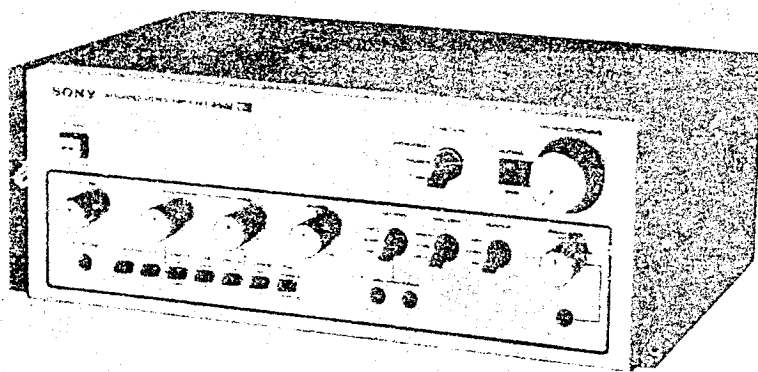


# TA-5650

US Model  
 Canadian Model  
 UK Model  
 AEP Model



P691626

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 (US, Canadian Model)  
 110, 127, 220 or 240 V ac adjustable, 50/60 Hz (UK and AEP Model)

**Power Consumption:** 160 W (US Model)  
 320 VA (Canadian Model)  
 440 W (UK, AEP Model)

**Dimensions:** Approx. 460(w) x 168(h) x 323(d) mm  
 18<sup>1</sup>/<sub>8</sub>(w) x 6<sup>5</sup>/<sub>8</sub>(h) x 12<sup>3</sup>/<sub>4</sub>(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:** 2 Hz - 100 kHz  $\pm$  0 dB  
 (at 1 W output):

**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

- continued on page 2 -

#### 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

THE QUALITY OF THIS MANUAL IS THE BEST THAT IS AVAILABLE

# SONY

## 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  $\pm 0$  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 <sup>1</sup> )
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:**

**US Model**

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

**Canadian Model**

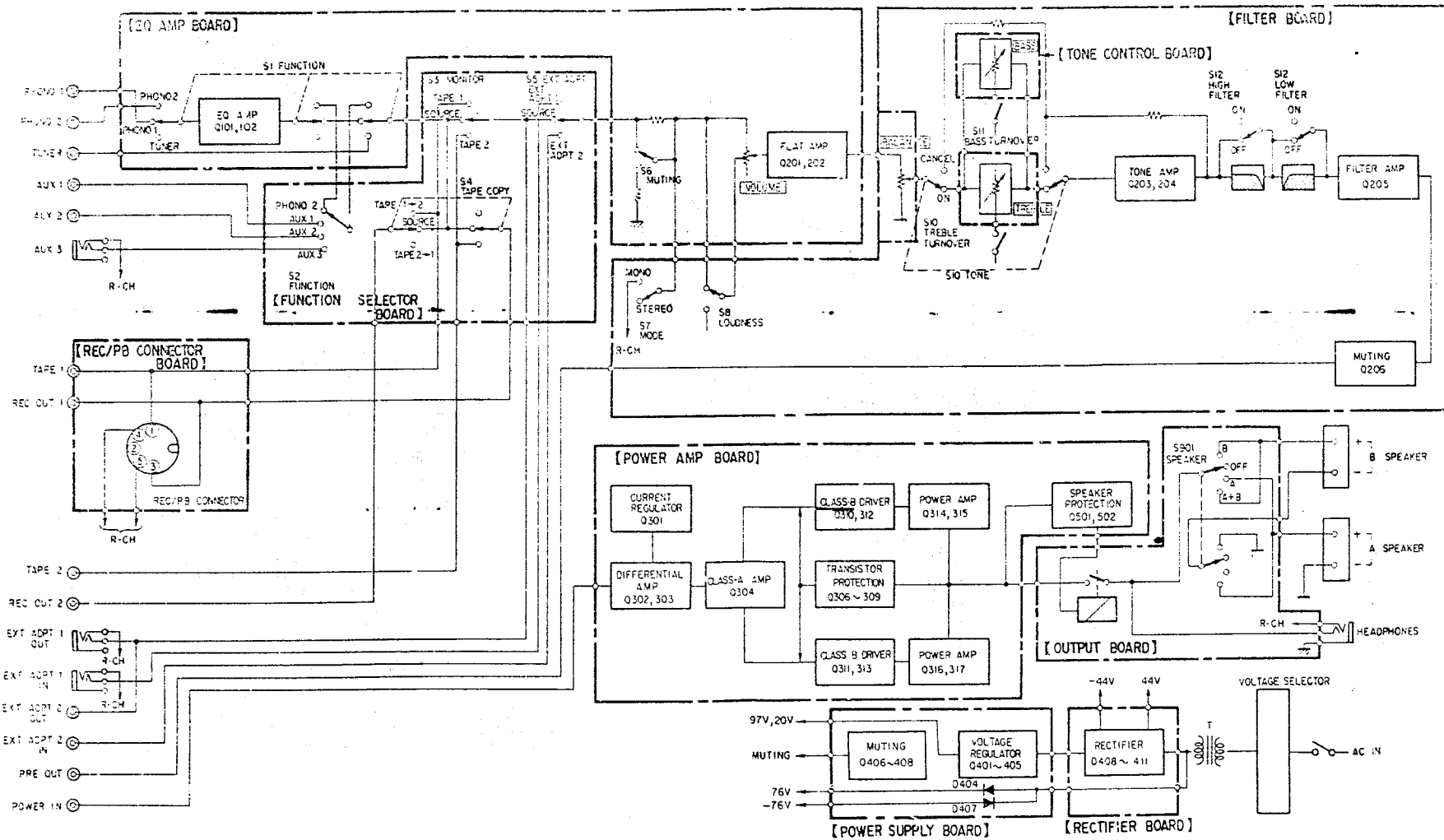
<b>SONY</b> <sup>®</sup>	INTEGRATED STEREO AMPLIFIER
	MODEL NO. TA-5650 AC 120V 60Hz 320VA SERIAL NO. _____ MADE IN JAPAN

**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

Notes: Turn the power switch on and allow about five minutes for warmup time.

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

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

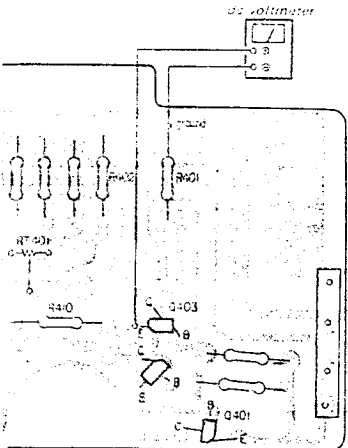


Fig. 2-1. 20 V power voltage adjustment

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

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

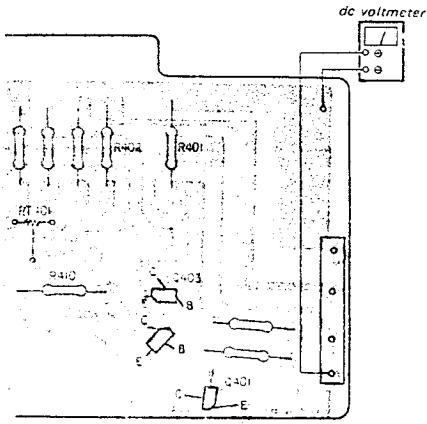


Fig. 2-2. 97 V power voltage confirmation

### 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  $\pm$  50 mV.

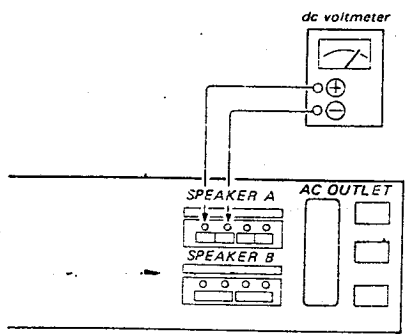


Fig. 2-3. Confirmation of dc balance voltage

### 2-4. DC BIAS ADJUSTMENT

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

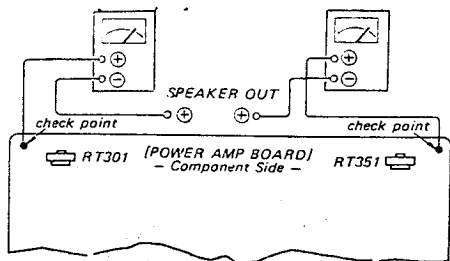


Fig. 2-4. DC bias adjustment

## 2-5. CHASSIS LAYOUT

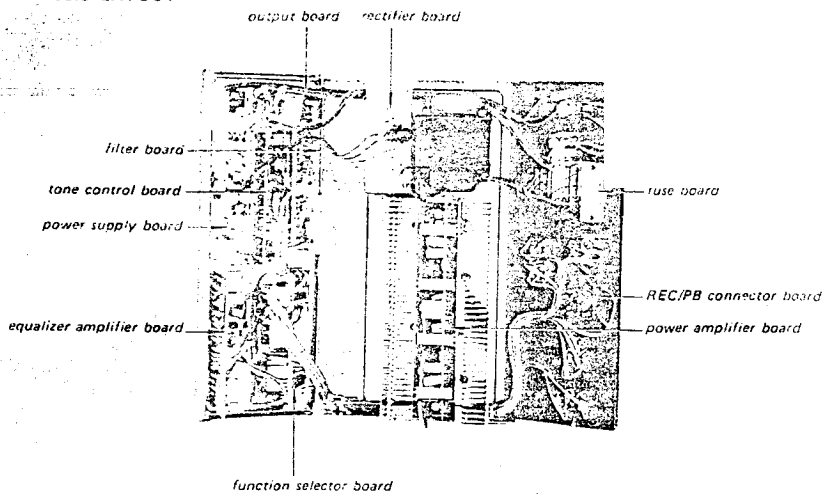
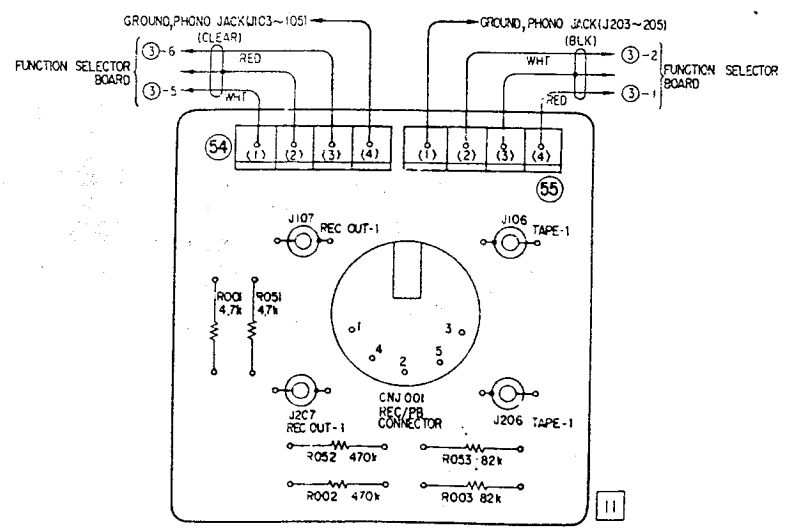


Fig. 2-5. Chassis layout

## SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

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

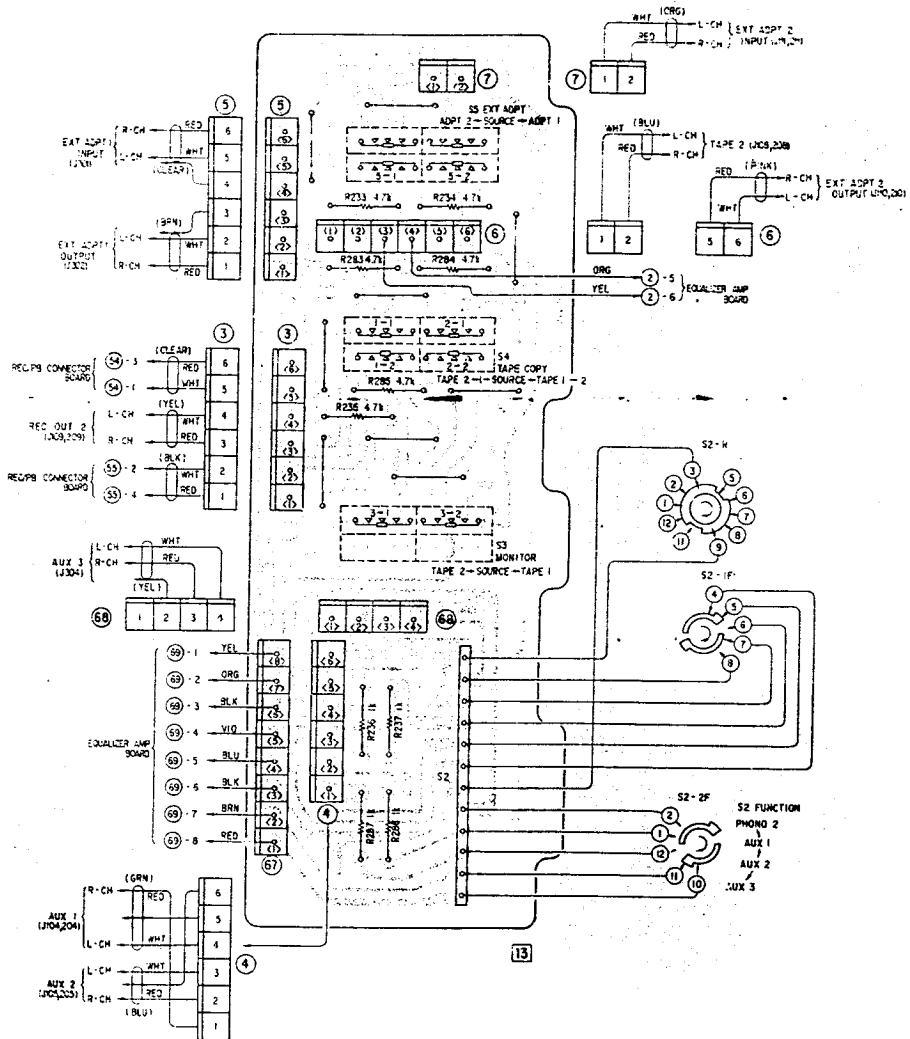
- Conductor Side -



11

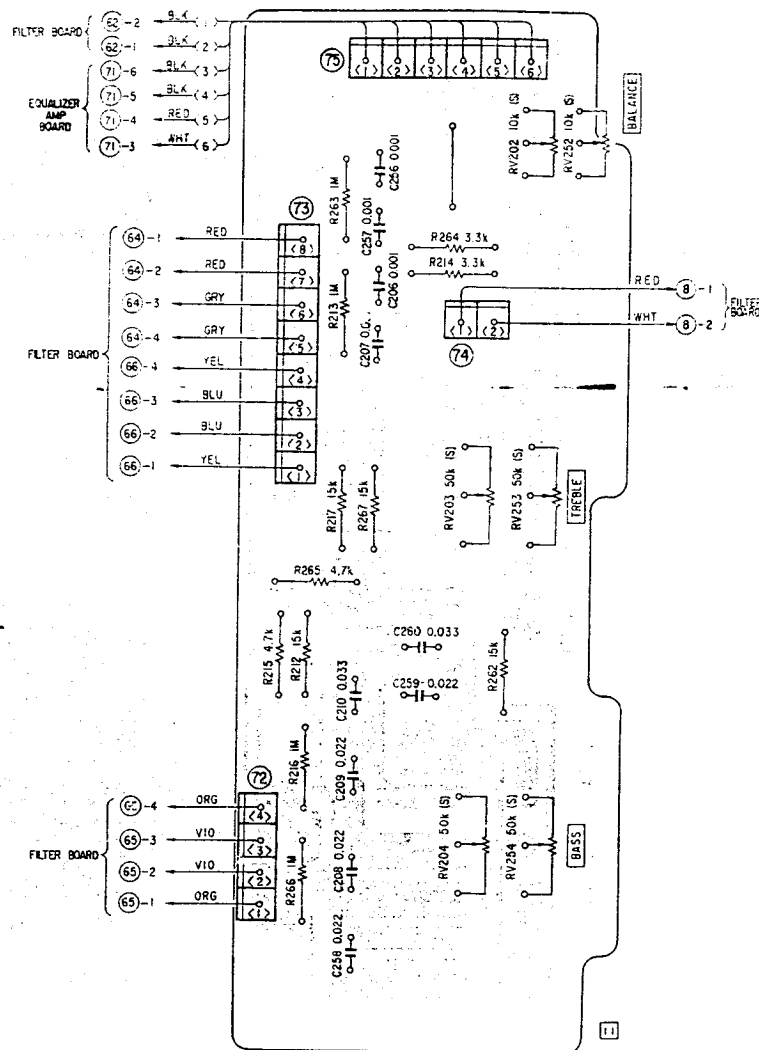
3-2. MOUNTING DIAGRAM - FUNCTION SELECTOR BOARD -

- Conductor Side -



3-3. MOUNTING DIAGRAM - TONE CONTROL BOARD -

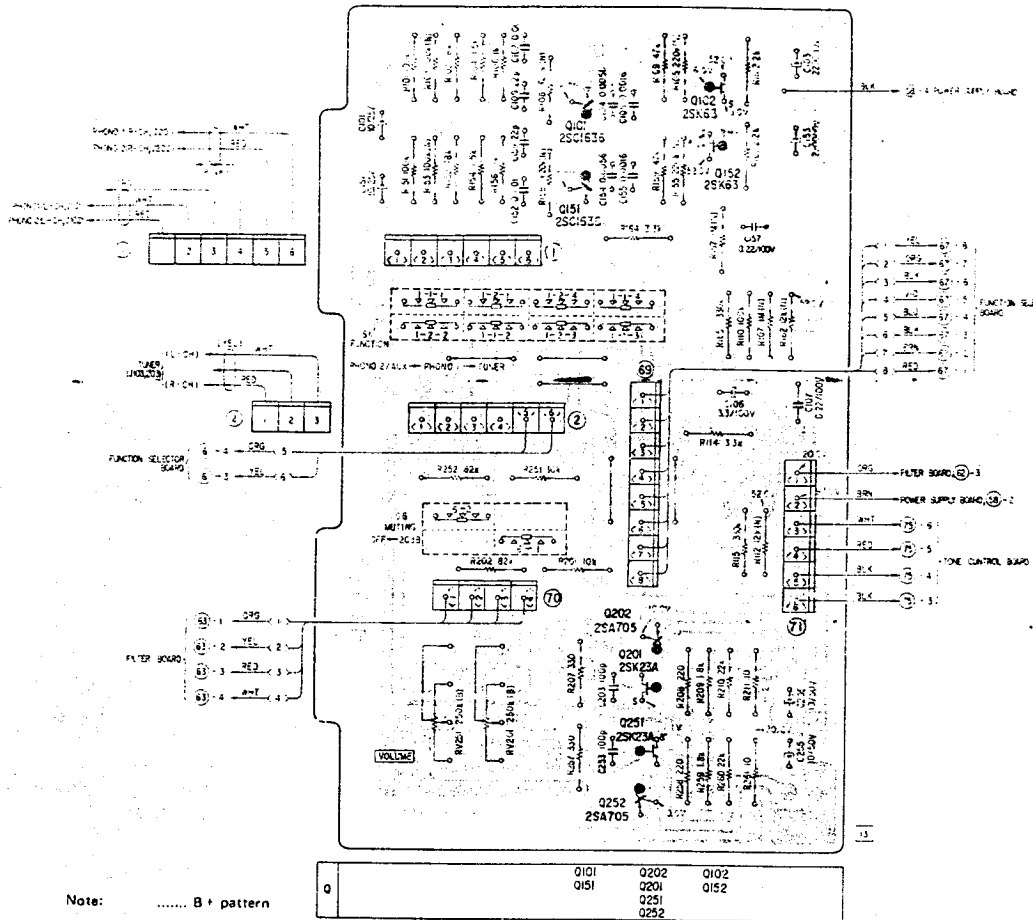
- Conductor Side -



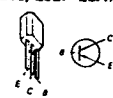
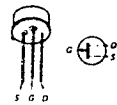
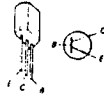
3-4. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

- Conductor Side -

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



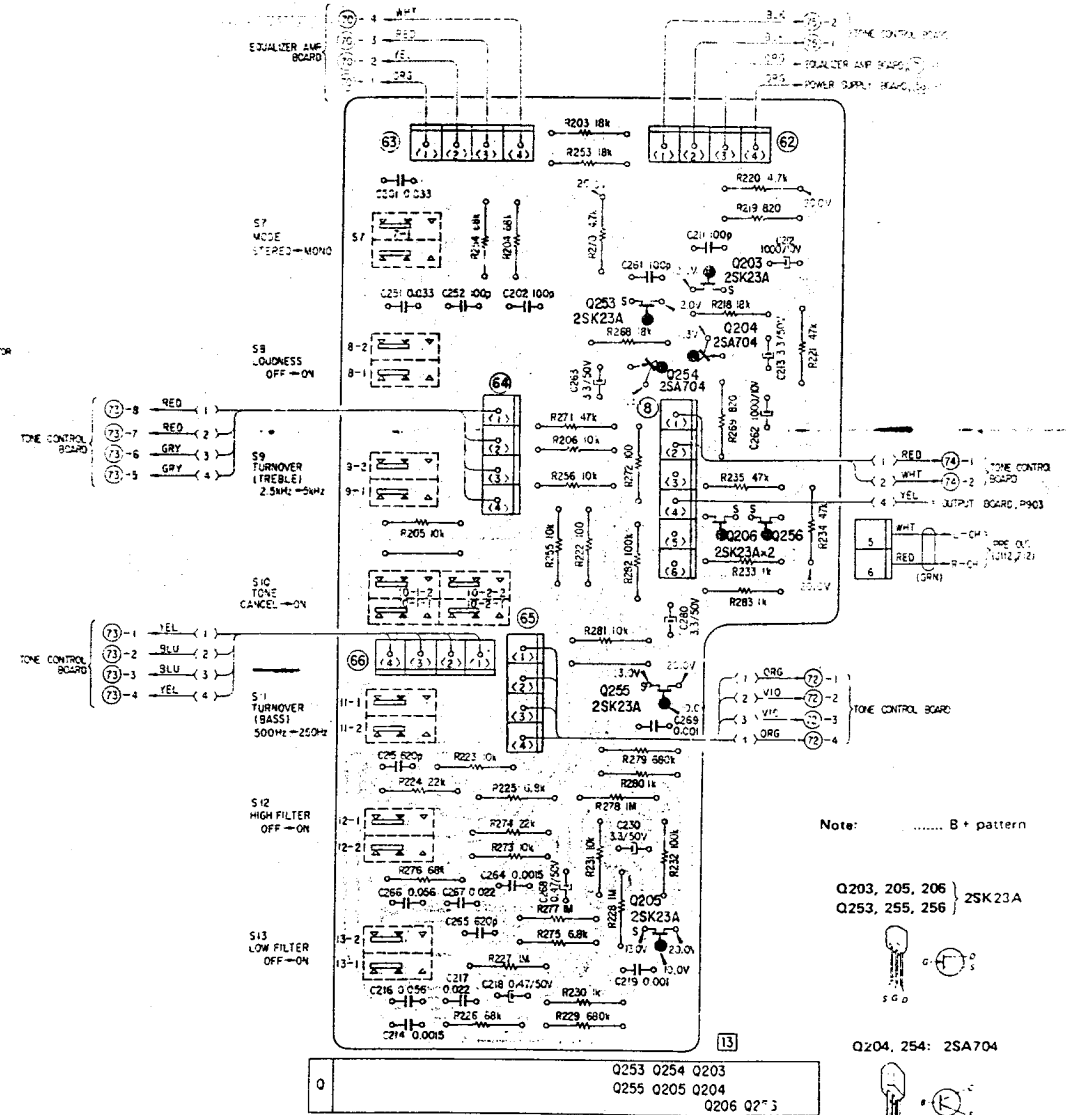
- Q101, 151: 2SC1636
- Q102, 152: 2SK63
- Q201, 251: 2SK23A
- Q202, 252: 2SA705



3-5. MOUNTING DIAGRAM - FILTER BOARD -

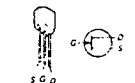
- Conductor Side -

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

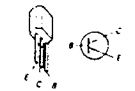


Note: ..... B + pattern

Q203, 205, 206 } 2SK23A  
Q253, 255, 256 }

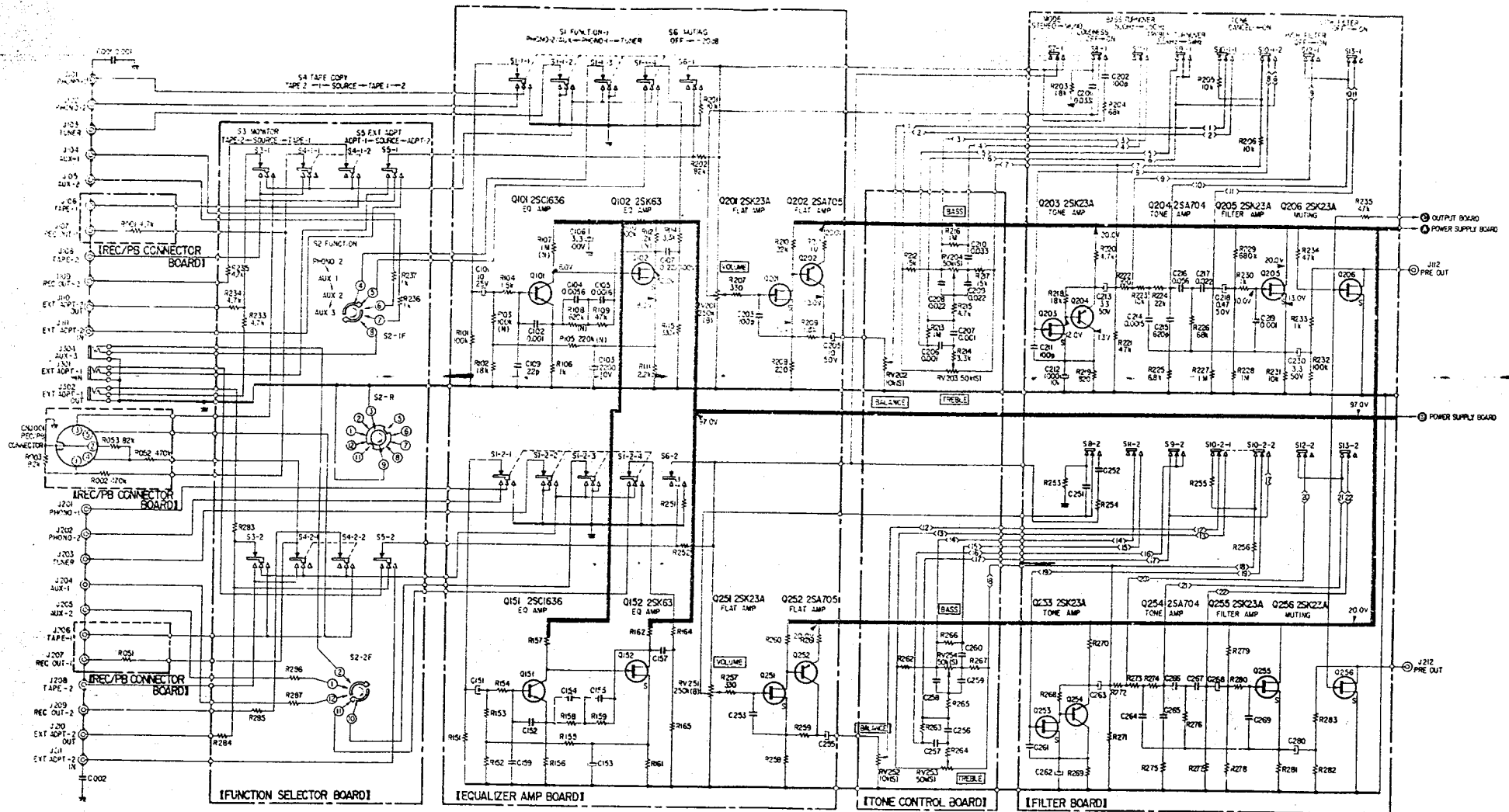


Q204, 254: 2SA704



3-6. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

UK Model: Up to Serial No. 600,000  
AEP Model: Up to Serial No. 601,000



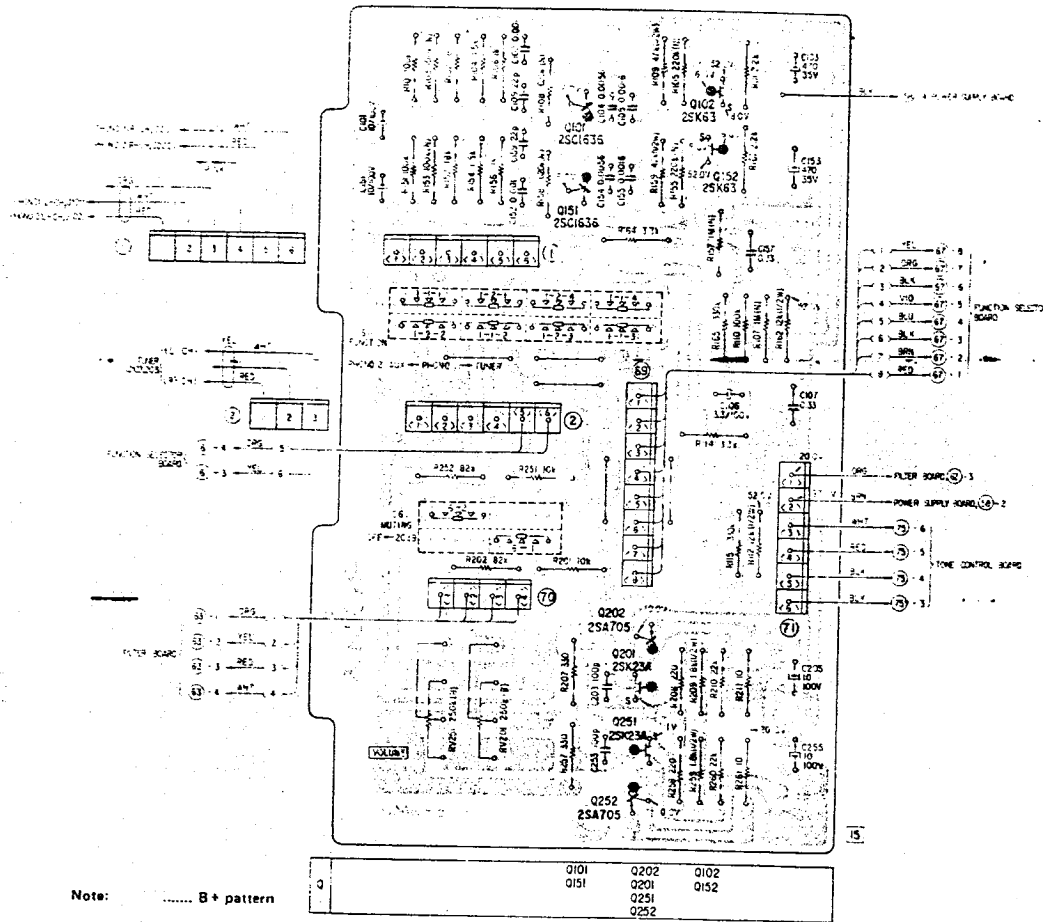
- S1---FUNCTION (PHONO)
- S2---FUNCTION (PHONO 2)
- S3---MONITOR (SOURCE)
- S4---TAPE COPY (SOURCE)
- S5---EXT ADPT (SOURCE)
- S6---MUTING (OFF)
- S7---MODE 1 STEREO
- S8---LOUDNESS (OFF)
- S9---TREBLE TURNER (2.5kHz)
- S10---TONE (CANCEL)
- S11---BASS TURNER (300Hz)
- S12---HIGH FILTER (OFF)
- S13---LOW 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.

3-7. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

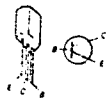
- Conductor Side -

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

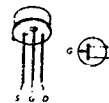


Note: ..... B + pattern

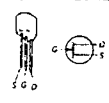
Q101, 151: 2SC1636



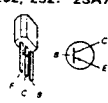
Q102, 152: 2SK63



Q201, 251: 2SK23A



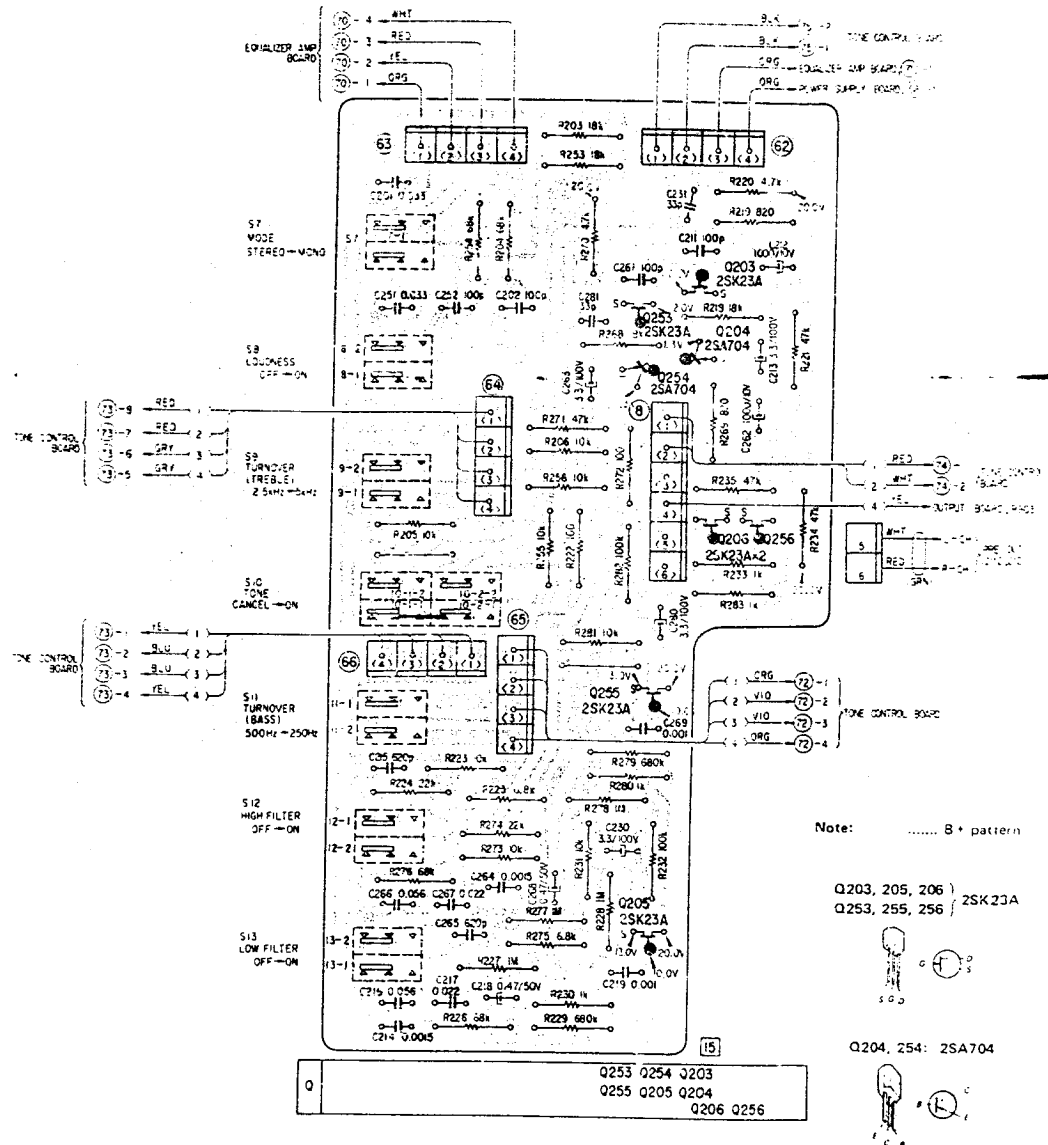
Q202, 252: 2SA705



3-8. MOUNTING DIAGRAM - FILTER BOARD -

- Conductor Side -

US Model: Serial No. 800,001 and later  
 Canadian 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

Q203, 205, 206 : 2SK23A  
 Q253, 255, 256 : 2SK23A

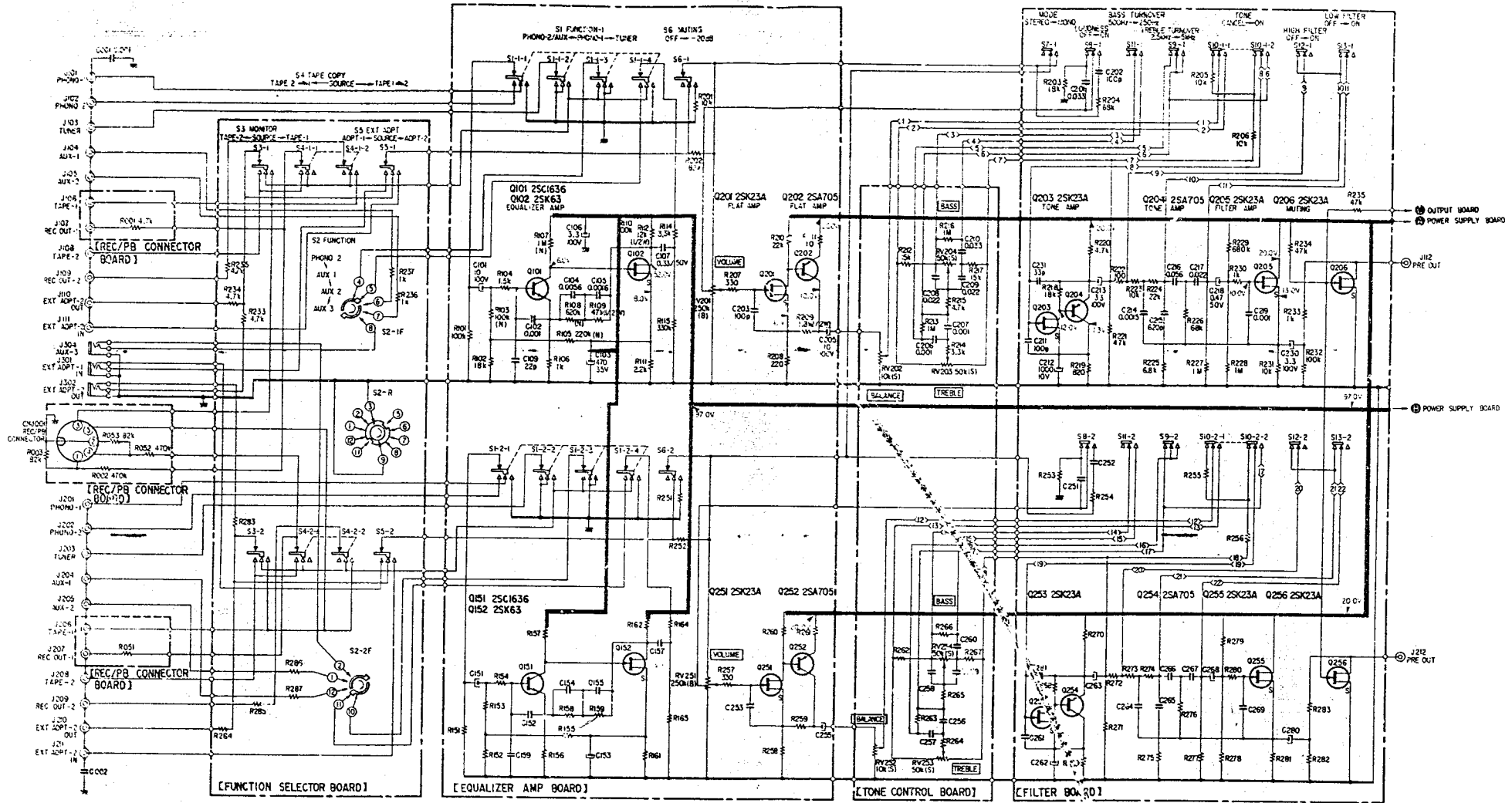
Q204, 254: 2SA704





3-9. SCHEMATIC DIAGRAM - PREAMPLIFIER SECTION -

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

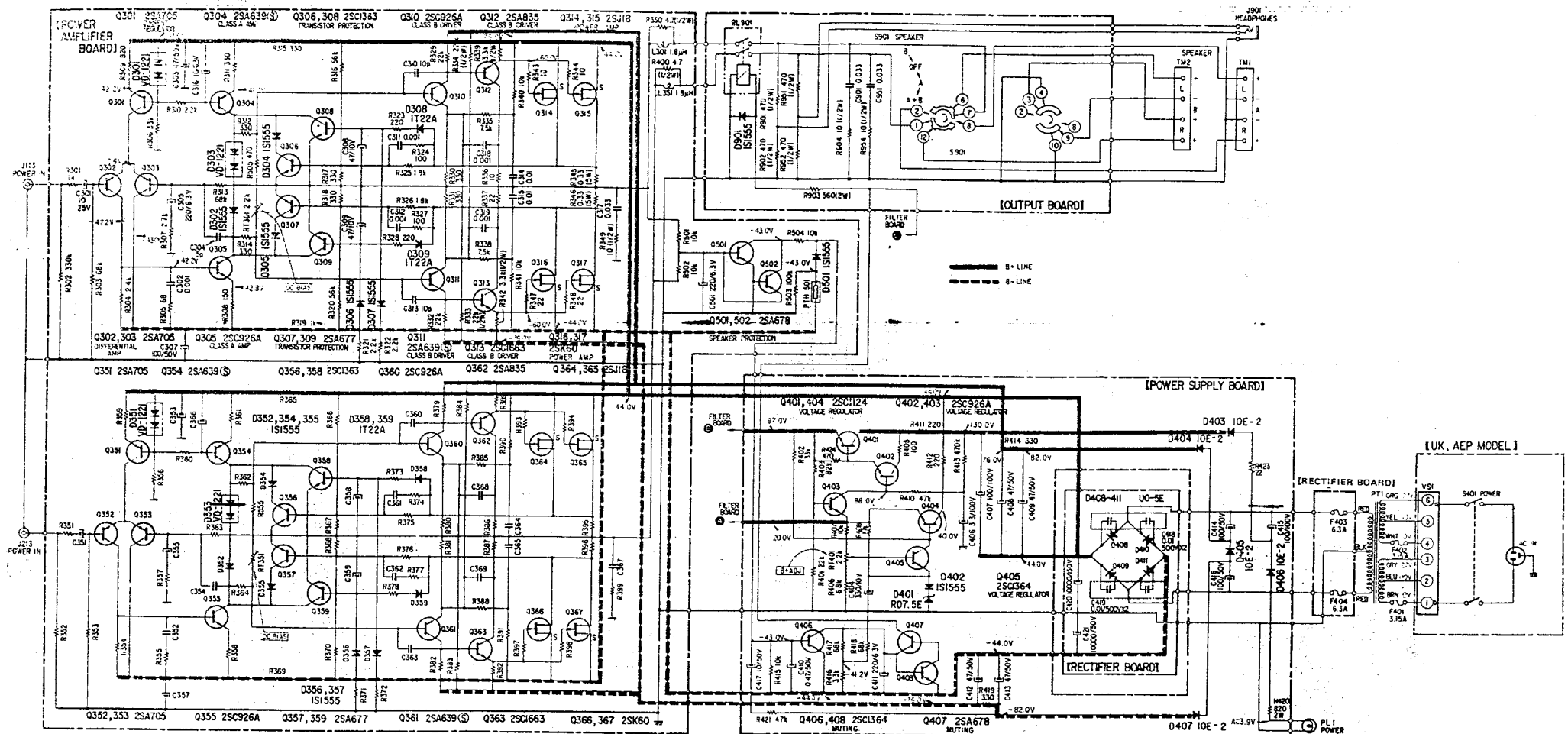


- S1---FUNCTION (PHONO1)
- S2---FUNCTION (PHONO2)
- S3---MONITOR (SOURCE)
- S4---TAPE COPY (SOURCE)
- S5---EXT ADPT (SOURCE)
- S6---MATING (OFF)
- S7---MODE (STEREO)
- S8---LOUDNESS (OFF)
- S9---TREBLE TURNOVER (2.5kHz)
- S10---TONE (CANCEL)
- S11---BASS TURNOVER (500Hz)
- S12---HIGH FILTER (OFF)
- S13---LOW 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.

3-10. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

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

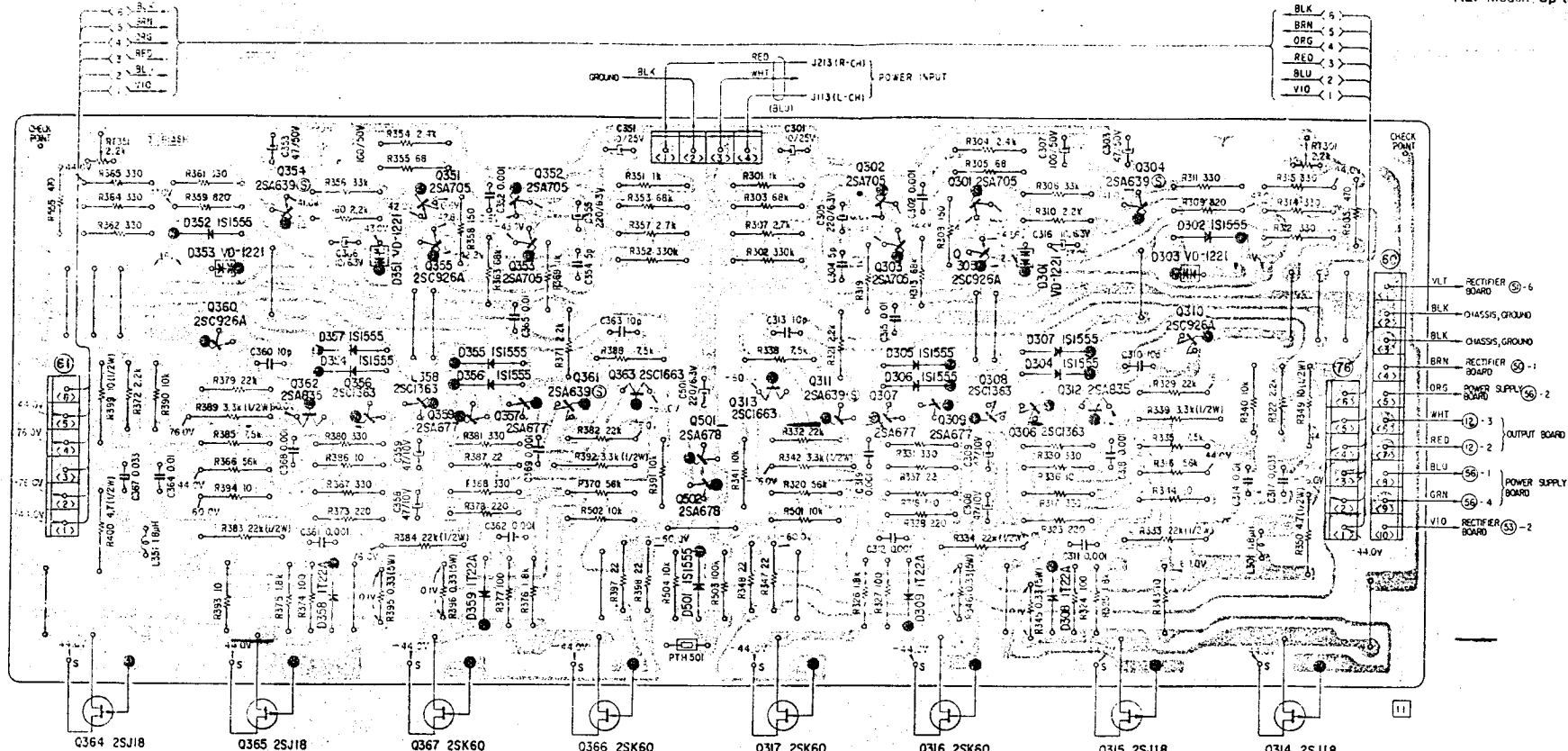


**Note:**  
 All resistance values are in ohms. k = 1,000, M = 1,000k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{F}$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations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

3.11. MOUNTING DIAGRAM - POWER AMPLIFIER BOARD -

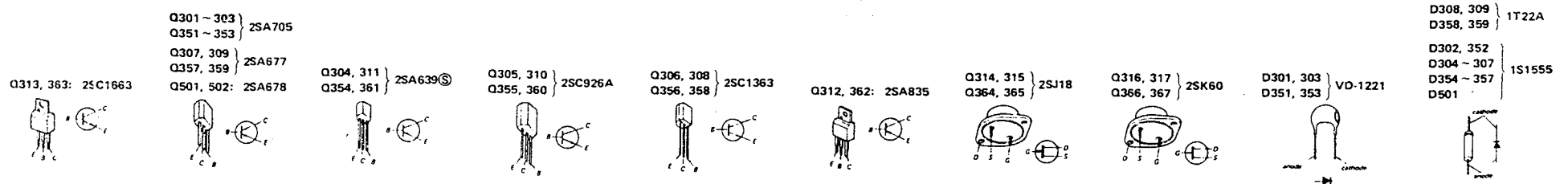
UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900

- Conductor Side -



Q364	Q360	Q354	Q351	Q352	Q302	Q301	Q304	Q310	Q
Q364	Q365	Q362	Q356	Q358	Q309	Q306	Q312	Q314	
	Q352	Q357	Q351	Q355	Q307	Q305	Q315		
	Q353	Q354	Q356	Q355	Q305	Q307	Q302		
		Q358	Q359	Q356	Q309	Q304	Q303		
			Q359	Q359	Q309	Q308			
				D501	D309	D308			

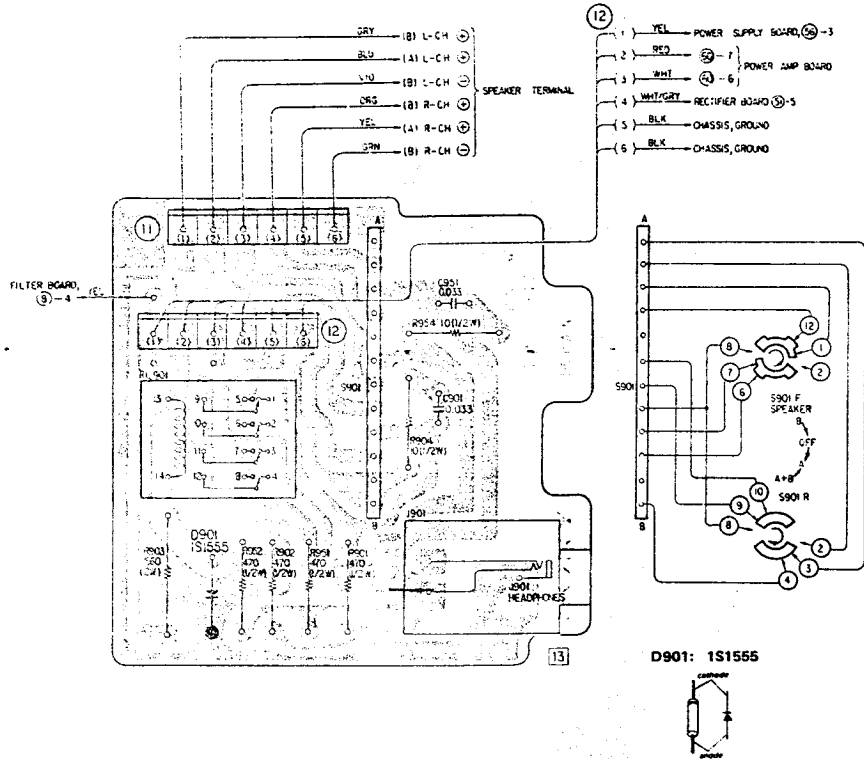
Note:  
..... B + pattern  
..... B - pattern



3-12. MOUNTING DIAGRAM - OUTPUT BOARD -

- Conductor Side -

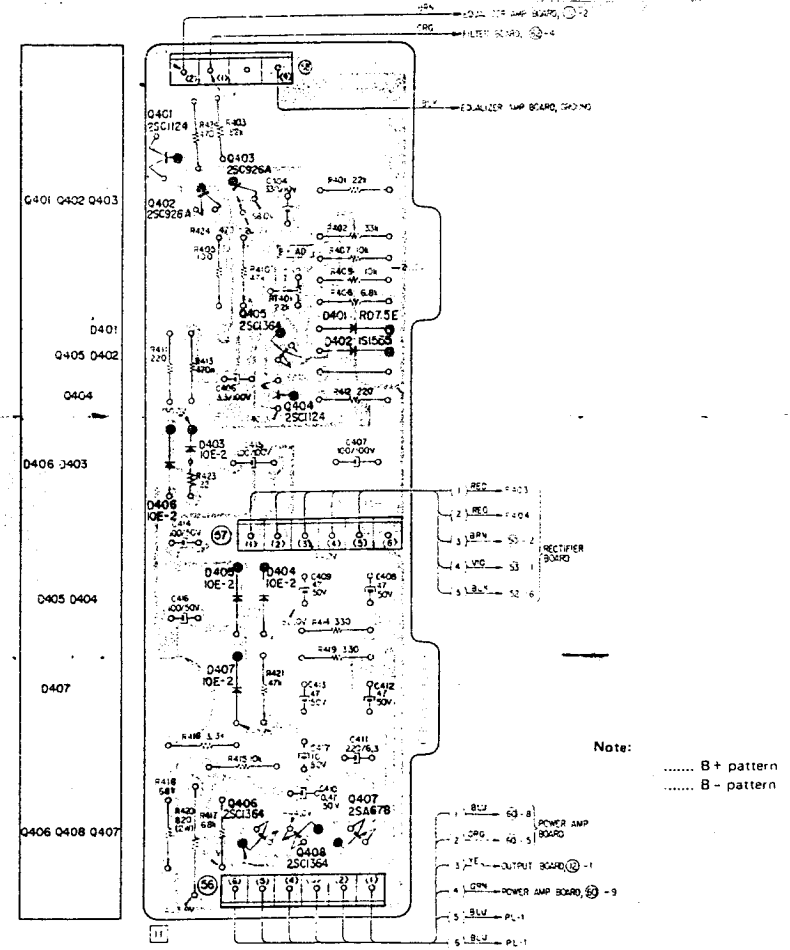
UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



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

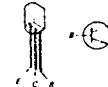
Q401, 404: 2SC1124



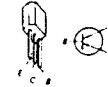
Q402, 403: 2SC926A



Q405, 406, 408: 2SC1364



Q407: 2SA678

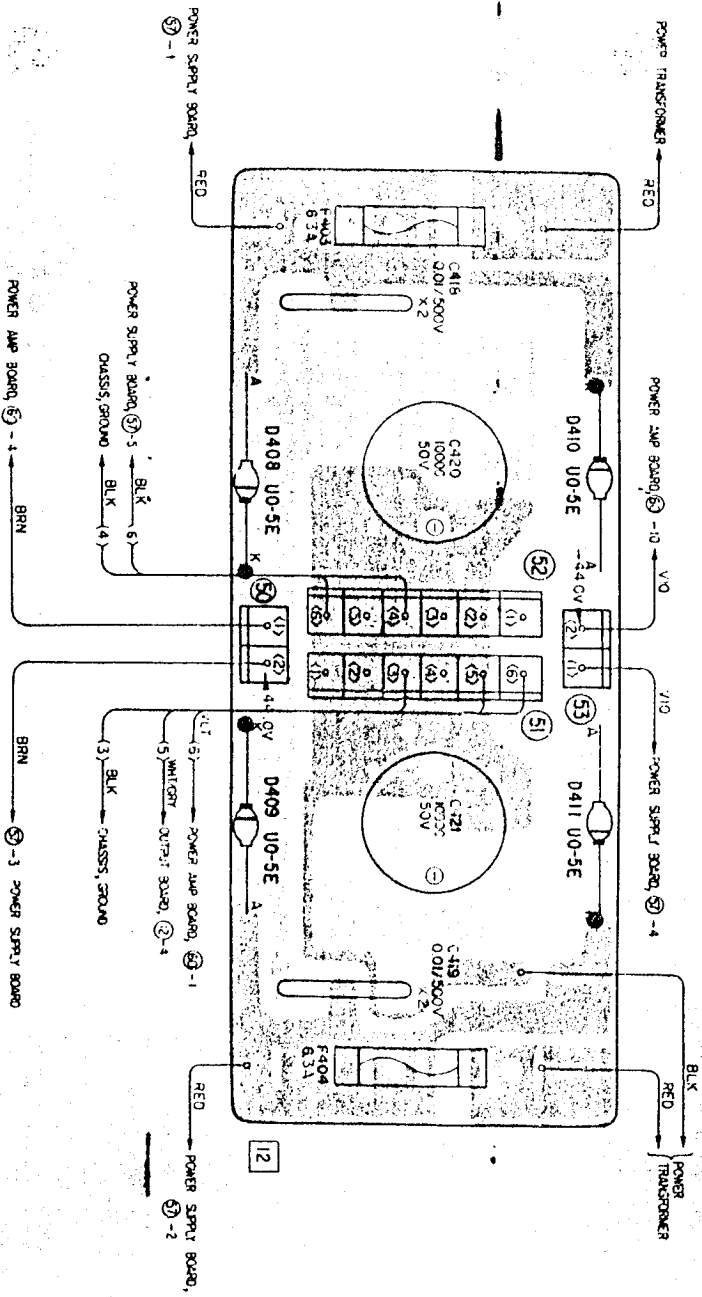
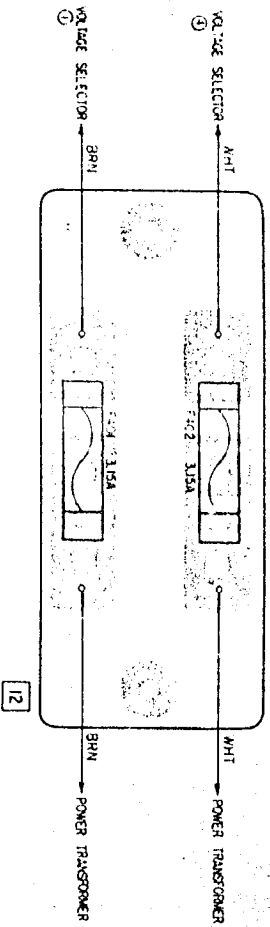


D401: RD-7.5E  
D402: 1S1555  
D403 ~ 407: 10E-2



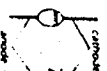
3-14. MOUNTING DIAGRAM — RECTIFIER/FUSE BOARDS —

— Component Side —



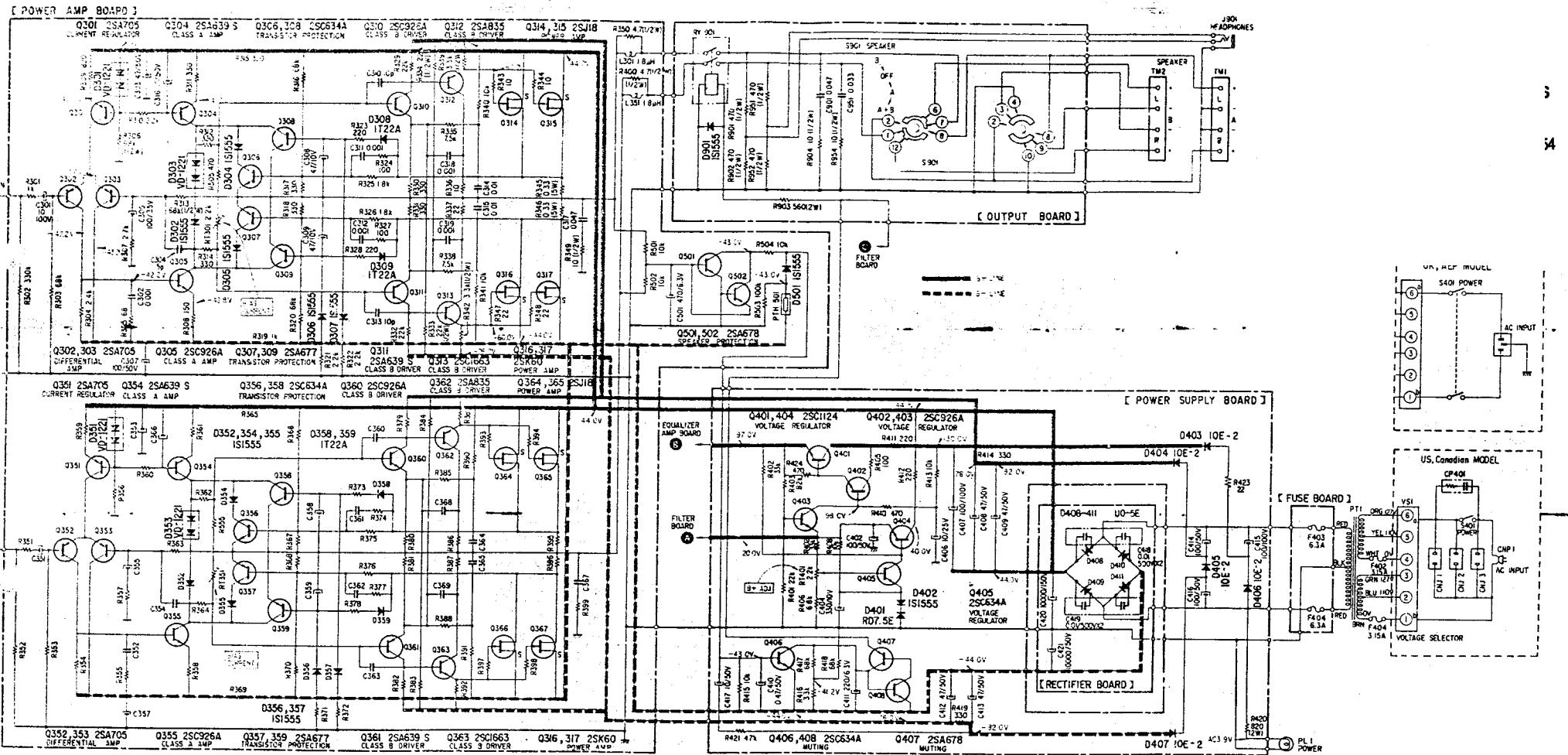
Note:  
 ..... B + pattern  
 ..... B - pattern

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



US Model: Serial No. 300,001 and later  
 Canadian Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later

3-15. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

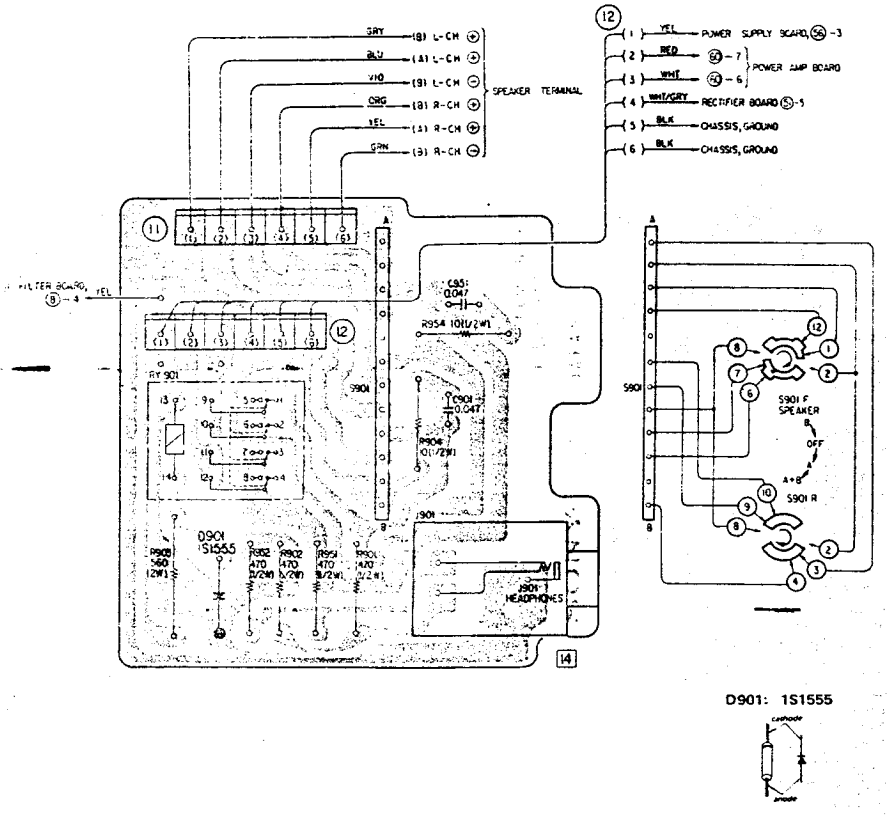


Note:  
 All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu F$  except as indicated with p, which means  $\mu\mu F$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations may be noted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



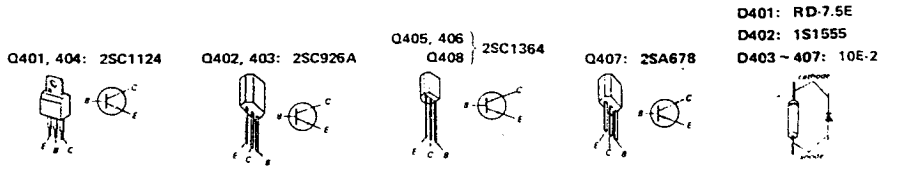
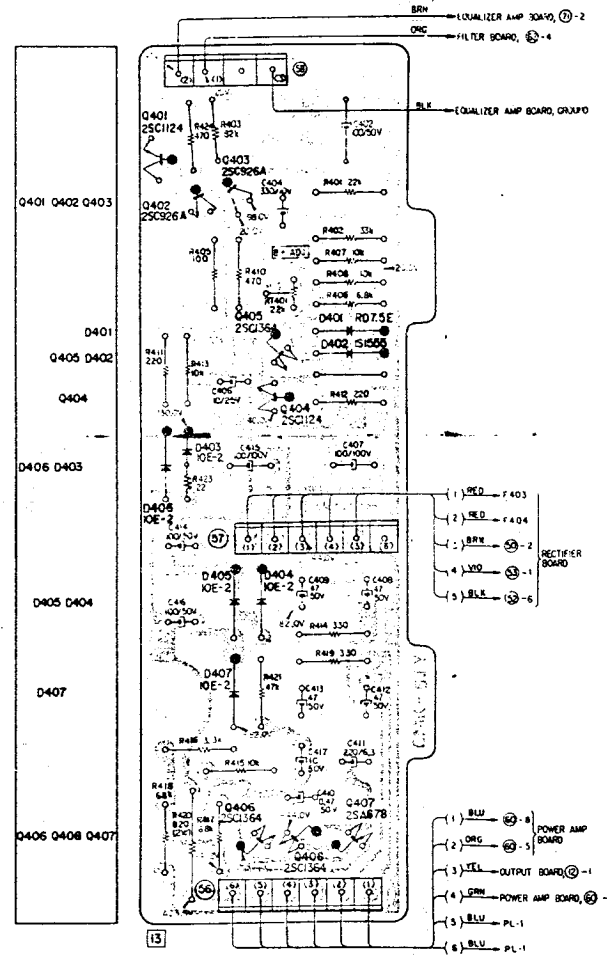
3-17. MOUNTING DIAGRAM - OUTPUT BOARD --  
 - Conductor Side -

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



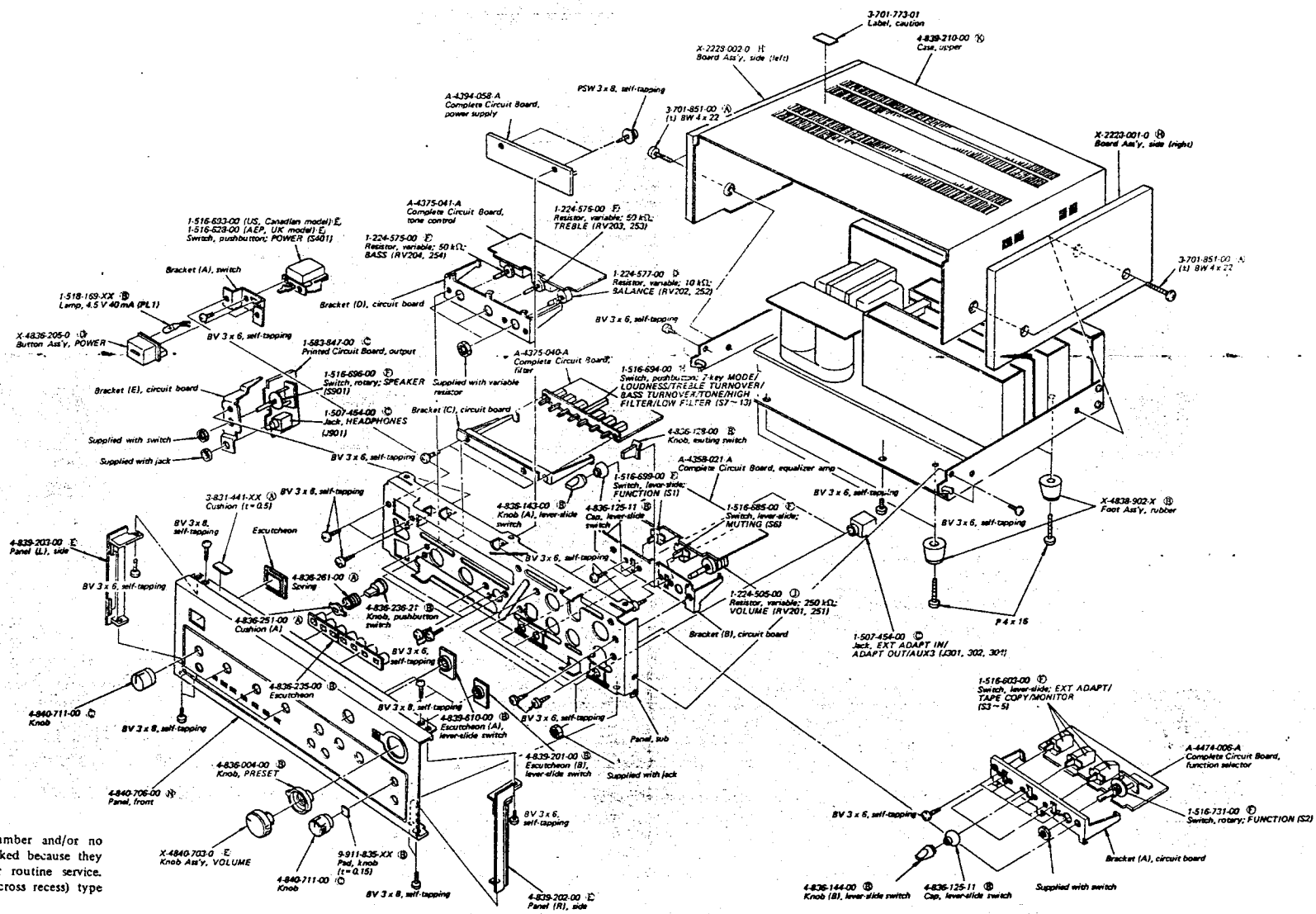
3-18. MOUNTING DIAGRAM - POWER SUPPLY BOARD --  
 - Conductor Side -

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



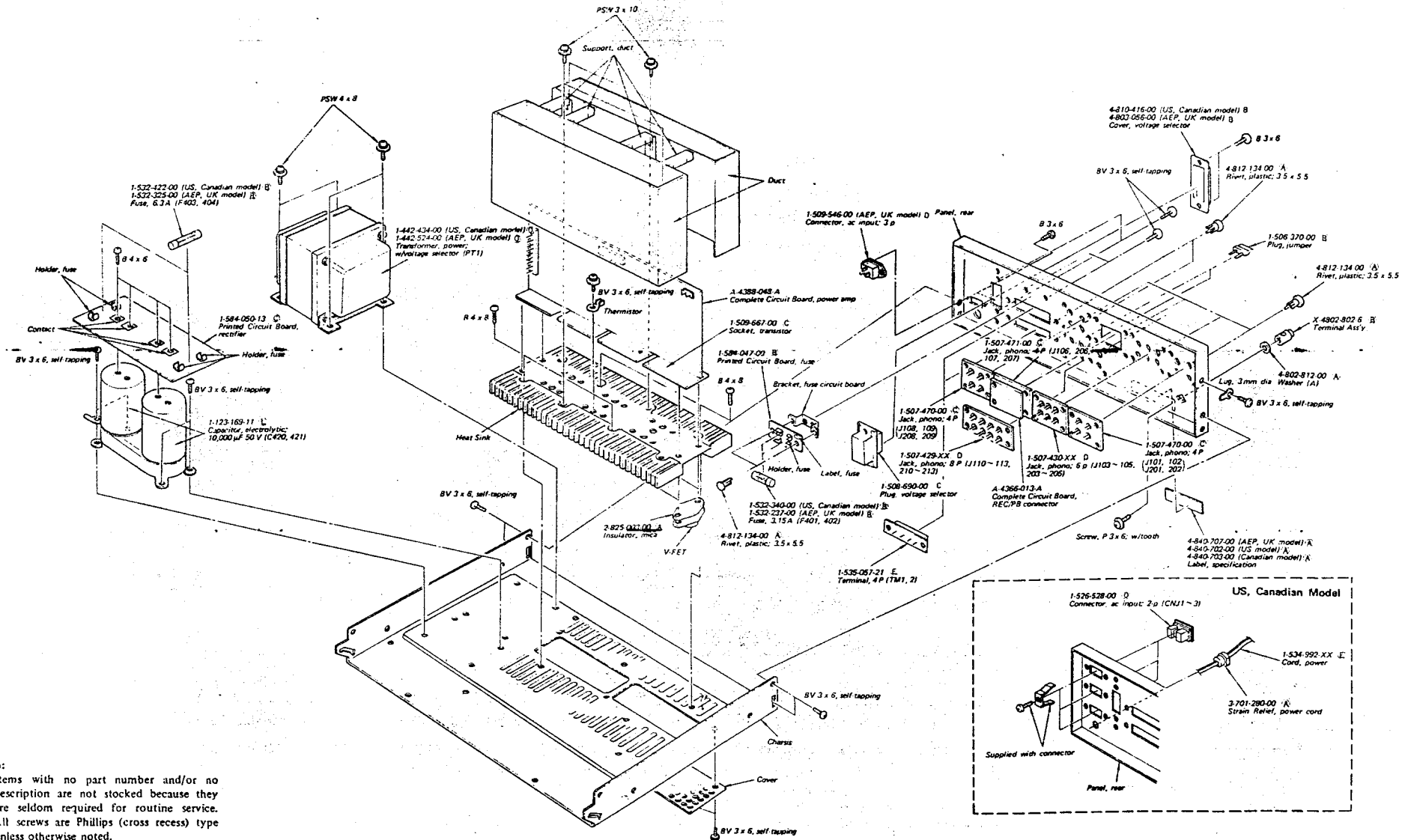


SECTION 4  
EXPLODED VIEWS



**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.



**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.
(A)	UK model: Up to Serial No. 600,350 AEP model: Up to Serial No. 501,900
(B)	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: The circled letters (A) to (Z) are applicable for European model only.

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

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

Ref. No.	Part No.	Description
<b>PRINTED CIRCUIT BOARDS</b>		
I-583-847-00	(C) Output	
I-584-047-00	(B) Fuse	
I-584-050-13	(C) Rectifier	

Ref. No.	Part No.	Description
Q501,502	(C) 2SA678	

<b>SEMICONDUCTORS</b>		
<b>Transistors</b>		
Q101,151	(B) 2SC1636	
Q102,152	(C) 2SK63	
Q201,251	(C) 2SK23A	
Q202,252	(C) 2SA705	
Q203,253	(C) 2SK23A	
Q204,254	(C) 2SA705	
Q205,255	(C) 2SK23A	
Q206,256		

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

Q301~303	(C) 2SA705	
Q351~353		
Q304,354	(C) 2SA639S	
Q305,355	(D) 2SC926A	
Q306,356	(B) 2SC1364	
Q307,357	(C) 2SA677	
Q308,358	(B) 2SC1364	
Q309,359	(C) 2SA677	
Q310,360	(D) 2SC926A	
Q311,361	(C) 2SA639S	
Q312,362	(E) 2SA835	
Q313,363	(D) 2SC1663	

<b>COIL</b>		
L301,351	1-407-592-00 (A) Microinductor 1.8μH	

<b>TRANSFORMER</b>		
PT1	1-442-434-00 (C) Power (USA, Canada model)	
PT1	1-442-524-00 (C) Power (AEP, UK model)	

Ref. No.	Part No.	Description
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<b>CAPACITORS</b>		
All capacitors are in μF and electrolytic type unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. (p = μμF)		
C001,002	1-102-074-11 (A) 0.001	ceramic
C101,151	(A) 1-121-748-11 (A) 10	25V
	(A) 1-121-126-11 (A) 10	100V
C102,152	1-108-227-12 (A) 0.001	mylar
C103,153	(B) 1-121-659-11 (B) 2200	10V
	(B) 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	(A) 1-105-729-12 (A) 0.22	100V mylar
	(A) 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	(A) 1-123-051-11 (A) 10	50V
	(A) 1-121-126-11 (A) 10	100V
C206,256		
C207,257	1-108-555-12 (A) 0.001	mylar
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
	(B) 1-121-914-11 (B) 3.3	50V
C213,263	(B) 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	(B) 1-121-914-11 (B) 3.3	50V
	(B) 1-121-995-11 (B) 3.3	100V
C231,281	(A) 1-102-963-11 (A) 33p	ceramic

Ref. No.	Part No.	Description
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C301,351	(A) 1-121-748-11 (A) 10	25V
	(A) 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	(B) 1-121-419-11 (B) 220	6.3V
	(B) 1-121-357-11 (B) 100	35V
C307,357	1-123-059-11 (B) 160	50V
C308,358		
C309,359	1-121-927-11 (B) -7	10V
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	(A) 1-121-469-11 (A) 10	6.3V
	(A) 1-121-738-11 (A) 10	50V
C317,367	(A) 1-108-244-12 (A) 0.033	mylar
	(A) 1-108-868-12 (A) 0.047	mylar
C318,368		
C319,369	1-108-227-12 (A) 0.001	mylar
C402	(B) 1-121-417-11 (B) 100	50V
C404	1-121-805-11 (B) 330	10V
C406	(A) 1-121-995-11 (A) 3.3	100V
	(A) 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	(B) 1-121-419-11 (B) 220	6.3V
	(B) 1-123-077-11 (B) 470	6.3V
C901,951	(A) 1-108-244-12 (A) 0.033	mylar
	(A) 1-108-868-12 (A) 0.047	mylar

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

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Ref. No.	Part No.	Description
<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	1-244-905-11	(A) 22 k 1/2W carbon
R334,384	1-244-905-11	(A) 22 k 1/2W carbon
R339,389	1-211-650-11	(A) 3.3 k 1/2W carbon
R342,392	1-211-650-11	(A) 3.3 k 1/2W carbon
R345,395	1-217-157-11	(A) 0.33 5W wire-wound
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	1-244-865-11	(A) 470 1/2W carbon
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) 2.2k adjustable
RT401	1-224-250-XX	(C) 2.2k adjustable
RV201,251	1-224-505-00	(J) 250k variable; VOLUME
RV202,252	1-224-577-00	(D) 10k variable; BALANCE
RV203,253	1-224-576-00	(F) 50k variable; TREBLE
RV204,254	1-224-575-00	(F) 50k variable; BASS
<b>SWITCHES</b>		
S1	1-516-699-00	(E) Lever-slide, FUNCTION
S2	1-516-731-00	(F) Rotary, FUNCTION
S3-5	1-516-603-00	(F) Lever-slide, EXT ADAPT, TAPE COPY, MONITOR
S6	1-516-685-00	(E) Lever-slide, MUTING

Ref. No.	Part No.	Description
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	(E) Pushbutton, POWER (AEP, UK model)
	1-516-693-00	(E) Pushbutton, POWER (USA, Canada model)
S901	1-516-696-00	(F) 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	1-507-470-00	(C) Phono, 4-p; PHONO 1, 2
J102,202	1-507-470-00	(C) Phono, 4-p; PHONO 1, 2
J103-105	1-507-430-XX	(D) Phono, 6-p; TUNER, AUX 1, 2
J203-205	1-507-430-XX	(D) Phono, 6-p; TUNER, AUX 1, 2
J106,206	1-507-471-00	(C) Phono, 4-p; TAPE 1, REC OUT 1
J107,207	1-507-471-00	(C) Phono, 4-p; TAPE 1, REC OUT 1
J108,208	1-507-470-00	(C) Phono, 4-p; TAPE 2, REC OUT 2
J109,209	1-507-470-00	(C) Phono, 4-p; TAPE 2, REC OUT 2
J110-113	1-507-429-XX	(D) Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN
J210-213	1-507-429-XX	(D) Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN
J301,302	1-507-454-00	(C) EXT ADAPT IN, ADAPT OUT, AUX 3
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	(B) Fuse, 3.15A (USA, Canada model)
	1-532-237-00	(B) Fuse, 3.15A (AEP, UK model)
F403,404	1-532-325-00	(B) Fuse, 6.3A (AEP, UK model)
	1-532-422-00	(B) Fuse, 6.3A (USA, Canada model)
PL1	1-518-169-XX	(B) Lamp, 4.5V 40mA
RY901	1-515-257-00	(H) Relay

Ref. No.	Part No.	Description
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)

Ref. No.	Part No.	Description
<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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