

TA-N9000ES

SERVICE MANUAL

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



Photo: GOLD model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.03% total harmonic distortion from 250 milliwatts to rated output (USA model only).

Amplifier section

POWER OUTPUT

NORMAL mode

(4/8 ohms 20 Hz ~ 20 kHz, THD 0.013%)

Front: 115 W + 115 W

Center: 115 W

Rear: 115 W + 115 W

BTL mode

(8 ohms 1 kHz, THD 0.013%)

Front: 200 W + 200 W

Center: 120 W

Speaker Nominal Impedance:

Front, Rear, and Center:

4 to 16 ohms (NORMAL)

8 to 16 ohms (BTL)

Input sensitivity

1 V $\pm$ 1 dB

Frequency response

20 Hz ~ 20 kHz $\pm$ 0.2 dB (at 1 W)

10 Hz ~ 100 kHz $\pm$ 0 -3 dB (at 1 W)

Inputs

Input Jack	Sensitivity	Impedance
REAR	1 V	45 kilohms
CENTER	1 V	45 kilohms
FRONT	1 V	45 kilohms
EXTRA 2ch	1 V	45 kilohms

General

System Pure-complementary High Power Legato Linear SEPP

Power requirements

120 V AC, 60Hz

Power consumption

4.5 A

Dimensions

17 $\times$ 6 $\frac{7}{8}$ $\times$ 17 $\frac{7}{8}$ in. (430 $\times$ 173.5 $\times$ 453 mm) including projecting parts and controls

Mass (Approx.)

52 lbs 15 oz (24 kg)

Supplied accessories

Control A1 cable (1)

Design and specifications are subject to change without notice.

5 CHANNEL POWER AMPLIFIER



SONY®

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与安全有关的零部件须知

在原理图上用阴影及 △ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK △ OR DOTTED LINE WITH MARK △ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

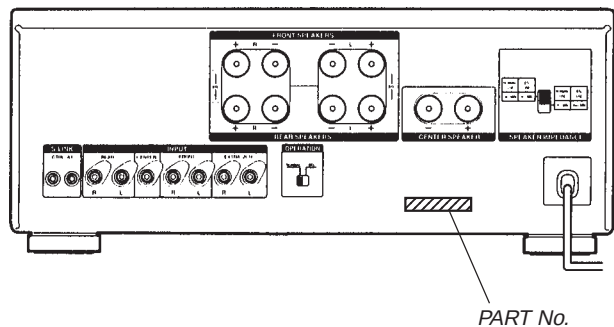
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE △ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1

SERVICING NOTES

MODEL IDENTIFICATION

– Rear view –



MODEL	PART No.
US, Canadian models	4-211-114-1□
Except US, Canadian models	4-211-114-2□

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.

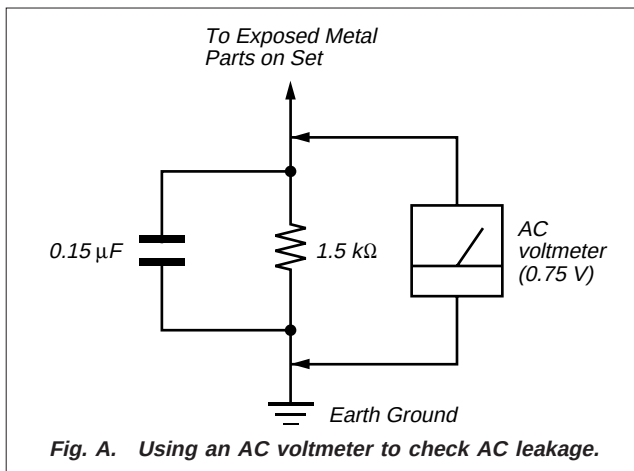
SAFETY CHECK-OUT

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

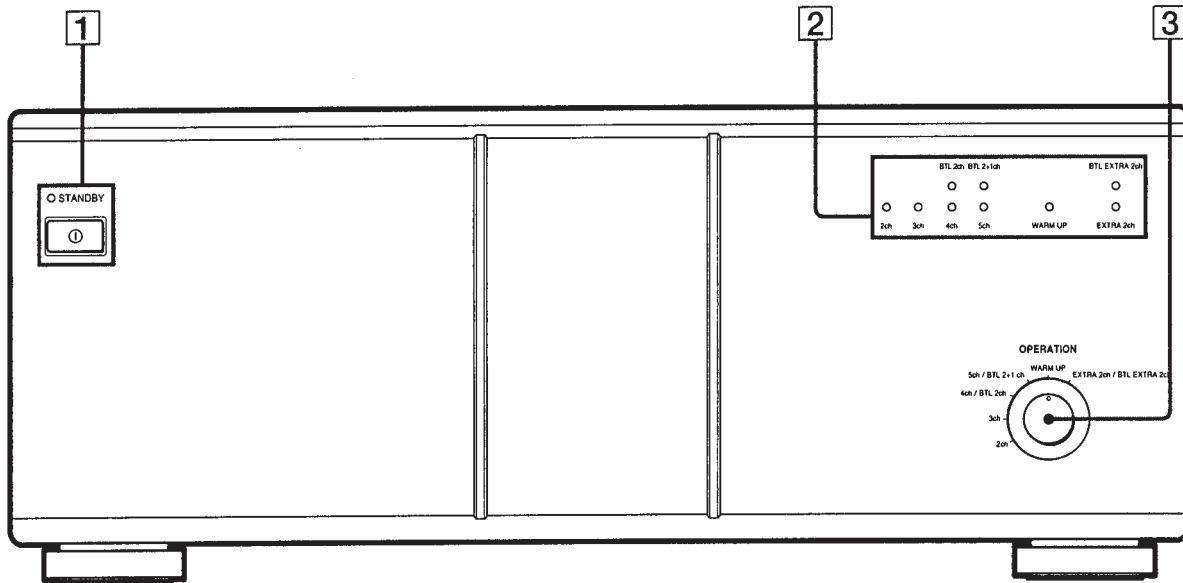
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

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 2 V AC range are suitable. (See Fig. A)



SECTION 2 GENERAL

This section is extracted from instruction manual.



1 ① switch

Press to turn the power amplifier on and off.

STANDBY indicator

Blinks momentarily after ① is pressed to turn the unit on, then goes out to indicate that the unit is ready. If you make Control A1 connections between the power amplifier and the TA-E9000ES AV Control Amplifier, this indicator lights red when control amplifier is set to standby mode.

2 Operation indicators

Light to indicate the operation mode selected with the OPERATION control. Blink if you select a mode that cannot be used.

3 OPERATION control

Turn to select the channels you want to use.

When the OPERATION selector on the rear panel is set to NORMAL

Position	Output Channels
2ch	FRONT (L/R)
3ch	FRONT (L/R) + CENTER
4ch	FRONT (L/R) + REAR (L/R)
5ch	FRONT (L/R) + CENTER + REAR (L/R)
EXTRA 2ch	Signals input to the EXTRA 2ch INPUT jacks are output from the FRONT (L/R) speakers.

When the OPERATION selector on the rear panel is set to BTL

Position	Output Channels
BTL 2ch	Signals input to the FRONT or REAR INPUT jacks are output from the FRONT (L/R) BTL speaker connections.
BTL 2ch + 1ch*	Signals input to the FRONT or REAR INPUT jacks are output from the FRONT (L/R) BTL speaker connections. Signals input to the CENTER INPUT jacks are output from the CENTER SPEAKER jacks.
BTL EXTRA 2ch	Signals input to the EXTRA 2ch INPUT jacks are output from the FRONT (L/R) BTL speaker connections.

WARM UP

Set OPERATION to this position (instead of turning the power off) to keep the circuitry warm when the power amplifier is not being used. This enables you to enjoy excellent sound quality immediately the next time you use the power amplifier.

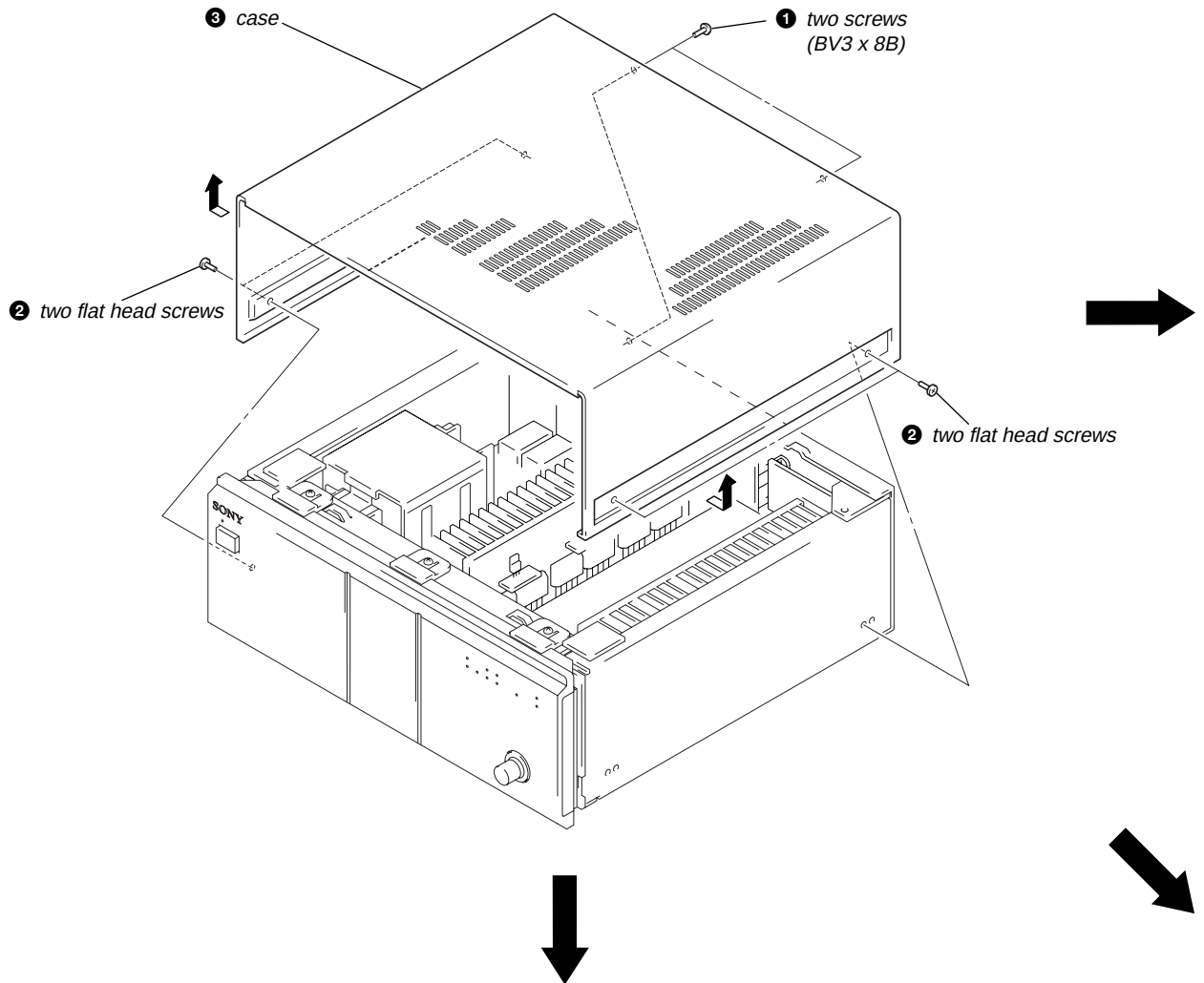
The warm up mode works the same during both NORMAL and BTL operation.

* When OPERATION is in this position and a center speaker is connected, the center speaker gain level drops about 6 dB. When this happens, raise the level of the center speaker on the AV control amplifier (TA-E9000ES, etc.) connected to this amplifier and adjust the volume accordingly.

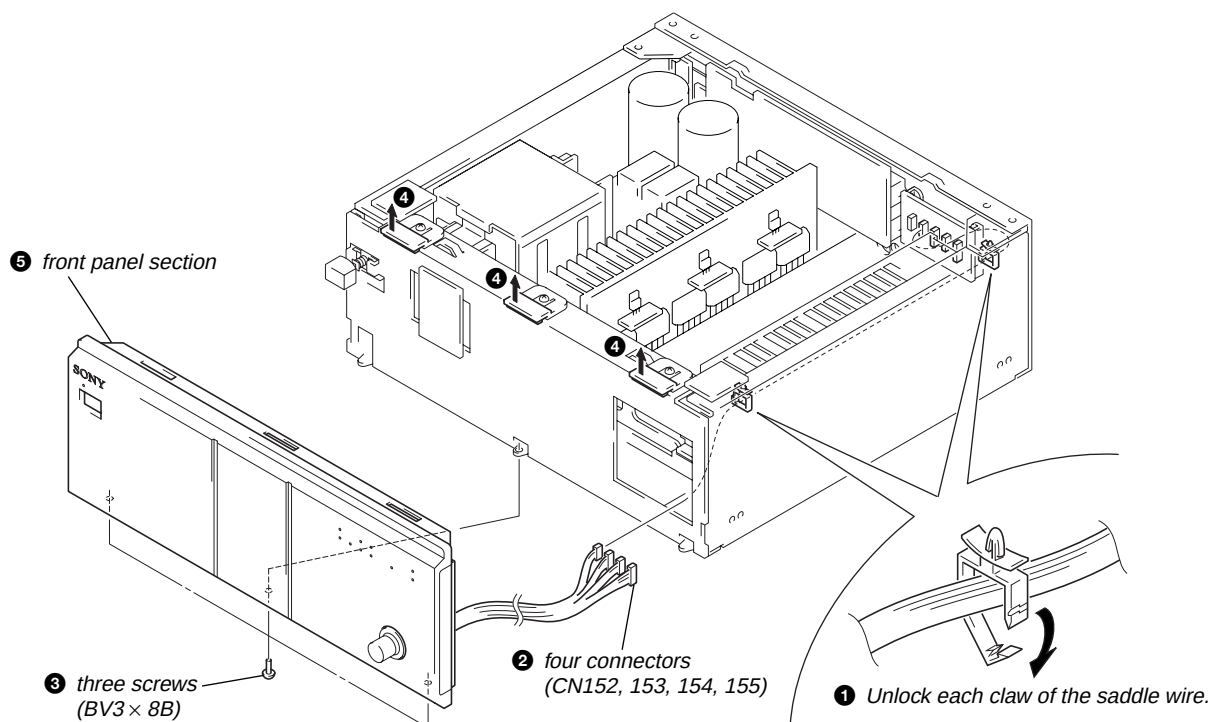
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

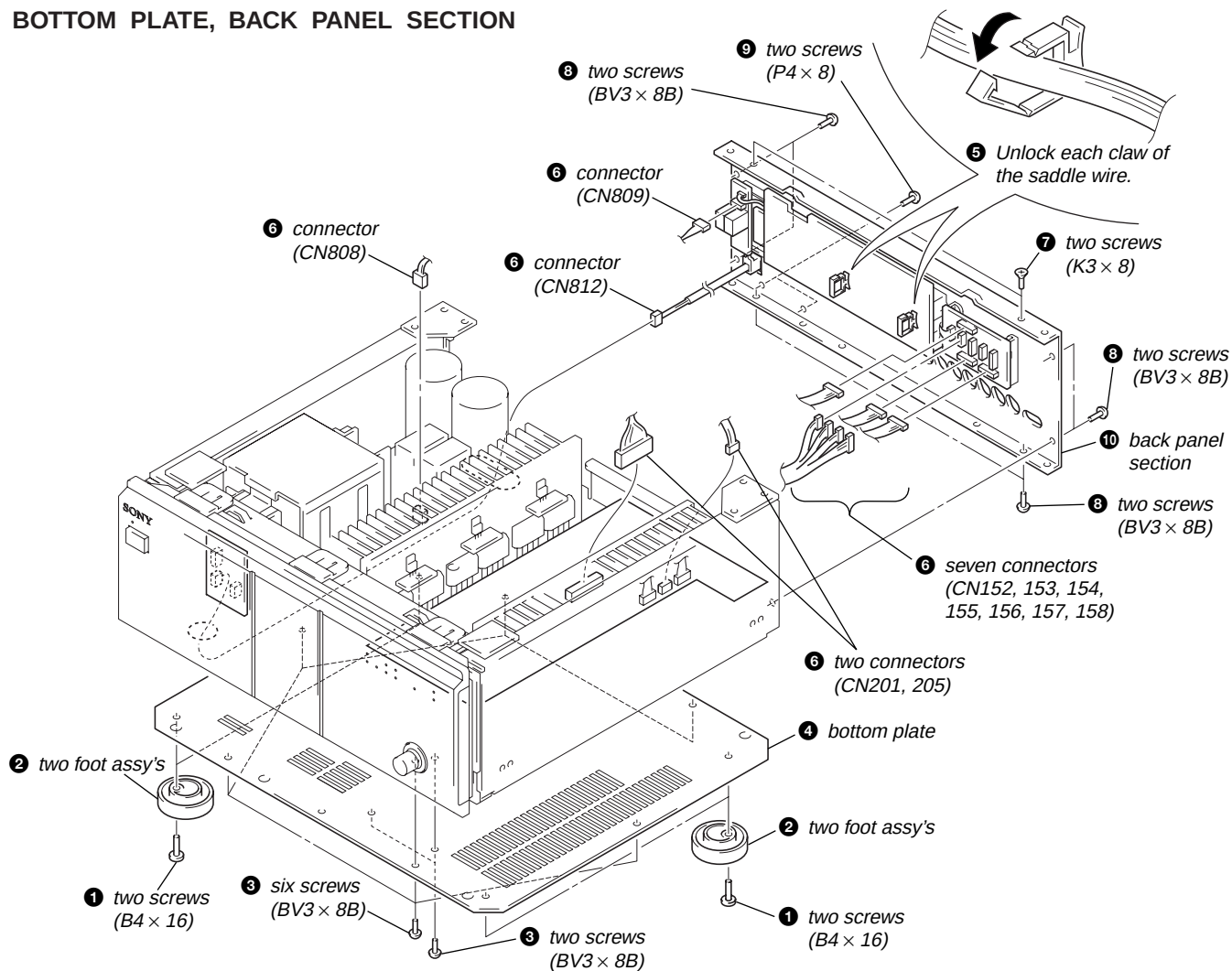
CASE



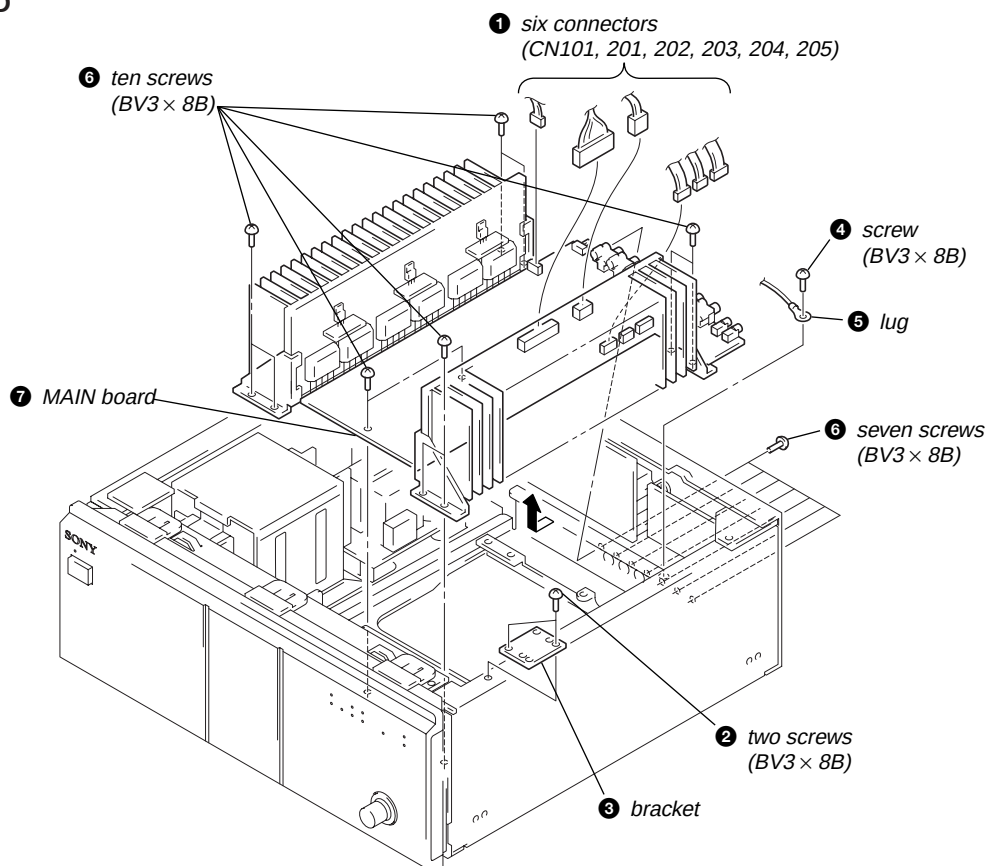
FRONT PANEL SECTION



BOTTOM PLATE, BACK PANEL SECTION



MAIN BOARD



SECTION 4 ELECTRICAL ADJUSTMENTS

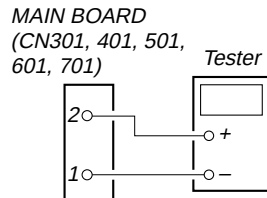
DC BIAS CURRENT Adjustment (with no signal input)

After replacing the power transistors, DC BIAS CURRENT adjustments should be performed.

Setting:

SPEAKER IMPEDANCE switch (S801): 8 Ω MIN (NORMAL USE)

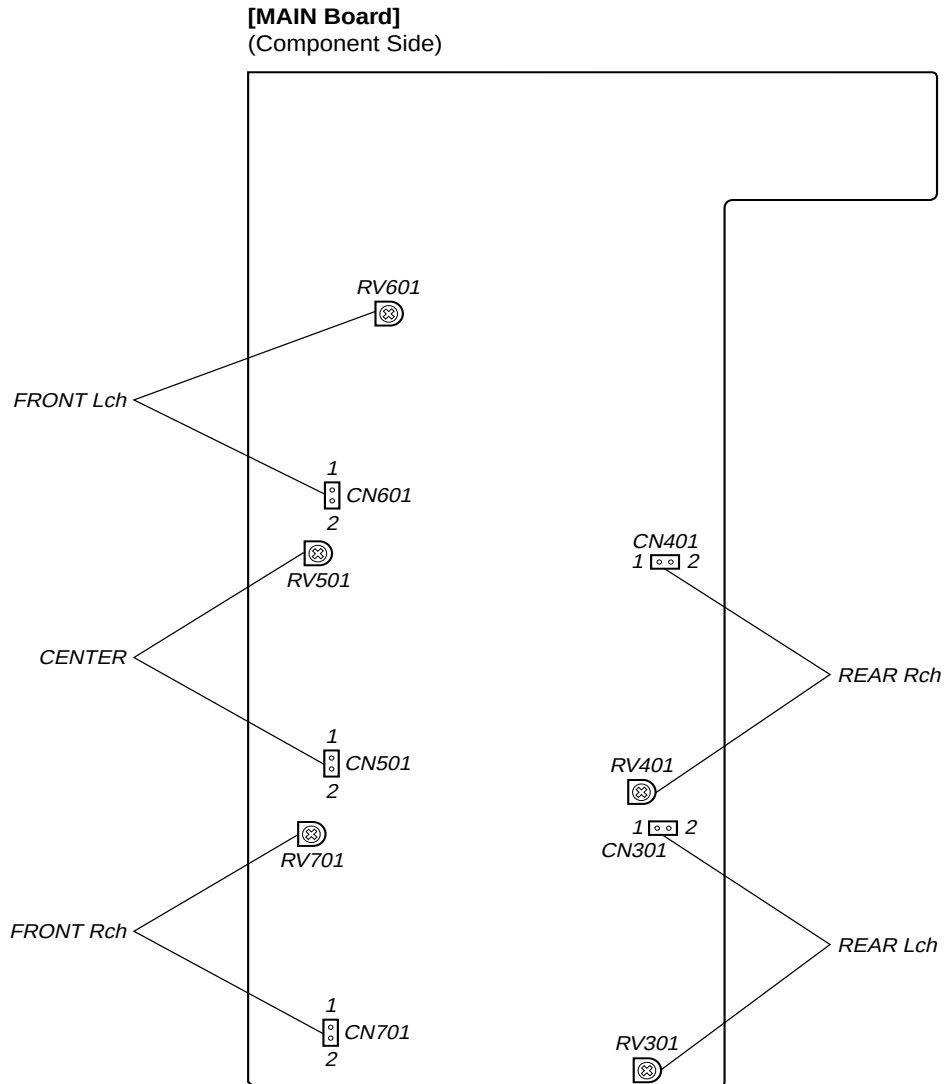
Procedure:



	Connecting point	Adjustment part	Reading on the tester
FRONT Lch	CN601	RV601	11 $\pm$ 1 mA
FRONT Rch	CN701	RV701	11 $\pm$ 1 mA
CENTER	CN501	RV501	11 $\pm$ 1 mA
REAR Lch	CN301	RV301	11 $\pm$ 1 mA
REAR Rch	CN401	RV401	11 $\pm$ 1 mA

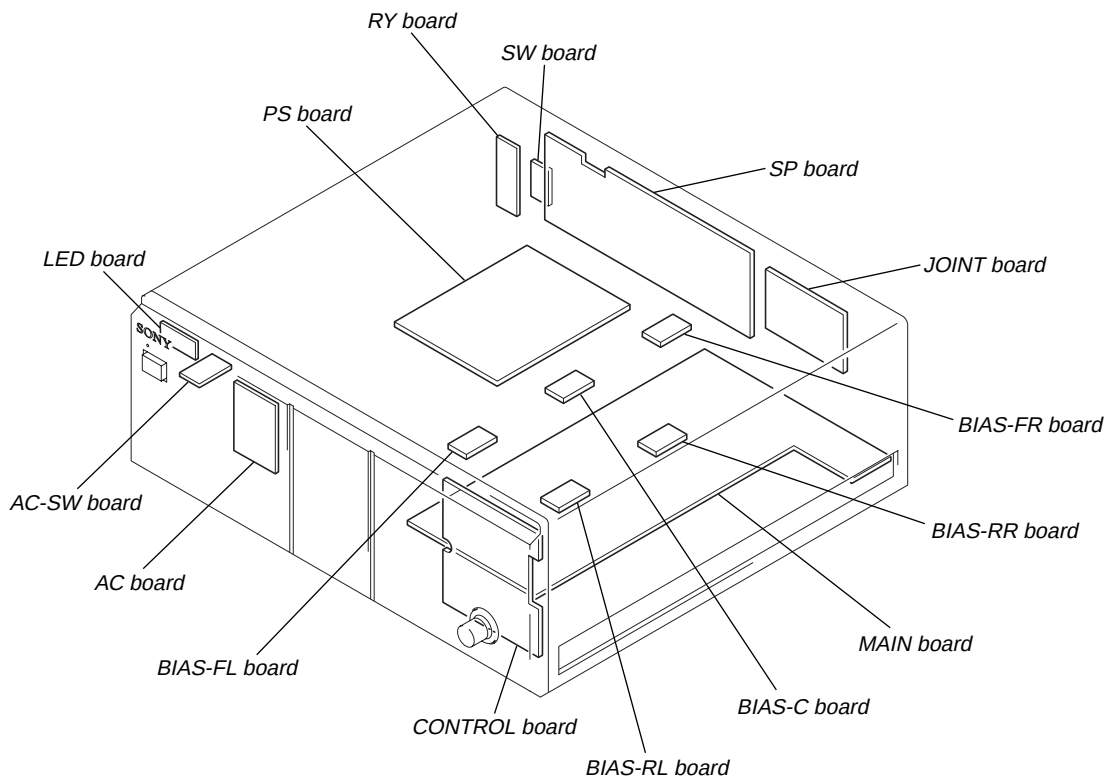
Note: After adjustment, check five connecting points.

Adjustment Location:



SECTION 5 DIAGRAMS

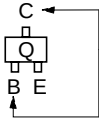
• Circuit Boards Location



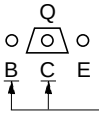
5-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- — : parts extracted from the component side.
- ▨ : Pattern from the side which enables seeing.
- Indication of transistor.



These are omitted.



These are omitted.

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\text{---}\text{---}\text{---}$: fusible resistor.
- $\text{---}\text{---}\text{---}$: panel designation.

Note:

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

Note:

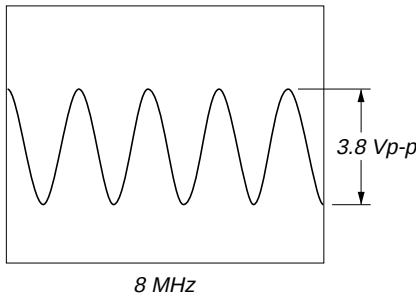
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 $\triangle$ 标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- $\text{B}+$: B+ Line.
- $\text{B}-$: B- Line.
- --- : adjustment for repair.
- Voltages and waveform are dc with respect to ground under no-signal conditions.
- Voltages and waveforms 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 a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$: AUDIO
- Abbreviation
- CND : Canadian model.

• Waveform

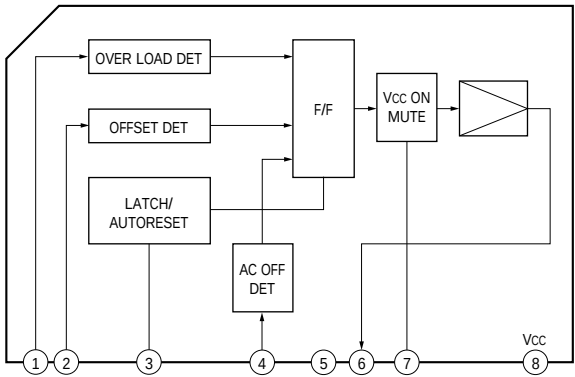
① IC901 @ (X-OUT)



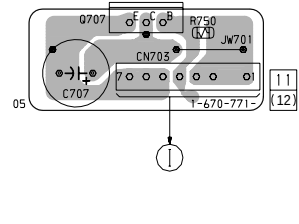
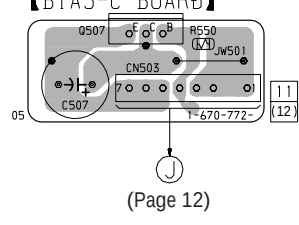
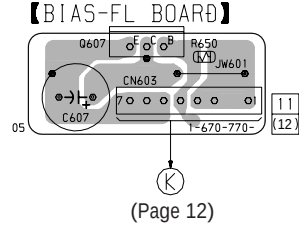
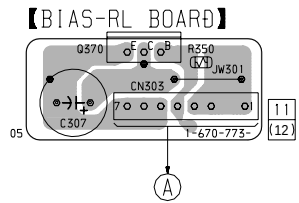
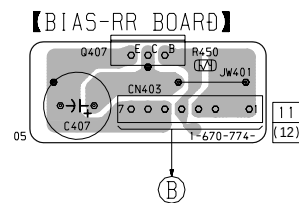
• IC Block Diagram

– MAIN BOARD –

IC201 $\mu\text{PC1237HA}$

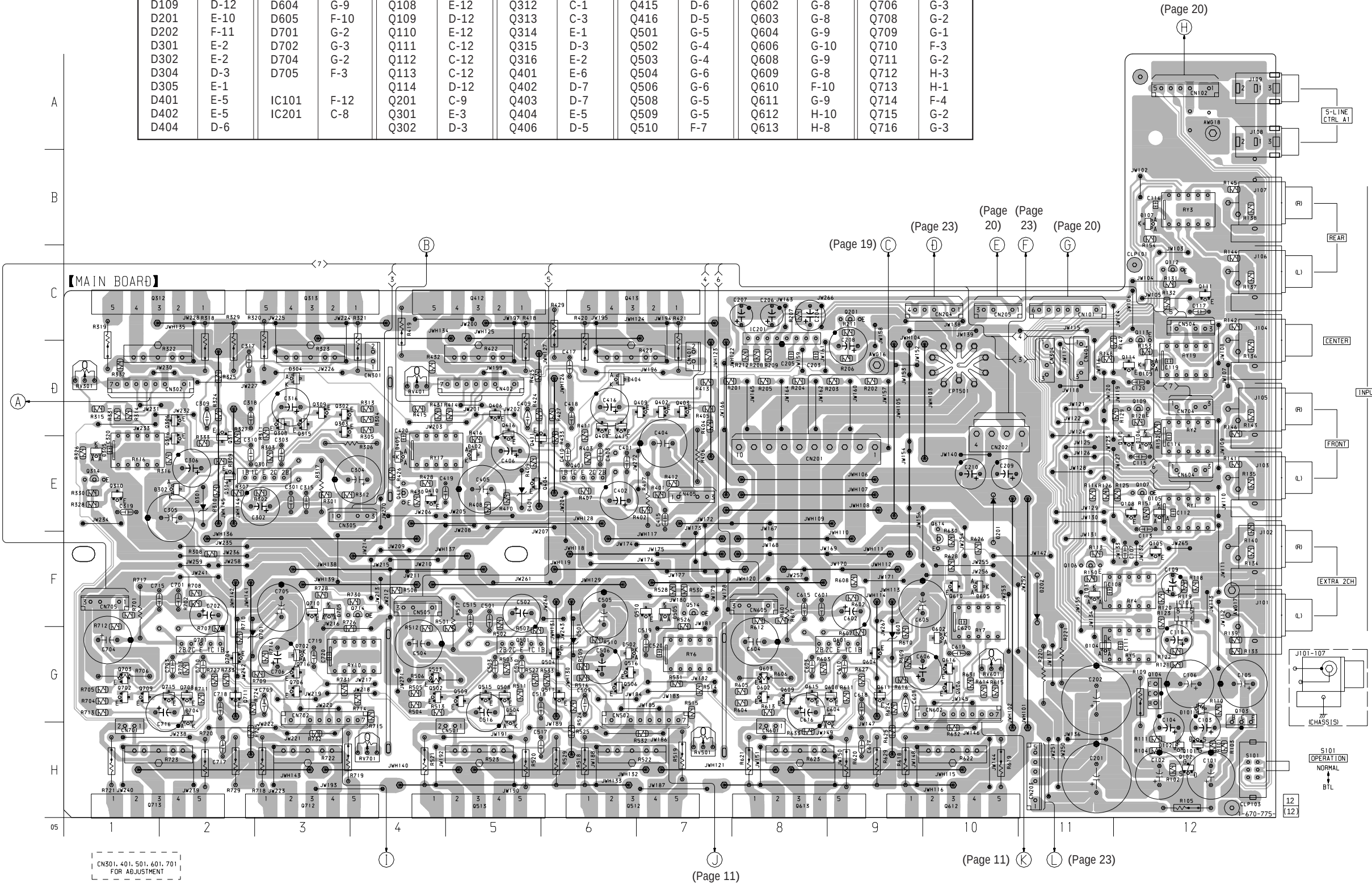


5-2. PRINTED WIRING BOARDS – MAIN Section – • See page 8 for Circuit Boards Location.

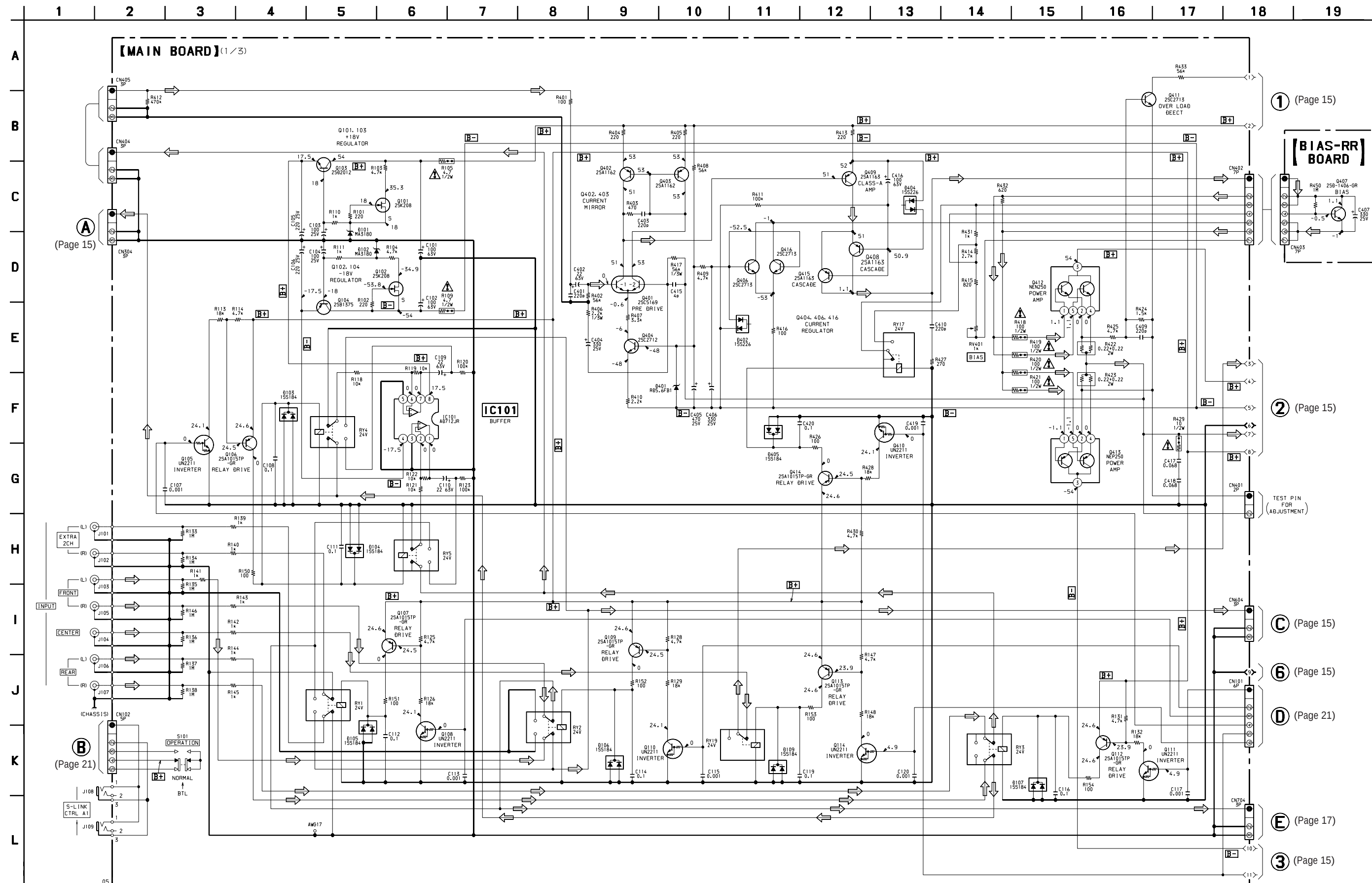


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	G-12	D405	E-4	Q101	H-12	Q303	D-3	Q408	D-6	Q511	G-6	Q614	F-10
D102	H-12	D501	G-6	Q102	H-12	Q304	E-2	Q409	D-7	Q512	H-6	Q615	G-8
D103	F-11	D502	G-6	Q103	G-12	Q306	D-2	Q410	E-4	Q513	H-5	Q616	G-10
D104	G-11	D504	G-5	Q104	G-12	Q308	D-3	Q411	E-5	Q514	F-7	Q701	G-2
D105	E-12	D505	F-7	Q105	F-12	Q309	D-3	Q412	C-5	Q515	G-5	Q702	G-1
D106	E-12	D601	G-9	Q106	F-11	Q310	E-1	Q413	C-6	Q516	G-6	Q703	G-1
D107	B-12	D602	G-10	Q107	E-12	Q311	E-2	Q414	E-4	Q601	G-9	Q704	G-2
D109	D-12	D604	G-9	Q108	E-12	Q312	C-1	Q415	D-6	Q602	G-8	Q706	G-3
D201	E-10	D605	F-10	Q109	D-12	Q313	C-3	Q416	D-5	Q603	G-8	Q708	G-2
D202	F-11	D701	G-2	Q110	E-12	Q314	E-1	Q501	G-5	Q604	G-9	Q709	G-1
D301	E-2	D702	G-3	Q111	C-12	Q315	D-3	Q502	G-4	Q606	G-10	Q710	F-3
D302	E-2	D704	G-2	Q112	C-12	Q316	E-2	Q503	G-4	Q608	G-9	Q711	G-2
D304	D-3	D705	F-3	Q113	C-12	Q401	E-6	Q504	G-6	Q609	G-8	Q712	H-3
D305	E-1			Q114	D-12	Q402	D-7	Q506	G-6	Q610	F-10	Q713	H-1
D401	E-5	IC101	F-12	Q201	C-9	Q403	D-7	Q508	G-5	Q611	G-9	Q714	F-4
D402	E-5	IC201	C-8	Q301	E-3	Q404	E-5	Q509	G-5	Q612	H-10	Q715	G-2
D404	D-6			Q302	D-3	Q406	D-5	Q510	F-7	Q613	H-8	Q716	G-3



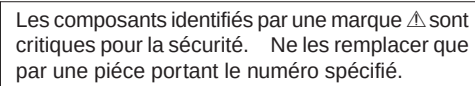
5-3. SCHEMATIC DIAGRAM – MAIN Section (1/3) –



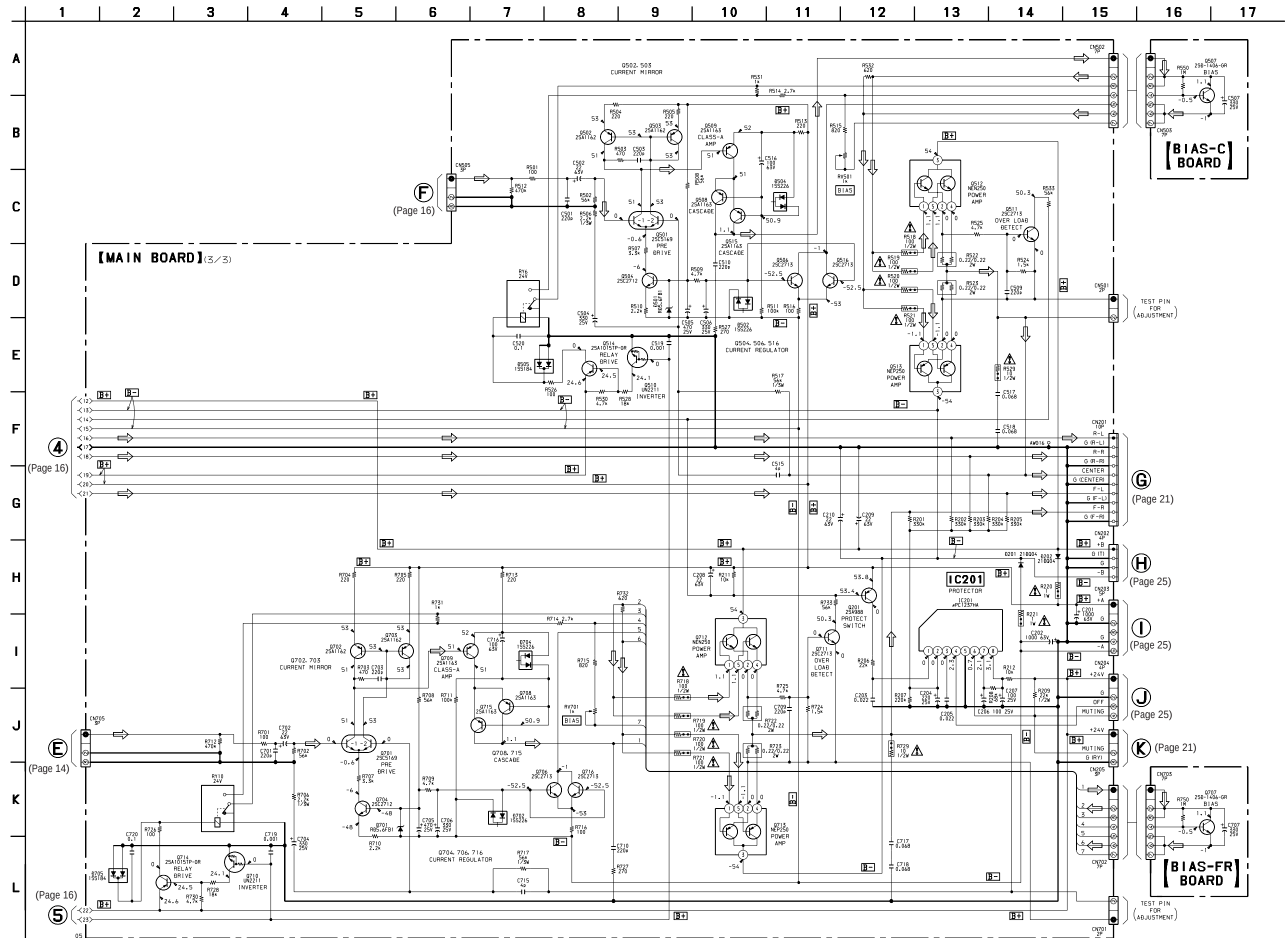
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

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

以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。



5-5. SCHEMATIC DIAGRAM – MAIN Section (3/3) – • See page 10 for IC Block Diagram.



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

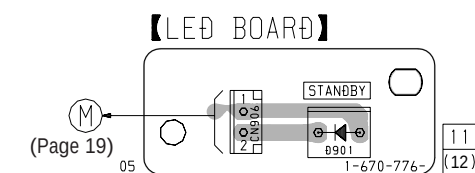
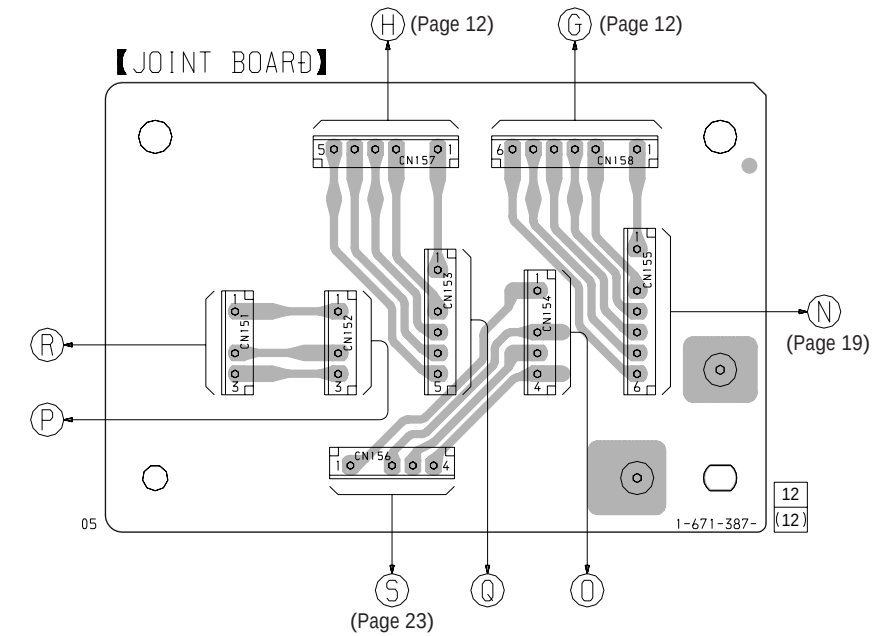
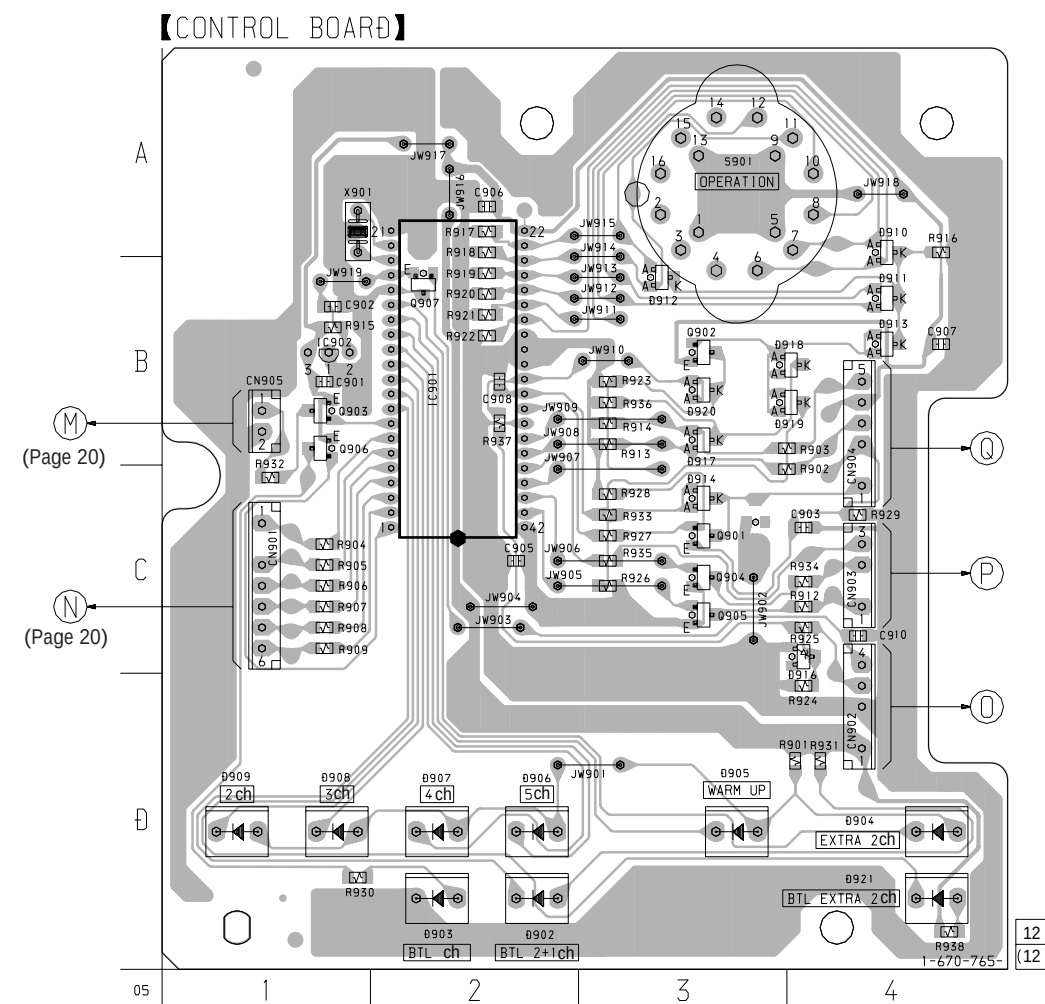
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5-6. PRINTED WIRING BOARDS – CONTROL Section – • See page 8 for Circuit Boards Location.

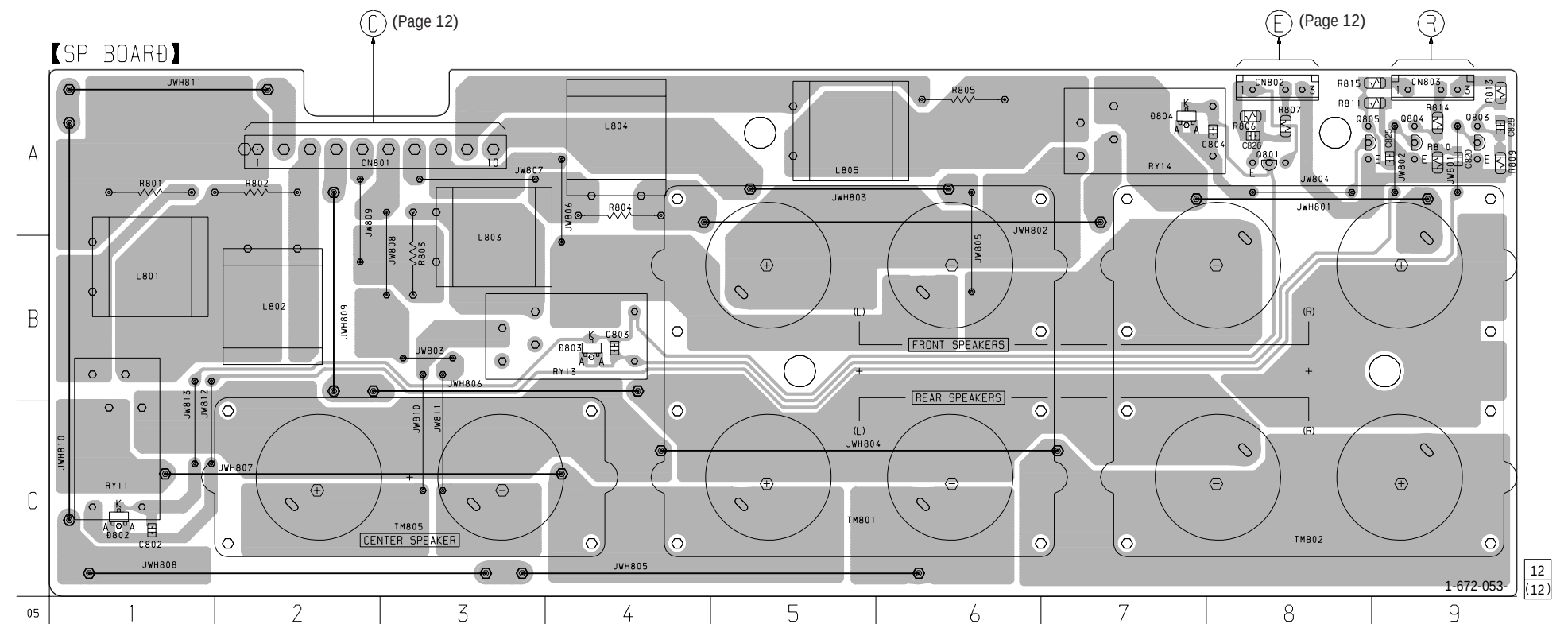
- **Semiconductor Location**

Ref. No.	Location
D902	D-2
D903	D-2
D904	D-4
D905	D-3
D906	D-2
D907	D-2
D908	D-1
D909	D-1
D910	A-4
D911	B-4
D912	B-3
D913	B-4
D914	C-3
D916	C-4
D917	B-3
D918	B-4
D919	B-4
D920	B-3
D921	D-4
IC901	B-2
IC902	B-1
Q901	C-3
Q902	B-3
Q903	B-1
Q904	C-3
Q905	C-3
Q906	B-1
Q907	B-2

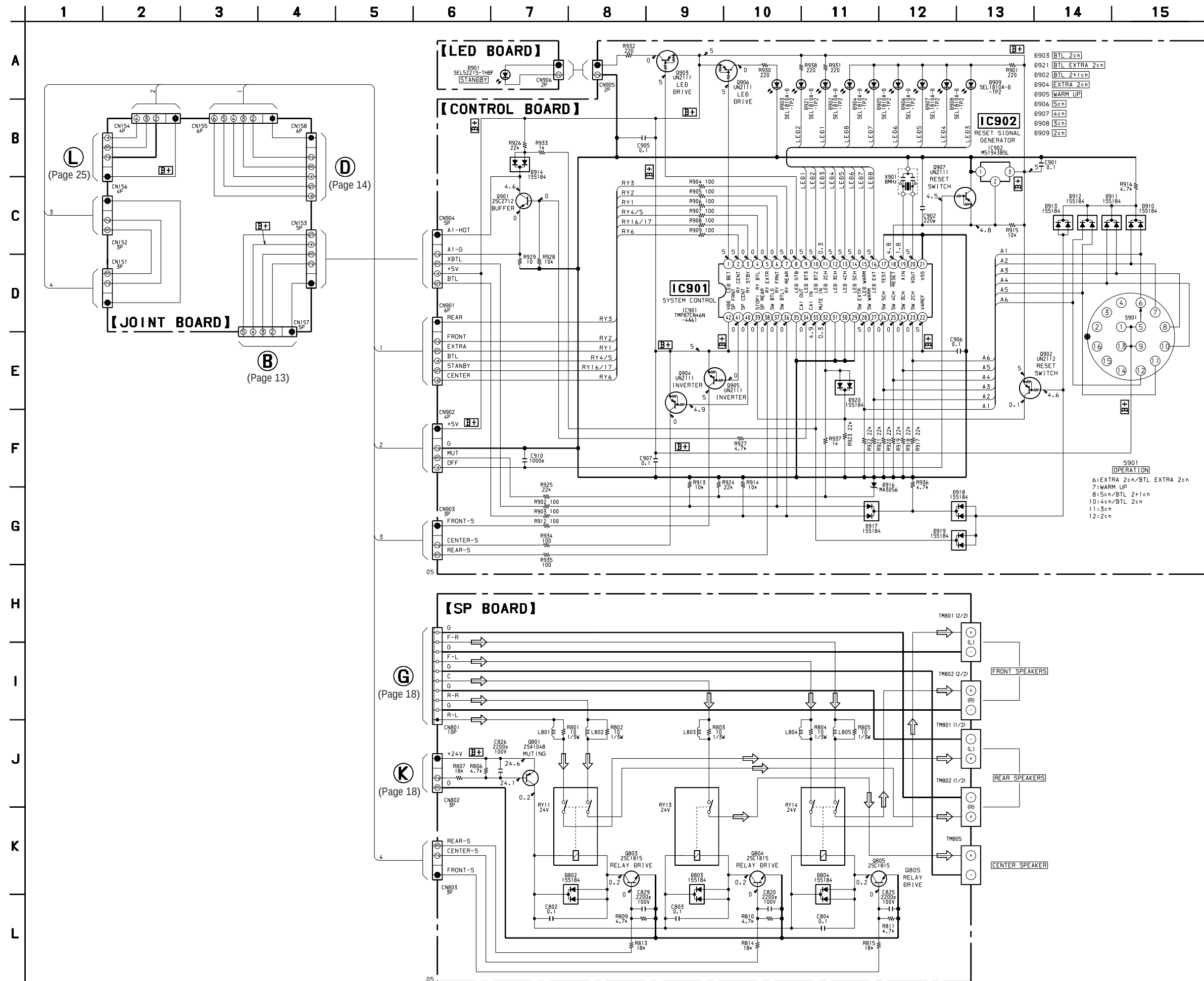


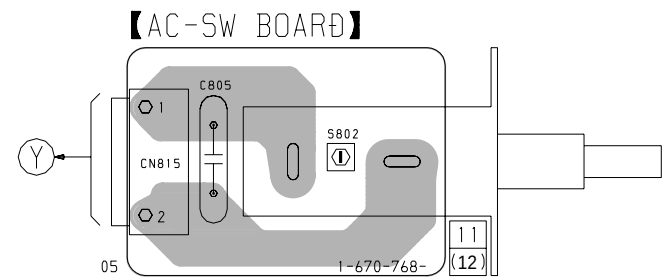
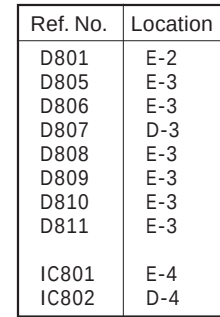
- **Semiconductor Location**

Ref. No.	Location
D802	C-1
D803	B-4
D804	A-7
Q801	A-8
Q803	A-9
Q804	A-9
Q805	A-8

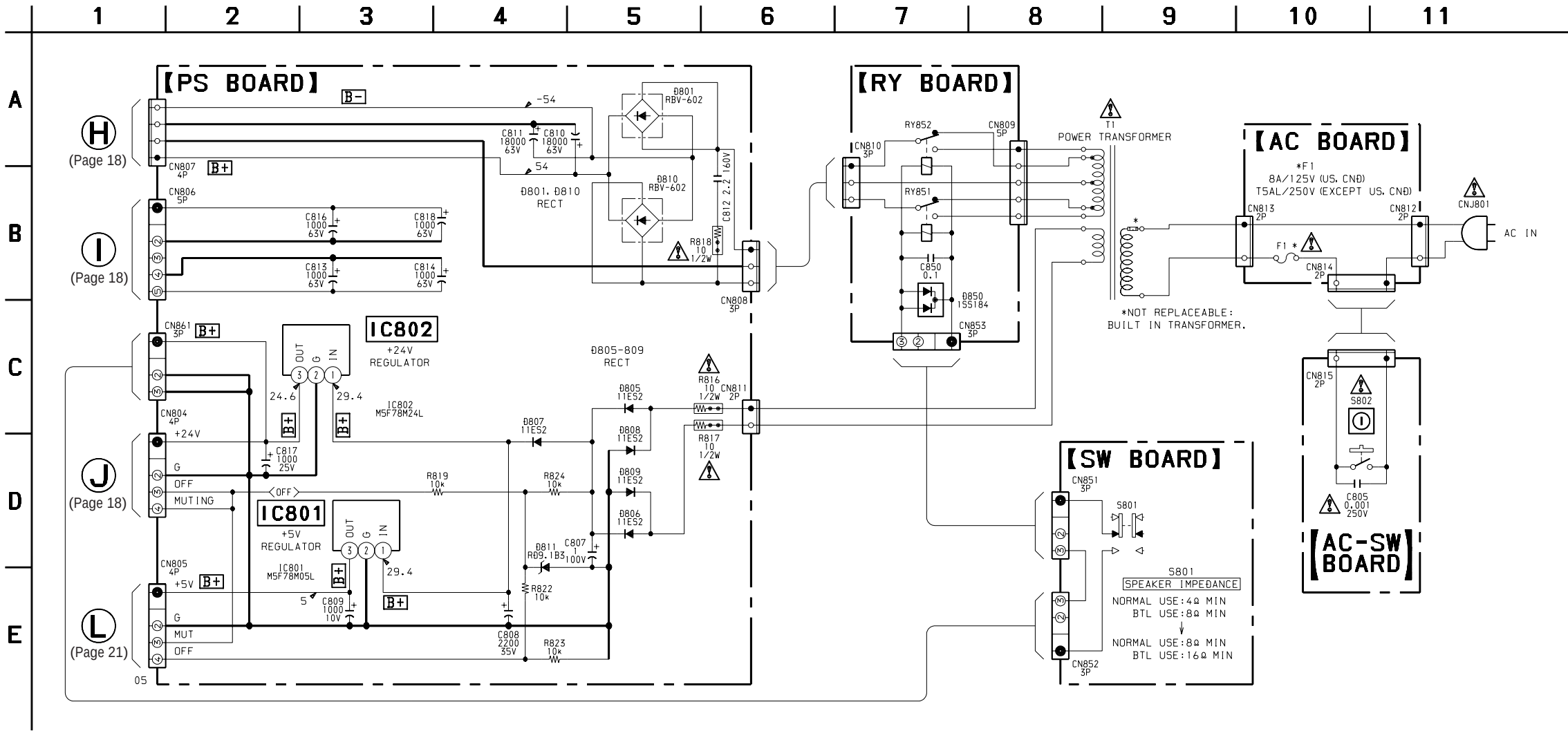


5-7. SCHEMATIC DIAGRAM – CONTROL Section – • See page 10 for Waveform.





5-9. SCHEMATIC DIAGRAM – POWER Section –



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.

以阴影和 $\triangle$ 标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

5-10. IC PIN FUNCTION DESCRIPTION

• CONTROL BOARD IC901 TMP87CN46N-4A61 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	LED BET	O	LED drive signal output of the BTL 2ch LED (D903) “L”: LED on
2	RY CENT	O	Relay drive signal output of the CENTER line input “L”: CENTER on
3	RY STBY	O	Relay drive signal output of the standby on/off “H”: standby mode
4	RY BTL	O	Relay drive signal output of the BTL control “L”: BTL on
5	RY EXTR	O	Relay drive signal output of the EXTRA 2CH line input “L”: EXTRA 2CH on
6	RY FRNT	O	Relay drive signal output of the FRONT line input “L”: FRONT on
7	RY REAR	O	Relay drive signal output of the REAR line input “L”: REAR on
8	LED STB	O	LED drive signal output of the STANDBY LED (D901) “L”: LED on
9	LED BT3	O	LED drive signal output of the BTL 2+1ch LED (D902) “L”: LED on
10	LED BT2	O	LED drive signal output of the BTL EXTRA 2ch LED (D921) “L”: LED on
11	LED 2CH	O	LED drive signal output of the 2ch LED (D909) “L”: LED on
12	LED 3CH	O	LED drive signal output of the 3ch LED (D908) “L”: LED on
13	LED 4CH	O	LED drive signal output of the 4ch LED (D907) “L”: LED on
14	LED 5CH	O	LED drive signal output of the 5ch LED (D906) “L”: LED on
15	LED WARM	O	LED drive signal output of the WARM UP LED (D905) “L”: LED on
16	LED EXT	O	LED drive signal output of the EXTRA 2ch LED (D904) “L”: LED on
17	TEST	I	Test input terminal (fixed at “L”)
18	RESET	I	System reset signal input from the reset signal generator (IC902) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
19	XIN	I	Main system clock input terminal (8 MHz)
20	XOUT	O	Main system clock output terminal (8 MHz)
21	VSS	—	Ground terminal
22	VAREF	I	Reference voltage (+5V) input terminal
23	SW 2CH	I	OPERATION switch (S901) input terminal “H”: 2ch
24	SW 3CH	I	OPERATION switch (S901) input terminal “H”: 3ch
25	SW 4CH	I	OPERATION switch (S901) input terminal “H”: 4ch/BTL 2ch
26	SW 5CH	I	OPERATION switch (S901) input terminal “H”: 5ch/BTL 2+1ch
27	SW WARM	I	OPERATION switch (S901) input terminal “H”: WARM UP
28	SW EXTR	I	OPERATION switch (S901) input terminal “H”: EXTRA 2ch/BTL EXTRA 2ch
29 to 31	—	I	Not used (fixed at “L”)
32	MUTE IN	I	Muting on/off control signal input from the μPC1237HA (IC201)
33	CA1 IN	I	Sircs remote control signal input for the S-link control A1
34	CA1 OUT	O	Sircs remote control signal output for the S-link control A1
35	—	I	Not used (fixed at “L”)
36	SW BTL1	I	OPERATION switch (S101) input terminal “L”: BTL, “H”: NORMAL
37	SW BTL0	I	OPERATION switch (S101) input terminal “L”: NORMAL, “H”: BTL
38	SP REAR	O	Rear speaker on/off relay drive signal output terminal (for protect) “L”: relay on
39	STOP IN	I	Trigger input terminal
40	SP CENT	O	Center speaker on/off relay drive signal output terminal (for protect) “L”: relay on
41	SP FRNT	O	Front speaker on/off relay drive signal output terminal (for protect) “L”: relay on
42	VDD	—	Power supply terminal (+5V)

SECTION 6
EXPLODED VIEWS

以阴影和 △标志来识别的零
部件，在安全方面具有关键
性。因此只能以规定号码的
零部件来更换。

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

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

NOTE:

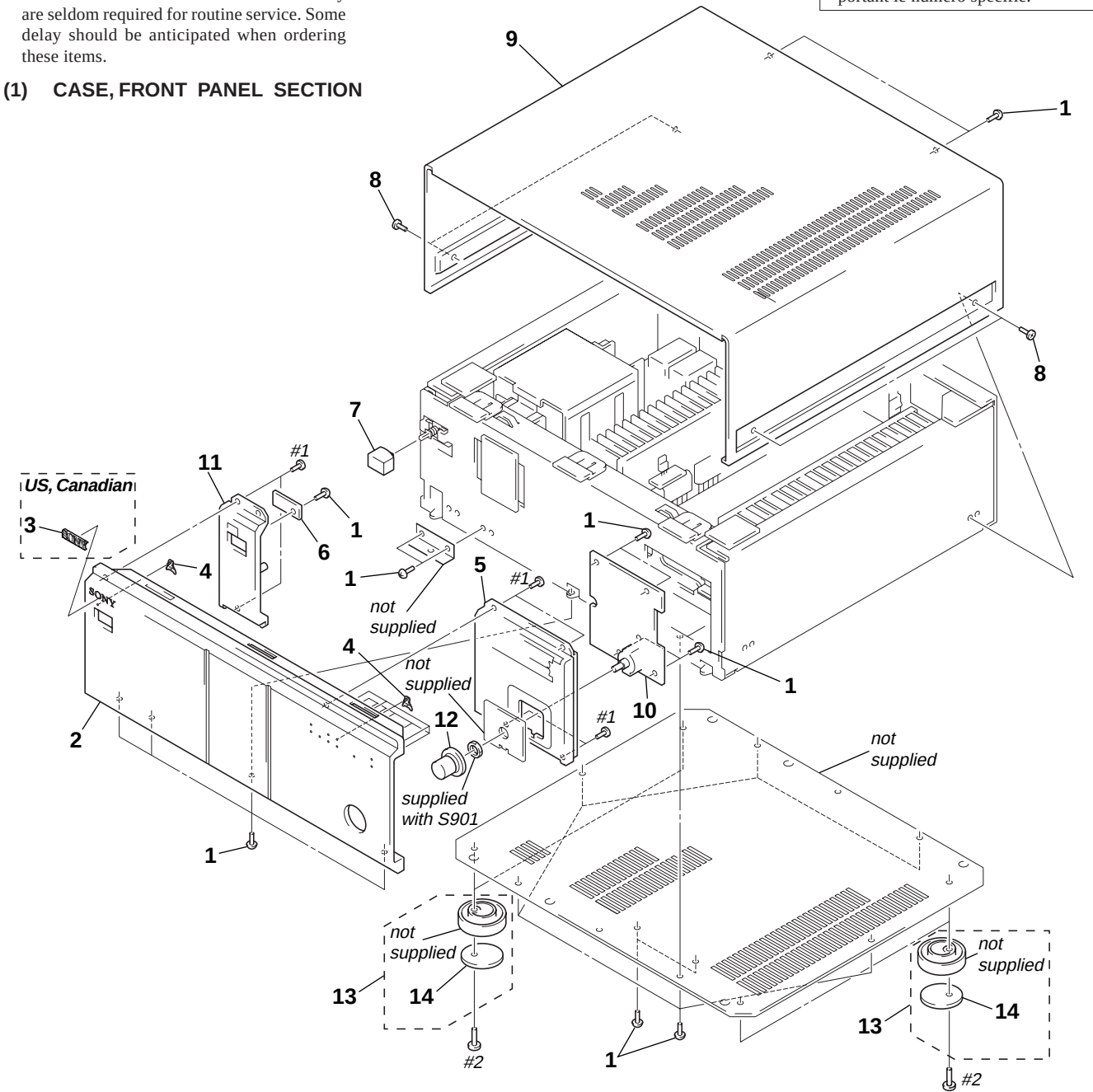
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

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

(1) CASE, FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-974-510-01	SCREW (+BV 3X8 B)		8	4-976-827-01	SCREW, FLAT HEAD (BLACK)	
2	4-211-108-01	PANEL, FRONT (GOLD) (EXCEPT US, Canadian)		8	4-976-827-11	SCREW, FLAT HEAD (SILVER)	
2	4-211-108-11	PANEL, FRONT (BLACK)		* 9	4-211-110-01	CASE (GOLD)	
2	4-211-108-21	PANEL, FRONT (GOLD) (US, Canadian)		* 9	4-211-110-11	CASE (BLACK)	
3	4-942-568-41	EMBLEM (NO.5), SONY (FOR BLACK)		* 10	A-4414-841-A	CONTROL BOARD, COMPLETE	
4	4-211-094-31	INDICATOR (6)		11	4-211-109-01	PLATE (A), ORNAMENTAL (GOLD)	
5	4-211-102-01	PLATE (B), ORNAMENTAL (GOLD)		11	4-211-109-11	PLATE (A), ORNAMENTAL (BLACK)	
5	4-211-102-11	PLATE (B), ORNAMENTAL (BLACK)		12	4-211-104-01	KNOB (DIA. 29) (GOLD)	
* 6	1-670-776-11	LED BOARD		12	4-211-104-11	KNOB (DIA. 29) (BLACK)	
7	X-4950-227-1	BUTTON ASSY, POWER (Ⓢ) (GOLD)		13	X-4950-540-1	FOOT ASSY	
7	X-4950-228-1	BUTTON ASSY, POWER (Ⓢ) (BLACK)		14	4-972-889-01	CUSHION	

[illegible]

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

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

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Ref. No.	Part No.	Description	Remark
*	1-670-770-11	BIAS-RR BOARD *****	
		< CAPACITOR >	
C407	1-119-830-11	ELECT 330uF 20% 25V	
		< TRANSISTOR >	
Q407	8-729-231-60	TRANSISTOR 2SD1406-YGR	
		< RESISTOR >	
R450	1-260-032-11	CARBON MELF 1M 2% 1/8W *****	
*	A-4414-841-A	CONTROL BOARD, COMPLETE *****	
		< CAPACITOR >	
C901	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C902	1-163-001-11	CERAMIC CHIP 220PF 10% 50V	
C905	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C906	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C907	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
C910	1-163-009-11	CERAMIC CHIP 1000PF 10% 50V	
		< CONNECTOR >	
CN901	1-564-510-11	PLUG (MICRO CONNECTOR) 6P	
CN902	1-691-766-21	PLUG (MICRO CONNECTOR) 4P	
CN903	1-691-765-21	PLUG (MICRO CONNECTOR) 3P	
CN904	1-564-506-11	PLUG (MICRO CONNECTOR) 5P	
CN905	1-564-505-11	PLUG, CONNECTOR 2P	
		< DIODE >	
D902	8-719-303-31	LED SEL1810A-D-TP2 (BTL 2+1ch)	
D903	8-719-303-31	LED SEL1810A-D-TP2 (BTL 2ch)	
D904	8-719-303-31	LED SEL1810A-D-TP2 (EXTRA 2ch)	
D905	8-719-303-31	LED SEL1810A-D-TP2 (WARM UP)	
D906	8-719-303-31	LED SEL1810A-D-TP2 (5ch)	
D907	8-719-303-31	LED SEL1810A-D-TP2 (4ch)	
D908	8-719-303-31	LED SEL1810A-D-TP2 (3ch)	
D909	8-719-303-31	LED SEL1810A-D-TP2 (2ch)	
D910	8-719-801-78	DIODE 1SS184	
D911	8-719-801-78	DIODE 1SS184	
D912	8-719-801-78	DIODE 1SS184	
D913	8-719-801-78	DIODE 1SS184	
D914	8-719-801-78	DIODE 1SS184	
D916	8-719-400-46	DIODE MA3056-L	
D917	8-719-801-78	DIODE 1SS184	
D918	8-719-801-78	DIODE 1SS184	
D919	8-719-801-78	DIODE 1SS184	
D920	8-719-801-78	DIODE 1SS184	
D921	8-719-303-31	LED SEL1810A-D-TP2 (BTL EXTRA 2ch)	
		< IC >	
IC901	8-759-563-03	IC TMP87CN46N-4A61	
IC902	8-759-635-63	IC M51943BSL	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q901	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q902	8-729-424-12	TRANSISTOR UN2112	
Q903	8-729-424-08	TRANSISTOR UN2111	
Q904	8-729-424-08	TRANSISTOR UN2111	
Q905	8-729-424-08	TRANSISTOR UN2111	
Q906	8-729-424-08	TRANSISTOR UN2111	
Q907	8-729-424-08	TRANSISTOR UN2111	
		< RESISTOR >	
R901	1-216-037-00	METAL CHIP 330 5% 1/10W	
R902	1-216-025-00	RES,CHIP 100 5% 1/10W	
R903	1-216-025-00	RES,CHIP 100 5% 1/10W	
R904	1-216-025-00	RES,CHIP 100 5% 1/10W	
R905	1-216-025-00	RES,CHIP 100 5% 1/10W	
R906	1-216-025-00	RES,CHIP 100 5% 1/10W	
R907	1-216-025-00	RES,CHIP 100 5% 1/10W	
R908	1-216-025-00	RES,CHIP 100 5% 1/10W	
R909	1-216-025-00	RES,CHIP 100 5% 1/10W	
R912	1-216-025-00	RES,CHIP 100 5% 1/10W	
R913	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R914	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R915	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R916	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
R917	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R918	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R919	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R920	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R921	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R922	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R923	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R924	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R925	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R926	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R927	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
R928	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R929	1-216-001-00	METAL CHIP 10 5% 1/10W	
R930	1-216-037-00	METAL CHIP 330 5% 1/10W	
R931	1-216-037-00	METAL CHIP 330 5% 1/10W	
R932	1-216-037-00	METAL CHIP 330 5% 1/10W	
R933	1-216-049-11	RES,CHIP 1K 5% 1/10W	
R934	1-216-025-00	RES,CHIP 100 5% 1/10W	
R935	1-216-025-00	RES,CHIP 100 5% 1/10W	
R936	1-216-065-00	RES,CHIP 4.7K 5% 1/10W	
R937	1-216-049-11	RES,CHIP 1K 5% 1/10W	
R938	1-216-037-00	METAL CHIP 330 5% 1/10W	
		< SWITCH >	
S901	1-771-470-11	SWITCH, ROTARY (OPERATION)	
		< VIBRATOR >	
X901	1-579-952-21	VIBRATOR, CERAMIC (8MHz) *****	

Ref. No.	Part No.	Description	Remark			
*	1-671-387-11	JOINT BOARD	*****			
		< CONNECTOR >				
CN151	1-691-765-31	PLUG (MICRO CONNECTOR) 3P				
CN152	1-691-765-21	PLUG (MICRO CONNECTOR) 3P				
CN153	1-564-506-11	PLUG (MICRO CONNECTOR) 5P				
CN154	1-691-766-21	PLUG (MICRO CONNECTOR) 4P				
CN155	1-564-510-11	PLUG (MICRO CONNECTOR) 6P				
CN156	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CN157	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
CN158	1-564-510-11	PLUG (MICRO CONNECTOR) 6P				

*	1-670-776-11	LED BOARD	*****			
		< CONNECTOR >				
CN906	1-564-505-11	PLUG, CONNECTOR 2P				
		< DIODE >				
D901	8-719-046-46	LED SEL5221S-TH8F (STANDBY)	*****			

*	A-4414-844-A	MAIN BOARD, COMPLETE (US, CND)				
*	A-4414-846-A	MAIN BOARD, COMPLETE (EXCEPT US, CND)	*****			
		< CAPACITOR >				
C101	1-119-837-11	ELECT	100uF	20%	63V	
C102	1-119-837-11	ELECT	100uF	20%	63V	
C103	1-119-800-11	ELECT	100uF	20%	25V	
C104	1-119-800-11	ELECT	100uF	20%	25V	
C105	1-119-801-21	ELECT	220uF	20%	25V	
C106	1-119-801-21	ELECT	220uF	20%	25V	
C107	1-136-250-11	FILM	0.001uF	5%	100V	
C108	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C109	1-119-834-11	ELECT	22uF	20%	63V	
C110	1-119-834-11	ELECT	22uF	20%	63V	
C111	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C112	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C113	1-136-250-11	FILM	0.001uF	5%	100V	
C114	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C115	1-136-250-11	FILM	0.001uF	5%	100V	
C116	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C117	1-136-250-11	FILM	0.001uF	5%	100V	
C119	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C120	1-136-250-11	FILM	0.001uF	5%	100V	
C201	1-119-841-11	ELECT	1000uF	20%	63V	
C202	1-119-841-11	ELECT	1000uF	20%	63V	
C203	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C204	1-126-024-11	ELECT	220uF	20%	25V	
C205	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C206	1-126-023-11	ELECT	100uF	20%	25V	
C207	1-126-023-11	ELECT	100uF	20%	25V	
C208	1-119-834-11	ELECT	22uF	20%	63V	
C209	1-119-834-11	ELECT	22uF	20%	63V	
C210	1-119-834-11	ELECT	22uF	20%	63V	
C301	1-125-850-21	FILM	220PF	5%	50V	

Ref. No.	Part No.	Description	Remark			
C302	1-119-834-11	ELECT	22uF	20%	63V	
C303	1-125-850-21	FILM	220PF	5%	50V	
C304	1-119-830-11	ELECT	330uF	20%	50V	
C305	1-119-803-11	ELECT	470uF	20%	25V	
C306	1-119-830-11	ELECT	330uF	20%	25V	
C309	1-102-978-00	CERAMIC	220PF	5%	50V	
C310	1-125-850-21	FILM	220PF	5%	50V	
C315	1-125-842-11	FILM	4PF	10%	50V	
C316	1-119-837-11	ELECT	100uF	20%	63V	
C317	1-137-375-11	FILM	0.068uF	5%	50V	
C318	1-137-375-11	FILM	0.068uF	5%	50V	
C319	1-136-250-11	FILM	0.001uF	5%	100V	
C320	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C401	1-125-850-21	FILM	220PF	5%	50V	
C402	1-119-834-11	ELECT	22uF	20%	63V	
C403	1-125-850-21	FILM	220PF	5%	50V	
C404	1-119-830-11	ELECT	330uF	20%	50V	
C405	1-119-803-11	ELECT	470uF	20%	25V	
C406	1-119-830-11	ELECT	330uF	20%	25V	
C409	1-102-978-00	CERAMIC	220PF	5%	50V	
C410	1-125-850-21	FILM	220PF	5%	50V	
C415	1-125-842-11	FILM	4PF	10%	50V	
C416	1-119-837-11	ELECT	100uF	20%	63V	
C417	1-137-375-11	FILM	0.068uF	5%	50V	
C418	1-137-375-11	FILM	0.068uF	5%	50V	
C419	1-136-250-11	FILM	0.001uF	5%	100V	
C420	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C501	1-125-850-21	FILM	220PF	5%	50V	
C502	1-119-834-11	ELECT	22uF	20%	63V	
C503	1-125-850-21	FILM	220PF	5%	50V	
C504	1-119-830-11	ELECT	330uF	20%	50V	
C505	1-119-803-11	ELECT	470uF	20%	25V	
C506	1-119-830-11	ELECT	330uF	20%	25V	
C509	1-102-978-00	CERAMIC	220PF	5%	50V	
C510	1-125-850-21	FILM	220PF	5%	50V	
C515	1-125-842-11	FILM	4PF	10%	50V	
C516	1-119-837-11	ELECT	100uF	20%	63V	
C517	1-137-375-11	FILM	0.068uF	5%	50V	
C518	1-137-375-11	FILM	0.068uF	5%	50V	
C519	1-136-250-11	FILM	0.001uF	5%	100V	
C520	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C601	1-125-850-21	FILM	220PF	5%	50V	
C602	1-119-834-11	ELECT	22uF	20%	63V	
C603	1-125-850-21	FILM	220PF	5%	50V	
C604	1-119-830-11	ELECT	330uF	20%	50V	
C605	1-119-803-11	ELECT	470uF	20%	25V	
C606	1-119-830-11	ELECT	330uF	20%	25V	
C609	1-102-978-00	CERAMIC	220PF	5%	50V	
C610	1-125-850-21	FILM	220PF	5%	50V	
C615	1-125-842-11	FILM	4PF	10%	50V	
C616	1-119-837-11	ELECT	100uF	20%	63V	
C617	1-137-375-11	FILM	0.068uF	5%	50V	
C618	1-137-375-11	FILM	0.068uF	5%	50V	
C619	1-136-250-11	FILM	0.001uF	5%	100V	
C620	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C701	1-125-850-21	FILM	220PF	5%	50V	
C702	1-119-834-11	ELECT	22uF	20%	63V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C703	1-125-850-21	FILM 220PF 5%	50V	D402	8-719-800-76	DIODE 1SS226	
C704	1-119-830-11	ELECT 330uF 20%	50V	D404	8-719-800-76	DIODE 1SS226	
C705	1-119-803-11	ELECT 470uF 20%	25V	D405	8-719-801-78	DIODE 1SS184	
C706	1-119-830-11	ELECT 330uF 20%	25V	D501	8-719-118-62	DIODE RD5.6F-T7B1	
C709	1-102-978-00	CERAMIC 220PF 5%	50V	D502	8-719-800-76	DIODE 1SS226	
C710	1-125-850-21	FILM 220PF 5%	50V	D504	8-719-800-76	DIODE 1SS226	
C715	1-125-842-11	FILM 4PF 10%	50V	D505	8-719-801-78	DIODE 1SS184	
C716	1-119-837-11	ELECT 100uF 20%	63V	D601	8-719-118-62	DIODE RD5.6F-T7B1	
C717	1-137-375-11	FILM 0.068uF 5%	50V	D602	8-719-800-76	DIODE 1SS226	
C718	1-137-375-11	FILM 0.068uF 5%	50V	D604	8-719-800-76	DIODE 1SS226	
C719	1-136-250-11	FILM 0.001uF 5%	100V	D605	8-719-801-78	DIODE 1SS184	
C720	1-115-339-11	CERAMIC CHIP 0.1uF 10%	50V	D701	8-719-118-62	DIODE RD5.6F-T7B1	
< CONNECTOR >				D702	8-719-800-76	DIODE 1SS226	
CN101	1-564-510-11	PLUG (MICRO CONNECTOR) 6P		D704	8-719-800-76	DIODE 1SS226	
CN102	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		D705	8-719-801-78	DIODE 1SS184	
* CN201	1-506-599-11	PIN, CONNECTOR (B10P-VH) 10P		< IC >			
CN202	1-564-241-00	PIN, CONNECTOR 4P		IC101	8-759-296-74	IC AD712JR-REEL	
CN203	1-691-767-11	PLUG (MICRO CONNECTOR) 5P		IC201	8-759-111-68	IC uPC1237HA	
CN204	1-691-766-31	PLUG (MICRO CONNECTOR) 4P		< JACK >			
CN205	1-691-765-21	PLUG (MICRO CONNECTOR) 3P		J101	1-785-144-11	JACK, PIN (INPUT, EXTRA 2CH, L)	
CN301	1-564-505-11	PLUG, CONNECTOR 2P		J102	1-785-144-21	JACK, PIN (INPUT, EXTRA 2CH, R)	
CN302	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		J103	1-785-144-11	JACK, PIN (INPUT, FRONT, L)	
CN304	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		J104	1-779-491-11	JACK, PIN 1P (INPUT, CENTER)	
CN305	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		J105	1-785-144-21	JACK, PIN (INPUT, FRONT, R)	
CN401	1-564-505-11	PLUG, CONNECTOR 2P		J106	1-785-144-11	JACK, PIN (INPUT, REAR, L)	
CN402	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		J107	1-785-144-21	JACK, PIN (INPUT, REAR, R)	
CN404	1-691-765-31	PLUG (MICRO CONNECTOR) 3P		J108	1-563-330-11	JACK (S-LINK, CTRL A1)	
CN405	1-691-765-31	PLUG (MICRO CONNECTOR) 3P		J109	1-563-330-11	JACK (S-LINK, CTRL A1)	
CN501	1-564-505-11	PLUG, CONNECTOR 2P		< TRANSISTOR >			
CN502	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		Q101	8-729-232-69	FET 2SK208GR3	
CN504	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		Q102	8-729-232-69	FET 2SK208GR3	
CN505	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		Q103	8-729-209-15	TRANSISTOR 2SD2012	
CN601	1-564-505-11	PLUG, CONNECTOR 2P		Q104	8-729-141-83	TRANSISTOR 2SB1094-LK	
CN602	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		Q105	8-729-421-22	TRANSISTOR UN2211	
CN604	1-691-765-21	PLUG (MICRO CONNECTOR) 3P		Q106	8-729-201-53	TRANSISTOR 2SA1015-GR	
CN605	1-691-765-21	PLUG (MICRO CONNECTOR) 3P		Q107	8-729-201-53	TRANSISTOR 2SA1015-GR	
CN701	1-564-505-11	PLUG, CONNECTOR 2P		Q108	8-729-421-22	TRANSISTOR UN2211	
CN702	1-691-769-11	PLUG (MICRO CONNECTOR) 7P		Q109	8-729-201-53	TRANSISTOR 2SA1015-GR	
CN704	1-691-765-41	PLUG (MICRO CONNECTOR) 3P		Q110	8-729-421-22	TRANSISTOR UN2211	
CN705	1-691-765-41	PLUG (MICRO CONNECTOR) 3P		Q111	8-729-421-22	TRANSISTOR UN2211	
< DIODE >				Q112	8-729-201-53	TRANSISTOR 2SA1015-GR	
D101	8-719-402-71	DIODE MA3180L-TX		Q113	8-729-201-53	TRANSISTOR 2SA1015-GR	
D102	8-719-402-71	DIODE MA3180L-TX		Q114	8-729-421-22	TRANSISTOR UN2211	
D103	8-719-801-78	DIODE 1SS184		Q201	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D104	8-719-801-78	DIODE 1SS184		Q301	8-729-045-15	TRANSISTOR 2SC5169-FG	
D105	8-719-801-78	DIODE 1SS184		Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
D106	8-719-801-78	DIODE 1SS184		Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
D107	8-719-801-78	DIODE 1SS184		Q304	8-729-230-49	TRANSISTOR 2SC2712-YG	
D109	8-719-801-78	DIODE 1SS184		Q306	8-729-271-31	TRANSISTOR 2SC2713-G	
D201	8-719-975-85	DIODE ERB83-004		Q308	8-729-216-31	TRANSISTOR 2SA1163-G	
D202	8-719-975-85	DIODE ERB83-004		Q309	8-729-216-31	TRANSISTOR 2SA1163-G	
D301	8-719-118-62	DIODE RD5.6F-T7B1		Q310	8-729-421-22	TRANSISTOR UN2211	
D302	8-719-800-76	DIODE 1SS226		Q311	8-729-271-31	TRANSISTOR 2SC2713-G	
D304	8-719-800-76	DIODE 1SS226		Q312	8-749-010-43	TRANSISTOR NEN250	
D305	8-719-801-78	DIODE 1SS184					
D401	8-719-118-62	DIODE RD5.6F-T7B1					

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q313	8-749-010-42	TRANSISTOR NEP250		Q715	8-729-216-31	TRANSISTOR 2SA1163-G	
Q314	8-729-201-53	TRANSISTOR 2SA1015-GR		Q716	8-729-271-31	TRANSISTOR 2SC2713-G	
Q315	8-729-216-31	TRANSISTOR 2SA1163-G		< RESISTOR >			
Q316	8-729-271-31	TRANSISTOR 2SC2713-G		R101	1-259-987-11	CARBON MELF 220 2%	1/8W
Q401	8-729-045-15	TRANSISTOR 2SC5169-FG		R102	1-259-987-11	CARBON MELF 220 2%	1/8W
Q402	8-729-216-22	TRANSISTOR 2SA1162-G		R103	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q403	8-729-216-22	TRANSISTOR 2SA1162-G		R104	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q404	8-729-230-49	TRANSISTOR 2SC2712-YG		△ R105	1-212-950-00	FUSIBLE 4.7 5%	1/2W F
Q406	8-729-271-31	TRANSISTOR 2SC2713-G		△ R109	1-212-950-00	FUSIBLE 4.7 5%	1/2W F
Q408	8-729-216-31	TRANSISTOR 2SA1163-G		R110	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q409	8-729-216-31	TRANSISTOR 2SA1163-G		R111	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q410	8-729-421-22	TRANSISTOR UN2211		R113	1-260-011-11	CARBON MELF 18K 2%	1/8W
Q411	8-729-271-31	TRANSISTOR 2SC2713-G		R114	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q412	8-749-010-43	TRANSISTOR NEN250		R118	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q413	8-749-010-42	TRANSISTOR NEP250		R119	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q414	8-729-201-53	TRANSISTOR 2SA1015-GR		R120	1-260-020-11	CARBON MELF 100K 2%	1/8W
Q415	8-729-216-31	TRANSISTOR 2SA1163-G		R121	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q416	8-729-271-31	TRANSISTOR 2SC2713-G		R122	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q501	8-729-045-15	TRANSISTOR 2SC5169-FG		R123	1-260-020-11	CARBON MELF 100K 2%	1/8W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R125	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q503	8-729-216-22	TRANSISTOR 2SA1162-G		R126	1-260-011-11	CARBON MELF 18K 2%	1/8W
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG		R128	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q506	8-729-271-31	TRANSISTOR 2SC2713-G		R129	1-260-011-11	CARBON MELF 18K 2%	1/8W
Q508	8-729-216-31	TRANSISTOR 2SA1163-G		R131	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q509	8-729-216-31	TRANSISTOR 2SA1163-G		R132	1-260-011-11	CARBON MELF 18K 2%	1/8W
Q510	8-729-421-22	TRANSISTOR UN2211		R133	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q511	8-729-271-31	TRANSISTOR 2SC2713-G		R134	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q512	8-749-010-43	TRANSISTOR NEN250		R135	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q513	8-749-010-42	TRANSISTOR NEP250		R136	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q514	8-729-201-53	TRANSISTOR 2SA1015-GR		R137	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q515	8-729-216-31	TRANSISTOR 2SA1163-G		R138	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q516	8-729-271-31	TRANSISTOR 2SC2713-G		R139	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q601	8-729-045-15	TRANSISTOR 2SC5169-FG		R140	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q602	8-729-216-22	TRANSISTOR 2SA1162-G		R141	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q603	8-729-216-22	TRANSISTOR 2SA1162-G		R142	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q604	8-729-230-49	TRANSISTOR 2SC2712-YG		R143	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q606	8-729-271-31	TRANSISTOR 2SC2713-G		R144	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q608	8-729-216-31	TRANSISTOR 2SA1163-G		R145	1-259-995-11	CARBON MELF 1K 2%	1/8W
Q609	8-729-216-31	TRANSISTOR 2SA1163-G		R146	1-260-032-11	CARBON MELF 1M 2%	1/8W
Q610	8-729-421-22	TRANSISTOR UN2211		R147	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
Q611	8-729-271-31	TRANSISTOR 2SC2713-G		R148	1-260-011-11	CARBON MELF 18K 2%	1/8W
Q612	8-749-010-43	TRANSISTOR NEN250		R150	1-259-983-11	CARBON MELF 100 2%	1/8W
Q613	8-749-010-42	TRANSISTOR NEP250		R151	1-259-983-11	CARBON MELF 100 2%	1/8W
Q614	8-729-201-53	TRANSISTOR 2SA1015-GR		R152	1-259-983-11	CARBON MELF 100 2%	1/8W
Q615	8-729-216-31	TRANSISTOR 2SA1163-G		R153	1-259-983-11	CARBON MELF 100 2%	1/8W
Q616	8-729-271-31	TRANSISTOR 2SC2713-G		R154	1-259-983-11	CARBON MELF 100 2%	1/8W
Q701	8-729-045-15	TRANSISTOR 2SC5169-FG		R201	1-260-026-11	CARBON MELF 330K 2%	1/8W
Q702	8-729-216-22	TRANSISTOR 2SA1162-G		R202	1-260-026-11	CARBON MELF 330K 2%	1/8W
Q703	8-729-216-22	TRANSISTOR 2SA1162-G		R203	1-260-026-11	CARBON MELF 330K 2%	1/8W
Q704	8-729-230-49	TRANSISTOR 2SC2712-YG		R204	1-260-026-11	CARBON MELF 330K 2%	1/8W
Q706	8-729-271-31	TRANSISTOR 2SC2713-G		R205	1-260-026-11	CARBON MELF 330K 2%	1/8W
Q708	8-729-216-31	TRANSISTOR 2SA1163-G		R206	1-260-012-11	CARBON MELF 22K 2%	1/8W
Q709	8-729-216-31	TRANSISTOR 2SA1163-G		R207	1-216-254-00	CARBON MELF 220K 2%	1/8W
Q710	8-729-421-22	TRANSISTOR UN2211		R208	1-260-018-11	CARBON MELF 68K 2%	1/8W
Q711	8-729-271-31	TRANSISTOR 2SC2713-G		R209	1-260-012-11	CARBON MELF 22K 2%	1/8W
Q712	8-749-010-43	TRANSISTOR NEN250		R211	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q713	8-749-010-42	TRANSISTOR NEP250		R212	1-260-008-11	CARBON MELF 10K 2%	1/8W
Q714	8-729-201-53	TRANSISTOR 2SA1015-GR					

以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

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Les composants identifiés par une marque △ 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
△ R220	1-217-469-00	RES, FUSE	1	5%	1W F	R423	1-234-145-11	ENCAPSULATED COMPONENT			
△ R221	1-217-469-00	RES, FUSE	1	5%	1W F	R424	1-259-997-11	CARBON MELF	1.5K	2%	1/8W
R301	1-259-983-11	CARBON MELF	100	2%	1/8W	R425	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R302	1-260-017-11	CARBON MELF	56K	2%	1/8W	R426	1-259-983-11	CARBON MELF	100	2%	1/8W
R303	1-259-991-11	CARBON MELF	470	2%	1/8W	R427	1-259-988-11	CARBON MELF	270	2%	1/8W
R304	1-259-987-11	CARBON MELF	220	2%	1/8W	R428	1-260-011-11	CARBON MELF	18K	2%	1/8W
R305	1-259-987-11	CARBON MELF	220	2%	1/8W	△ R429	1-212-958-00	FUSIBLE	10	5%	1/2W F
R306	1-249-218-11	CARBON	2.2K	5%	1/3W	R430	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R307	1-260-002-11	CARBON MELF	3.3K	2%	1/8W	R431	1-259-995-11	CARBON MELF	1K	2%	1/8W
R308	1-260-017-11	CARBON MELF	56K	2%	1/8W	R432	1-259-920-11	CARBON MELF	620	2%	1/8W
R309	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	R433	1-260-017-11	CARBON MELF	56K	2%	1/8W
R310	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	R501	1-259-983-11	CARBON MELF	100	2%	1/8W
R311	1-260-020-11	CARBON MELF	100K	2%	1/8W	R502	1-260-017-11	CARBON MELF	56K	2%	1/8W
R312	1-260-028-11	CARBON MELF	470K	5%	1/8W	R503	1-259-991-11	CARBON MELF	470	2%	1/8W
R313	1-259-987-11	CARBON MELF	220	2%	1/8W	R504	1-259-987-11	CARBON MELF	220	2%	1/8W
R314	1-260-001-11	CARBON MELF	2.7K	2%	1/8W	R505	1-259-987-11	CARBON MELF	220	2%	1/8W
R315	1-259-994-11	CARBON MELF	820	2%	1/8W	R506	1-249-218-11	CARBON	2.2K	5%	1/3W
R316	1-259-983-11	CARBON MELF	100	2%	1/8W	R507	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R317	1-249-493-11	CARBON	56K	5%	1/3W	R508	1-260-017-11	CARBON MELF	56K	2%	1/8W
△ R318	1-212-982-00	FUSIBLE	100	5%	1/2W F	R509	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
△ R319	1-212-982-00	FUSIBLE	100	5%	1/2W F	R510	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
△ R320	1-212-982-00	FUSIBLE	100	5%	1/2W F	R511	1-260-020-11	CARBON MELF	100K	2%	1/8W
△ R321	1-212-982-00	FUSIBLE	100	5%	1/2W F	R512	1-260-028-11	CARBON MELF	470K	5%	1/8W
R322	1-234-145-11	ENCAPSULATED COMPONENT				R513	1-259-987-11	CARBON MELF	220	2%	1/8W
R323	1-234-145-11	ENCAPSULATED COMPONENT				R514	1-260-001-11	CARBON MELF	2.7K	2%	1/8W
R324	1-259-997-11	CARBON MELF	1.5K	2%	1/8W	R515	1-259-994-11	CARBON MELF	820	2%	1/8W
R325	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	R516	1-259-983-11	CARBON MELF	100	2%	1/8W
R326	1-259-983-11	CARBON MELF	100	2%	1/8W	R517	1-249-493-11	CARBON	56K	5%	1/3W
R327	1-259-988-11	CARBON MELF	270	2%	1/8W	△ R518	1-212-982-00	FUSIBLE	100	5%	1/2W F
R328	1-260-011-11	CARBON MELF	18K	2%	1/8W	△ R519	1-212-982-00	FUSIBLE	100	5%	1/2W F
△ R329	1-212-958-00	FUSIBLE	10	5%	1/2W F	△ R520	1-212-982-00	FUSIBLE	100	5%	1/2W F
R330	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	△ R521	1-212-982-00	FUSIBLE	100	5%	1/2W F
R331	1-259-995-11	CARBON MELF	1K	2%	1/8W	R522	1-234-145-11	ENCAPSULATED COMPONENT			
R332	1-259-920-11	CARBON MELF	620	2%	1/8W	R523	1-234-145-11	ENCAPSULATED COMPONENT			
R333	1-260-017-11	CARBON MELF	56K	2%	1/8W	R524	1-259-997-11	CARBON MELF	1.5K	2%	1/8W
R401	1-259-983-11	CARBON MELF	100	2%	1/8W	R525	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R402	1-260-017-11	CARBON MELF	56K	2%	1/8W	R526	1-259-983-11	CARBON MELF	100	2%	1/8W
R403	1-259-991-11	CARBON MELF	470	2%	1/8W	R527	1-259-988-11	CARBON MELF	270	2%	1/8W
R404	1-259-987-11	CARBON MELF	220	2%	1/8W	R528	1-260-011-11	CARBON MELF	18K	2%	1/8W
R405	1-259-987-11	CARBON MELF	220	2%	1/8W	△ R529	1-212-958-00	FUSIBLE	10	5%	1/2W F
R406	1-249-218-11	CARBON	2.2K	5%	1/3W	R530	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
R407	1-260-002-11	CARBON MELF	3.3K	2%	1/8W	R531	1-259-995-11	CARBON MELF	1K	2%	1/8W
R408	1-260-017-11	CARBON MELF	56K	2%	1/8W	R532	1-259-920-11	CARBON MELF	620	2%	1/8W
R409	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	R533	1-260-017-11	CARBON MELF	56K	2%	1/8W
R410	1-259-999-11	CARBON MELF	2.2K	2%	1/8W	R601	1-259-983-11	CARBON MELF	100	2%	1/8W
R411	1-260-020-11	CARBON MELF	100K	2%	1/8W	R602	1-260-017-11	CARBON MELF	56K	2%	1/8W
R412	1-260-028-11	CARBON MELF	470K	5%	1/8W	R603	1-259-991-11	CARBON MELF	470	2%	1/8W
R413	1-259-987-11	CARBON MELF	220	2%	1/8W	R604	1-259-987-11	CARBON MELF	220	2%	1/8W
R414	1-260-001-11	CARBON MELF	2.7K	2%	1/8W	R605	1-259-987-11	CARBON MELF	220	2%	1/8W
R415	1-259-994-11	CARBON MELF	820	2%	1/8W	R606	1-249-218-11	CARBON	2.2K	5%	1/3W
R416	1-259-983-11	CARBON MELF	100	2%	1/8W	R607	1-260-002-11	CARBON MELF	3.3K	2%	1/8W
R417	1-249-493-11	CARBON	56K	5%	1/3W	R608	1-260-017-11	CARBON MELF	56K	2%	1/8W
△ R418	1-212-982-00	FUSIBLE	100	5%	1/2W F	R609	1-260-004-11	CARBON MELF	4.7K	2%	1/8W
△ R419	1-212-982-00	FUSIBLE	100	5%	1/2W F	R610	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
△ R420	1-212-982-00	FUSIBLE	100	5%	1/2W F	R611	1-260-020-11	CARBON MELF	100K	2%	1/8W
△ R421	1-212-982-00	FUSIBLE	100	5%	1/2W F	R612	1-260-028-11	CARBON MELF	470K	5%	1/8W
R422	1-234-145-11	ENCAPSULATED COMPONENT				R613	1-259-987-11	CARBON MELF	220	2%	1/8W
						R614	1-260-001-11	CARBON MELF	2.7K	2%	1/8W

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Ref. No.	Part No.	Description	Remark
R615	1-259-994-11	CARBON MELF 820 2%	1/8W
R616	1-259-983-11	CARBON MELF 100 2%	1/8W
R617	1-249-493-11	CARBON 56K 5%	1/3W
△ R618	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R619	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R620	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R621	1-212-982-00	FUSIBLE 100 5%	1/2W F
R622	1-234-145-11	ENCAPSULATED COMPONENT	
R623	1-234-145-11	ENCAPSULATED COMPONENT	
R624	1-259-997-11	CARBON MELF 1.5K 2%	1/8W
R625	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
R626	1-259-983-11	CARBON MELF 100 2%	1/8W
R627	1-259-988-11	CARBON MELF 270 2%	1/8W
R628	1-260-011-11	CARBON MELF 18K 2%	1/8W
△ R629	1-212-958-00	FUSIBLE 10 5%	1/2W F
R630	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
R631	1-259-995-11	CARBON MELF 1K 2%	1/8W
R632	1-259-920-11	CARBON MELF 620 2%	1/8W
R633	1-260-017-11	CARBON MELF 56K 2%	1/8W
R701	1-259-983-11	CARBON MELF 100 2%	1/8W
R702	1-260-017-11	CARBON MELF 56K 2%	1/8W
R703	1-259-991-11	CARBON MELF 470 2%	1/8W
R704	1-259-987-11	CARBON MELF 220 2%	1/8W
R705	1-259-987-11	CARBON MELF 220 2%	1/8W
R706	1-249-218-11	CARBON 2.2K 5%	1/3W
R707	1-260-002-11	CARBON MELF 3.3K 2%	1/8W
R708	1-260-017-11	CARBON MELF 56K 2%	1/8W
R709	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
R710	1-259-999-11	CARBON MELF 2.2K 2%	1/8W
R711	1-260-020-11	CARBON MELF 100K 2%	1/8W
R712	1-260-028-11	CARBON MELF 470K 5%	1/8W
R713	1-259-987-11	CARBON MELF 220 2%	1/8W
R714	1-260-001-11	CARBON MELF 2.7K 2%	1/8W
R715	1-259-994-11	CARBON MELF 820 2%	1/8W
R716	1-259-983-11	CARBON MELF 100 2%	1/8W
R717	1-249-493-11	CARBON 56K 5%	1/3W
△ R718	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R719	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R720	1-212-982-00	FUSIBLE 100 5%	1/2W F
△ R721	1-212-982-00	FUSIBLE 100 5%	1/2W F
R722	1-234-145-11	ENCAPSULATED COMPONENT	
R723	1-234-145-11	ENCAPSULATED COMPONENT	
R724	1-259-997-11	CARBON MELF 1.5K 2%	1/8W
R725	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
R726	1-259-983-11	CARBON MELF 100 2%	1/8W
R727	1-259-988-11	CARBON MELF 270 2%	1/8W
R728	1-260-011-11	CARBON MELF 18K 2%	1/8W
△ R729	1-212-958-00	FUSIBLE 10 5%	1/2W F
R730	1-260-004-11	CARBON MELF 4.7K 2%	1/8W
R731	1-259-995-11	CARBON MELF 1K 2%	1/8W
R732	1-259-920-11	CARBON MELF 620 2%	1/8W
R733	1-260-017-11	CARBON MELF 56K 2%	1/8W
< VARIABLE RESISTOR >			
RV301	1-237-456-11	RES, ADJ, CARBON 1K	
RV401	1-237-456-11	RES, ADJ, CARBON 1K	
RV501	1-237-456-11	RES, ADJ, CARBON 1K	

Ref. No.	Part No.	Description	Remark
RV601	1-237-456-11	RES, ADJ, CARBON 1K	
RV701	1-237-456-11	RES, ADJ, CARBON 1K	
< RELAY >			
RY1	1-755-062-11	RELAY	
RY2	1-755-062-11	RELAY	
RY3	1-755-062-11	RELAY	
RY4	1-755-062-11	RELAY	
RY5	1-755-062-11	RELAY	
RY6	1-755-062-11	RELAY	
RY7	1-755-062-11	RELAY	
RY10	1-755-062-11	RELAY	
RY16	1-755-062-11	RELAY	
RY17	1-755-062-11	RELAY	
RY19	1-755-062-11	RELAY	
< SWITCH >			
S101	1-771-471-11	SWITCH, SLIDE (OPERATION)	

*	A-4414-845-A	PS BOARD, COMPLETE (US, CND)	
*	A-4414-847-A	PS BOARD, COMPLETE (EXCEPT US, CND)	

	2-259-121-01	SCREW, TR	
	4-902-345-01	HEAT SINK	
	4-974-510-01	SCREW (+BV 3X8 B)	
< CAPACITOR >			
C807	1-119-846-11	ELECT 1uF 20% 100V	
C808	1-119-815-21	ELECT 2200uF 20% 35V	
C809	1-119-782-11	ELECT 1000uF 20% 10V	
C810	1-125-927-11	ELECT 18000uF 20% 63V	
C811	1-125-927-11	ELECT 18000uF 20% 63V	
C812	1-136-880-11	FILM 2.2uF 10% 160V	
C813	1-119-841-11	ELECT 1000uF 20% 63V	
C814	1-119-841-11	ELECT 1000uF 20% 63V	
C816	1-119-841-11	ELECT 1000uF 20% 63V	
C817	1-119-804-21	ELECT 1000uF 20% 25V	
C818	1-119-841-11	ELECT 1000uF 20% 63V	
< CONNECTOR >			
CN804	1-691-766-31	PLUG (MICRO CONNECTOR) 4P	
CN805	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
CN806	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
CN807	1-564-241-00	PIN, CONNECTOR 4P	
CN808	1-564-104-00	PIN, CONNECTOR 3P	
CN811	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CN861	1-691-765-41	PLUG (MICRO CONNECTOR) 3P	
< DIODE >			
D801	8-719-302-38	DIODE RBV-602-01	
D805	8-719-200-82	DIODE 11ES2	
D806	8-719-200-82	DIODE 11ES2	
D807	8-719-200-82	DIODE 11ES2	
D808	8-719-200-82	DIODE 11ES2	
D809	8-719-200-82	DIODE 11ES2	
D810	8-719-302-38	DIODE RBV-602-01	

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Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
D811	8-719-929-15	DIODE RD9.1EB3T					L802	1-411-766-11	COIL, AIR-CORE				
		< IC >					L803	1-411-766-11	COIL, AIR-CORE				
							L804	1-411-766-11	COIL, AIR-CORE				
IC801	8-759-604-35	IC M5F78M05L					L805	1-411-766-11	COIL, AIR-CORE				
IC802	8-759-605-03	IC M5F78M24							< TRANSISTOR >				
		< RESISTOR >											
△R816	1-212-958-00	FUSIBLE	10	5%	1/2W	F	Q801	8-729-201-53	TRANSISTOR	2SA1015-GR			
△R817	1-212-958-00	FUSIBLE	10	5%	1/2W	F	Q803	8-729-281-54	TRANSISTOR	2SC1815-BL			
△R818	1-212-958-00	FUSIBLE	10	5%	1/2W	F	Q804	8-729-281-54	TRANSISTOR	2SC1815-BL			
R819	1-260-008-11	CARBON MELF	10K	2%	1/8W		Q805	8-729-281-54	TRANSISTOR	2SC1815-BL			
R822	1-260-008-11	CARBON MELF	10K	2%	1/8W				< RESISTOR >				
R823	1-260-008-11	CARBON MELF	10K	2%	1/8W		R801	1-249-162-11	CARBON	10	5%	1/3W	
R824	1-260-008-11	CARBON MELF	10K	2%	1/8W		R802	1-249-162-11	CARBON	10	5%	1/3W	
*****							R803	1-249-162-11	CARBON	10	5%	1/3W	
							R804	1-249-162-11	CARBON	10	5%	1/3W	
*	1-671-975-11	RY BOARD					R805	1-249-162-11	CARBON	10	5%	1/3W	

		< CAPACITOR >					R806	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
							R807	1-260-011-11	CARBON MELF	18K	2%	1/8W	
							R809	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
C850	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		R810	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
		< CONNECTOR >					R811	1-260-004-11	CARBON MELF	4.7K	2%	1/8W	
* CN809	1-564-242-00	PIN, CONNECTOR 5P					R813	1-260-011-11	CARBON MELF	18K	2%	1/8W	
CN853	1-691-765-11	PLUG (MICRO CONNECTOR) 3P					R814	1-260-011-11	CARBON MELF	18K	2%	1/8W	
		< DIODE >					R815	1-260-011-11	CARBON MELF	18K	2%	1/8W	
									< RELAY >				
D850	8-719-801-78	DIODE 1SS184					RY11	1-755-141-11	RELAY				
		< RELAY >					RY13	1-755-141-11	RELAY				
							RY14	1-755-141-11	RELAY				
									< TERMINAL >				
RY851	1-755-235-11	RELAY											
RY852	1-755-235-11	RELAY					TM801	1-694-447-11	TERMINAL BOARD (SP)				
*****									(FRONT/REAR SPEAKERS, L)				
							TM802	1-694-447-11	TERMINAL BOARD (SP)				
*	A-4414-832-A	SP BOARD, COMPLETE							(FRONT/REAR SPEAKERS, R)				
		*****					TM805	1-694-447-11	TERMINAL BOARD (SP) (CENTER SPEAKER)				
		< CAPACITOR >					*****						
C802	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		*	1-670-769-11	SW BOARD				
C803	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V			*****					
C804	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V			< CONNECTOR >					
C820	1-164-161-11	CERAMIC CHIP	2200PF	10%	100V								
C825	1-164-161-11	CERAMIC CHIP	2200PF	10%	100V		CN851	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
							CN852	1-691-765-41	PLUG (MICRO CONNECTOR) 3P				
C826	1-164-161-11	CERAMIC CHIP	2200PF	10%	100V				< SWITCH >				
C829	1-164-161-11	CERAMIC CHIP	2200PF	10%	100V								
		< CONNECTOR >					S801	1-771-472-11	SWITCH, SLIDE (SPEAKER IMPEDANCE)				

CN802	1-691-765-21	PLUG (MICRO CONNECTOR) 3P							MISCELLANEOUS				
CN803	1-691-765-31	PLUG (MICRO CONNECTOR) 3P							*****				
		< DIODE >											
D802	8-719-801-78	DIODE 1SS184					△CNJ801	1-559-479-11	CORD, POWER (US, CND)				
D803	8-719-801-78	DIODE 1SS184					△CNJ801	1-575-953-11	CORD, POWER (EXCEPT US, CND)				
D804	8-719-801-78	DIODE 1SS184					△T1	1-431-981-11	TRANSFORMER, POWER (US, CND)				
							△T1	1-431-983-11	TRANSFORMER, POWER (EXCEPT US, CND)				
		< COIL >					*****						
L801	1-411-766-11	COIL, AIR-CORE											

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Ref. No.	Part No.	Description	Remark

HARDWARE LIST			

#1	7-682-547-04	SCREW +B 3X6	
#2	7-682-565-09	SCREW +B 4X16	
#3	7-682-248-09	SCREW +K 3X8	
#4	7-682-148-15	SCREW, TR	
#5	7-682-575-04	SCREW +P 5X10	
#6	7-621-775-10	SCREW +B 2.6X4	
#7	7-682-561-09	SCREW +P 4X8	
#8	7-682-547-09	SCREW +B 3X6	

ACCESSORIES & PACKING MATERIALS

- 1-777-172-11 CORD, CONNECTION
- 3-864-981-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH)
(US, CND)
- 3-864-981-21 MANUAL, INSTRUCTION (ENGLISH, FRENCH,
GERMAN, SPANISH, DUTCH, SWEDISH,
ITALIAN, PORTUGUESE) (EXCEPT US, CND)