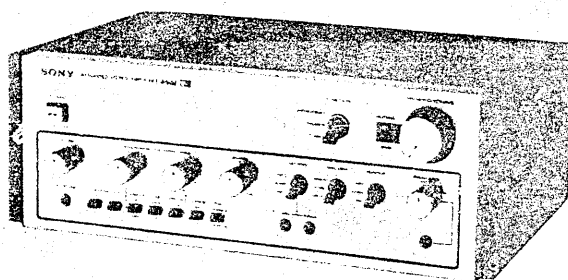


TA-5650

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 1/8(w) x 6 5/8(h) x 12 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 ± 0 dB

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

Residual Noise: Less than 0.02 μ W (8 Ω)

Damping Factor: 50 (8 Ω , at 1 kHz)

Inputs: POWER INPUT
Sensitivity 1 V RMS (for rated output), impedance 50 k Ω

Outputs: SPEAKER terminals A, B
Accept speakers of 4 Ω 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 + 6 J W (8 Ω)
50 + J W (4 Ω)
At 20 Hz - 20 kHz
50 + 50 W (8 Ω)
55 + 55 W (8 Ω)
according to DIN 45500

Dynamic Power Output: 160 W (8 Ω)
(IHF constant power supply method)
140 W (4 Ω)

Power Bandwidth (IHF): 5 - 40,000 Hz

0 dB = 0.775 V

- continued on page 2 -

THE QUALITY OF
THIS MANUAL IS
THE BEST THAT
IS AVAILABLE

SONY

SERVICE MANUAL

TA-5650

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 ± 0.5 dB
 TUNER
 AUX 1, 2, 3
 TAPE 1, 2
 REC/PB (input)
 EXT ADPT 1, 2 (input)

Tone Controls: BASS:
 ± 10 dB at 50 Hz (TURNOVER 250 Hz)
 ± 10 dB at 100 Hz (TURNOVER 500 Hz)
 TREBLE:
 ± 10 dB at 10 kHz (TURNOVER 2.5 kHz)
 ± 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: + 10 dB at 50 Hz
 (att. 30 dB) + 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:

US Model

SONY ®	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-5650 AC 120V 60Hz 160W SERIAL NO.
	MADE IN JAPAN

Canadian Model

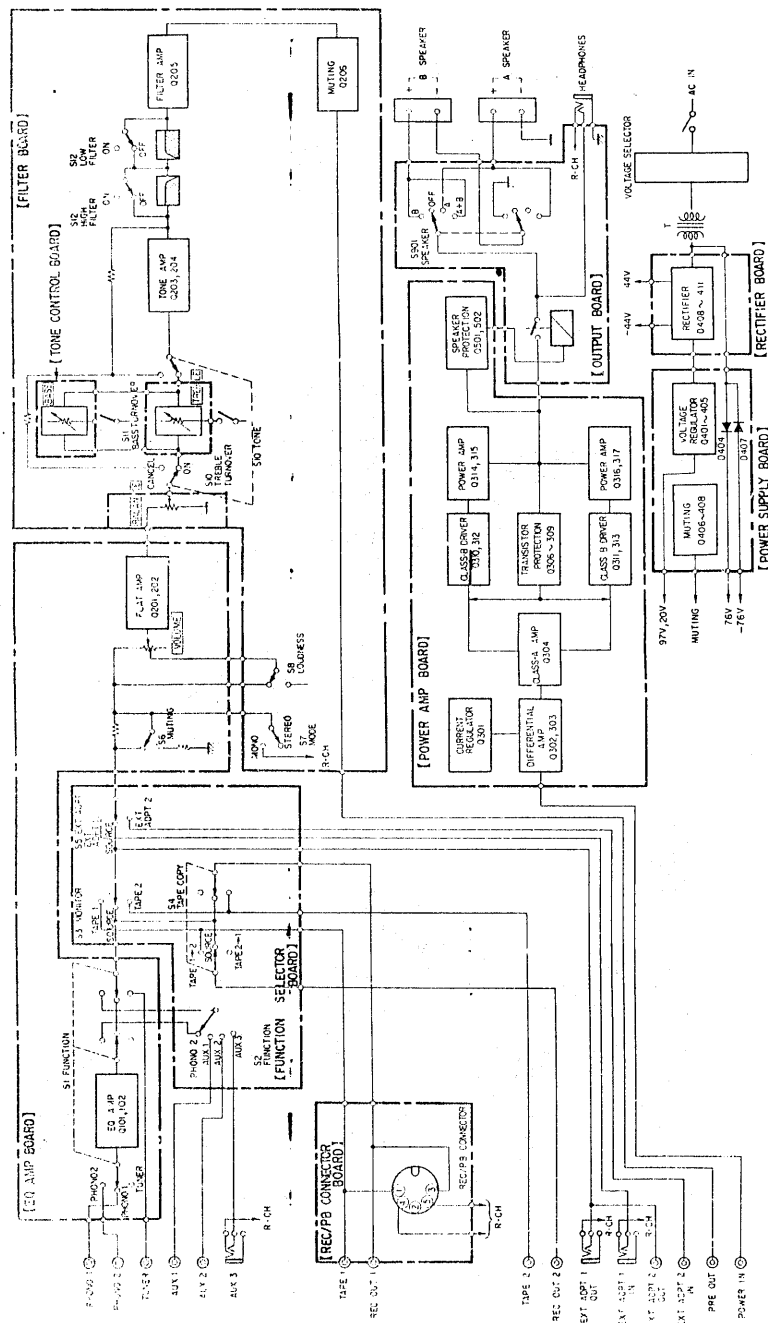
SONY ®	INTEGRATED STEREO AMPLIFIER MODEL NO. TA-5650 AC 120V 60Hz 320VA SERIAL NO.
	MADE IN JAPAN

UK and AEP Models

SONY ®	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

1. Turn the power switch on and allow about five minutes for warming up.

2. 20 V POWER VOLTAGE ADJUSTMENT
With an input signal adjust RT401 so that the output voltage of Q401 measures 20 V.

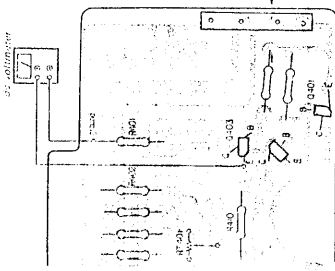


Fig. 2-1. 20 V power voltage adjustment

2. 97 V POWER VOLTAGE CONFIRMATION
After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows 97 V $\pm$ 3 V.

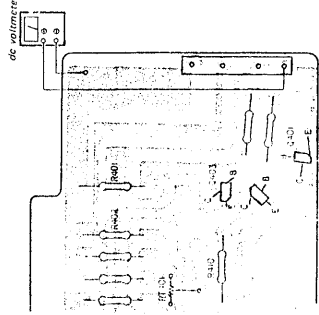


Fig. 2-2. 97 V power voltage confirmation

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.

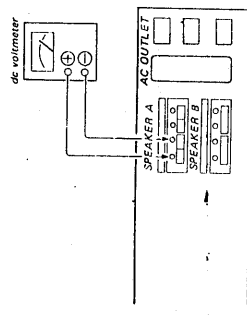


Fig. 2-3. Confirmation of dc balance voltage

2.4. DC BIAS ADJUSTMENT

Adjust RT301 and RT331 for 90 mV reading on the meter with no input signal.

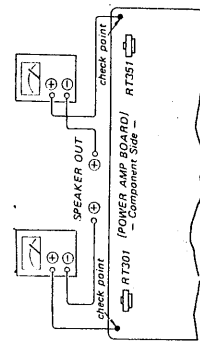


Fig. 2-4. DC bias adjustment

2.5. CHASSIS LAYOUT

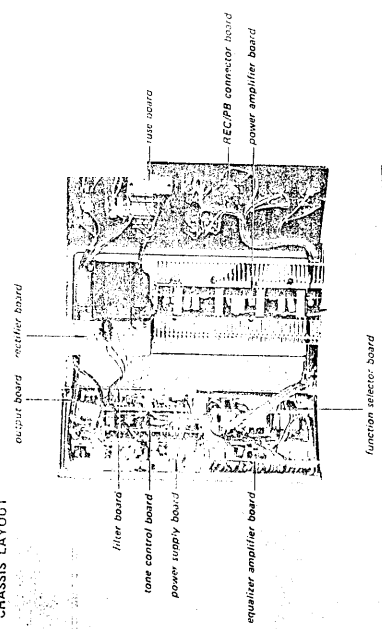
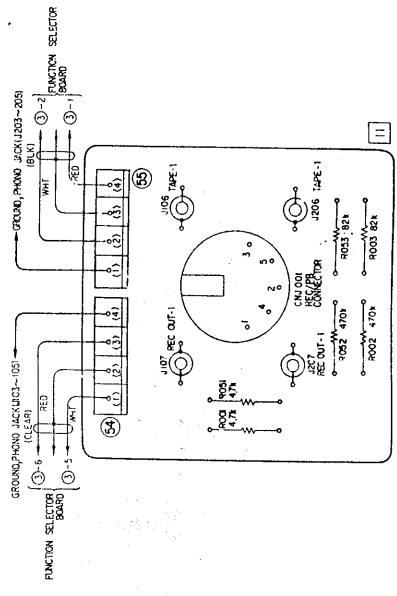


Fig. 2-5. Chassis layout

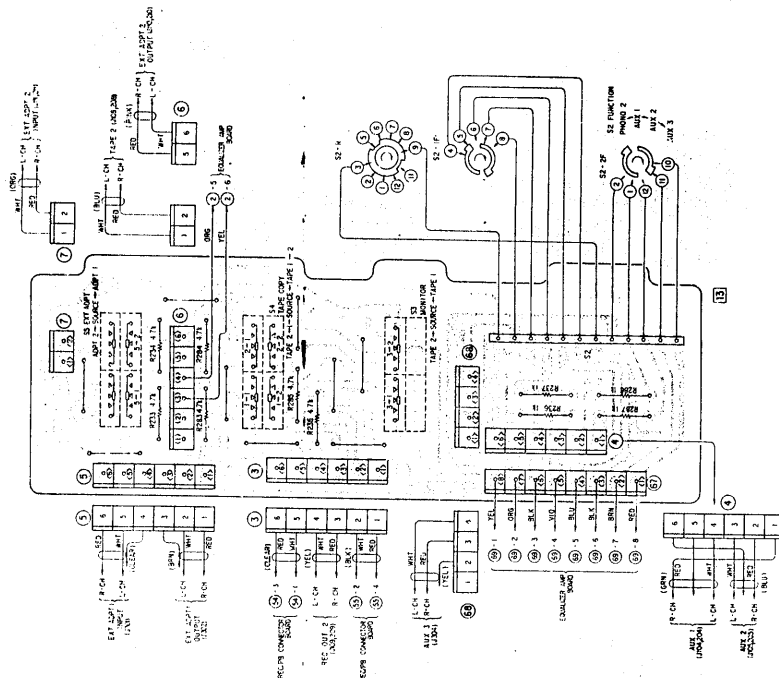
SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

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

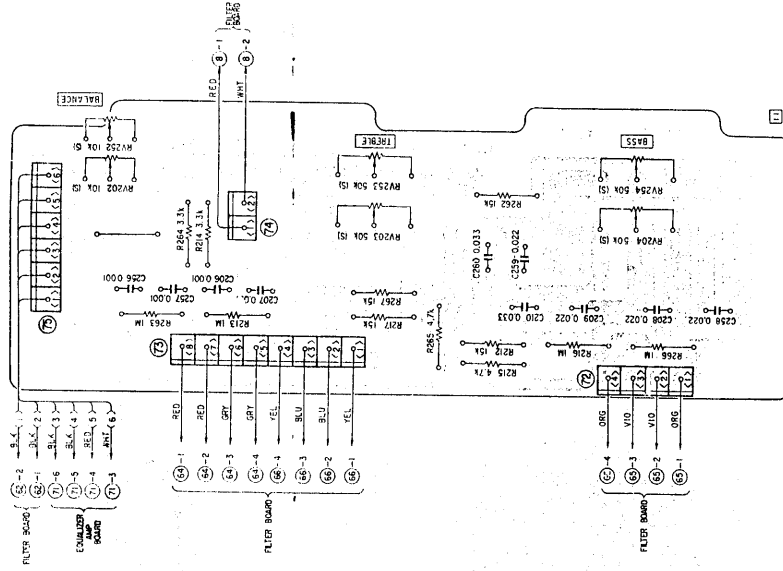
- Conductor Side -



3-2. MOUNTING DIAGRAM - FUNCTION SELECTOR BOARD -
- Conductor Side -



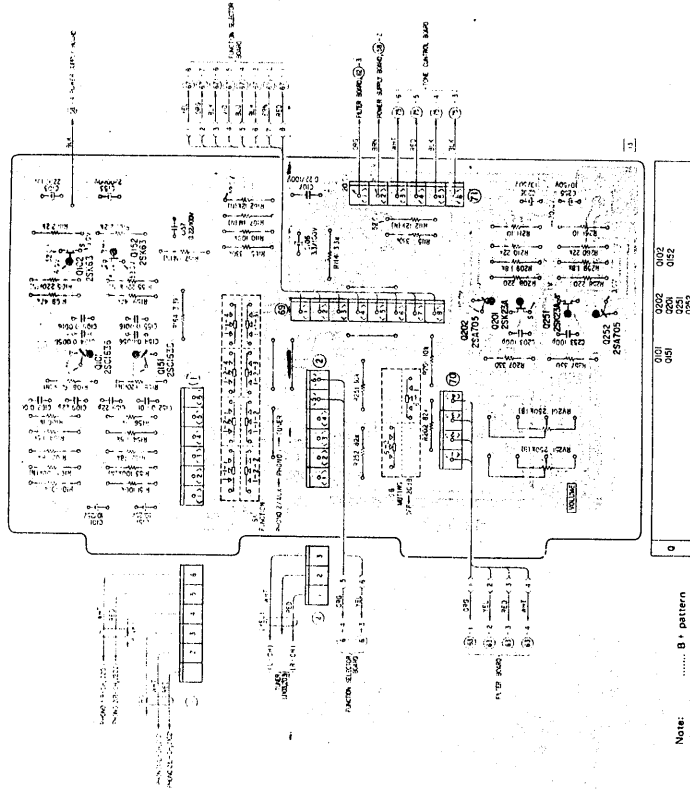
3.3. MOUNTING DIAGRAM – TONE CONTROL BOARD –
– *Conductor Side* –



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3-4. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -

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



Note: B + pattern

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

2102, 152: 2SK63

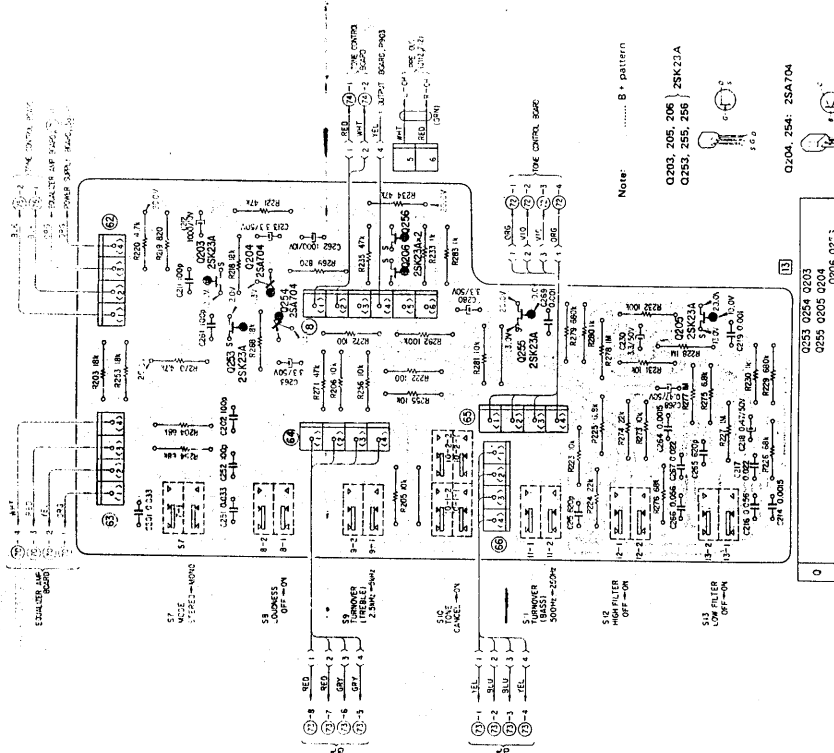
201, 251: 2SK23A

Q202, 252: 2SA705



3-5. MOUNTING DIAGRAM - FILTER BOARD -
- Conductor Side -

UK Model: Up to speed in
AEP Model: Up to speed in



Note: B + pattern

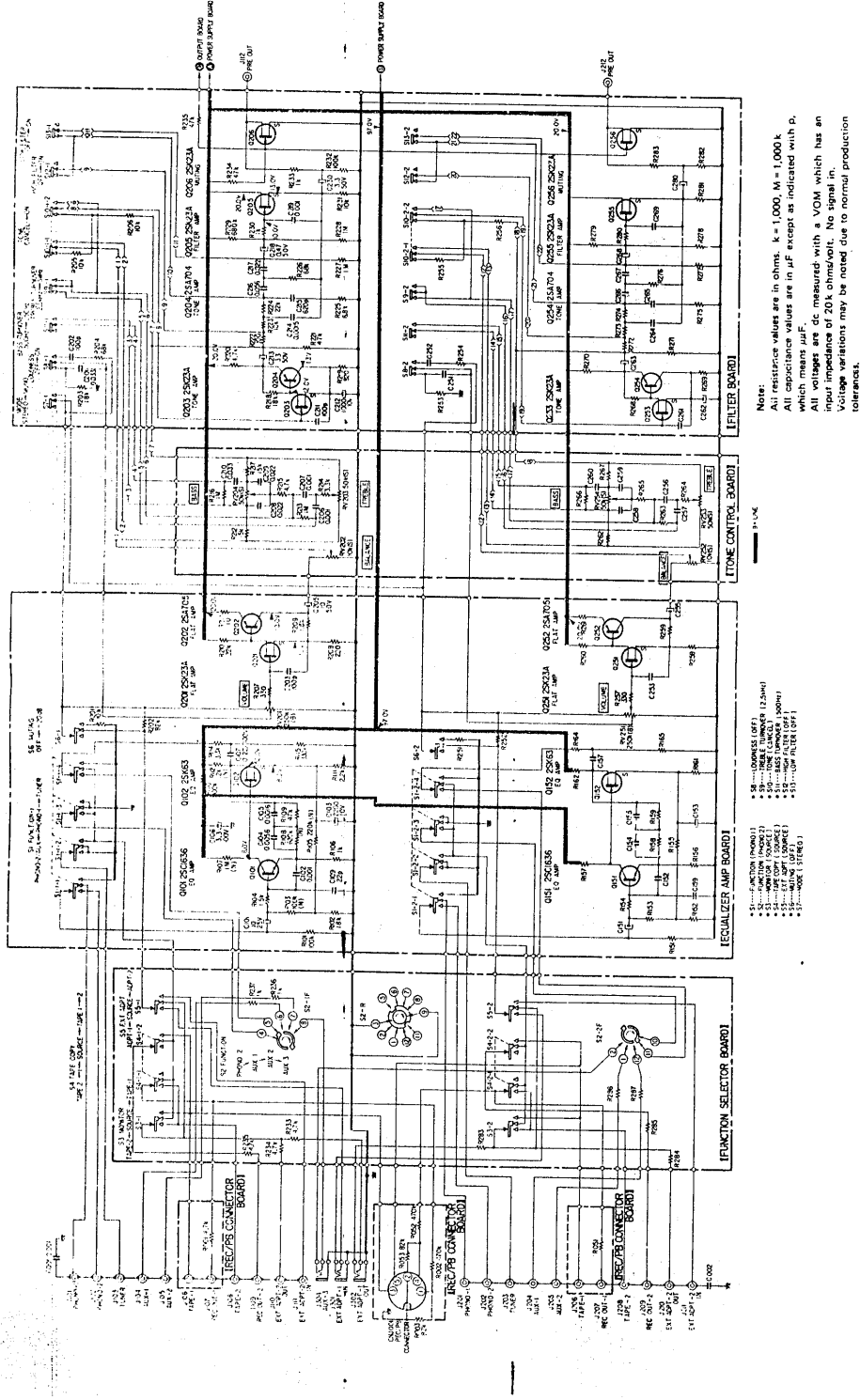
Q203, 205, 206 } 2SK23A

Q204. 254: 2SA704

Q253 Q254 Q203
Q255 Q205 Q204
Q206 Q203

UK Model: Up to Serial No 1000
AEP Model: Up to Serial No 1000

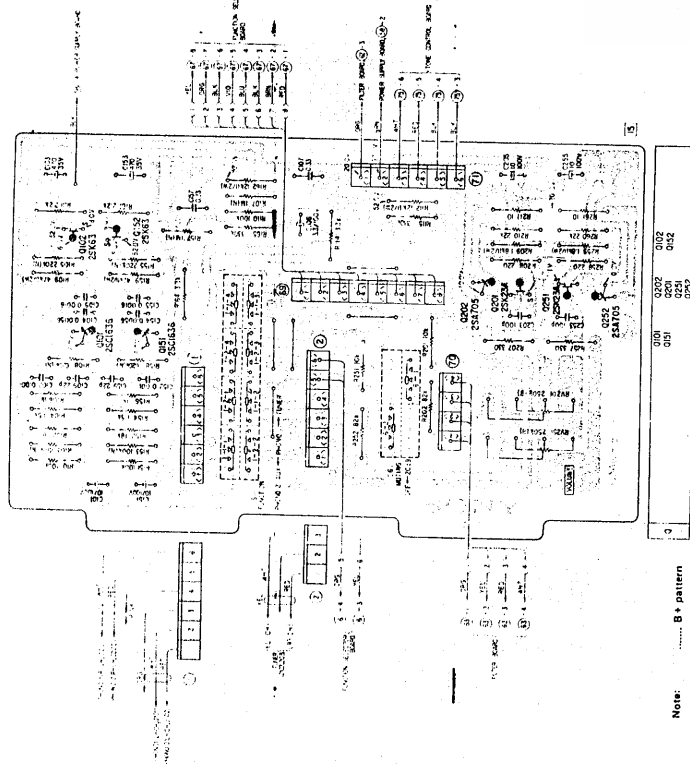
3-6. SCHEMATIC DIAGRAM 1 - PREAMPLIFIER SECTION -



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3-7. MOUNTING DIAGRAM - EQUALIZER AMPLIFIER BOARD -
- Conductor Side -

US Model: Serial No. 300,001 and later
Canadian Model: Serial No. 300,001 and later
UK Model: Serial No. 600,351 and later
AEP Model: Serial No. 501,301 and later

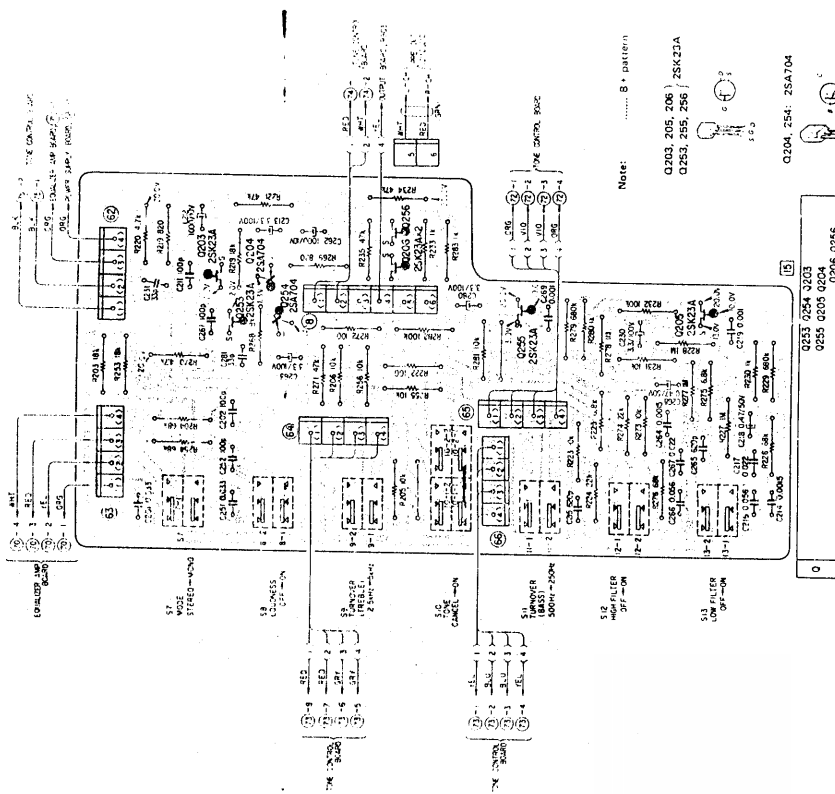


Note: B+ pattern

- Q101, 151: 35C1836
- Q102, 152: 7K463
- Q201, 251: 25K23A
- Q202, 252: 25A705

3-8. MOUNTING DIAGRAM - FILTER BOARD -
- Conductor Side -

US Model: Serial No. 300,001 and later
Canadian Model: Serial No. 300,001 and later
UK Model: Serial No. 600,351 and later
AEP Model: Serial No. 501,301 and later



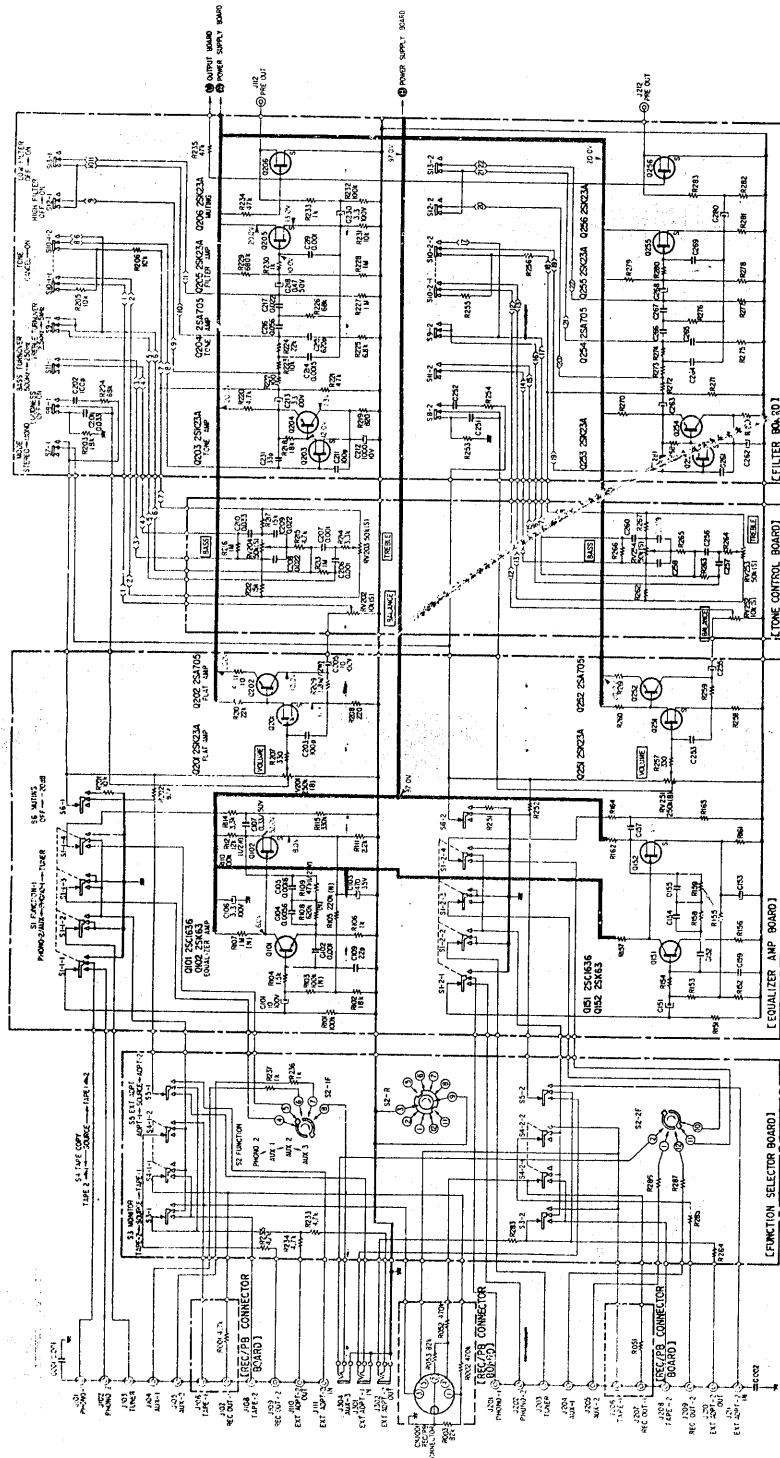
Note: B+ pattern

- Q203, 205, 206: 25K23A
- Q253, 255, 256: 25K23A
- Q204, 254: 25A704
- Q253, Q254, Q203: 0253 0254 0203
- Q255, Q205, Q204: 0255 0205 0204
- Q256, Q255: 0256 0255

1A-5030 1A-5030

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. 501,001 and later



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

3-10. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

The schematic diagram illustrates the internal circuitry of a radio receiver, organized into several functional sections:

- POWER SUPPLY BOARD:** Located at the top left, it includes a power transformer (P.T. 1000 VA) and a rectifier (6X4) to convert AC from the power line.
- RECTIFIER BOARD:** Situated at the top right, it contains a full-wave rectifier (6AR5) and a filter capacitor (C100) to provide a steady DC supply.
- IF AMPLIFIER BOARD:** The central section, featuring an IF amplifier (6BE6) and a detector (6BD6) to process the intermediate frequency signal.
- AF AMPLIFIER BOARD:** Located in the middle, it includes an AF amplifier (6BE7) and a volume control (6X5) to amplify the audio signal.
- OUTPUT BOARD:** The bottom section, containing an output transformer (P.T. 1000 VA) and a speaker (100 OHM) to produce sound.

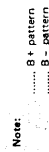
The diagram also includes a list of component values and a table of part numbers at the bottom:

Part Number	Value	Part Number	Value
0301	1500	0302	1500
0303	1500	0304	1500
0305	1500	0306	1500
0307	1500	0308	1500
0309	1500	0310	1500
0311	1500	0312	1500
0313	1500	0314	1500
0315	1500	0316	1500
0317	1500	0318	1500
0319	1500	0320	1500
0321	1500	0322	1500
0323	1500	0324	1500
0325	1500	0326	1500
0327	1500	0328	1500
0329	1500	0330	1500
0331	1500	0332	1500
0333	1500	0334	1500
0335	1500	0336	1500
0337	1500	0338	1500
0339	1500	0340	1500
0341	1500	0342	1500
0343	1500	0344	1500
0345	1500	0346	1500
0347	1500	0348	1500
0349	1500	0350	1500
0351	1500	0352	1500
0353	1500	0354	1500
0355	1500	0356	1500
0357	1500	0358	1500
0359	1500	0360	1500
0361	1500	0362	1500
0363	1500	0364	1500
0365	1500	0366	1500
0367	1500	0368	1500
0369	1500	0370	1500
0371	1500	0372	1500
0373	1500	0374	1500
0375	1500	0376	1500
0377	1500	0378	1500
0379	1500	0380	1500
0381	1500	0382	1500
0383	1500	0384	1500
0385	1500	0386	1500
0387	1500	0388	1500
0389	1500	0390	1500
0391	1500	0392	1500
0393	1500	0394	1500
0395	1500	0396	1500
0397	1500	0398	1500
0399	1500	0400	1500

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

- Conductor Side -

- Conductor Side -



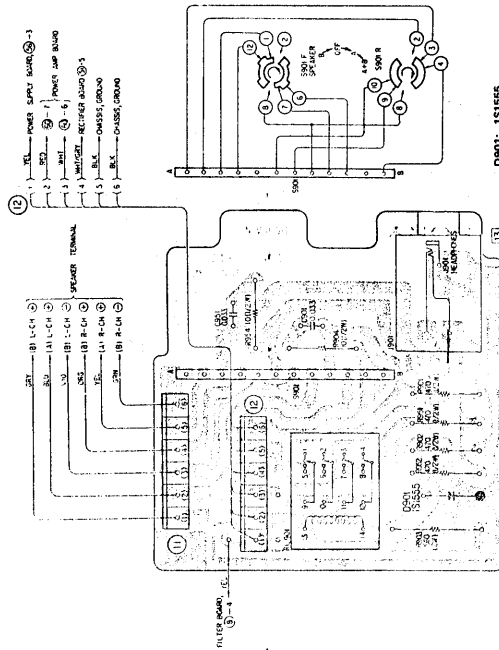
D301, 303 } VO-1221
D351, 353 }



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3-12. MOUNTING DIAGRAM - OUTPUT BOARD -
- Conductor Side -

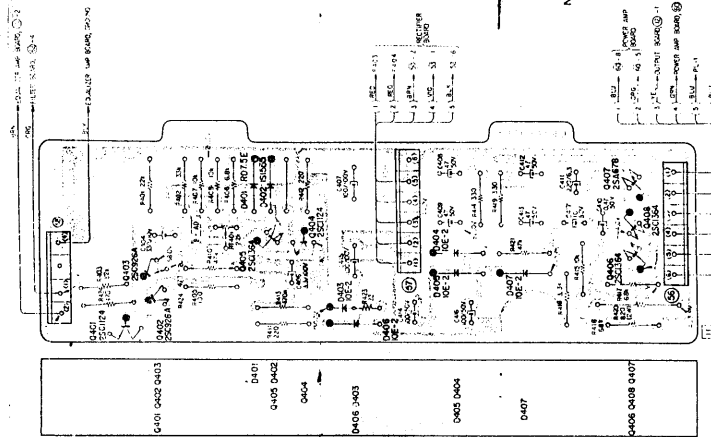
UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900



D981: 1S1555

3-13. MOUNTING DIAGRAM - POWER SUPPLY BOARD -
- Conductor Side -

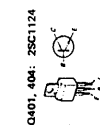
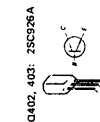
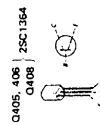
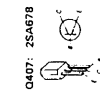
UK Model: Up to Serial No. 600,350
AEP Model: Up to Serial No. 501,900



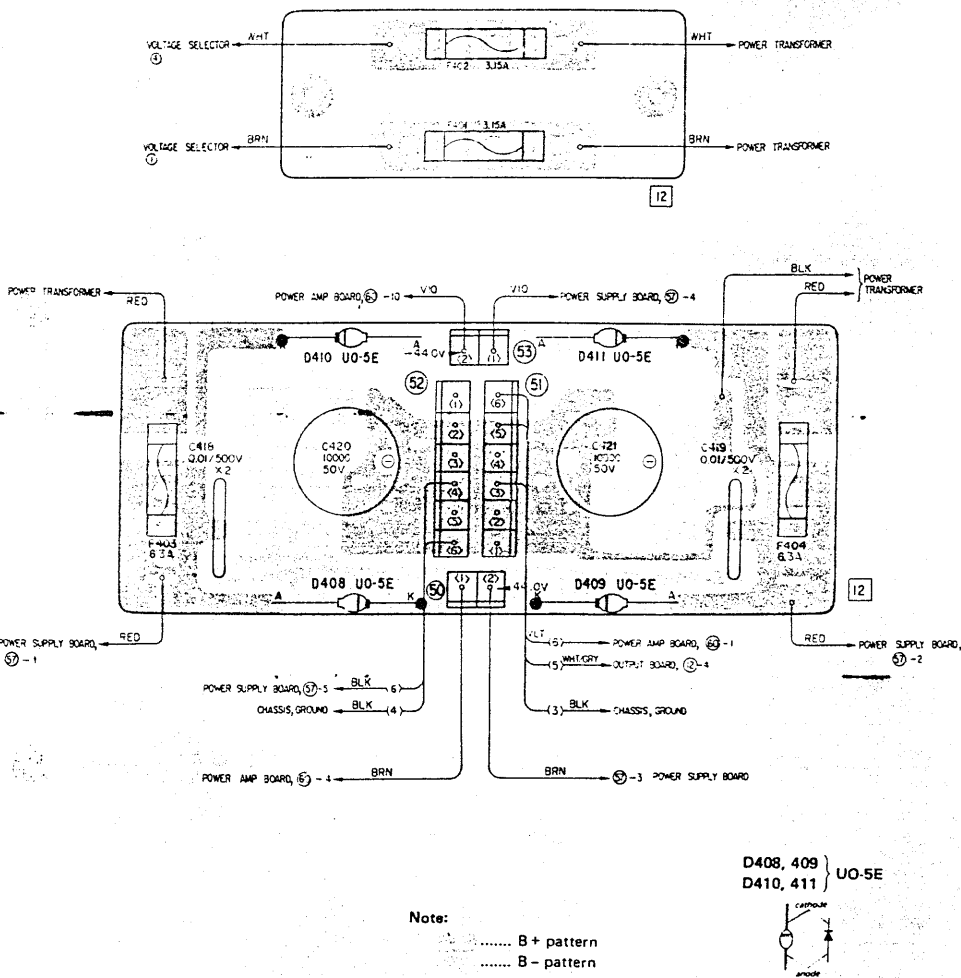
Note:

..... B + BATTERY
..... B - BATTERY

D401: R075E
D402: 1S1555
D403: 407: 10E 2

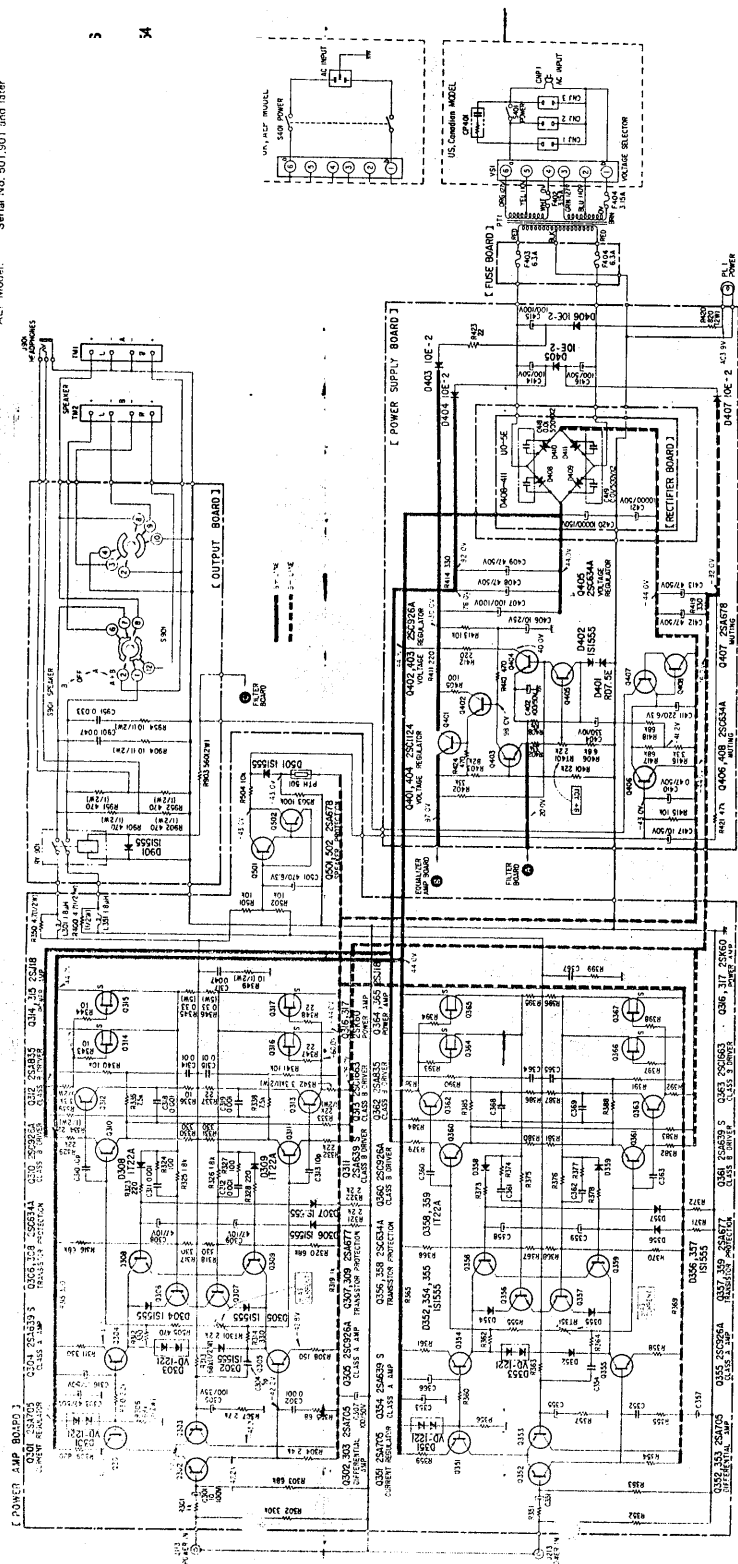


3-14. MOUNTING DIAGRAM — RECTIFIER/FUSE BOARDS —
 — Component Side —



3-15. SCHEMATIC DIAGRAM - POWER AMPLIFIER SECTION -

US Model:	Serial No. 600,001 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



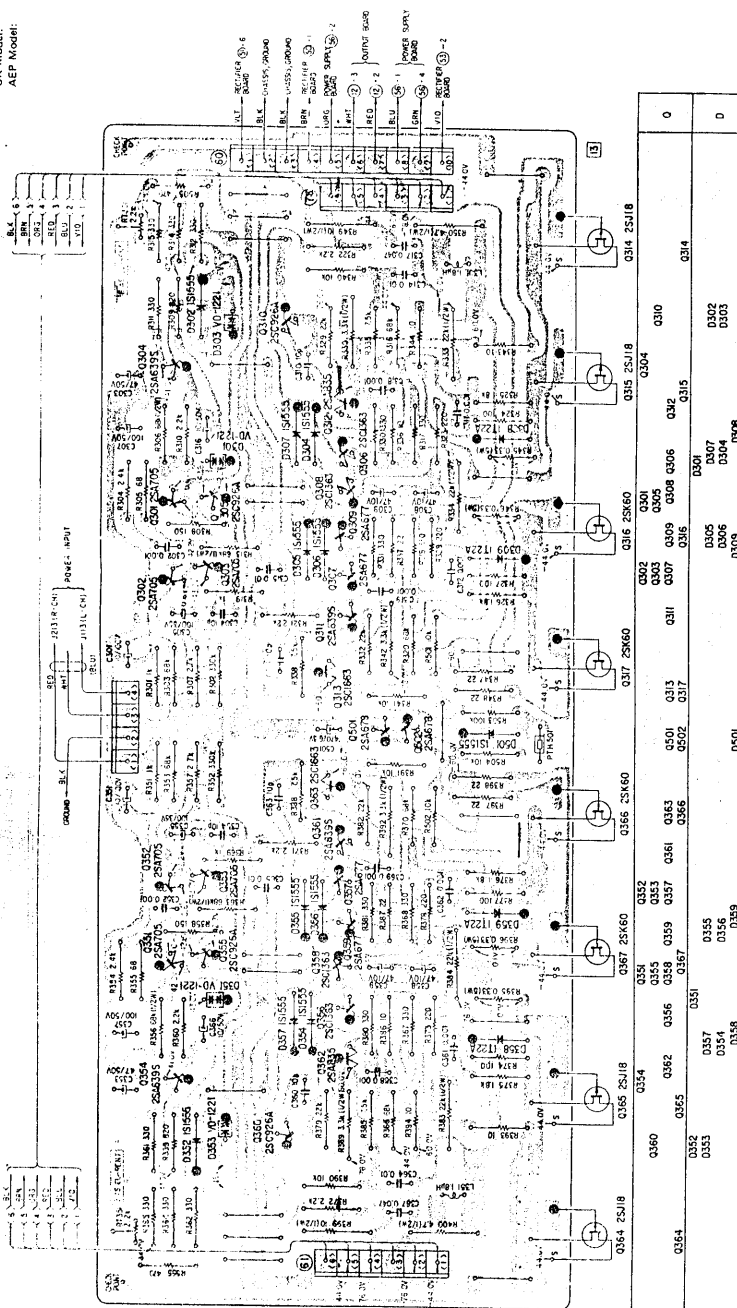
Note:
 All resistance values are in ohms. $k = 1,000$, $M = 1,000$ k.
 All capacitance values are in μF except as indicated with p, which means pF .
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
 Voltage variations may be noted due to normal production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

TA-5650 1A-5650

3-16. MOUNTING DIAGRAM - POWER 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



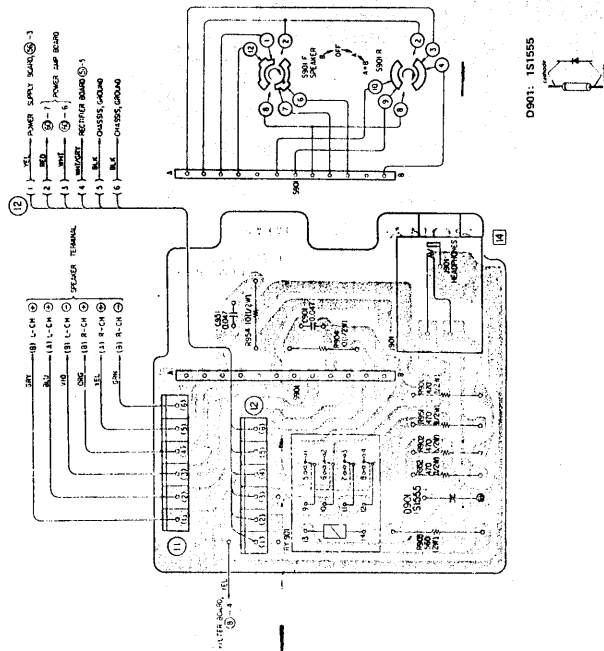
Note:
..... B+ pattern
..... B- pattern

D308, 309 } 1722A
D358, 359 }
D302, 352 }
D304 - 307 } 1S1555
D354 - 357 }
D501 }
D301, 303 } VD-1221
D351, 353 }
D316, 317 } 25K40
D366, 367 }
D314, 315 } 25J18
D384, 385 }
D312, 382 } 25A835
D306, 308 } 25C1863
D356, 358 }
D305, 310 } 25C265A
D355, 360 }
D304, 311 } 25A6350
D354, 361 }
D313, 363 } 25C1683
D301 - 303 } 25A705
D351 - 353 }
D307, 309 } 25A677
D327, 359 }
D301, 502 } 25A678

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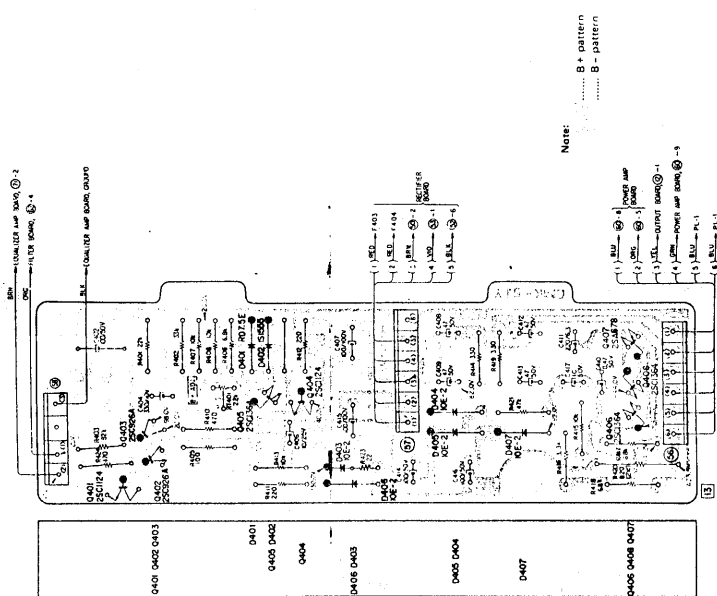
3-17. MOUNTING DIAGRAM - OUTPUT BOARD -
- Conductor Side -

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

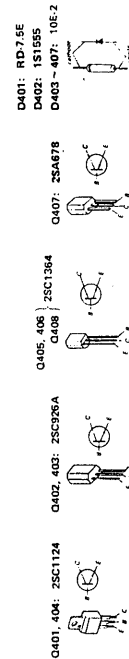


3-18. MOUNTING DIAGRAM - POWER SUPPLY BOARD -
- Conductor Side -

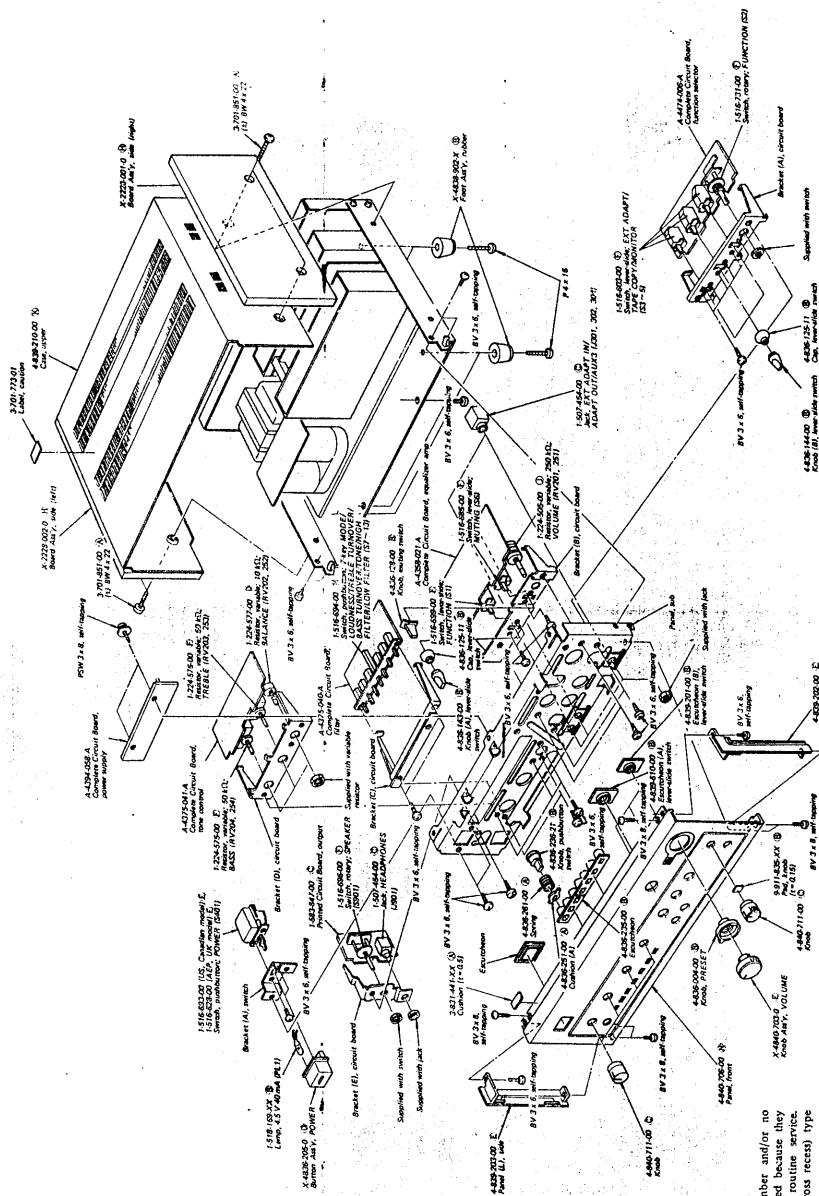
US Model: Serial No. 800,001 and later
Canadian Model: Serial No. 700,001 and later
UK Model: Serial No. 600,351 and later
AEP Model: Serial No. 501,901 and later



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

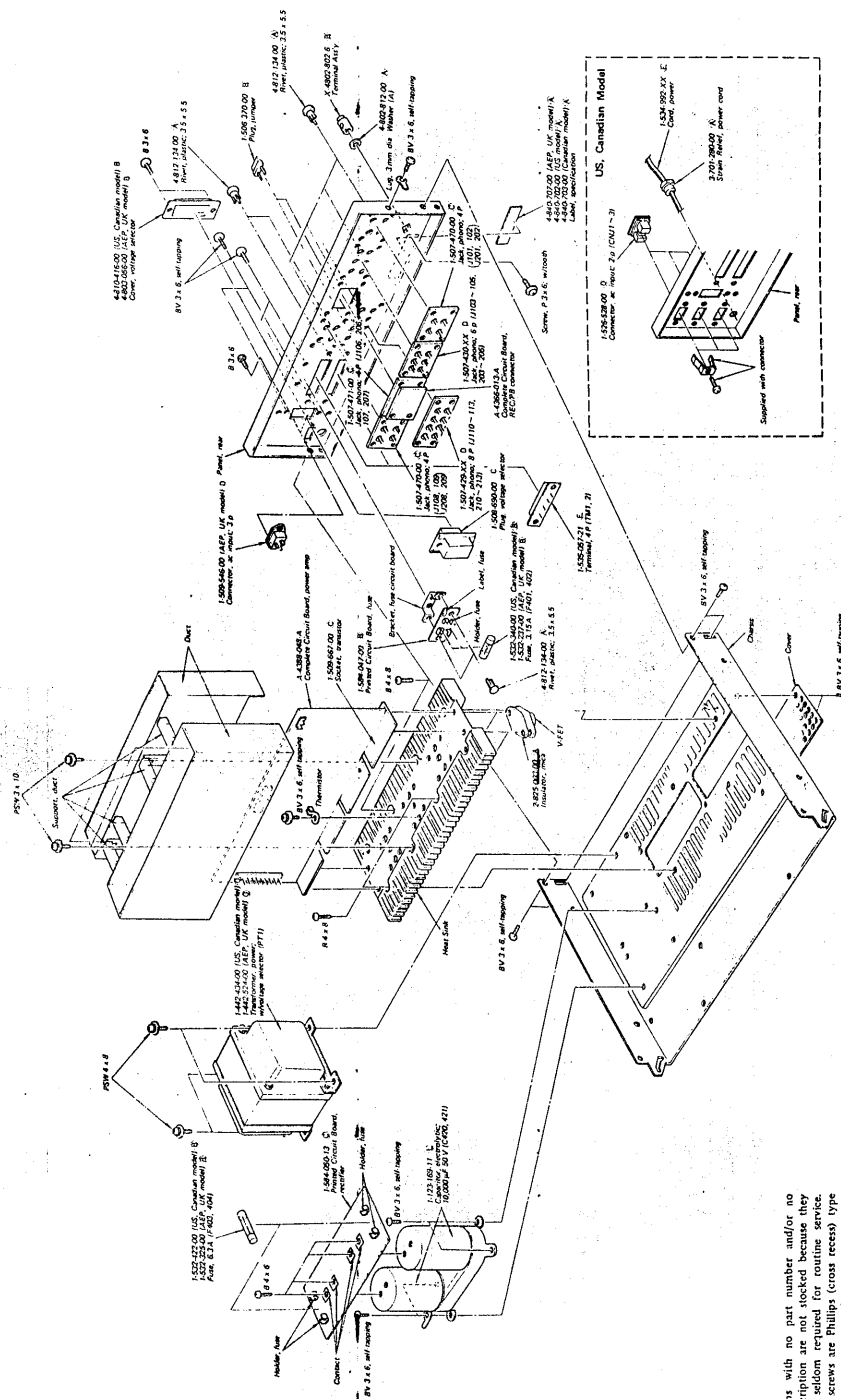


SECTION 4
EXPLODED VIEWS



Note:
 1. Items with no part number and/or no description are not stocked because they are seldom required for routine service.
 2. All screws are Phillips (cross recess) type unless otherwise noted.
 3. = slotted head
 4. The correct letters (A to D) are applicable for European model only.

(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 (Ⓢ to Ⓠ) are applicable for European model only.

SECTION 5 ELECTRICAL PARTS LIST

TA-5650 TA-5650

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

Mark	Applicable Serial No.
1	US model: Serial No. 501,501 and later
2	UK model: Serial No. 501,501 and later
3	Canada model: Serial No. 501,501 and later
4	UK model: Serial No. 501,501 and later
5	UK model: Serial No. 501,501 and later

Ref. No. Part No. Description

COMPLETE CIRCUIT BOARDS

- A-4358-021-A Equalizer Amp
- A-4356-011-A REC/PB Connector
- A-4375-040-A Filter
- A-4375-041-A TO-2 Control
- A-4388-018-A Power Amp
- A-4394-038-A Power Supply
- A-4471-006-A Function Selector

PRINTED CIRCUIT BOARDS

- I-583-947-00 Output
- I-584-047-00 Rectifier
- I-584-050-13 Rectifier

SEMICONDUCTORS

Transistors

- Q101,151 2SC1636
- Q102,152 2SC63
- Q201,251 2SK23A
- Q202,252 2SA705
- Q301,351 2SK23A
- Q302,352 2SA705
- Q303,353 2SK23A
- Q304,354 2SK23A
- Q305,355 2SK23A
- Q306,356 2SK23A
- Q307,357 2SA677
- Q308,358 2SC1364
- Q309,359 2SA677
- Q310,360 2SC926A
- Q311,361 2SC639S
- Q312,362 2SA835
- Q313,363 2SC1663

CAPACITORS

All capacitors are in μF and electrolytic type unless otherwise indicated.
30 or less working volts are omitted except for electrolytic type. (p = μF)

- C001,002 1-102-074-11 A 0.001 ceramic
- C101,151 1-121-748-11 A 10 25V
- C102,152 1-121-126-11 A 10 100V
- C103,153 1-108-227-12 A 0.001 mylar
- C104,154 1-121-659-11 B 2200 10V
- C105,155 1-121-361-11 B 470 35V
- C106,156 1-103-743-11 A 0.0056 polystyrol
- C107,157 1-103-709-11 A 0.0016 polystyrol
- C108,158 1-121-995-11 B 3.3 100V
- C109,159 1-105-729-12 A 0.22 100V mylar
- C110,160 1-108-822-12 A 0.33 50V ceramic
- C111,161 1-102-967-11 A 21p ceramic
- C201,251 1-108-591-12 A 0.033 mylar
- C202,252 1-102-973-11 A 100p ceramic
- C203,253 1-102-973-11 A 100p ceramic
- C204,254 1-121-051-11 A 10 50V
- C205,255 1-121-126-11 A 10 100V
- C206,256 1-108-555-12 A 0.001 mylar
- C207,257 1-108-587-12 A 0.022 mylar
- C208,258 1-108-587-12 A 0.033 mylar
- C209,259 1-108-591-12 A 0.033 mylar
- C210,260 1-102-973-11 A 100p ceramic
- C211,261 1-121-736-11 A 1000 10V
- C212,262 1-121-914-11 B 3.3 50V
- C213,263 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
- C220,270 1-121-914-11 B 3.3 50V
- C221,271 1-102-963-11 A 33p ceramic

COIL

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

TRANSFORMER

- PT1 1-443-434-00 Power (USA, Canada model)
- PT2 1-443-534-00 Power (AEP, UK model)

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

Ref. No.	Part No.	Description
C301,351	1-121-748-11 A 10 25V	
C302,352	1-121-126-11 A 10 100V	
C303,353	1-121-658-11 A 47 50V	
C304,354	1-102-807-11 A 5p ceramic	
C305,355	1-121-419-11 B 220 6.3V	
C306,356	1-121-357-11 B 100 35V	
C307,357	1-123-059-11 B 160 50V	
C308,358	1-121-977-11 B -7 10V	
C309,359	1-102-947-11 A 10p ceramic	
C310,360	1-108-227-12 A 0.001 mylar	
C311,361	1-102-947-11 A 10p ceramic	
C312,362	1-102-947-11 A 10p ceramic	
C313,363	1-108-227-12 A 0.01 mylar	
C314,364	1-121-469-11 A 10 6.3V	
C315,365	1-121-738-11 A 10 50V	
C316,366	1-108-344-12 A 0.033 mylar	
C317,367	1-108-868-12 A 0.047 mylar	
C318,368	1-108-227-12 A 0.001 mylar	
C319,369	1-121-417-11 B 100 50V	
C402	1-121-805-11 B 330 10V	
C404	1-121-995-11 A 3.3 100V	
C406	1-121-398-11 A 40 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	1-102-555-11 A 0.01 500V ceramic	
C420,421	1-123-169-11 C 10000 50V	
C501	1-121-419-11 B 220 6.3V	
C502	1-123-077-11 B 470 6.3V	
C503,551	1-108-244-12 A 0.033 mylar	
C504,552	1-108-868-12 A 0.047 mylar	

TA-5550 11A-5550

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

Ref. No.	Part No.	Description
RESISTORS		
All resistors are in ohms. Regular type ± 5%, ½W carbon and composition resistors are omitted. Check the schematic diagram for the resistance values. (k = 1000, M = 1000k)		
R109,159	1-244-913-11	(A) 47k ½W carbon
R112,162	1-244-899-11	(A) 12k ½W carbon
R209,259	1-244-879-11	(A) 1.8k ½W carbon
R306,356	1-244-917-11	(A) 68k ½W carbon
R313,363	1-244-917-11	(A) 68k ½W carbon
R333,383	1-244-905-11	(A) 22k ½W carbon
R339,389	1-211-650-11	(A) 3.3k ½W carbon
R342,392		
R345,395	1-217-157-11	(A) 0.33 5W wire-wound
R346,396		
R349,399	1-211-590-11	(A) 10 ½W carbon
R350,450	1-244-817-11	(A) 4.7 ½W carbon
R420	1-206-662-11	(A) 820 2W metal oxide
R901,951	1-244-865-11	(A) 470 ½W carbon
R902,952		
R903	1-206-658-11	(A) 560 2W metal oxide
R904,905	1-211-590-11	(A) 10 ½W 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	(D) 250k variable; VOLUME
RV202,252	1-224-577-00	(D) 10k variable; BALANCE
RV203,253	1-224-576-00	(D) 50k variable; TREBLE
RV204,254	1-224-575-00	(D) 50k variable; BASS

SWITCHES

S1	1-516-699-00	(D) Lever-slide, FUNCTION
S2	1-516-731-00	(D) Rotary, FUNCTION
S3~5	1-516-603-00	(D) Lever-slide, EXT ADAPT, TAPE COPY, MONITOR
S6	1-516-685-00	(D) 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

JACKS

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		
J103~105	1-507-430-XX	(D) Phono, 6-p; TUNER, AUX 1, 2
J203~205		
J106,206	1-507-471-00	(C) Phono, 4-p; TAPE 1, REC OUT 1
J107,207		
J108,208	1-507-470-00	(C) Phono, 4-p; TAPE 2, REC OUT 2
J109,209		
J110~113	1-507-429-XX	(D) Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN
J210~213		
J301,302	1-507-454-00	(C) EXT ADAPT IN, ADAPT OUT, AUX 3
J304		

MISCELLANEOUS

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

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

Ref. No.	Part No.	Description
ACCESSORIES		
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	(D) Manual, instruction (Canada, UK and AEP model)	
3-780-566-21	(D) Manual, instruction (USA model)	
3-793-520-82	(A) Card, guaranty (UK model)	

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