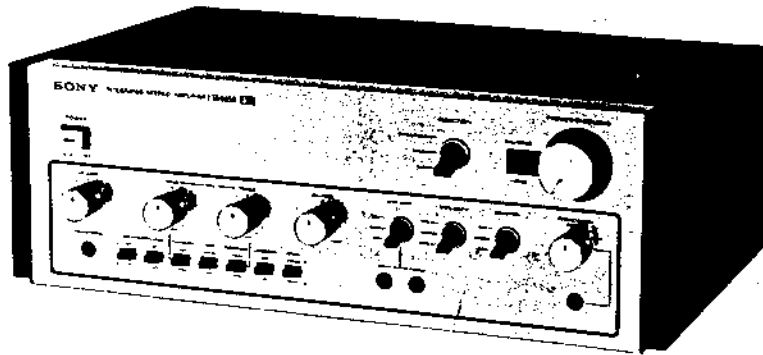


# TA-5650

*WEGA V 4810 USA Model*  
Canada Model  
UK Model  
AEP Model



Discard TA-5650 service manual previously issued for UK and AEP Models. This service manual contains former information.

## INTEGRATED STEREO AMPLIFIER

### SPECIFICATIONS

#### GENERAL

**Power Requirements:** 120 V ac, 60 Hz (USA and Canada Model)  
110, 127, 220 or 240 V ac adjustable, 50/60 Hz (UK and AEP Model)

**Power Consumption:** 160 W (USA Model)  
320 VA (Canada Model)  
440 W (UK and AEP Model)

**Dimensions:** Approx. 460(w) x 168(h) x 323(d) mm  
18 $\frac{1}{8}$ (w) x 6 $\frac{5}{8}$ (h) x 12 $\frac{3}{4}$ (d) inches  
Including projecting parts and controls

**Weight:** Approx. 13.4 kg, 29 lb 9 oz (net)  
Approx. 16 kg, 35 lb 4 oz (in shipping carton)

**Harmonic Distortion:** Less than 0.1 % at rated output  
Less than 0.08 % at 1 W output

**IM Distortion:** Less than 0.1 % at rated output  
(60 Hz : 7 kHz = 4 : 1)  
Less than 0.08 % at 1 W output

**Frequency Response** (at 1 W output): 2 Hz — 100 kHz $_{-2}^{+0}$  dB

**S/N Ratio:** Greater than 110 dB, short-circuited input

**Residual Noise:** Less than 0.02  $\mu$ W (8  $\Omega$ )

**Damping Factor:** 50 (8  $\Omega$ , at 1 kHz)

**Inputs:** POWER INPUT  
Sensitivity 1 V RMS (for rated output), impedance 50 k $\Omega$

**Outputs:** SPEAKER terminals A, B  
Accept speakers of 4  $\Omega$  or more  
HEADPHONES jack  
Accepts low and high-impedance stereo headphones

#### POWER AMPLIFIER SECTION

**Continuous RMS Power Output:** At 1 kHz  
(less than 0.1 % THD, both channels driven simultaneously)  
60 + 60 W (8  $\Omega$ )  
50 + 50 W (4  $\Omega$ )  
At 20 Hz — 20 kHz  
50 + 50 W (8  $\Omega$ )  
according to DIN 45500  
55 + 55 W (8  $\Omega$ )

**Dynamic Power Output:** (IHF constant power supply method)  
160 W (8  $\Omega$ )  
140 W (4  $\Omega$ )

**Power Bandwidth (IHF):** 5 — 40,000 Hz

0 dB = 0.775 V

— continued on page 2 —

# SONY<sup>®</sup>

## SERVICE MANUAL

## PREAMPLIFIER SECTION

- Harmonic Distortion:** Less than 0.05 % at rated output  
**IM Distortion:** Less than 0.05 % at rated output  
 (60 Hz : 7 kHz = 4 : 1)  
**Frequency Response:** PHONO 1, 2 RIAA equalization  $\pm 0.5$  dB  
 TUNER  
 AUX 1, 2, 3  
 TAPE 1, 2  
 REC/PB (input)  
 EXT ADPT 1, 2 (input)
 

}	10 Hz - 100 kHz $\pm 0.5$ dB (TONE: CANCEL)
---	---
- Tone Controls:** BASS:  
 $\pm 10$  dB at 50 Hz (TURNOVER 250 Hz)  
 $\pm 10$  dB at 100 Hz (TURNOVER 500 Hz)  
 TREBLE:  
 $\pm 10$  dB at 10 kHz (TURNOVER 2.5 kHz)  
 $\pm 10$  dB at 20 kHz (TURNOVER 5 kHz)
- Filters:** LOW:  
 12 dB/octave attenuation below 30 Hz  
 HIGH:  
 12 dB/octave attenuation above 9 kHz
- Loudness switch:** (att. 30 dB)  
 + 10 dB at 50 Hz  
 + 3 dB at 10 kHz

### Inputs:

	Sensitivity	Impedance	Maximum input capability*	S/N (weighting network)
PHONO 1, 2	2.5 mV	50 k ohms	300 mV	greater than 70 dB (B)
AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2 (input)	150 mV	250 k ohms	—	greater than 90 dB (A)

\* The maximum input capability is measured at a 0.05% harmonic distortion.

### Outputs:

	Output voltage	Impedance
REC OUT 1, 2	150 mV	4.7 k ohms
PRE OUTPUT	1 V	1 k ohm
REC/PB	17 mV	82 k ohms
EXT ADPT 1, 2	150 mV	4.7 k ohms

### Specification Labels:

#### USA Model

<b>SONY</b> <sup>®</sup>	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650 AC 120V 60Hz 160W SERIAL NO. _____
MADE IN JAPAN	

#### Canada Model

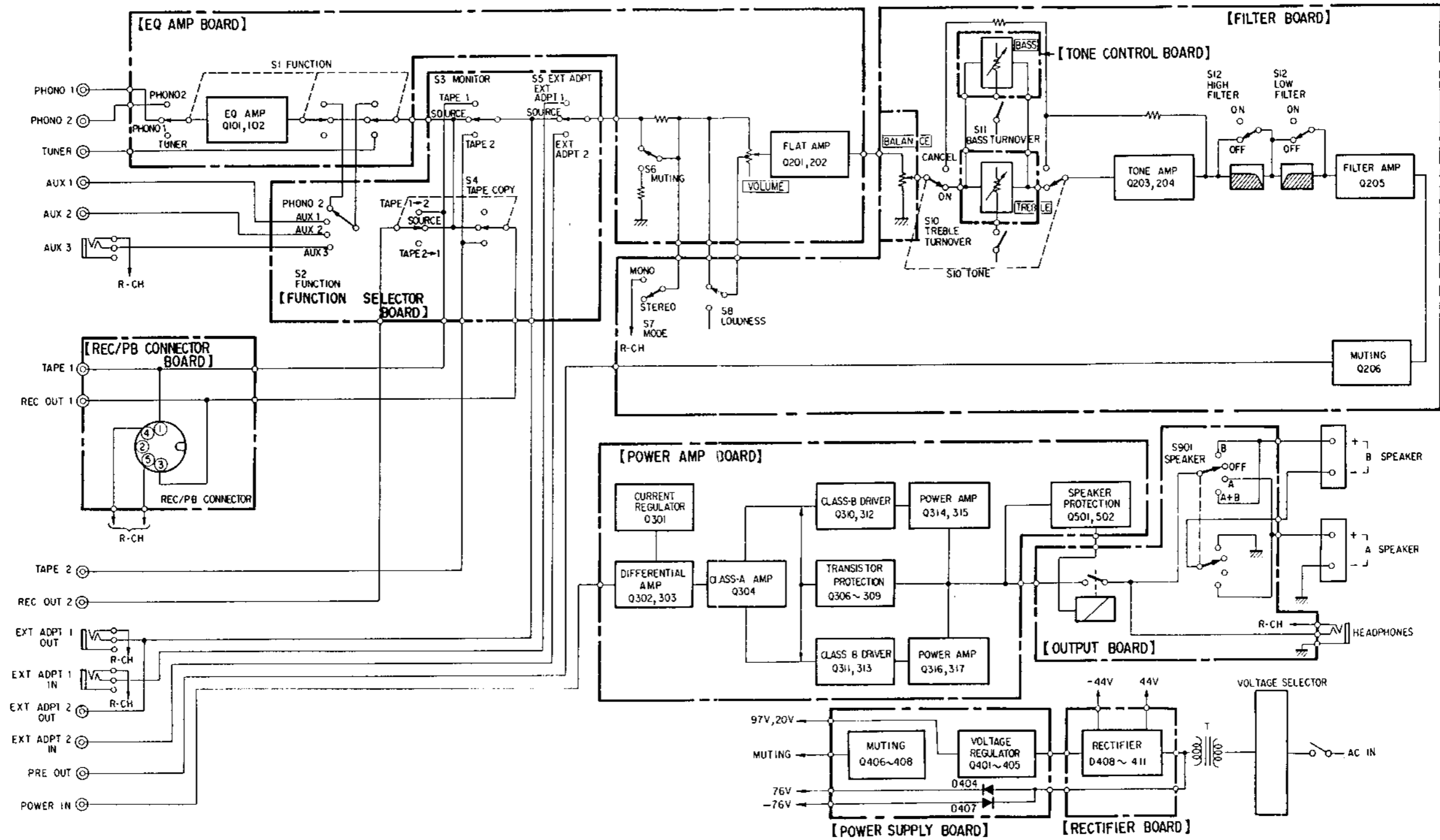
<b>SONY</b> <sup>®</sup>	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650 AC 120V 60Hz 320VA SERIAL NO. _____
MADE IN JAPAN	

#### UK and AEP Models

<b>SONY</b> <sup>®</sup>	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650 AC 110.127.220.240V~ 50/60Hz 440W SERIAL NO. * _____
MADE IN JAPAN	

Note: \* UK Model: Serial No. 600,001 and later  
 AEP Model: Serial No. 500,001 and later

SECTION 1  
BLOCK DIAGRAM



**SECTION 2  
ADJUSTMENT**

**Note:** Turn the power switch on and allow about five minutes for warm-up the set.

**2-1. 20 V POWER VOLTAGE ADJUSTMENT**

With no input signal, adjust RT401 so that the emitter voltage of Q403 becomes 20 V.

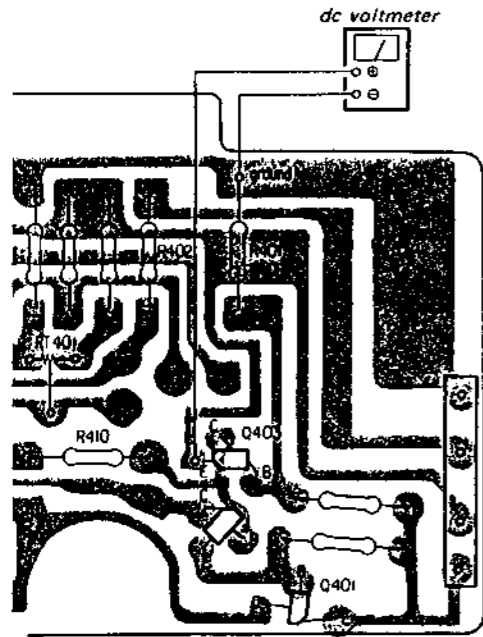


Fig. 2-1. 20 V power voltage adjustment

**2-2. 97V POWER VOLTAGE CONFIRMATION**

After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows 97 V ± 3 V.

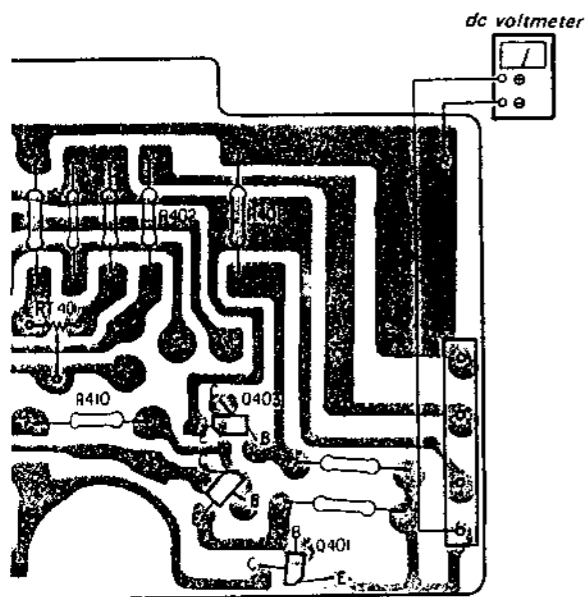


Fig. 2-2. 97V power voltage confirmation

**2-3. CONFIRMATION OF DC BALANCE VOLTAGE**

1. Set the SPEAKER switch to "A" position.
2. Connect the dc voltmeter across the SPEAKER OUT "A".
3. Confirm that the dc voltage at SPEAKER OUT "A" shows 0V ± 50 mV.

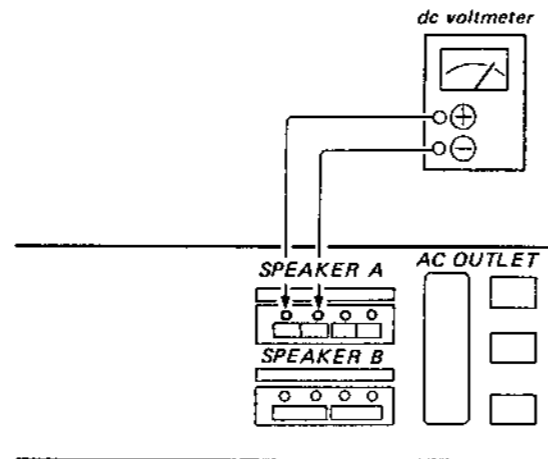


Fig. 2-3. Confirmation of dc balance voltage

**2-4. DC BIAS ADJUSTMENT**

Adjust RT301 and RT351 for 90 mV reading on the meter, with no input signal.

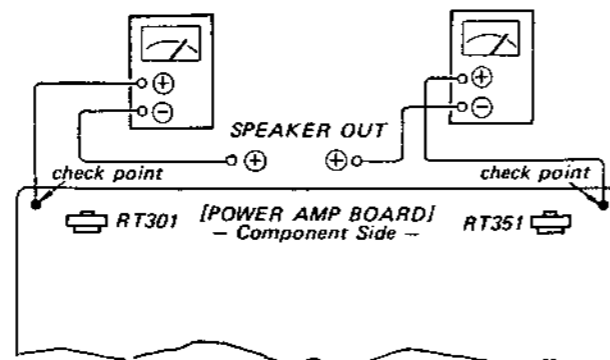


Fig. 2-4. DC bias adjustment

**2-5. CHASSIS LAYOUT**

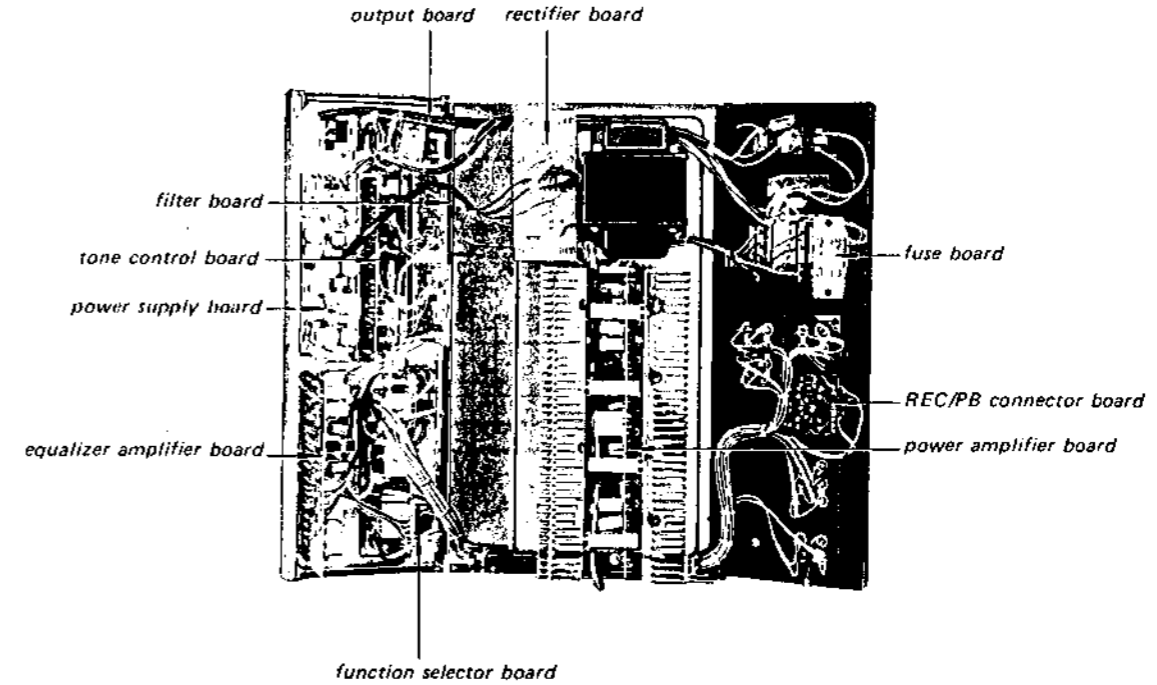
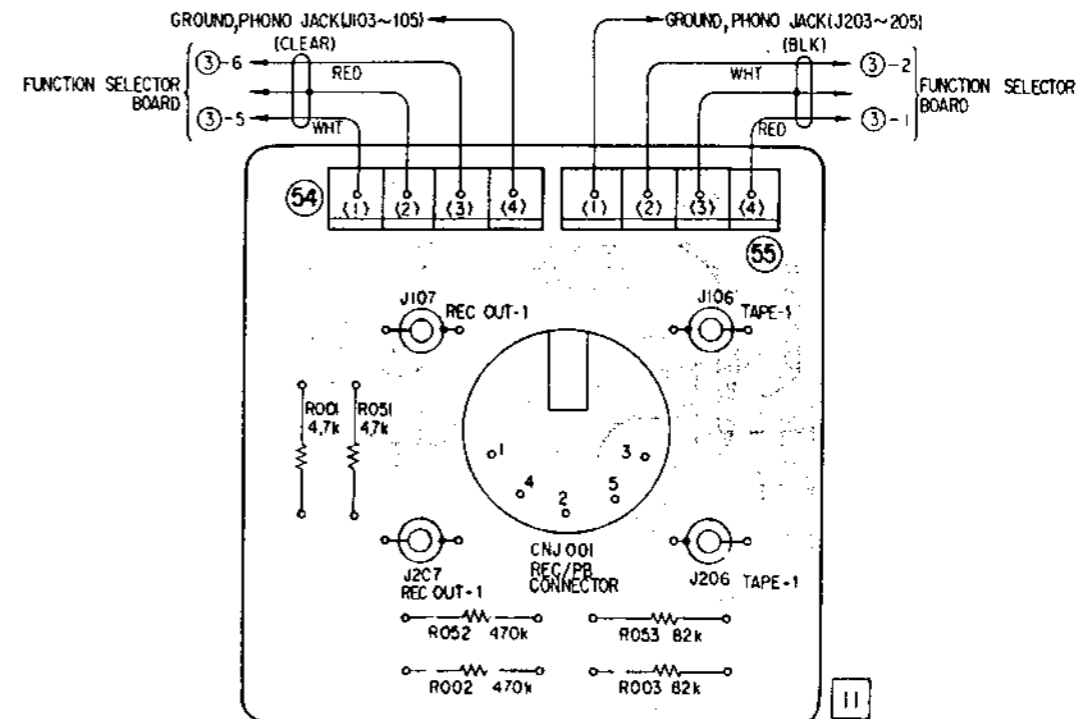


Fig. 2-5. Chassis layout

**SECTION 3  
MOUNTING AND SCHEMATIC DIAGRAMS**

**3-1. MOUNTING DIAGRAM - REC/PB CONNECTOR BOARD -**

- Conductor Side -



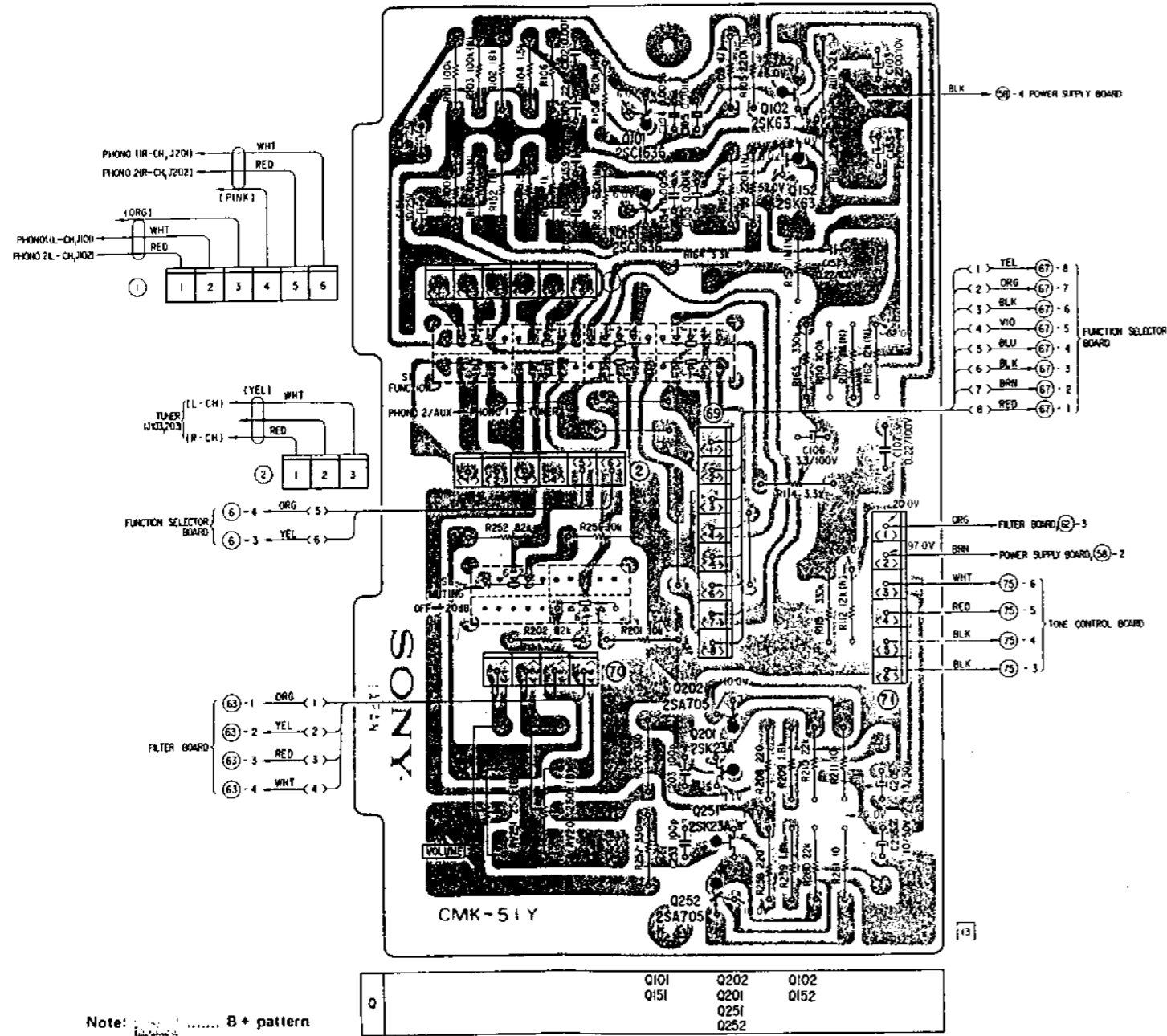


# TA-5650 TA-5650

## 3-4. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

- Conductor Side -

UK Model: Up to serial No. 600,350  
AEP Model: Up to serial No. 501,900

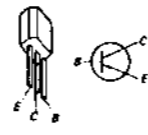
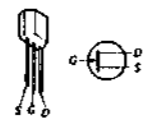
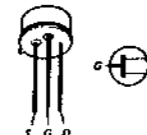
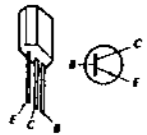


Q101, 151: 2SC1636

Q102, 152: 2SK63

Q201, 251: 2SK23A

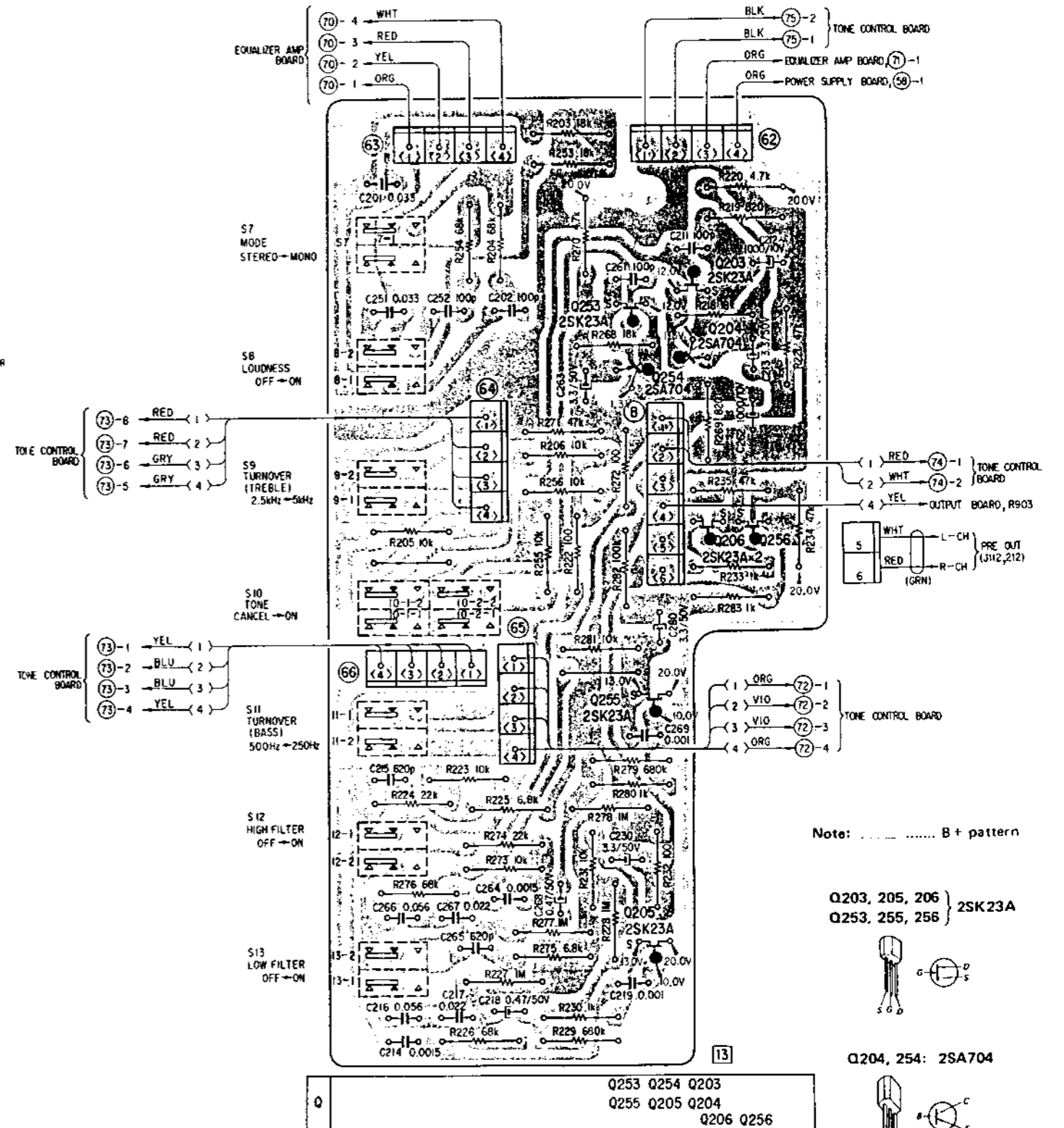
Q202, 252: 2SA705



## 3-5. MOUNTING DIAGRAM - FILTER BOARD -

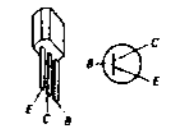
- Conductor Side -

UK Model: Up to serial No. 600,350  
AEP Model: Up to serial No. 501,900



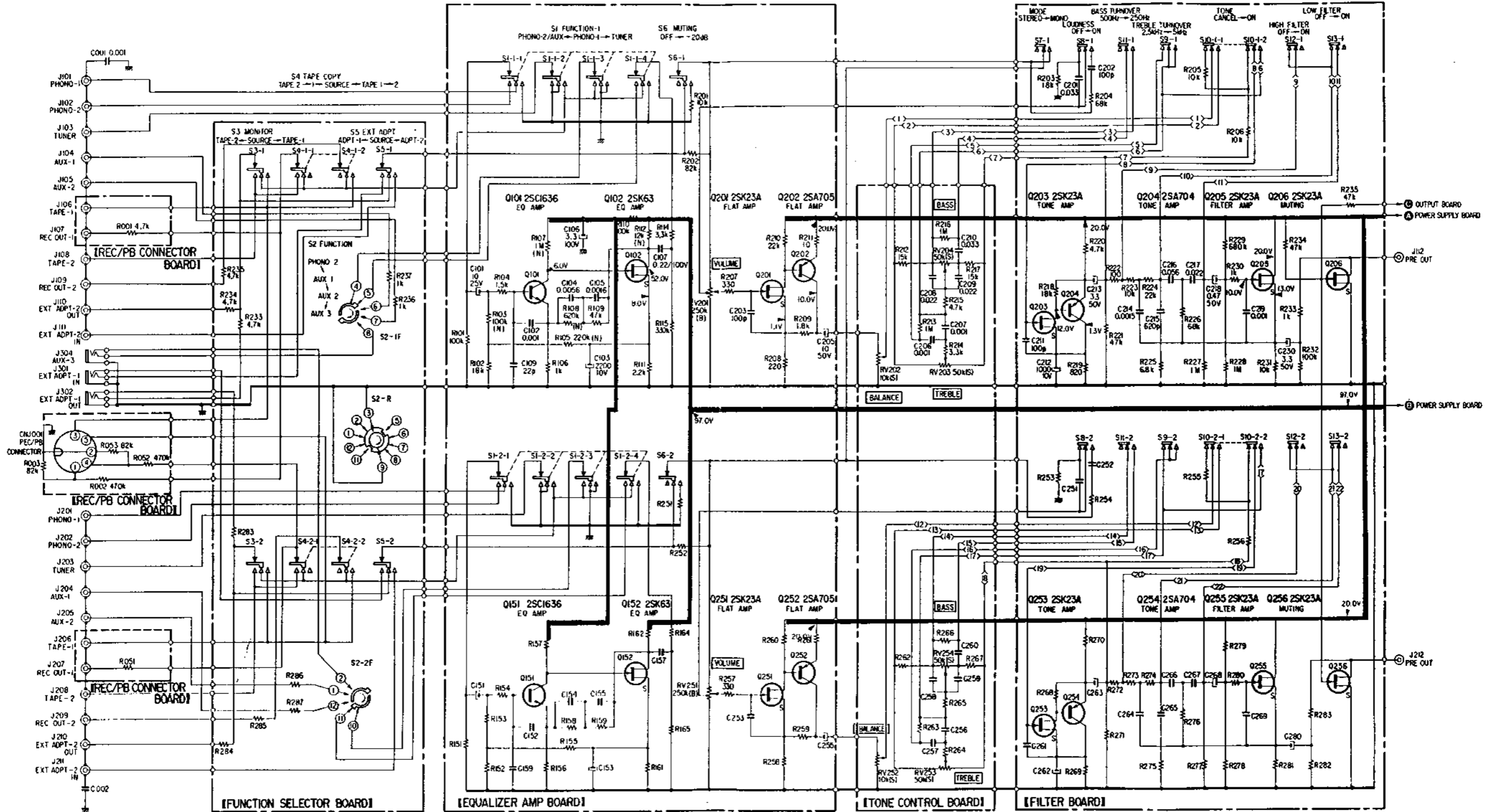
Q253 Q254 Q203  
Q255 Q205 Q204  
Q206 Q256

Q204, 254: 2SA704



3-6. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



- S1---FUNCTION (PHONO 1)
- S2---FUNCTION (PHONO 2)
- S3---MONITOR (SOURCE)
- S4---TAPE COPY (SOURCE)
- S5---EXT ADPT (SOURCE)
- S6---MUTING (OFF)
- S7---MODE (STEREO)
- S8---LOUDNESS (OFF)
- S9---TREBLE TURNOVER (2.5kHz)
- S10---TONE (CANCEL)
- S11---BASS TURNOVER (500Hz)
- S12---HIGH FILTER (OFF)
- S13---LOW FILTER (OFF)

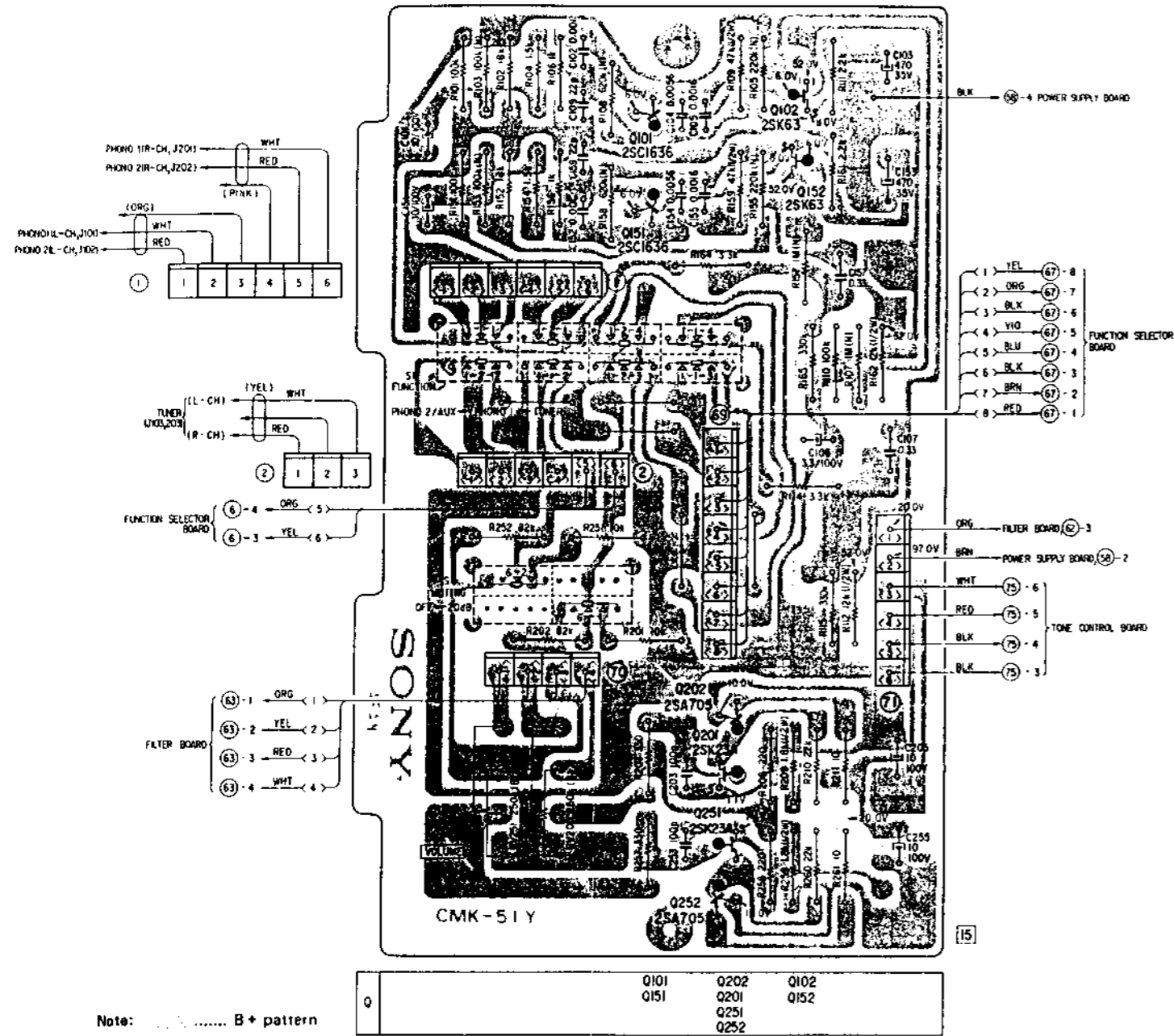
**Note:**  
All resistance values are in ohms. k = 1,000, M = 1,000k  
All capacitance values are in  $\mu$ F except as indicated with p, which means  $\mu$ F.  
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.  
Voltage variations may be noted due to normal production tolerances.

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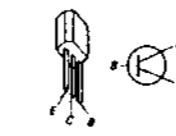
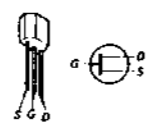
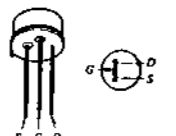
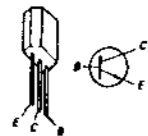
## 3-7. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



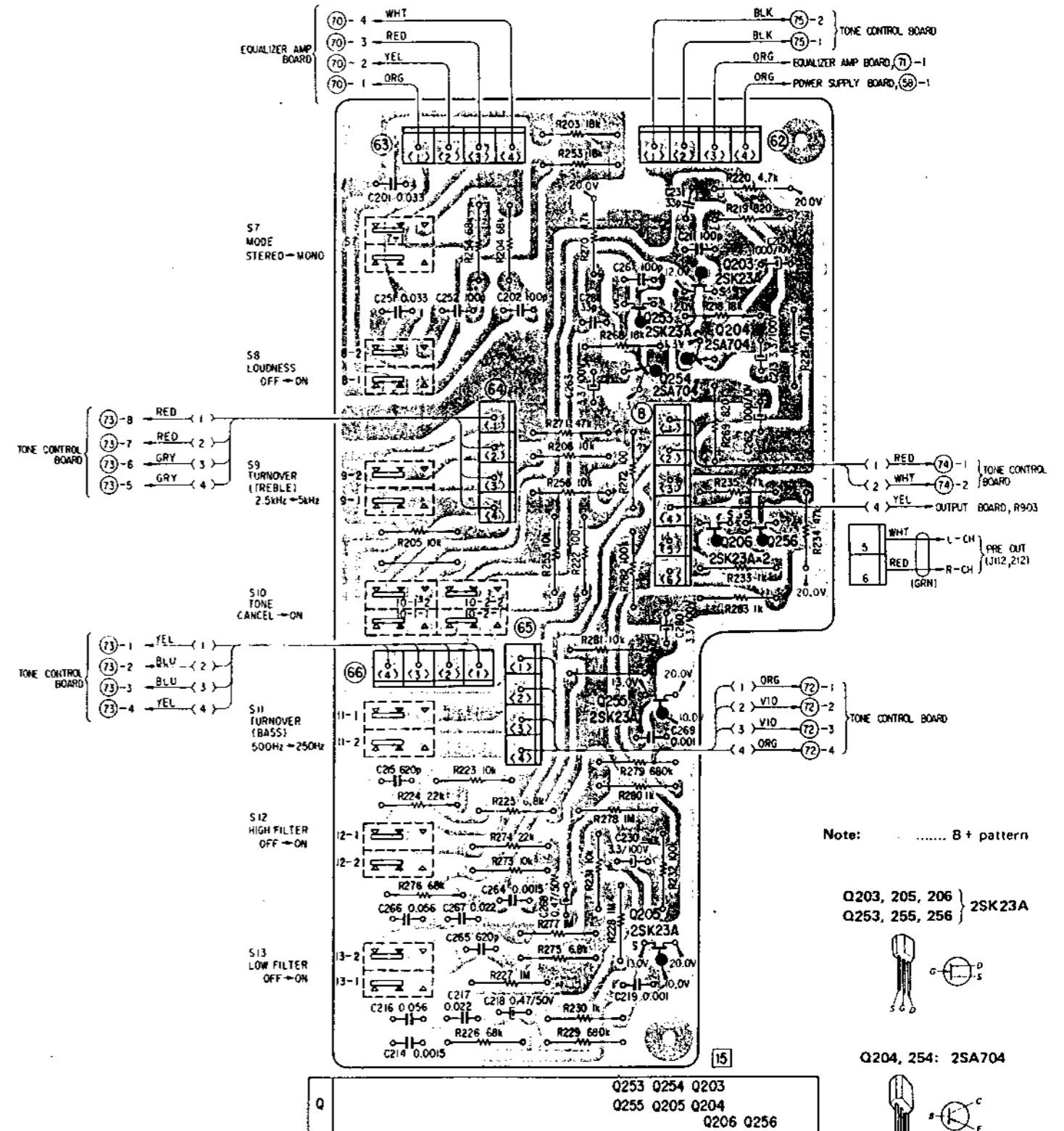
Q101, 151: 2SC1636    Q102, 152: 2SK63    Q201, 251: 2SK23A    Q202, 252: 2SA705



## 3-8. MOUNTING DIAGRAM - FILTER BOARD -

- Conductor Side -

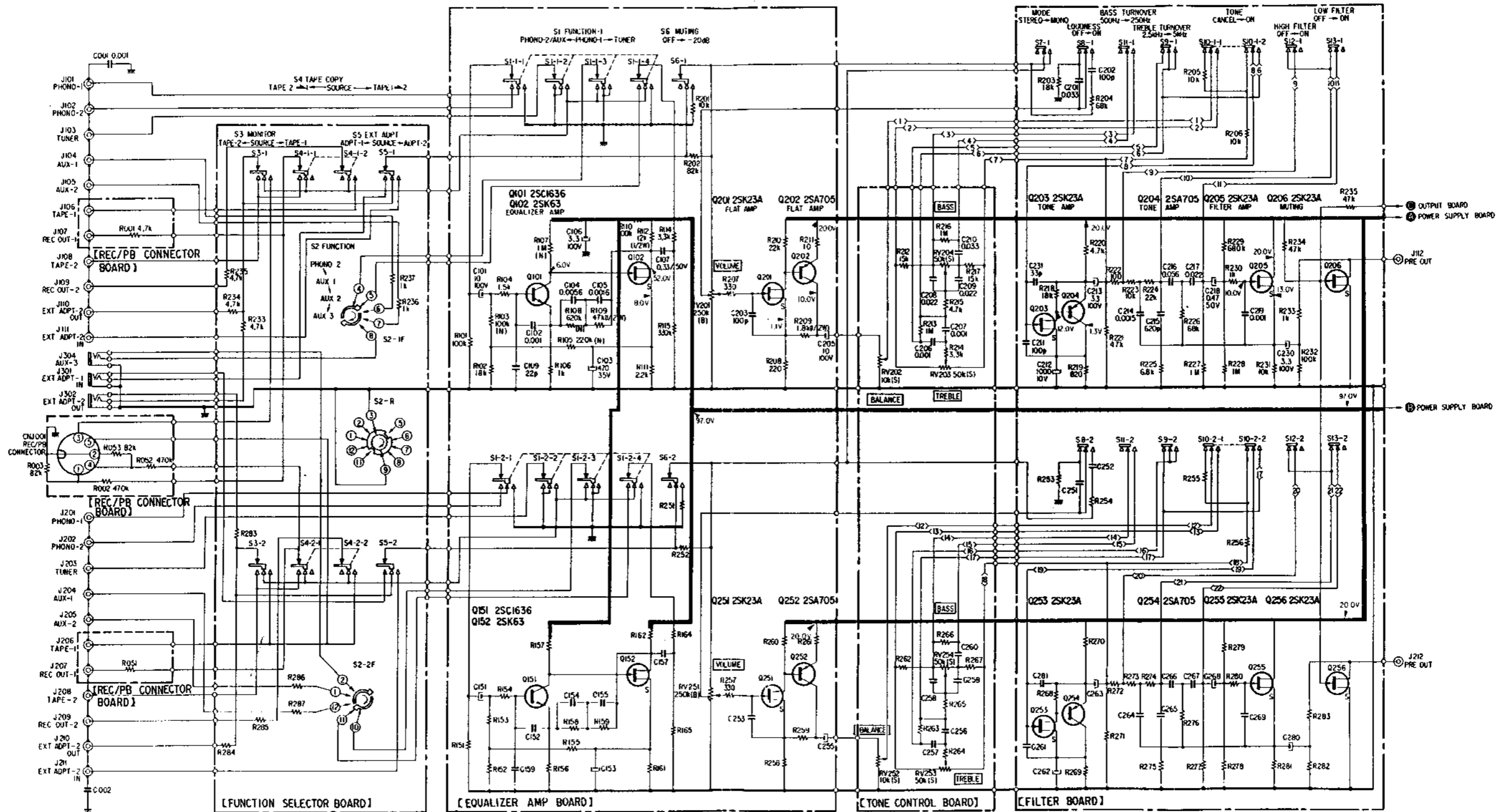
USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later





USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later

3.9. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -



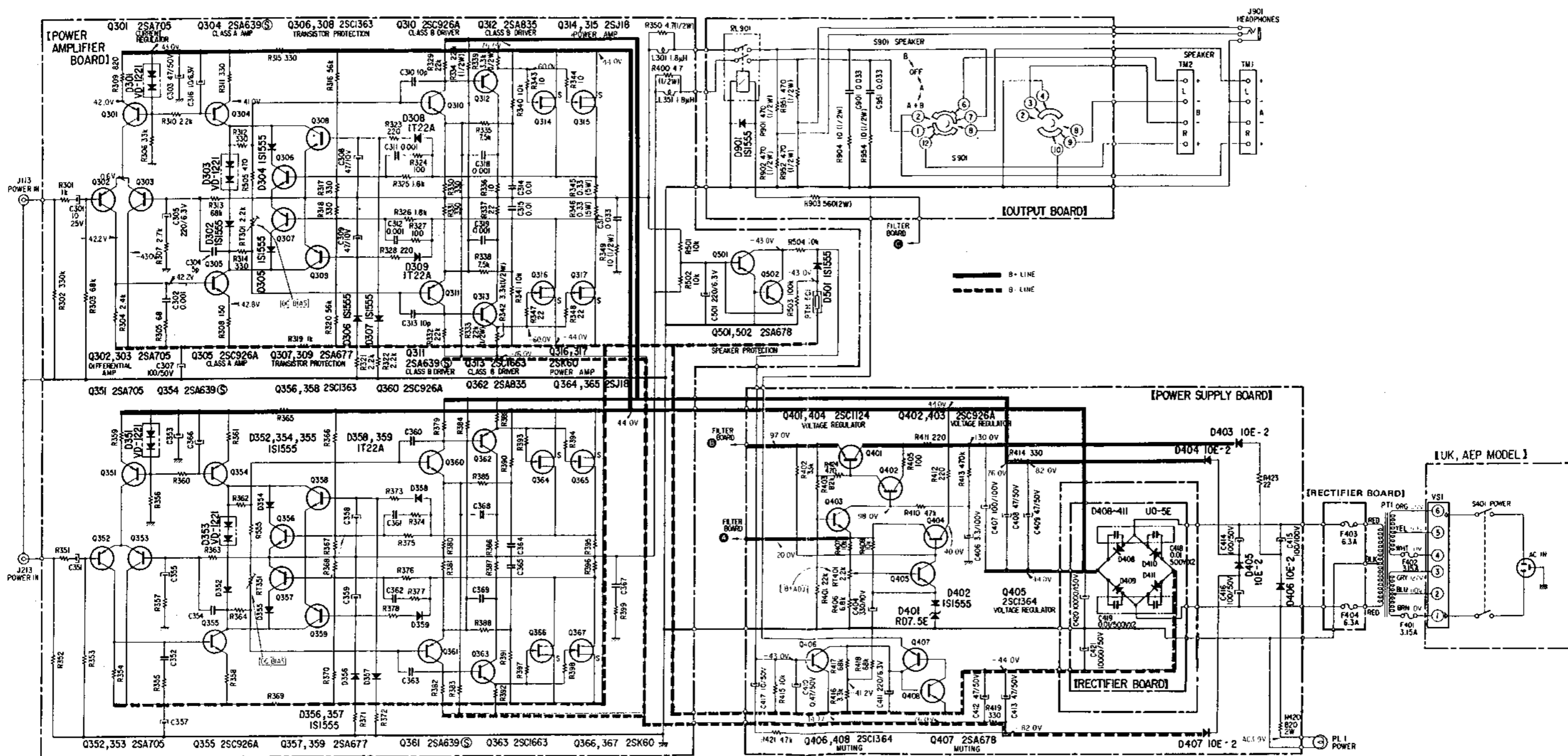
- S1---FUNCTION (PHONO 1)
- S2---FUNCTION (PHONO 2)
- S3---MONITOR (SOURCE)
- S4---TAPE COPY (SOURCE)
- S5---EXT ADPT (SOURCE)
- S6---MUTING (OFF)
- S7---MODE (STEREO)
- S8---LOUDNESS (OFF)
- S9---TREBLE TURNOVER (2.5kHz)
- S10---TONE (CANCEL)
- S11---BASS TURNOVER (500Hz)
- S12---HIGH FILTER (OFF)
- S13---LOW FILTER (OFF)

**Note:**  
 All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{F}$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations may be noted due to normal production tolerances.

# TA-5650 TA-5650

## 3-10. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

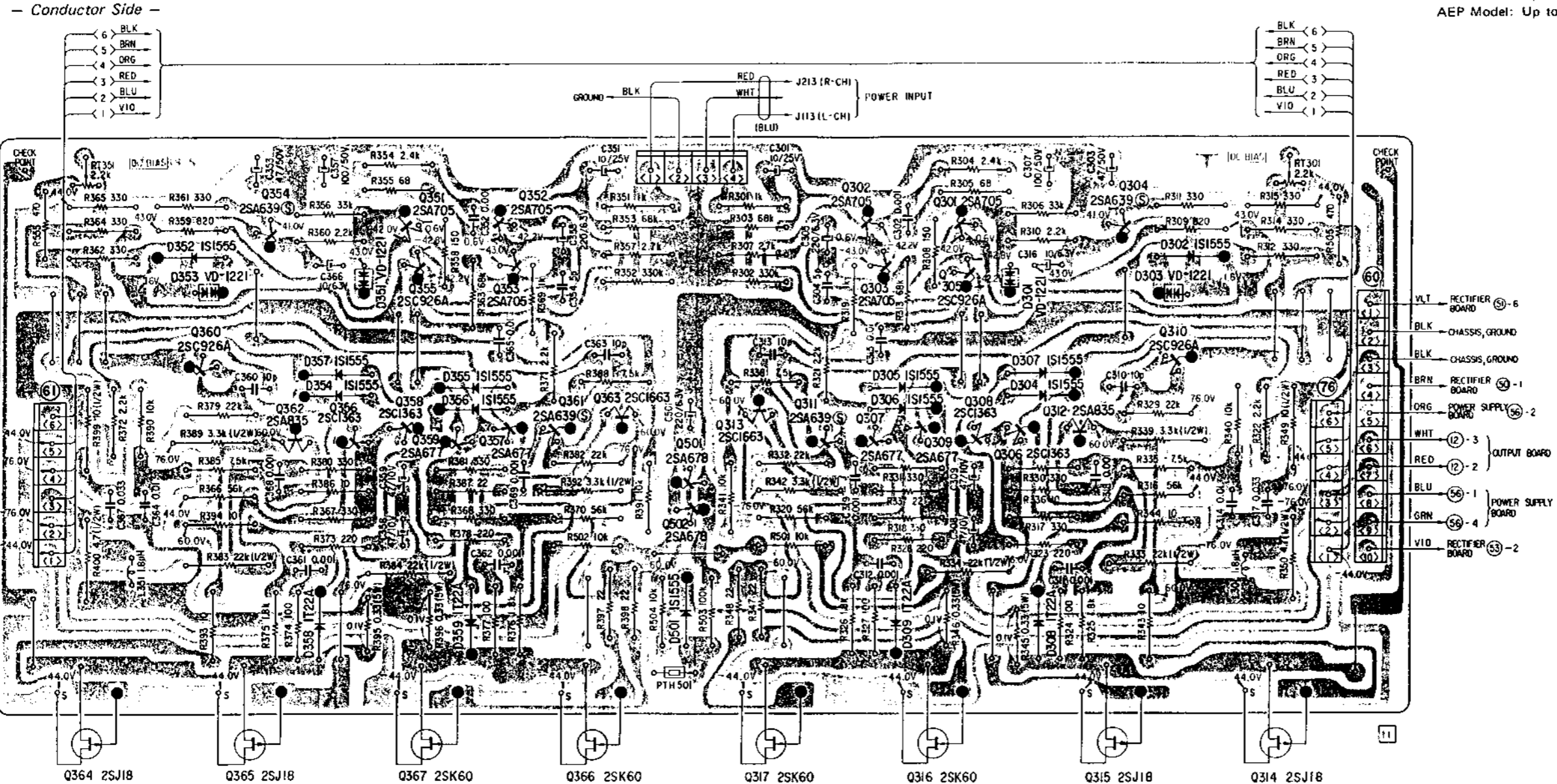
UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



**Note:**  
All resistance values are in ohms. k = 1,000, M = 1,000 k  
All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{pF}$ .  
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
Voltage variations may be noted due to normal production tolerances.

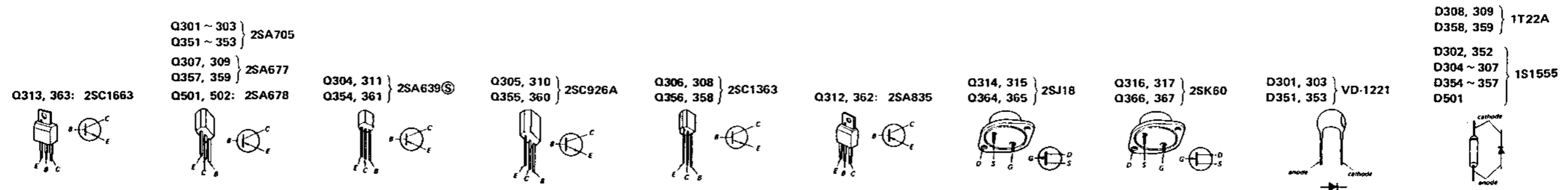
3-11. MOUNTING DIAGRAM - POWER AMPLIFIER BOARD -

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



Q364	Q365	Q354	Q351	Q352	Q302	Q301	Q304	Q310	Q
Q364	Q365	Q362	Q356	Q358	Q359	Q357	Q361	Q363	Q366
D352	D353	D357	D354	D358	D355	D356	D359	D501	
Q364	Q365	Q362	Q356	Q358	Q359	Q357	Q361	Q363	Q366
D352	D353	D357	D354	D358	D355	D356	D359	D501	
Q364	Q365	Q362	Q356	Q358	Q359	Q357	Q361	Q363	Q366
D352	D353	D357	D354	D358	D355	D356	D359	D501	

Note:  
 B + pattern  
 B - pattern

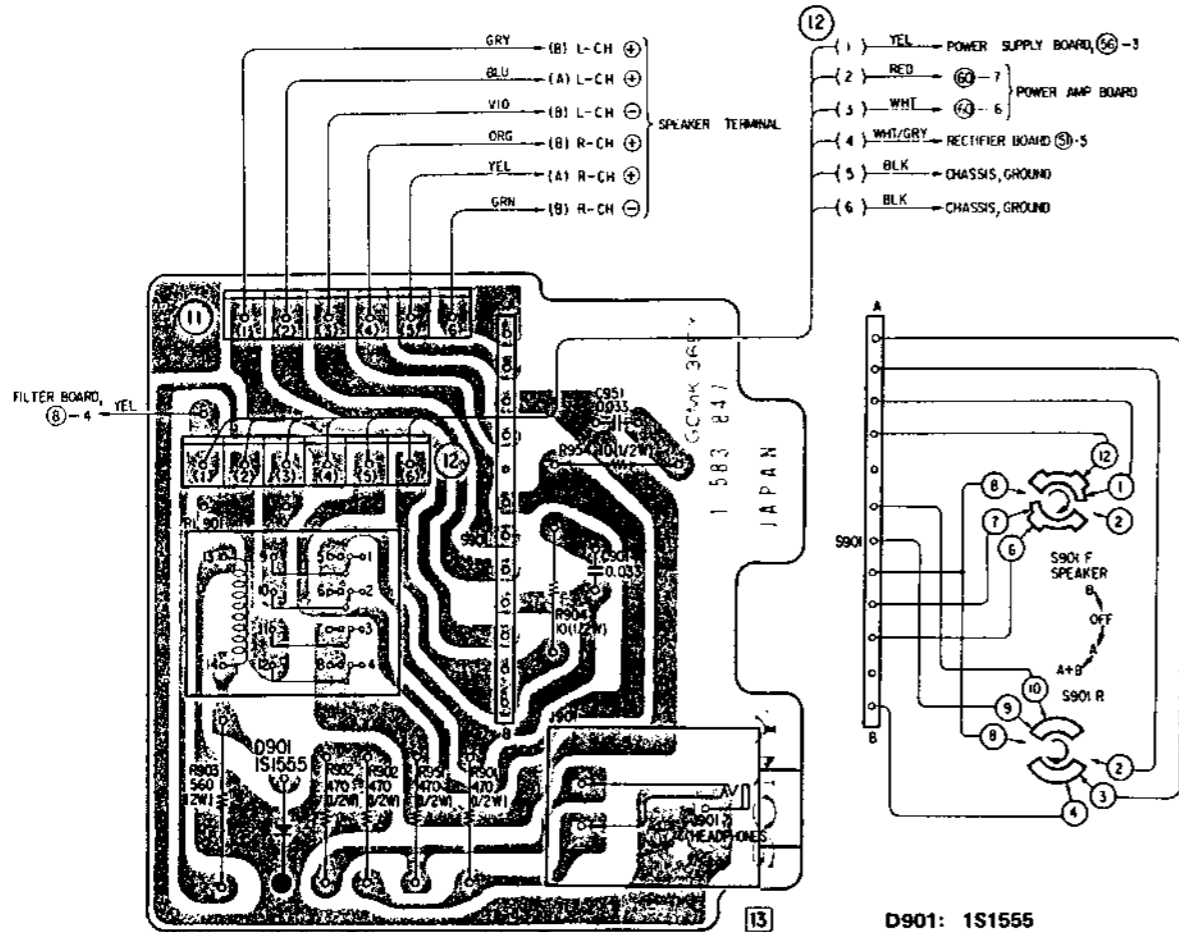


TA-5650 TA-5650

3-12. MOUNTING DIAGRAM - OUTPUT BOARD -

- Conductor Side -

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



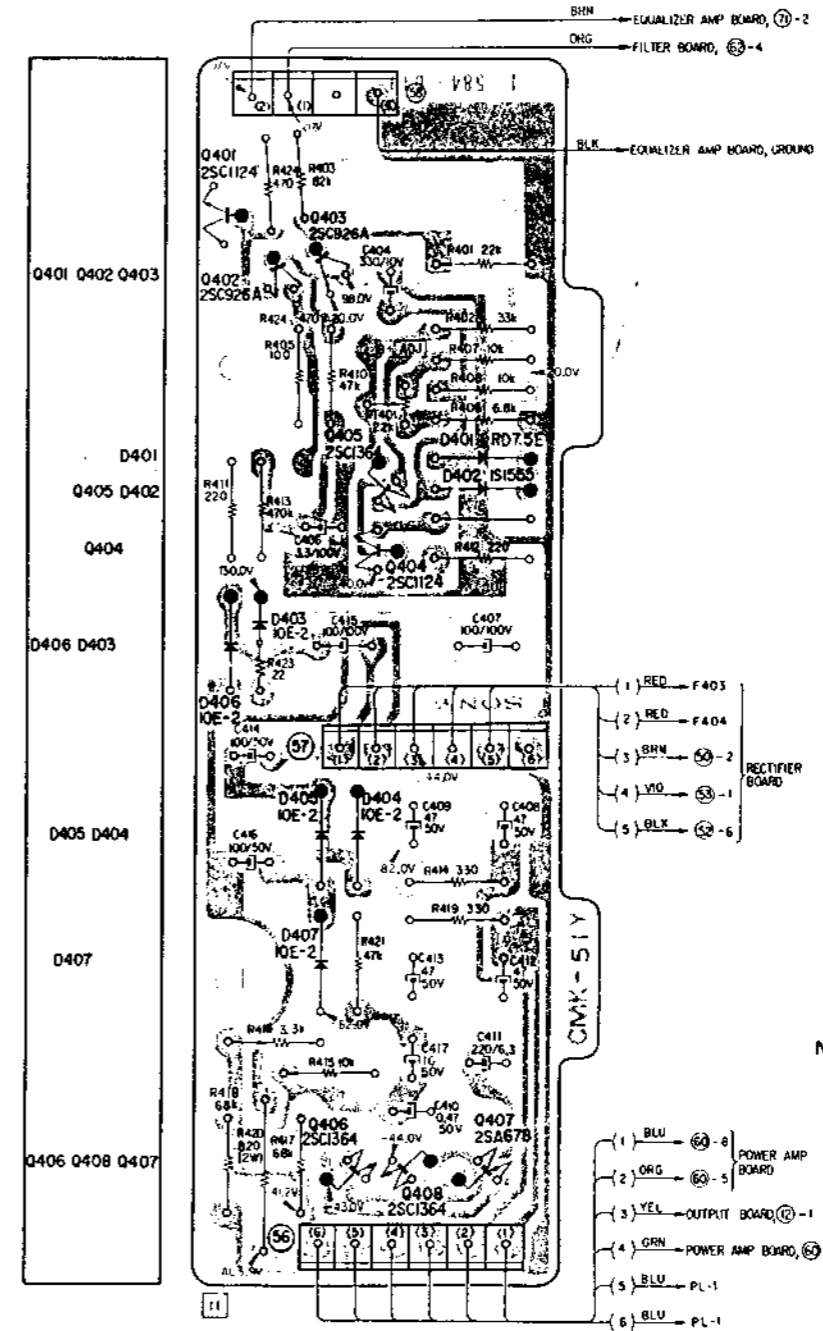
D901: 1S1555



3-13. MOUNTING DIAGRAM - POWER SUPPLY BOARD -

- Conductor Side -

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



Note:

..... B+ pattern  
..... B- pattern

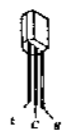
Q401, 404: 2SC1124



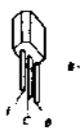
Q402, 403: 2SC926A



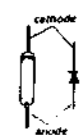
Q405, 406 } 2SC1364  
Q408



Q407: 2SA678

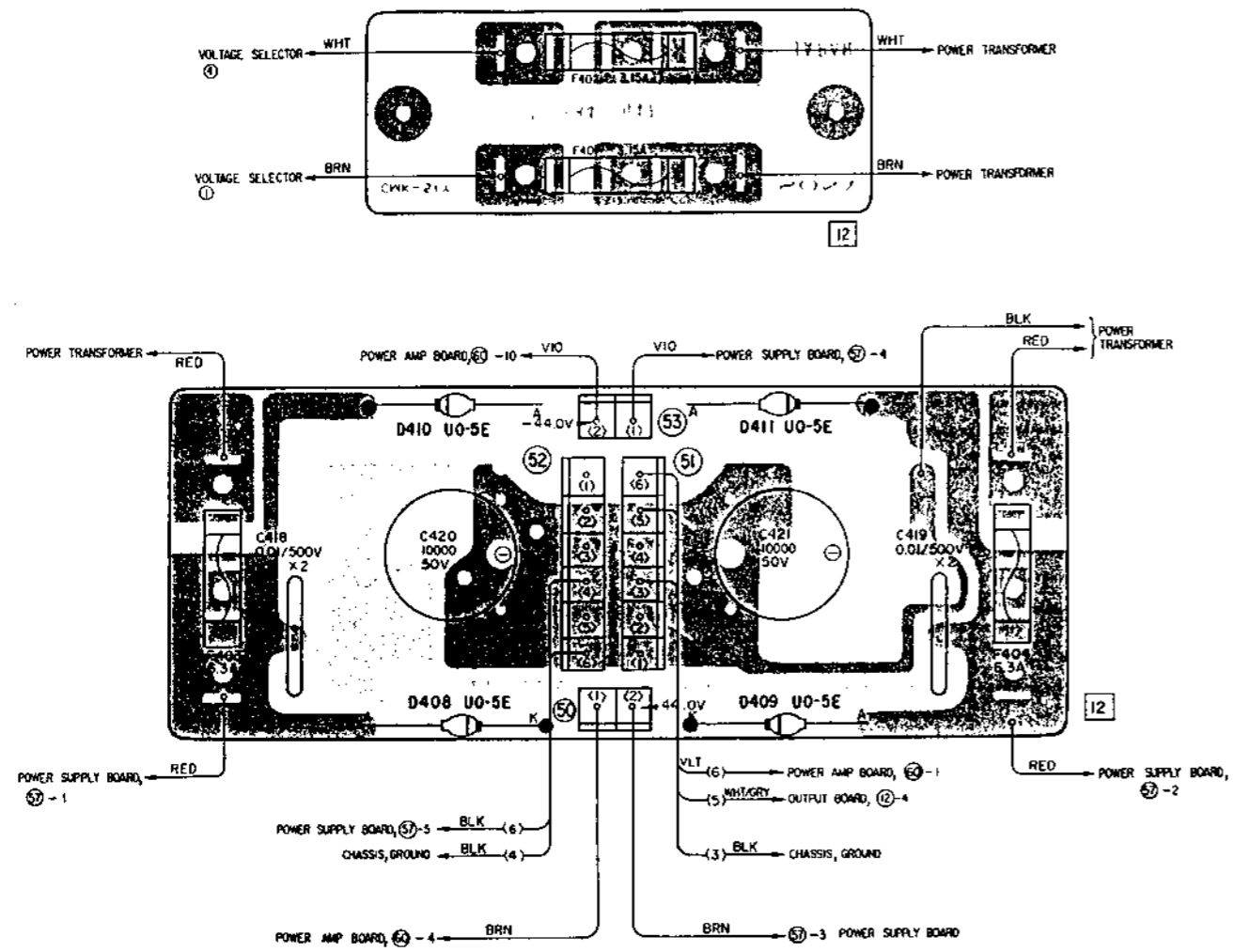


D401: RD-7.5E  
D402: 1S1555  
D403 ~ 407: 10E-2

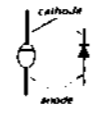


3-14. MOUNTING DIAGRAM - RECTIFIER/FUSE BOARDS -

- Component Side -



D408, 409 }  
D410, 411 } UO-5E



Note:

- ..... B+ pattern
- ..... B- pattern

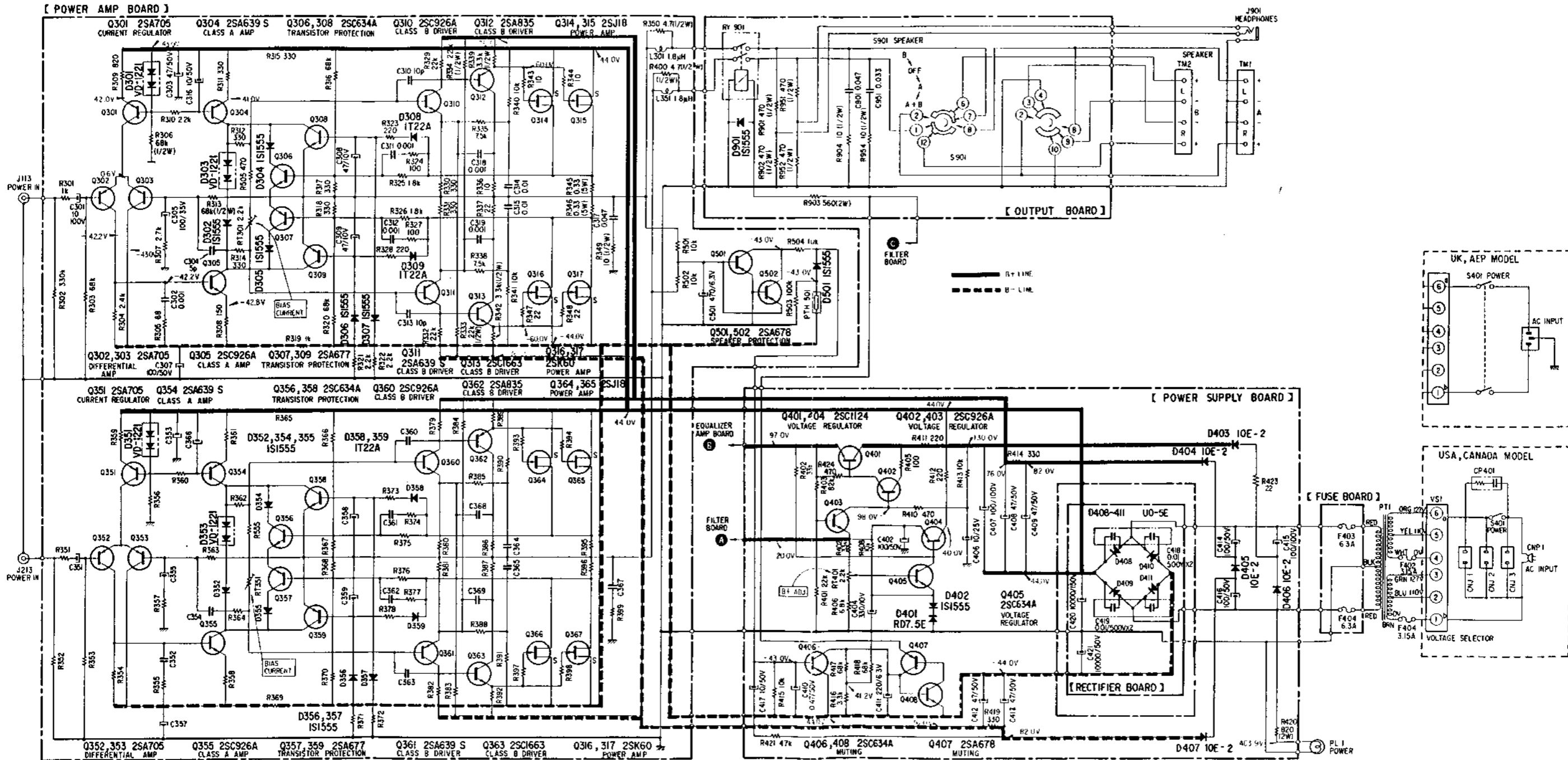
MEMO

A series of horizontal dashed lines for taking notes.

# TA-5650 TA-5650

3-15. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



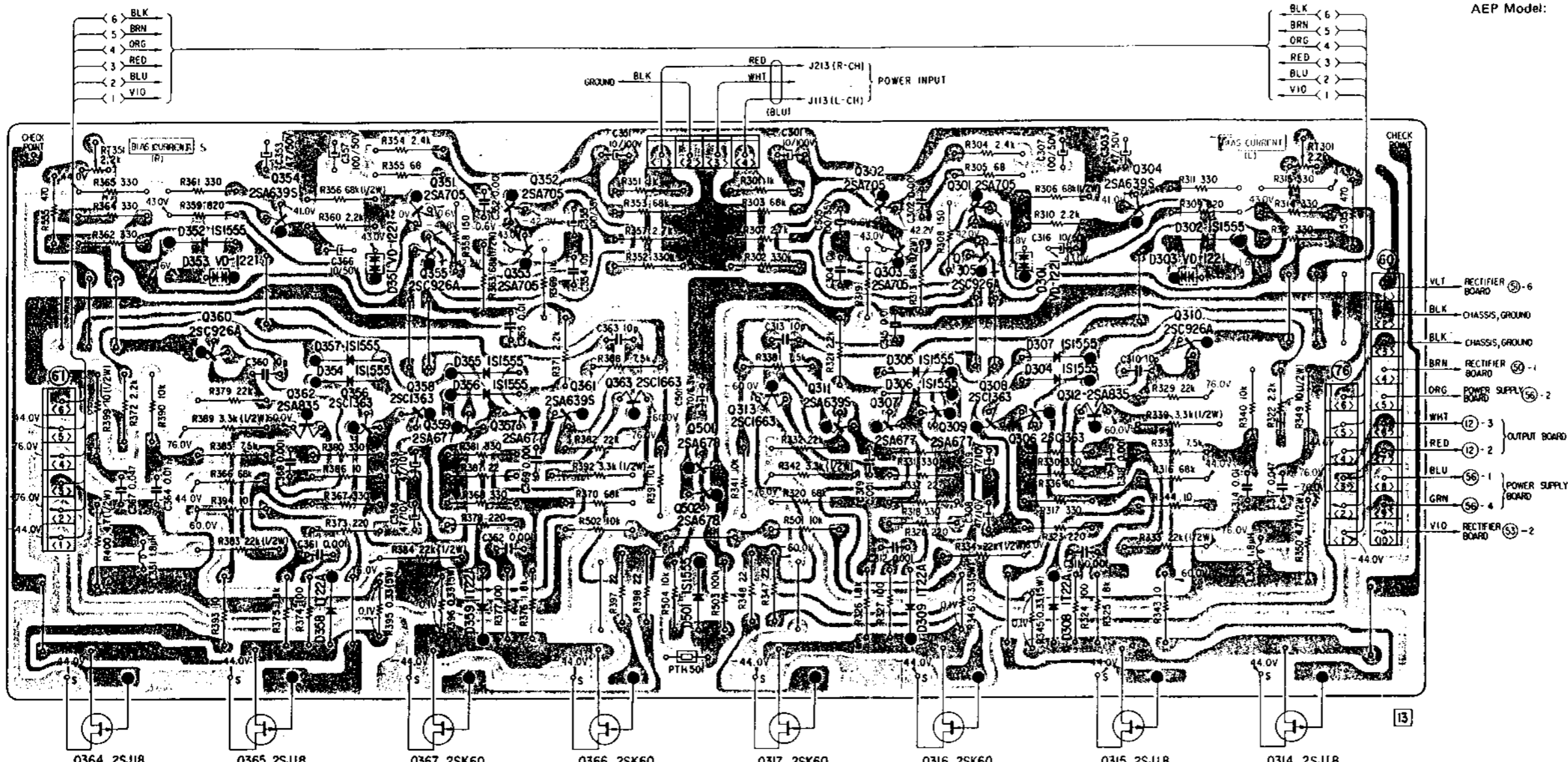
**Note:**  
 All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{pF}$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations may be noted due to normal production tolerances.



3-16. MOUNTING DIAGRAM -- POWER AMPLIFIER BOARD --

- Conductor Side -

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



Q364	Q365	Q367	Q366	Q317	Q316	Q315	Q314	Q
Q360	Q354	Q351	Q352	Q302	Q301	Q304	Q310	
Q362	Q355	Q353	Q359	Q303	Q305			
Q356	Q358	Q357	Q361	Q309	Q308	Q306	Q312	
Q358	Q359	Q366	Q501	Q313	Q311	Q307	Q315	Q314
				Q502	Q317	Q316		
D352	D351					D301		
D353	D357	D355				D307	D302	
	D354	D356				D304	D303	
	D358	D359		D501	D309	D308		

Q301 ~ 303 } 2SA705  
 Q351 ~ 353 } 2SA705  
 Q307, 309 } 2SA677  
 Q357, 359 } 2SA677  
 Q313, 363: 2SC1663  
 Q501, 502: 2SA678  
 Q304, 311 } 2SA639  
 Q354, 361 } 2SA639  
 Q305, 310 } 2SC926A  
 Q355, 360 } 2SC926A  
 Q306, 308 } 2SC1363  
 Q356, 358 } 2SC1363  
 Q312, 362: 2SA835  
 Q314, 315 } 2SJ18  
 Q364, 365 } 2SJ18  
 Q316, 317 } 2SK60  
 Q366, 367 } 2SK60  
 D301, 303 } VD-1221  
 D351, 353 } VD-1221  
 D308, 309 } 1T22A  
 D358, 359 } 1T22A  
 D302, 352 } 1S1555  
 D304 ~ 307 } 1S1555  
 D354 ~ 357 } 1S1555  
 D501 } 1S1555

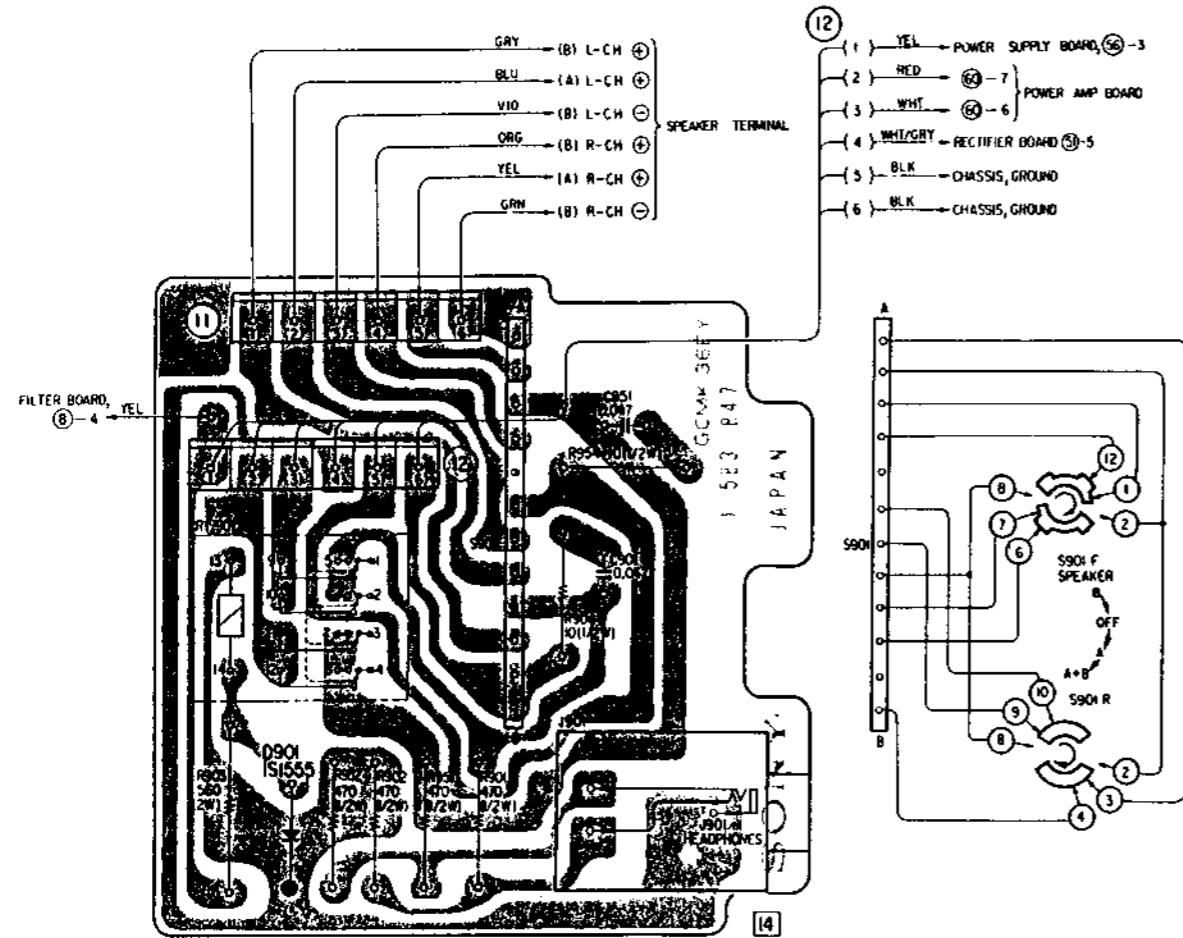
Note:  
 ..... B+ pattern  
 ..... B- pattern

# TA-5650 TA-5650

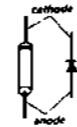
## 3-17. MOUNTING DIAGRAM - OUTPUT BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



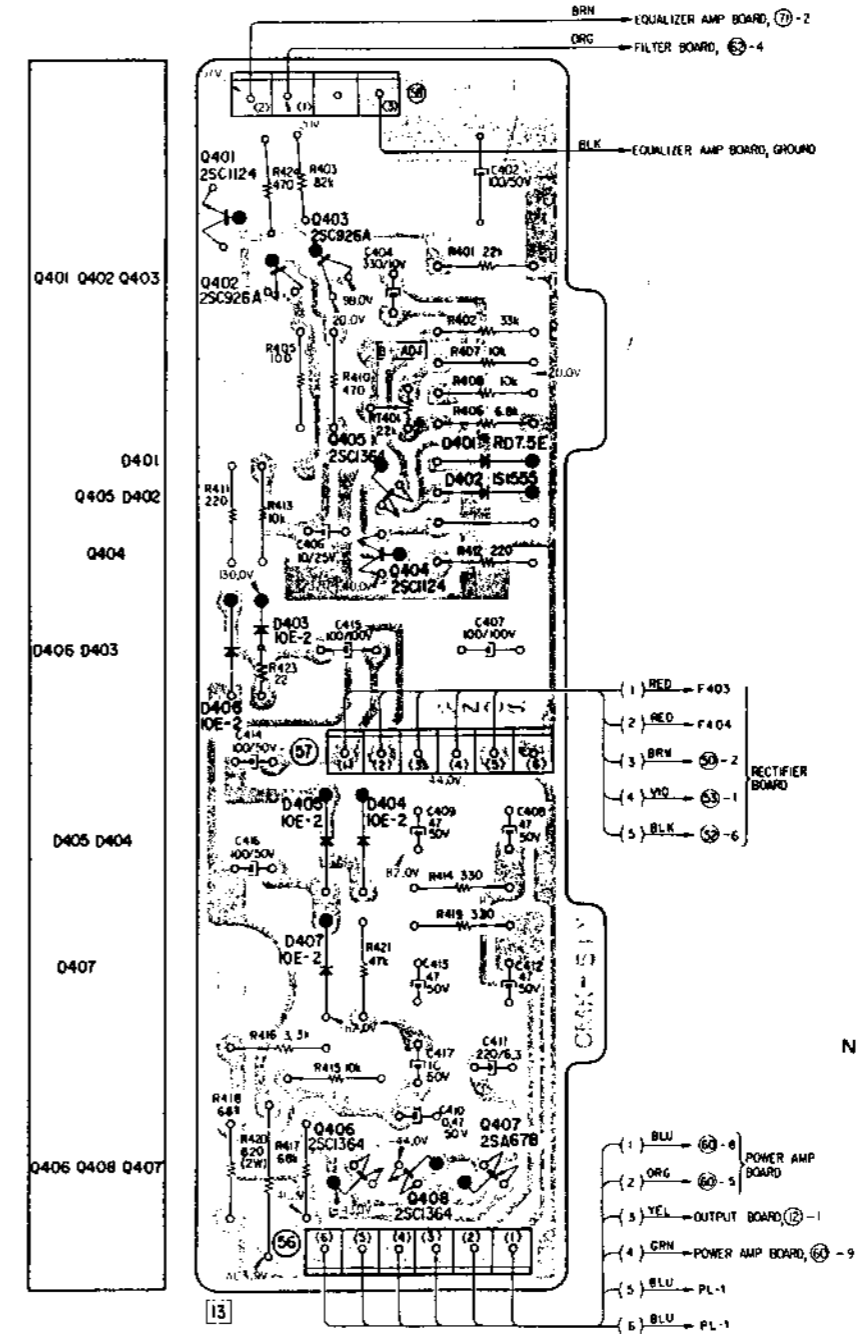
D901: 1S1555



## 3-18. MOUNTING DIAGRAM - POWER SUPPLY BOARD -

- Conductor Side -

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



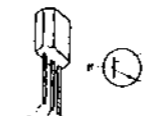
Note:

..... B + pattern  
 ..... B - pattern

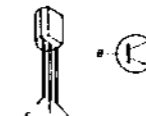
Q401, 404: 2SC1124



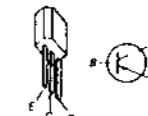
Q402, 403: 2SC926A



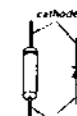
Q405, 406  
 Q408 } 2SC1364



Q407: 2SA678



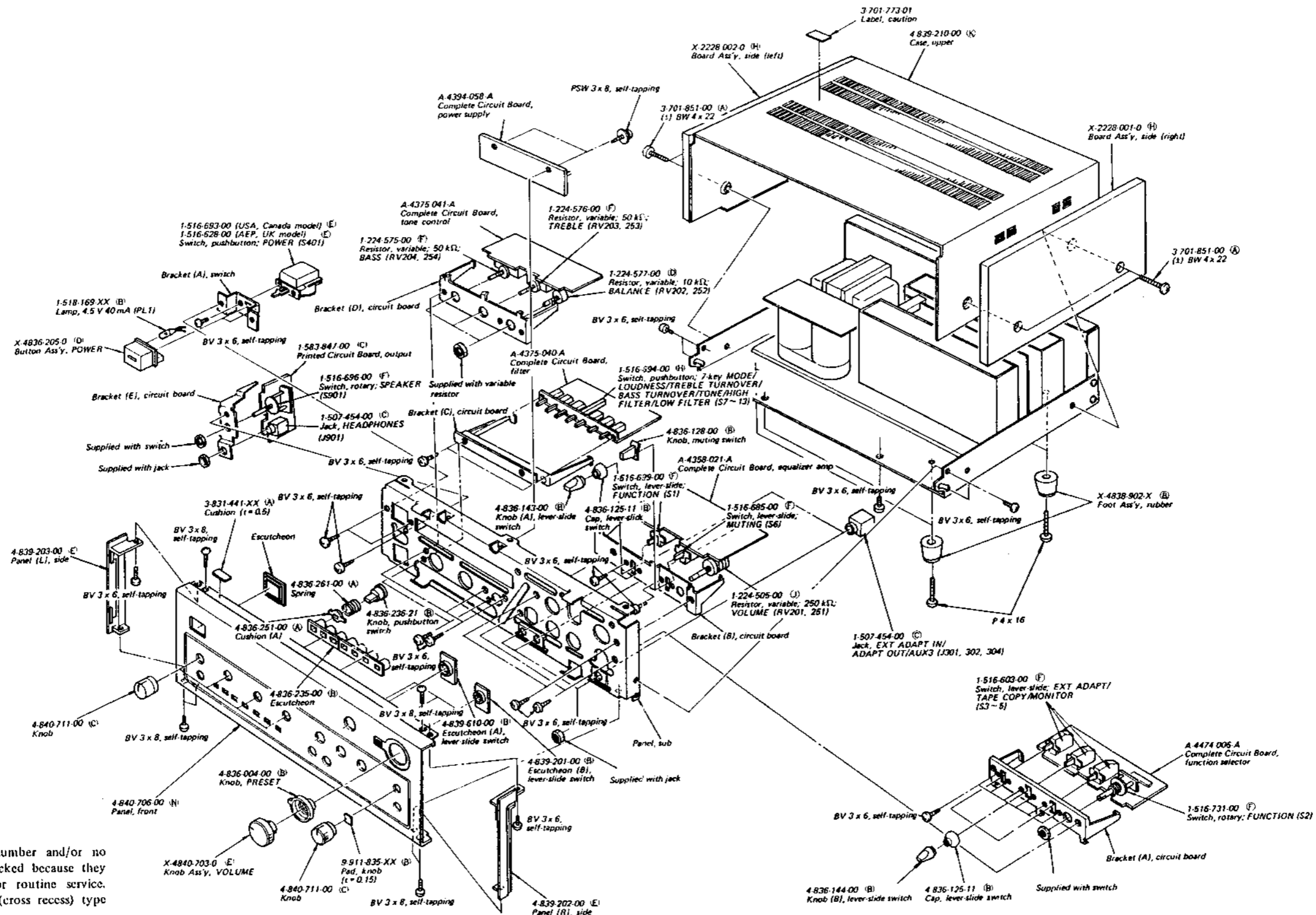
D401: RD-7.5E  
 D402: 1S1555  
 D403 ~ 407: 10E-2





SECTION 4  
EXPLODED VIEWS

(1)

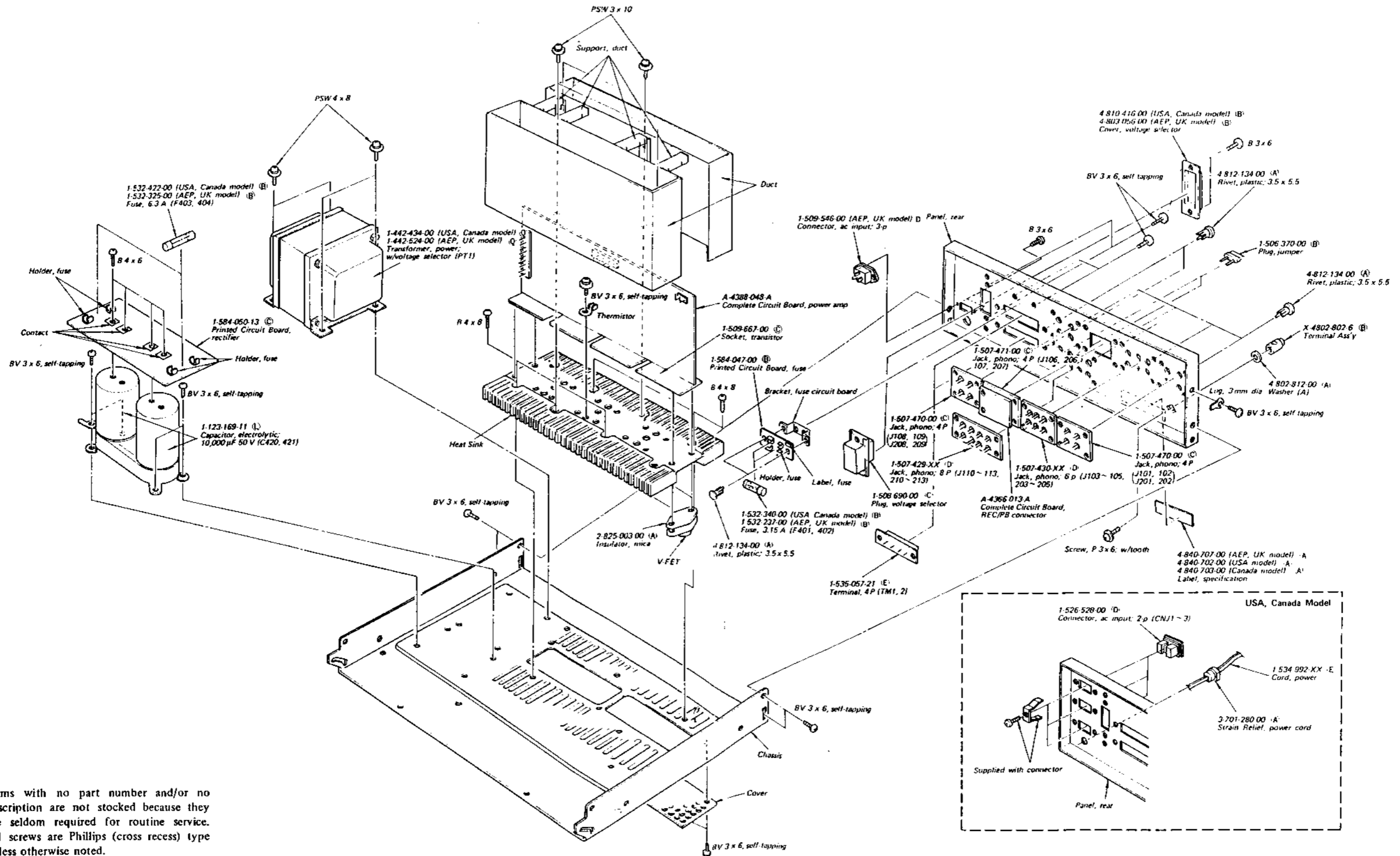


**Note:**

- 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
- The circled letters (A) to (Z) are applicable for European model only.

# TA-5650 TA-5650

(2)



**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
- The circled letters (A) to (Z) are applicable for European model only.

**SECTION 5  
ELECTRICAL PARTS LIST**

Note: The circled letters (A) to (Z) are applicable for European model only.

Mark	Applicable Serial No.
□	UK model: Up to Serial No. 600,350 AEP model: Up to Serial No. 501,900
•	USA model: Serial No. 800,001 and later Canada model: Serial No. 700,001 and later UK model: Serial No. 600,351 and later AEP model: Serial No. 501,901 and later

Ref. No.	Part No.	Description
<b>COMPLETE CIRCUIT BOARDS</b>		
A-4358-021-A		Equalizer Amp
A-4366-013-A		REC/PB Connector
A-4375-040-A		Filter
A-4375-041A		TONE Control
A-4388-048-A		Power Amp
A-4394-058-A		Power Supply
A-4474-006-A		Function Selector

**PRINTED CIRCUIT BOARDS**

1-583-847-00	Ⓒ	Output
1-584-047-00	Ⓑ	Fuse
1-584-050-13	Ⓒ	Rectifier

**SEMICONDUCTORS**

**Transistors**

Q101,151	Ⓑ	2SC1636
Q102,152	Ⓔ	2SK63
Q201,251	Ⓒ	2SK23A
Q202,252	Ⓒ	2SA705
Q203,253	Ⓒ	2SK23A
Q204,254	Ⓒ	2SA705
Q205,255 Q206,256	Ⓒ	2SK23A
Q301~303 Q351~353	Ⓒ	2SA705
Q304,354	Ⓒ	2SA639S
Q305,355	Ⓓ	2SC926A
Q306,356	Ⓑ	2SC1364
Q307,357	Ⓒ	2SA677
Q308,358	Ⓑ	2SC1364
Q309,359	Ⓒ	2SA677
Q310,360	Ⓓ	2SC926A
Q311,361	Ⓒ	2SA639S
Q312,362	Ⓔ	2SA835
Q313,363	Ⓓ	2SC1663

Ref. No.	Part No.	Description
Q314,364 Q315,365		Ⓖ 2SJ18
Q316,366 Q317,367		Ⓙ 2SK60
Q401		Ⓒ 2SC1124
Q402,403		Ⓓ 2SC926A
Q404		Ⓒ 2SC1124
Q405,406		Ⓑ 2SC1364
Q407		Ⓒ 2SA678
Q408		Ⓑ 2SC1364
Q501,502		Ⓒ 2SA678

**Diodes**

D301,351		Ⓑ VD1221
D302,352		Ⓑ 1S1555
D303,353		Ⓑ VD1221
D304~307 D354~357		Ⓒ 1S1555
D308,358 D309,359		Ⓑ 1T22A
D401		Ⓑ RD7.5E
D402		Ⓑ 1S1555
D403~407		Ⓑ 10E-2
D408~411		Ⓒ U05E
D501,901		Ⓑ 1S1555
PTH501	1-800-340-21	Ⓑ Thermistor (positive)

**COIL**

L301,351	1-407-592-00	Ⓐ Microinductor 1.8μH
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**TRANSFORMER**

PT1	1-442-434-00	Ⓖ Power (USA, Canada model)
PT1	1-442-524-00	Ⓖ Power (AEP, UK model)

Note: The circled letters (A) to (Z) are applicable for European model only.

Ref. No.	Part No.	Description
<b>CAPACITORS</b>		
All capacitors are in $\mu\text{F}$ and electrolytic type unless otherwise indicated.		
50 or less working volts are omitted except for electrolytic type. ( $p = \mu\text{F}$ )		
C001,002	1-102-074-11 (A)	0.001 ceramic
C101,151	□ 1-121-748-11 (A)	10 25V
	■ 1-121-126-11 (A)	10 100V
C102,152	1-108-227-12 (A)	0.001 mylar
C103,153	□ 1-121-659-11 (B)	2200 10V
	■ 1-121-361-11 (B)	470 35V
C104,154	1-103-743-11 (B)	0.0056 polystyrol
C105,155	1-103-730-11 (A)	0.0016 polystyrol
C106	1-121-995-11 (B)	3.3 100V
C107,157	□ 1-105-729-12 (A)	0.22 100V mylar
	■ 1-108-822-12 (A)	0.33 50V mylar
C109,159	1-102-967-11 (A)	22p ceramic
C201,251	1-108-591-12 (A)	0.033 mylar
C202,252	1-102-973-11 (A)	100p ceramic
C203,253		
C205,255	□ 1-123-051-11 (A)	10 50V
	■ 1-121-126-11 (A)	10 100V
C206,256	1-108-555-12 (A)	0.001 mylar
		C207,257
C208,258	1-108-587-12 (A)	0.022 mylar
		C209,259
C210,260	1-108-591-12 (A)	0.033 mylar
C211,261	1-102-973-11 (A)	100p ceramic
C212,262	1-121-736-11 (B)	1000 10V
C213,263	□ 1-121-914-11 (B)	3.3 50V
	■ 1-121-995-11 (B)	3.3 100V
C214,264	1-108-559-12 (A)	0.0015 mylar
C215,265	1-103-720-11 (A)	620p polystyrol
C216,266	1-108-597-12 (A)	0.056 mylar
C217,267	1-108-587-12 (A)	0.022 mylar
C218,268	1-121-911-11 (A)	0.47 50V
C219,269	1-108-227-12 (A)	0.001 mylar
C230,280	□ 1-121-914-11 (B)	3.3 50V
	■ 1-121-995-11 (B)	3.3 100V
C231,281	1-102-963-11 (A)	33p ceramic

Ref. No.	Part No.	Description
C301,351	□ 1-121-748-11 (A)	10 25V
	■ 1-121-126-11 (A)	10 100V
C302,352	1-108-227-12 (A)	0.001 mylar
C303,353	1-123-058-11 (A)	47 50V
C304,354	1-102-807-11 (A)	5p ceramic
C305,355	□ 1-121-419-11 (B)	220 6.3V
	■ 1-121-357-11 (B)	100 35V
C307,357	1-123-059-11 (B)	100 50V
C308,358	1-121-927-11 (B)	47 10V
		C309,359
C310,360	1-102-947-11 (A)	10p ceramic
C311,361	1-108-227-12 (A)	0.001 mylar
C312,362		
C313,363	1-102-947-11 (A)	10p ceramic
C314,364	1-108-239-12 (A)	0.01 mylar
		C315,365
C316,366	□ 1-121-469-11 (A)	10 6.3V
	■ 1-121-738-11 (A)	10 50V
C317,367	□ 1-108-244-12 (A)	0.033 mylar
	■ 1-108-868-12 (A)	0.047 mylar
C318,368	1-108-227-12 (A)	0.001 mylar
		C319,369
C402	■ 1-121-417-11 (B)	100 50V
C404	1-121-805-11 (B)	330 10V
C406	□ 1-121-995-11 (A)	3.3 100V
	■ 1-121-398-11 (A)	10 25V
C407	1-123-084-11 (C)	100 100V
C408,409	1-123-058-11 (B)	47 50V
C410	1-121-726-11 (A)	0.47 50V
C411	1-121-419-11 (A)	220 6.3V
C412,413	1-123-058-11 (B)	47 50V
C414	1-123-059-11 (B)	100 50V
C415	1-123-084-11 (C)	100 100V
C416	1-123-059-11 (B)	100 50V
C417	1-121-738-11 (A)	10 50V
C418,419	1-102-355-11 (A)	0.01 500V ceramic
C420,421	1-123-169-11 (L)	10000 50V
C501	□ 1-121-419-11 (B)	220 6.3V
	■ 1-123-077-11 (B)	470 6.3V
C901,951	□ 1-108-244-12 (A)	0.033 mylar
	■ 1-108-868-12 (A)	0.047 mylar

Note: The circled letters (A to Z) are applicable for European model only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
<b>RESISTORS</b>		
All resistors are in ohms. Regular type ± 5%, 1/4W carbon and composition resistors are omitted. Check the schematic diagram for the resistance values. (k = 1000, M = 1000 k)		
R109,159	■ 1-244-913-11	(A) 47 k 1/2W carbon
R112,162	■ 1-244-899-11	(A) 12 k 1/2W carbon
R209,259	■ 1-244-879-11	(A) 1.8 k 1/2W carbon
R306,356	■ 1-244-917-11	(A) 68 k 1/2W carbon
R313,363	■ 1-244-917-11	(A) 68 k 1/2W carbon
R333,383 R334,384	1-244-905-11	(A) 22 k 1/2W carbon
R339,389 R342,392	1-211-650-11	(A) 3.3 k 1/2W carbon
R345,395 R346,396	1-217-157-11	(A) 0.33 5W wire-wound
R349,399	1-211-590-11	(A) 10 1/2W carbon
R350,450	1-244-817-11	(A) 4.7 1/2W carbon
R420	1-206-662-11	(A) 820 2W metal oxide
R901,951 R902,952	1-244-865-11	(A) 470 1/2W carbon
R903	1-206-658-11	(A) 560 2W metal oxide
R904,905	1-211-590-11	(A) 10 1/2W carbon
RT301,351	1-224-489-00	(B) 2.2 k adjustable
RT401	1-224-250-XX	(C) 2.2 k adjustable
RV201,251	1-224-505-00	(J) 250 k variable; VOLUME
RV202,252	1-224-577-00	(D) 10 k variable; BALANCE
RV203,253	1-224-576-00	(E) 50 k variable; TREBLE
RV204,254	1-224-575-00	(E) 50 k variable; BASS
<b>SWITCHES</b>		
S1	1-516-699-00	(E) Lever-slide, FUNCTION
S2	1-516-731-00	(E) Rotary, FUNCTION
S3~5	1-516-603-00	(E) Lever-slide, EXT ADAPT. TAPE COPY, MONITOR
S6	1-516-685-00	(E) Lever-slide, MUTING

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
S7~13	1-516-694-00	(H) Push, 7-key: MODE, LOUDNESS, TREBLE TURNOVER, BASS TURNOVER, TONE, HIGH FILTER, LOW FILTER
S401	1-516-628-00 1-516-693-00	(E) Pushbutton, POWER (AEP, UK model) (E) Pushbutton, POWER (USA, Canada model)
S901	1-516-696-00	(E) Rotary, SPEAKER
<b>JACKS</b>		
CNJ001	1-509-549-00	(B) Connector, REC/PB
CNJ1~3	1-526-528-00	(D) Connector, ac; 2-p (USA, Canada model)
	1-509-546-00	(D) Connector, ac; 3-p (AEP, UK model)
J101,201 J102,202	1-507-470-00	(C) Phono, 4-p; PHONO 1, 2
J103~105 J203~205	1-507-430-XX	(D) Phono, 6-p; TUNER, AUX 1, 2
J106,206 J107,207	1-507-471-00	(C) Phono, 4-p; TAPE 1, REC OUT 1
J108,208 J109,209	1-507-470-00	(C) Phono, 4-p; TAPE 2, REC OUT 2
J110~113 J210~213	1-507-429-XX	(D) Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN
J301,302 J304	1-507-454-00	(C) EXT ADAPT IN, ADAPT OUT, AUX 3
J901	1-507-454-00	(C) HEADPHONES
<b>MISCELLANEOUS</b>		
CP401	1-231-057-31	(B) Encapsulated Component (USA, Canada model)
F401,402	1-532-340-00 1-532-237-00	(B) Fuse, 3.15A (USA, Canada model) (B) Fuse, 3.15A (AEP, UK model)
F403,404	1-532-325-00 1-532-422-00	(B) Fuse, 6.3A (AEP, UK model) (B) Fuse, 6.3A (USA, Canada model)
PL1	1-518-169-XX	(B) Lamp, 4.5V 40mA
RY901	1-515-257-00	(H) Relay

Note: The circled letters (A) to (Z) are applicable for European model only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TM1,2	1-535-057-21	(E) Terminal, 4-p
	1-506-370-00	(B) Plug, jumper
	1-508-690-00	(C) Plug, voltage selector
	1-509-667-00	(C) Socket, transistor
	1-534-992-XX	(E) Cord, power (USA, Canada model)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
<b>ACCESSORIES</b>		
	1-506-113-00	(A) Plug, short
	1-534-819-11	(E) Cord, power (UK model)
	1-534-754-12	(E) Cord, power (E model)
	3-780-566-11	(F) Manual, instruction (Canada, UK and AEP model)
	3-780-566-21	(E) Manual, instruction (USA model)
	3-793-520-82	(A) Card, guaranty (UK model)

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