

# SRS-A31/A41/PC41

## SERVICE MANUAL

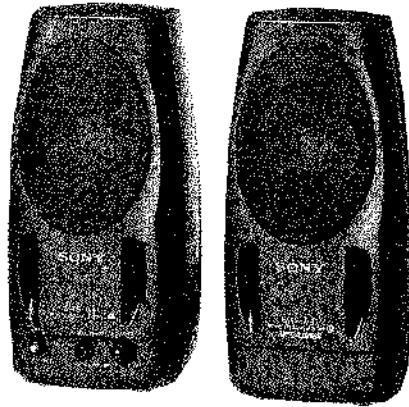


Photo: SRS-A41

*US Model*  
SRS-A41/PC41

*Canadian Model*  
AEP Model

*UK Model*

*E Model*

SRS-A31/A41/PC41

*Tourist Model*  
SRS-A41

*Australian Model*  
SRS-PC41

### SPECIFICATIONS

#### Amplifier section

Power output 3 W + 3 W  
Input impedance 4.7 kilohms (at 1 kHz)

#### Speaker section

System Full-range bass reflex type  
Speaker unit Full-range (magnetically shielded)  
ø 65 mm (2 5/8 in.)  
Nominal impedance 6 ohms (OFF/DIRECT)  
Rated input power 3 W (OFF/DIRECT)

#### General

Power requirement DC 9 V, six size AA (R6) batteries (left speaker only)  
Input cord  
left: stereo miniplug (1.0 m) (SRS-A31/A41)  
left: stereo miniplug (2.0 m) (SRS-PC41)  
right: monaural miniplug (1.0 m) (SRS-A31/A41)  
right: monaural miniplug (2.0 m) (SRS-PC41)

Battery life (at 5 mW + 5 mW output)

Approx. 17 hours with Sony batteries R6P (SR),  
Approx. 35 hours with Sony alkaline batteries LR6 (SG)

Dimensions Approx. 95 × 205 × 110 mm (w/h/d)  
(3 3/4 × 8 1/4 × 4 3/8 in.)

Mass Left speaker: Approx. 580 g  
(1 lb. 4 oz.), Right speaker: Approx.  
500 g (1 lb 2 oz.) not incl. batteries

#### Supplied accessory

AC power adaptor (SRS-A41/PC41)

Design and specifications are subject to change without notice.

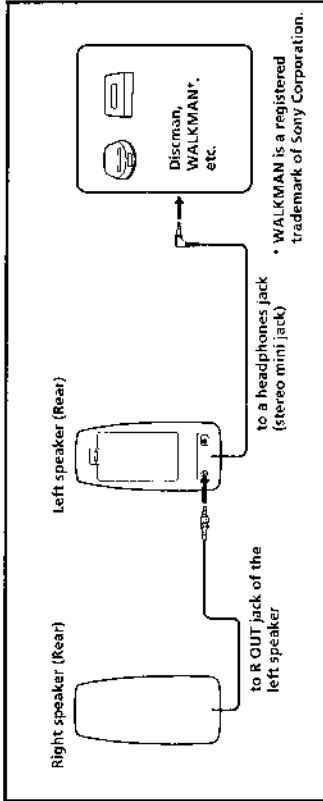
**ACTIVE SPEAKER SYSTEM**  
**SONY®**

# SECTION 1 GENERAL

This section is extracted from instruction manual.

SRS-A31/A41

## Connections



Connect the left speaker to the source equipment.

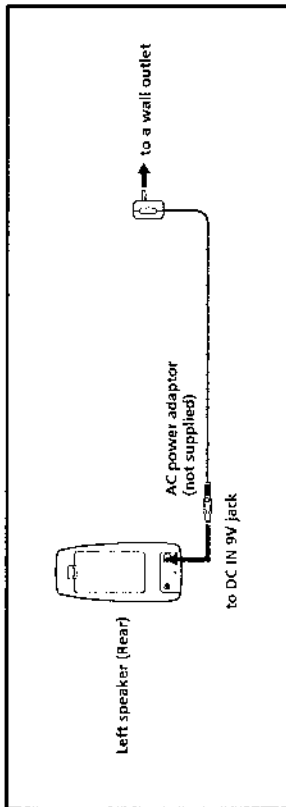
**To connect to a stereo phone-type headphones jack**  
Use the optional PC-2545 plug adaptor or RK-G138 connecting cord.

When the system is connected to a monaural jack of a radio, etc., the sound may only come through the left speaker. In such a case, use the optional Sony plug adaptor PC-2545MS.

The sound will come through both speakers.

## Power Sources

### Using on house current

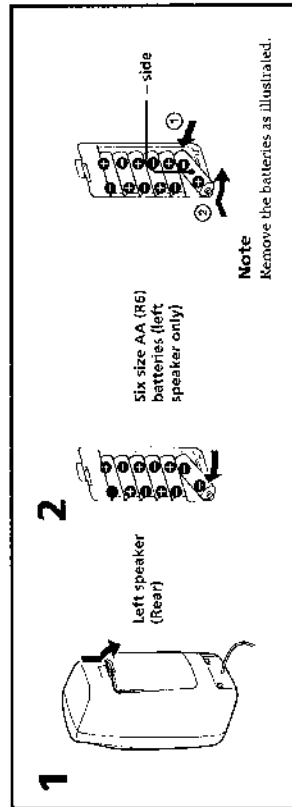


When the AC power adaptor is connected to the system, internal batteries are automatically disconnected.

**Note on the AC power adaptor**  
Use only the AC-E00HG AC power adaptor (not supplied). Do not use any other AC power adaptor.



## Battery installation

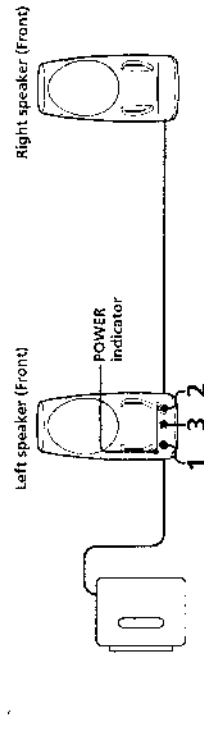


### Battery Replacement

When the batteries are weak, the POWER indicator will start flickering and become faint, or the playback sound will be distorted or unstable. In such a case, replace all the batteries with new ones. For battery life, see "Specifications."

## How to Use

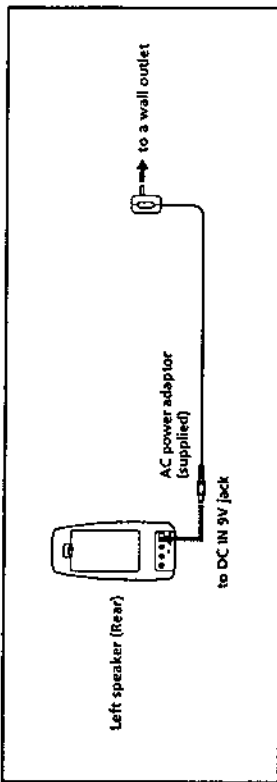
### Listening to the sound through the built-in amplifier



- 1 Press the POWER switch (I OFF/ DIRECT).  
The POWER indicator lights up.
  - 2 Adjust the VOLUME control.
  - 3 Press the MEGA BASS switch (I ON) to reinforce the bass.  
Turn off the MEGA BASS (Walkman) or BASS BOOST (Discman, etc.) function as it may cause sound distortion.  
Press the switch again (I OFF) to cancel the bass boost function.
- After listening, press the POWER switch (I OFF/ DIRECT).  
The POWER indicator goes off.
- Listening to the sound without the built-in amplifier**  
Set the POWER switch (I OFF/DIRECT). In this case, the VOLUME control and the MEGA BASS switch do not operate. Adjust the volume with the connected equipment.

## Power Sources

### Using on house current

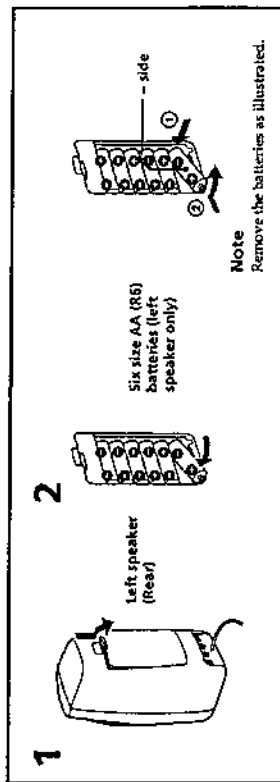


When the AC power adaptor is connected to the system, internal batteries are automatically disconnected.

**Note on the AC power adaptor**  
Use only the supplied AC power adaptor. Do not use any other AC power adaptor.

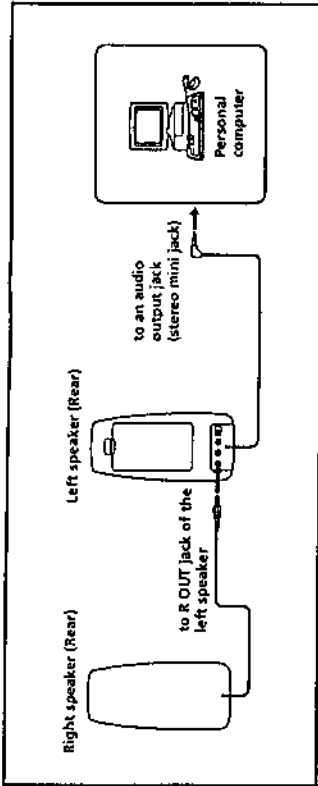


## Battery installation



**Battery Replacement**  
When the batteries are weak, the POWER indicator will start flickering and become faint, or the playback sound will be distorted or unstable. In such a case, replace all the batteries with new ones. For battery life, see "Specifications".

## Connections

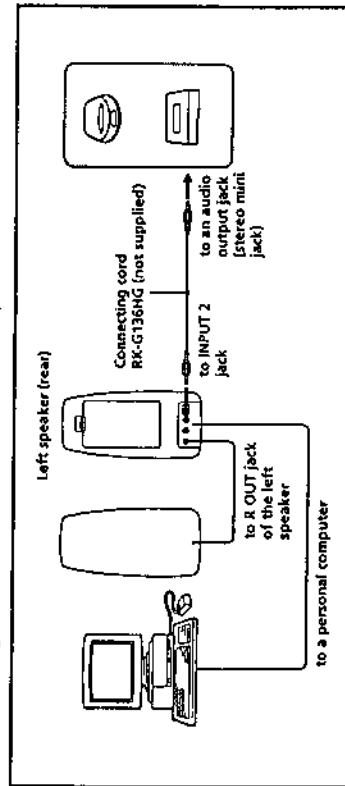


Connect the left speaker to the source equipment.

When the system is connected to a monaural jack of a radio, etc., the sound may only come through the left speaker. In such a case, use the optional Sony plug adaptor PC-236MS. The sound will come through both speakers.

**To connect to a stereo phone-type headphones jack**  
Use the optional PC-234S plug adaptor or RK-G138 connecting cord.

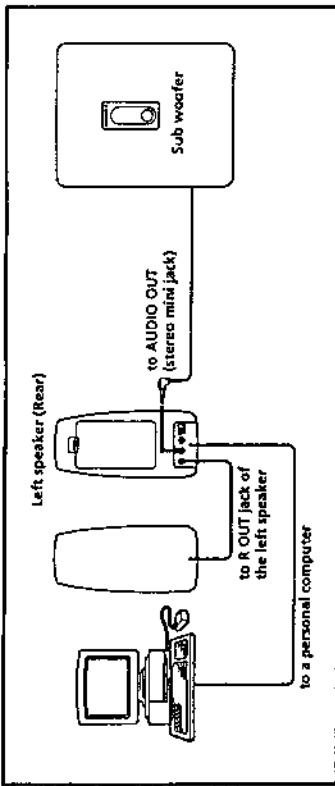
## Connecting to a Discman, Walkman, etc.



**Note**

When two types of equipment are connected to the system and are played at the same time, the sound from both of them will come out of the speakers. When you wish to play only one equipment, make sure that the other equipment is turned off or its volume is turned down.

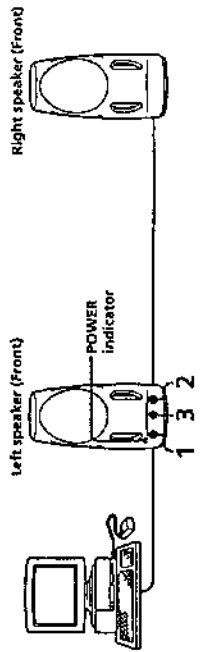
## Connecting to a sub woofer



Connect a sub woofer to AUDIO OUT jack (stereo mini jack). The volume of the connected speaker system is adjustable with the VOLUME control.

## How to Use

### Listening to the sound through the built-in amplifier



- 1 Press the POWER switch (⏻ ON). The POWER indicator lights up.
- 2 Adjust the VOLUME control.
- 3

Press the IBB switch (⏻ ON) to reinforce the bass.

Turn off the MEGABASS (Walkman) or BASS BOOST (Discman, etc.) function as it may cause sound distortion.

Press the switch again (⏻ OFF) to cancel the bass boost function.

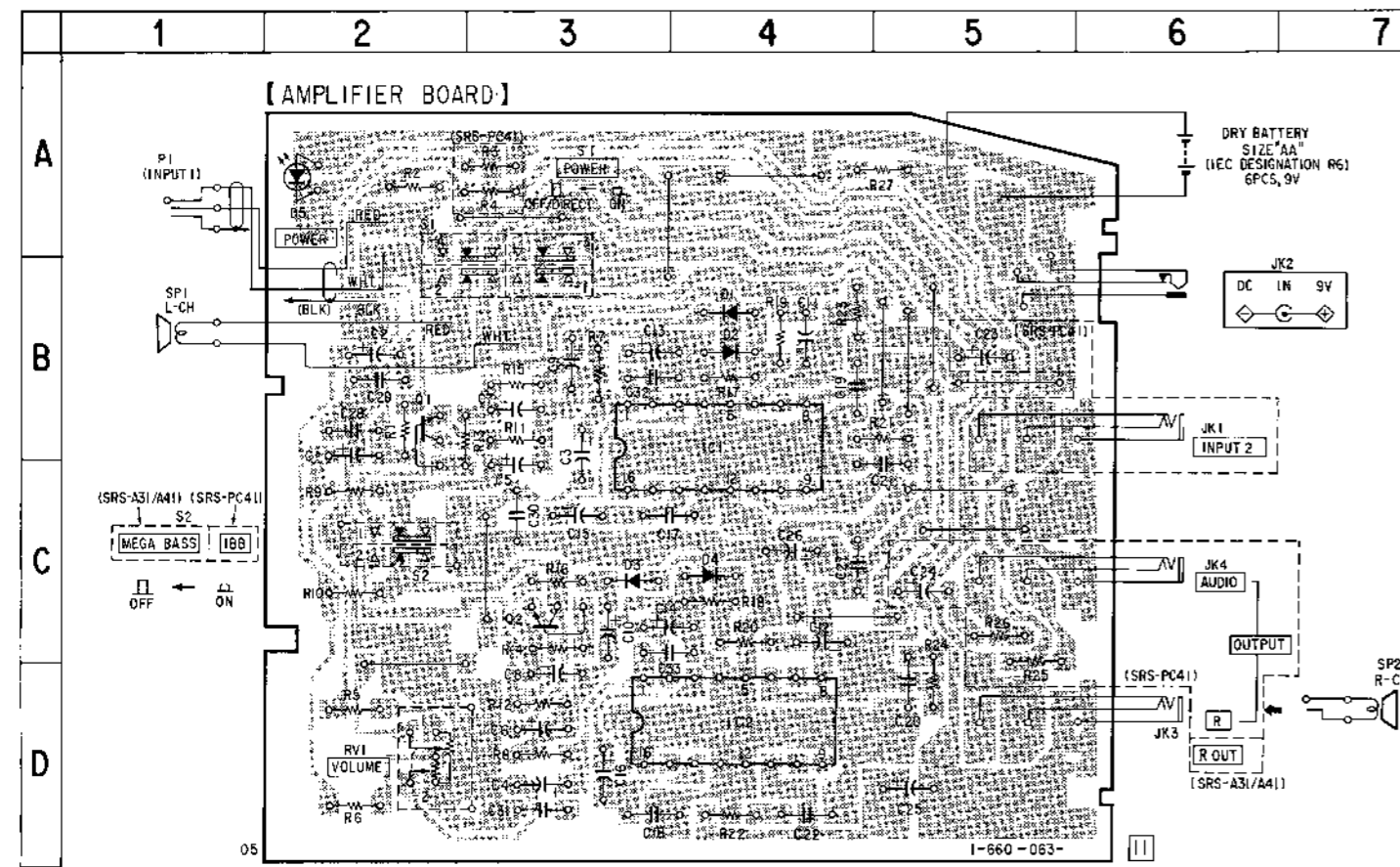
After listening, press the POWER switch (⏻ OFF/DIRECT). The POWER indicator goes off.

### Listening to the sound without the built-in amplifier

Set the POWER switch (⏻ OFF/DIRECT). In this case, the VOLUME control and the IBB switch do not operate. Adjust the volume with the connected equipment.

SECTION 2  
DIAGRAMS

2-1. PRINTED WIRING BOARD



• Semiconductor Location

Ref. No.	Location
D1	B-4
D2	B-4
D3	C-3
D4	C-4
D5	A-2
IC1	B-4
IC2	D-4
Q1	B-2
Q2	C-3

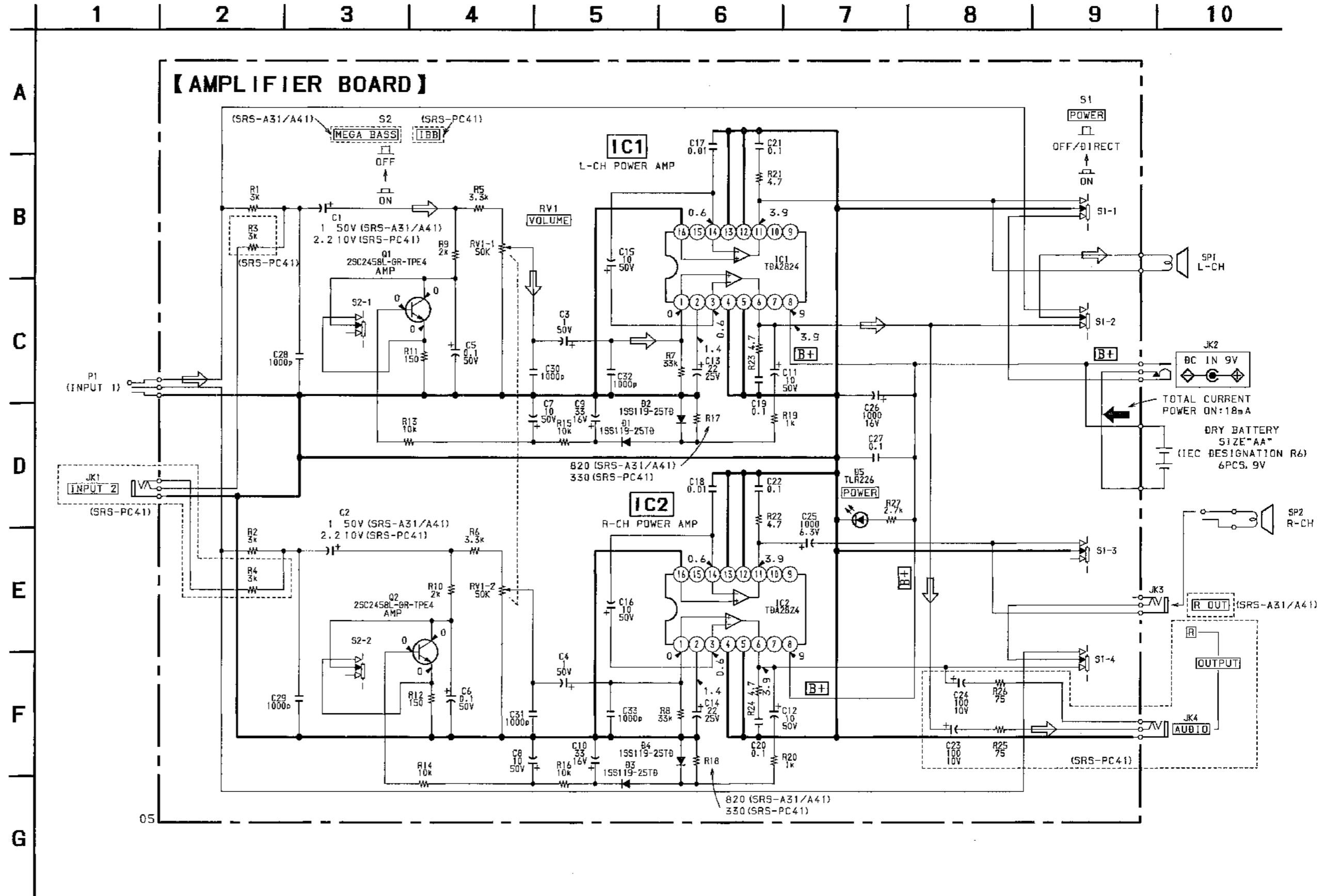
Note on Printed Wiring Board:

- : parts extracted from the component side.
- : parts extracted from the conductor side.

Note on Schematic Diagram:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4} W$  or less unless otherwise specified.
- Panel designation.
- B+ : B + Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.

2-2. SCHEMATIC DIAGRAM

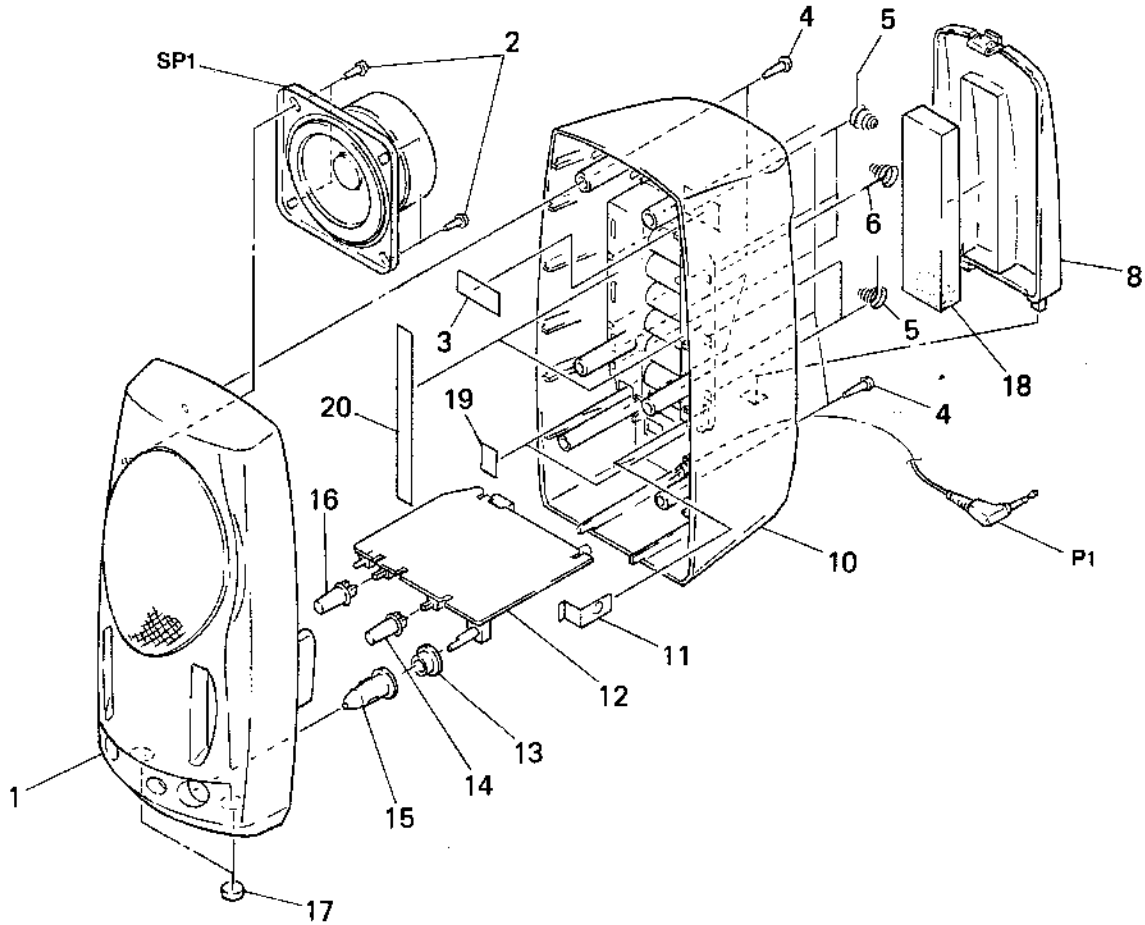


## SECTION 3 EXPLODED VIEWS

**NOTE:**

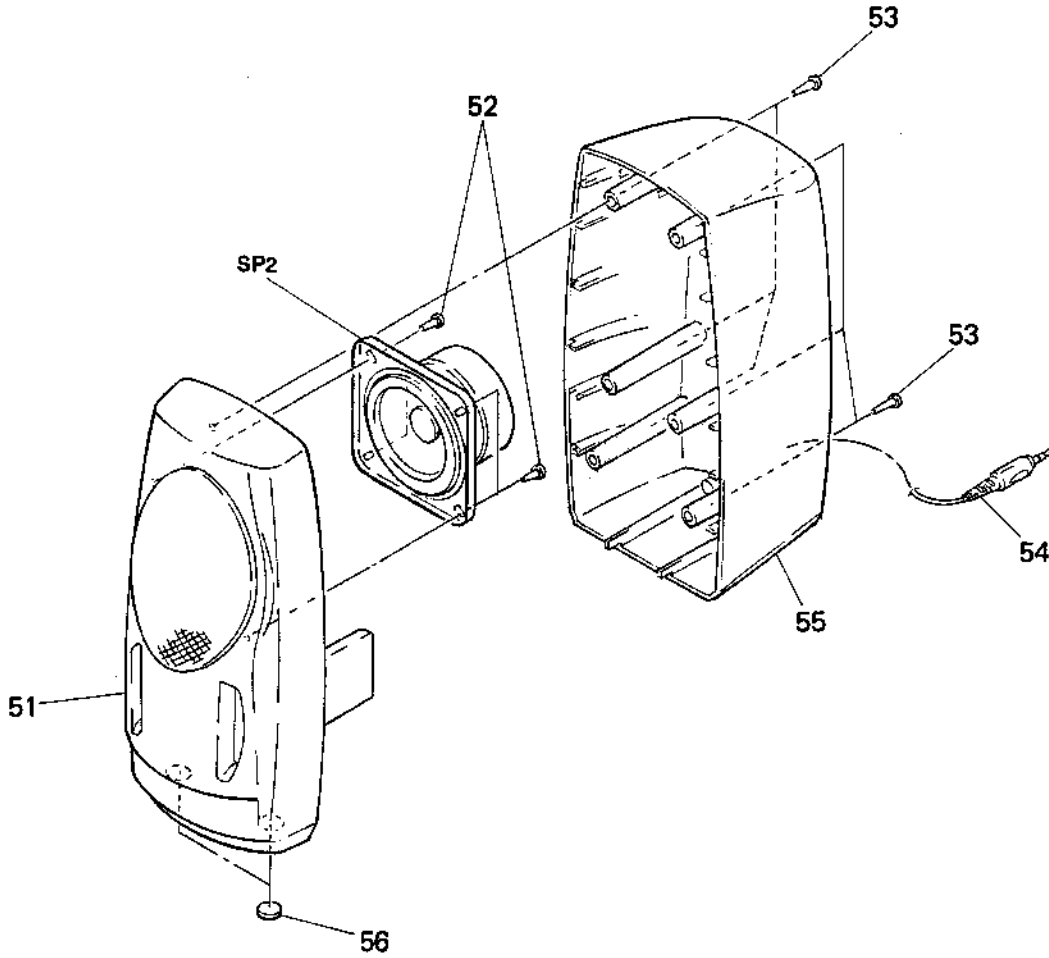
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE) ... (RED)  
          ↑                  ↑  
Parts Color  Cabinet's Color
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

**(1) CABINET SECTION (L)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-4947-090-1	CABINET (L) ASSY. FRONT (BLACK) (A41)		14	4-981-127-01	BUTTON (BASS) (BLACK) (A31, A41)	
1	X-4947-094-1	CABINET (L) ASSY. FRONT (BLACK) (A31)		14	4-981-127-11	BUTTON (BASS) (WHITE) (PC41)	
1	X-4947-096-1	CABINET (L) ASSY. FRONT (WHITE) (PC41)		15	4-981-123-01	KNOB (VOL) (BLACK) (A31, A41)	
2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		15	4-981-123-11	KNOB (VOL) (WHITE) (PC41)	
3	3-555-858-01	CUSHION (25X15X0.5)		16	4-981-124-01	BUTTON (POWER) (BLACK) (A31, A41)	
4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S		16	4-981-124-11	BUTTON (POWER) (WHITE) (PC41)	
5	4-981-125-01	SPRING (1), BATTERY COIL		17	4-981-856-01	FOOT, RUBBER	
6	4-987-264-01	SPRING (MINUS), BATTERY COIL		18	4-981-128-01	CUSHION	
8	4-981-121-01	LID, BATTERY CASE (BLACK) (A31, A41)		19	4-982-232-01	SHEET, BLIND	
8	4-981-121-11	LID, BATTERY CASE (WHITE) (PC41)		20	9-911-835-XX	CUSHION, F	
10	4-981-119-01	CABINET (L), REAR (BLACK) (A41)		P1	1-559-891-31	CORD (WITH PLUG) (L) (INPUT 1)	
10	4-981-119-11	CABINET (L), REAR (WHITE) (PC41)					(BLACK) (A31, A41)
10	4-981-119-31	CABINET (L), REAR (BLACK) (A31)		P1	1-559-891-41	CORD (WITH PLUG) (L) (INPUT 1)	
11	2-143-931-01	TERMINAL, PLUS BATTERY					(WHITE) (PC41)
* 12	1-660-063-11	AMPLIFIER BOARD		SP1	1-505-301-11	SPEAKER (L) (A31, A41:US, PC41:US)	
13	2-141-216-01	SPACER (VOL)		SP1	1-505-293-11	SPEAKER (L) (A41:AEP/UK/E/Tourist, PC41:AEP/UK/E/Australian)	

(2) CABINET SECTION (R)



Ref. No.	Part No.	Description	Remark
51	X-4947-091-1	CABINET (R) ASSY, FRONT (BLACK) (A41)	
51	X-4947-095-1	CABINET (R) ASSY, FRONT (BLACK) (A31)	
51	X-4947-097-1	CABINET (R) ASSY, FRONT (WHITE) (PC41)	
52	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
53	7-605-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
54	1-769-080-11	CORD (WITH PLUG) (R) (BLACK) (A31, A41)	
54	1-775-692-21	CORD (WITH PLUG) (R) (WHITE) (PC41)	

Ref. No.	Part No.	Description	Remark
55	4-981-120-01	CABINET (R), REAR (BLACK) (A41)	
55	4-981-120-11	CABINET (R), REAR (WHITE) (PC41)	
55	4-981-120-31	CABINET (R), REAR (BLACK) (A31)	
56	4-981-856-01	FOOT, RUBBER	
SP2	1-505-301-11	SPEAKER (R) (A31, A41:US, PC41:US)	
SP2	1-505-293-11	SPEAKER (R) (A41:AEP/UK/E/Tourist, PC41:AEP/UK/E/Australian)	

# SECTION 4

## ELECTRICAL PARTS LIST

### AMPLIFIER

**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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS  
All resistors are in ohms.  
METAL: Metal-film resistor.  
METAL OXIDE: Metal oxide-film resistor.  
F: nonflammable
- Abbreviation  
E41: 230V AC area    E92: 120V AC area

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA.:  $\mu$ A.    uPA.:  $\mu$ PA.  
uPB.:  $\mu$ PB.    uPC.:  $\mu$ PC.    uPD.:  $\mu$ PD.
- CAPACITORS  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

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.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	1-660-063-11	AMPLIFIER BOARD *****  < CAPACITOR >	
C1	1-124-903-11	ELECT	1uF    20%    50V (A31/A41)
C1	1-124-925-11	ELECT	2.2uF    20%    10V (PC41)
C2	1-124-903-11	ELECT	1uF    20%    50V (A31/A41)
C2	1-124-925-11	ELECT	2.2uF    20%    10V (PC41)
C3	1-124-903-11	ELECT	1uF    20%    50V
C4	1-124-903-11	ELECT	1uF    20%    50V
C5	1-126-956-00	ELECT	0.1uF    20%    50V
C6	1-126-956-00	ELECT	0.1uF    20%    50V
C7	1-126-964-11	ELECT	10uF    20%    50V
C8	1-126-964-11	ELECT	10uF    20%    50V
C9	1-104-663-11	ELECT	33uF    20%    16V
C10	1-104-663-11	ELECT	33uF    20%    16V
C11	1-126-964-11	ELECT	10uF    20%    50V
C12	1-126-964-11	ELECT	10uF    20%    50V
C13	1-126-233-11	ELECT	22uF    20%    50V
C14	1-126-233-11	ELECT	22uF    20%    50V
C15	1-126-964-11	ELECT	10uF    20%    50V
C16	1-126-964-11	ELECT	10uF    20%    50V
C17	1-130-483-00	MYLAR	0.01uF    5%    50V
C18	1-130-483-00	MYLAR	0.01uF    5%    50V
C19	1-130-495-00	MYLAR	0.1uF    5%    50V
C20	1-130-495-00	MYLAR	0.1uF    5%    50V
C21	1-130-495-00	MYLAR	0.1uF    5%    50V
C22	1-130-495-00	MYLAR	0.1uF    5%    50V
C23	1-126-933-11	ELECT	100uF    20%    10V (PC41)
C24	1-126-933-11	ELECT	100uF    20%    10V (PC41)
C25	1-126-916-11	ELECT	1000uF    20%    6.3V
C26	1-126-952-11	ELECT	1000uF    20%    16V
C27	1-162-851-11	CERAMIC	0.1uF    16V
C28	1-162-294-31	CERAMIC	0.001uF    10%    50V

Ref. No.	Part No.	Description	Remark
C29	1-162-294-31	CERAMIC	0.001uF    10%    50V
C30	1-162-294-31	CERAMIC	0.001uF    10%    50V
C31	1-162-294-31	CERAMIC	0.001uF    10%    50V
C32	1-162-294-31	CERAMIC	0.001uF    10%    50V
C33	1-162-294-31	CERAMIC	0.001uF    10%    50V
< DIODE >			
D1	8-719-911-19	DIODE	1SS119
D2	8-719-911-19	DIODE	1SS119
D3	8-719-911-19	DIODE	1SS119
D4	8-719-911-19	DIODE	1SS119
D5	8-719-812-26	DIODE	TLR226 (POWER)
< IC >			
IC1	8-759-194-70	IC	TDA2824
IC2	8-759-194-70	IC	TDA2824
< JACK >			
JK1	1-566-822-21	JACK (INPUT 2)	(PC41)
JK2	1-569-966-11	JACK, DC	(DC IN 9V)
JK3	1-566-822-21	JACK (R OUT)	(A31/A41)
JK3	1-566-822-21	JACK (OUTPUT R)	(PC41)
JK4	1-566-822-21	JACK (OUTPUT AUDIO)	(PC41)
< TRANSISTOR >			
Q1	8-729-205-83	TRANSISTOR	2SC2458L-GR
Q2	8-729-205-83	TRANSISTOR	2SC2458L-GR
< RESISTOR >			
R1	1-247-842-11	CARBON	3K    5%    1/4W
R2	1-247-842-11	CARBON	3K    5%    1/4W
R3	1-247-842-11	CARBON	3K    5%    1/4W (PC41)
R4	1-247-842-11	CARBON	3K    5%    1/4W (PC41)
R5	1-249-423-11	CARBON	3.3K    5%    1/4W F
R6	1-249-423-11	CARBON	3.3K    5%    1/4W F
R7	1-249-435-11	CARBON	33K    5%    1/4W
R8	1-249-435-11	CARBON	33K    5%    1/4W
R9	1-247-838-00	CARBON	2K    5%    1/4W
R10	1-247-838-00	CARBON	2K    5%    1/4W



# AMPLIFIER

Ref. No.	Part No.	Description	Remark		
R11	1-249-407-11	CARBON	150	5%	1/4W F
R12	1-249-407-11	CARBON	150	5%	1/4W F
R13	1-249-429-11	CARBON	10K	5%	1/4W
R14	1-249-429-11	CARBON	10K	5%	1/4W
R15	1-249-429-11	CARBON	10K	5%	1/4W
R16	1-249-429-11	CARBON	10K	5%	1/4W
R17	1-249-411-11	CARBON	330	5%	1/4W (PC41)
R17	1-249-416-11	CARBON	820	5%	1/4W F (A31/A41)
R18	1-249-411-11	CARBON	330	5%	1/4W (PC41)
R18	1-249-416-11	CARBON	820	5%	1/4W F (A31/A41)
R19	1-249-417-11	CARBON	1K	5%	1/4W F
R20	1-249-417-11	CARBON	1K	5%	1/4W F
R21	1-249-389-11	CARBON	4.7	5%	1/4W F
R22	1-249-389-11	CARBON	4.7	5%	1/4W F
R23	1-249-389-11	CARBON	4.7	5%	1/4W F
R24	1-249-389-11	CARBON	4.7	5%	1/4W F
R25	1-247-804-11	CARBON	75	5%	1/4W (PC41)
R26	1-247-804-11	CARBON	75	5%	1/4W (PC41)
R27	1-249-422-11	CARBON	2.7K	5%	1/4W F

< SWITCH >

S1	1-692-040-11	SWITCH, PUSH (1 KEY) (POWER)
S2	1-570-913-11	SWITCH, PUSH (MEGA BASS) (A31/A41)
S2	1-570-913-11	SWITCH, PUSH (188) (PC41)

< VARIABLE RESISTOR >

RV1	1-225-279-11	RES, VAR 50K/50K (VOLUME)
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MISCELLANEOUS

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54	1-769-080-11	CORD (WITH PLUG) (R) (BLACK) (A31, A41)
54	1-775-692-21	CORD (WITH PLUG) (R) (WHITE) (PC41)
P1	1-559-891-31	CORD (WITH PLUG) (L) (INPUT 1) (BLACK) (A31, A41)
P1	1-559-891-41	CORD (WITH PLUG) (L) (INPUT 1) (WHITE) (PC41)
SP1	1-505-301-11	SPEAKER (L) (A31, A41:US, PC41:US)
SP1	1-505-293-11	SPEAKER (L) (A41:AEP/UK/E/Tourist, PC41:AEP/UK/E)
SP2	1-505-301-11	SPEAKER (R) (A31, A41:US, PC41:US)
SP2	1-505-293-11	SPEAKER (R) (A41:AEP/UK/E/Tourist, PC41:AEP/UK/E)

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Ref. No.	Part No.	Description	Remark
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ACCESSORIES & PACKING MATERIALS

\*\*\*\*\*

△	1-465-817-31	ADAPTOR, AC (AC-96NES) (A41:AEP/E41, PC41:AEP/E41)
△	1-467-731-21	ADAPTOR, AC (A41:UK, PC41:UK)
△	1-467-852-21	ADAPTOR, AC (PC41:Australian)
△	1-693-007-21	ADAPTOR, AC (AC-S195) (A41:Tourist)
△	1-693-029-11	ADAPTOR, AC (AC-96NB) (A41:Canadian/E92, PC41:US/Canadian/E92)
	3-856-031-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, PORTUGUESE, ITALIAN) (A31, A41:Canadian/AEP/UK/E/Tourist)
	3-856-031-21	MANUAL, INSTRUCTION (ENGLISH) (A41:US)
	3-856-031-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, PORTUGUESE, ITALIAN) (A31:AEP/UK)
	3-856-032-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, PORTUGUESE, ITALIAN) (PC41:Canadian/AEP/UK/E)
	3-856-032-21	MANUAL, INSTRUCTION (ENGLISH) (PC41:US)
	3-856-032-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, PORTUGUESE, ITALIAN) (A41:AEP/E)

<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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