0										
805	807	808	803	804	801	951	803	804	802	951	952	902	901	953	903	310	306	307	308	309	308	307	306	305	304	303	302	301	301	304	302	355	354	351	353	352	351	359	357	363	361	0											

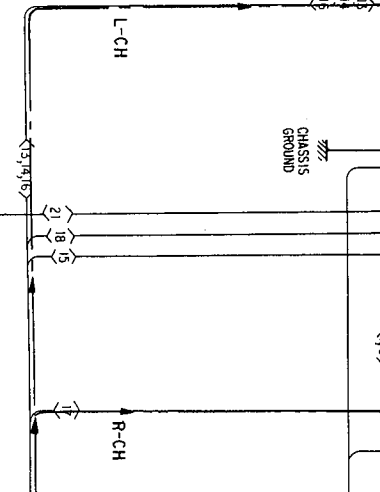
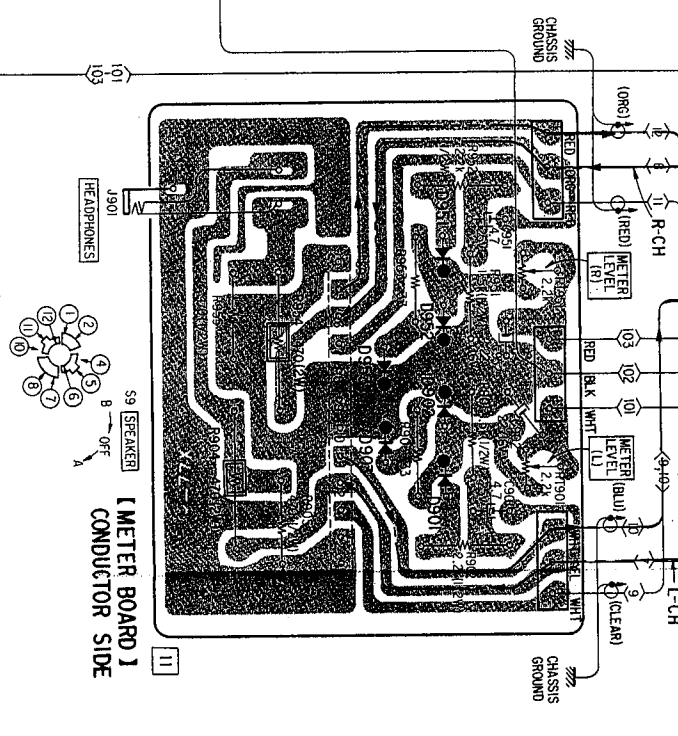
[POWER SUPPLY BOARD] COMPONENT SIDE



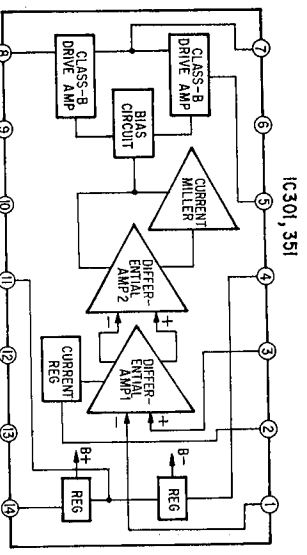
BOARD]



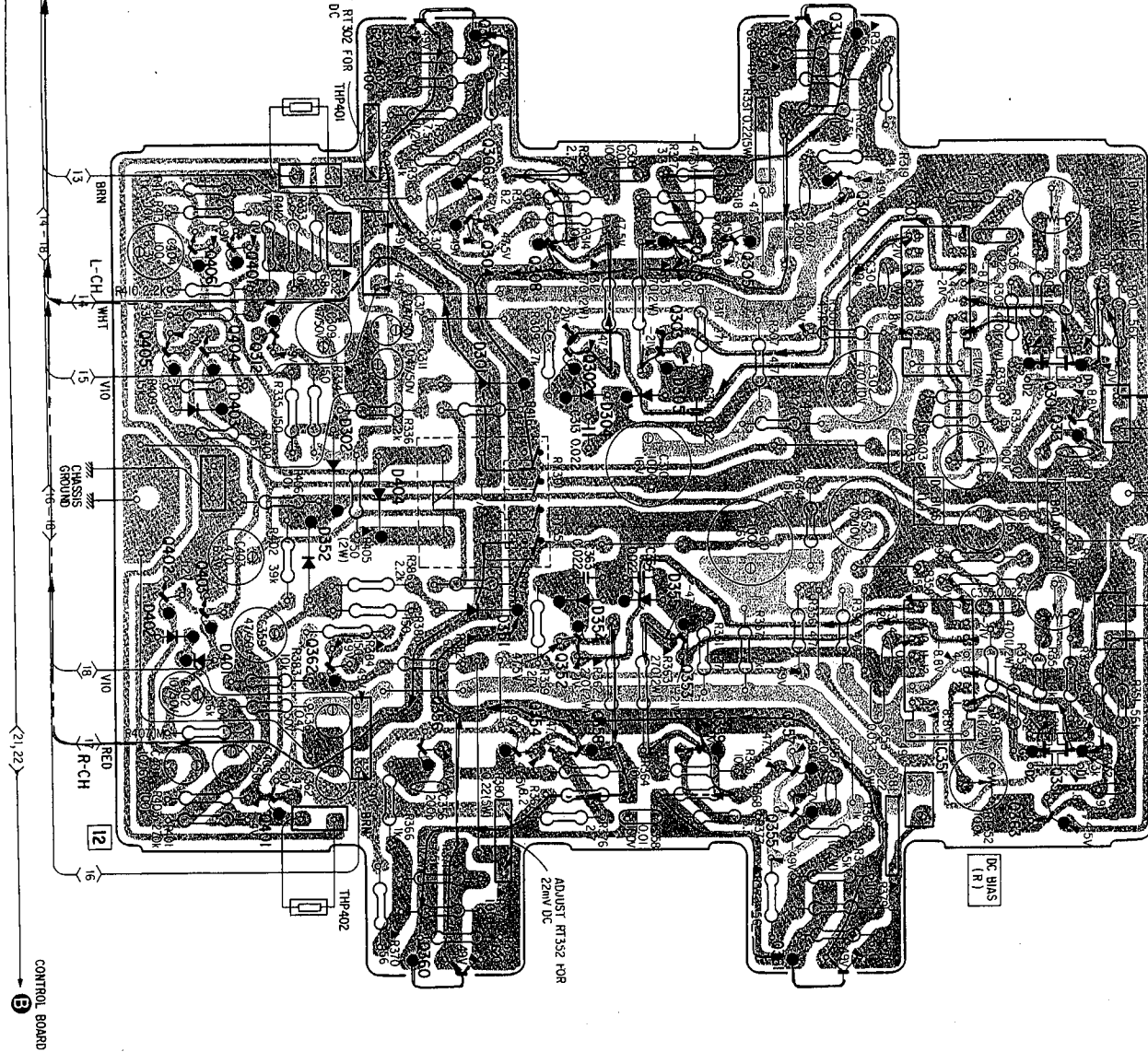
[METER BOARD] CONDUCTOR SIDE

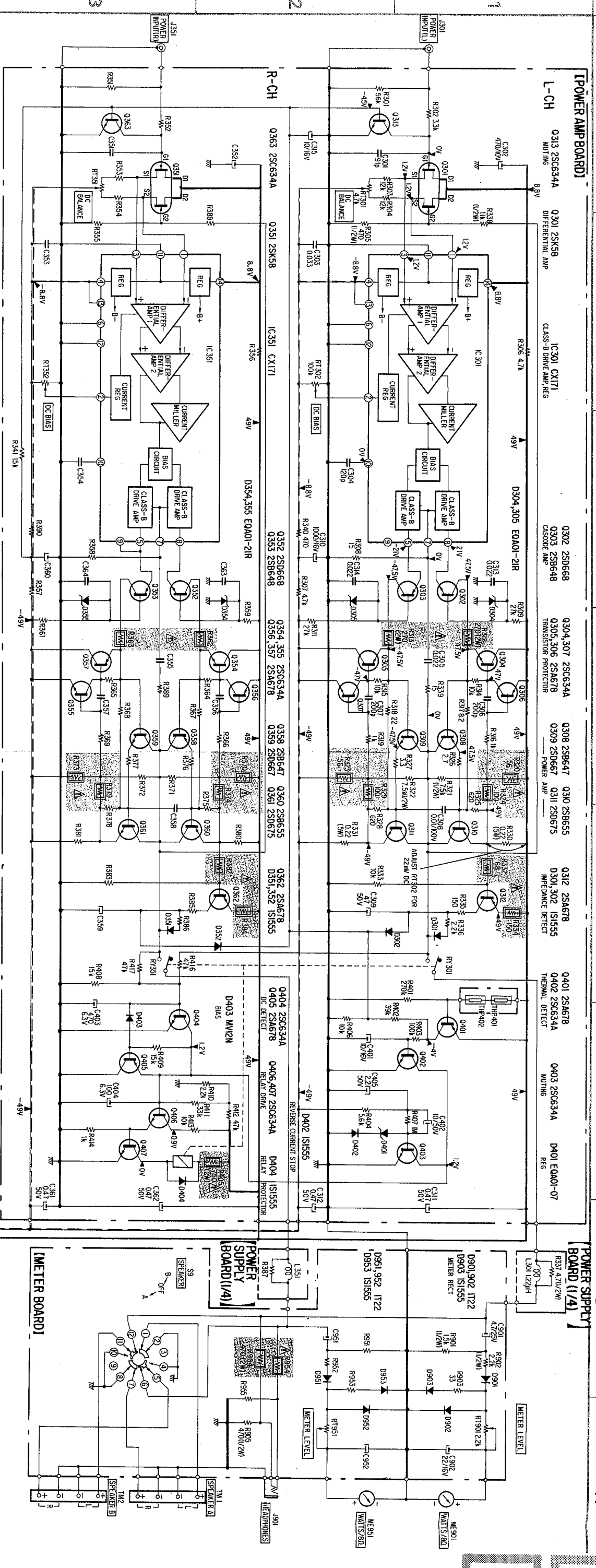


[POWER AMP BOARD] COMPONENT SIDE



BOARD]





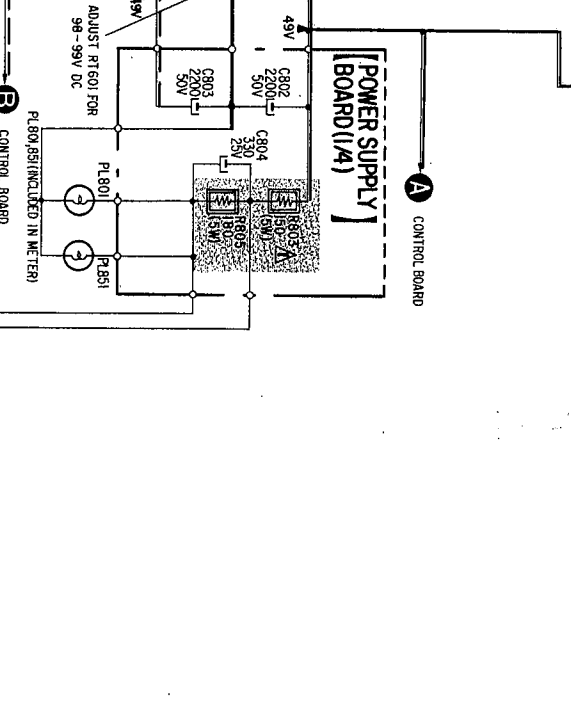
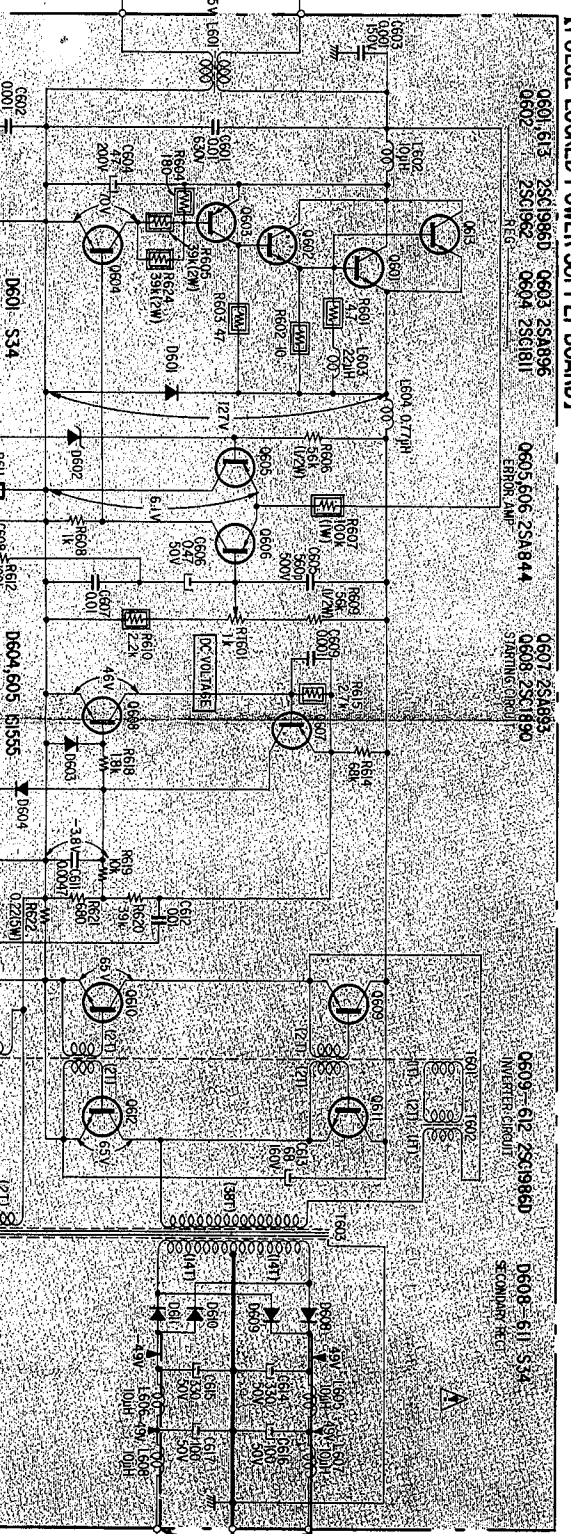
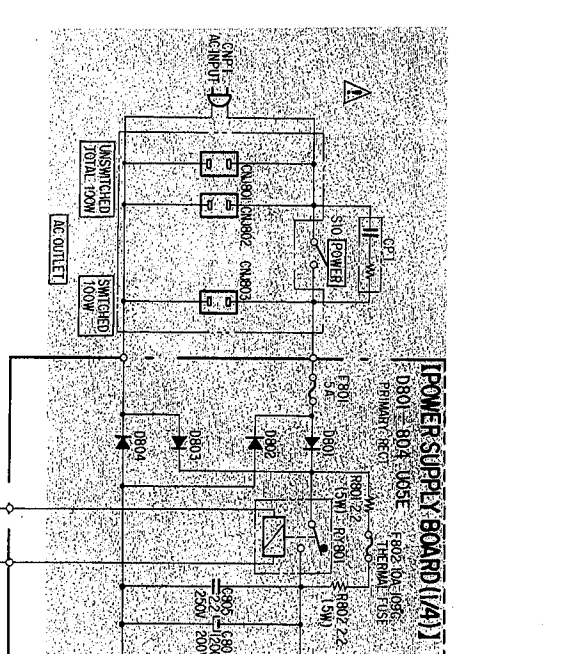
Note: The part

Note: Les man. rem. spéc

- Compi channe
- All cat 50 WV
- All res K2 = 1
- All va curve 1

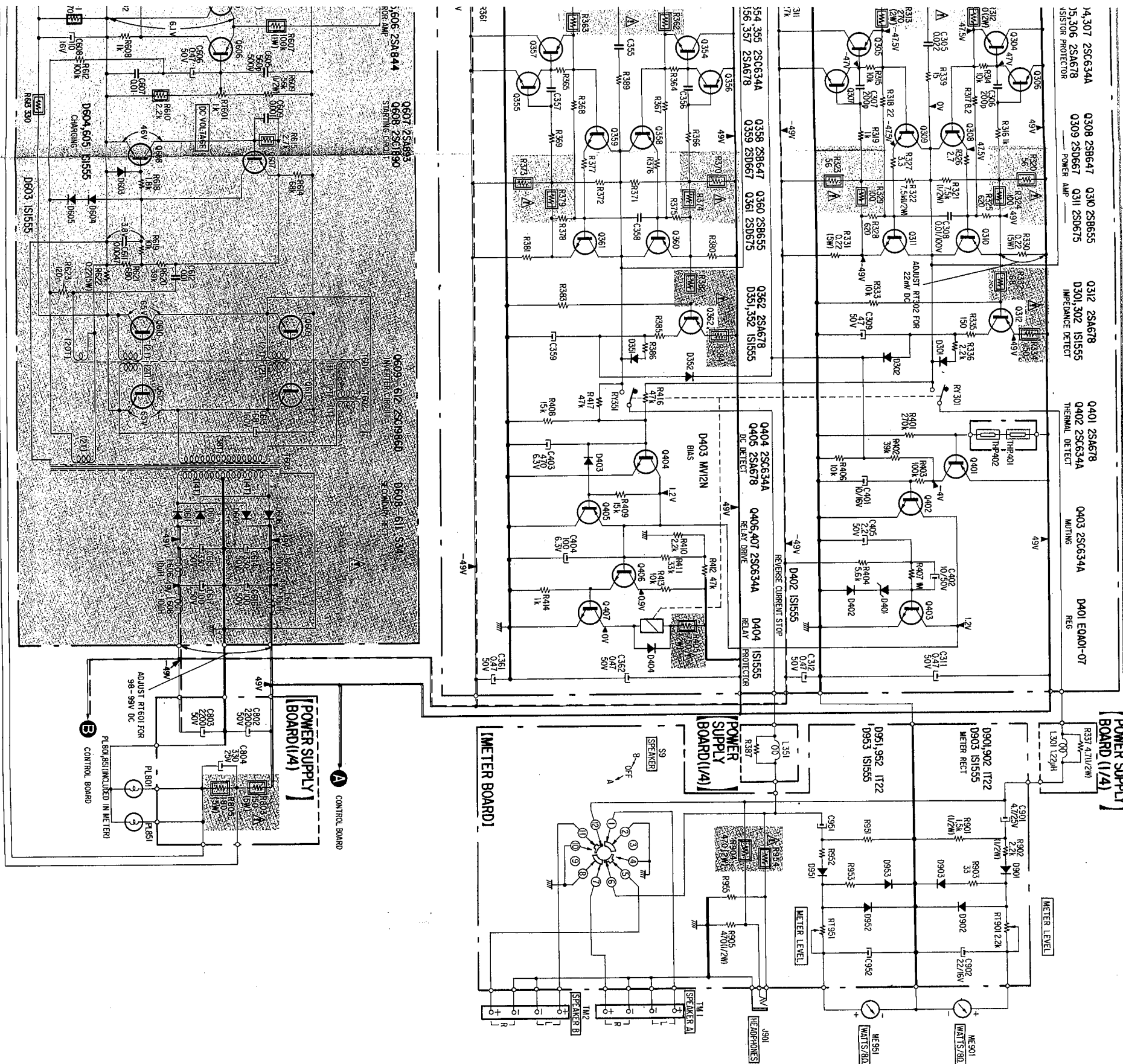
- Voltak noyed
- Readif. VOM
- Voltak tolera

- Switch
- Re



Note: Les man. rem. spéc

Note: The part



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 spécifique.

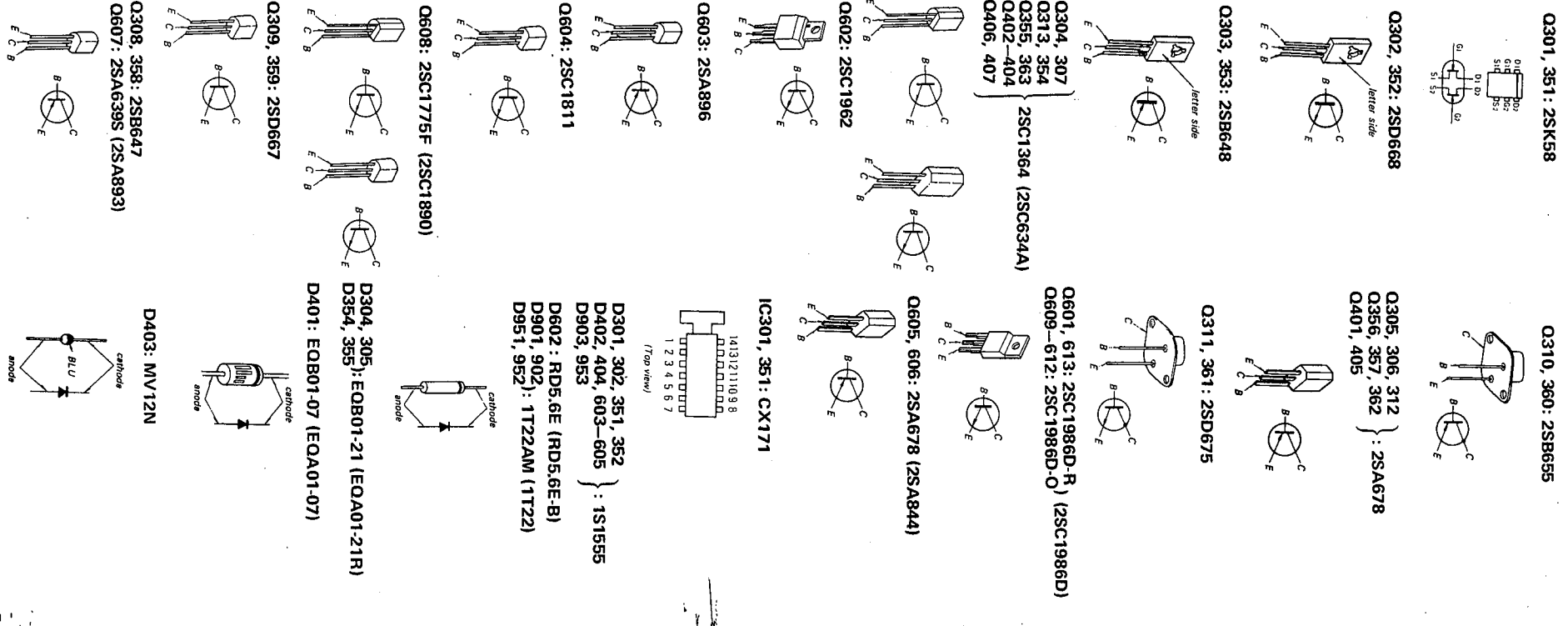
Note:

- 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. $\text{pF} = \mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{2}$ 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.
- \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 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.

Ref. No.	Switch	Position
S9	SPEAKER	B
S10	POWER	OFF

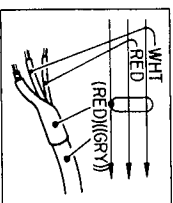
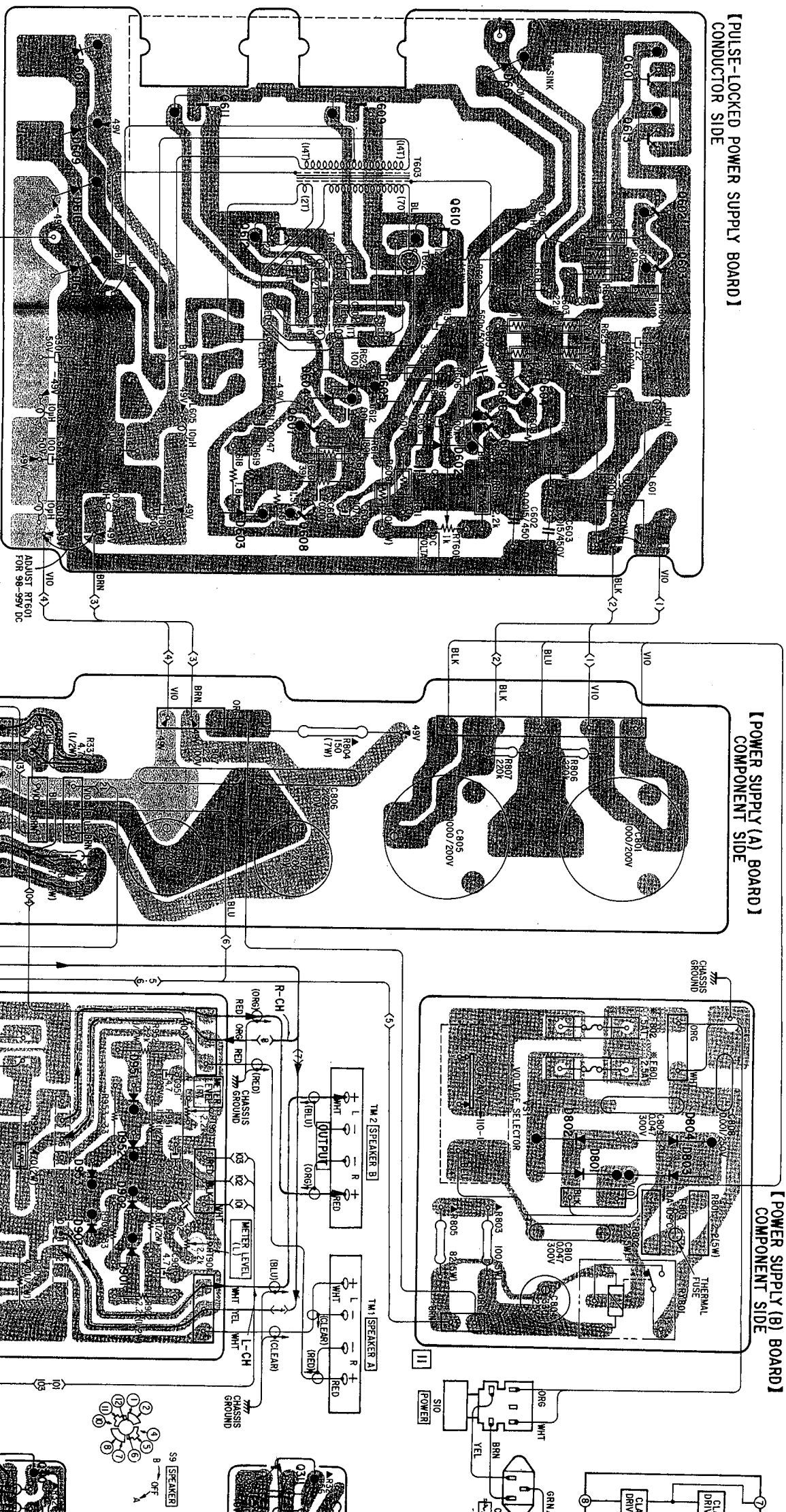
Replacement Semiconductors

For replacement, use semiconductors except in ().



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

	A			B			C			D		
Q	601	613	602	610	603	604	606	605				
IC	609	611	612			607			608			
D	601	609	610	611		605	804	602	603			
							951	952	953	804	803	
										802	801	
										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.

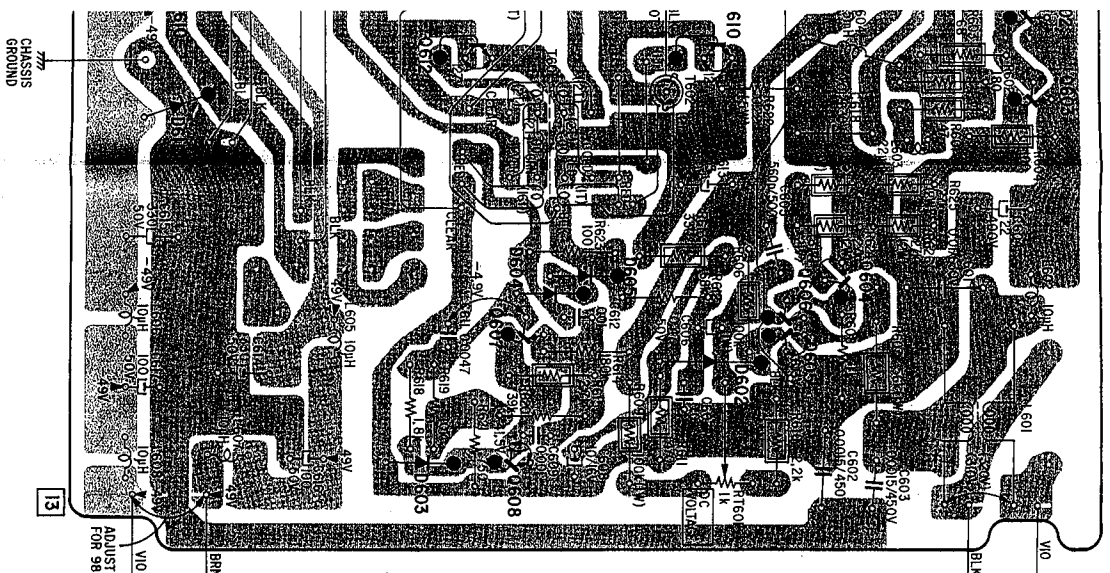
※

- F801 2.5AT/AEP MODEL: UP TO SERIAL No. 501, 150
- F802 5AT UK MODEL: UP TO SERIAL No. 600, 050
- F801 3.15AT/AEP MODEL: UP TO SERIAL No. 400, 100
- F802 6.5AT UK MODEL: SERIAL No. 501, 151 AND LATER
- E MODEL: SERIAL No. 600, 051 AND LATER

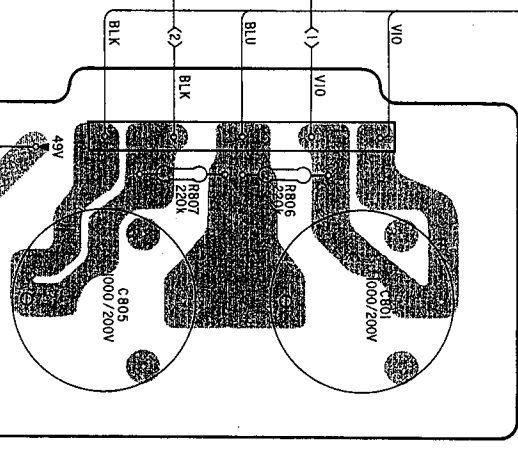
TA-F6B TA-F6B

12	603	604	606	605	608	804	803	311	307	309	308	303	301	313	353	351	357	363	0
610	612	607	608	603	802	801	902	903	310	306	407	312	404	405	403	302	352	358	361
					951	952	953	305	304	304	403	302	352	355	354	354	354	354	360
																			IC
																			D

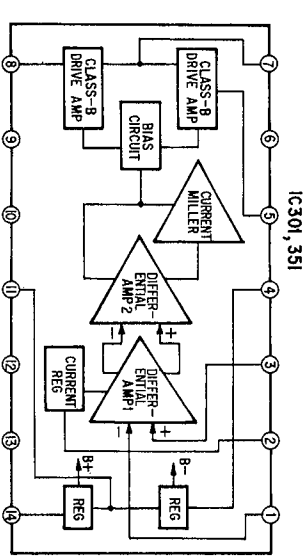
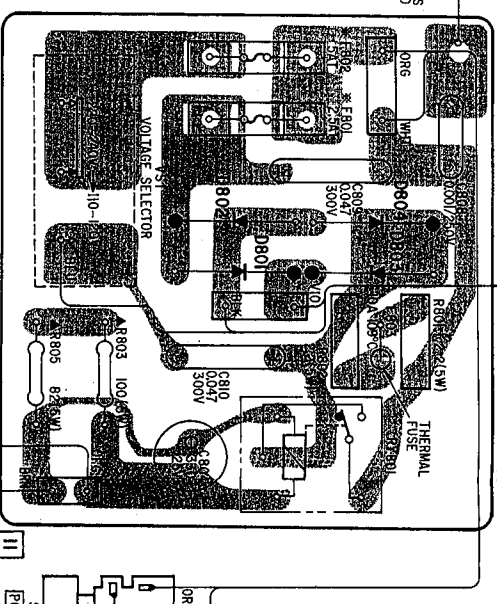
PLY BOARD]



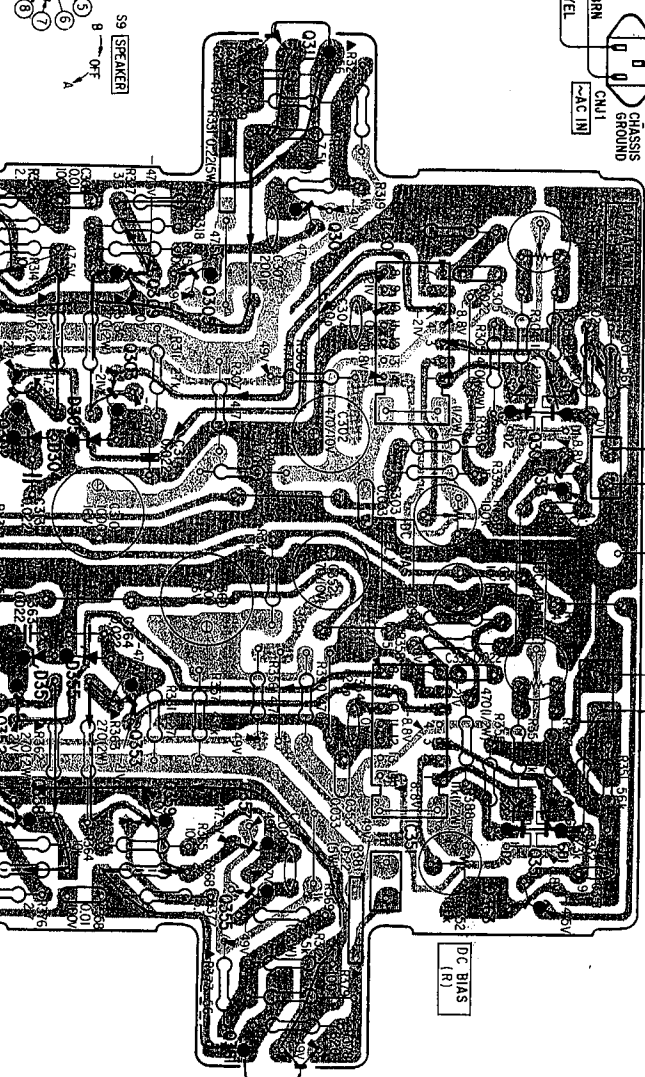
POWER SUPPLY (A) BOARD
COMPONENT SIDE



POWER SUPPLY (B) BOARD
COMPONENT SIDE



POWER AMP BOARD
COMPONENT SIDE

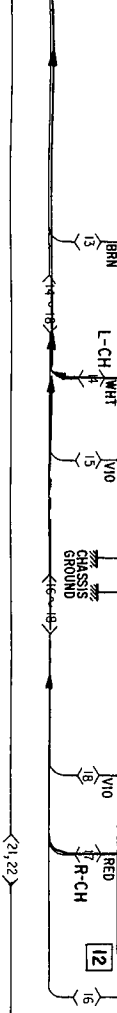


[METER BOARD]
CONDUCTOR SIDE



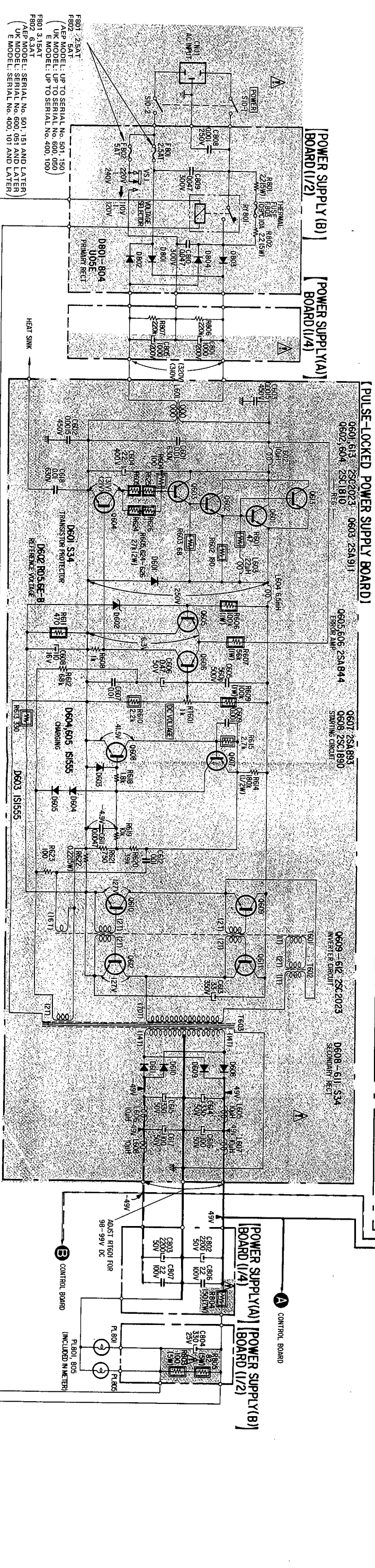
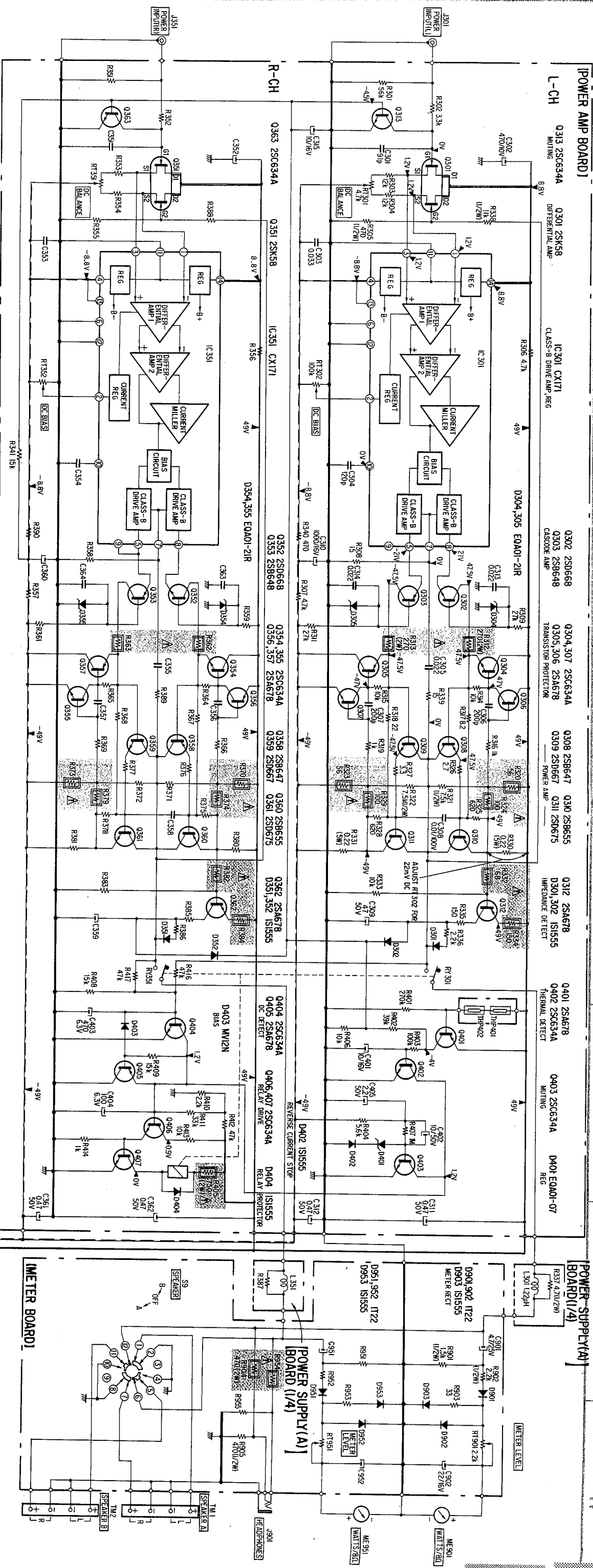
*
F801 2.5AT/AEP MODEL: UP TO SERIAL No. 600, 150
F802 5AT (UK MODEL: UP TO SERIAL No. 600, 050)
F803 1.5AT/AEP MODEL: UP TO SERIAL No. 501, 151 AND LATER
F802 6.3AT (UK MODEL: SERIAL No. 600, 051 AND LATER)
E MODEL: SERIAL No. 400, 101 AND LATER

CONTROL BOARD



4.7. POWER AMP SECTION SCHEMATIC DIAGRAM
(AEP, UK, E model)

TA-F6B TA-F6B



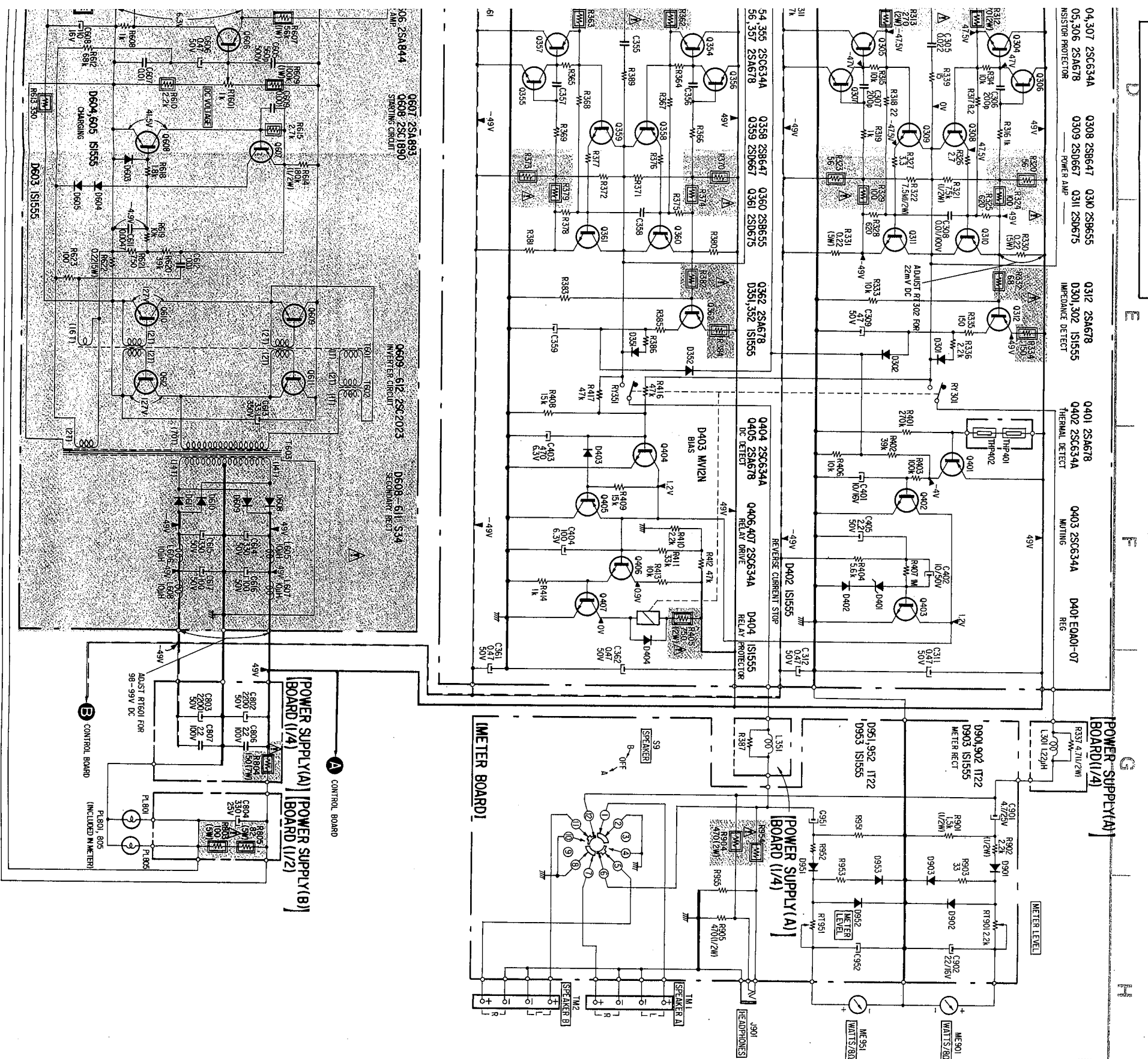
Note: The cc
part m

Note: Les co
rempla
specifi.

Note:

- Compinen channel. f
- All capaci: 50 WV or l
- All resisto K Ω = 1000
- All variab curve B, ui
- di
- nc
- pe
- B4
- ad
- B.
- Voltages a noted.
- Readings VOM (20 () : 12 < > : 24 tolerances.
- Voltage var
- Switch

Ref. No
S9
S10-1, 2
VS1



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 spécifique.

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. $\mu F = \mu F$, 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $K\Omega = 1000 \Omega$, $M\Omega = 1000 K\Omega$
- 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 V AC input).

$<$: 240 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	B OFF
VS1	VOLTAGE SELECTOR	220-240 V

Replacement Semiconductors

For replacement, use semiconductors except in ()

Q301, 351: 2SK58



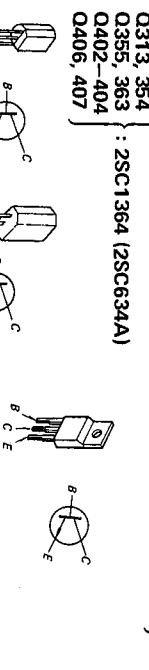
Q302, 352: 2SD668



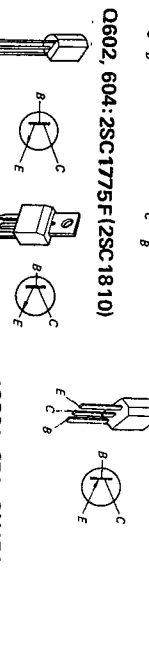
Q303, 353: 2SB648



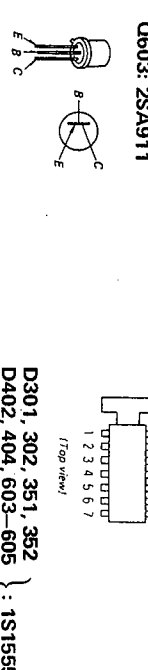
Q304, 307, 313, 354, 355, 363, 402-404, 406, 407 } : 2SC1364 (2SC634A)



Q602, 604: 2SC1775F (2SC1810)



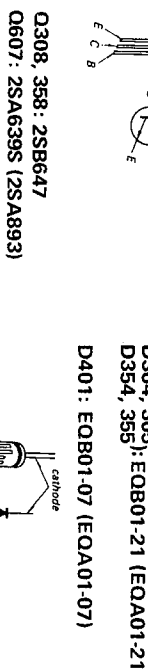
Q603: 2SA911



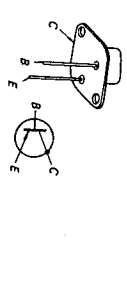
Q608: 2SC1775F (2SC1890)



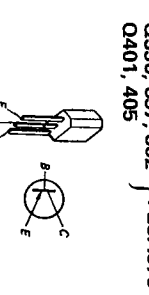
Q309, 359: 2SD667



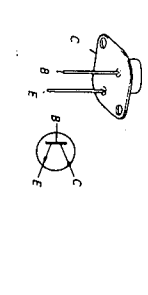
Q310, 360: 2SB655



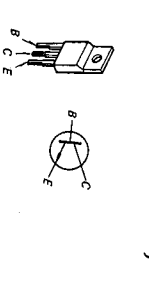
Q305, 306, 312, 356, 357, 362 } : 2SA678, 401, 405



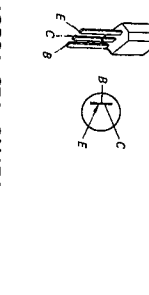
Q311, 361: 2SD675



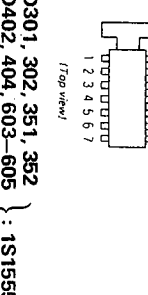
Q601, 613: 2SC2023-R } (2SC2023) Q609-612: 2SC2023-R



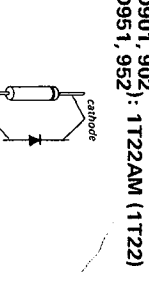
Q605, 606: 2SA678 (2SA844)



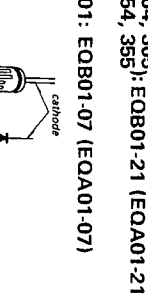
IC301, 351: CX171



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



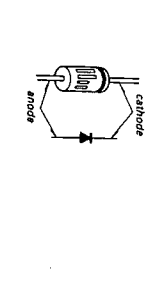
D602: RD5.6E (RD5.6E-B)



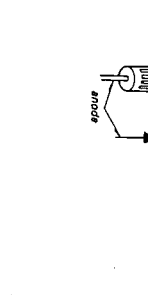
D901, 902: 1T22AM (1T22)



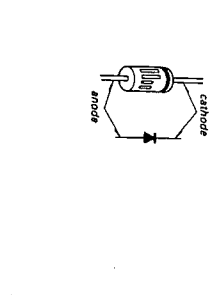
D304, 305: EOB01-21 (EOA01-21R)



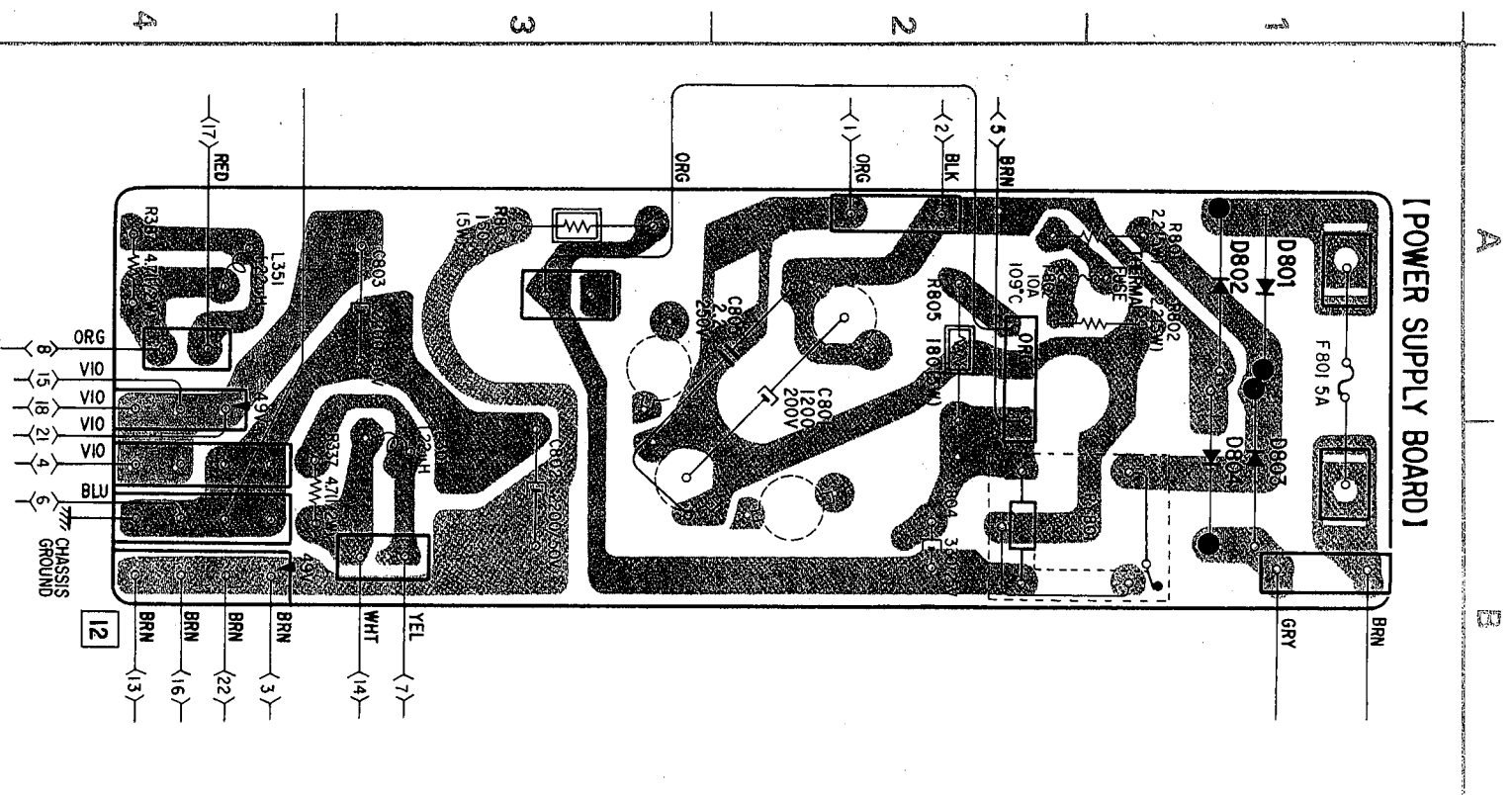
D354, 355



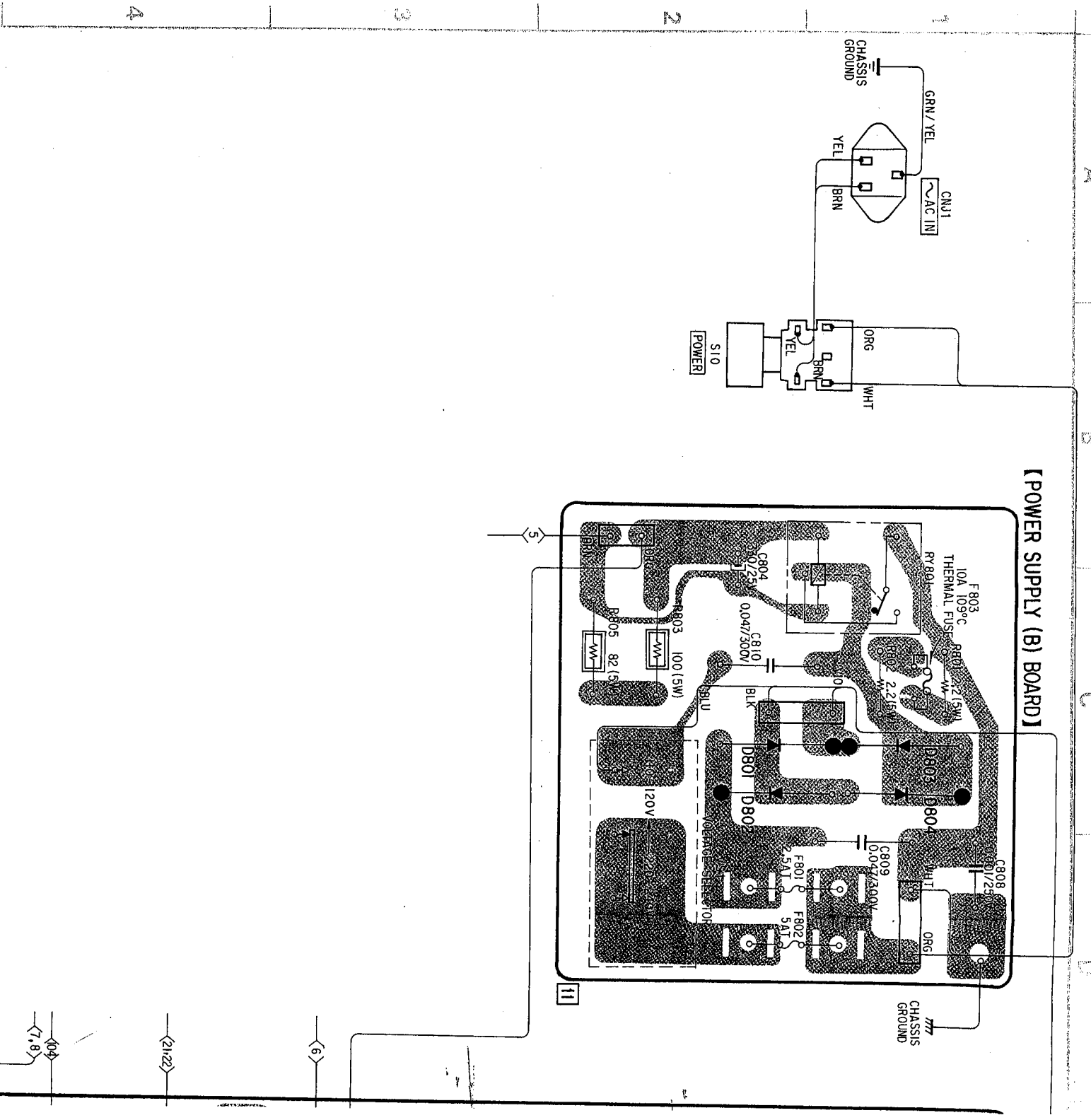
D401: EOB01-07 (EOA01-07)



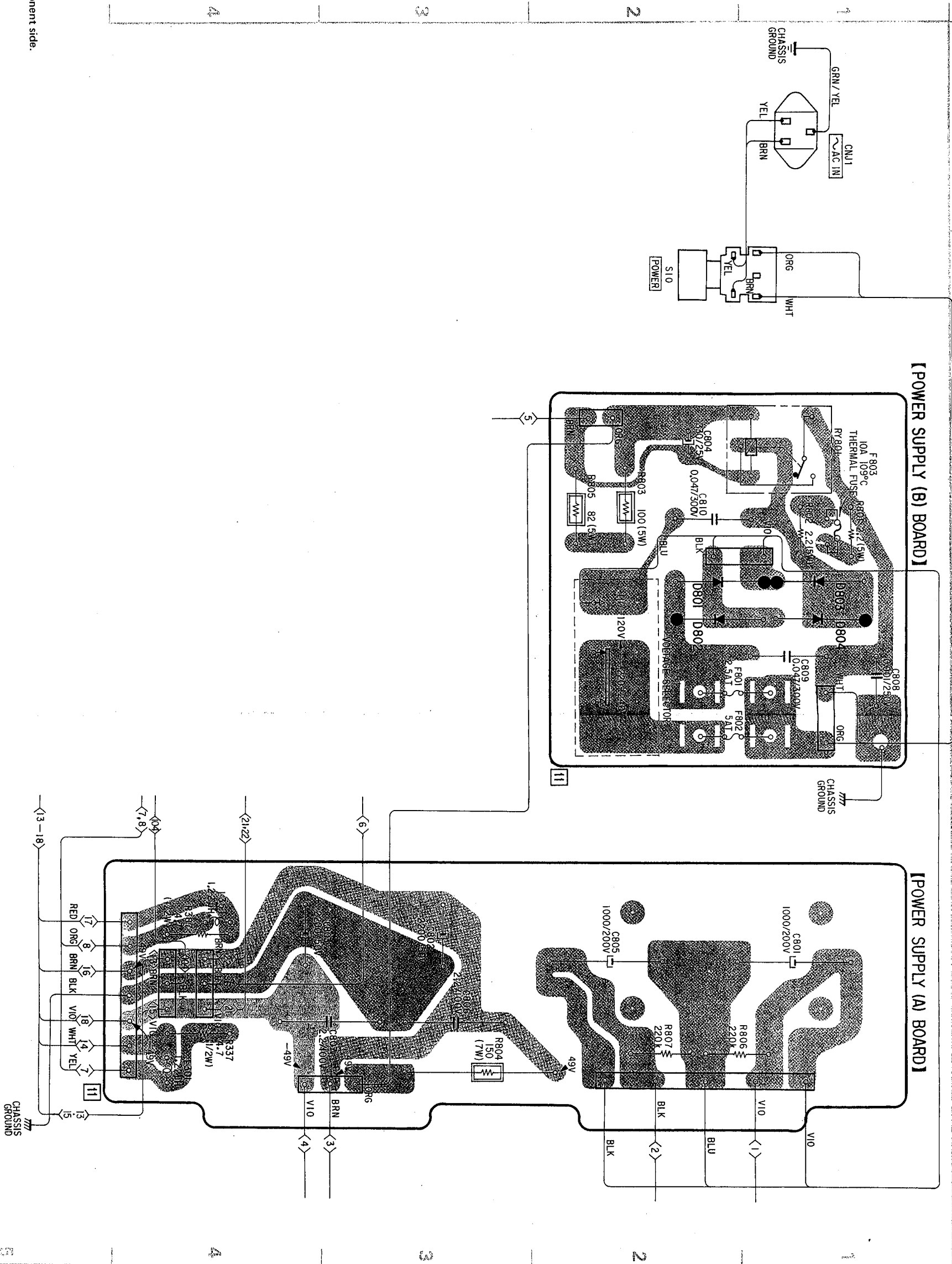
4-8. POWER SUPPLY BOARD MOUNTING DIAGRAM
 — Conductor Side — (US, Canadian model)



4-9. POWER SUPPLY BOARD MOUNTING DIAGRAM
 — Conductor Side — (AEP, UK, E model)



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



note:
 ○ : parts extracted from the component side.
 ■ : B+ pattern
 □ : B- pattern
 ⊕ : direct connection to points marked ⊕ on the chassis.

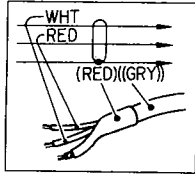
4-10. POWER AMP BOARD MOUNTING DIAGRAM

— Conductor Side —

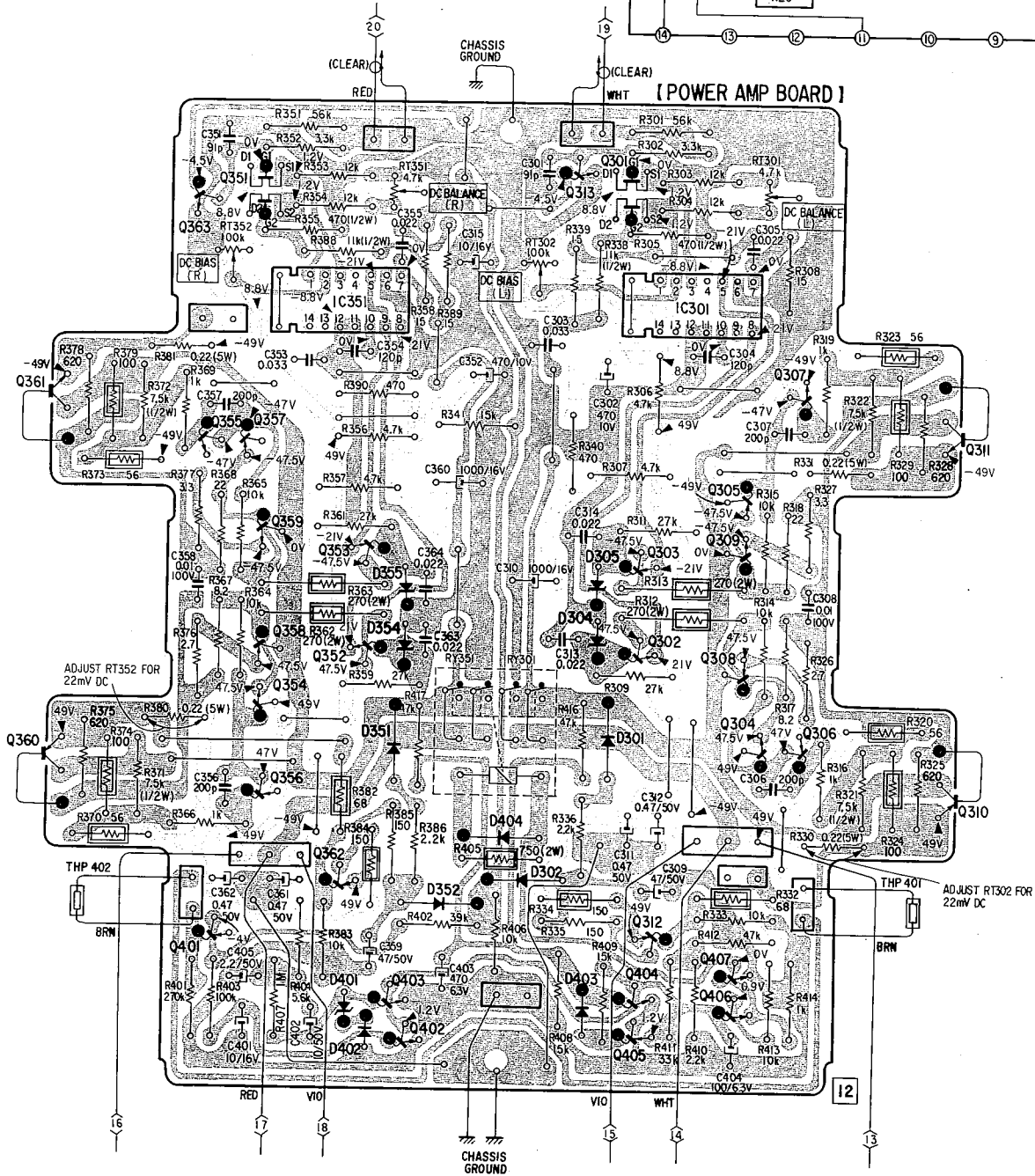
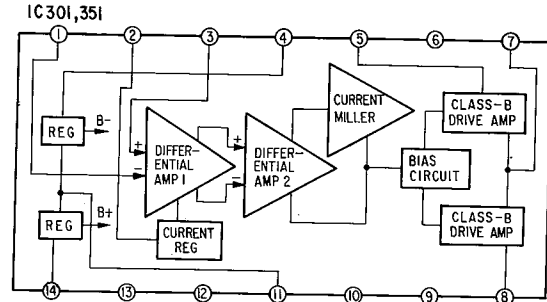
TA-F6B

Note:

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



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

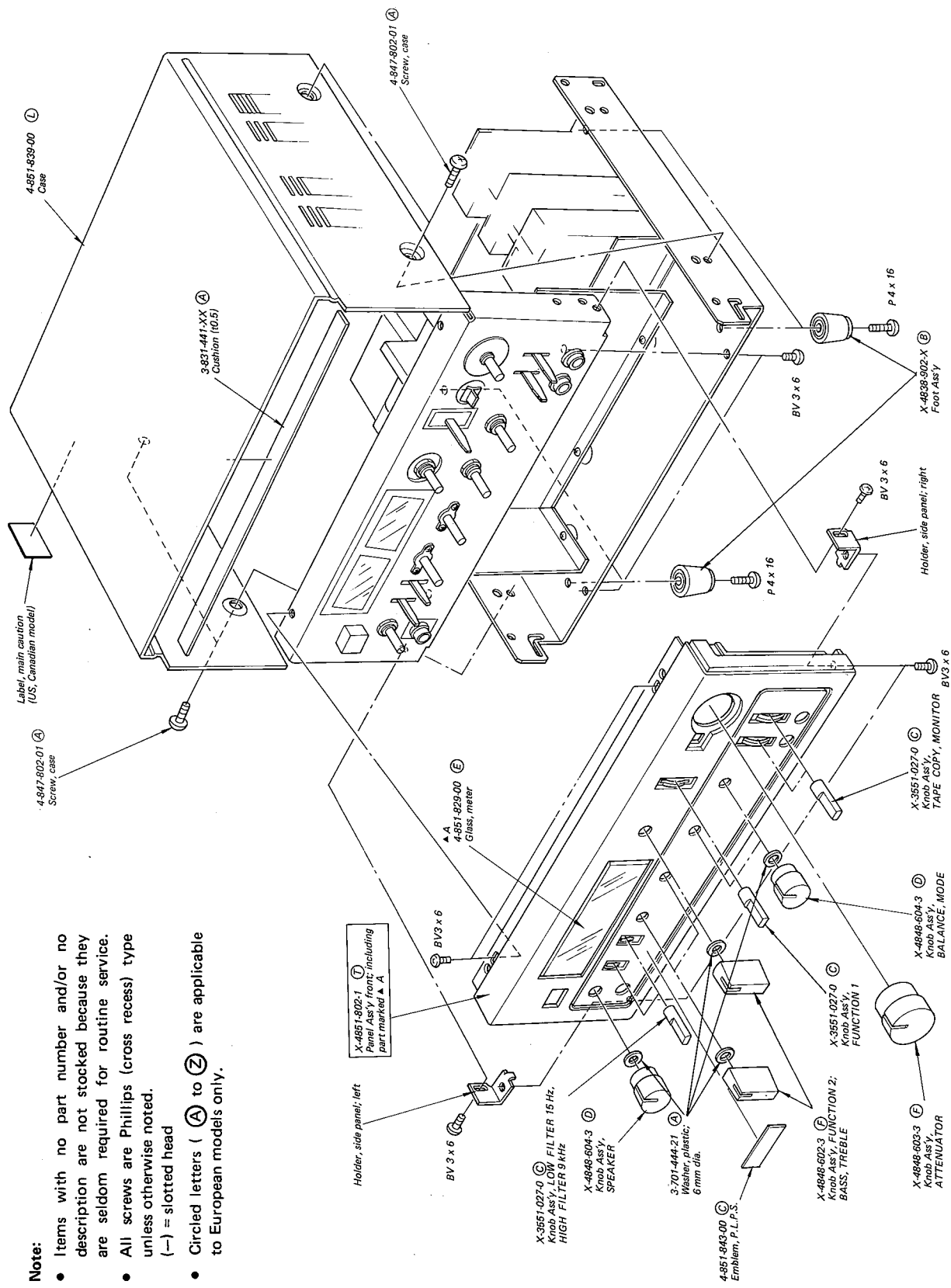


Q, IC	361	363	351	IC351	313	301	IC301	305	307			
		355	357	353		303		309				
	360	401	358	352		302		308				311
			354	362	403		312	304	306			310
			356		402		404	407				
D					405		406					D
				401	351	355	404	305				
				402	352	403	302	304	301			

SECTION 5
EXPLODED VIEWS

5-1.

A B C D E



- 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.

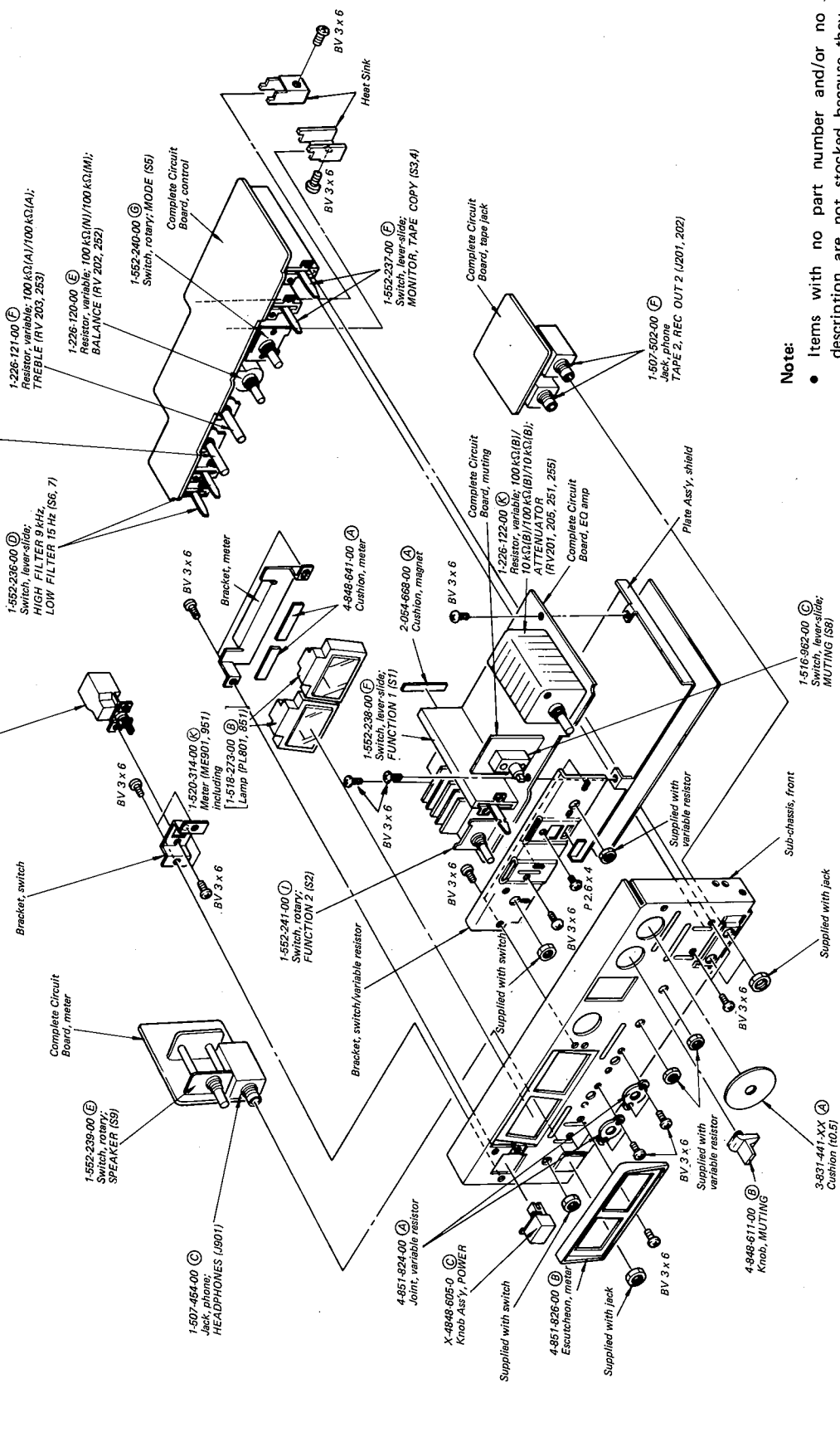
1

2

3

A B C D E

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



Note:

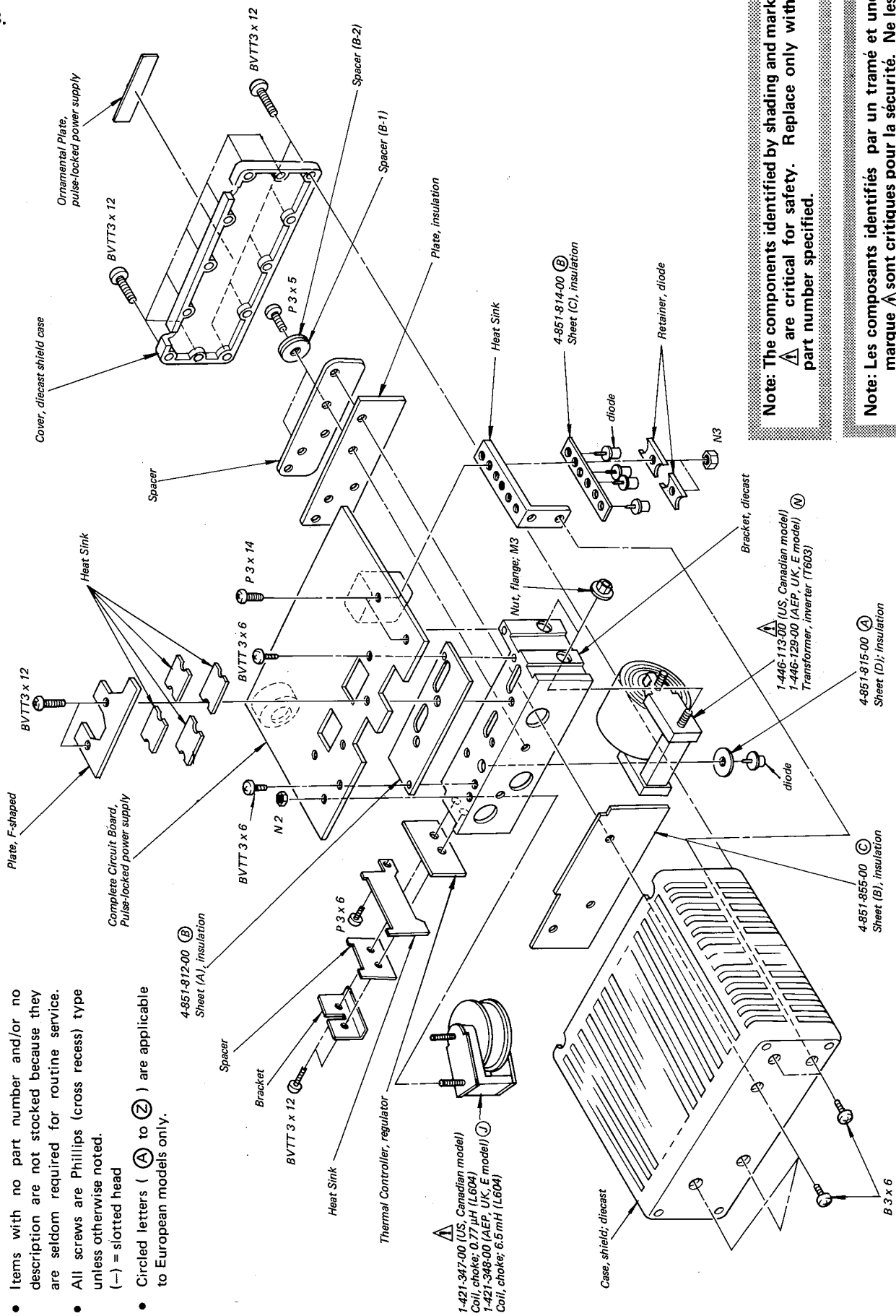
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- Circled letters (A to Z) are applicable to European models only.

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.

A B C D E

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 **A** are critical for safety. Replace only with part number specified.

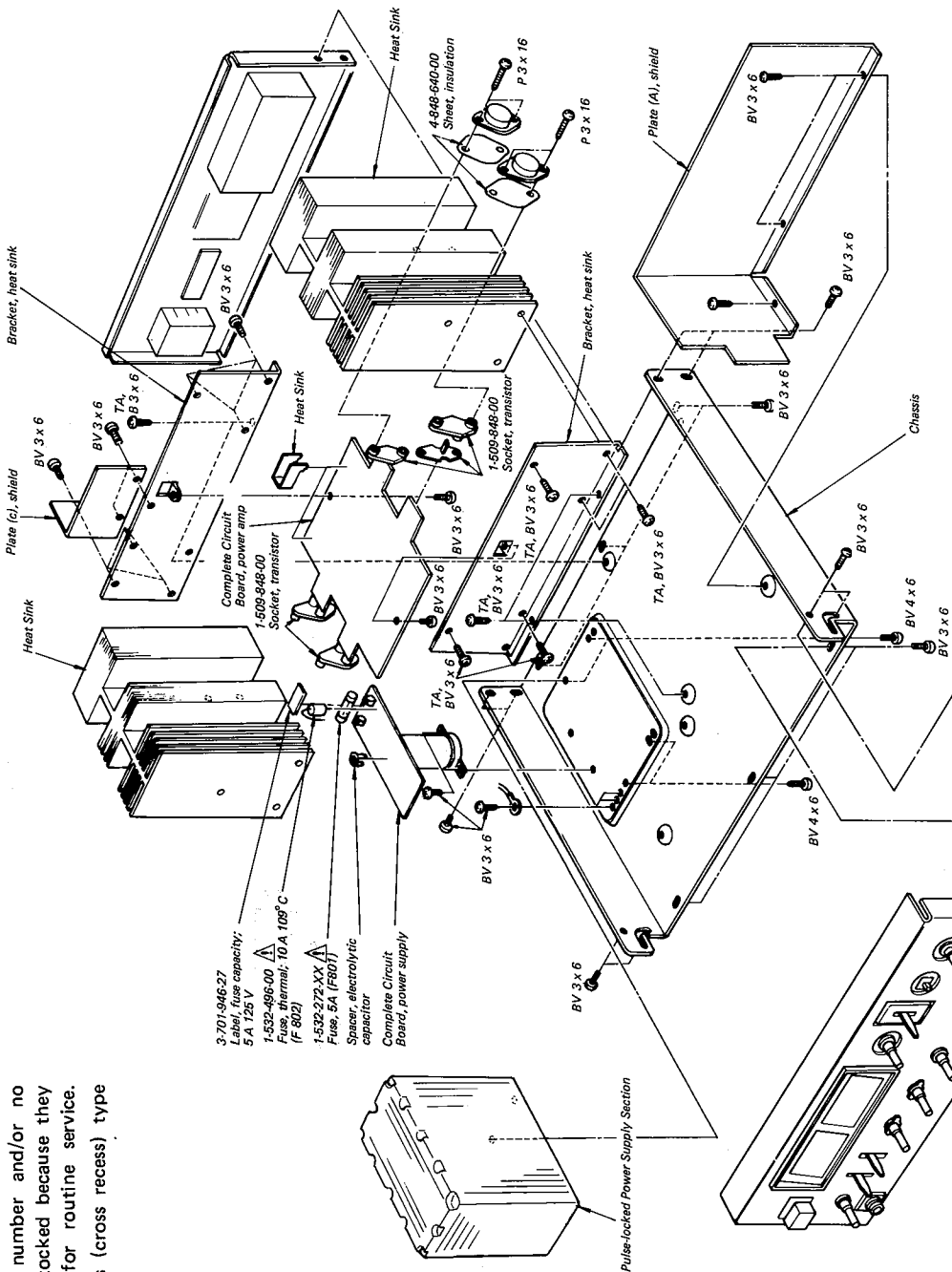
Note: Les composants identifiés par un trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-4. (US, Canadian model)

A B C D E

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



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

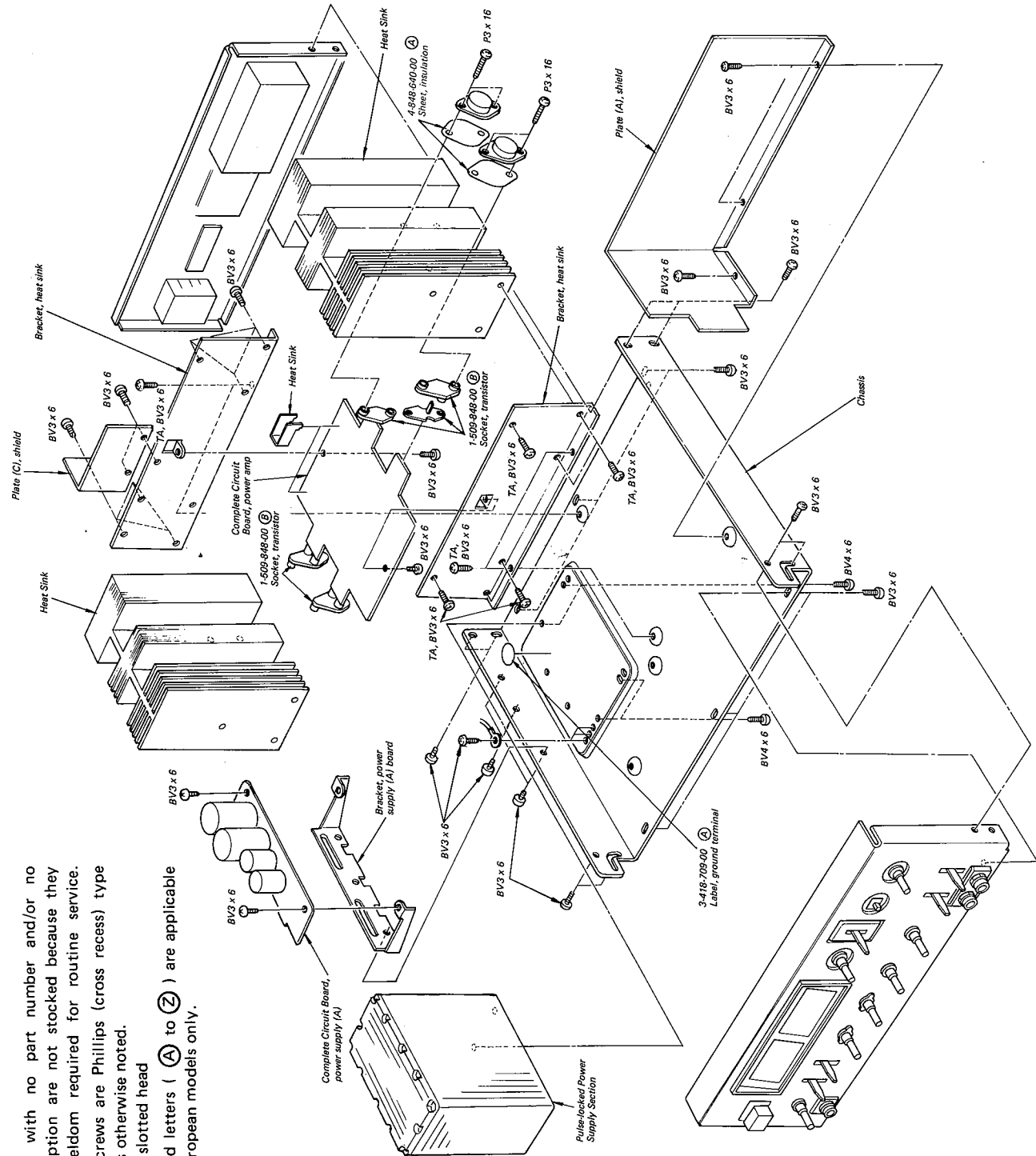
Note: Les composants identifiés par un tréflé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

A B C D E

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.



1

2

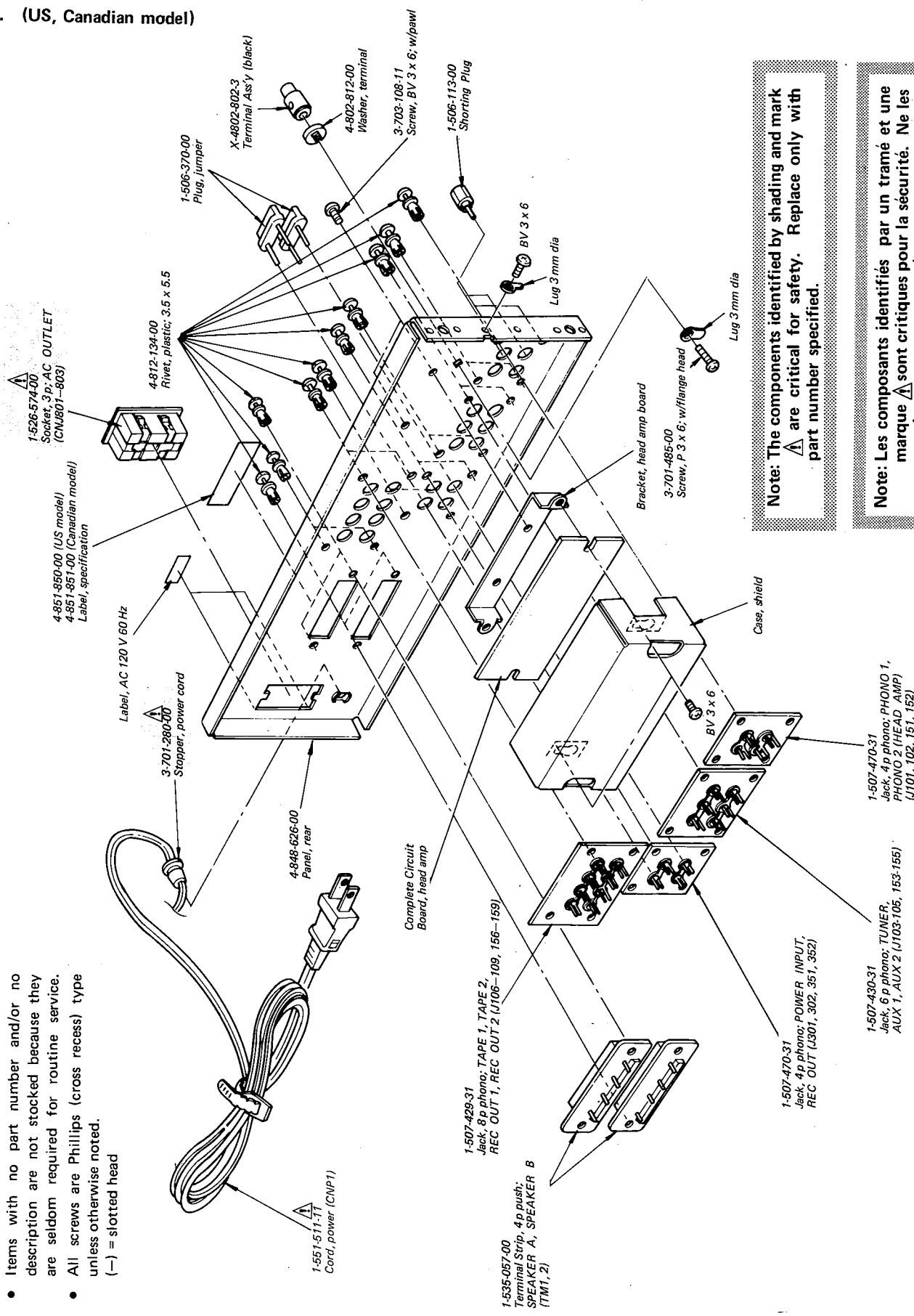
3

5-6. (US, Canadian model)

A B C D E

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



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.

5-7. (AEP, UK, E model)

E

D

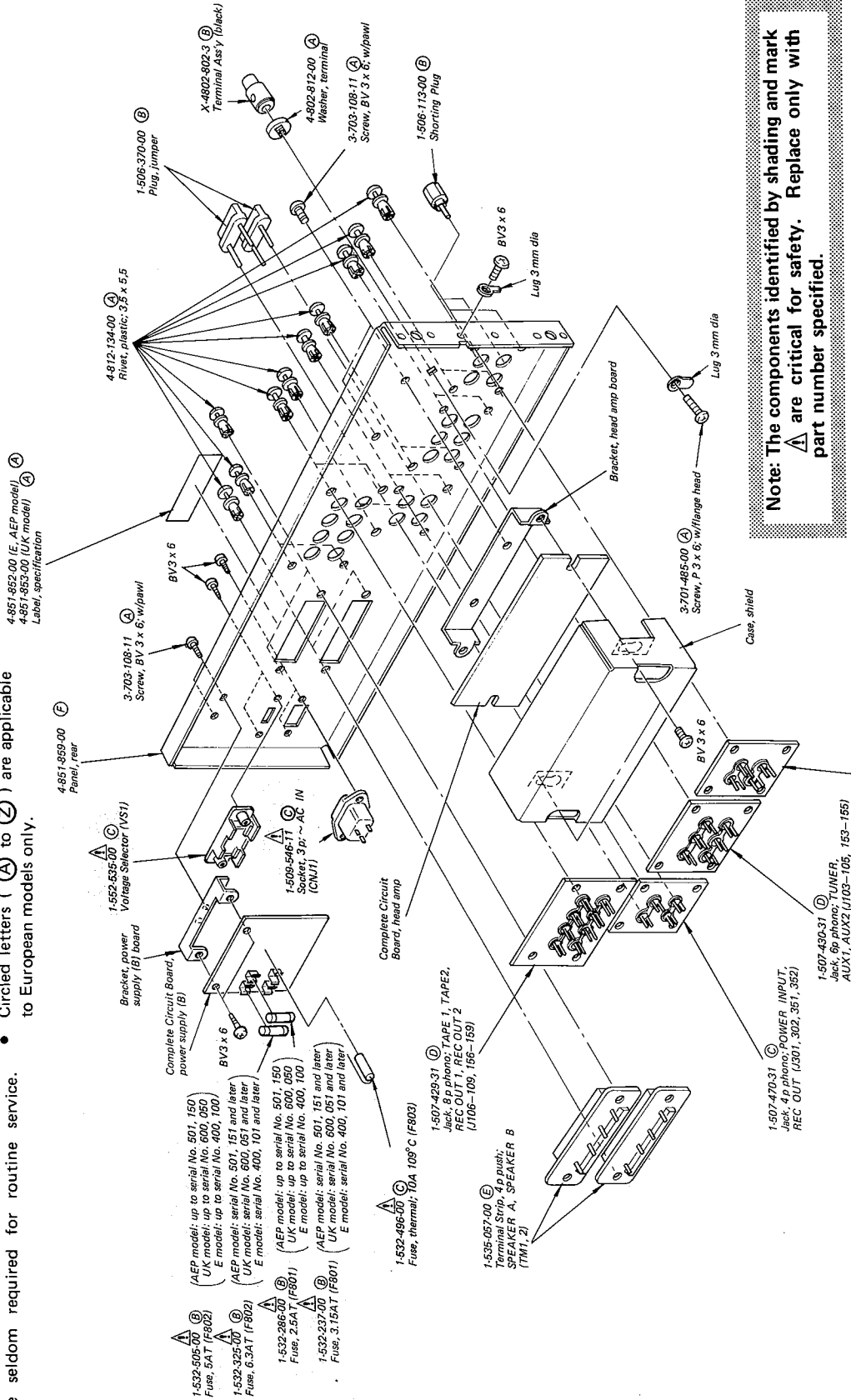
C

B

A

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 **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.

1

2

3

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
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) 47p
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 1/4 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	1/2 W	carbon
R106, 156	1-244-849-00	(A) 100	1/2 W	carbon
R110, 160	1-214-148-00	(A) 4.7 k	1/4 W	metal oxide 1 %
R111, 161	1-214-174-00	(A) 56 k	1/4 W	metal oxide 1 %
R122, 172	1-244-857-00	(A) 220	1/2 W	carbon

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 tramé 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	⚠1-206-650-00 (A)270	2 W metal oxide (nonflammable)
R313, 363		
R320, 370	⚠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		
R323, 373	⚠1-211-516-00 (B)56	¼ W carbon (nonflammable)
R324, 374	⚠1-211-522-00 (C)100	¼ W carbon (nonflammable)
R329, 379		
R330, 380	1-217-156-00 (A)0.22	5 W wirewound
R331, 381		
R332, 382	⚠1-211-518-00 (C)68	¼ W carbon (nonflammable)
R334, 384	⚠1-211-526-00 (C)150	¼ W carbon (nonflammable)
R337, 387	1-244-817-00 (A)4.7	½ W carbon
R405	⚠1-206-661-00 (A)750	2 W metal oxide (nonflammable)
R501, 508	⚠1-206-483-00 (A)68	2 W metal oxide (nonflammable)
R514	1-244-859-00 (A)270	½ W carbon
R601	⚠1-211-490-00 4.7	¼ W carbon (nonflammable) (US, Canadian model)
R601	⚠1-211-514-00 (A)47	¼ W carbon (nonflammable) (AEP, UK, E model)
R602	⚠1-211-498-00 10	¼ W carbon (nonflammable) (US, Canadian model)
R602	⚠1-211-528-00 (A)180	¼ W carbon (nonflammable) (AEP, UK, E model)
R603	⚠1-211-514-00 47	¼ W carbon (nonflammable) (US, Canadian model)
R603	⚠1-211-518-00 (C)68	¼ W carbon (nonflammable) (AEP, UK, E model)

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

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

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

MISCELLANEOUS

THP401, 402 1-800-427-00 ⓑ Thermistor, positive

COILS

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

TRANSFORMERS

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

CAPACITORS

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

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

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

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

Note: Les composants identifiés par un tramé 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
R620	Δ1-246-511-00 (A) 39k	1/4 W carbon
R621	Δ1-246-469-00 680	1/4 W carbon (US, Canadian model)
R621	Δ1-246-470-00 (A) 750	1/4 W carbon (AEP, UK, E model)
R622	Δ1-217-156-00 (A) 0.22	5 W wirewound
R623	Δ1-246-451-00 120	1/4 W carbon (US, Canadian model)
R623	Δ1-246-449-00 (A) 100	1/4 W carbon (AEP, UK, E model)
R624	Δ1-214-596-00 39k	2 W metal oxide (nonflammable)
R624-626	Δ1-206-698-00 (A) 27k	(US, Canadian model) 2 W metal oxide (nonflammable) (AEP, UK, E model)
R701, 751	1-244-850-00 (A) 110	1/2 W carbon
R705, 755	1-244-879-00 (A) 1.8k	1/2 W carbon
R708, 758	1-244-845-00 (A) 68	1/2 W carbon
R709, 759	1-244-809-00 (A) 2.2	1/2 W carbon
R801, 802	Δ1-217-570-00 (B) 2.2	5 W metal oxide
R803	Δ1-217-312-00 150	5 W wirewound (nonflammable)
R803	Δ1-217-310-00 (B) 100	(US, Canadian model) 5 W wirewound (nonflammable)
R804	Δ1-217-347-00 (B) 150	(AEP, UK, E model) 7 W wirewound (nonflammable)
R805	Δ1-217-313-00 180	(AEP, UK, E model) 5 W wirewound (nonflammable)
R805	Δ1-217-309-00 (B) 82	(US, Canadian model) 5 W wirewound (nonflammable) (AEP, UK, E model)
R901, 951	1-244-877-00 (A) 1.5k	1/4 W carbon
R902, 952	1-244-881-00 (A) 2.2k	1/4 W carbon
R904, 954	Δ1-207-640-00 (B) 470	2 W wirewound (nonflammable)
R905, 955	1-244-865-00 (A) 470	1/4 W carbon

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

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

Ref. No.	Part No.	Description
RT301, 351	1-224-251-XX (C) 4.7k	adjustable; dc balance
RT302, 352	1-224-255-XX (C) 100k	adjustable; dc bias
RT601	Δ1-224-642-XX (B) 1k	adjustable; dc voltage
RT901, 951	1-224-489-00 (B) 2.2k	adjustable; meter level calibration
RV201, 251	(K) 100k/100k/10k/10k	variable; ATTENUATOR
RV205, 255	1-226-122-00	ATTENUATOR
RV202, 252	1-226-120-00 (E) 100k (N)/100k (M)	variable; BALANCE
RV203, 253	1-226-121-00 (F) 100k (A)/100k (A)	variable; TREBLE
RV204, 254	1-226-119-00 (F) 100k (C)/100k (C)	variable; BASS

SWITCHES

S1	1-552-238-00 (E) Lever-slide; FUNCTION (1)
S2	1-552-241-00 (F) 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	Δ1-552-141-00 (E) Pushbutton; POWER (AEP, UK, E model)
S10	Δ1-552-246-00 Pushbutton; POWER (US, Canadian model)
V51	Δ1-552-535-00 (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	(C) 4 p Phono; TUNER, AUX 1, AUX 2
J103, 153	1-507-430-31 (D) 6 p Phono; TAPE 1, TAPE 2, REC OUT 1, REC OUT 2
J105, 155	1-507-429-31 (D) 8 p Phono; TAPE 1, TAPE 2, REC OUT 1, REC OUT 2
J106, 156	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	1-507-454-00 (C) Phone; HEADPHONES

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.

MISCELLANEOUS

CN11	Δ1-509-546-11 (C) Socket, 3 p; ~ AC IN (AEP, UK, E model)
CNJ801	Δ1-526-574-00 Socket, 3 p; AC OUTPUT (US, Canadian model)
CNP1	Δ1-551-511-11 Cord, power (US, Canadian model)
CP1	Δ1-231-326-11 Encapsulated Component (US model)
CP1	Δ1-231-341-00 Encapsulated Component (Canadian model)
F801	Δ1-532-272-XX Fuse, 5A (US, Canadian model)
F801	Δ1-532-286-00 (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	Δ1-532-237-00 (B) Fuse, 3.15AT (AEP model: serial No. 501, 151 and later) (UK model: up to serial No. 600, 050) (E model: serial No. 400, 101 and later)
F802	Δ1-532-496-00 Fuse, thermal; 10A 109°C (US, Canadian model)
F802	Δ1-532-505-00 (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	Δ1-532-325-00 (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	Δ1-532-496-00 (C) Fuse, thermal; 10A 109°C (AEP, UK, E model)

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.

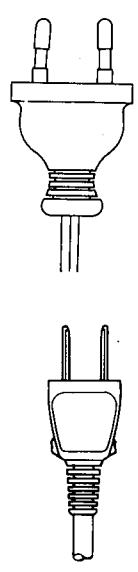
Note: Circled letters (A) to (Z) are applicable to European models only.

Ref. No.	Part No.	Description
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	Δ1-515-278-00 (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

1-506-113-00	(B) Shorting Plug
Δ1-534-754-00	Cord, power; parallel-blade plug (E model)
Δ1-534-819-00	(C) Cord, power (UK model)
Δ1-551-216-00	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

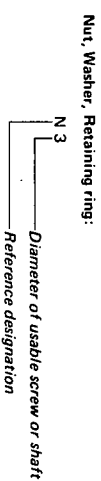
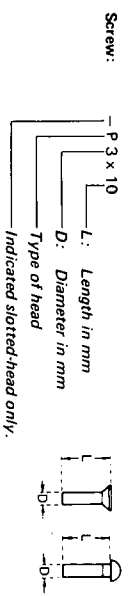
Power Cord — euro-plug parallel-blade plug



1/4 WATT CARBON RESISTORS $\text{\textcircled{A}}$ Note: Circled letter $\text{\textcircled{A}}$ is applicable to European models only.

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
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
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-498-00	11k	1-246-498-00	110k	1-246-522-00
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
1.3	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
1.5	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
1.6	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
1.8	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
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
2.2	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
2.4	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
2.7	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
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
3.3	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
3.6	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
3.9	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
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
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00 $\text{\textcircled{A}}$	47k	1-246-513-00	470k	1-246-537-00
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
5.6	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		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW		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-filler-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 2.5 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	

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