

# TA-F550ES

## SERVICE MANUAL

Canadian Model  
AEP Model  
UK Model



### SPECIFICATIONS

#### Amplifier section

Item	Condition		Data
Continuous RMS power output (both channels driven simultaneously)	4 ohms, 20 Hz-20 kHz THD 0.008 %	EXCEPT AEP model	120 W + 120 W (THD 0.01 %) (DIN : 175 W + 175 W)
	6 ohms, 20 Hz-20 kHz THD 0.006 %	EXCEPT AEP model	100 W + 100 W (DIN : 140 W + 140 W)
		AEP model	95 W + 95 W (DIN : 120 W + 120 W)
	8 ohms, 20 Hz-20 kHz THD 0.004 %	EXCEPT AEP model	90 W + 90 W (DIN : 115 W + 115 W)
AEP model		80 W + 80 W (DIN : 100 W + 100 W)	
Power band width (IHF)	8 ohms, THD 0.02 %		10 Hz - 10 kHz at 45 W
Dynamic headroom ('78 IHF)	4ohms		2dB
	8ohms		1.2dB
Total harmonic distortion	8 ohms, at 10 watt output		0.003 %
Intermodulation (IM) distortion 60 Hz : 7 kHz = 4 : 1	4 ohm, at rated output		0.008 %
	6 ohm, at rated output		0.006 %
	8 ohm, at rated output		0.004 %
Damping factor	8 ohms, 1 kHz		100
Residual noise	network A		less than 90 $\mu$ V
Frequency response	PHONO MM		RIAA equalization curve $\pm$ 0.2 dB
	TUNER, CD, TAPE 1, 2, 3, DIRECT IN		2 Hz - 200Hz $\begin{matrix} +0 \\ -3 \end{matrix}$ dB
Input sensitivity	PHONO	MC	0.17mV, 100 ohms.
		MM	2.5 mV, 50 kohms
	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		150 mV, 20kohms

—Continued on page 2—

INTEGRATED STEREO AMPLIFIER  
**SONY**®

S/N (network) * 78 (IHF)	PHONO	MC	77 (0.5mV)
		MM	95 (5.0mV)
Output voltage impedance	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		108 (150mV)
	REC OUT 1, 2, 3 ADAPTOR OUT		150mV, 1kom
Tone controls	HEADPHONES		25 miliwatts (at 80ohms) Accepts low and high impedance headphones.
	BASS, at 100 Hz		± 6.5 dB (turnover freq. 400 Hz)
	TREBLE, at 10 kHz		± 6 dB (freq. 5kHz)
SUBSONIC filter	-		6 dB/octave attenuation below 15 Hz

**General**

system Preamplifier section: Low-noise high gain NFB type equalizer amplifier, passive type direct tone control  
Power amplifier section : Pure-complementary SEPP power amplifier

Power requirements  
AEP, West Germany models : 220 V AC, 50Hz  
UK model : 240 V AC, 50Hz  
Canadian model : 120V AC, 50Hz

**AC outlet (Canadian model only)**

2 switched, 1 unswitched, 100 watts max.each

**Dimensions**

Approx. 430 × 150 × 370mm (w/h/d)  
(18 1/2 × 5 7/8 × 14 9/16 inches)

**Weight**

Approx. 11.6kg (25 lbs 10 oz) net

**Power consumption**

Canadian	520 VA
AEP	210 W
UK	620 W
West Germany	330 W

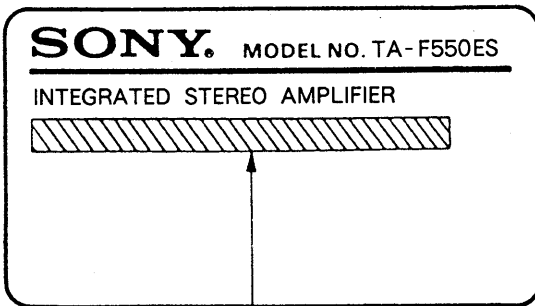
Design and specifications subject to change without notice.

**Note**

This appliance conforms with EEC directive 87/308/EEC regarding interference suppression.

**MODEL IDENTIFICATION**

- Specification Label -



Canadian MODEL : AC 120 V 60 Hz  
AEP, West Germany MODEL : AC 220 V ~ 50/60 Hz  
UK MODEL : AC 240 V ~ 50/60 Hz

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## SERVICING NOTES

### SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

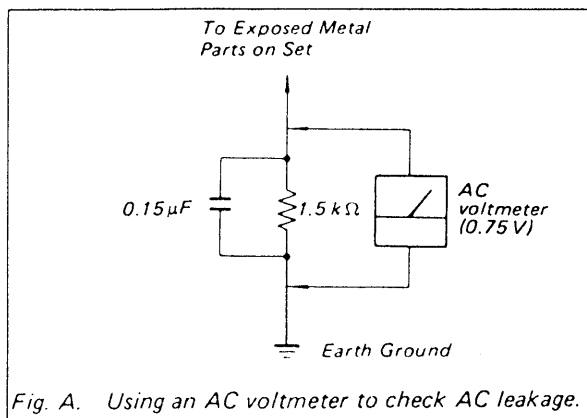


Fig. A. Using an AC voltmeter to check AC leakage.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  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.

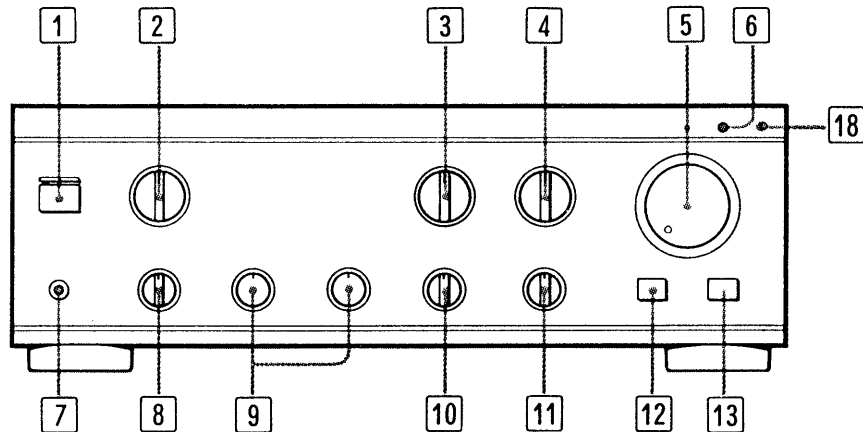
#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

# SECTION 1

## GENERAL

### Parts Identification



- 1 POWER switch and power/standby indicator**  
Immediately after turning ON the power, the standby indicator lights in red as the built-in muting circuit activates.  
When the amplifier stays in a stable operating condition, the indicator lights in green.  
The indicator lights in red when the unit detects shorting of circuit of the speaker outputs or in case of short-circuit of the inputs of DC components.  
In such a case, disconnect the power source systems and check the connected components and speaker systems.
- 2 SPEAKERS selector**  
Select speaker system A or B, or both.
- 3 ADAPTOR/DIRECT IN switch**  
Set to NORMAL to select program source by INPUT SELECTOR. To listen to a program source processed through adaptor (graphic equalizer, for example) connected to ADAPTOR jacks, set the selector to ADAPTOR.  
To listen to a program source connected to DIRECT IN jacks, set it to DIRECT IN.  
Note that selecting ADAPTOR has no effect upon the signals output through the REC OUT jacks.
- 4 INPUT SELECTOR**  
Selects the desired program source.
- 5 ATTENUATOR knob**  
Regulates the sound level.
- 6 MUTING switch and indicator**  
Generally, keep the switch released (OFF).  
Depress the switch to reduce the sound level by 20 dB. (Output voltage becomes 1/10.)
- 7 HEADPHONES jack (stereo phone jack)**
- 8 MODE selector**  
STEREO: For listening to a stereo program.  
MONO: For listening to a monaural program.
- 9 BASS and TREBLE controls**
- 10 REC OUT SELECTOR**  
Selects the program source sent to the REC OUT jacks (rear panel).
- 11 BALANCE control**  
Controls the sound level of left and right speakers.
- 12 SOURCE DIRECT switch and indicator**  
Depress the switch. The red indicator lights and the circuits of the tone control, subsonic filter switch, balance control and mode switch are disengaged without regard to the setting of the switches.
- 13 CARTRIDGE selector**  
Set the selector according to your cartridge.  
MM: For moving-magnet type cartridge  
MC: For moving-coil type cartridge
- 18 SUBSONIC filter switch**  
Depress the switch to reduce unwanted noise components of less than 15 Hz, which cause modulation noise.

## SECTION 2 ELECTRICAL ADJUSTMENTS

### PRECAUTIONS

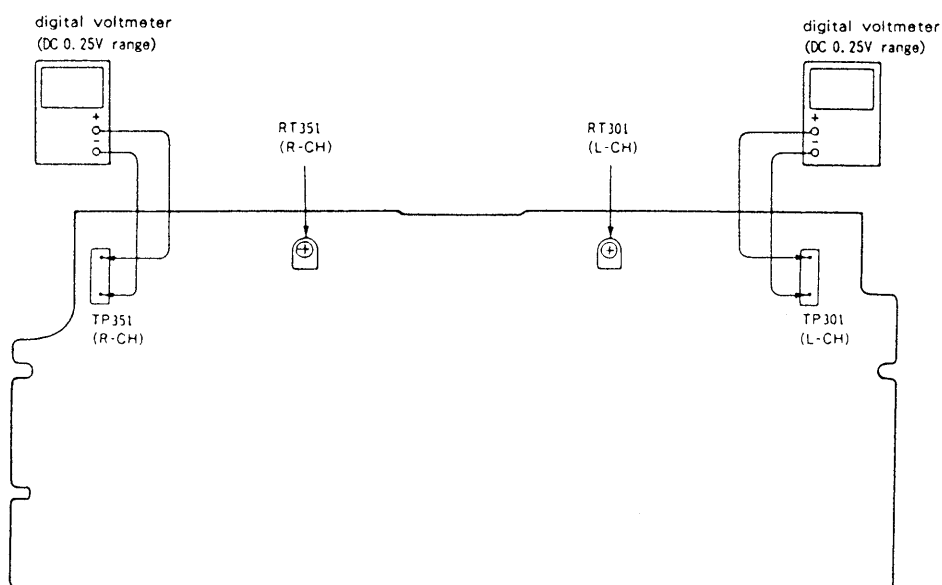
1. Adjust the idling after tuning the unit on for about 10-15 minutes, giving it time to warm up.
2. Always make sure to adjust the idling when repairing the power amp section or when replacing any parts.

### [IDLING ADJUSTMENT]

Procedure :

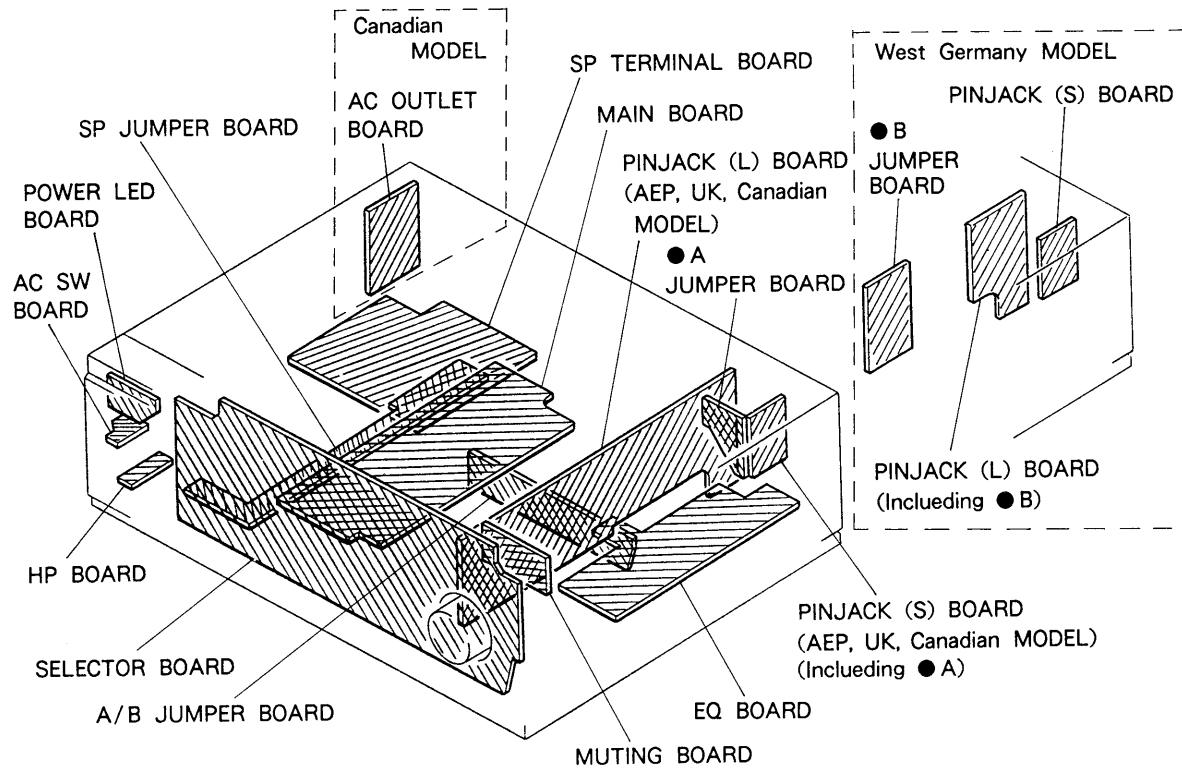
Set the ATTENUATOR control as low as possible and adjust RT301 (L-CH) and RT351 (R-CH) so that the voltmeter reads 7mV at TP301 (L-CH) and TP351 (R-CH).

Adjustment Location: power board



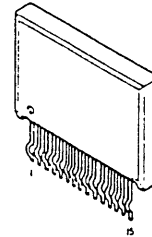
### SECTION 3 DIAGRAMS

#### CIRCUIT BOARDS LOCATION



#### ● Semiconductor Lead Layouts

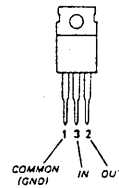
STK-3102N



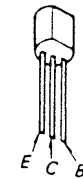
M5F7815L



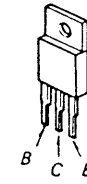
M5F7915L



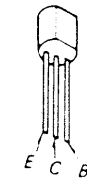
2SA733-QP  
2SC945-P  
2SC2545



2SA985A  
2SC2275A



2SA988-F



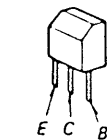
2SA1215M-0  
2SC2921M-0



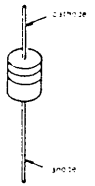
2SC3423



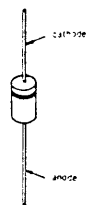
2SD774-34



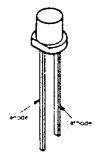
UZL-7M1  
1S5120  
11ES2



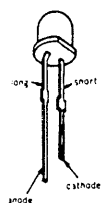
30DF2



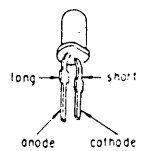
SEL2213C-C



SEL2510C



SEL2810A-C

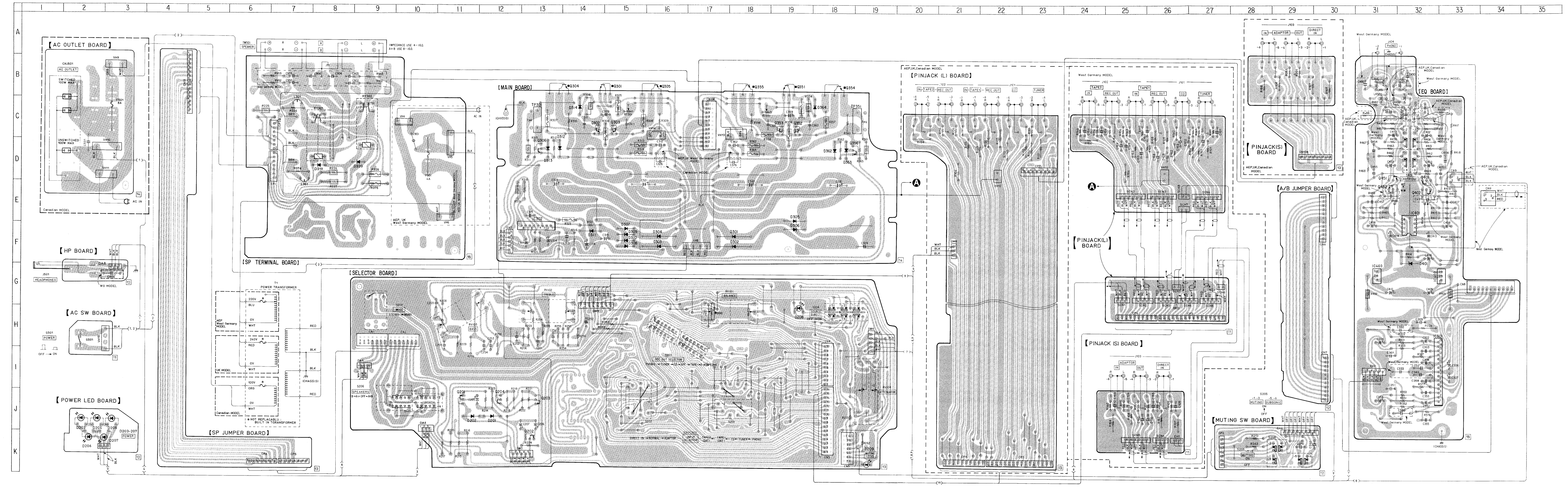




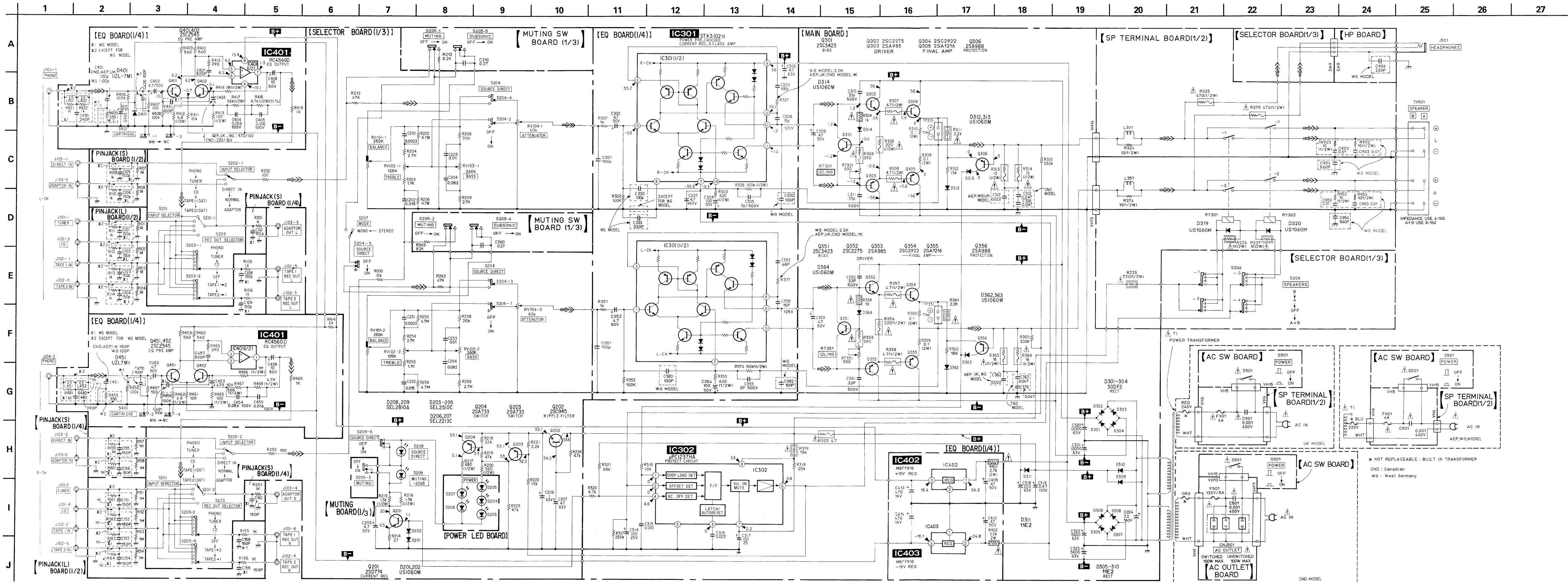
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	J-12	D401	F-34
D202	J-11		
D203	J-2	IC301	I-35
D204	J-2	IC302	F-13
D205	J-3	IC401	F-34
D206	K-2	IC402	G-35
D207	K-3	IC403	G-33
D208	H-19		
D209	K-21	Q201	J-11
D301	F-18	Q202	K-13
D302	F-18	Q203	J-13
D303	F-16	Q204	J-12
D304	F-16	Q301	B-15
D305	E-19	Q302	C-14
D306	F-19	Q303	C-15
D307	F-15	Q304	B-14
D308	F-15	Q305	B-16
D309	F-15	Q306	D-19
D310	F-15	Q351	B-19
D311	F-14	Q352	C-19
D312	D-13	Q353	C-19
D313	D-13	Q354	B-20
D314	C-14	Q355	B-18
D319	D-8	Q356	D-21
D320	D-9	Q401	E-34
D362	D-20	Q402	E-34
D363	D-20	Q451	D-33
D364	C-20	Q452	E-33

Note on Mounting Diagram:  
 ● : parts extracted from the component side.  
 ● : parts mounted on the conductor side.  
 ● : Pattern on the side which is seen.







**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$ F
- 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

**Note:**  
The components identified by mark or are critical for safety. Replace only with part number specified.

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

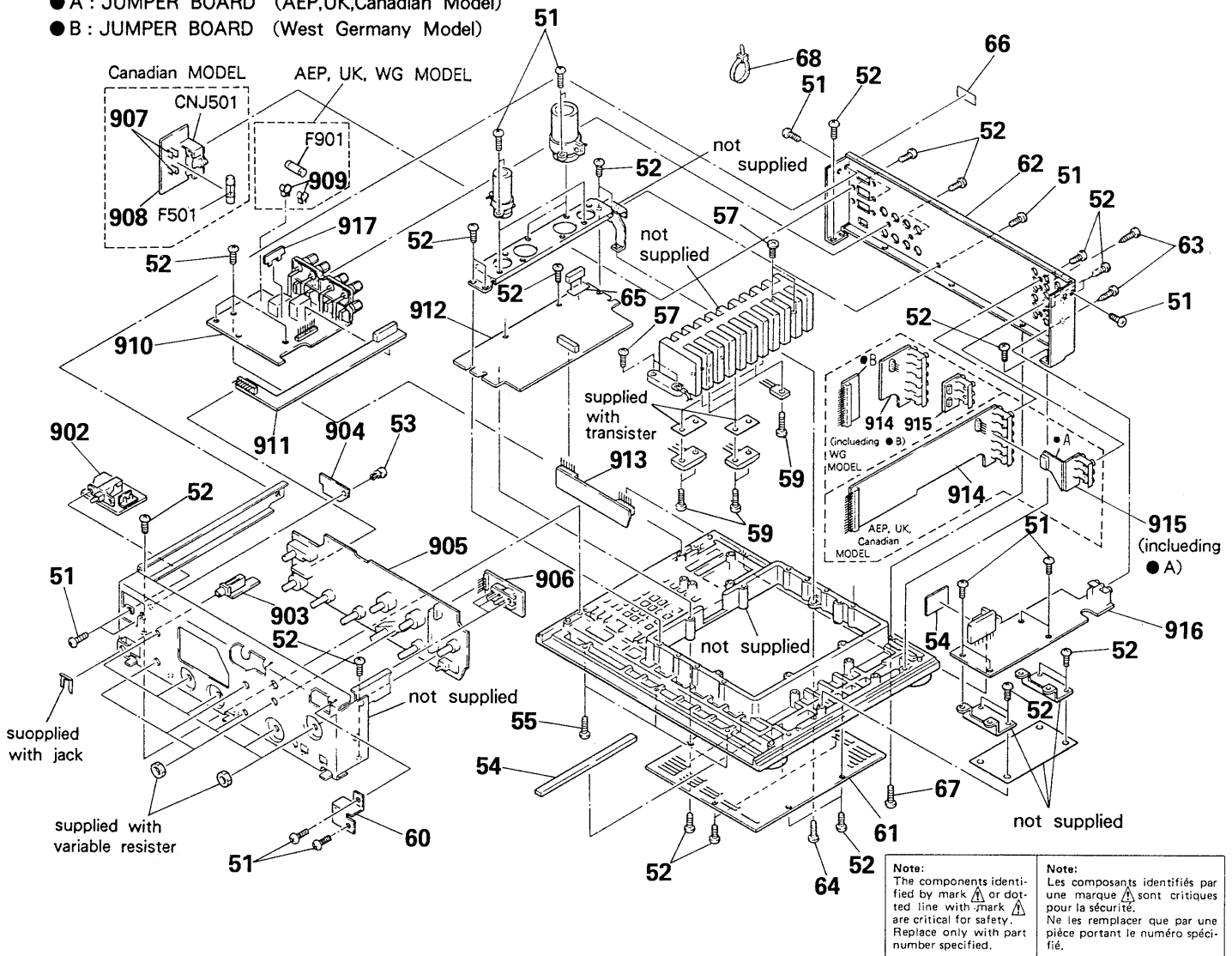
- : B+ Line
- : B- Line
- : adjustment for repair
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: PHONO
- Volts are taken with a VOM (Input impedance  $10\text{M}\Omega$ )
- Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : PHONO
- WG: West Germany
- CND: Canadian
- SP JUMPER BOARD, A/B JUMPER BOARD and a parts of connector omitted from this circuit diagrams.





#### 4-2.CHASSIS, BACK PANEL

- A : JUMPER BOARD (AEP,UK,Canadian Model)
- B : JUMPER BOARD (West Germany Model)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	7-682-547-09	SCREW +BVTT 3X8 (S)		907	1-533-190-11	(Canadian)...CLIP, FUSE	
52	7-685-647-79	SCREW +BVTT 3X10 TYPE2 SLIT		908	*1-629-755-11	(Canadian)...PC BOARD, AC OUTLET	
53	4-812-134-00	RIVET NYLON, 3.5		909	1-533-183-11	(EXCEPT Canadian)...HOLDER, FUSE	
54	*4-916-782-21	DAMPER		910	*1-629-753-15	PC BOARD, SP TERMINAL	
55	7-685-873-09	SCREW +BVTT 3X10 (S)		911	*1-629-757-13	(EXCEPT WG)...PC BOARD, SP JAMPER	
57	7-685-650-79	SCREW +BVTP 3X16 TYPE2 SLIT			*1-635-839-11	(WG).....PC BOARD, SP JAMPER	
59	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3		912	*A-4334-889-A	(AEP).....MOUNTED PCB, MAIN	
60	*4-937-801-01	BRACKET, SW			*A-4334-897-A	(Canadian)...MOUNTED PCB, MAIN	
61	*4-916-732-01	BOARD, BOTTOM			*A-4334-900-A	(UK).....MOUNTED PCB, MAIN	
62	*4-929-233-03	(Canadian).....PANEL, BACK			*A-4341-271-A	(WG).....MOUNTED PCB, MAIN	
	*4-929-233-11	(EXCEPT Canadian)...PANEL, BACK		913	*1-629-750-11	PC BOARD, A/B JUMPER	
63	7-621-849-00	SCREW, TAPPING		914	*1-629-758-13	(EXCEPT WG)...PC BOARD, PIN JACK (L)	
64	7-685-874-09	SCREW +BVTT 3X12 (S)			*1-635-837-11	(WG).....PC BOARD, PIN JACK (L)	
65	4-921-941-31	(UK)...CUSHION (FL)		915	*1-629-756-12	(EXCEPT WG)...PC BOARD, PIN JACK (S)	
66	3-703-270-00	(Canadian)...LABEL, AC 120V 60HZ			*1-635-838-11	(WG).....PC BOARD, PIN JACK (S)	
67	7-685-876-09	SCREW +BVTT 3X16 (S)		916	*A-4334-895-A	(WG).....MOUNTED PCB, EQ	
68	3-655-653-21	BAND (TAITON), BINDING			*A-4334-898-A	(AEP,Canadian)...MOUNTED PCB, EQ	
902	*1-635-841-11	PC BOARD, AC SW			*A-4334-901-A	(UK).....MOUNTED PCB, EQ	
903	*1-629-749-11	PC BOARD, HP		917	*1-560-242-61	BUS BAR 2P	
904	*1-629-751-11	PC BOARD, POWER LED			CNJ501	(Canadian)...OUTLET, AC (POLAR)	
905	*A-4410-962-A	MOUNTED PCB, SELECTOR			1-540-062-11	(Canadian)...FUSE, GLASE-TUBE (8A)	
906	*1-629-747-11	PC BOARD, MUTING			F501	(Canadian)...FUSE, GLASE-TUBE (8A)	
					F901	(EXCEPT Canadian)...FUSE, TIME-LAG (4A)	

# SECTION 5

## ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- 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 circuits in 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:  $\mu$ F, PF:  $\mu$ MF.

**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

**COILS**

- MMH: mH, UH:  $\mu$ H

**SEMICONDUCTORS**

In each case, U:  $\mu$ , for example:

UA...:  $\mu$ A..., UPA...:  $\mu$ PA...,  
UPC...:  $\mu$ PC, UPD...:  $\mu$ PD...

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- WG : West Germany model

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	$\Delta$ .1-574-383-11	(AEP,WG)....CORD, POWER	C158	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
	$\Delta$ .1-574-884-11	(UK)...CORD, POWER (WITH CONNECTOR)	C159	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
	$\Delta$ .1-575-105-11	(Canadian)...CORD, POWER	C160	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
902	*1-635-841-11	PC BOARD, AC SW	C201	1-130-475-00	MYLAR 0.0022MF 5% 50V
903	*1-629-749-11	PC BOARD, HP	C202	1-130-485-00	MYLAR 0.015MF 5% 50V
904	*1-629-751-11	PC BOARD, POWER LED	C203	1-130-483-00	MYLAR 0.01MF 5% 50V
905	*A-4410-962-A	MOUNTED PCB, SELECTOR	C204	1-136-164-00	FILM 0.082MF 5% 50V
906	*1-629-747-11	PC BOARD, MUTING	C205	1-123-369-00	ELECT 4.7MF 20% 50V
907	1-533-190-11	(Canadian)...CLIP, FUSE	C206	1-123-380-00	ELECT 1MF 20% 63V
908	*1-629-755-11	(Canadian)...PC BOARD, AC OUTLET	C207	1-124-918-11	ELECT 47MF 20% 63V
909	1-533-183-11	(EXCEPT Canadian)...HOLDER, FUSE	C210	1-136-170-00	FILM 0.27MF 5% 50V
910	*1-629-753-15	PC BOARD, SP TERMINAL	C251	1-130-475-00	MYLAR 0.0022MF 5% 50V
911	*1-629-757-13	(EXCEPT WG)...PC BOARD, SP JAMPER	C252	1-130-485-00	MYLAR 0.015MF 5% 50V
	*1-635-839-11	(WG).....PC BOARD, SP JAMPER	C253	1-130-483-00	MYLAR 0.01MF 5% 50V
			C254	1-136-164-00	FILM 0.082MF 5% 50V
912	*A-4334-889-A	(AEP).....MOUNTED PCB, MAIN	C260	1-136-170-00	FILM 0.27MF 5% 50V
	*A-4334-897-A	(Canadian)...MOUNTED PCB, MAIN	C301	1-136-808-11	FILM 100PF 5% 100V
	*A-4334-900-A	(UK).....MOUNTED PCB, MAIN	C302	1-123-369-00	ELECT 4.7MF 20% 50V
	*A-4341-271-A	(WG).....MOUNTED PCB, MAIN			
913	*1-629-750-11	PC BOARD, A/B JUMPER	C303	1-104-276-11	POLYSTYRENE 68PF 10% 50V
914	*1-629-758-13	(EXCEPT WG)...PC BOARD, PIN JACK (L)	C304	1-126-052-11	ELECT 100MF 20% 50V
	*1-635-837-11	(WG).....PC BOARD, PIN JACK (L)	C305	1-107-044-00	MICA 3PF 0.5PF 500V
915	*1-629-756-12	(EXCEPT WG)...PC BOARD, PIN JACK (S)	C306	1-123-369-00	ELECT 4.7MF 20% 63V
	*1-635-838-11	(WG).....PC BOARD, PIN JACK (S)	C307	1-123-369-00	ELECT 4.7MF 20% 63V
			C308	1-104-263-00	POLYSTYRENE 15PF 10% 125V
916	*A-4334-895-A	(WG).....MOUNTED PCB, EQ	C309	1-124-910-11	ELECT 47MF 20% 50V
	*A-4334-898-A	(AEP,Canadian)...MOUNTED PCB, EQ	C310	1-107-159-00	MICA 33PF 5% 500V
	*A-4334-901-A	(UK).....MOUNTED PCB, EQ	C311	1-107-159-00	MICA 33PF 5% 500V
917	*1-560-242-61	BUS BAR 2P	C312	1-130-487-00	(EXCEPT Canadian)
C101	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V			....MYLAR 0.022MF 5% 50V
C102	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C312	1-136-161-11	(Canadian)....FILM 0.047MF 50V
C103	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C313	1-130-471-00	MYLAR 0.001MF 5% 50V
C104	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C314	1-123-333-00	ELECT 100MF 20% 25V
C105	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C315	1-130-487-00	MYLAR 0.022MF 5% 50V
C106	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C317	1-123-333-00	ELECT 100MF 20% 25V
C108	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C318	1-123-604-00	ELECT 220MF 20% 63V
C109	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C319	1-123-379-00	ELECT 0.47MF 20% 100V
C110	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C320	1-125-460-11	ELECT 12000MF 63V
C151	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C321	1-125-460-11	ELECT 12000MF 63V
C152	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C322	1-125-558-11	ELECT 5600MF 63V
C153	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C323	1-125-558-11	ELECT 5600MF 63V
C154	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C324	1-136-880-11	FILM 2.2MF 10% 160V
C155	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C326	1-136-161-11	(Canadian)...FILM 0.047MF 50V
C156	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C330	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
			C332	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
			C333	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V

Ref.No.	Part No.	Description			
C351	1-136-808-11	FILM	100PF	5%	100V
C352	1-123-369-00	ELECT	4.7MF	20%	50V
C353	1-104-276-11	POLYSTYRENE	68PF	10%	50V
C354	1-126-052-11	ELECT	100MF	20%	50V
C355	1-107-044-00	MICA	3PF	0.5PF	500V
C358	1-104-263-00	POLYSTYRENE	15PF	10%	125V
C359	1-124-910-11	ELECT	47MF	20%	50V
C360	1-107-159-00	MICA	33PF	5%	500V
C361	1-107-159-00	MICA	33PF	5%	500V
C362	1-130-487-00	(EXCEPT Canadian)			
		...MYLAR	0.022MF	5%	50V
C362	1-136-161-11	(Canadian)...FILM	0.047MF		50V
C376	1-136-161-11	(Canadian)...FILM	0.047MF		50V
C380	1-162-282-31	(WG)...CERAMIC	100PF	5%	50V
C382	1-162-282-31	(WG)...CERAMIC	100PF	5%	50V
C401	1-102-973-00	(WG).....CERAMIC	100PF	5%	50V
C401	1-104-282-11	(EXCEPT WG)...FILM	150PF		50V
C402	1-123-369-00	ELECT	4.7MF	20%	50V
C403	1-124-997-11	ELECT	470MF	20%	10V
C404	1-130-341-00	FILM	0.056MF	3%	100V
C405	1-130-971-00	FILM	0.016MF	3%	100V
C406	1-123-333-00	ELECT	100MF	20%	16V
C407	1-130-470-00	MYLAR	820PF	5%	50V
C408	1-126-059-11	ELECT	10MF	20%	50V
C409	1-124-910-11	ELECT	47MF	20%	50V
C410	1-124-910-11	ELECT	47MF	20%	50V
C413	1-126-103-11	ELECT	470MF	20%	16V
C414	1-126-103-11	ELECT	470MF	20%	16V
C420	1-162-282-31	(WG)...CERAMIC	100PF	10%	50V
C430	1-110-342-11	(WG)...MYLAR	390PF	5%	50V
C431	1-162-282-31	(WG)...CERAMIC	100PF	5%	50V
C451	1-102-973-00	(WG).....CERAMIC	100PF	5%	50V
C451	1-104-282-11	(EXCEPT WG)...FILM	150PF		50V
C452	1-123-369-00	ELECT	4.7MF	20%	50V
C453	1-124-997-11	ELECT	470MF	20%	10V
C454	1-130-341-00	FILM	0.056MF	3%	100V
C455	1-130-971-00	FILM	0.016MF	3%	100V
C457	1-130-470-00	MYLAR	820PF	5%	50V
C458	1-126-059-11	ELECT	10MF	20%	50V
C470	1-162-282-31	(WG)...CERAMIC	100PF	10%	50V
C480	1-110-342-11	(WG)...MYLAR	390PF	5%	50V
C481	1-162-282-31	(WG)...CERAMIC	100PF	5%	50V
C501	△.1-161-941-11	(Canadian)...CERAMIC	0.001MF		400V
C901	△.1-161-741-00	(EXCEPT Canadian)			
		...CERAMIC	0.001MF	10%	400V
C902	1-136-153-00	(WG)...FILM	0.01MF	5%	50V
C903	1-136-153-00	(WG)...FILM	0.01MF	5%	50V
C904	1-102-115-00	(WG)...CERAMIC	560PF	10%	50V
C906	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V
C952	1-136-153-00	(WG)...FILM	0.01MF	5%	50V
C953	1-136-153-00	(WG)...FILM	0.01MF	5%	50V
C954	1-102-115-00	(WG)...CERAMIC	560PF	10%	50V
CN1	*1-561-651-00	SOCKET, CONNECTOR	7P		
CN2	*1-561-651-00	SOCKET, CONNECTOR	7P		
CN3	1-568-118-11	SOCKET, CONNECTOR	16P		
CN4	*1-562-334-00	SOCKET, CONNECTOR	10P		
CN5	*1-561-651-00	SOCKET, CONNECTOR	7P		
CN6	1-568-203-11	PIN, CONNECTOR (PC BOARD)	11P		
CN7	1-568-203-11	PIN, CONNECTOR (PC BOARD)	11P		

Ref.No.	Part No.	Description
CN8	*1-563-381-11	SOCKET, CONNECTOR 11P
CN9	*1-566-451-11	HOUSING, CONNECTOR 3P
CN10	*1-563-381-11	SOCKET, CONNECTOR 11P
CN11	1-568-117-11	SOCKET, CONNECTOR 14P
CNJ501	1-540-062-11	(Canadian)...OUTLET, AC (POLAR)
CP1	*1-560-532-00	PIN, CONNECTOR 7P
CP2	*1-560-532-00	PIN, CONNECTOR 7P
CP3	*1-568-204-11	PIN, CONNECTOR (PC BOARD) 16P
CP3A	*1-560-532-00	PIN, CONNECTOR 7P
CP4	*1-568-202-11	PIN, CONNECTOR (PC BOARD) 10P
CP5	1-568-120-11	PIN, CONNECTOR (PC BOARD) 7P
CP6	1-568-120-11	PIN, CONNECTOR (PC BOARD) 7P
D201	8-719-912-20	DIODE 1SS120
D202	8-719-912-20	DIODE 1SS120
D203	8-719-303-00	LED SEL2510C-C (POWER)
D204	8-719-303-00	LED SEL2510C-C (POWER)
D205	8-719-303-00	LED SEL2510C-C (POWER)
D206	8-719-302-23	LED SEL2213C-C (POWER)
D207	8-719-302-23	LED SEL2213C-C (POWER)
D208	8-719-301-52	LED SEL2810A-C (SOURCE DIRECT)
D209	8-719-301-52	LED SEL2810A-C (MUTING -20dB)
D301	8-719-230-02	DIODE 30DF2-FC
D302	8-719-230-02	DIODE 30DF2-FC
D303	8-719-230-02	DIODE 30DF2-FC
D304	8-719-230-02	DIODE 30DF2-FC
D305	8-719-200-82	DIODE 11ES2
D306	8-719-200-82	DIODE 11ES2
D307	8-719-200-82	DIODE 11ES2
D308	8-719-200-82	DIODE 11ES2
D309	8-719-200-82	DIODE 11ES2
D310	8-719-200-82	DIODE 11ES2
D311	8-719-200-82	DIODE 11ES2
D312	8-719-912-20	DIODE 1SS120
D313	8-719-912-20	DIODE 1SS120
D314	8-719-912-20	DIODE 1SS120
D319	8-719-912-20	DIODE 1SS120
D320	8-719-912-20	DIODE 1SS120
D362	8-719-912-20	DIODE 1SS120
D363	8-719-912-20	DIODE 1SS120
D364	8-719-912-20	DIODE 1SS120
D401	8-719-000-84	DIODE UZL-7M1
EH1	*1-564-505-11	(WG)...PLUG, CONNECTOR 2P
EH2	*1-564-508-11	PLUG, CONNECTOR 5P
EH3	*1-564-508-11	PLUG, CONNECTOR 5P
EH4	*1-564-511-11	PLUG, CONNECTOR 8P
F501	△.1-532-510-11	(Canadian).....FUSE, GLASE-TUBE (8A)
F901	△.1-532-350-00	(EXCEPT Canadian)...FUSE, TIME-LAG (4A)
IC301	8-749-921-87	IC STK-3102N
IC302	8-759-111-68	IC UP1237HA
IC401	8-759-981-96	IC RC4560D
IC402	8-759-604-34	IC M5F7815L
IC403	8-759-604-52	IC M5F7915L
J101	*1-580-028-11	JACK, PIN 6P (TUNER/CD/TAPE 1, REC OUT)
J102	*1-580-027-11	JACK, PIN 6P (TAPE 2 REC OUT)
J103	*1-580-028-11	JACK, PIN 6P (ADAPTOR IN/OUT, DIRECT IN)

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Ref.No.	Part No.	Description
J104	1-568-250-21	JACK, PIN 2P (PHONO)
J501	1-507-863-51	JACK, LARGE TYPE (HEADPHONES)
L301	1-428-133-11	COIL, AIR-CORE
L351	1-428-133-11	COIL, AIR-CORE
L401	1-424-397-11	(WG)...COIL, CHOKE 200UH
L402	1-424-397-11	(WG)...COIL, CHOKE 200UH
L451	1-424-397-11	(WG)...COIL, CHOKE 200UH
L452	1-424-397-11	(WG)...COIL, CHOKE 200UH
Q201	8-729-140-96	TRANSISTOR 2SD774-34
Q202	8-729-194-57	TRANSISTOR 2SC945-P
Q203	8-729-141-03	TRANSISTOR 2SA733-QP
Q204	8-729-141-03	TRANSISTOR 2SA733-QP
Q302	8-729-107-53	TRANSISTOR 2SC2275A
Q301	8-729-203-45	TRANSISTOR 2SC3423-0
Q303	8-729-190-53	TRANSISTOR 2SA985
Q304	8-729-320-03	TRANSISTOR 2SC2921M-0
Q305	8-729-320-01	TRANSISTOR 2SA1215M-0
Q306	8-729-108-14	TRANSISTOR 2SA988-F
Q351	8-729-203-45	TRANSISTOR 2SC3423-0
Q352	8-729-107-53	TRANSISTOR 2SC2275A
Q353	8-729-190-53	TRANSISTOR 2SA985A
Q354	8-729-320-03	TRANSISTOR 2SC2921M-0
Q355	8-729-320-01	TRANSISTOR 2SA1215M-0
Q356	8-729-108-14	TRANSISTOR 2SA988-F
Q401	8-729-354-52	TRANSISTOR 2SC2545
Q402	8-729-354-52	TRANSISTOR 2SC2545
Q451	8-729-354-52	TRANSISTOR 2SC2545
Q452	8-729-354-52	TRANSISTOR 2SC2545
R000	1-247-725-11	CARBON 10K 5% 1/4W
R101	1-246-545-00	CARBON 1M 5% 1/4W
R102	1-246-545-00	CARBON 1M 5% 1/4W
R103	1-246-545-00	CARBON 1M 5% 1/4W
R104	1-246-545-00	CARBON 1M 5% 1/4W
R105	1-247-713-11	CARBON 1K 5% 1/4W
R106	1-249-417-11	CARBON 1K 5% 1/4W
R107	1-246-545-00	CARBON 1M 5% 1/4W
R108	1-246-545-00	CARBON 1M 5% 1/4W
R109	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R110	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R111	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R112	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R113	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R114	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R151	1-246-545-00	CARBON 1M 5% 1/4W
R152	1-246-545-00	CARBON 1M 5% 1/4W
R153	1-246-545-00	CARBON 1M 5% 1/4W
R154	1-246-545-00	CARBON 1M 5% 1/4W
R155	1-247-713-11	CARBON 1K 5% 1/4W
R156	1-249-417-11	CARBON 1K 5% 1/4W
R157	1-246-545-00	CARBON 1M 5% 1/4W
R158	1-246-545-00	CARBON 1M 5% 1/4W
R159	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R160	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R161	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R162	1-249-417-11	(WG)...CARBON 1K 5% 1/4W

Ref.No.	Part No.	Description
R163	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R164	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R201	1-249-417-11	CARBON 1K 5% 1/4W
R202	1-247-700-11	CARBON 100 5% 1/4W
R203	1-247-132-00	CARBON 1.1K 5% 1/4W
R204	1-247-718-11	CARBON 2.7K 5% 1/4W
R205	1-249-753-15	CARBON 4.7M 5% 1/4W
R206	1-249-753-15	CARBON 4.7M 5% 1/4W
R208	1-247-162-00	CARBON 20K 5% 1/4W
R209	1-247-718-11	CARBON 2.7K 5% 1/4W
R212	1-249-465-11	CARBON 47K 5% 1/4W
R213	1-247-152-00	CARBON 8.2K 5% 1/4W
R214	1-247-693-11	CARBON 27 5% 1/4W
R215	1-247-754-11	CARBON 1.5K 5% 1/2W
R216	1-247-754-11	CARBON 1.5K 5% 1/2W
R217	1-247-750-11	CARBON 680 5% 1/2W
R218	1-249-462-11	CARBON 22K 5% 1/4W
R219	1-249-465-11	CARBON 47K 5% 1/4W
R220	1-247-749-11	CARBON 560 5% 1/2W
R221	1-247-717-11	CARBON 2.2K 5% 1/4W
R222	1-247-725-11	CARBON 10K 5% 1/4W
R223	1-249-465-11	CARBON 47K 5% 1/4W
R224	1-247-721-11	CARBON 4.7K 5% 1/4W
R225	△.1-247-743-11	CARBON 220 5% 1/2W F
R226	△.1-215-892-11	METAL OXIDE 1K 5% 2W F
R227	△.1-215-892-11	METAL OXIDE 1K 5% 2W F
R251	1-249-417-11	CARBON 1K 5% 1/4W
R252	1-247-700-11	CARBON 100 5% 1/4W
R253	1-247-132-00	CARBON 1.1K 5% 1/4W
R254	1-247-718-11	CARBON 2.7K 5% 1/4W
R255	1-249-753-15	CARBON 4.7M 5% 1/4W
R256	1-249-753-15	CARBON 4.7M 5% 1/4W
R258	1-247-162-00	CARBON 20K 5% 1/4W
R259	1-247-718-11	CARBON 2.7K 5% 1/4W
R262	1-249-465-11	CARBON 47K 5% 1/4W
R263	1-247-152-00	CARBON 8.2K 5% 1/4W
R301	1-247-713-11	CARBON 1K 5% 1/4W
R302	1-249-469-11	CARBON 100K 5% 1/4W
R303	1-249-668-11	CARBON 620 5% 1/2W
R304	△.1-249-417-11	CARBON 1K 5% 1/4W F
R305	△.1-212-895-01	FUSIBLE 390 5% 1/4W F
R306	△.1-212-990-00	FUSIBLE 220 5% 1/2W F
R307	△.1-212-950-00	FUSIBLE 4.7 5% 1/2W F
R308	△.1-212-950-00	FUSIBLE 4.7 5% 1/2W F
R309	1-217-611-00	RES, METAL PLATE 0.1 2W
R310	1-217-611-00	RES, METAL PLATE 0.1 2W
R311	△.1-247-717-11	CARBON 2.2K 5% 1/4W F
R312	1-249-460-11	CARBON 15K 5% 1/4W
R313	△.1-212-962-00	FUSIBLE 15 5% 1/2W F
R314	△.1-212-962-00	FUSIBLE 15 5% 1/2W F
R315	1-247-891-00	CARBON 330K 5% 1/4W
R316	1-247-725-11	CARBON 10K 5% 1/4W
R317	1-247-887-00	CARBON 220K 5% 1/4W
R318	1-247-881-00	CARBON 120K 5% 1/4W
R319	△.1-249-432-11	CARBON 18K 5% 1/4W F
R320	1-247-721-11	CARBON 4.7K 5% 1/4W
R321	1-249-467-11	CARBON 68K 5% 1/4W

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Ref.No.	Part No.	Description				
R323	△.1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R324	1-247-727-11	CARBON	10	5%	1/2W	
R325	△.1-212-998-00	FUSIBLE	470	5%	1/2W	F
R326	1-249-721-11	CARBON	100K	5%	1/2W	
R327	1-247-717-11	(WG).....CARBON	2.2K	5%	1/4W	
R327	1-249-552-11	(EXCEPT WG)...CARBON	1K	5%	1/4W	
R351	1-247-713-11	CARBON	1K	5%	1/4W	
R352	1-249-469-11	CARBON	100K	5%	1/4W	
R353	1-249-668-11	CARBON	620	5%	1/2W	
R354	△.1-249-417-11	CARBON	1K	5%	1/4W	F
R355	△.1-212-895-00	FUSIBLE	390	5%	1/4W	F
R356	△.1-212-990-00	FUSIBLE	220	5%	1/2W	F
R357	△.1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R358	△.1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R359	1-217-611-00	RES, METAL PLATE	0.1		2W	
R360	1-217-611-00	RES, METAL PLATE	0.1		2W	
R361	△.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R362	1-249-460-11	CARBON	15K	5%	1/4W	
R363	△.1-212-962-00	FUSIBLE	15	5%	1/2W	F
R364	△.1-212-962-00	FUSIBLE	15	5%	1/2W	F
R365	1-247-891-00	CARBON	330K	5%	1/4W	
R374	1-247-727-11	CARBON	10	5%	1/2W	
R375	△.1-212-998-00	FUSIBLE	470	5%	1/2W	F
R376	1-249-721-11	CARBON	100K	5%	1/2W	
R377	1-247-552-11	(EXCEPT WG)...CARBON	1K	5%	1/4W	
R377	1-247-717-11	(WG).....CARBON	2.2K	5%	1/4W	
R401	△.1-216-459-00	METAL OXIDE	2.7K	5%	2W	F
R402	△.1-215-895-11	METAL OXIDE	3.3K	5%	2W	F
R405	1-247-706-11	(EXCEPT WG)...CARBON	330		1/4W	
R406	1-249-469-11	CARBON	100K	5%	1/4W	
R407	1-247-700-11	CARBON	100	5%	1/4W	
R408	1-249-469-11	CARBON	100K	5%	1/4W	
R409	1-247-710-11	CARBON	560	5%	1/4W	
R410	1-247-710-11	CARBON	560	5%	1/4W	
R411	1-247-725-11	CARBON	10K	5%	1/4W	
R412	1-249-484-11	CARBON	6.8	5%	1/2W	
R413	1-247-739-11	CARBON	100	5%	1/2W	
R414	1-247-138-00	CARBON	2K	5%	1/4W	
R415	1-249-542-11	CARBON	390	5%	1/4W	
R416	1-214-937-00	CARBON	1M	5%	1/2W	
R417	1-249-844-11	CARBON	56K	5%	1/2W	
R418	1-249-818-11	CARBON	4.7K	1%	1/2W	
R419	1-247-713-11	CARBON	1K	5%	1/4W	
R431	1-259-428-11	(WG)...CARBON	1K	5%	1/6W	
R432	1-259-428-11	(WG)...CARBON	1K	5%	1/6W	
R455	1-247-706-11	(EXCEPT WG)...CARBON	330		1/4W	
R456	1-249-469-11	CARBON	100K	5%	1/4W	
R457	1-247-700-11	CARBON	100	5%	1/4W	
R458	1-249-469-11	CARBON	100K	5%	1/4W	
R459	1-247-710-11	CARBON	560	5%	1/4W	
R460	1-247-710-11	CARBON	560	5%	1/4W	
R461	1-247-725-11	CARBON	10K	5%	1/4W	
R462	1-249-484-11	CARBON	6.8	5%	1/2W	
R463	1-247-739-11	CARBON	100	5%	1/2W	
R465	1-249-542-11	CARBON	390	5%	1/4W	
R466	1-214-937-00	CARBON	1M	5%	1/2W	

Ref.No.	Part No.	Description				
R467	1-249-844-11	CARBON	56K	5%	1/2W	
R468	1-249-818-11	CARBON	4.7K	1%	1/2W	
R469	1-247-713-11	CARBON	1K	5%	1/4W	
R481	1-259-428-11	(WG)...CARBON	1K	5%	1/6W	
R482	1-259-428-11	(WG)...CARBON	1K	5%	1/6W	
R902	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R903	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R952	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R953	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
RT301	1-237-455-11	RES, ADJ, CARBON	500		(IDLING)	
RT351	1-237-455-11	RES, ADJ, CARBON	500		(IDLING)	
RV101	1-241-162-11	RES, VAR, CARBON	250K/250K		(BALANCE)	
RV102	1-241-163-11	RES, VAR, CARBON	125K		(TREBLE)	
RV103	1-241-164-11	RES, VAR, CARBON	260K		(BASS)	
RV104	1-241-165-11	RES, VAR, CARBON	40K/40K		(ATTENUATOR)	
RY301	1-515-676-11	RELAY				
RY302	1-515-676-11	RELAY				
S201	1-571-824-11	SWITCH, ROTARY (INPUT SELECTOR)				
S202	1-571-826-11	SWITCH, ROTARY (INPUT SELECTOR)				
S203	1-571-823-11	SWITCH, ROTARY SLIDE (REC OUT SELECTOR)				
S204	1-571-828-11	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)				
S205	1-572-417-11	SWITCH, PUSH (2 KEY)(MUTING/SUBSONIC)				
S206	1-571-822-11	SWITCH, ROTARY SLIDE (SPEAKERS)				
S207	1-571-825-11	SWITCH, ROTARY (MODE)				
S401	1-571-111-11	SWITCH, PUSH (1 KEY)(CARTRIDGE)				
S501	△.1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)				
T1	△.1-450-170-11	(Canadian)...TRANSFORMER, POWER				
T1	△.1-450-173-11	(AEP,WG)....TRANSFORMER, POWER				
T1	△.1-450-174-11	(UK).....TRANSFORMER, POWER				
TM501	1-537-228-11	(WG).....TERMINAL BOARD (SP)				
TM501	1-537-235-11	(EXCEPT WG)....TERMINAL BOARD (SP)				
VH4	*1-564-321-00	(EXCEPT Canadian)...PIN, CONNECTOR 2P				
VH5	*1-565-792-11	(EXCEPT Canadian)...PIN, CONNECTOR 2P				
VH6	*1-564-321-00	(EXCEPT Canadian)...PIN, CONNECTOR 2P				
VH8	*1-564-241-00	PIN, CONNECTOR 4P				
VH10	*1-564-321-00	(Canadian)...PIN, CONNECTOR 2P				
VH11	*1-565-792-11	(Canadian)...PIN, CONNECTOR 2P				
VH12	1-564-320-00	PIN, CONNECTOR 2P				
VH15	*1-565-792-11	PIN, CONNECTOR 2P				

ACCESSORY & PACKING MATERIAL

- \*3-703-710-41 STICKER, SONY SYMBOL (12)
- 3-752-025-11 (AEP,UK,Canadian)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,PORTUGUESE)
- 3-752-025-41 (AEP,WG)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)
- \*4-929-219-01 CUSHION
- \*4-937-830-01 INDIVIDUAL CARTON

**Note:**  
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

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