TA-A300

SERVICE MANUAL

AEP Model
UK Model

SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)

at 1 kHz
90 W + 90 W (5% THD, 4 ohms)
at 20 Hz – 20 kHz
60 W + 60 W (0.05% THD, 4 ohms)
at 40 Hz – 12.5 kHz
72 W + 72 W (0.05% THD, 4 ohms)

Power bandwidth (IHF)
7 Hz - 40 kHz (4 ohms, 30 watts)

Dynamic headroom
1.6 dB ('78 IHF)

Harmonic distortion
Less than 0.05% at rated output

Intermodulation (IM) distortion (60 Hz : 7 kHz = 4 : 1)
Less than 0.05% at rated output

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
TUNER, CD, VIDEO/AUX, TAPE1, TAPE2/DAT:
7 Hz - 100 kHz ±3 dB

Residual noise: Less than 150 μV (8 ohms, network A)

Damping factor: 50 (8 ohms, 1 kHz)

Input

Input jack		Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	MM	Phono	2.0 mV	50 kilohms	88 dB 86 dB* (A, 2.0 mV)
	MC	Phono	170 μV	100 ohms	68 dB 75 dB* (A, 170 μV)
TUNER CD VIDEO/AUX TAPE		Phono	150 mV	50 kilohms	100 dB 88 dB* (150 mV)

*'78 IHF

Output

REC OUT	Phono jacks	Voltage 150 mV Impedance 1 kilohm
SPEAKERS	—	Accepts speakers of 4 - 16 ohms.
HEAD-PHONES	Stereo phone jack	Accepts low and high impedance headphones.

Tone controls

	Response	Turnover frequency
BASS	±10 dB (100 Hz)	500 Hz
TREBLE	±10 dB (15 kHz)	3 kHz

Loudness (Attenuation 30 dB)
+6 dB (100 Hz)
+2 dB (10 kHz)

Muting: –20 dB

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS 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.

MICROFILM

INTEGRATED STEREO AMPLIFIER

SONY®

AUD

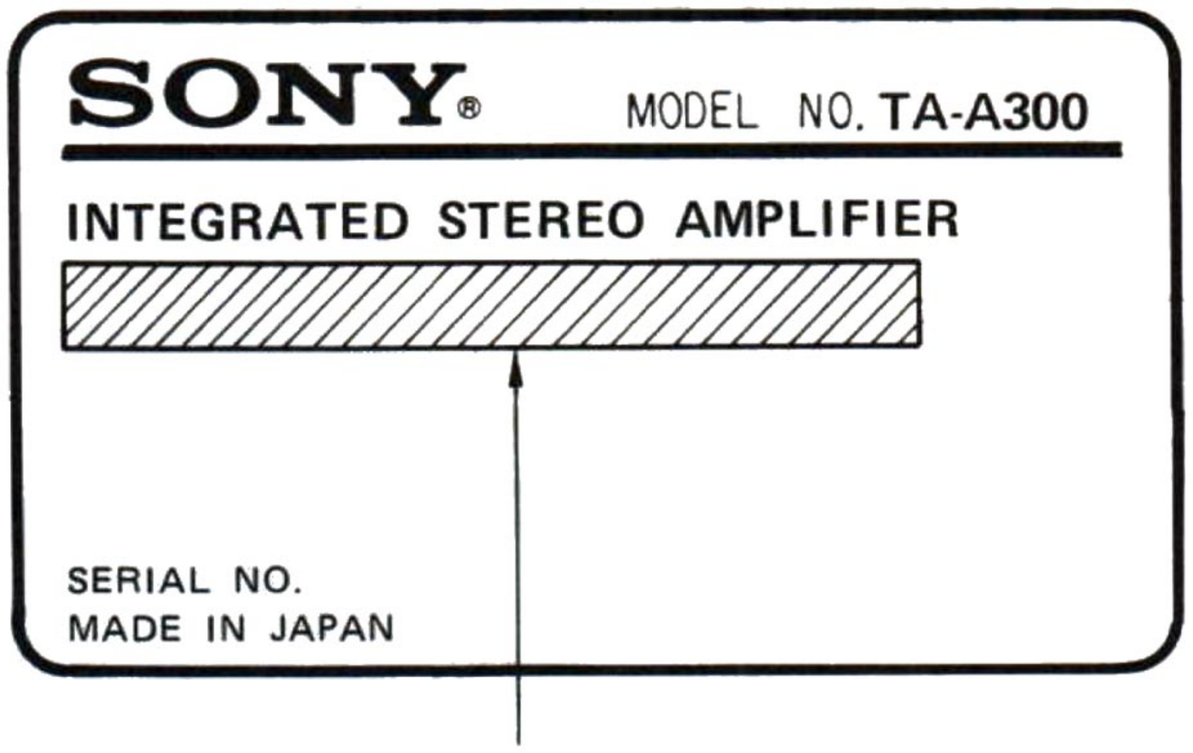
www.hifiengine.com

General

System	Preamplifier: Low-noise, high-gain equalizer amplifier Power amplifier: Pure-complementary SEPP OCL power amplifier with all stages directly coupled
Power requirements	
	G-AEP, AEP model: 220 V AC (or 240 V AC adjustable by authorized Sony personnel), 50/60 Hz UK model: 240 V AC (or 220 V AC adjustable by authorized Sony personnel), 50/60 Hz
Power consumption	
	G-AEP, AEP model: 135 W UK model: 290 W
AC outlets	G-AEP, AEP model: 3 switched total 100 watts max. UK model: 1 switched 100 watts max.
Dimensions	G-AEP, AEP model: Approx. 430 × 130 × 360 mm (w/h/d) (17 × 5 1/8 × 14 1/4 inches) UK model: Approx. 430 × 130 × 350 mm (w/h/d) (17 × 5 1/8 × 13 7/8 inches)
Weight	Approx. 8.3 kg (18 lb 5 oz)

MODEL IDENTIFICATION

— Specification Label —



G-AEP, AEP model: AC: 220 V ~ 50/60 Hz 135 W
UK model: AC: 240 V ~ 50/60 Hz 290 W

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	Model Identification	2
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FEATURES

- High-power output
  60 W + 60 W (4 ohms)
- MC (moving-coil) cartridge selection
- Tape-to-tape recording

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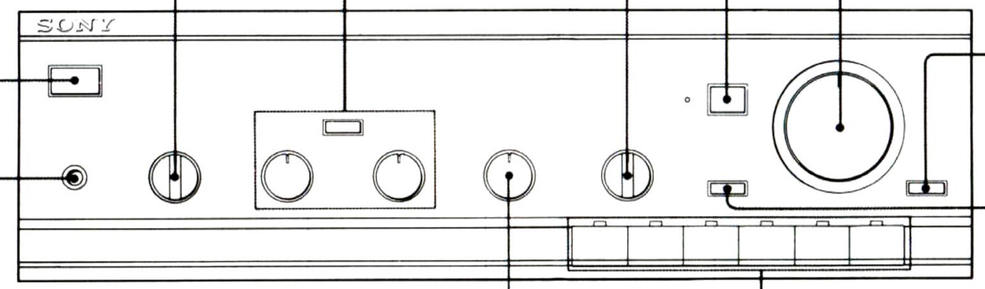
LOCATION AND FUNCTION OF CONTROLS



REC OUT (recording output) SELECTORs (TA-A400 only)
Select the desired program source for recording.
(See page 9.)

TONE switch and controls

MUTING switch
Depress to decrease the sound level temporarily.
Press again to restore the previous sound level.

SPEAKERS selector
Select speaker system A or B, or both.
Set to OFF when using only headphones.

VOLUME control

POWER switch

CARTRIDGE selector
Select according to the cartridge type of your turntable system.

⏢ MC (depressed)	For moving-coil cartridge
⊓ MM (released)	For moving-magnet cartridge

HEADPHONES jack (stereo phone jack)

LOUDNESS switch
Depress to reinforce bass or treble especially when listening at a low volume.
To disengage the switch, press it again.

INPUT SELECTORs

BALANCE control

INPUT SELECTORs
Select the desired program source for listening.

TAPE 1	To play back the tape recorder connected to the TAPE 1 jacks
TAPE 2/DAT	To play back the tape recorder connected to the TAPE 2/DAT jacks
VIDEO/AUX	To listen to the sound of the video equipment or other audio equipment connected to the VIDEO/AUX INPUT jacks
CD	To play back the compact disc player connected to the CD INPUT jacks
TUNER	To listen to the radio programs of the tuner connected to the TUNER INPUT jacks
PHONO	To play the turntable system connected to the PHONO INPUT jacks

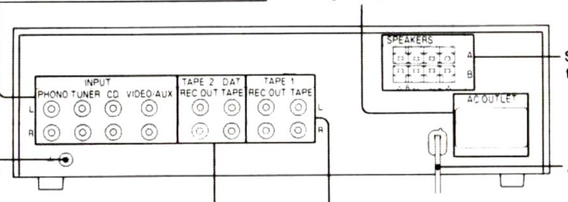
PARTS IDENTIFICATION OF THE REAR PANEL

INPUT jacks (phono)

PHONO	Connect a turntable system.
TUNER	Connect a tuner.
CD	Connect a compact disc player.
VIDEO/AUX	Connect to the audio output jacks of a VTR or other audio equipment.

SWITCHED AC OUTLETs
Use these to power other audio units whose power consumption is less than 100 watts.
These AC outlets are controlled by the POWER switch.

Caution
Do not connect any home electrical appliances or other high-wattage equipment to these AC outlets.



SPEAKERS A, B terminals

⏚ (phono ground) terminal
To prevent hum, be sure to connect the ground wire of the turntable system.

AC power cord

TAPE 2/DAT input/output jacks (phono)
Connect to the input and output jacks of a tape recorder.

REC OUT	To the LINE IN jacks
TAPE	To the LINE OUT jacks

TAPE 1 input/output jacks (phono)
Connect to the input and output jacks of a tape recorder.

REC OUT	To the LINE IN jacks
TAPE	To the LINE OUT jacks

SECTION 1
ELECTRICAL ADJUSTMENTS

NOTE:

- Adjustments should be performed 10 minutes after the POWER switch is on (POWER ON).

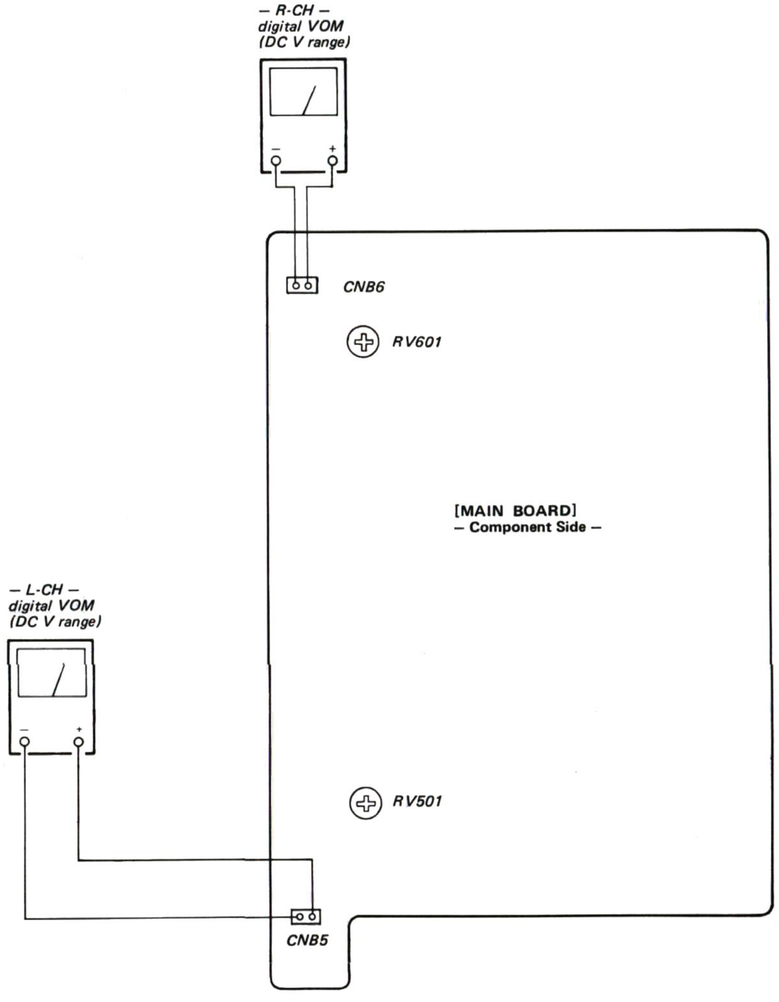
Bias Current Adjustment

Setting:

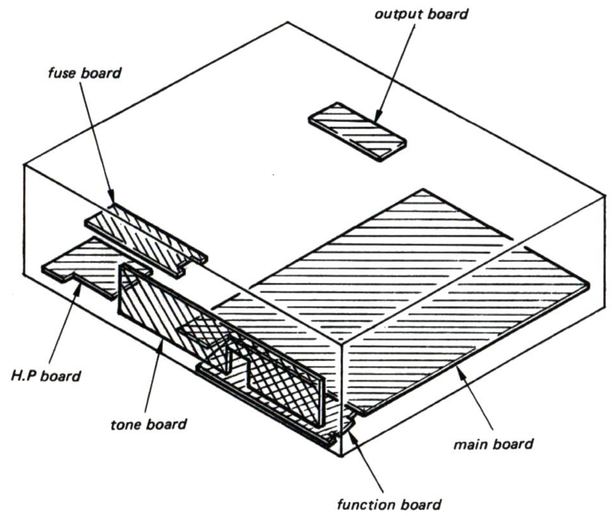
AUDIO SOURCE selector: TUNER
Input Signal: No signal input

Procedure:

Adjust RV501 (L-CH) and RV601 (R-CH) so as to obtain 3mV at CNB5 (L-CH) and CNB6 (R-CH) respectively.



- **Circuit Boards Location**

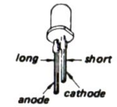


- **Semiconductor Lead Layouts**

BA4560

2SA1175
2SC2785

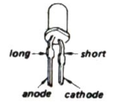
SEL1910W



M5218L
μPC1237HA

2SA1346
2SC634SP

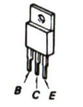
SEL4510C-C



2SA979

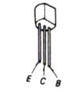
2SA1491
2SC3855

2SA985
2SA985A
2SB1094-L
2SC2275
2SC2275A
2SC3514
2SD1585-L

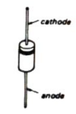


2SK246GR3

2SA988
2SC1383
2SC1841
2SC2545



10E2N
1SS131
1SS132
HZ15-2L
HZ3B-2L
HZ6A-2L
HZ7B-2K



SECTION 2
DIAGRAMS

2-1. MOUNTING DIAGRAM

- See page 6 for Circuit Boards Location.
- See page 7 for Semiconductor Lead Layouts.

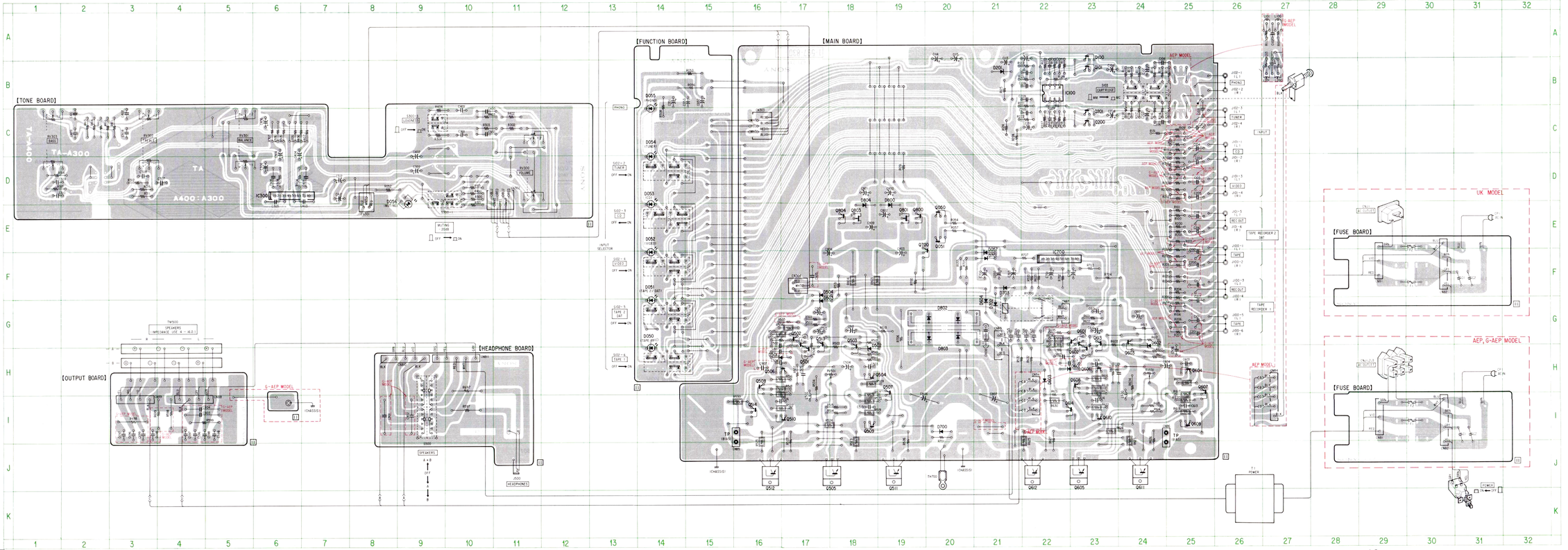
Note:

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

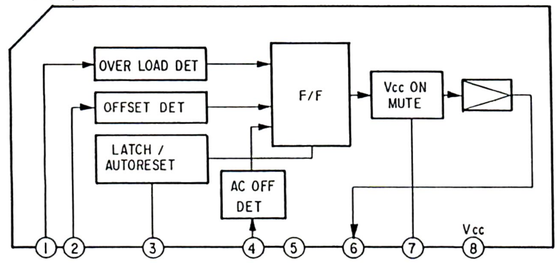
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.

● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D050	G-14	Q505	J-18
D051	F-14	Q506	H-16
D052	E-14	Q507	I-19
D053	D-14	Q508	H-16
D054	C-14	Q509	I-18
D055	B-14	Q510	I-17
D056	D-9	Q511	J-19
D057	F-21	Q512	J-16
D201	B-21	Q513	G-17
D501	H-16	Q514	I-16
D502	H-18	Q601	G-23
D503	G-17	Q602	H-23
D504	F-17	Q603	H-24
D601	H-23	Q604	H-25
D602	H-24	Q605	J-23
D603	H-22	Q606	H-23
D604	G-21	Q607	I-25
D700	I-20	Q608	H-23
D701	F-21	Q609	I-25
D702	G-21	Q610	I-23
D703	F-21	Q611	J-24
D800	E-19	Q612	J-22
D802	G-20	Q613	G-23
D803	G-20	Q614	I-22
D804	E-18	Q700	F-19
		Q800	E-19
IC100	B-22	Q801	E-19
IC300	D-6	Q803	E-18
IC700	F-22	Q804	E-18
Q050	E-20		
Q051	E-20		
Q100	B-23		
Q101	B-23		
Q200	C-23		
Q201	C-23		
Q501	H-17		
Q502	G-17		
Q503	H-18		
Q504	H-18		



• IC700 (μPC1237HA) BLOCK DIAGRAM



[MAIN BOARD]

[FUNCTION BOARD (1/2)]

[TONE BOARD]

[MAIN BOARD]

[HEADPHONE BOARD]

[OUTPUT BOARD]

[FUNCTION BOARD (2/2)]

[FUSE BOARD]

[FUSE BOARD]

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- : L-CH signal path.
- : R-CH signal path.
- : nonflammable resistor.
- : B+ bus.
- : B– bus.
- : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).

• Switch

Ref. No.	Switch	Position
S1	POWER	OFF
S101	REC OUT SELECTOR	TAPE1 → 2
S102-1	PHONO	OFF
S102-2	TUNER	OFF
S102-3	CD	ON
S102-4	VIDEO	OFF
S102-5	TAPE 2/DAT	OFF
S102-6	TAPE 1	OFF
S103	CARTRIDGE	MM
S300-1	MUTING	OFF
S300-2	LOUDNESS	OFF
S300-3	SUBSONIC	OFF
S303	TONE	OFF
S500	SPEAKERS	OFF

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

SECTION 3
EXPLODED VIEWS AND PARTS LIST

NOTE:

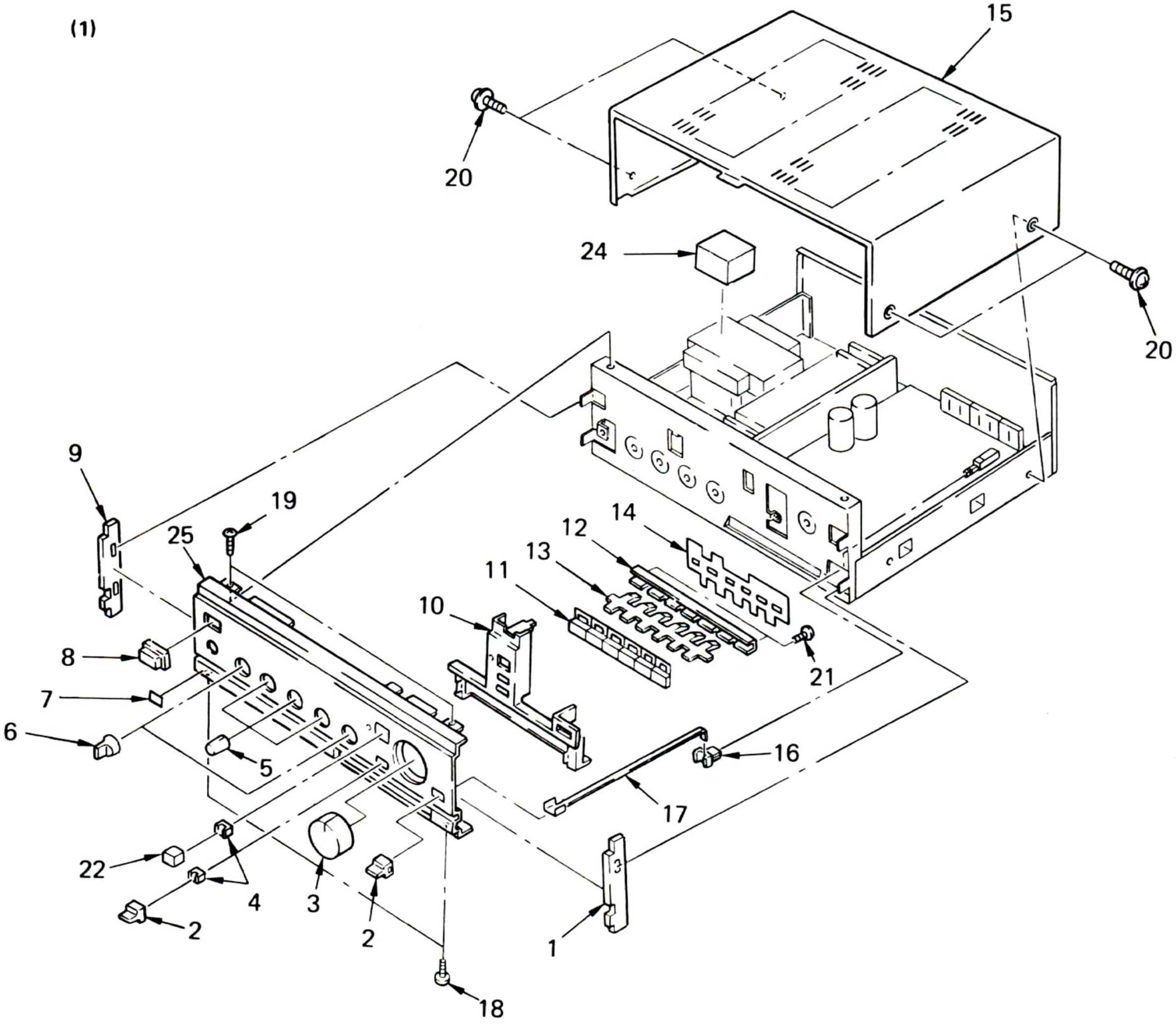
The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts of an assembled part are indicated with a collation number in the remark column.

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

(1)



No.	Part No.	Description	Remarks
1	*4-911-296-01	PANEL (RIGHT), SIDE	
2	3-315-105-21	KNOB (5X16), SQUARE	
3	X-4919-703-1	KNOB (VOL) ASSY	
4	*4-864-307-00	RING	
5	4-916-746-01	KNOB (DIA.21)	
6	4-916-745-01	KNOB (DIA.21)	
7	3-703-713-41	STICKER, SONY SYMBOL (10)	
8	4-917-460-01	KNOB, POWER	
9	4-911-297-01	PANEL (LEFT), SIDE	
10	4-921-304-01	ESCUTCHEON	
11	X-4904-478-1	BUTTON ASSY	
12	*4-911-292-01	BRACKET	
13	4-911-295-01	PLATE, LIGHT GUIDE	
14	4-921-301-01	PLATE, LIGHT INTERCEPTION	
15	4-911-285-01	CASE	
16	4-866-342-00	JOINT (B), KNOB	
17	*4-911-293-01	JOINT	
18	3-703-685-21	SCREW (+BV 3X8)	
19	7-682-148-01	SCREW +BVTT 3X8 (S)	
20	4-886-821-01	SCREW, M3 CASE	
21	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
22	4-908-875-01	KNOB, SQUARE	
24	*4-921-308-01	CUSHION	
25	X-4904-479-1	PANEL ASSY, FRONT	

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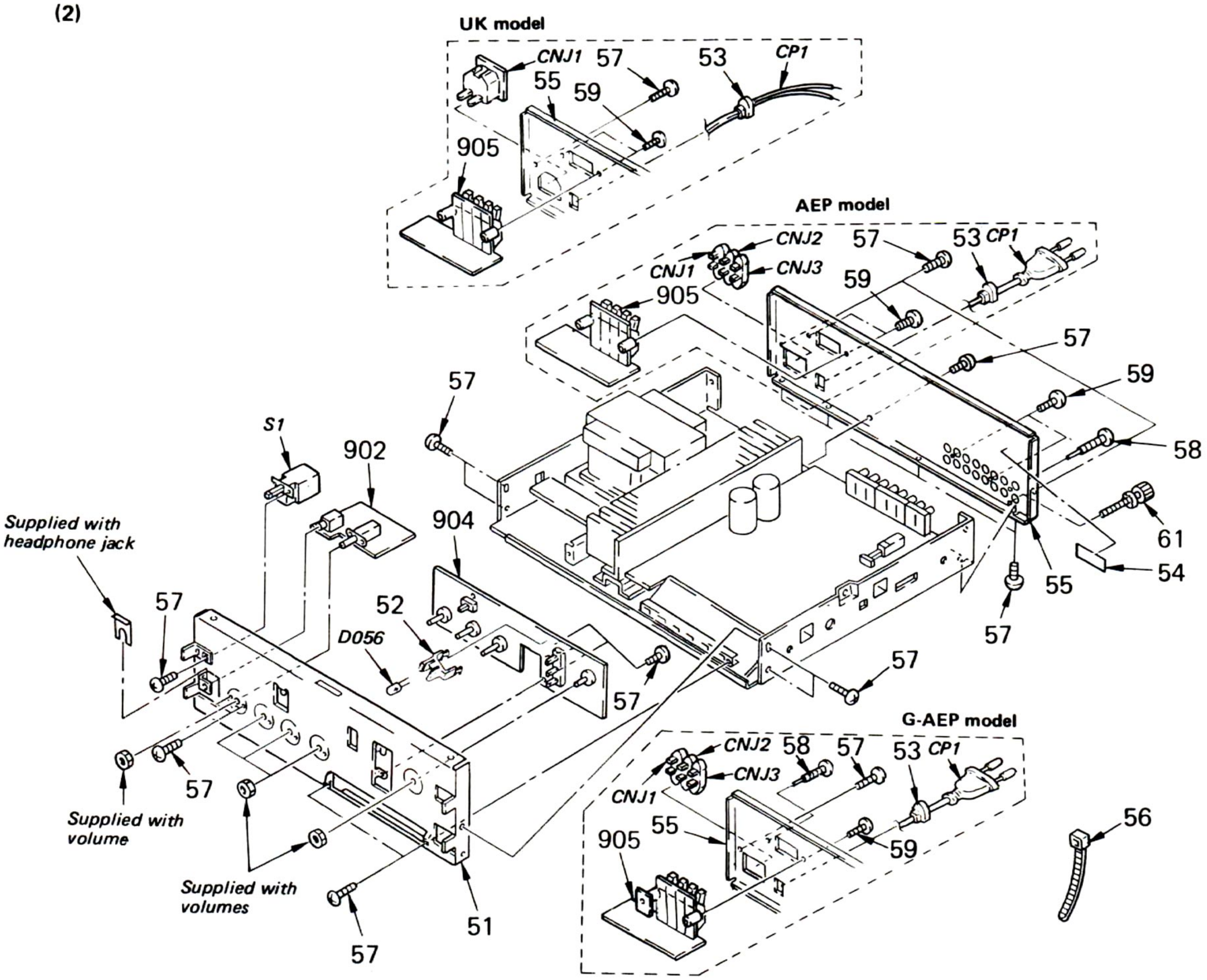
(2)



No.	Part No.	Description	Remarks
51	*4-921-306-01	CHASSIS, AMPLIFIER	
52	*4-919-716-01	HOLDER, LED	
53	*3-703-244-00	BUSHING (2104), CORD	
54	*3-701-030-00	LABEL, SERIAL NUMBER	
55	*4-911-288-71	(AEP).....PANEL, BACK	
	*4-911-288-81	(G-AEP)...PANEL, BACK	
	*4-911-288-91	(UK)......PANEL, BACK	
56	3-701-748-00	CLAMP	
57	7-682-148-01	SCREW +BVTT 3X8 (S)	
58	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
59	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
61	3-706-165-00	SCREW	

No.	Part No.	Description	Remarks
902	*1-623-045-11	PC BOARD, H.P	
904	*1-623-048-11	PC BOARD, TONE	
905	*1-623-049-11	PC BOARD, OUTPUT	
CNJ1 ⚠	.1-526-751-00	(UK).....OUTLET, AC	
CNJ1 ⚠	.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNJ2 ⚠	.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CNJ3 ⚠	.1-526-794-11	(AEP,G-AEP)...OUTLET, AC	
CP1 ⚠	.1-558-944-11	(AEP,G-AEP)...CORD, POWER	
CP1 ⚠	.1-558-946-11	(UK).....CORD, POWER	
D056	8-719-303-59	DIODE SEL1910W-C	
S1 ⚠	.1-554-880-11	SWITCH, PUSH (AC POWER)(1 KEY)	

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

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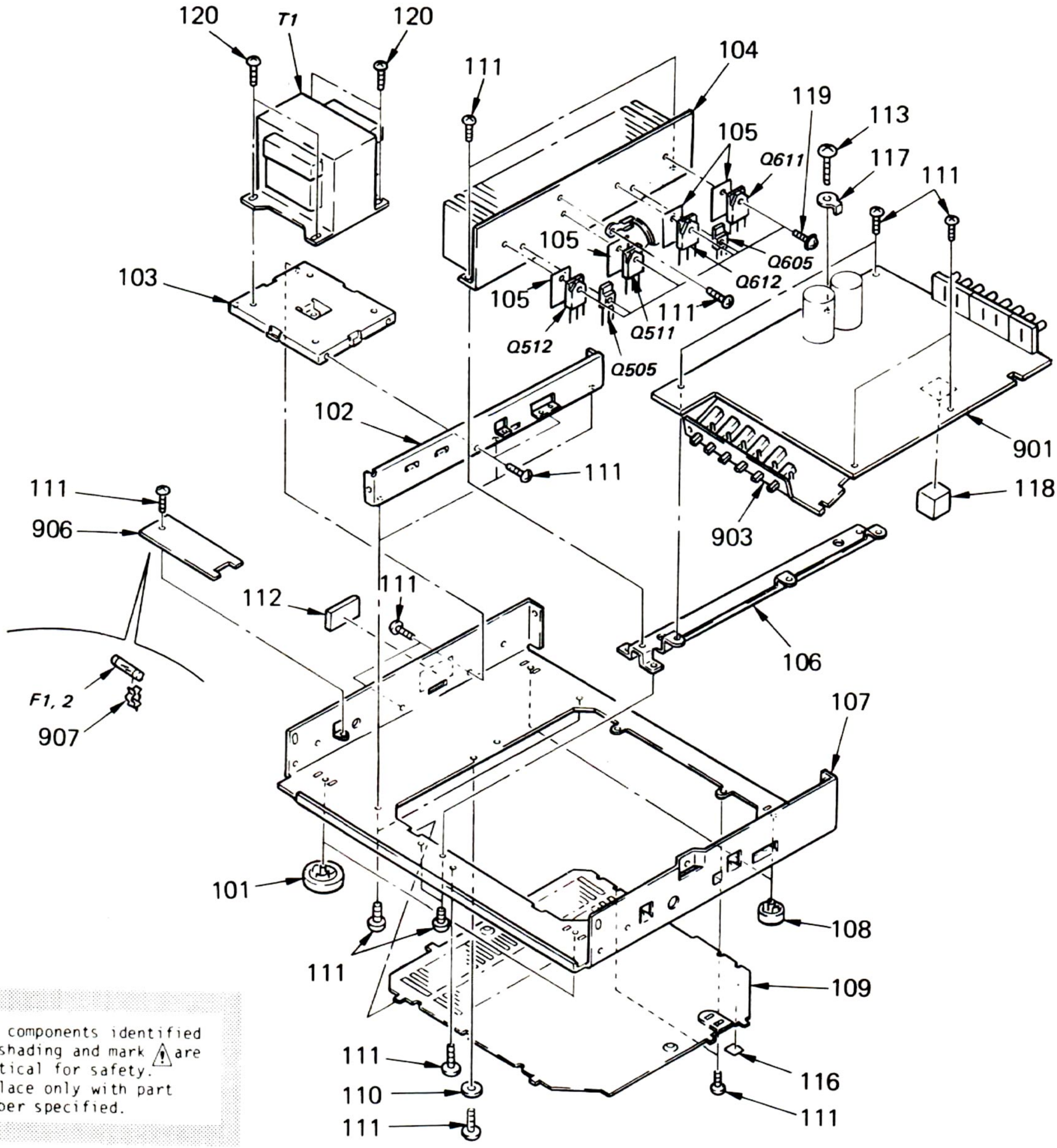
(3)



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

No.	Part No.	Description	Remarks
101	X-3337-104-1	FOOT ASSY, ORNAMENTAL	
102	*4-911-238-01	FRAME	
103	*4-911-294-01	BRACKET (TRANSFORMER)	
104	*4-921-303-01	HEAT SINK	
105	4-911-232-01	SHEET, INSULATING	
106	*4-911-280-01	BRACKET (H)	
107	*4-911-244-01	CHASSIS, MAIN	
108	X-4864-303-0	FOOT ASSY	
109	*4-911-283-01	PLATE, BOTTOM	
110	4-890-173-00	WASHER	
111	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
112	9-911-845-XX	SPACER	
113	3-703-685-21	SCREW (+BV 3X8)	
117	4-870-539-00	PLATE, GROUND	
118	*4-921-309-01	CUSHION	
119	7-682-649-09	SCREW +PSW 3X10	
120	7-682-560-04	SCREW +BVTT 4X6 (S)	

No.	Part No.	Description	Remarks
901	*A-4388-660-A	(AEP,UK)...MOUNTED PCB, MAIN	
	*A-4388-665-A	(G-AEP)....MOUNTED PCB, MAIN	
903	*1-623-046-11	PC BOARD, FUNCTION	
906	*1-623-050-11	PC BOARD, FUSE	
907	⚠1-533-183-11	HOLDER, FUSE	
F1	⚠1-532-237-00	FUSE, TIME-LAG T3.15A	
F2	⚠1-532-286-00	FUSE, TIME-LAG T2.5A	
Q505	8-729-107-25	TRANSISTOR 2SD1585-L	
Q511	8-729-111-74	TRANSISTOR 2SD1289-Q	
Q512	8-729-111-77	TRANSISTOR 2SB966-Q	
Q605	8-729-107-25	TRANSISTOR 2SD1585-L	
Q611	8-729-111-74	TRANSISTOR 2SD1289-Q	
Q612	8-729-111-77	TRANSISTOR 2SB966-Q	
T1	⚠1-448-952-11	TRANSFORMER, POWER	

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SECTION 4
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-4388-660-A	(AEP,UK)...MOUNTED PCB, MAIN			
	*A-4388-665-A	(G-AEP)....MOUNTED PCB, MAIN			
902	*1-623-045-11	PC BOARD, H.P			
903	*1-623-046-11	PC BOARD, FUNCTION			
904	*1-623-048-11	PC BOARD, TONE			
905	*1-623-049-11	PC BOARD, OUTPUT			
906	*1-623-050-11	PC BOARD, FUSE			
907	⚠ 1-533-183-11	HOLDER, FUSE			
C1	⚠ 1-161-744-00	CERAMIC	0.01MF		400V
C2	⚠ 1-161-744-00	CERAMIC	0.01MF		400V
C050	1-124-446-11	ELECT	47MF	20%	10V
C051	1-126-101-11	ELECT	100MF	20%	16V
C052	1-124-477-11	ELECT	47MF	20%	16V
C053	1-124-477-11	ELECT	47MF	20%	16V
C100	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C101	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C102	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C103	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C104	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C105	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C106	1-162-284-31	CERAMIC	150PF	10%	50V
C107	1-124-927-11	ELECT	4.7MF	20%	50V
C108	1-124-477-11	ELECT	47MF	20%	16V
C109	1-136-162-00	FILM	0.056MF	5%	50V
C110	1-136-155-00	FILM	0.015MF	5%	50V
C111	1-124-902-00	ELECT	0.47MF	20%	50V
C112	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C113	1-124-443-00	ELECT	100MF	20%	10V
C114	1-124-910-11	ELECT	47MF	20%	50V
C115	1-124-910-11	ELECT	47MF	20%	50V
C116	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C117	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C200	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C201	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C202	1-162-284-31	(G-AEP)...CERAMIC	150PF	10%	50V
C203	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C204	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C205	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C216	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C217	1-162-286-31	(G-AEP)...CERAMIC	220PF	10%	50V
C206	1-162-284-31	CERAMIC	150PF	10%	50V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C208	1-124-477-11	ELECT	47MF	20%	16V
C209	1-136-162-00	FILM	0.056MF	5%	50V

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Ref.No.	Part No.	Description			
C210	1-136-155-00	FILM	0.015MF	5%	50V
C211	1-124-902-00	ELECT	0.47MF	20%	50V
C212	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C300	1-162-280-31	CERAMIC	82PF	5%	50V
C301	1-136-159-00	FILM	0.033MF	5%	50V
C302	1-124-259-00	ELECT	4.7MF	20%	50V
C303	1-162-211-31	CERAMIC	33PF	5%	50V
C304	1-124-236-00	ELECT	47MF	20%	16V
C305	1-162-217-31	CERAMIC	56PF	5%	50V
C306	1-124-259-00	ELECT	4.7MF	20%	50V
C307	1-130-476-00	MYLAR	0.0027MF	5%	50V
C308	1-136-158-00	FILM	0.027MF	5%	50V
C309	1-130-481-00	MYLAR	0.0068MF	5%	50V
C310	1-136-163-00	FILM	0.068MF	5%	50V
C312	1-124-910-11	ELECT	47MF	20%	50V
C400	1-162-280-31	CERAMIC	82PF	5%	50V
C401	1-136-159-00	FILM	0.033MF	5%	50V
C402	1-124-259-00	ELECT	4.7MF	20%	50V
C403	1-162-211-31	CERAMIC	33PF	5%	50V
C404	1-124-236-00	ELECT	47MF	20%	16V
C405	1-162-217-31	CERAMIC	56PF	5%	50V
C406	1-124-259-00	ELECT	4.7MF	20%	50V
C407	1-130-476-00	MYLAR	0.0027MF	5%	50V
C408	1-136-158-00	FILM	0.027MF	5%	50V
C409	1-130-481-00	MYLAR	0.0068MF	5%	50V
C410	1-136-163-00	FILM	0.068MF	5%	50V
C412	1-124-910-11	ELECT	47MF	20%	50V
C501	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-161-322-00	(G-AEP)....CERAMIC	820PF	10%	50V
C502	1-162-291-31	(AEP,UK)...CERAMIC	560PF	10%	50V
C503	1-161-959-00	CERAMIC	22PF	10%	500V
C504	1-124-446-11	ELECT	47MF	20%	10V
C505	1-161-258-00	(G-AEP)....CERAMIC	8.2PF	10%	50V
C505	1-162-193-31	(AEP,UK)...CERAMIC	3.3PF	10%	50V
C506	1-161-959-00	CERAMIC	22PF	10%	500V
C510	1-124-446-11	ELECT	47MF	20%	10V
C512	1-124-446-11	ELECT	47MF	20%	10V
C513	1-136-153-00	FILM	0.01MF	5%	50V
C514	1-136-153-00	FILM	0.01MF	5%	50V
C515	1-136-163-00	FILM	0.068MF	5%	50V
C516	1-136-163-00	FILM	0.068MF	5%	50V
C517	1-162-211-31	(G-AEP)...CERAMIC	33PF	5%	50V
C596	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C597	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C598	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C599	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C601	1-124-927-11	ELECT	4.7MF	20%	50V
C602	1-161-322-00	(G-AEP)....CERAMIC	820PF	10%	50V
C602	1-162-291-31	(AEP,UK)...CERAMIC	560PF	10%	50V

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Ref.No.	Part No.	Description			
C603	1-161-959-00	CERAMIC	22PF	10%	500V
C604	1-124-446-11	ELECT	47MF	20%	10V
C605	1-161-258-00	(G-AEP)....CERAMIC	8.2PF	10%	50V
C605	1-162-193-31	(AEP,UK)...CERAMIC	3.3PF	10%	50V
C606	1-161-959-00	CERAMIC	22PF	10%	500V
C610	1-124-446-11	ELECT	47MF	20%	10V
C612	1-124-446-11	ELECT	47MF	20%	10V
C613	1-136-153-00	FILM	0.01MF	5%	50V
C614	1-136-153-00	FILM	0.01MF	5%	50V
C615	1-136-163-00	FILM	0.068MF	5%	50V
C616	1-136-163-00	FILM	0.068MF	5%	50V
C617	1-162-211-31	(G-AEP)...CERAMIC	33PF	5%	50V
C696	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C697	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C698	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C699	1-136-153-00	(G-AEP)...FILM	0.01MF	5%	50V
C700	1-124-446-11	ELECT	47MF	20%	10V
C701	1-124-444-00	ELECT	220MF	20%	6.3V
C702	1-124-443-00	ELECT	100MF	20%	6.3V
C703	1-124-446-11	ELECT	47MF	20%	10V
C800	1-124-122-11	ELECT	100MF	20%	50V
C801	1-124-122-11	ELECT	100MF	20%	50V
C802	1-124-910-11	ELECT	47MF	20%	50V
C803	1-126-104-11	ELECT	470MF	20%	35V
C804	1-126-104-11	ELECT	470MF	20%	35V
C806	1-125-478-11	ELECT(BLOCK)	10000MF	20%	42V
C807	1-125-478-11	ELECT(BLOCK)	10000MF	20%	42V
C808	1-102-355-00	CERAMIC	0.01MF		250V
C809	1-124-910-11	ELECT	47MF	20%	50V
C901	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C902	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C903	i-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C904	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C905	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C906	1-101-005-00	(G-AEP)...CERAMIC	0.022MF		50V
C907	1-101-005-00	(G-AEP)...CERAMIC	0.022MF		50V
CN301	*1-566-451-11	HOUSING, CONNECTOR 3P			
CN302	*1-566-452-11	HOUSING, CONNECTOR 7P			
CN303	*1-566-452-11	HOUSING, CONNECTOR 7P			
CN304	*1-566-451-11	HOUSING, CONNECTOR 3P			
CNB1	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P			
CNB2	*1-535-141-00	BASE POST 22MM (10MM PITCH) 4P			
CNB3	*1-535-116-00	TERMINAL			
CNB4	*1-535-117-00	(G-AEP)....TERMINAL			
CNB4	*1-535-118-00	(AEP,UK)...TERMINAL			
CNB5	*1-535-115-00	TERMINAL			
CNB6	*1-535-115-00	TERMINAL			
CNB7	*1-535-115-00	TERMINAL			
CNB8	*1-535-117-00	TERMINAL			
CNB9	*1-535-117-00	TERMINAL			
CNB10	*1-535-118-00	TERMINAL			
CNB11	*1-535-118-00	TERMINAL			
CNJ1	⚠.1-526-751-00	(UK).....OUTLET, AC			
CNJ1	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ2	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CNJ3	⚠.1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
CP1	⚠.1-558-944-11	(AEP,G-AEP)...CORD, POWER			
CP1	⚠.1-558-946-11	(UK).....CORD, POWER			
D050	8-719-303-64	DIODE SEL4510C-C			
D051	8-719-303-64	DIODE SEL4510C-C			
D052	8-719-303-64	DIODE SEL4510C-C			

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Ref.No.	Part No.	Description
D053	8-719-303-64	DIODE SEL4510C-C
D054	8-719-303-64	DIODE SEL4510C-C
D055	8-719-303-64	DIODE SEL4510C-C
D056	8-719-303-59	DIODE SEL1910W-C
D057	8-719-200-77	DIODE 10E2N
D201	8-719-910-75	DIODE HZ7B2L
D501	8-719-940-69	DIODE 1SS131
D502	8-719-910-62	DIODE HZ6A2L
D503	8-719-940-69	DIODE 1SS131
D504	8-719-940-69	DIODE 1SS131
D601	8-719-940-69	DIODE 1SS131
D602	8-719-910-62	DIODE HZ6A2L
D603	8-719-940-69	DIODE 1SS131
D604	8-719-940-69	DIODE 1SS131
D700	8-719-000-26	DIODE US1060M
D701	8-719-200-77	DIODE 10E2N
D702	8-719-000-26	DIODE US1060M
D703	8-719-000-26	DIODE US1060M
D800	8-719-910-52	DIODE HZ15-2L
D802	8-719-200-80	DIODE D300
D803	8-719-200-80	DIODE D300
D804	8-719-910-52	DIODE HZ15-2L
F1	⚠.1-532-237-00	FUSE, TIME-LAG T3.15A
F2	⚠.1-532-286-00	FUSE, TIME-LAG T2.5A
IC100	8-759-923-90	IC BA4560
IC300	8-759-600-02	IC M5218L
IC700	8-759-111-68	IC UPC1237HA
J100	1-507-911-11	JACK, PIN 6P
J101	1-507-911-11	JACK, PIN 6P
J102	1-507-788-00	JACK, PIN 4P
J500	1-507-855-00	JACK, LARGE TYPE
L100	1-413-101-00	(G-AEP)...COIL, INPUT
L101	1-413-101-00	(G-AEP)...COIL, INPUT
L200	1-413-101-00	(G-AEP)...COIL, INPUT
L201	1-413-101-00	(G-AEP)...COIL, INPUT
L500	*1-420-872-00	COIL, AIR CORE
L600	*1-420-872-00	COIL, AIR CORE
Q050	8-729-600-27	TRANSISTOR 2SC634SP
Q051	8-729-117-54	TRANSISTOR 2SA1175
Q100	8-729-354-52	TRANSISTOR 2SC2545-E
Q101	8-729-354-52	TRANSISTOR 2SC2545-E
Q200	8-729-354-52	TRANSISTOR 2SC2545-E
Q201	8-729-354-52	TRANSISTOR 2SC2545-E
Q501	8-729-697-92	TRANSISTOR 2SA979
Q502	8-729-600-27	TRANSISTOR 2SC634SP
Q503	8-729-600-27	TRANSISTOR 2SC634SP
Q504	8-729-104-91	TRANSISTOR 2SA1383
Q505	8-729-107-25	TRANSISTOR 2SD1585-L
Q506	8-729-104-18	TRANSISTOR 2SC3514
Q507	8-729-600-27	TRANSISTOR 2SC634SP
Q508	8-729-117-54	TRANSISTOR 2SA1175
Q509	8-729-127-53	TRANSISTOR 2SC2275-P
Q510	8-729-118-53	TRANSISTOR 2SA985 P
Q511	8-729-111-74	TRANSISTOR 2SD1289-Q
Q512	8-729-111-77	TRANSISTOR 2SB966-Q
Q513	8-729-108-14	TRANSISTOR 2SA988-F
Q514	8-729-108-06	TRANSISTOR 2SC1841
Q601	8-729-697-92	TRANSISTOR 2SA979

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

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Ref.No.	Part No.	Description
Q602	8-729-600-27	TRANSISTOR 2SC634SP
Q603	8-729-600-27	TRANSISTOR 2SC634SP
Q604	8-729-104-91	TRANSISTOR 2SA1383
Q605	8-729-107-25	TRANSISTOR 2SD1585-L
Q606	8-729-104-18	TRANSISTOR 2SC3514
Q607	8-729-600-27	TRANSISTOR 2SC634SP
Q608	8-729-117-54	TRANSISTOR 2SA1175
Q609	8-729-127-53	TRANSISTOR 2SC2275-P
Q610	8-729-118-53	TRANSISTOR 2SA985-P
Q611	8-729-111-74	TRANSISTOR 2SD1289-Q
Q612	8-729-111-77	TRANSISTOR 2SB966-Q
Q613	8-729-108-14	TRANSISTOR 2SA988-F
Q614	8-729-108-06	TRANSISTOR 2SC1841
Q700	8-729-806-16	TRANSISTOR 2SA1346
Q800	8-729-107-26	TRANSISTOR 2SD1585-K
Q801	8-729-202-67	TRANSISTOR 2SK246GR3
Q803	8-729-202-67	TRANSISTOR 2SK246GR3
Q804	8-729-111-67	TRANSISTOR 2SB1094-L
R051	1-247-750-11	CARBON 680 5% 1/2W
R052	1-247-701-11	CARBON 120 5% 1/4W
R053	1-247-750-11	CARBON 680 5% 1/2W
R054	1-247-713-11	CARBON 1K 5% 1/4W
R055	1-247-725-11	CARBON 10K 5% 1/4W
R056	1-247-750-11	CARBON 680 5% 1/2W
R057	1-247-713-11	CARBON 1K 5% 1/4W
R058	1-247-708-11	CARBON 470 5% 1/4W
R100	1-215-493-00	CARBON 1M 5% 1/4W
R101	1-249-413-11	CARBON 470 5% 1/4W
R102	1-215-493-00	CARBON 1M 5% 1/4W
R103	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R104	1-215-493-00	CARBON 1M 5% 1/4W
R105	1-249-413-11	CARBON 470 5% 1/4W
R106	1-215-493-00	CARBON 1M 5% 1/4W
R107	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R108	1-247-713-11	(G-AEP)...CARBON 1K 5% 1/4W
R109	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R110	1-215-493-00	CARBON 1M 5% 1/4W
R111	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R112	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R113	1-247-713-11	(G-AEP)...CARBON 1K 5% 1/4W
R114	1-249-405-11	CARBON 100 5% 1/4W
R115	1-249-441-11	CARBON 100K 5% 1/4W
R116	1-249-405-11	CARBON 100 5% 1/4W
R117	1-249-441-11	CARBON 100K 5% 1/4W
R118	1-249-429-11	CARBON 10K 5% 1/4W
R119	1-249-392-11	CARBON 8.2 5% 1/4W
R120	1-249-404-00	CARBON 82 5% 1/4W
R121	1-249-438-11	CARBON 56K 5% 1/4W
R122	1-249-425-11	CARBON 4.7K 5% 1/4W
R124	1-249-409-11	CARBON 220 5% 1/4W
R125	1-249-421-11	CARBON 2.2K 5% 1/4W
R126	1-249-417-11	CARBON 1K 5% 1/4W
R127	1-249-417-11	CARBON 1K 5% 1/4W
R128	1-249-407-11	CARBON 150 5% 1/4W
R129	1-215-493-00	CARBON 1M 5% 1/4W
R130	1-215-493-00	CARBON 1M 5% 1/4W
R131	1-215-493-00	CARBON 1M 5% 1/4W
R200	1-215-493-00	CARBON 1M 5% 1/4W
R201	1-249-413-11	CARBON 470 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R202	1-215-493-00	CARBON 1M 5% 1/4W
R203	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R204	1-215-493-00	CARBON 1M 5% 1/4W
R205	1-249-413-11	CARBON 470 5% 1/4W
R206	1-215-493-00	CARBON 1M 5% 1/4W
R207	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R208	1-247-713-11	(G-AEP)...CARBON 1K 5% 1/4W
R209	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R210	1-215-493-00	CARBON 1M 5% 1/4W
R211	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R212	1-249-413-11	(G-AEP)...CARBON 470 5% 1/4W
R213	1-247-713-11	(G-AEP)...CARBON 1K 5% 1/4W
R214	1-249-405-11	CARBON 100 5% 1/4W
R215	1-249-441-11	CARBON 100K 5% 1/4W
R216	1-249-405-11	CARBON 100 5% 1/4W
R217	1-249-441-11	CARBON 100K 5% 1/4W
R218	1-249-429-11	CARBON 10K 5% 1/4W
R219	1-249-392-11	CARBON 8.2 5% 1/4W
R220	1-249-404-00	CARBON 82 5% 1/4W
R221	1-249-438-11	CARBON 56K 5% 1/4W
R222	1-249-425-11	CARBON 4.7K 5% 1/4W
R224	1-249-409-11	CARBON 220 5% 1/4W
R226	1-249-417-11	CARBON 1K 5% 1/4W
R227	1-249-417-11	CARBON 1K 5% 1/4W
R228	1-249-407-11	CARBON 150 5% 1/4W
R229	1-215-493-00	CARBON 1M 5% 1/4W
R230	1-215-493-00	CARBON 1M 5% 1/4W
R231	1-215-493-00	CARBON 1M 5% 1/4W
R300	1-247-725-11	CARBON 10K 5% 1/4W
R301	1-249-468-11	CARBON 82K 5% 1/4W
R302	1-246-529-00	CARBON 220K 5% 1/4W
R303	1-246-545-00	CARBON 1M 5% 1/4W
R304	1-249-460-11	CARBON 15K 5% 1/4W
R305	1-247-713-11	CARBON 1K 5% 1/4W
R306	1-246-529-00	CARBON 220K 5% 1/4W
R307	1-249-459-11	CARBON 12K 5% 1/4W
R308	1-246-529-00	CARBON 220K 5% 1/4W
R311	1-247-722-11	CARBON 5.6K 5% 1/4W
R312	1-247-710-11	CARBON 560 5% 1/4W
R313	1-249-463-11	CARBON 27K 5% 1/4W
R314	1-247-718-11	CARBON 2.7K 1/4W
R316	1-247-706-11	CARBON 330 5% 1/4W
R400	1-247-725-11	CARBON 10K 5% 1/4W
R401	1-249-468-11	CARBON 82K 5% 1/4W
R402	1-246-529-00	CARBON 220K 5% 1/4W
R403	1-246-545-00	CARBON 1M 5% 1/4W
R404	1-249-460-11	CARBON 15K 5% 1/4W
R405	1-247-713-11	CARBON 1K 5% 1/4W
R406	1-246-529-00	CARBON 220K 5% 1/4W
R407	1-249-459-11	CARBON 12K 5% 1/4W
R408	1-246-529-00	CARBON 220K 5% 1/4W
R411	1-247-722-11	CARBON 5.6K 5% 1/4W
R412	1-247-710-11	CARBON 560 5% 1/4W
R413	1-249-463-11	CARBON 27K 5% 1/4W
R414	1-247-718-11	CARBON 2.7K 1/4W
R416	1-247-706-11	CARBON 330 5% 1/4W
R501	1-247-713-11	CARBON 1K 1/4W
R502	1-249-497-11	CARBON 33K 1/4W
R503	1-247-717-11	CARBON 2.2K 5% 1/4W

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ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R504	1-247-707-11	(G-AEP)....CARBON	390	5%	1/4W	
R504	1-247-711-11	(AEP,UK)...CARBON	680	5%	1/4W	
R505 ⚠	1-247-704-11	CARBON	220	5%	1/4W	F
R506 ⚠	1-247-704-11	CARBON	220	5%	1/4W	F
R507	1-249-497-11	CARBON	33K		1/4W	
R508	1-247-719-11	CARBON	3.3K	5%	1/4W	
R509 ⚠	1-247-692-11	CARBON	22	5%	1/4W	F
R510	1-247-725-11	CARBON	10K	5%	1/4W	
R511	1-247-726-11	CARBON	33K	5%	1/4W	
R512	1-249-462-11	CARBON	22K	5%	1/4W	
R513	1-249-460-11	CARBON	15K		1/4W	
R514	1-247-719-11	CARBON	3.3K	5%	1/4W	
R515	1-247-713-11	CARBON	1K	5%	1/4W	
R516 ⚠	1-247-692-11	CARBON	22	5%	1/4W	F
R517 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R518 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R519 ⚠	1-247-719-11	CARBON	3.3K	5%	1/4W	F
R520 ⚠	1-247-713-11	CARBON	1K	5%	1/4W	F
R521 ⚠	1-247-713-11	CARBON	1K	5%	1/4W	F
R522 ⚠	1-247-718-11	CARBON	2.7K	5%	1/4W	F
R523 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W	F
R524 ⚠	1-247-745-11	CARBON	330	5%	1/2W	F
R525 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W	F
R526	1-214-789-00	RES, METAL PLATE 0.1				
R527	1-214-789-00	RES, METAL PLATE 0.1				
R530 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R531	1-249-459-11	CARBON	12K	5%	1/4W	
R532	1-247-727-11	CARBON	10	5%	1/2W	
R533	1-249-465-11	CARBON	47K	5%	1/4W	
R534	1-247-727-11	CARBON	10	5%	1/2W	
R535	1-247-713-11	(G-AEP)....CARBON	1K	5%	1/4W	
R597 ⚠	1-215-890-11	METAL OXIDE	470	5%	2W	F
R598	1-249-482-11	(G-AEP)....CARBON	4.7	5%	1/2W	
R599	1-249-482-11	(G-AEP)....CARBON	4.7	5%	1/2W	
R601	1-247-713-11	CARBON	1K		1/4W	
R602	1-249-497-11	CARBON	33K		1/4W	
R603	1-247-717-11	CARBON	2.2K	5%	1/4W	
R604	1-247-707-11	(G-AEP)....CARBON	390	5%	1/4W	
R604	1-247-711-11	(AEP,UK)...CARBON	680	5%	1/4W	
R605 ⚠	1-247-704-11	CARBON	220	5%	1/4W	F
R606 ⚠	1-247-704-11	CARBON	220	5%	1/4W	F
R607	1-249-497-11	CARBON	33K		1/4W	
R608	1-247-719-11	CARBON	3.3K	5%	1/4W	
R609 ⚠	1-247-692-11	CARBON	22	5%	1/4W	F
R610	1-247-725-11	CARBON	10K	5%	1/4W	
R611	1-247-726-11	CARBON	33K	5%	1/4W	
R612	1-249-462-11	CARBON	22K	5%	1/4W	
R613	1-249-460-11	CARBON	15K		1/4W	
R614	1-247-719-11	CARBON	3.3K	5%	1/4W	
R615	1-247-713-11	CARBON	1K	5%	1/4W	
R616 ⚠	1-247-692-11	CARBON	22	5%	1/4W	F
R617 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R618 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R619 ⚠	1-247-719-11	CARBON	3.3K	5%	1/4W	F
R620 ⚠	1-247-713-11	CARBON	1K	5%	1/4W	F
R621 ⚠	1-247-713-11	CARBON	1K	5%	1/4W	F
R622 ⚠	1-247-718-11	CARBON	2.7K	5%	1/4W	F

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R623 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W	F
R624 ⚠	1-247-745-11	CARBON	330	5%	1/2W	F
R625 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W	F
R626	1-214-789-00	RES, METAL PLATE 0.1				
R627	1-214-789-00	RES, METAL PLATE 0.1				
R630 ⚠	1-247-700-11	CARBON	100	5%	1/4W	F
R631	1-249-459-11	CARBON	12K	5%	1/4W	
R632	1-247-727-11	CARBON	10	5%	1/2W	
R633	1-249-466-11	CARBON	56K	5%	1/4W	
R634	1-247-727-11	CARBON	10	5%	1/2W	
R635	1-247-713-11	(G-AEP)...CARBON	1K	5%	1/4W	
R697 ⚠	1-215-890-11	METAL OXIDE	470	5%	2W	F
R698	1-249-482-11	(G-AEP)...CARBON	4.7	5%	1/2W	
R699	1-249-482-11	(G-AEP) CARBON	4.7	5%	1/2W	
R700	1-247-725-11	CARBON	10K	5%	1/4W	
R701	1-249-469-11	CARBON	100K	5%	1/4W	
R702	1-249-469-11	CARBON	100K	5%	1/4W	
R703	1-249-466-11	CARBON	56K	5%	1/4W	
R704	1-249-459-11	CARBON	12K	5%	1/4W	
R705	1-247-719-11	CARBON	3.3K	5%	1/4W	
R706 ⚠	1-206-713-00	METAL OXIDE	330	5%	3W	F
R707	1-247-717-11	CARBON	2.2K	5%	1/4W	
R803 ⚠	1-206-646-00	METAL OXIDE	180	5%	2W	F
R804 ⚠	1-206-646-00	METAL OXIDE	180	5%	2W	F
RV300	1-237-741-11	RES, VAR, CARBON 250K/250K				
RV301	1-237-739-11	RES, VAR, CARBON 100K/100K				
RV302	1-237-740-11	RES, VAR, CARBON 100K/100K				
RV303	1-237-740-11	RES, VAR, CARBON 100K/100K				
RV501	1-228-989-00	RES, ADJ, CARBON 470				
RV601	1-228-989-00	RES, ADJ, CARBON 470				
RY700	1-515-356-00	RELAY				
S1 ⚠	1-554-880-11	SWITCH, PUSH (AC POWER)(1 KEY)				
S102	1-571-118-11	SWITCH, PUSH (6 KEY)				
S103	1-571-111-11	SWITCH, PUSH (1 KEY)				
S300	1-571-117-11	SWITCH, PUSH (2 KEY)				
S500	1-571-109-11	SWITCH, ROTARY SLIDE				
T1 ⚠	1-448-952-11	TRANSFORMER, POWER				
TH700	1-800-427-00	POSISTOR				
TM500	1-536-706-00	TERMINAL BOARD (SP)				

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-701-630-00	BAG, POLYETHYLENE
3-769-223-11	(AEP,UK).....MANUAL, INSTRUCTION
3-769-223-41	(AEP,G-AEP)...MANUAL, INSTRUCTION
4-858-078-00	SHEET, PROTECTION
4-911-289-11	INDIVIDUAL CARTON
4-911-290-01	CUSHION

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

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TROUBLESHOOTING

Should any problem persist after you have made these checks, consult your nearest Sony service facility.
Before going through the check list below, first refer back to the connection and operating procedures.

Symptom	Remedy
No audio	• Check power cord connection. • Check speaker and program source connections. • Check SPEAKERS selector setting. • Check INPUT SELECTOR. • Adjust VOLUME control.
No audio from one channel or unbalanced left and right volume	• Adjust BALANCE control. • Check speaker and input connections of inoperative channel.
Abrupt sound loss from both speakers	• Turn off amplifier. Check speaker terminals and connecting cords for short.
Lack of bass sound or obscure instrument position	• Check speaker +/– connections for proper phasing.
Severe hum or noise	• TV or VTR is too close to audio system. • Move connecting cords away from transformers, motors or fluorescent lights. • Ground turntable system. • Fully insert connecting cord plugs. • Disconnect turntable ground wire when using an MM cartridge with a ground piece. • Wipe plugs and jacks with a cloth lightly moistened with methanol.

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Audio Group

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