

# SAVA-57

## SERVICE MANUAL

US Model  
 Canadian Model  
 AEP Model  
 UK Model  
 E Model  
 Australian Model  
 Chinese Model



• TRANSMITTER




• REAR SPEAKER



• FRONT SPEAKER SYSTEM

This speaker system incorporates the Dolby Pro Logic Surround System.\*

\* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

### Audio Power Specifications

For front 2 way speakers: with 8 ohm loads, both channels driven, from 100 Hz – 20 kHz; rated 24 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

### Amplifier section

#### Continuous RMS power output

	Total 200 W
Center	50 W (4 ohms at 1 kHz, 9% THD)
Front	25 W + 25 W (8 ohms at 1 kHz, 9% THD)
Super woofer	35 W + 35 W (6 ohms at 40 Hz, 9% THD)
Rear	30 W (8 ohms at 1 kHz, 9% THD)

#### Input sensitivity/Impedance

1/2 450 mV, 50 kohms

#### CONTROL S

(TV) (for U.S.A. and Canadian customers only)

Only for Sony XBR<sup>2</sup> and Sony Projection TV

(HCD)

Only for Sony HCD-VA550

#### Output

1/2 450 mV, 1 kohms

External center 50 W (4 ohms at 1 kHz, 9% THD), 4-8 ohms

Rear speaker Accepts only EMT-VA57

R-ch speaker Accepts only SAVA-57 R-ch speaker with supplied exclusive speaker cord

## SPECIFICATIONS

### Tone control

Front Bass: ±10 dB at 100 Hz  
 Treble: ±10 dB at 10 kHz

### Speaker section

#### Type

Front Bass reflex type  
 Center Bass reflex type  
 Super woofer SAW type  
 Rear Bass reflex type

### Speaker unit

Center full range: 10 cm cone type (x2)  
 Front tweeter: 5 cm cone type (x2)  
 Front woofer: 12 cm cone type (x2)  
 Super woofer: 16 cm cone type (x2)  
 Rear full range: 10 cm cone type (x2)

### General

#### Power requirement

US, Canadian model: 120 V AC, 60 Hz  
 AEP, UK, German, E, Singapore, Malaysia, Thai, Australian, Chinese model: 220-230 V AC, 50/60 Hz

#### Power consumption

Front speaker  
 US, Canadian model: 130 W  
 AEP, UK, German, E, Singapore, Malaysia, Thai, Australian, Chinese model: 120 W  
 Rear speaker 30 W

### Dimensions

Front speaker: Approx. 285 × 1100 × 460 mm (11 1/4 × 43 3/4 × 18 1/8 inches) (w/h/d, including speaker base)  
 Rear speaker: Approx. 135 × 235 × 185 mm (5 3/8 × 9 3/8 × 7 3/8 inches) (w/h/d)

### Mass

Front speaker(L): 24 kg (53 lb)  
 Front speaker(R): 21 kg (47 lb)  
 Rear speaker(active): 3 kg (7 lb)  
 Rear speaker(passive): 1.5 kg (4 lb)

### Supplied accessories

Wireless rear speaker system SA-IF57 (active 1, passive 1)  
 Wireless infrared transmitter EMT-VA57 (1)  
 Front L/R speaker connecting cord, 3.5 m (1)  
 Rear speaker connecting cord, 10 m (1)  
 Audio connecting cord, 1.5 m (1)  
 Remote commander RM-J57 (1)  
 Sony SUM-3 (NS) batteries (2)  
 SCART adaptor (1) (European model only)

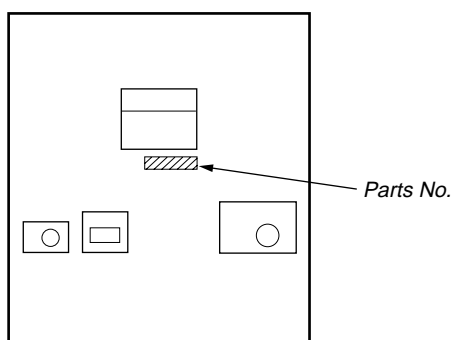
Design and specifications are subject to change without notice.

## HOME THEATER ACTIVE SPEAKER SYSTEM



# SONY®

**MODEL IDENTIFICATION**  
**— BACK PANEL — (L-ch)**



MODEL	PARTS No.
US model	4-991-281-0□
CND model	4-991-281-1□
AEP, UK, G, E, SP, MY, TH, AUS model	4-991-281-2□
CH model	4-991-281-3□

- Abbreviation  
 CND : Canadian model.  
 G : German model.  
 SP : Singapore model.  
 MY : Malaysia model.  
 TH : Thai model.  
 AUS : Australian model.  
 CH : Chinese model.

**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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**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 SERVICING NOTE

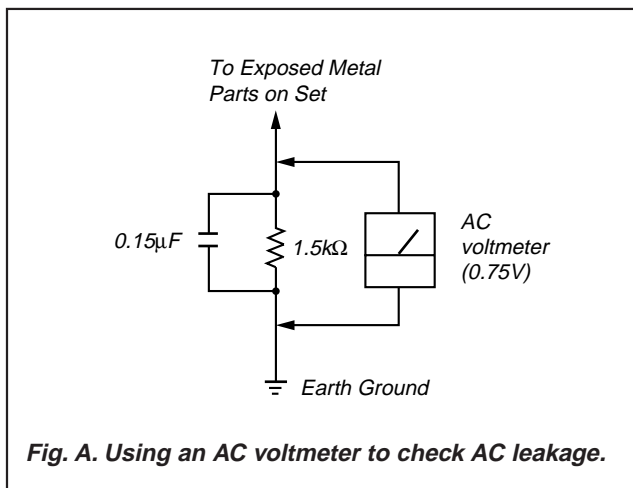
### SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks 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

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.

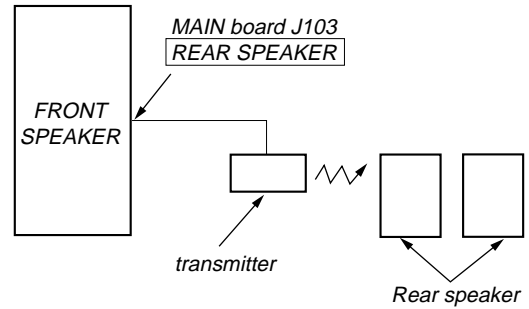
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means 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)



### Connecting the Unit

- This unit is composed of a front speaker, transmitter and rear speaker. As the transmitter does not have its own power supply, connect it to the front speaker as shown below when repairing.

### • Connection

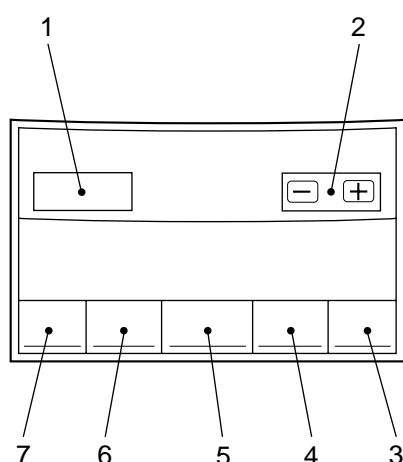


### Auto Power Control of Rear Speaker

- As the rear speaker is equipped with an auto power control, it will set into the STANDBY state if it does not receive carrier wave from the transmitter. When performing repairs, connect the units according to the using environment.

## SECTION 2 GENERAL

### Location of Parts and Controls



- 1 POWER button
- 2 MASTER VOL -/+ button
- 3 S.WOOFER button
- 4 CTR MODE button
- 5 Remote sensor
- 6 SURROUND button
- 7 INPUT button

### Power turns on and off automatically (Auto power on/off function)

You do not need to turn the speaker system on every time you use it. Three minutes after the sound source goes off (when you turn off the TV, or the currently playing video/laserdisc ends), the speakers turn off automatically and the ON/READY indicator turns red. The speakers turn themselves back on the next time you turn on the TV or start playback from the VCR.

**💡 If you press POWER when the speakers are on**  
The speakers switch to the standby mode (the ON/READY indicator goes off), and the auto power on/off function takes no effect. In this case, press POWER again to turn the speakers on.

**💡 If the receptor on the active rear speaker lights red even when the front speakers are powered on**  
When the front speakers are powered on, this should change to green, irrespective of whether an audio source is supplied or not. If it does not change to green, adjust the position and angle of the transmitter. (See "Choosing the Best Location" on page 8.)

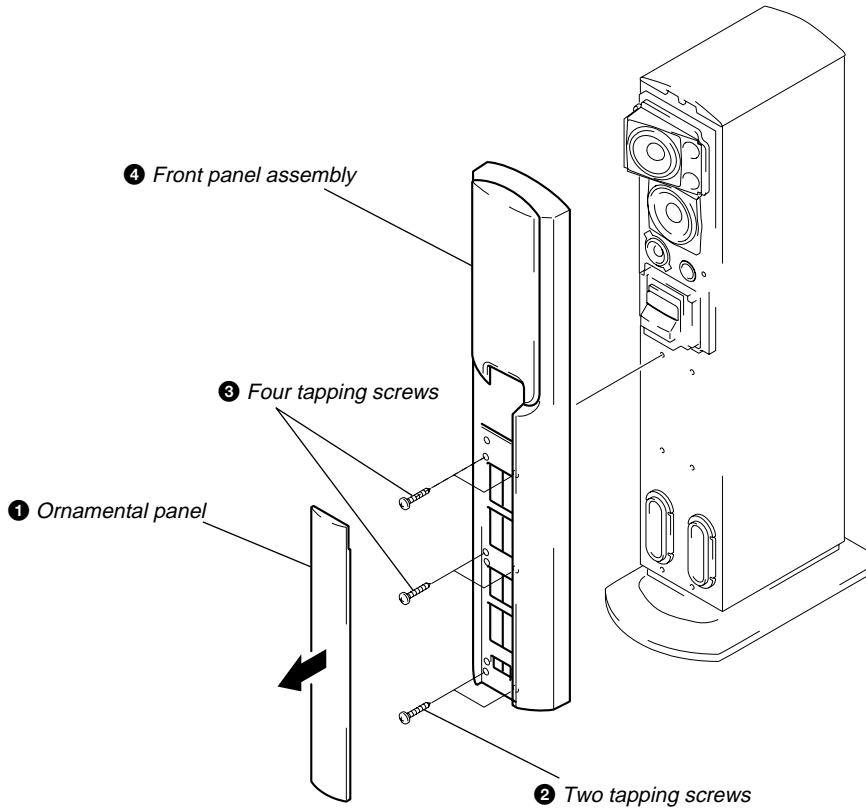
#### Note

If you are using this speaker system connected to an HCD-VA550, depending on the mode of operation the auto power on/off function may not operate.

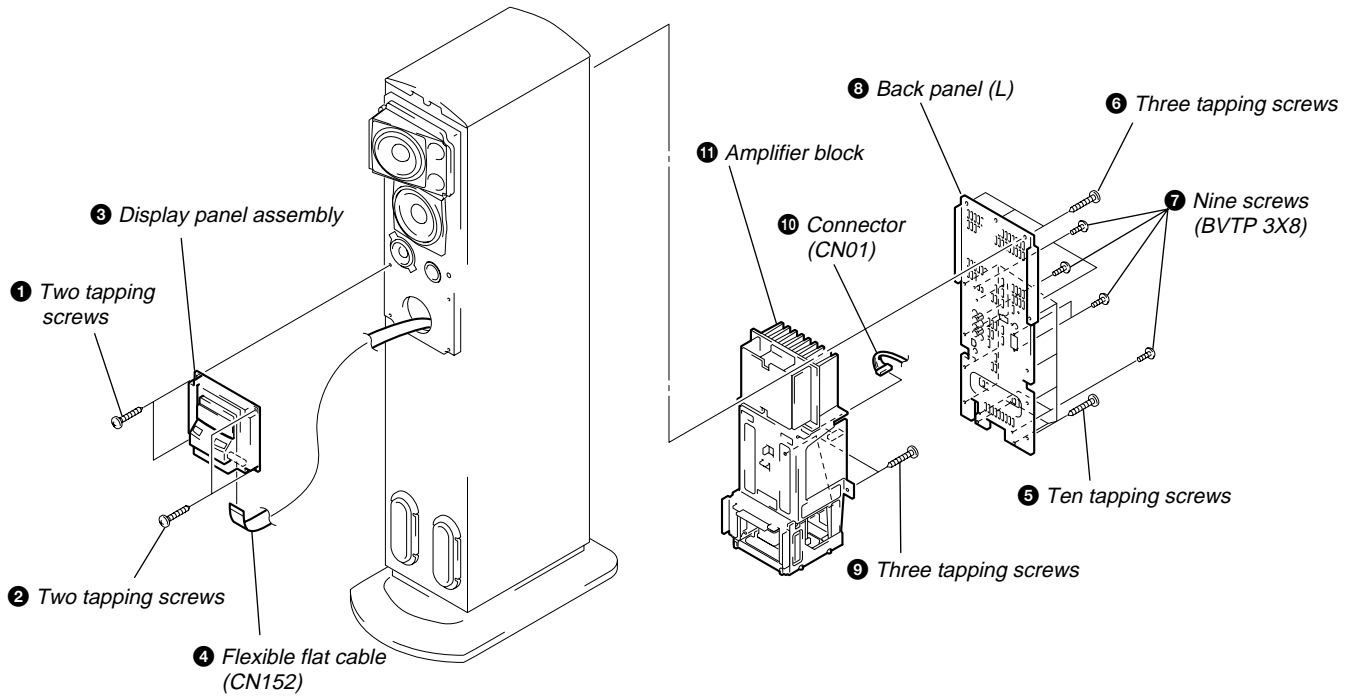
This section is extracted from instruction manual.

## SECTION 3 DISASSEMBLY

### 3-1. FRONT PANEL ASSEMBLY



### 3-2. AMPLIFIER BLOCK



## SECTION 4 TEST MODE

### MODE ALL FLUORESCENT INDICATOR TUBES LIGHT

When the AC plug is inserted to the power outlet with pressing the [MASTER VOL +] button, the all fluorescent indicator tubes light.

### KEY CHECK, LED LIGHTING MODE

1. Pull out the AC plug from the power outlet and turn the power OFF.
2. Connect the lead wire to TP3 on the KEY board.
3. Insert the AC plug to the power outlet and set to STANDBY mode.
4. Let the lead wire connected in step 1 contact to the ground.
5. All fluorescent indicator tubes light, and enter the key check mode.
6. Pressing any buttons, the number of button will be displayed on the fluorescent indicator tube.
7. After all buttons are pressed, it will be in the STANDBY mode.

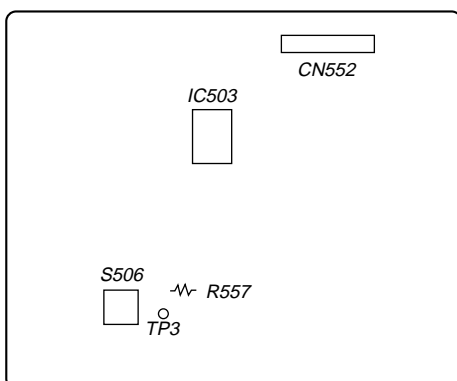
Button	Button Number	LED Color
POWER	2	Red
MASTER VOL -	3	Green
MASTER VOL +	4	Red
INPUT	5	Green
SURROUND	6	Red
CTR MODE	7	Green
S.WOOFER	8	Red

#### Note:

1. The LED (D505) lights while pressing each button.  
The LED lights in red when even number of buttons are pressed, and it lights in green when odd number of buttons are pressed.
2. The LED lights even when the pressed button is pressed again.

#### • Parts Location

### [KEY BOARD] — Conductor side —



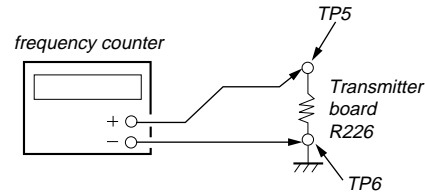
## SECTION 5 ELECTRICAL ADJUSTMENT

### CARRIER FREQUENCY Adjustment

#### Note:

Set the transmitter to the user's environment, connect it to the front speaker, and supply the power. (Refer to Service Note.)

#### Setting:



#### Procedure:

1. Connect the frequency counter to TP5 and TP6 of the two ends of the resistor (R226) of the TRANSMITTER board.
2. Turn ON the power of the front speaker.
3. Adjust L201 of the TRANSMITTER board, and adjust so that the reading of the frequency counter is  $4.3 \text{ MHz} \pm 0.01 \text{ MHz}$ .

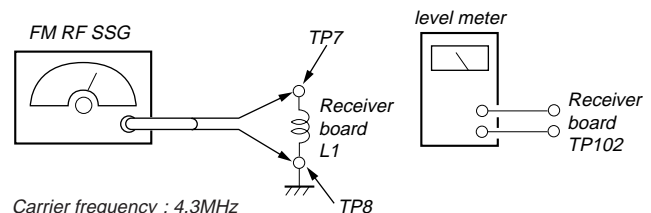
### RECEIVING FREQUENCY, MUTING LEVEL adjustment

#### Note:

Perform procedure 1 if using FM RF SSG and procedure 2 if not. However, as procedure 2 is a simple procedure, adjustment is not accurate.

#### • Procedure 1

#### Setting:



Carrier frequency : 4.3MHz  
Modulation : no modulation  
Output level : 40dB (at 75 Ω open)

#### Procedure:

1. Connect SSG to TP7 and TP8 of the two ends of the coil (L1) of the RECEIVER board.
2. Set the output level of SSG to 40 dB.
3. Insert the AC plug of the unit to the power outlet and supply the power.
4. Adjust IFT103 of the RECEIVER board, and adjust so that the voltage of both ends of TP102 becomes 0V. (RECEIVING FREQUENCY adjustment)
5. Adjust the output level of SSG to 22 dB.
6. Adjust RV102 until D109 turns green from red. (MUTING LEVEL adjustment)

• **Procedure 2**

**Note:**

The adjustment results of this procedure differs according to the distance between the transmitter and rear speaker.

Leave ample distance between the transmitter and rear speaker according to the user's using environment when performing the adjustment.

**Procedure:**

1. Connect the transmitter to the front speaker and turn the power supply on.
2. Adjust IFT103 of the RECEIVER board, and adjust so that the voltage of the two ends of TP102 becomes 0V. (RECEIVING FREQUENCY adjustment)
3. Adjust RV102 of the RECEIVER board of the rear speaker until D109 turns green. (MUTING LEVEL adjustment)
4. Turn OFF the power turned on at STEP 1.
5. Check that D109 of the RECEIVER board of the rear speaker becomes red.  
If green, adjust RV102 so that it turns red, turn ON the power again, and repeat from step 3.
6. After adjusting, check that D109 becomes red when the power of the front speaker is turned OFF and it becomes green when the power is turned ON.

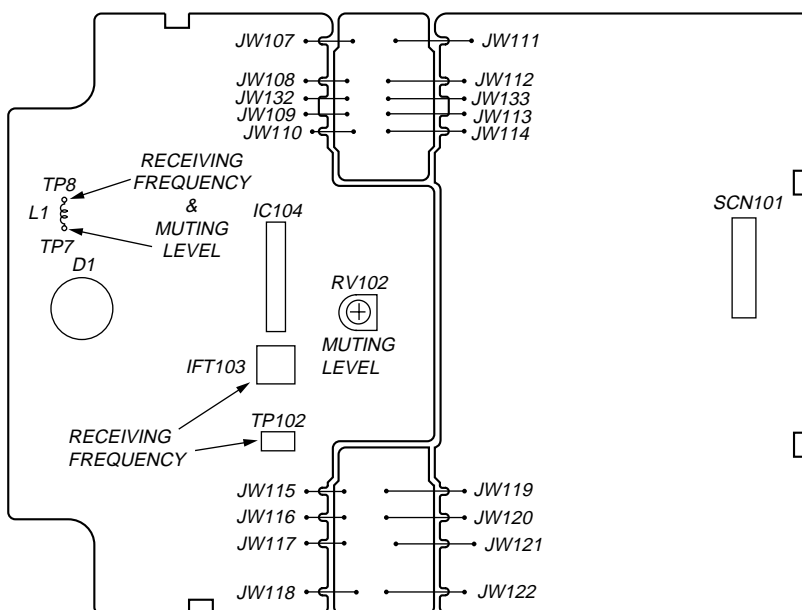
**Reference Information:**

For this adjustment, the reaching distance of the infrared rays increases when the MUTING LEVEL (sensitivity) is raised, but if the power of the front speaker is turned OFF, pop noises are produced from the rear speaker.

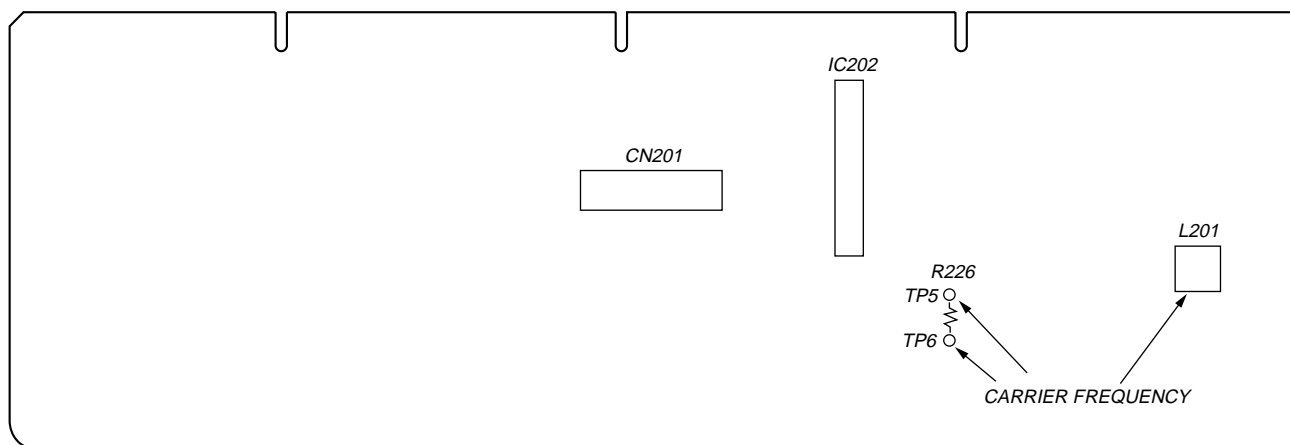
If the MUTING LEVEL (sensitivity) is dropped on the other hand, pop noises are reduced, but the reaching distance of the infrared rays decreases.

Adjust according to the user's using environment.

[RECEIVER BOARD] — Component side —

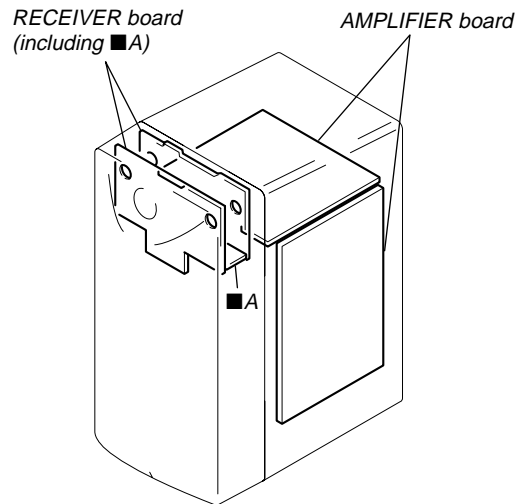
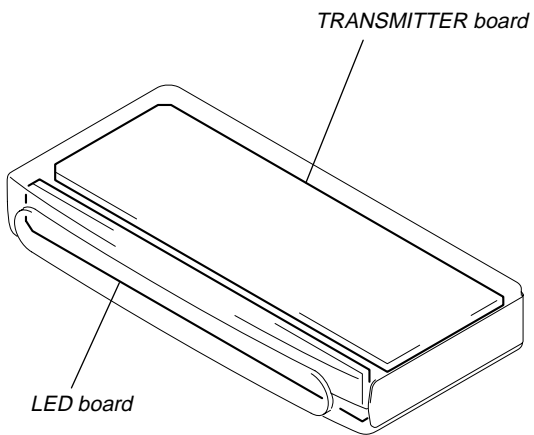
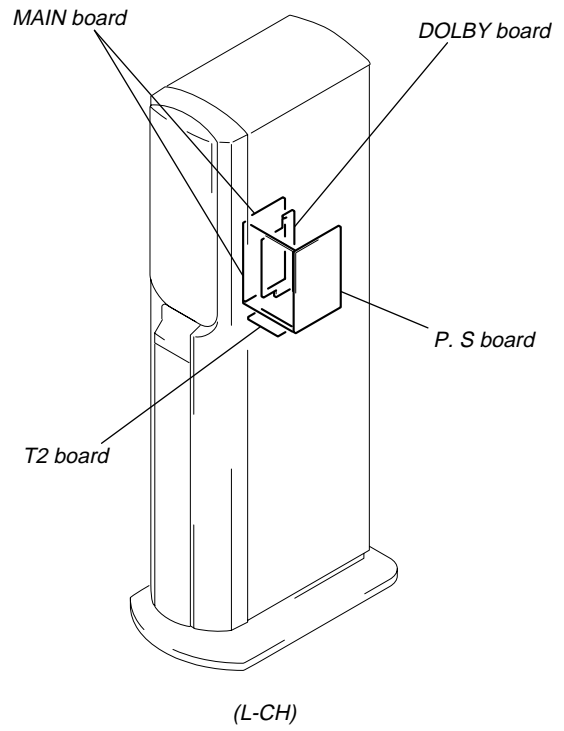
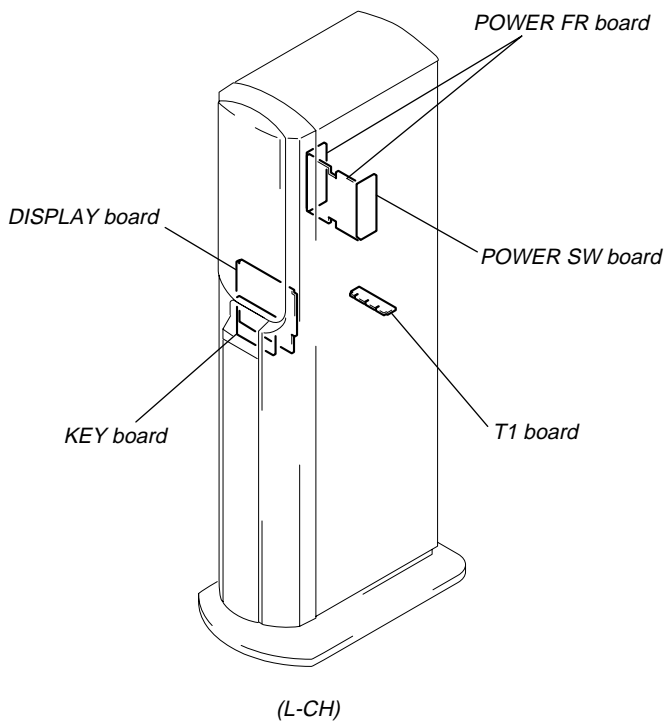


[TRANSMITTER BOARD] — Component side —

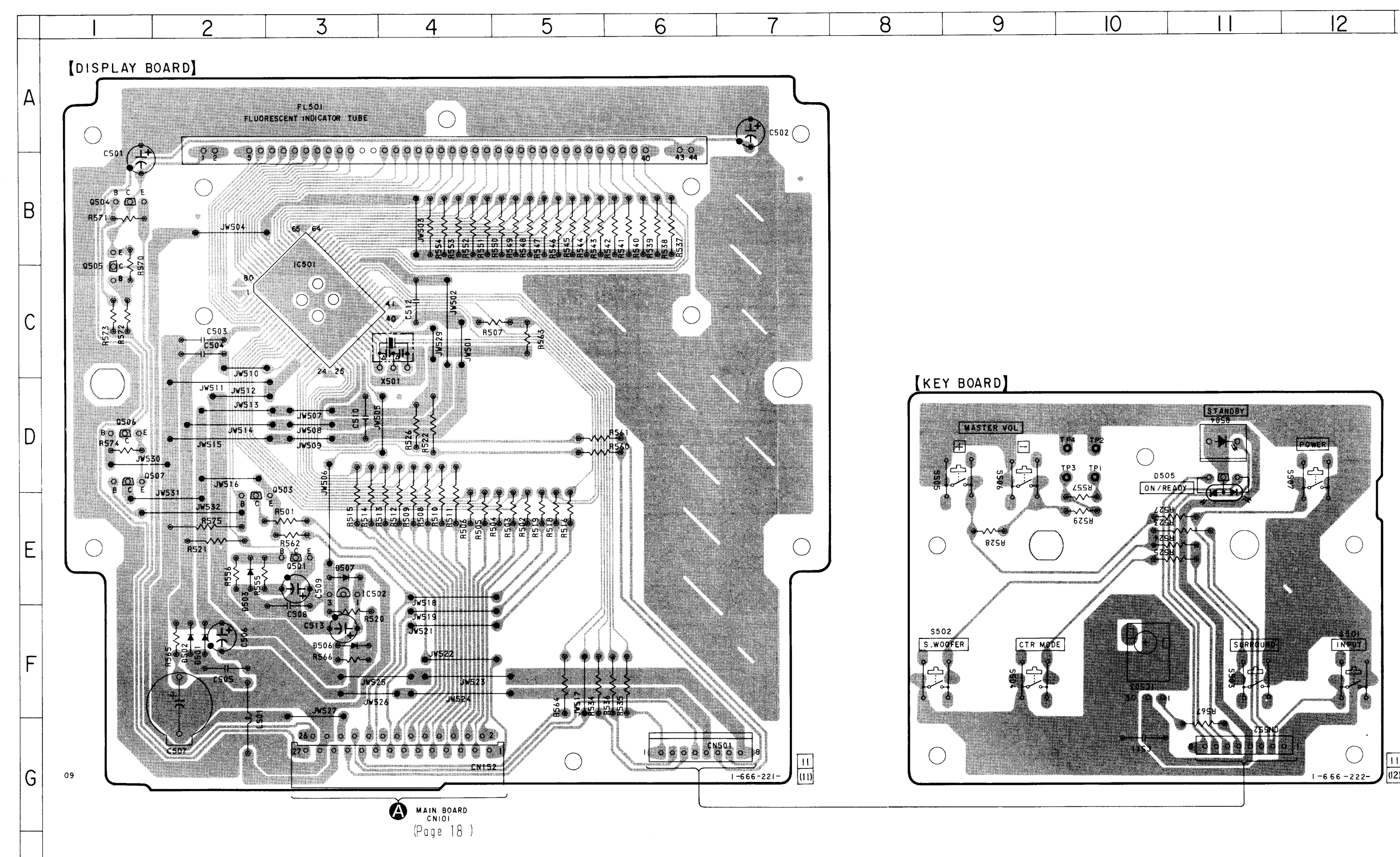


# SECTION 6 DIAGRAMS

## 6-1. CIRCUIT BOARDS LOCATION

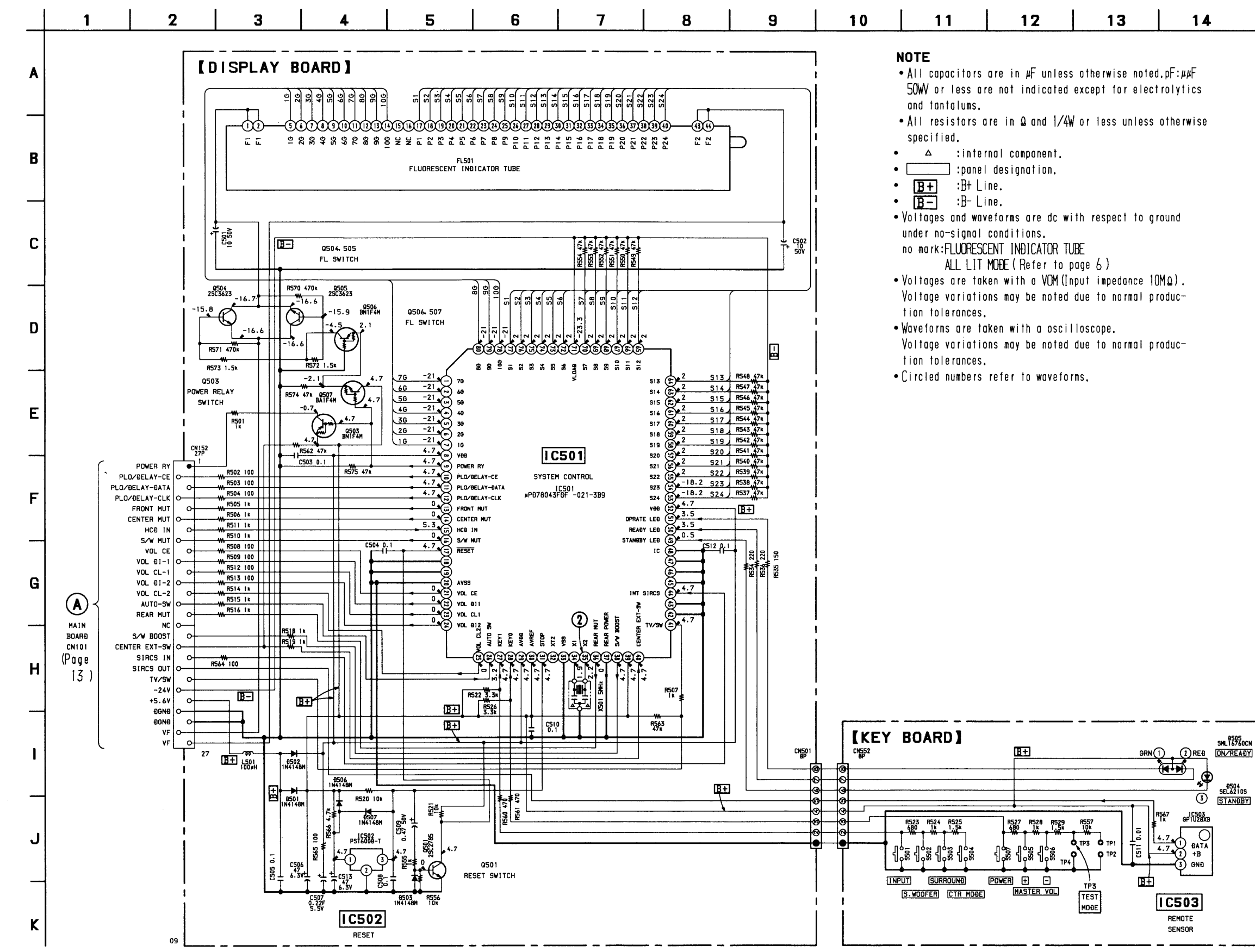


6-2. PRINTED WIRING BOARD — DISPLAY SECTION —  
• See page 8 for Circuit Boards Location.



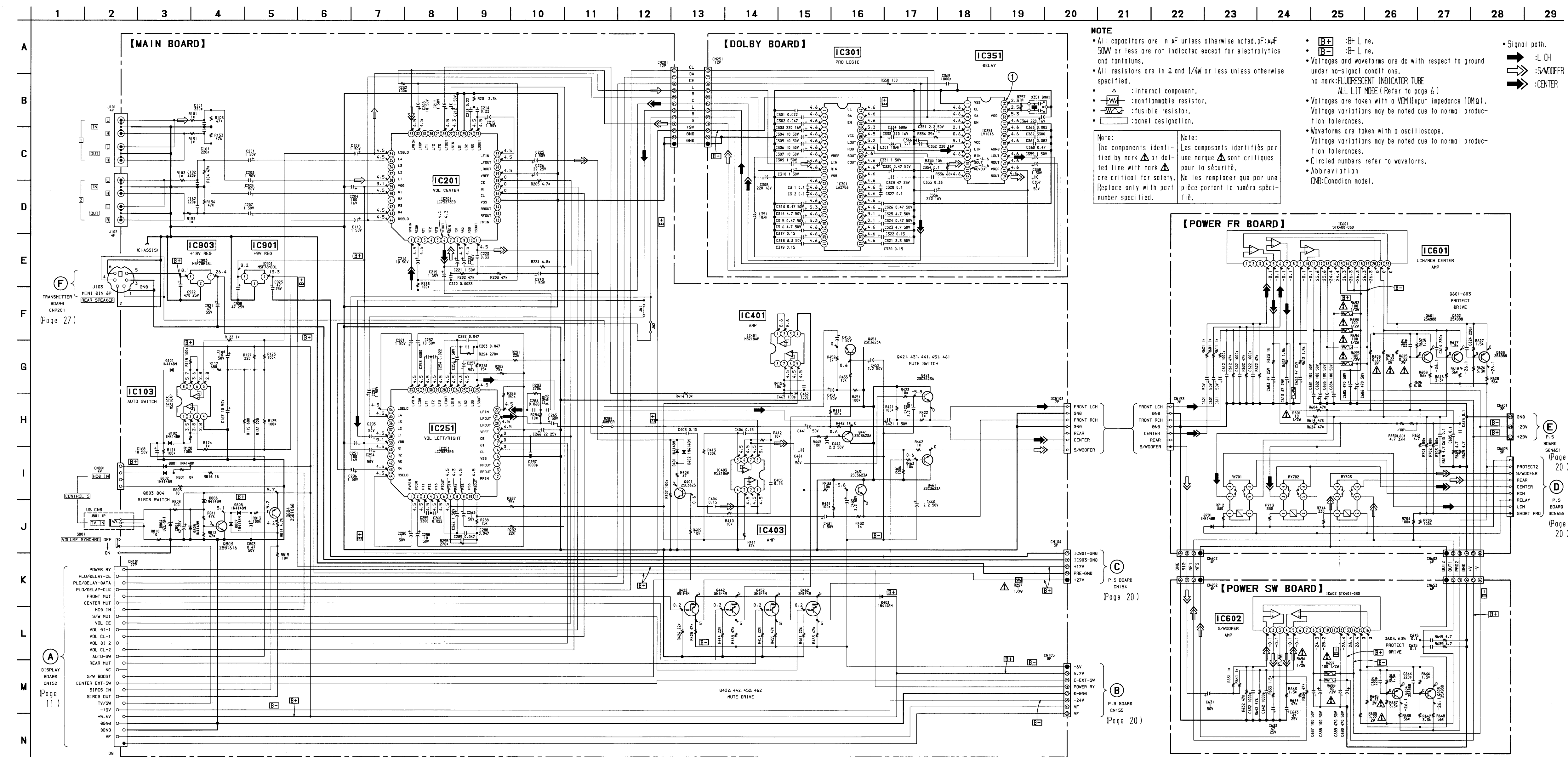
MAIN BOARD  
CN101  
(Page 18)

6-3. SCHEMATIC DIAGRAM — DISPLAY SECTION —  
• See page 36 for IC Pin Functions.



**NOTE**  
 • All capacitors are in  $\mu\text{F}$  unless otherwise noted; pF:  $\mu\text{pF}$   
 50W 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.  
 • △ : internal component.  
 • □ : panel designation.  
 • B+ : B+ Line.  
 • B- : B- Line.  
 • Voltages and waveforms are dc with respect to ground under no-signal conditions.  
 no mark: FLUORESCENT INDICATOR TUBE  
 ALL LIT MODE (Refer to page 6)  
 • Voltages are taken with a VOM (input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.  
 • Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.  
 • Circled numbers refer to waveforms.

6-4. SCHEMATIC DIAGRAM — MAIN SECTION —  
• See page 33 for IC Block Diagrams.



NOTE

- All capacitors are in  $\mu\text{F}$  unless otherwise noted,  $\mu\text{F}$ :  $\mu\text{F}$  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.
- $\square$ : internal component.
- $\square$ : nonflammable resistor.
- $\square$ : fusible resistor.
- $\square$ : panel designation.

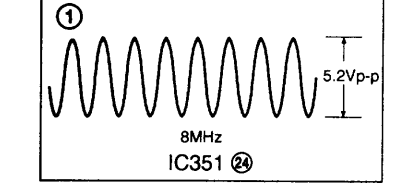
Note:  
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

- $\square$ : +B-Line.
- $\square$ : -B-Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation CND: Canadian model.

- Signal path.
- $\rightarrow$ : L CH
- $\rightarrow$ : S/WOOFER
- $\rightarrow$ : CENTER

• Waveform



(Page 27)

(Page 11)

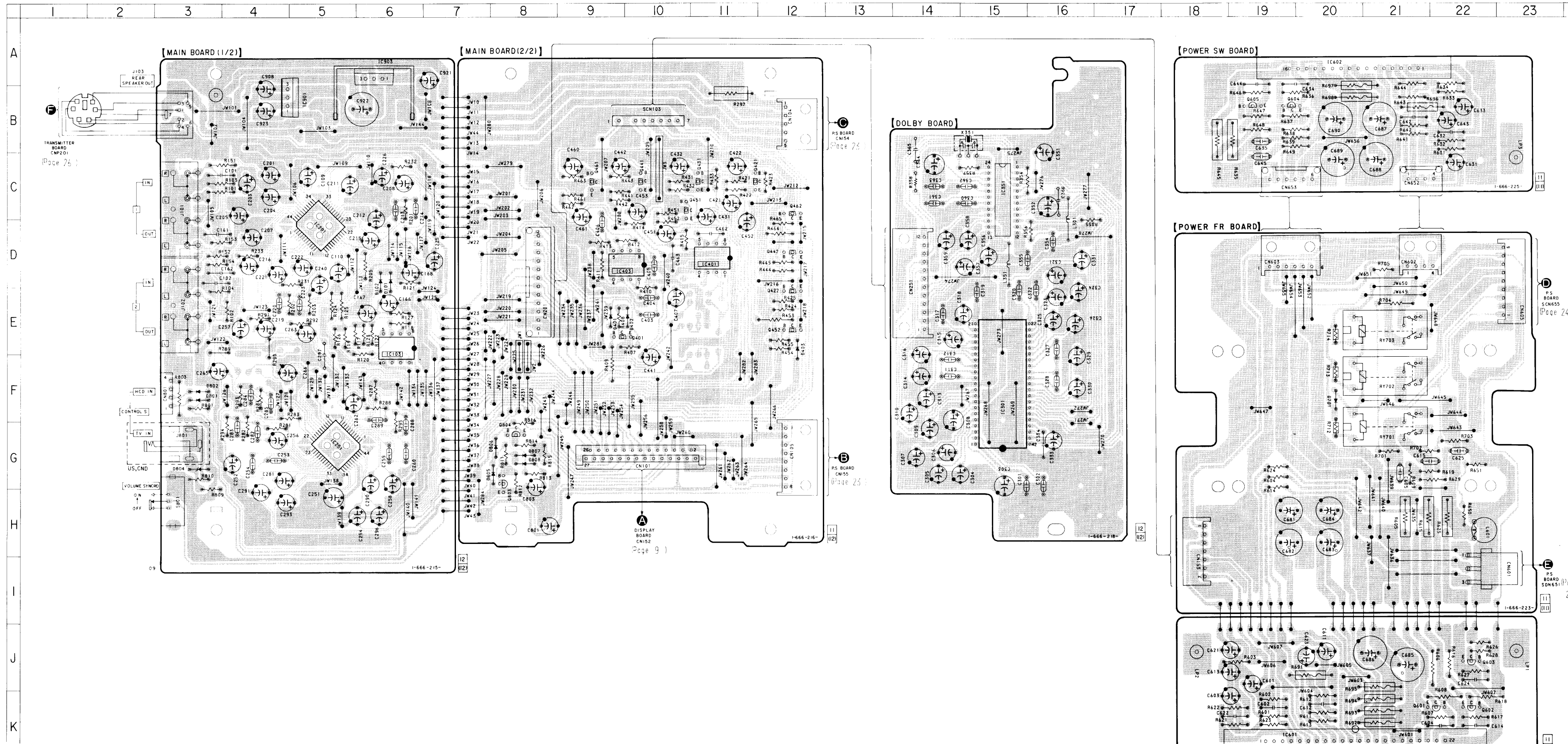
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6-5. PRINTED WIRING BOARD — MAIN SECTION —  
 • See page 8 for Circuit Boards Location.



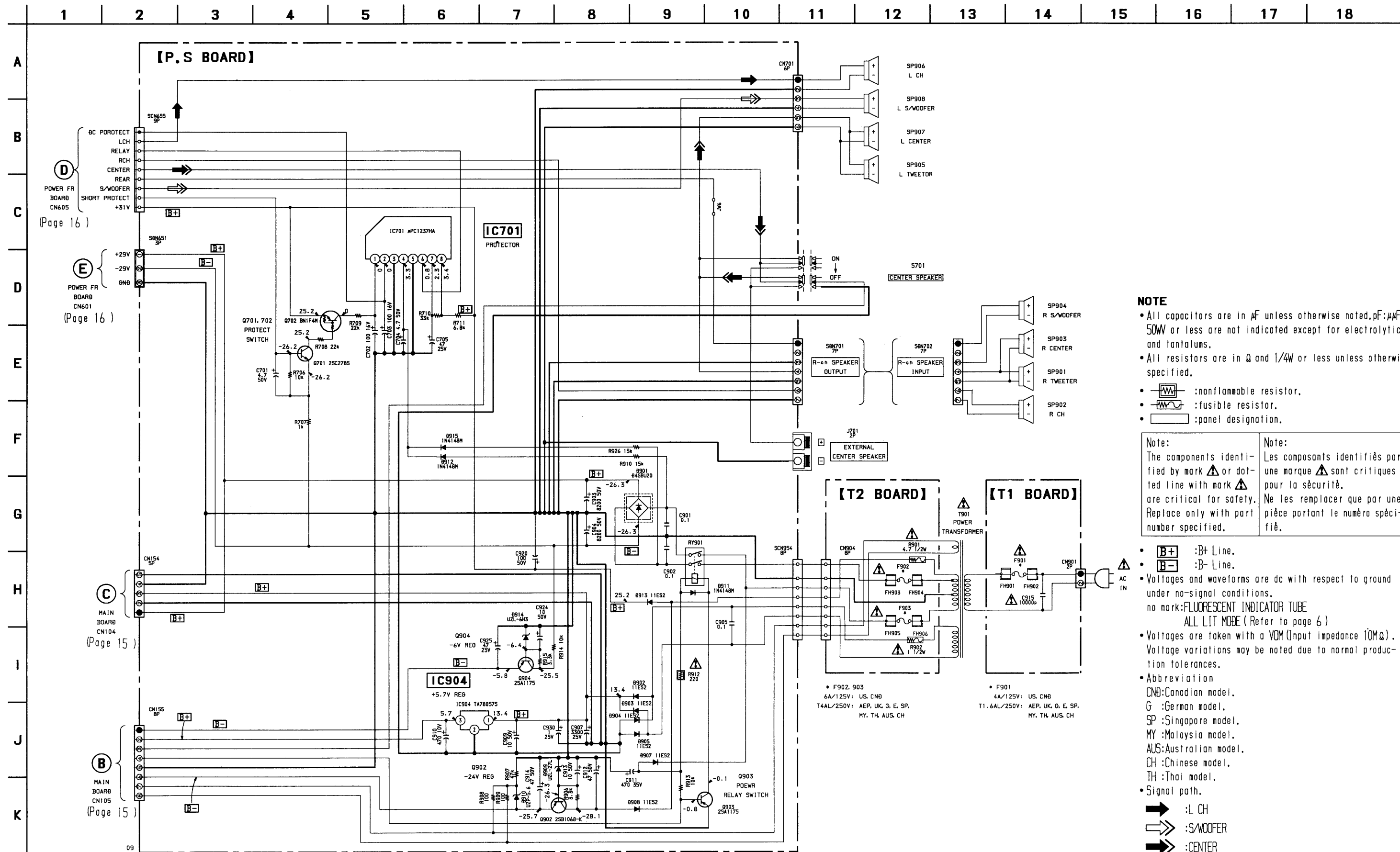
• Semiconductor Location

Ref. No.	Location
D101	D-6
D102	D-6
D401	E-9
D402	E-10
D403	E-12
D701	F-20
D801	F-3
D802	F-3
D804	G-3
D805	G-7
D806	G-7
D807	G-8
D808	G-8
IC103	E-6
IC201	D-5
IC251	G-5
IC301	F-15
IC351	C-15
IC401	D-11
IC403	D-9
IC601	K-19
IC602	A-20
IC901	B-5
IC903	A-6
Q401	E-10
Q421	C-11
Q422	E-12
Q431	C-11
Q441	C-10
Q442	D-12
Q451	C-10
Q452	E-12
Q461	C-9
Q462	C-12
Q601	K-21
Q602	K-22
Q603	J-22
Q604	B-19
Q605	B-19
Q803	G-8
Q804	G-8

**Note:**

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- Δ : internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation  
CND : Canadian model.

6-6. SCHEMATIC DIAGRAM — P. S SECTION —  
 • See page 34 for IC Block Diagrams.



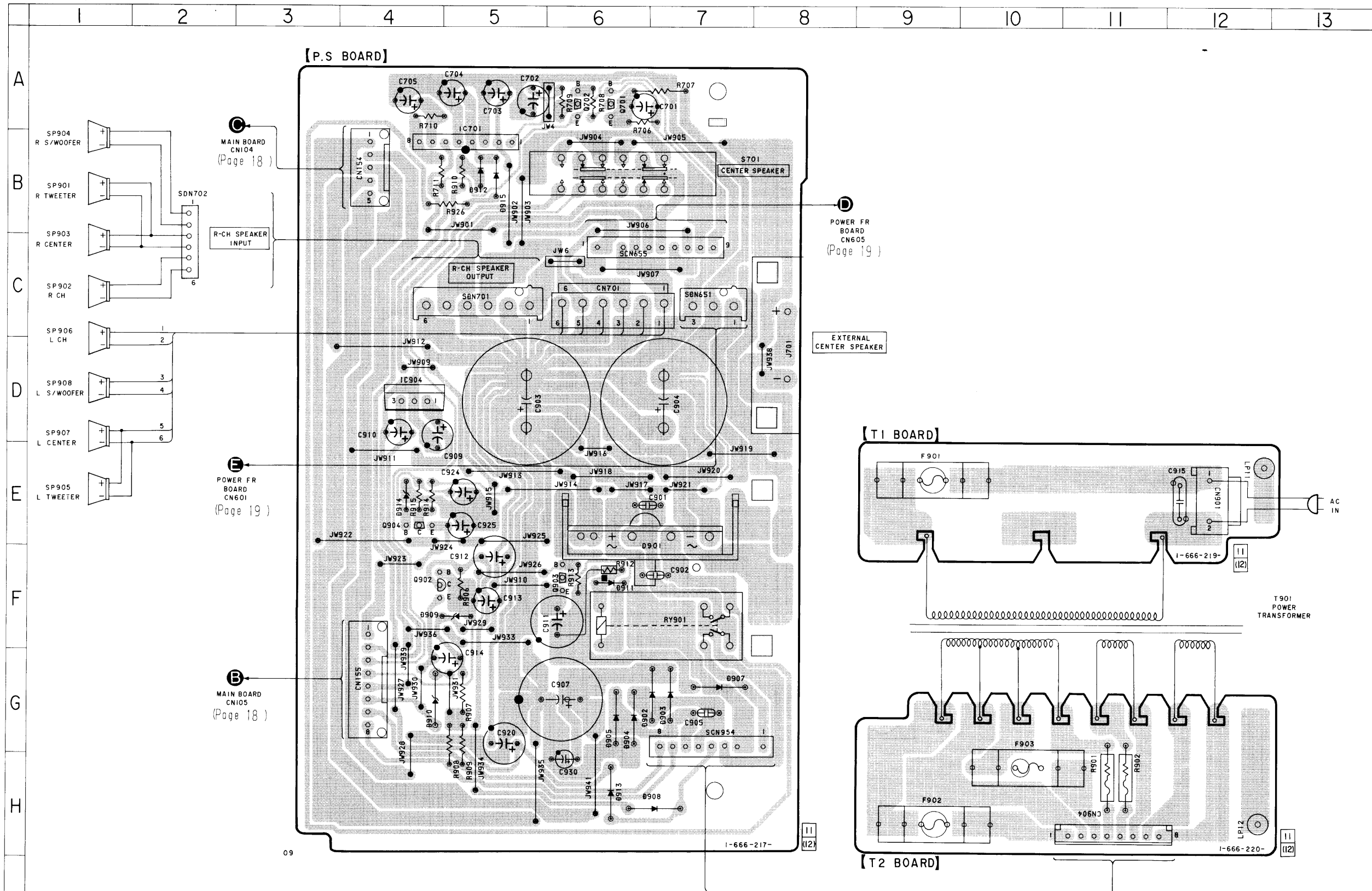
**NOTE**

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

<p><b>Note:</b> The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p>	<p><b>Note:</b> 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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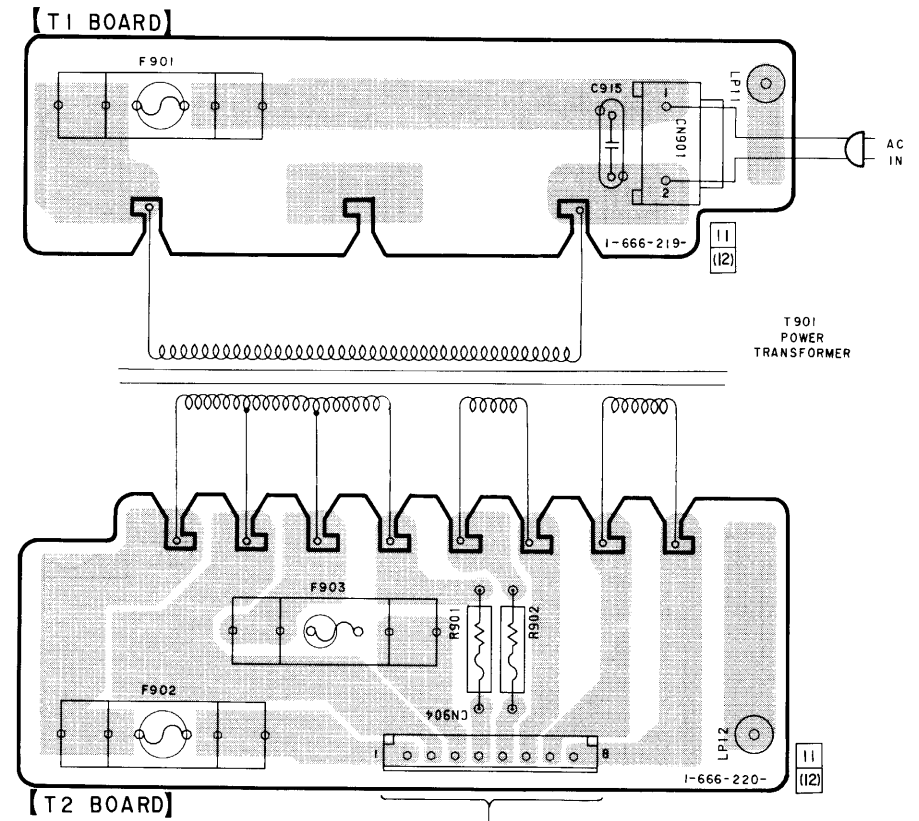
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions, no mark: FLUORESCENT INDICATOR TUBE ALL LIT MODE (Refer to page 6)
- Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation  
 CNB: Canadian model.  
 G : German model.  
 SP : Singapore model.  
 MY : Malaysia model.  
 AUS: Australian model.  
 CH : Chinese model.  
 TH : Thai model.
- Signal path.
- : L CH
- : S/WOOFER
- : CENTER

6-7. PRINTED WIRING BOARD — P. S SECTION —  
 • See page 8 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D901	E-6
D902	G-7
D903	G-7
D904	G-6
D905	G-6
D907	G-7
D908	H-7
D909	F-4
D910	G-4
D911	F-6
D912	B-5
D913	H-6
D914	E-4
D915	B-5
IC701	B-5
IC904	D-4
Q701	A-6
Q702	A-6
Q902	F-4
Q903	F-6
Q904	E-4



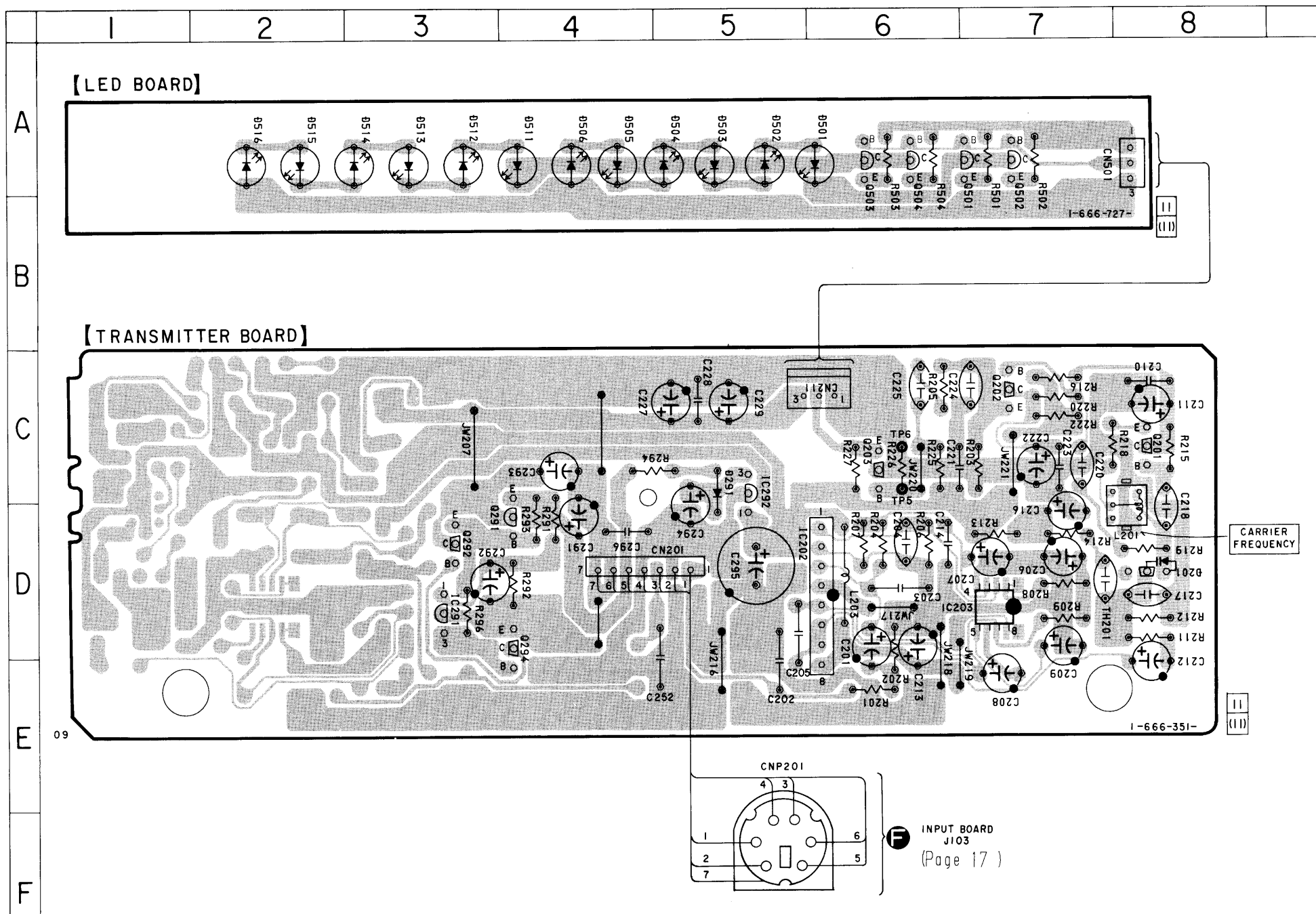
**Note:**

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- ▨ : Pattern from the side which enable seeing.

6-8. PRINTED WIRING BOARD — TRANSMITTER SECTION —

• See page 8 for Circuit Boards Location.

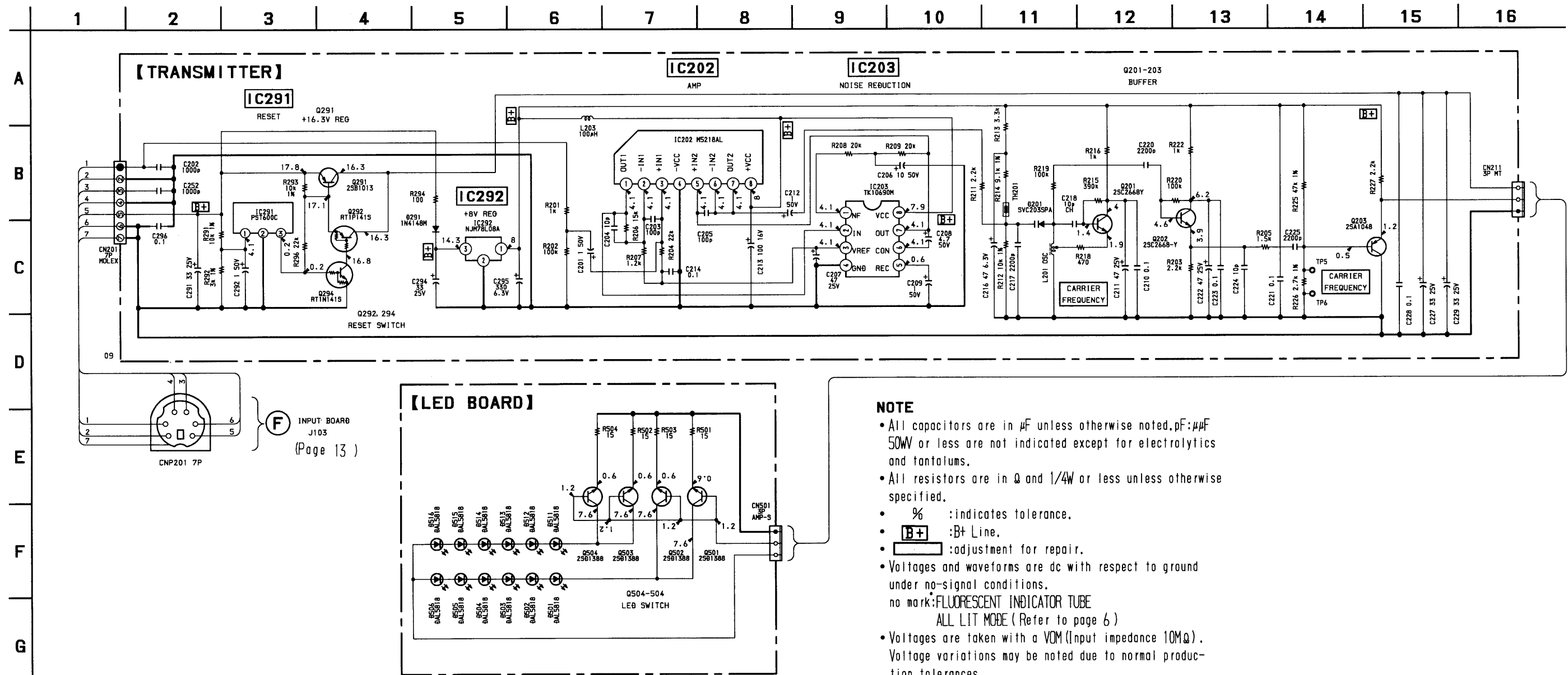
• Semiconductor Location



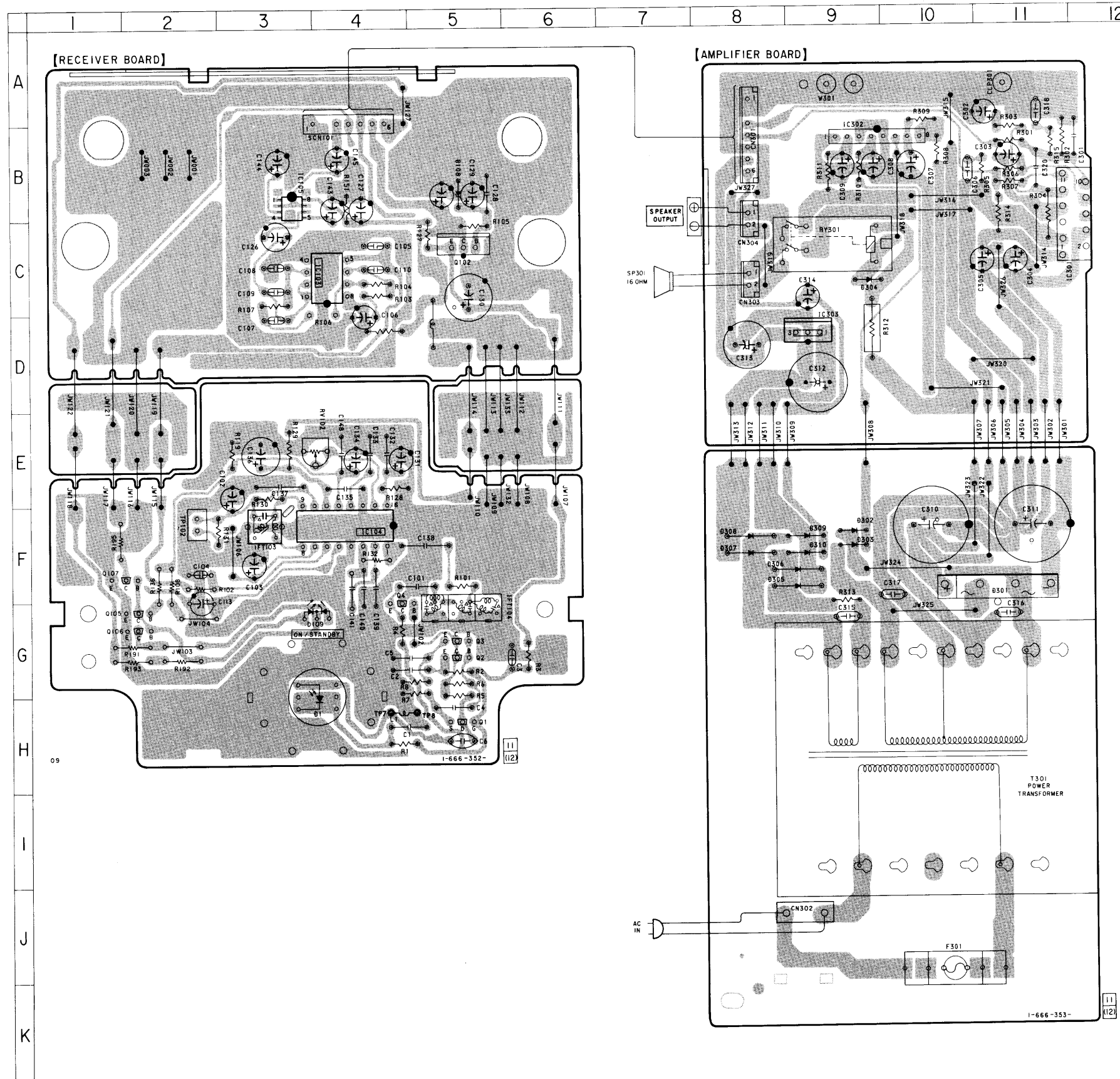
Ref. No.	Location
D201	D-8
D291	C-5
D501	A-6
D502	A-5
D503	A-5
D504	A-5
D505	A-4
D506	A-4
D511	A-4
D512	A-3
D513	A-3
D514	A-3
D515	A-2
D516	A-2
IC202	D-6
IC203	D-7
IC291	D-3
IC292	C-5
Q201	C-8
Q202	C-7
Q203	C-6
Q291	D-4
Q292	D-3
Q294	D-4
Q501	A-7
Q502	A-7
Q503	A-6
Q504	A-6

**Note:**  
 • ○ : parts extracted from the component side.  
 • — : parts extracted from the conductor side.  
 • [Pattern] : Pattern from the side which enable seeing.

6-9. SCHEMATIC DIAGRAM — TRANSMITTER SECTION —  
 • See page 35 for IC Block Diagrams.



6-10. PRINTED WIRING BOARD — RECEIVER SECTION —  
 • See page 8 for Circuit Boards Location.



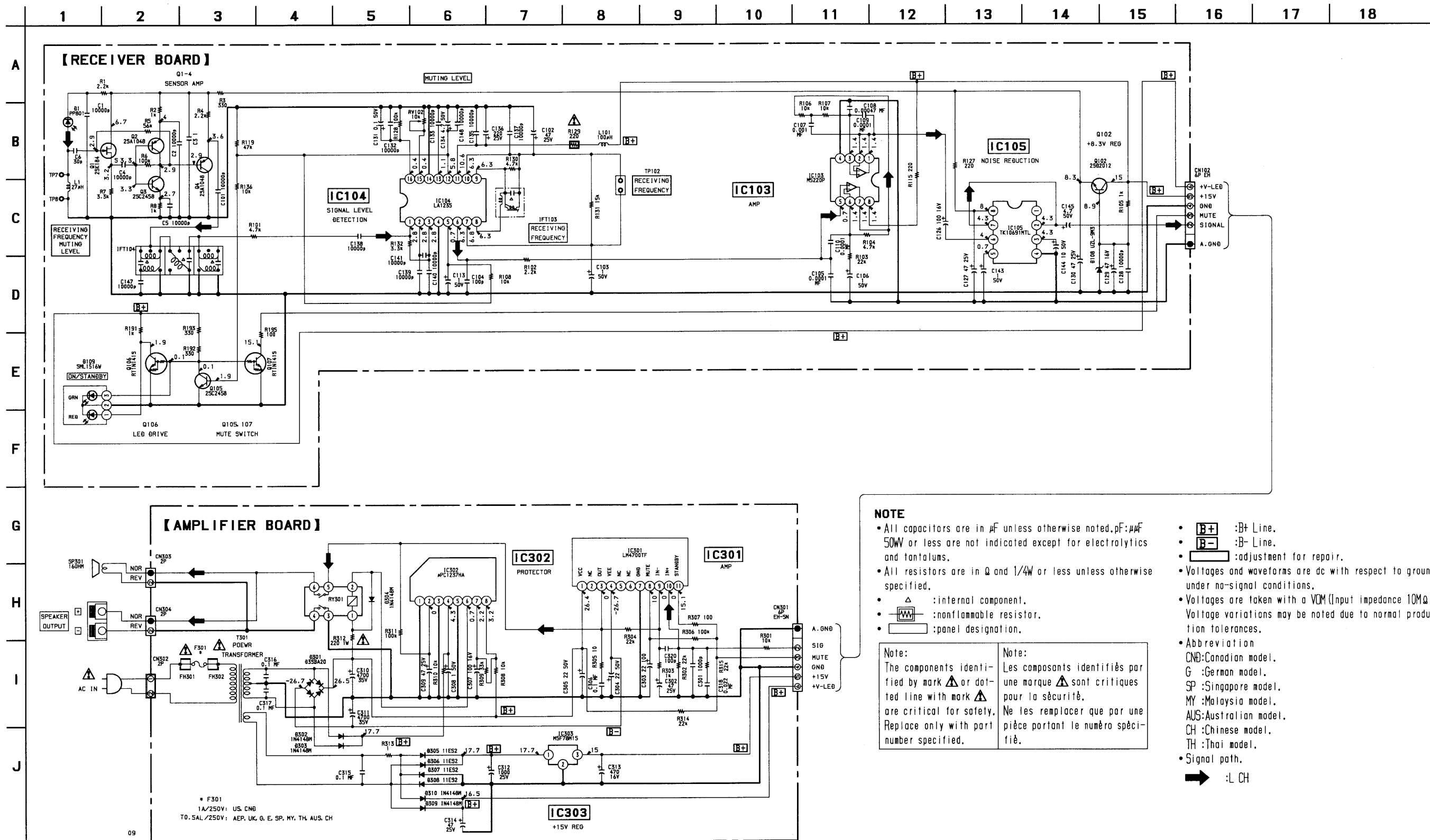
• Semiconductor Location

Ref. No.	Location
D1	H-3
D108	B-5
D109	G-3
D301	F-11
D302	F-9
D303	F-9
D304	C-9
D305	F-9
D306	F-9
D307	F-8
D308	F-8
D309	F-9
D310	F-9
IC103	C-4
IC104	F-4
IC105	B-3
IC301	C-12
IC302	B-9
Q1	H-5
Q2	G-5
Q3	G-5
Q4	F-4
Q102	C-5
Q105	F-2
Q106	G-2
Q107	F-2

Note:

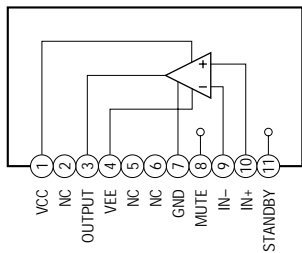
- ○ : parts extracted from the component side.
- — : parts extracted from the conductor side.
- Δ : internal component.
- [Pattern] : Pattern from the side which enable seeing.

6-11. SCHEMATIC DIAGRAM — RECEIVER SECTION —  
 • See page 35 for IC Block Diagrams.

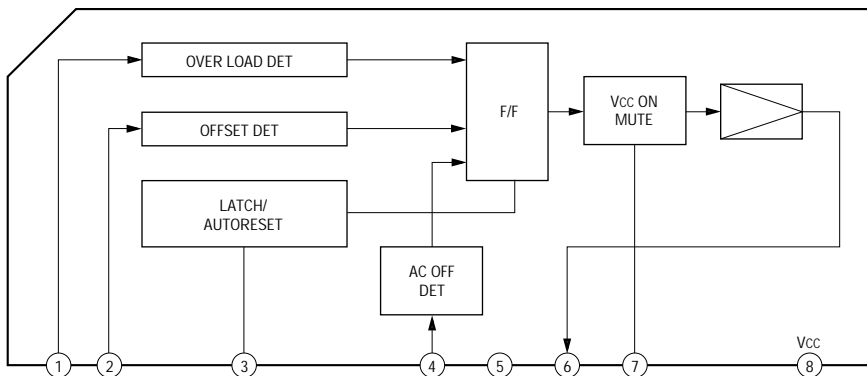




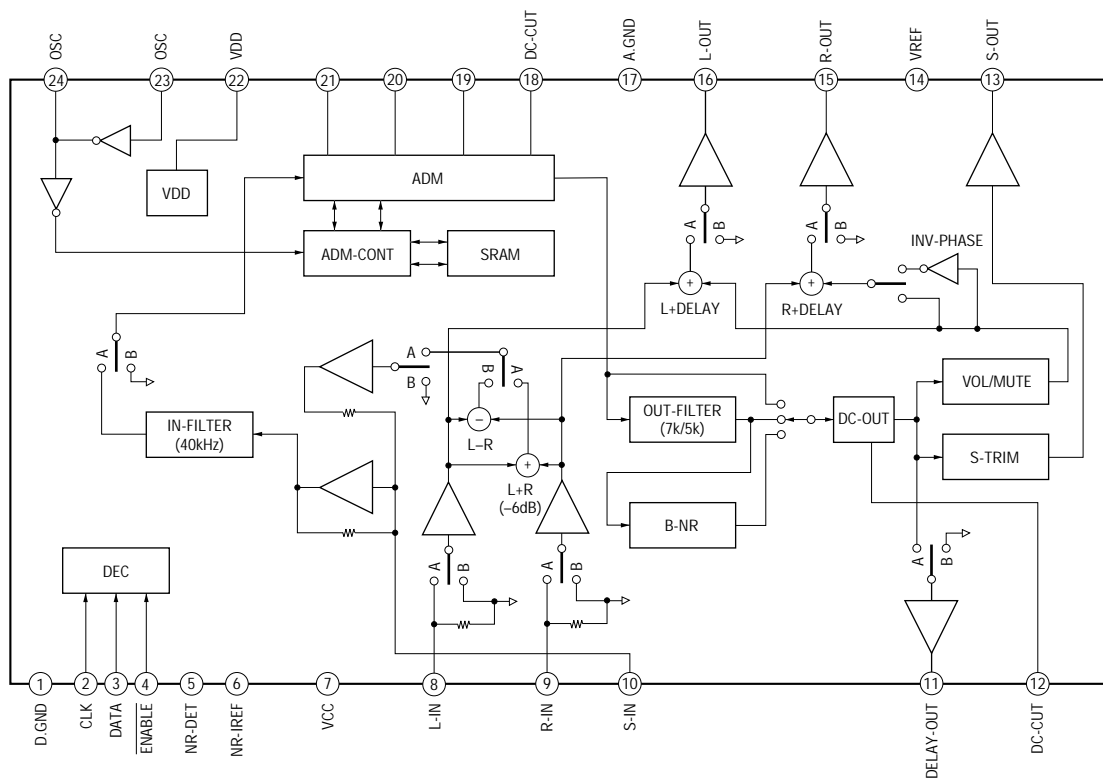
**IC301 LM4700TF**



**IC302, 701  $\mu$ PC1237HA**



**IC351 LV1016**



## 6-13. IC PIN FUNCTIONS

### • IC501 SYSTEM CONTROL (uPD78043FGF-012-3B9)

Pin No.	Pin Name	I/O	Function
1-7	7G-1G	O	FL gride signal output
8	VDD	–	Power supply (+4.7V)
9	POWER RY	O	Power relay output
10	PLO/DELAY-CE	O	Dolby IC enable output
11	PLO/DELAY-DATA	O	Dolby IC data output
12	PLO/DELAY-CLK	O	Dolby IC clock output
13	FRONT MUT	O	Front speaker mute output
14	CENTER MUT	O	Senter speaker mute output
15	HCD IN	I	HCD connector input
16	S/W MUT	O	Super woofer mute output
17	$\overline{\text{RESET}}$	I	Reset signal input
18	—	–	Connected to ground
19	—	–	Connected to ground
20	AVSS	–	Ground
21	VOL CE	O	Volume IC enable output
22	VOL DI1	O	Volume IC data output 2
23	VOL CL1	O	Volume IC clock output 2
24	VOL DI2	O	Volume IC data output 1
25	VOL CL2	O	Volume IC clock output 1
26	AUTO SW	I	Line input level
27	KEY 1	I	AD input for key
28	KEY 0	I	AD input for key
29	AVDD	–	Power supply (+4.7V)
30	AVREF	I	Analog reference voltage input
31	STOP	I	STOP input
32	XT2	–	Not used
33	VSS	–	Ground
34	X1	I	X'tal (5MHz)
35	X2	O	X'tal (5MHz)
36	REAR MUT	O	Rear speaker mute
37	REAR POWER	O	Connected to ground
38	S/W BOOST	O	Super woofer boost
39	—	–	Power supply (+4.7V)
40	CENTER EXT-SW	I	External center speaker switch input
41	TV/SW	I	TV SIRCS enable switch input
42	—	–	Connected to ground
43	—	–	Connected to ground
44	INT SIRCS	I	SIRCS input
45	—	–	Connected to ground
46	—	–	Connected to ground
47	—	–	Connected to ground
48	IC	–	Connected to ground
49	STANDBY LED	O	LED output
50	READY LED	O	LED output
51	OPRATE LED	O	LED output
52	VDD	–	Power supply (+4.7V)
53-70	S24-S7	O	FL segment signal output
71	VLOAD	–	Power supply (–25V) for FL segment signal output
72-77	S6-S1	O	FL segment signal output
78-80	10G-8G	O	FL gride signal output

• Abbreviation

FL : Fluorescent indicator tube

## SECTION 7 EXPLODED VIEWS

**NOTE:**

- 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.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

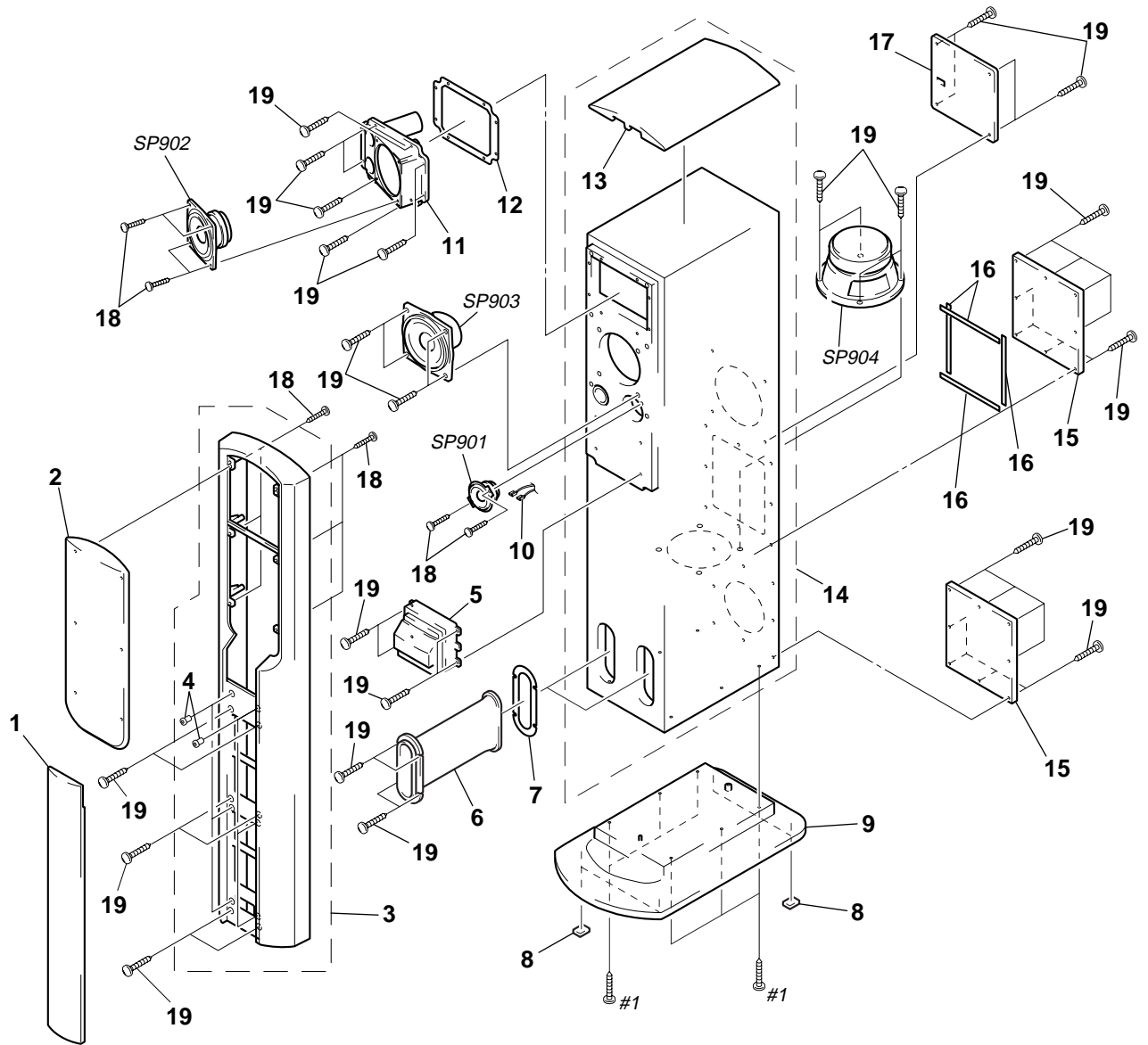
- Abbreviation  
 CND : Canadian model  
 G : German model  
 SP : Singapore model  
 MY : Malaysia model  
 AUS : Australian model  
 CH : Chinese model  
 TH : Thai model

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

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.

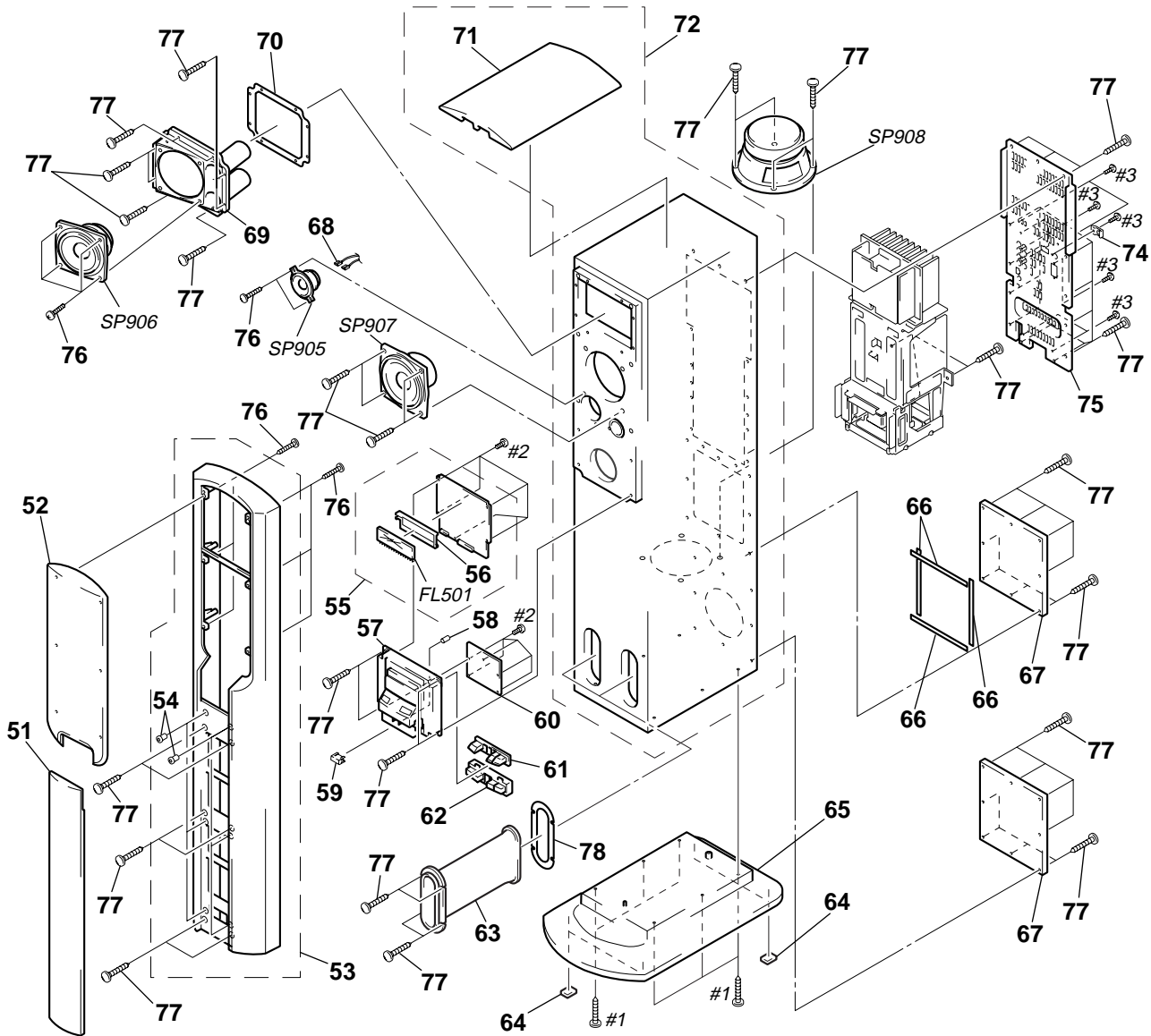
Ne les remplacer que par une pièce portant le numéro spécifié.

### 7-1. FRONT SPEAKER SYSTEM (RIGHT) SECTION



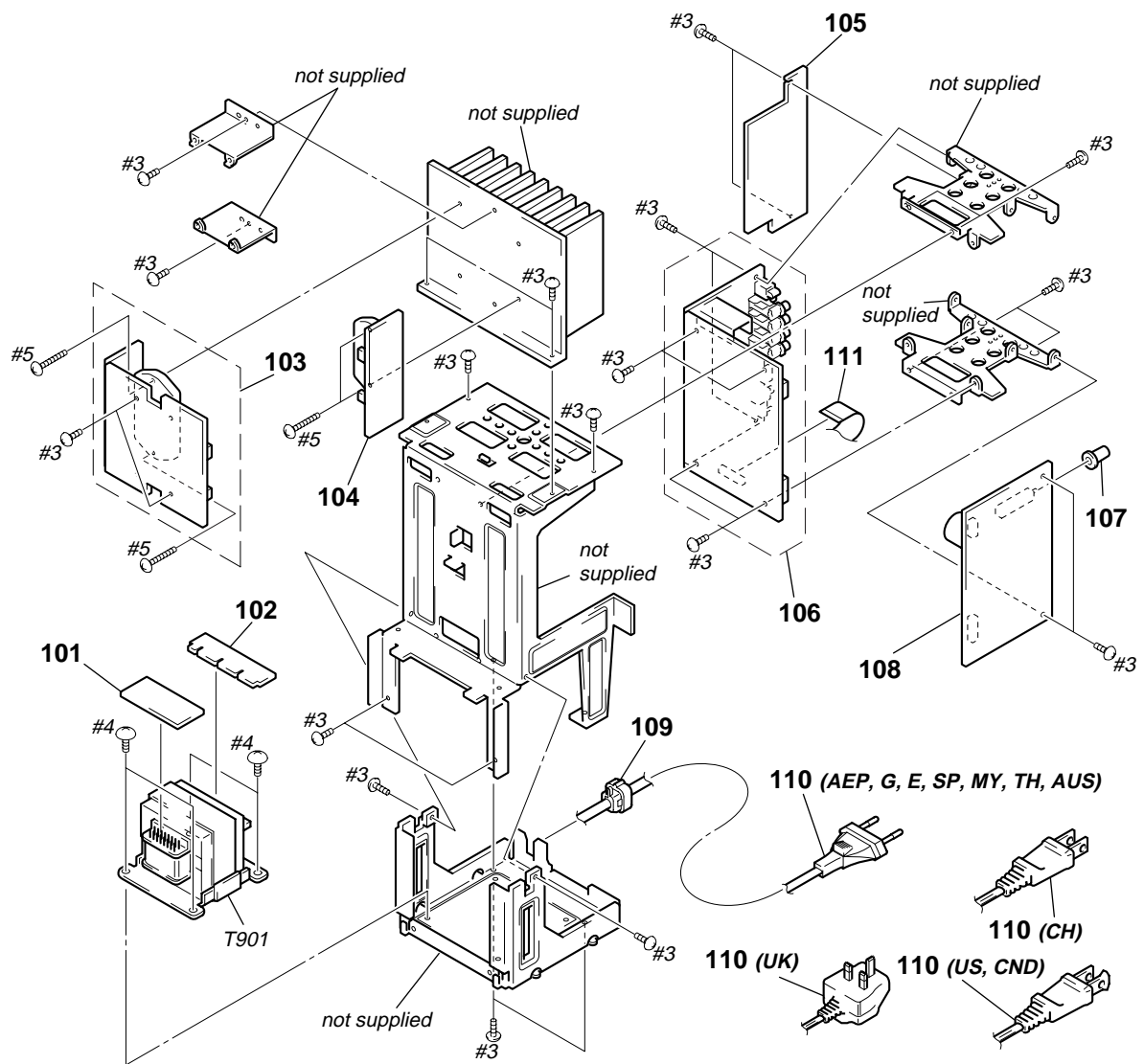
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-991-264-01	PANEL, ORNAMENTAL		* 13	4-991-262-01	PANEL, TOP	
2	X-4948-548-1	FRAME (R) ASSY, GRILLE		* 14	X-4949-205-1	CABINET (R) ASSY, SPEAKER (EXCEPT G)	
3	X-4948-546-1	PANEL ASSY, FRONT		* 14	X-4949-207-1	CABINET (R) ASSY, SPEAKER (G)	
4	4-951-733-01	CATCHER		* 15	4-991-285-01	COVER (SW)	
5	X-4948-709-1	PANEL (R) ASSY		* 16	4-992-597-01	PACKING (SW)	
* 6	4-991-267-01	DUCT (C)		* 17	4-991-282-01	PANEL (R), BACK	
* 7	4-992-596-01	PACKING (C)		18	4-874-614-61	SCREW +BVTP 3.5X16	
8	4-967-287-01	CUSHION (A)		19	4-914-430-11	SCREW (4X20), TAPPING	
9	4-991-263-01	BASE		SP901	1-505-654-11	SPEAKER (5cm)	
10	1-782-666-11	CORD		SP902	1-505-655-11	SPEAKER (10cm)	
* 11	4-975-267-01	FRAME, SPEAKER		SP903	1-505-656-11	SPEAKER (12cm)	
* 12	4-975-307-01	PACKING (SPEAKER FRAME)		SP904	1-505-657-11	SPEAKER (16cm)	

## 7-2. FRONT SPEAKER SYSTEM (LEFT) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-991-264-01	PANEL, ORNAMENTAL		* 70	4-975-307-01	PACKING (SPEAKER FRAME)	
52	X-4948-547-1	FRAME (L) ASSY, GRILLE		* 71	4-991-262-01	PANEL, TOP	
53	X-4948-546-1	PANEL ASSY, FRONT		* 72	X-4949-204-1	CABINET (L) ASSY, SPEAKER (EXCEPT G)	
54	4-951-733-01	CATCHER		* 72	X-4949-206-1	CABINET (L) ASSY, SPEAKER (G)	
* 55	A-4403-006-A	DISPLAY BOARD, COMPLETE		* 73	4-991-282-01	PANEL (R), BACK	
* 56	4-991-276-01	HOLDER, FL TUBE		* 74	4-976-741-01	COVER, BUTTON	
57	X-4948-550-1	PANEL ASSY, DISPLAY		* 75	4-991-281-01	PANEL (L), BACK (US)	
58	4-991-284-01	REFLECTOR		* 75	4-991-281-11	PANEL (L), BACK (CND)	
59	4-991-275-01	WINDOW (IR)		* 75	4-991-281-21	PANEL (L), BACK (AEP,UK,G,E,SP,MY,TH,AUS)	
* 60	1-666-222-11	KEY BOARD		* 75	4-991-281-31	PANEL (L), BACK (CH)	
61	4-991-271-01	BUTTON (A)		76	4-874-614-61	SCREW +BVTP 3.5X16	
62	4-991-272-01	BUTTON (B)		77	4-914-430-11	SCREW (4X20), TAPPING	
* 63	4-991-267-01	DUCT (C)		* 78	4-992-596-01	PACKING (C)	
64	4-967-287-01	CUSHION (A)		FL501	1-517-673-11	INDICATOR TUBE, FLUORESCENT	
65	4-991-263-01	BASE		SP905	1-505-654-11	SPEAKER (5cm)	
* 66	4-992-597-01	PACKING (SW)		SP906	1-505-655-11	SPEAKER (10cm)	
* 67	4-991-285-01	COVER (SW)		SP907	1-505-656-11	SPEAKER (12cm)	
68	1-782-666-11	CORD		SP908	1-505-657-11	SPEAKER (16cm)	
* 69	4-975-267-01	FRAME, SPEAKER					

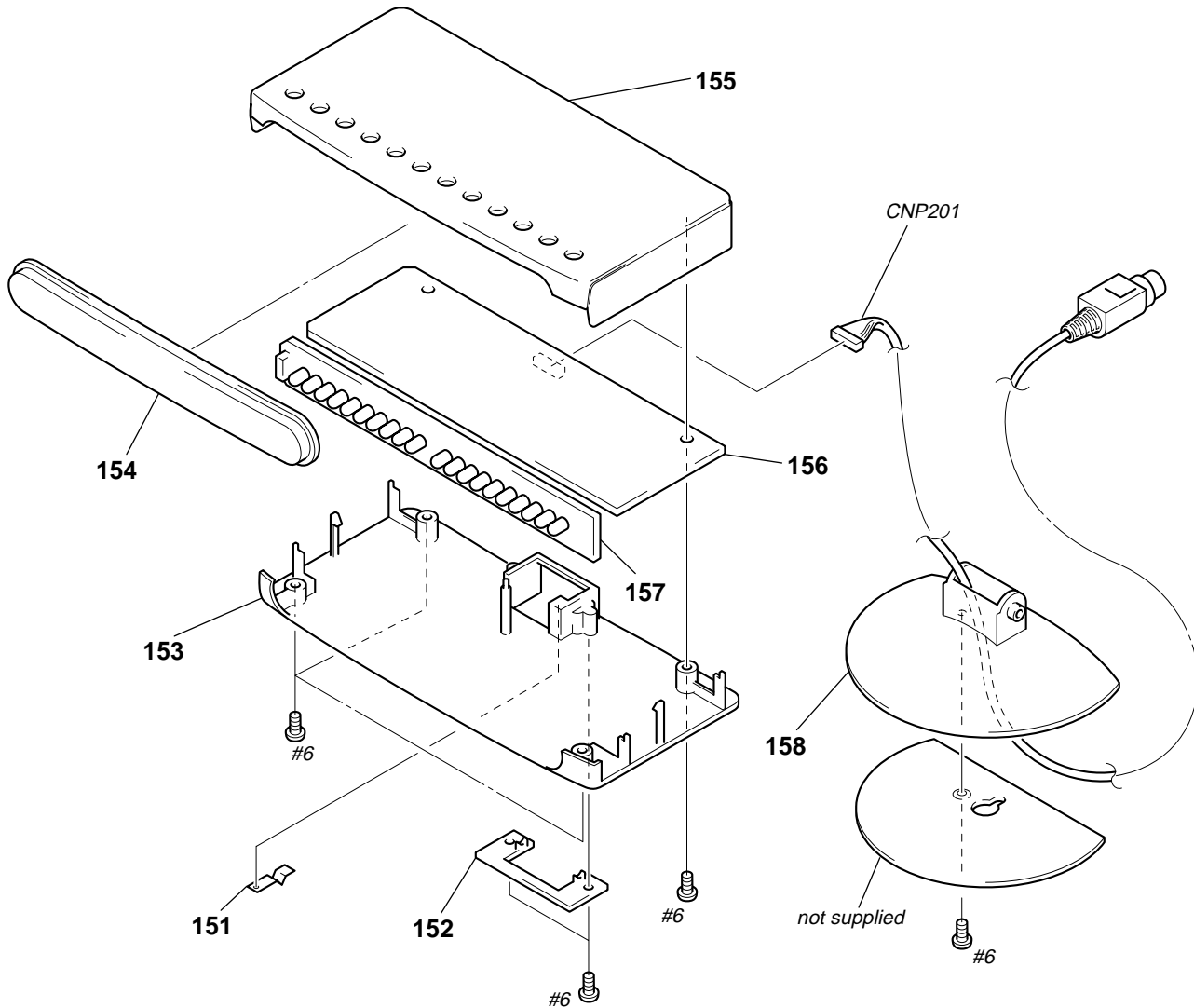
### 7-3. AMPLIFIER SECTION



<p>The components identified by mark <math>\triangle</math> or dotted line with mark <math>\triangle</math> are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque <math>\triangle</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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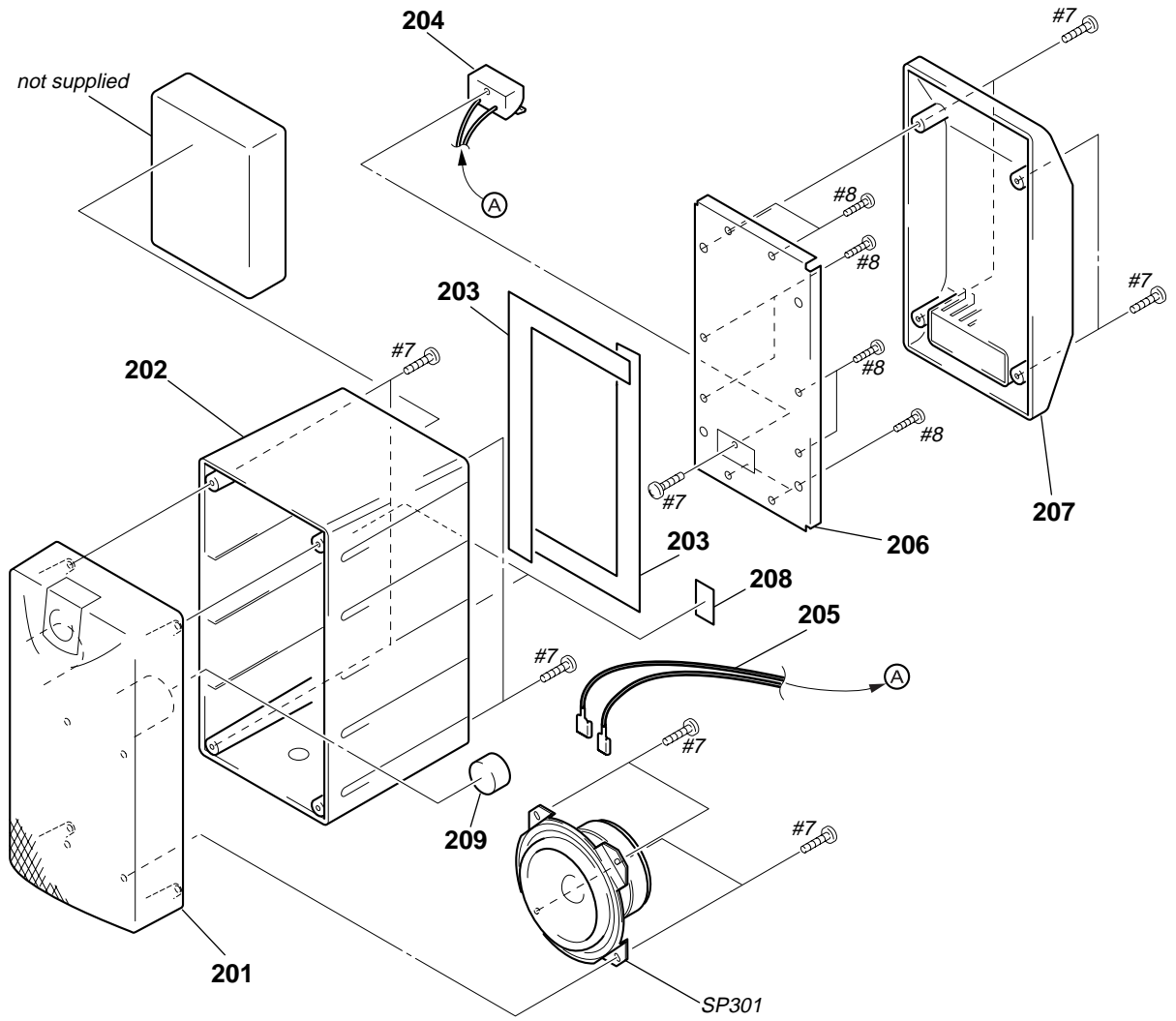
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	1-666-220-11	T2 BOARD		* 109	3-703-244-00	BUSHING (2104), CORD	
* 102	1-666-219-11	T1 BOARD		$\triangle$ 110	1-575-042-21	CORD, POWER (US,CND)	
* 103	A-4403-007-A	POWER FR BOARD, COMPLETE		$\triangle$ 110	1-575-651-21	CORD, POWER (AEP,G,E,SP,MY,TH,AUS)	
* 104	A-4403-008-A	POWER SW BOARD, COMPLETE		$\triangle$ 110	1-751-529-11	CORD, POWER (UK)	
* 105	A-4403-001-A	DOLBY BOARD, COMPLETE		$\triangle$ 110	1-782-510-11	CORD, POWER (CH)	
* 106	A-4403-000-A	MAIN BOARD, COMPLETE (US,CND)		111	1-773-274-11	WIRE (FLAT TYPE) (27 CORE)	
* 106	A-4403-009-A	MAIN BOARD, COMPLETE (AEP,UK,G,E,SP,MY,TH,AUS,CH)		$\triangle$ T901	1-431-429-11	TRANSFORMER, POWER (US,CND)	
* 107	4-975-298-01	BUTTON (PUSH)		$\triangle$ T901	1-431-438-11	TRANSFORMER, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
* 108	A-4403-002-A	P.S BOARD, COMPLETE					

## 7-4. TRANSMITTER SECTION (EVT-VA57)



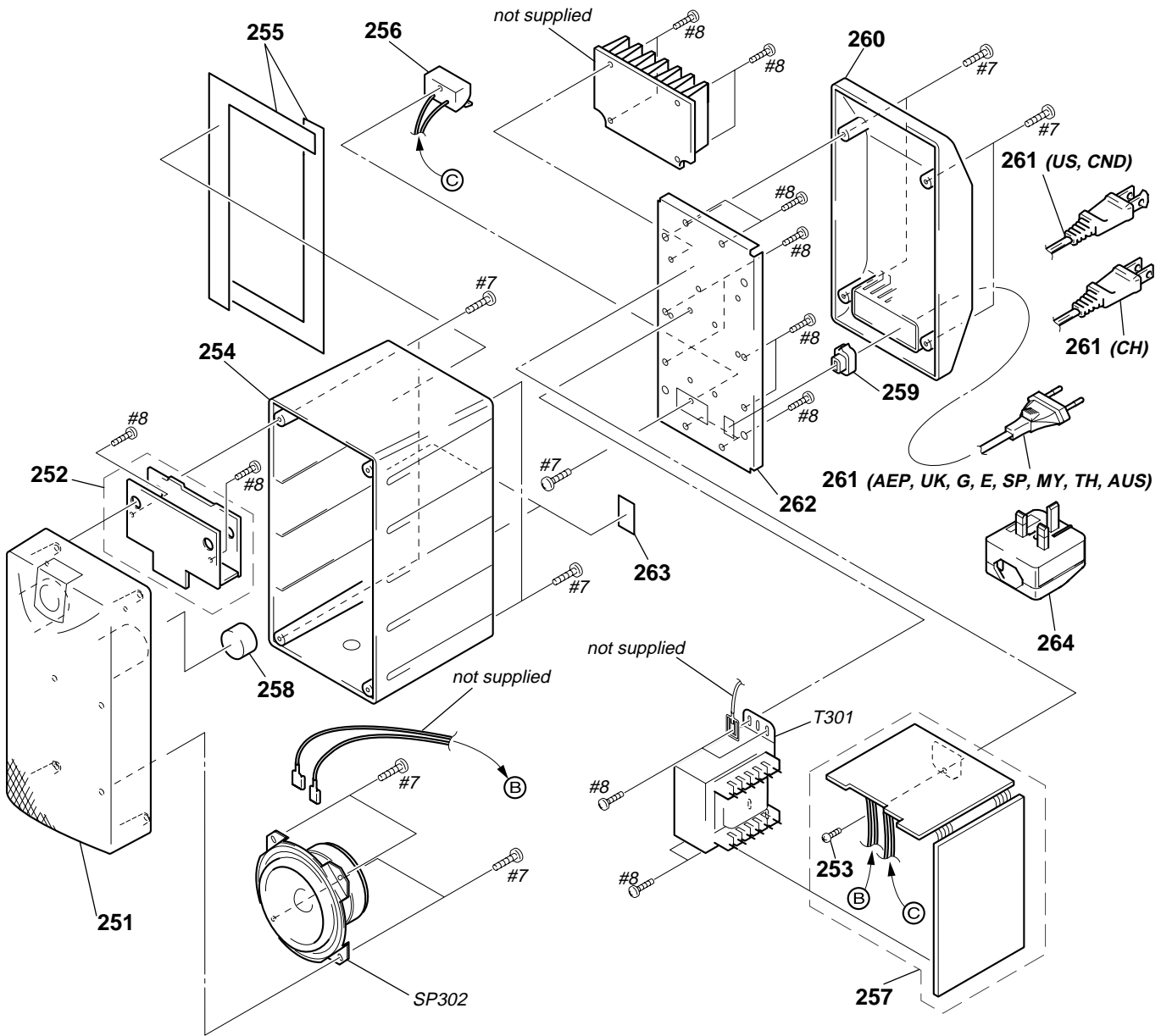
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-991-626-01	SPRING, CLICK		* 156	A-4403-191-A	TRANSMITTER BOARD, COMPLETE	
152	4-991-621-01	HOLDER, STAND		* 157	1-666-727-11	LED BOARD	
153	4-991-624-01	CASE (BOTTOM)		158	4-991-622-01	STAND	
154	4-991-627-01	COVER (FRONT)		CNP201	1-782-270-11	CORD, CONNECTION (TRANSMITTER 3.5m)	
155	4-991-623-11	CASE (TOP)					

**7-5. REAR SPEAKER (PASSIVE) SECTION (SA-IF57)**



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-4948-573-1	PANEL ASSY, FRONT		* 206	4-991-614-21	PANEL, REAR	
* 202	X-4948-572-1	CABINET ASSY, SPEAKER		* 207	4-991-617-01	CABINET (REAR)	
203	4-991-610-01	PACKING (CABINET)		* 208	3-846-312-01	SPACER	
204	1-537-775-11	TERMINAL BOARD		* 209	4-994-861-01	PLUG, DUCT	
205	1-775-758-11	LEAD (WITH CONNECTOR)		SP301	1-505-643-11	SPEAKER (10cm)	

## 7-6. REAR SPEAKER (ACTIVE) SECTION (SA-IF57)



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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	X-4948-571-1	PANEL ASSY, FRONT		* 260	4-991-617-01	CABINET (REAR)	
* 252	A-4398-847-A	RECEIVER BOARD, COMPLETE		$\triangle$ 261	1-782-510-11	CORD, POWER (CH)	
253	3-905-609-01	SCREW (TRANSISTOR)		$\triangle$ 261	1-782-603-11	CORD, POWER (AEP,UK,G,E,SP,MY,TH,AUS)	
* 254	X-4948-572-1	CABINET ASSY, SPEAKER		$\triangle$ 261	1-782-604-11	CORD, POWER (US,CND)	
255	4-991-610-01	PACKING (CABINET)		* 262	4-991-614-11	PANEL, REAR	
256	1-537-775-11	TERMINAL BOARD		263	3-846-312-01	SPACER	
* 257	A-4398-841-A	AMPLIFIER BOARD, COMPLETE		$\triangle$ 264	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
* 258	4-994-861-01	PLUG, DUCT		SP302	1-505-643-11	SPEAKER (10cm)	
259	3-703-244-00	BUSHING (2104), CORD (AEP,UK,G,E,SP,MY,TH,AUS,CH)		$\triangle$ T301	1-431-342-11	TRANSFORMER, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
259	3-703-571-00	BUSHING (S) 4516, CORD (US,CND)		$\triangle$ T301	1-431-343-11	TRANSFORMER, POWER (US,CND)	

# SECTION 8 ELECTRICAL PARTS LIST

AMPLIFIER

DISPLAY

**Note:**

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 name.

- 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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS  
uF :  $\mu$ F
- RESISTORS  
All resistors are in ohms  
METAL: Metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F : nonflammable

- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$  A..., uPA...:  $\mu$  PA..., uPB...:  $\mu$  PB...,  
uPC...:  $\mu$  PC..., uPD...:  $\mu$  PD...
- COILS  
uH :  $\mu$ H
- Abbreviation  
CND : Canadian model  
G : German model  
SP : Singapore model  
MY : Malaysia model  
AUS : Australian model  
CH : Chinese model  
TH : Thai model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4398-841-A	AMPLIFIER BOARD, COMPLETE *****				< FUSE HOLDER >	
		< CAPACITOR >		FH301	1-533-293-11	FUSE HOLDER	
				FH302	1-533-293-11	FUSE HOLDER	
						< IC >	
C301	1-162-294-31	CERAMIC	0.001uF 10% 50V	IC301	8-759-467-10	IC LM4700TF	
C302	1-104-664-11	ELECT	47uF 20% 25V	IC302	8-759-111-68	IC uPC1237HA	
C303	1-128-560-11	ELECT	22uF 20% 100V	IC303	8-759-604-40	IC M5F78M15	
C304	1-126-965-11	ELECT	22uF 20% 50V			< RESISTOR >	
C305	1-126-965-11	ELECT	22uF 20% 50V				
C306	1-136-165-00	FILM	0.1uF 5% 50V	R301	1-249-429-11	CARBON 10K 5%	1/4W
C307	1-126-933-11	ELECT	100uF 20% 16V	R302	1-247-863-91	CARBON 22K 5%	1/4W
C308	1-126-960-11	ELECT	1uF 20% 50V	R303	1-249-417-11	CARBON 1K 5%	1/4W F
C309	1-104-664-11	ELECT	47uF 20% 25V	R304	1-247-863-91	CARBON 22K 5%	1/4W
C310	1-126-955-11	ELECT	4700uF 20% 35V	R305	1-249-393-11	CARBON 10 5%	1/4W F
C311	1-126-955-11	ELECT	4700uF 20% 35V	R306	1-249-441-11	CARBON 100K 5%	1/4W
C312	1-126-942-61	ELECT	1000uF 20% 25V	R307	1-247-807-31	CARBON 100 5%	1/4W
C313	1-126-935-11	ELECT	470uF 20% 16V	R308	1-249-429-11	CARBON 10K 5%	1/4W
C314	1-104-664-11	ELECT	47uF 20% 25V	R309	1-249-435-11	CARBON 33K 5%	1/4W
C315	1-136-165-00	FILM	0.1uF 5% 50V	R310	1-249-429-11	CARBON 10K 5%	1/4W
C316	1-136-165-00	FILM	0.1uF 5% 50V	R311	1-249-441-11	CARBON 100K 5%	1/4W
C317	1-136-165-00	FILM	0.1uF 5% 50V	$\Delta$ R312	1-215-865-11	METAL OXIDE 220 5%	1W F
C318	1-137-372-11	FILM	0.022uF 5% 50V	R313	1-249-381-11	CARBON 1 5%	1/4W F
C320	1-162-282-31	CERAMIC	100PF 10% 50V	R314	1-247-863-91	CARBON 22K 5%	1/4W
		< CONNECTOR >		R315	1-247-863-91	CARBON 22K 5%	1/4W
CN301	1-691-768-11	PLUG (MICRO CONNECTOR) 6P				< RELAY >	
* CN302	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P					
CN303	1-564-505-11	PLUG, CONNECTOR 2P				< TRANSFORMER >	
CN304	1-564-505-11	PLUG, CONNECTOR 2P		RY301	1-755-142-11	RELAY	
		< DIODE >					
D301	8-719-028-23	DIODE D3SBA20-4101		$\Delta$ T301	1-431-342-11	TRANSFORMER, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
D302	8-719-987-63	DIODE 1N4148M		$\Delta$ T301	1-431-343-11	TRANSFORMER, POWER (US,CND)	
D303	8-719-987-63	DIODE 1N4148M				*****	
D304	8-719-987-63	DIODE 1N4148M					
D305	8-719-200-82	DIODE 11ES2					
D306	8-719-200-82	DIODE 11ES2		*	A-4403-006-A	DISPLAY BOARD, COMPLETE *****	
D307	8-719-200-82	DIODE 11ES2					
D308	8-719-200-82	DIODE 11ES2					
D309	8-719-987-63	DIODE 1N4148M		*	4-991-276-01	HOLDER, FL TUBE	
D310	8-719-987-63	DIODE 1N4148M				< CAPACITOR >	
		< FUSE >		C501	1-124-261-00	ELECT 10uF 20%	50V
$\Delta$ F301	1-532-389-51	FUSE TIME-LAG (T0.5AL/250V) (AEP,UK,G,E,SP,MY,TH,AUS,CH)		C502	1-124-261-00	ELECT 10uF 20%	50V
$\Delta$ F301	1-576-100-11	FUSE (1A/250V)(US,CND)		C503	1-164-159-21	CERAMIC 0.1uF	50V
				C504	1-164-159-21	CERAMIC 0.1uF	50V

**DISPLAY**

**DOLBY**

Ref. No.	Part No.	Description	Remark		
C505	1-164-159-21	CERAMIC	0.1uF		50V
C506	1-126-154-11	ELECT	47uF	20%	6.3V
C507	1-104-905-11	CAPACITOR	0.22F		5.5V
C508	1-164-159-21	CERAMIC	0.1uF		50V
C509	1-124-465-00	ELECT	0.47uF	20%	50V
C510	1-164-159-21	CERAMIC	0.1uF		50V
C512	1-164-159-21	CERAMIC	0.1uF		50V
C513	1-126-154-11	ELECT	47uF	20%	6.3V
< CONNECTOR >					
* CN152	1-568-869-11	SOCKET, CONNECTOR 27P			
* CN501	1-564-710-11	PIN, CONNECTOR 8P			
< DIODE >					
D501	8-719-987-63	DIODE	1N4148M		
D502	8-719-987-63	DIODE	1N4148M		
D503	8-719-987-63	DIODE	1N4148M		
D506	8-719-987-63	DIODE	1N4148M		
D507	8-719-987-63	DIODE	1N4148M		
< FLUORESCENT INDICATOR >					
FL501	1-517-673-11	INDICATOR TUBE, FLUORESCENT			
< IC >					
IC501	8-759-463-21	IC	uPD78043FGF-021-3B9		
IC502	8-759-165-81	IC	PST600D-T		
< COIL >					
L501	1-410-521-11	INDUCTOR	100uH		
< TRANSISTOR >					
Q501	8-729-119-79	TRANSISTOR	2SC2785-FEK		
Q503	8-729-900-63	TRANSISTOR	DTA124ES		
Q504	8-729-141-30	TRANSISTOR	2SC3623-LK		
Q505	8-729-141-30	TRANSISTOR	2SC3623-LK		
Q506	8-729-900-63	TRANSISTOR	BN1F4M-TP		
Q507	8-729-900-36	TRANSISTOR	DTC124ES		
< RESISTOR >					
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-247-807-31	CARBON	100	5%	1/4W
R503	1-247-807-31	CARBON	100	5%	1/4W
R504	1-247-807-31	CARBON	100	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W F
R506	1-249-417-11	CARBON	1K	5%	1/4W F
R507	1-249-417-11	CARBON	1K	5%	1/4W F
R508	1-247-807-31	CARBON	100	5%	1/4W
R509	1-247-807-31	CARBON	100	5%	1/4W
R510	1-249-417-11	CARBON	1K	5%	1/4W F
R511	1-249-417-11	CARBON	1K	5%	1/4W F
R512	1-247-807-31	CARBON	100	5%	1/4W
R513	1-247-807-31	CARBON	100	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W F
R515	1-249-417-11	CARBON	1K	5%	1/4W F
R516	1-249-417-11	CARBON	1K	5%	1/4W F
R518	1-249-417-11	CARBON	1K	5%	1/4W F

Ref. No.	Part No.	Description	Remark			
R519	1-249-417-11	CARBON	1K	5%	1/4W F	
R520	1-249-429-11	CARBON	10K	5%	1/4W	
R521	1-249-429-11	CARBON	10K	5%	1/4W	
R522	1-247-843-11	CARBON	3.3K	5%	1/4W	
R526	1-247-843-11	CARBON	3.3K	5%	1/4W	
R534	1-247-815-91	CARBON	220	5%	1/4W	
R535	1-249-407-11	CARBON	150	5%	1/4W F	
R536	1-247-815-91	CARBON	220	5%	1/4W	
R537	1-249-437-11	CARBON	47K	5%	1/4W	
R538	1-249-437-11	CARBON	47K	5%	1/4W	
R539	1-249-437-11	CARBON	47K	5%	1/4W	
R540	1-249-437-11	CARBON	47K	5%	1/4W	
R541	1-249-437-11	CARBON	47K	5%	1/4W	
R542	1-249-437-11	CARBON	47K	5%	1/4W	
R543	1-249-437-11	CARBON	47K	5%	1/4W	
R544	1-249-437-11	CARBON	47K	5%	1/4W	
R545	1-249-437-11	CARBON	47K	5%	1/4W	
R546	1-249-437-11	CARBON	47K	5%	1/4W	
R547	1-249-437-11	CARBON	47K	5%	1/4W	
R548	1-249-437-11	CARBON	47K	5%	1/4W	
R549	1-249-437-11	CARBON	47K	5%	1/4W	
R550	1-249-437-11	CARBON	47K	5%	1/4W	
R551	1-249-437-11	CARBON	47K	5%	1/4W	
R552	1-249-437-11	CARBON	47K	5%	1/4W	
R553	1-249-437-11	CARBON	47K	5%	1/4W	
R554	1-249-437-11	CARBON	47K	5%	1/4W	
R555	1-249-417-11	CARBON	1K	5%	1/4W F	
R556	1-249-429-11	CARBON	10K	5%	1/4W	
R560	1-249-413-11	CARBON	470	5%	1/4W F	
R561	1-249-413-11	CARBON	470	5%	1/4W F	
R562	1-249-437-11	CARBON	47K	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-247-807-31	CARBON	100	5%	1/4W	
R565	1-247-807-31	CARBON	100	5%	1/4W	
R566	1-249-425-11	CARBON	4.7K	5%	1/4W F	
R570	1-247-895-91	CARBON	470K	5%	1/4W	
R571	1-247-895-91	CARBON	470K	5%	1/4W	
R572	1-249-419-11	CARBON	1.5K	5%	1/4W	
R573	1-249-419-11	CARBON	1.5K	5%	1/4W	
R574	1-249-437-11	CARBON	47K	5%	1/4W	
R575	1-249-437-11	CARBON	47K	5%	1/4W	
< VIBRATOR >						
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHz)				
*****						
*	A-4403-001-A	DOLBY BOARD, COMPLETE				
*****						
< CAPACITOR >						
C301	1-136-157-00	FILM	0.022uF	5%	50V	
C302	1-136-161-00	FILM	0.047uF	5%	50V	
C303	1-126-934-11	ELECT	220uF	20%	16V	
C304	1-117-910-11	ELECT	10uF	20%	50V	
C305	1-117-910-11	ELECT	10uF	20%	50V	
C306	1-117-910-11	ELECT	10uF	20%	50V	
C307	1-117-910-11	ELECT	10uF	20%	50V	

DOLBY

KEY

LED

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C308	1-126-934-11	ELECT	220uF 20% 16V	R357	1-247-903-00	CARBON 1M 5% 1/4W	
C309	1-126-960-11	ELECT	1uF 20% 50V	R358	1-247-807-31	CARBON 100 5% 1/4W	
C310	1-126-960-11	ELECT	1uF 20% 50V			< VIBRATOR >	
C311	1-136-165-00	FILM	0.1uF 5% 50V	X351	1-579-125-11	VIBRATOR, CERAMIC (8MHz)	
C312	1-136-165-00	FILM	0.1uF 5% 50V			*****	
C313	1-126-959-11	ELECT	0.47uF 20% 50V	*	1-666-222-11	KEY BOARD	
C314	1-126-963-11	ELECT	4.7uF 20% 50V			*****	
C315	1-126-959-11	ELECT	0.47uF 20% 50V			< CAPACITOR >	
C316	1-126-963-11	ELECT	4.7uF 20% 50V	C511	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C317	1-136-167-00	FILM	0.15uF 5% 50V			< DIODE >	
C318	1-126-962-11	ELECT	3.3uF 20% 50V	D504	8-719-313-43	DIODE SEL6210S-TH10 (STANDBY)	
C319	1-136-167-00	FILM	0.15uF 5% 50V	D505	8-719-045-89	DIODE SML16760CN (ON/READY)	
C320	1-136-167-00	FILM	0.15uF 5% 50V			< IC >	
C321	1-126-962-11	ELECT	3.3uF 20% 50V	IC503	8-759-339-53	IC GP1U28XB	
C322	1-136-167-00	FILM	0.15uF 5% 50V			< RESISTOR >	
C323	1-126-963-11	ELECT	4.7uF 20% 50V	R523	1-249-415-11	CARBON 680 5% 1/4W F	
C324	1-126-959-11	ELECT	0.47uF 20% 50V	R524	1-249-417-11	CARBON 1K 5% 1/4W F	
C325	1-126-963-11	ELECT	4.7uF 20% 50V	R525	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C326	1-126-959-11	ELECT	0.47uF 20% 50V	R527	1-249-415-11	CARBON 680 5% 1/4W F	
C327	1-136-165-00	FILM	0.1uF 5% 50V	R528	1-249-417-11	CARBON 1K 5% 1/4W F	
C328	1-136-165-00	FILM	0.1uF 5% 50V	R529	1-249-419-11	CARBON 1.5K 5% 1/4W F	
C329	1-104-664-11	ELECT	47uF 20% 25V	R557	1-249-429-11	CARBON 10K 5% 1/4W	
C330	1-126-959-11	ELECT	0.47uF 20% 50V	R567	1-249-417-11	CARBON 1K 5% 1/4W F	
C331	1-126-960-11	ELECT	1uF 20% 50V			< SWITCH >	
C333	1-126-934-11	ELECT	220uF 20% 16V	S501	1-762-196-21	SWITCH, TACT (INPUT)	
C334	1-162-292-31	CERAMIC	680PF 10% 50V	S502	1-762-196-21	SWITCH, TACT (S.WOOFER)	
C351	1-126-961-11	ELECT	2.2uF 20% 50V	S503	1-762-196-21	SWITCH, TACT (SURROUND)	
C352	1-126-934-11	ELECT	220uF 20% 16V	S504	1-762-196-21	SWITCH, TACT (CTR MODE)	
C354	1-136-165-00	FILM	0.1uF 5% 50V	S505	1-762-196-21	SWITCH, TACT (MASTER VOL +)	
C355	1-136-171-00	FILM	0.33uF 5% 50V	S506	1-762-196-21	SWITCH, TACT (MASTER VOL -)	
C356	1-126-934-11	ELECT	220uF 20% 16V	S507	1-762-196-21	SWITCH, TACT (POWER)	
C357	1-126-960-11	ELECT	1uF 20% 50V			*****	
C358	1-126-960-11	ELECT	1uF 20% 50V	*	1-666-727-11	LED BOARD	
C359	1-126-960-11	ELECT	1uF 20% 50V			*****	
C360	1-136-173-00	FILM	0.47uF 5% 50V			< DIODE >	
C361	1-136-164-00	FILM	0.082uF 5% 50V	D501	8-719-992-14	DIODE LIR5BEA	
C362	1-137-367-11	FILM	0.0033uF 5% 50V	D502	8-719-992-14	DIODE LIR5BEA	
C363	1-136-164-00	FILM	0.082uF 5% 50V	D503	8-719-992-14	DIODE LIR5BEA	
C364	1-126-934-11	ELECT	220uF 20% 16V	D504	8-719-992-14	DIODE LIR5BEA	
C365	1-162-294-31	CERAMIC	1000PF 10% 50V	D505	8-719-992-14	DIODE LIR5BEA	
C366	1-164-159-21	CERAMIC	0.1uF 50V	D506	8-719-992-14	DIODE LIR5BEA	
		< CONNECTOR >		D511	8-719-992-14	DIODE LIR5BEA	
CN251	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P		D512	8-719-992-14	DIODE LIR5BEA	
		< IC >		D513	8-719-992-14	DIODE LIR5BEA	
IC301	8-759-442-96	IC LA2786		D514	8-719-992-14	DIODE LIR5BEA	
IC351	8-759-442-97	IC LV1016		D515	8-719-992-14	DIODE LIR5BEA	
		< COIL >		D516	8-719-992-14	DIODE LIR5BEA	
L301	1-408-117-00	INDUCTOR	10uH			< RESISTOR >	
L351	1-408-117-00	INDUCTOR	10uH	R354	1-249-436-11	CARBON 39K 5% 1/4W	
		< RESISTOR >		R355	1-249-431-11	CARBON 15K 5% 1/4W	
R354	1-249-436-11	CARBON	39K 5% 1/4W	R356	1-249-439-11	CARBON 68K 5% 1/4W	

**LED**

**MAIN**

Ref. No.	Part No.	Description	Remark		
< TRANSISTOR >					
Q501	8-729-111-29	TRANSISTOR 2SD1616A-K			
Q502	8-729-111-29	TRANSISTOR 2SD1616A-K			
Q503	8-729-111-29	TRANSISTOR 2SD1616A-K			
Q504	8-729-111-29	TRANSISTOR 2SD1616A-K			
< RESISTOR >					
R501	1-249-395-11	CARBON	15	5%	1/4W
R502	1-249-395-11	CARBON	15	5%	1/4W
R503	1-249-395-11	CARBON	15	5%	1/4W
R504	1-249-395-11	CARBON	15	5%	1/4W
*****					
*	A-4403-009-A	MAIN BOARD, COMPLETE	*****		
		(AEP,UK,G,E,SP,MY,TH,AUS,CH)			
*	A-4403-000-A	MAIN BOARD, COMPLETE (US,CND)	*****		
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
< CAPACITOR >					
C101	1-162-286-21	CERAMIC	220PF	10%	50V
C102	1-162-286-21	CERAMIC	220PF	10%	50V
C109	1-126-960-11	ELECT	1uF	20%	50V
C110	1-126-960-11	ELECT	1uF	20%	50V
C161	1-162-286-21	CERAMIC	220PF	10%	50V
C162	1-162-286-21	CERAMIC	220PF	10%	50V
C166	1-126-964-11	ELECT	10uF	20%	50V
C167	1-126-964-11	ELECT	10uF	20%	50V
C168	1-126-964-11	ELECT	10uF	20%	50V
C201	1-126-960-11	ELECT	1uF	20%	50V
C203	1-126-960-11	ELECT	1uF	20%	50V
C204	1-126-933-11	ELECT	100uF	20%	16V
C205	1-126-960-11	ELECT	1uF	20%	50V
C207	1-126-960-11	ELECT	1uF	20%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C211	1-126-960-11	ELECT	1uF	20%	50V
C212	1-126-960-11	ELECT	1uF	20%	50V
C213	1-136-169-00	FILM	0.22uF	5%	50V
C214	1-136-169-00	FILM	0.22uF	5%	50V
C215	1-126-960-11	ELECT	1uF	20%	50V
C216	1-126-964-11	ELECT	10uF	20%	50V
C219	1-126-960-11	ELECT	1uF	20%	50V
C220	1-137-367-11	FILM	0.0033uF	5%	50V
C221	1-126-960-11	ELECT	1uF	20%	50V
C222	1-126-960-11	ELECT	1uF	20%	50V
C223	1-136-171-00	FILM	0.33uF	5%	50V
C225	1-126-960-11	ELECT	1uF	20%	50V
C226	1-128-551-11	ELECT	22uF	20%	25V
C240	1-126-960-11	ELECT	1uF	20%	50V
C251	1-126-933-11	ELECT	100uF	20%	16V
C252	1-126-964-11	ELECT	10uF	20%	50V
C253	1-137-367-11	FILM	0.0033uF	5%	50V
C254	1-136-157-00	FILM	0.022uF	5%	50V
C256	1-126-960-11	ELECT	1uF	20%	50V
C257	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C258	1-126-964-11	ELECT	10uF	20%	50V
C259	1-137-367-11	FILM	0.0033uF	5%	50V
C260	1-136-157-00	FILM	0.022uF	5%	50V
C262	1-126-960-11	ELECT	1uF	20%	50V
C263	1-126-960-11	ELECT	1uF	20%	50V
C265	1-126-960-11	ELECT	1uF	20%	50V
C266	1-128-551-11	ELECT	22uF	20%	25V
C281	1-126-960-11	ELECT	1uF	20%	50V
C282	1-136-161-00	FILM	0.047uF	5%	50V
C283	1-136-161-00	FILM	0.047uF	5%	50V
C284	1-136-163-00	FILM	0.068uF	5%	50V
C285	1-136-163-00	FILM	0.068uF	5%	50V
C288	1-136-161-00	FILM	0.047uF	5%	50V
C289	1-136-161-00	FILM	0.047uF	5%	50V
C290	1-126-960-11	ELECT	1uF	20%	50V
C291	1-126-960-11	ELECT	1uF	20%	50V
C293	1-126-960-11	ELECT	1uF	20%	50V
C294	1-126-960-11	ELECT	1uF	20%	50V
C296	1-126-960-11	ELECT	1uF	20%	50V
C297	1-162-294-31	CERAMIC	1000PF	10%	50V
C403	1-136-167-00	FILM	0.15uF	5%	50V
C404	1-136-167-00	FILM	0.15uF	5%	50V
C405	1-136-167-00	FILM	0.15uF	5%	50V
C406	1-136-167-00	FILM	0.15uF	5%	50V
C407	1-126-960-11	ELECT	1uF	20%	50V
C421	1-126-960-11	ELECT	1uF	20%	50V
C422	1-126-961-11	ELECT	2.2uF	20%	50V
C431	1-126-960-11	ELECT	1uF	20%	50V
C432	1-126-961-11	ELECT	2.2uF	20%	50V
C441	1-126-960-11	ELECT	1uF	20%	50V
C442	1-126-961-11	ELECT	2.2uF	20%	50V
C451	1-126-960-11	ELECT	1uF	20%	50V
C452	1-126-961-11	ELECT	2.2uF	20%	50V
C453	1-126-960-11	ELECT	1uF	20%	50V
C460	1-126-961-11	ELECT	2.2uF	20%	50V
C461	1-126-960-11	ELECT	1uF	20%	50V
C462	1-162-282-31	CERAMIC	100PF	10%	50V
C463	1-162-282-31	CERAMIC	100PF	10%	50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C803	1-126-959-11	ELECT	0.47uF	20%	50V
C908	1-104-664-11	ELECT	47uF	20%	25V
C921	1-104-664-11	ELECT	47uF	20%	25V
C922	1-126-941-11	ELECT	470uF	20%	25V
C923	1-104-664-11	ELECT	47uF	20%	25V
< CONNECTOR >					
*	CN101	1-568-842-11	SOCKET, CONNECTOR 27P		
	CN104	1-778-241-11	CONNECTOR, BOARD TO BOARD 5P		
*	CN105	1-770-727-11	CONNECTOR, BOARD TO BOARD 8P		
*	CN201	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P		
	CN801	1-564-980-11	PIN, CONNECTOR 4P		
< DIODE >					
D101	8-719-987-63	DIODE	1N4148M		
D102	8-719-987-63	DIODE	1N4148M		
D401	8-719-987-63	DIODE	1N4148M		
D402	8-719-987-63	DIODE	1N4148M		
D403	8-719-987-63	DIODE	1N4148M		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D801	8-719-987-63	DIODE 1N4148M		R201	1-247-843-11	CARBON 3.3K 5%	1/4W
D802	8-719-987-63	DIODE 1N4148M		R202	1-249-437-11	CARBON 47K 5%	1/4W
D804	8-719-933-54	DIODE HZS9A2L		R203	1-249-437-11	CARBON 47K 5%	1/4W
D805	8-719-987-63	DIODE 1N4148M		R205	1-249-425-11	CARBON 4.7K 5%	1/4W F
D806	8-719-987-63	DIODE 1N4148M		R231	1-249-427-11	CARBON 6.8K 5%	1/4W F
D807	8-719-987-63	DIODE 1N4148M		R232	1-249-441-11	CARBON 100K 5%	1/4W
D808	8-719-987-63	DIODE 1N4148M		R233	1-249-441-11	CARBON 100K 5%	1/4W
		< IC >		R281	1-249-431-11	CARBON 15K 5%	1/4W
IC103	8-759-634-51	IC M5218AP		R282	1-247-876-11	CARBON 75K 5%	1/4W
IC201	8-759-443-67	IC LC75373ED		R283	1-247-883-00	CARBON 150K 5%	1/4W
IC251	8-759-443-67	IC LC75373ED		R284	1-249-429-11	CARBON 10K 5%	1/4W
IC401	8-759-634-51	IC M5218AP		R287	1-247-876-11	CARBON 75K 5%	1/4W
IC403	8-759-634-51	IC M5218AP		R288	1-249-431-11	CARBON 15K 5%	1/4W
IC901	8-759-701-59	IC NJM78M09FA		R291	1-247-863-91	CARBON 22K 5%	1/4W
IC903	8-759-605-01	IC M5F78M18L		R292	1-247-863-91	CARBON 22K 5%	1/4W
		< JACK >		R293	1-247-889-00	CARBON 270K 5%	1/4W
J101	1-766-851-11	JACK, PIN 4P (1 IN OUT)		R294	1-247-889-00	CARBON 270K 5%	1/4W
J102	1-766-851-11	JACK, PIN 4P (2 IN OUT)		R295	1-247-889-00	CARBON 270K 5%	1/4W
J103	1-774-136-11	CONNECTOR, ROUND TYPE 6P (REAR SPEAKER OUT)		△R297	1-249-474-11	CARBON 1 5%	1/2W
J801	1-566-819-41	JACK 1P (CONTROL S TV IN)(US,CND)		R407	1-249-441-11	CARBON 100K 5%	1/4W
		< TRANSISTOR >		R408	1-249-401-11	CARBON 47 5%	1/4W F
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK		R409	1-249-429-11	CARBON 10K 5%	1/4W
Q421	8-729-141-30	TRANSISTOR 2SC3623A-LK		R410	1-249-429-91	CARBON 10K 5%	1/4W
Q422	8-729-900-63	TRANSISTOR DTA124ES		R411	1-249-437-11	CARBON 47K 5%	1/4W
Q431	8-729-141-30	TRANSISTOR 2SC3623A-LK		R412	1-249-429-91	CARBON 10K 5%	1/4W
Q441	8-729-141-30	TRANSISTOR 2SC3623A-LK		R413	1-249-441-11	CARBON 100K 5%	1/4W
Q442	8-729-900-63	TRANSISTOR DTA124ES		R414	1-249-429-11	CARBON 10K 5%	1/4W
Q451	8-729-141-30	TRANSISTOR 2SC3623A-LK		R415	1-249-429-11	CARBON 10K 5%	1/4W
Q452	8-729-900-63	TRANSISTOR DTA124ES		R421	1-249-441-11	CARBON 100K 5%	1/4W
Q461	8-729-141-30	TRANSISTOR 2SC3623A-LK		R422	1-249-417-11	CARBON 1K 5%	1/4W F
Q462	8-729-900-63	TRANSISTOR DTA124ES		R423	1-249-429-11	CARBON 10K 5%	1/4W
Q803	8-729-111-29	TRANSISTOR 2SD1616A-K		R424	1-247-863-91	CARBON 22K 5%	1/4W
Q804	8-729-116-57	TRANSISTOR 2SB1068-K		R425	1-249-437-11	CARBON 47K 5%	1/4W
		< RESISTOR >		R431	1-249-441-11	CARBON 100K 5%	1/4W
R101	1-249-417-11	CARBON 1K 5%	1/4W F	R432	1-249-417-11	CARBON 1K 5%	1/4W F
R102	1-249-417-11	CARBON 1K 5%	1/4W F	R433	1-249-429-11	CARBON 10K 5%	1/4W
R103	1-249-437-11	CARBON 47K 5%	1/4W	R441	1-249-441-11	CARBON 100K 5%	1/4W
R104	1-249-437-11	CARBON 47K 5%	1/4W	R442	1-249-417-11	CARBON 1K 5%	1/4W F
R117	1-249-415-11	CARBON 680 5%	1/4W F	R443	1-249-429-11	CARBON 10K 5%	1/4W
R118	1-249-441-11	CARBON 100K 5%	1/4W	R444	1-247-863-91	CARBON 22K 5%	1/4W
R119	1-249-415-11	CARBON 680 5%	1/4W F	R445	1-249-437-11	CARBON 47K 5%	1/4W
R120	1-249-441-11	CARBON 100K 5%	1/4W	R451	1-249-441-11	CARBON 100K 5%	1/4W
R121	1-249-441-11	CARBON 100K 5%	1/4W	R452	1-249-417-11	CARBON 1K 5%	1/4W F
R122	1-249-417-11	CARBON 1K 5%	1/4W F	R453	1-249-429-11	CARBON 10K 5%	1/4W
R123	1-249-441-11	CARBON 100K 5%	1/4W	R454	1-247-863-91	CARBON 22K 5%	1/4W
R124	1-249-417-11	CARBON 1K 5%	1/4W F	R455	1-249-437-11	CARBON 47K 5%	1/4W
R125	1-249-441-11	CARBON 100K 5%	1/4W	R461	1-249-441-11	CARBON 100K 5%	1/4W
R126	1-247-815-91	CARBON 220 5%	1/4W	R462	1-249-417-11	CARBON 1K 5%	1/4W F
R127	1-247-815-91	CARBON 220 5%	1/4W	R463	1-249-429-11	CARBON 10K 5%	1/4W
R151	1-249-417-11	CARBON 1K 5%	1/4W F	R464	1-247-863-91	CARBON 22K 5%	1/4W
R152	1-249-417-11	CARBON 1K 5%	1/4W F	R465	1-249-437-11	CARBON 47K 5%	1/4W
R153	1-249-437-11	CARBON 47K 5%	1/4W	R801	1-249-429-11	CARBON 10K 5%	1/4W
R154	1-249-437-11	CARBON 47K 5%	1/4W	R803	1-249-393-11	CARBON 10 5%	1/4W F
				R809	1-247-807-31	CARBON 100 5%	1/4W
				R810	1-249-393-11	CARBON 10 5%	1/4W F
				R811	1-249-437-11	CARBON 47K 5%	1/4W
				R812	1-249-437-11	CARBON 47K 5%	1/4W

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<b>MAIN</b>	<b>P.S</b>	<b>POWER FR</b>
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Ref. No.	Part No.	Description	Remark
R813	1-249-441-11	CARBON 100K 5%	1/4W
R814	1-249-425-11	CARBON 4.7K 5%	1/4W F
R815	1-249-429-11	CARBON 10K 5%	1/4W
R816	1-249-417-11	CARBON 1K 5%	1/4W F
< SWITCH >			
S801	1-571-588-11	SWITCH, SLIDE (VOLUME SYNCHRO)	
*****			
*	A-4403-002-A	P.S BOARD, COMPLETE	*****
< CAPACITOR >			
C701	1-126-963-11	ELECT 4.7uF 20%	50V
C702	1-126-933-11	ELECT 100uF 20%	16V
C703	1-126-933-11	ELECT 100uF 20%	16V
C704	1-126-963-11	ELECT 4.7uF 20%	50V
C705	1-104-664-11	ELECT 47uF 20%	25V
C901	1-136-165-00	FILM 0.1uF 5%	50V
C902	1-136-165-00	FILM 0.1uF 5%	50V
C903	1-117-691-11	ELECT 8200uF 20%	50V
C904	1-117-691-11	ELECT 8200uF 20%	50V
C905	1-136-165-00	FILM 0.1uF 5%	50V
C907	1-126-944-11	ELECT 3300uF 20%	25V
C909	1-126-964-11	ELECT 10uF 20%	50V
C910	1-126-925-11	ELECT 470uF 20%	10V
C911	1-126-951-11	ELECT 470uF 20%	35V
C912	1-126-967-11	ELECT 47uF 20%	50V
C913	1-126-964-11	ELECT 10uF 20%	50V
C914	1-126-967-11	ELECT 47uF 20%	50V
C920	1-126-968-11	ELECT 100uF 20%	50V
C930	1-127-539-11	ELECT 1uF 20%	25V
C924	1-126-964-11	ELECT 10uF 20%	50V
C925	1-104-664-11	ELECT 47uF 20%	25V
< CONNECTOR >			
CN154	1-778-240-11	CONNECTOR, BOARD TO BOARD 5P	
* CN155	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
* CN701	1-564-243-11	PIN, CONNECTOR 6P	
< DIODE >			
D901	8-719-062-39	DIODE D4SBL20UF1	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-200-82	DIODE 11ES2	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-200-82	DIODE 11ES2	
D907	8-719-200-82	DIODE 11ES2	
D908	8-719-200-82	DIODE 11ES2	
D909	8-719-002-43	DIODE UZL-27L-TA	
D910	8-719-014-66	DIODE UZP-5.6B	
D911	8-719-987-63	DIODE 1N4148M	
D912	8-719-987-63	DIODE 1N4148M	
D913	8-719-200-82	DIODE 11ES2	
D914	8-719-933-41	DIODE HZS6C3L	
D915	8-719-987-63	DIODE 1N4148M	

Ref. No.	Part No.	Description	Remark
< IC >			
IC701	8-759-111-68	IC uPC1237HA	
IC904	8-759-158-62	IC TA78057S	
< JACK >			
J701	1-537-952-11	TERMINAL BOARD, PUSH (ANTENNA) 2P (EXTERNAL CENTER SPEAKER)	
< TRANSISTOR >			
Q701	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q702	8-729-900-63	TRANSISTOR DTA124ES	
Q902	8-729-116-57	TRANSISTOR 2SB1068-K	
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q904	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
R706	1-249-429-11	CARBON 10K 5%	1/4W
R707	1-249-417-11	CARBON 1K 5%	1/4W F
R708	1-247-863-91	CARBON 22K 5%	1/4W
R709	1-247-863-91	CARBON 22K 5%	1/4W
R710	1-249-435-11	CARBON 33K 5%	1/4W
R711	1-249-427-11	CARBON 6.8K 5%	1/4W F
R906	1-247-843-11	CARBON 3.3K 5%	1/4W
R907	1-249-437-11	CARBON 47K 5%	1/4W
R908	1-247-807-31	CARBON 100 5%	1/4W
R909	1-247-807-31	CARBON 100 5%	1/4W
R910	1-249-431-11	CARBON 15K 5%	1/4W
△R912	1-215-888-00	CARBON 220 5%	2W F
R913	1-249-429-11	CARBON 10K 5%	1/4W
R914	1-249-429-11	CARBON 10K 5%	1/4W
R915	1-247-843-11	CARBON 3.3K 5%	1/4W
R926	1-249-431-11	CARBON 15K 5%	1/4W
< RELAY >			
RY901	1-515-840-11	RELAY	
< SWITCH >			
S701	1-762-405-11	SWITCH, PUSH (CENTER SPEAKER)	
< CORD >			
SDN701	1-782-492-11	CORD (WITH CONNECTOR) (R-ch SPEAKER OUTPUT)	
*****			
*	A-4403-007-A	POWER FR BOARD, COMPLETE	*****
< CAPACITOR >			
C601	1-126-960-11	ELECT 1uF 20%	50V
C602	1-162-294-31	CERAMIC 0.001uF 10%	50V
C603	1-104-664-11	ELECT 47uF 20%	25V
C604	1-162-286-21	CERAMIC 220PF 10%	50V
C605	1-136-165-00	FILM 0.1uF 5%	50V
C611	1-126-960-11	ELECT 1uF 20%	50V
C612	1-162-294-31	CERAMIC 0.001uF 10%	50V
C613	1-104-664-11	ELECT 47uF 20%	25V

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C614	1-162-286-21	CERAMIC	220PF 10%	50V	R623	1-249-417-11	CARBON 1K 5% 1/4W F
C615	1-136-165-00	FILM	0.1uF 5%	50V	R624	1-249-437-11	CARBON 47K 5% 1/4W
C621	1-126-960-11	ELECT	1uF 20%	50V	△R625	1-217-151-00	METAL PLATE 0.22 10% 2W
C622	1-162-294-31	CERAMIC	0.001uF 10%	50V	R626	1-247-843-11	CARBON 3.3K 5% 1/4W
C623	1-104-664-11	ELECT	47uF 20%	25V	R627	1-249-419-11	CARBON 1.5K 5% 1/4W F
C624	1-162-286-21	CERAMIC	220PF 10%	50V	R628	1-249-438-11	CARBON 56K 5% 1/4W
C625	1-136-165-00	FILM	0.1uF 5%	50V	R629	1-249-389-11	CARBON 4.7 5% 1/4W F
C681	1-126-968-11	ELECT	100uF 20%	50V	R650	1-249-389-11	CARBON 4.7 5% 1/4W F
C682	1-126-968-11	ELECT	100uF 20%	50V	R651	1-249-389-11	CARBON 4.7 5% 1/4W F
C683	1-126-968-11	ELECT	100uF 20%	50V	△R691	1-212-958-00	FUSIBLE 10 5% 1/2W F
C684	1-126-968-11	ELECT	100uF 20%	50V	△R692	1-212-982-00	FUSIBLE 100 5% 1/2W F
C685	1-126-971-11	ELECT	470uF 20%	50V	△R693	1-212-982-00	FUSIBLE 100 5% 1/2W F
C686	1-126-971-11	ELECT	470uF 20%	50V	△R694	1-212-982-00	FUSIBLE 100 5% 1/2W F
		< CONNECTOR >			△R695	1-212-982-00	FUSIBLE 100 5% 1/2W F
CN153	1-564-522-11	PLUG, CONNECTOR 7P			R701	1-249-441-11	CARBON 100K 5% 1/4W
* CN601	1-564-214-11	PIN, CONNECTOR (B3PS-VH) 3P			R702	1-249-441-11	CARBON 100K 5% 1/4W
CN602	1-770-721-11	CONNECTOR, BOARD TO BOARD 4P			R703	1-249-441-11	CARBON 100K 5% 1/4W
CN603	1-770-722-11	CONNECTOR, BOARD TO BOARD 6P			R704	1-249-441-11	CARBON 100K 5% 1/4W
CN605	1-564-524-11	PLUG, CONNECTOR 9P			R705	1-249-441-11	CARBON 100K 5% 1/4W
		< DIODE >			R712	1-249-411-11	CARBON 330 5% 1/4W
D701	8-719-987-63	DIODE 1N4148M			R713	1-249-411-11	CARBON 330 5% 1/4W
		< IC >			R714	1-249-411-11	CARBON 330 5% 1/4W
IC601	8-749-013-55	IC STK400-030				< RELAY >	
		< COIL >			RY701	1-755-142-11	RELAY
L601	1-420-872-00	COIL, AIR-CORE			RY702	1-755-142-11	RELAY
		< TRANSISTOR >			RY703	1-755-142-11	RELAY
Q601	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				*****	
Q602	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			* A-4403-008-A	POWER SW BOARD, COMPLETE	
Q603	8-729-140-82	TRANSISTOR 2SA988-PAFAEA				*****	
		< RESISTOR >				< CAPACITOR >	
R601	1-249-417-11	CARBON	1K 5%	1/4W F	C631	1-126-960-11	ELECT 1uF 20% 50V
R602	1-249-437-11	CARBON	47K 5%	1/4W	C632	1-162-294-31	CERAMIC 0.001uF 10% 50V
R603	1-249-419-11	CARBON	1.5K 5%	1/4W F	C633	1-104-664-11	ELECT 47uF 20% 25V
R604	1-249-437-11	CARBON	47K 5%	1/4W	C634	1-162-286-21	CERAMIC 220PF 10% 50V
△R605	1-217-151-00	METAL PLATE	0.22 10%	2W	C635	1-136-165-00	FILM 0.1uF 5% 50V
R606	1-247-843-11	CARBON	3.3K 5%	1/4W	C642	1-162-294-31	CERAMIC 0.001uF 10% 50V
R607	1-249-419-11	CARBON	1.5K 5%	1/4W F	C643	1-104-664-11	ELECT 47uF 20% 25V
R608	1-249-438-11	CARBON	56K 5%	1/4W	C644	1-162-286-21	CERAMIC 220PF 10% 50V
R609	1-249-389-11	CARBON	4.7 5%	1/4W F	C645	1-136-165-00	FILM 0.1uF 5% 50V
R611	1-249-417-11	CARBON	1K 5%	1/4W F	C687	1-126-968-11	ELECT 100uF 20% 50V
R612	1-249-437-11	CARBON	47K 5%	1/4W	C688	1-126-968-11	ELECT 100uF 20% 50V
R613	1-249-419-11	CARBON	1.5K 5%	1/4W F	C689	1-126-971-11	ELECT 470uF 20% 50V
R614	1-249-437-11	CARBON	47K 5%	1/4W	C690	1-126-971-11	ELECT 470uF 20% 50V
△R615	1-217-151-00	METAL PLATE	0.22 10%	2W		< CONNECTOR >	
R616	1-247-843-11	CARBON	3.3K 5%	1/4W	CN652	1-770-725-11	CONNECTOR, BOARD TO BOARD 4P
R617	1-249-419-11	CARBON	1.5K 5%	1/4W F	CN653	1-770-726-11	CONNECTOR, BOARD TO BOARD 6P
R618	1-249-438-11	CARBON	56K 5%	1/4W		< IC >	
R619	1-249-389-11	CARBON	4.7 5%	1/4W F	IC602	8-749-922-89	IC STK401-030
R621	1-249-417-11	CARBON	1K 5%	1/4W F		< TRANSISTOR >	
R622	1-249-437-11	CARBON	47K 5%	1/4W	Q604	8-729-140-82	TRANSISTOR 2SA988-PAFAEA
					Q605	8-729-140-82	TRANSISTOR 2SA988-PAFAEA

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**POWER SW**

**RECEIVER**

Ref. No.	Part No.	Description	Remark		
< RESISTOR >					
R631	1-249-417-11	CARBON	1K	5%	1/4W F
R632	1-249-437-11	CARBON	47K	5%	1/4W
R633	1-249-419-11	CARBON	1.5K	5%	1/4W F
R634	1-249-437-11	CARBON	47K	5%	1/4W
△R635	1-217-151-00	METAL PLATE	0.22	10%	2W
R636	1-249-419-11	CARBON	1.5K	5%	1/4W F
R637	1-247-843-11	CARBON	3.3K	5%	1/4W
R638	1-249-438-11	CARBON	56K	5%	1/4W
R639	1-249-389-11	CARBON	4.7	5%	1/4W F
R641	1-249-417-11	CARBON	1K	5%	1/4W F
R642	1-249-437-11	CARBON	47K	5%	1/4W
R643	1-249-419-11	CARBON	1.5K	5%	1/4W F
R644	1-249-437-11	CARBON	47K	5%	1/4W
△R645	1-217-151-00	METAL PLATE	0.22	10%	2W
R646	1-249-419-11	CARBON	1.5K	5%	1/4W F
R647	1-247-843-11	CARBON	3.3K	5%	1/4W
R648	1-249-438-11	CARBON	56K	5%	1/4W
R649	1-249-389-11	CARBON	4.7	5%	1/4W F
△R696	1-212-958-00	FUSIBLE	10	5%	1/2W F
△R697	1-212-982-00	FUSIBLE	100	5%	1/2W F
△R698	1-212-982-00	FUSIBLE	100	5%	1/2W F
*****					
*	A-4398-847-A	RECEIVER BOARD, COMPLETE	*****		
< CAPACITOR >					
C1	1-162-306-11	CERAMIC	0.01uF	20%	16V
C2	1-162-306-11	CERAMIC	0.01uF	20%	16V
C3	1-136-177-00	FILM	1uF	5%	50V
C4	1-162-306-11	CERAMIC	0.01uF	20%	16V
C5	1-162-306-11	CERAMIC	0.01uF	20%	16V
C6	1-102-962-00	CERAMIC	30PF	5%	50V
C101	1-162-306-11	CERAMIC	0.01uF	20%	16V
C102	1-104-664-11	ELECT	47uF	20%	25V
C103	1-126-960-11	ELECT	1uF	20%	50V
C104	1-102-973-00	CERAMIC	100PF	5%	50V
C105	1-110-335-11	MYLAR	100PF	5%	50V
C106	1-126-960-11	ELECT	1uF	20%	50V
C107	1-137-364-11	CERAMIC	0.001uF	5%	50V
C108	1-130-467-00	MYLAR	470PF	5%	50V
C109	1-110-335-11	MYLAR	100PF	5%	50V
C110	1-102-973-00	CERAMIC	100PF	20%	16V
C113	1-126-960-11	ELECT	1uF	20%	50V
C126	1-126-933-11	ELECT	100uF	20%	16V
C127	1-104-664-11	ELECT	47uF	20%	25V
C128	1-162-306-11	CERAMIC	0.01uF	20%	16V
C129	1-104-664-11	ELECT	47uF	20%	25V
C130	1-104-664-11	ELECT	47uF	20%	25V
C131	1-126-956-91	ELECT	0.1uF	20%	50V
C132	1-162-306-11	CERAMIC	0.01uF	20%	16V
C133	1-162-306-11	CERAMIC	0.01uF	20%	16V
C134	1-126-963-11	ELECT	4.7uF	20%	50V
C135	1-162-306-11	CERAMIC	0.01uF	20%	16V
C136	1-104-666-11	ELECT	220uF	20%	25V
C137	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description	Remark		
C138	1-162-306-11	CERAMIC	0.01uF	20%	16V
C139	1-162-306-11	CERAMIC	0.01uF	20%	16V
C140	1-162-306-11	CERAMIC	0.01uF	20%	16V
C141	1-162-306-11	CERAMIC	0.01uF	20%	16V
C143	1-126-960-11	ELECT	1uF	20%	50V
C144	1-126-964-11	ELECT	10uF	20%	50V
C145	1-126-963-11	ELECT	4.7uF	20%	50V
C148	1-162-306-11	CERAMIC	0.01uF	20%	16V
< DIODE >					
D1	8-719-992-09	PHOTO DIODE PP-801			
D108	8-719-001-18	DIODE UZL-9M3			
D109	8-719-313-40	DIODE SEL1516W			
< IC >					
IC103	8-759-602-01	IC M5220P			
IC104	8-759-812-35	IC LA1235			
IC105	8-759-384-90	IC TK10691MTL			
< IFT >					
IFT103	1-416-229-11	COIL (DISCRIMINATOR)			
IFT104	1-416-200-11	COIL (FILTER)			
< COIL >					
L1	1-410-363-11	INDUCTOR	27uH		
L101	1-410-521-11	INDUCTOR	100uH		
< TRANSISTOR >					
Q1	8-729-218-43	TRANSISTOR 2SK184-GR			
Q2	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q4	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q102	8-729-209-15	TRANSISTOR 2SD2012			
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q106	8-729-029-66	TRANSISTOR DTC114ESA			
Q107	8-729-029-66	TRANSISTOR DTC114ESA			
< RESISTOR >					
R1	1-249-421-11	CARBON	2.2K	5%	1/4W F
R2	1-249-417-11	CARBON	1K	5%	1/4W F
R3	1-249-411-11	CARBON	330	5%	1/4W
R4	1-249-421-11	CARBON	2.2K	5%	1/4W F
R5	1-249-438-11	CARBON	56K	5%	1/4W
R6	1-249-441-11	CARBON	100K	5%	1/4W
R7	1-247-843-11	CARBON	3.3K	5%	1/4W
R8	1-249-417-11	CARBON	1K	5%	1/4W F
R101	1-249-425-11	CARBON	4.7K	5%	1/4W
R102	1-249-421-11	CARBON	2.2K	5%	1/4W F
R103	1-247-863-91	CARBON	22K	5%	1/4W
R104	1-249-425-11	CARBON	4.7K	5%	1/4W
R105	1-249-417-11	CARBON	1K	5%	1/4W F
R106	1-249-429-11	CARBON	10K	5%	1/4W F
R107	1-249-429-11	CARBON	10K	5%	1/4W F
R108	1-249-429-11	CARBON	10K	5%	1/4W F
R115	1-249-409-11	CARBON	220	5%	1/4W F
R119	1-249-437-11	CARBON	47K	5%	1/4W
R127	1-249-409-11	CARBON	220	5%	1/4W F

<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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**TRANSMITTER**

Ref. No.	Part No.	Description	Remark
IC291	8-759-165-80	IC PST600C-T	
IC292	8-759-708-08	IC NJM78L08A	
		< COIL >	
L201	1-416-171-11	COIL (OSC)	
L203	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q201	8-729-266-83	TRANSISTOR 2SC2668-Y	
Q202	8-729-266-83	TRANSISTOR 2SC2668-Y	
Q203	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q291	8-729-801-84	TRANSISTOR 2SB1013-4	
Q292	8-729-029-20	TRANSISTOR RT1P141SK-TP	
Q294	8-729-029-66	TRANSISTOR DTC114ESA	
		< RESISTOR >	
R201	1-249-417-11	CARBON 1K 5% 1/4W F	
R202	1-249-441-11	CARBON 100K 5% 1/4W	
R203	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R204	1-247-863-91	CARBON 22K 5% 1/4W	
R205	1-249-419-11	CARBON 1.5K 5% 1/4W	
R206	1-249-431-11	CARBON 15K 5% 1/4W	
R207	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R208	1-247-862-11	CARBON 20K 5% 1/4W	
R209	1-247-862-11	CARBON 20K 5% 1/4W	
R211	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R212	1-215-445-00	METAL 10K 1% 1/4W	
R213	1-247-843-11	CARBON 3.3K 5% 1/4W	
R214	1-247-854-11	CARBON 9.1K 5% 1/4W	
R215	1-247-893-11	CARBON 390K 5% 1/4W	
R216	1-249-417-11	CARBON 1K 5% 1/4W F	
R218	1-249-413-11	CARBON 470 5% 1/4W F	
R219	1-249-441-11	CARBON 100K 5% 1/4W	
R220	1-249-441-11	CARBON 100K 5% 1/4W	
R222	1-249-417-11	CARBON 1K 5% 1/4W F	
R225	1-215-461-00	METAL 47K 1% 1/4W	
R226	1-215-431-00	METAL 2.7K 1% 1/4W	
R227	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R291	1-215-445-00	METAL 10K 1% 1/4W	
R292	1-215-432-00	METAL 3K 1% 1/4W	
R293	1-215-445-00	METAL 10K 1% 1/4W	
R294	1-247-807-31	CARBON 100 5% 1/4W	
R296	1-247-863-91	CARBON 22K 5% 1/4W	
		< THERMISTOR >	
TH201	1-807-972-11	THERMISTOR	
*****			
		MISCELLANEOUS	
		*****	
10	1-782-666-11	CORD	
68	1-782-666-11	CORD	
△ 110	1-575-042-21	CORD, POWER (US,CND)	
△ 110	1-575-651-21	CORD, POWER (AEP,G,E,SP,MY,TH,AUS)	
△ 110	1-751-529-11	CORD, POWER (UK)	
△ 110	1-782-510-11	CORD, POWER (CH)	

Ref. No.	Part No.	Description	Remark
111	1-773-274-11	WIRE (FLAT TYPE) (27 CORE)	
205	1-775-758-11	LEAD (WITH CONNECTOR)	
△ 261	1-782-510-11	CORD, POWER (CH)	
△ 261	1-782-603-11	CORD, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
△ 261	1-782-604-11	CORD, POWER (US,CND)	
△ 264	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
CNP201	1-782-270-11	CORD, CONNECTION (TRANSMITTER 3.5m)	
FL501	1-517-673-11	INDICATOR TUBE, FLUORESCENT	
SP301	1-505-643-11	SPEAKER (10cm)	
SP302	1-505-643-11	SPEAKER (10cm)	
SP901	1-505-654-11	SPEAKER (5cm)	
SP902	1-505-655-11	SPEAKER (10cm)	
SP903	1-505-656-11	SPEAKER (12cm)	
SP904	1-505-657-11	SPEAKER (16cm)	
SP905	1-505-654-11	SPEAKER (5cm)	
SP906	1-505-655-11	SPEAKER (10cm)	
SP907	1-505-656-11	SPEAKER (12cm)	
SP908	1-505-657-11	SPEAKER (16cm)	
△ T301	1-431-342-11	TRANSFORMER, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
△ T301	1-431-343-11	TRANSFORMER, POWER (US,CND)	
△ T901	1-431-429-11	TRANSFORMER, POWER (US,CND)	
△ T901	1-431-438-11	TRANSFORMER, POWER (AEP,UK,G,E,SP,MY,TH,AUS,CH)	
*****			
ACCESSORIES & PACKING MATERIALS			
*****			
	1-475-042-11	ADAPTOR (SCART) (AEP,UK,G)	
	1-475-232-11	REMOTE COMMANDER (RM-J57)	
	1-558-787-81	CORD, CONNECTION (AUDIO 1.5m)	
	1-769-433-11	CORD, SPEAKER (REAR SPEAKER)	
	1-775-531-11	CORD, CONNECTION (FRONT L-R CONNECTION 3.5m)	
	3-860-299-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-860-299-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (CND,AEP,E,SP)	
	3-860-299-31	MANUAL, INSTRUCTION (GERMAN,DUTCH,ITALIAN,SWEDISH,PORTUGUESE) (AEP,G)	
	3-860-299-41	MANUAL, INSTRUCTION (CHINESE)(E,SP,MY,CH)	
	4-983-536-01	COVER, BATTERY (for RM-J57)	
*****			
*****			
HARDWARE LIST			
*****			
#1	7-621-846-60	SCREW (4X25), TAPPING	
#2	7-685-134-19	SCREW +2.6X8 TYPE2 SLIT	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-881-09	SCREW +BVTT 4X8 (S)	
#5	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
#6	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#7	7-685-661-79	SCREW +P 4X12 TYPE2 NON-SLIT	
#8	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

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