

TA-VE170

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model
Chinese Model



- This set is the Amplifier section in HT-K170.

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SPECIFICATIONS

Power output				Outputs	WOOFER: Voltage: 1 V Impedance: 1 kilohms
Rated Power (DIN 1 kHz, 8 ohms)					
Output at Stereo mode	25 W + 25 W			Muting	Full mute
Reference Power Output (DIN 1 kHz, 8 ohms)	Front: 25 W / ch Center: 25 W Rear: 25 W / ch			General	
Frequency response	TV, VIDEO, DVD 2CH, 5.1 CH / DVD 10 Hz - 50 kHz +0.5 / -2 dB			Power requirements	220 - 230 V AC, 50 / 60 Hz
Inputs				Power consumption	115 W
	Sensitivity	Impedance	S/N (weighting network, input level)	Dimensions	430 x 274 x 64.5 mm
TV, VIDEO, DVD 2CH, 5.1 CH / DVD	250 mV	50 kilohms	85 dB* (A, 250 mV)	Mass (Approx.)	4.6 kg

*78IHF

Design and specifications are subject to change without notice.

HOME THEATER SYSTEM

SONY®

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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.

Flexible Circuit Board Repairing

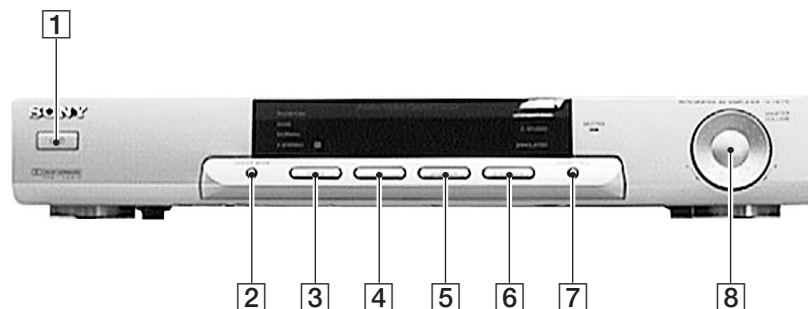
- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

与安全有关的零部件须知

在原理图上用阴影及 $\triangle$ 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。

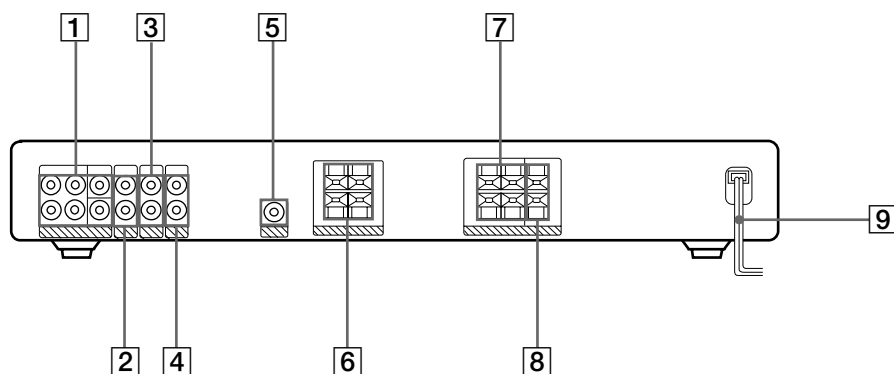
在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SECTION 1 GENERAL



- 1 I/⏻ button
- 2 CENTER MODE button
- 3 VIDEO button
- 4 TV button
- 5 DVD 2CH button
- 6 5-1 CH/DVD button
- 7 SOUND FIELD button
- 8 MASTER VOLUME knob

This section is extracted from instruction manual.

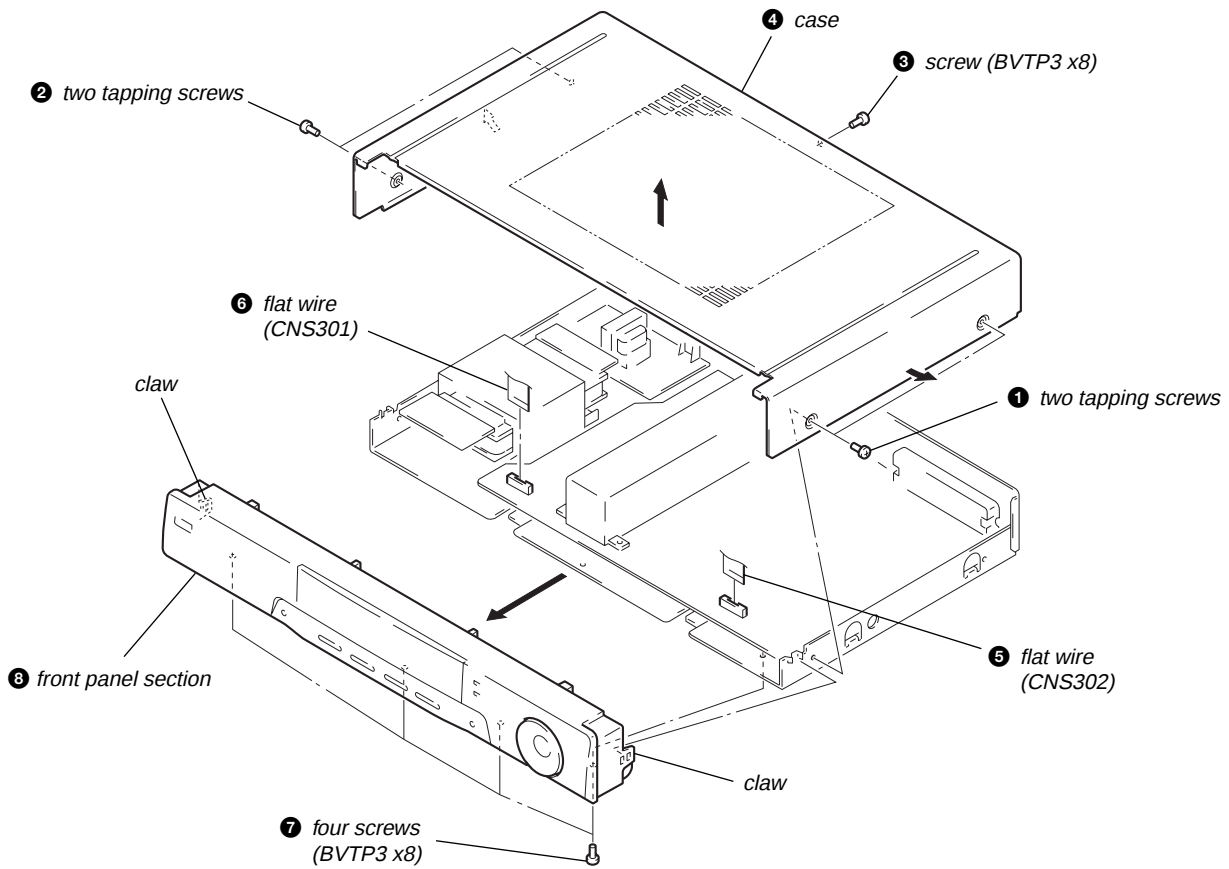


- | | | |
|----------------|-----------------|------------------|
| 1 5.1 CH / DVD | 4 VIDEO | 7 REAR SPEAKERS |
| 2 DVD2CH | 5 WOOFER | 8 CENTER SPEAKER |
| 3 TV | 6 FRONT SPEAKER | 9 Mains lead |

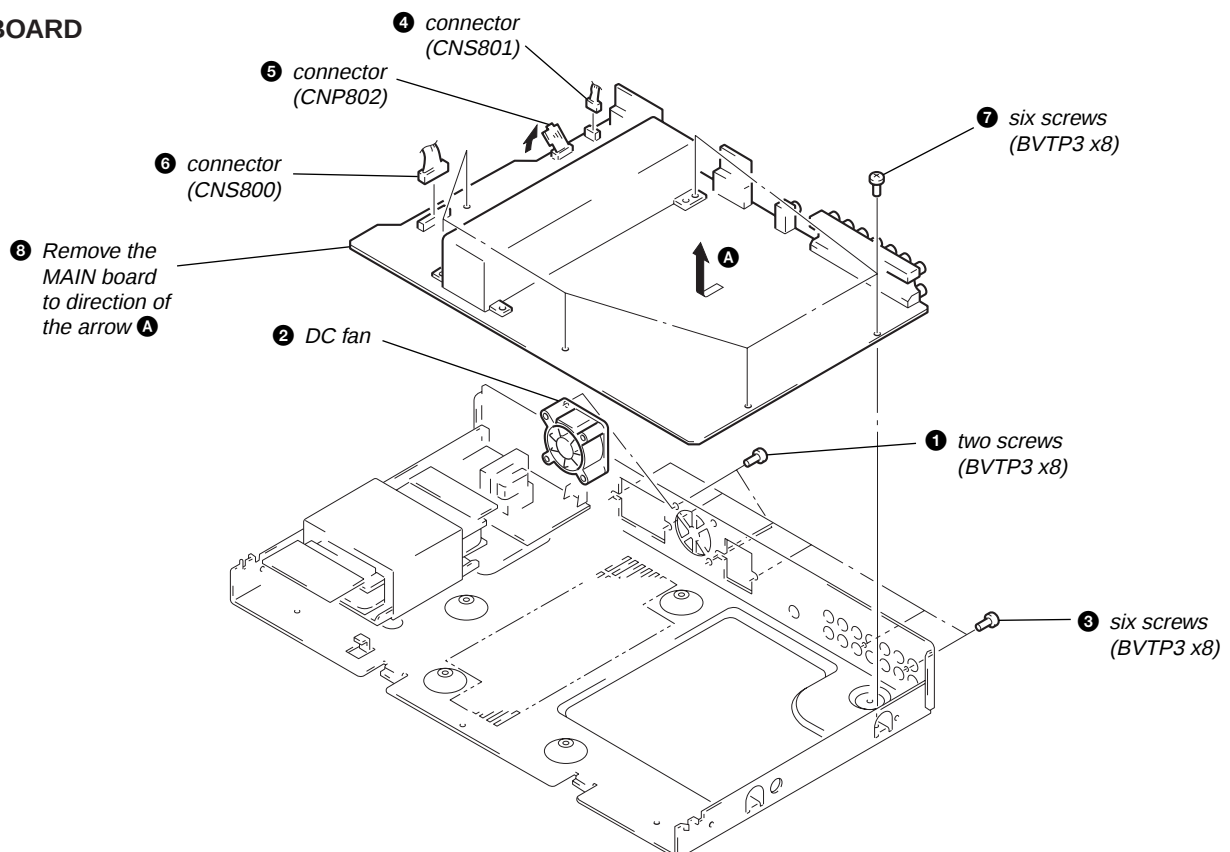
SECTION 2 DISASSEMBLY

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

CASE, FRONT PANEL SECTION



MAIN BOARD



SECTION 3

TEST MODE

This equipment is provided with a test mode built in the microcomputer.
The contents are described in the following.

[Initial Mode]

1. Press **I/⏻** button while pressing both **TV** and **5.1CH/DVD** buttons simultaneously.
2. "INITIAL" is displayed on the fluorescent indicator tube, and the status of the unit is set in the following.
 - All Memory is clear.
 - Center, rear level set to 0.
 - Center mode set to NORMAL.
 - Muting clear.
 - Volume level set to min.
 - FAN is on.

[Factory Mode]

1. Press **I/⏻** button while pressing three buttons of **VIDEO**, **DVD 2CH**, and **5.1CH/DVD** simultaneously.
2. Factory setting same as initial except center mode set to normal using jog can set to volume max or min directly.

[FL Check Mode]

1. Press **I/⏻** button while both **CENTER MODE** and **TV** buttons simultaneously.
2. Fluorescent indicator tube and LED are checked, "FINISH" is displayed and the status of the unit is set back in normal condition.

[Gain Up Mode]

1. Press **I/⏻** button while pressing **SOUND FIELD** button.
2. "NOMAL" is displayed on the fluorescent indicator tube and the rear is gained up 3 dB.
3. To exit from this mode, press two buttons in the same manner as step1.
"GAIN LOW" is displayed on the fluorescent indicator tube and the status of the unit is set back in normal condition.

[Version Mode]

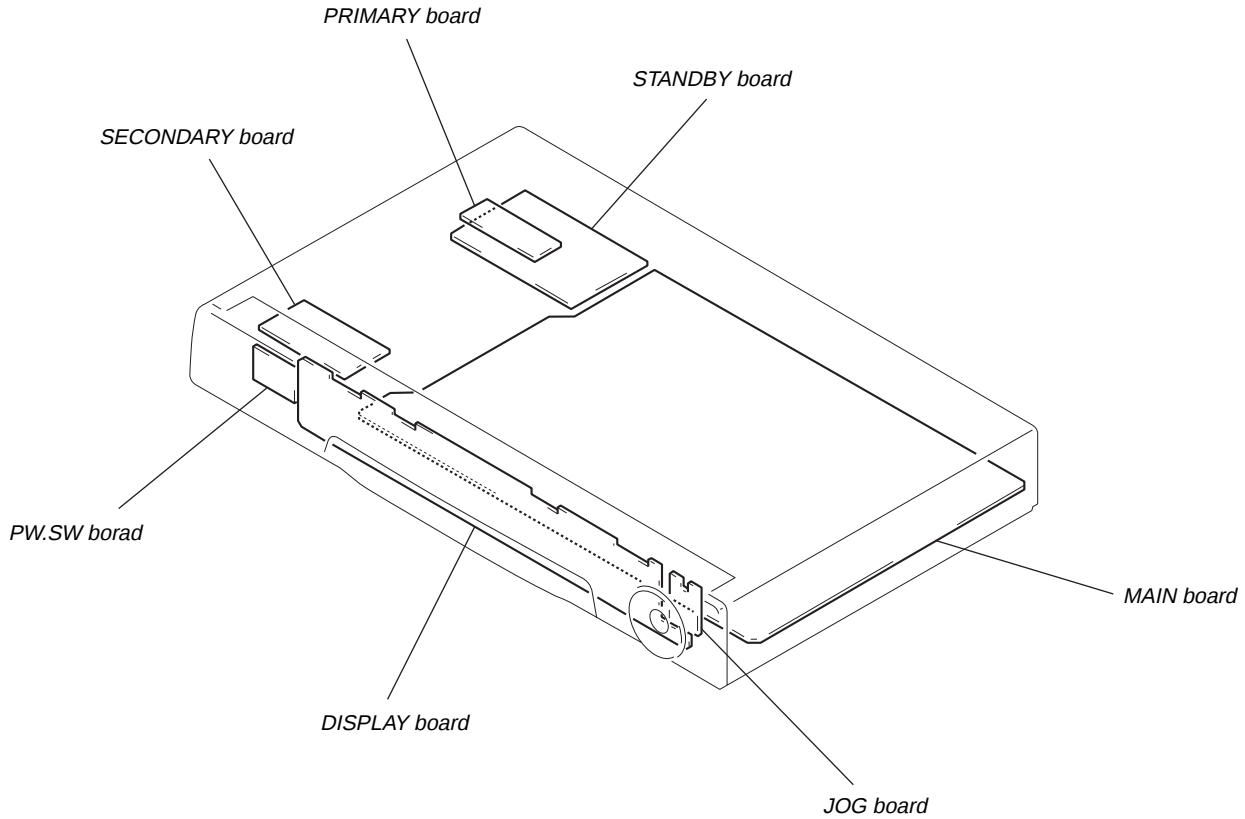
1. Press **I/⏻** button while pressing three buttons of **CENTER MODE**, **DVD 2CH** and **SOUND FIELD** buttons simultaneously.
2. Version of its destination is displayed on the fluorescent indicator tube.

[FAN ON/OFF]

- Press **I/⏻** button while pressing **CENTER MODE** button.
- "FAN ON" → fan always turn on.
- "FAN AUTO" → when micro computer detected enough input signal fan turn on automatically. Normally fan is off.

SECTION 4 DIAGRAMS

• Circuit Boards Location



4-1. NOTES FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

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.
- $\square$: nonflammable resistor.
- $\square$: 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.

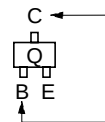
Note:

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。

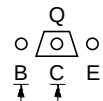
- $\square +$: B+ Line.
- $\square -$: B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance $10 \text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: FRONT/AUDIO IN
 - $\Rightarrow$: REAR
 - $\Rightarrow$: CENTER
 - $\Rightarrow$: WOOFER

Note on Printed Wiring Board:

- $\circ$: parts extracted from the component side.
- $\square$: Pattern from the side which enables seeing.
- Indication of transistor.



These are omitted.

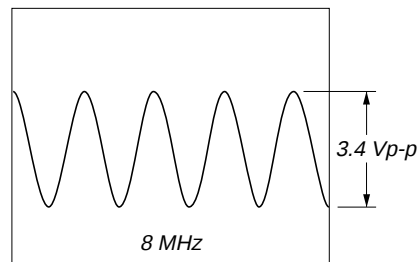


These are omitted.

• Waveforms

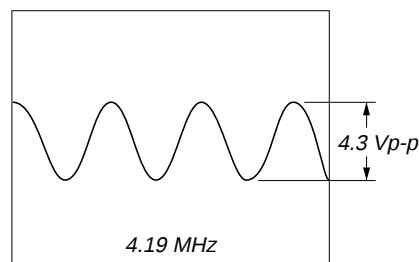
– MAIN Board –

① IC300 ③ (OSC)



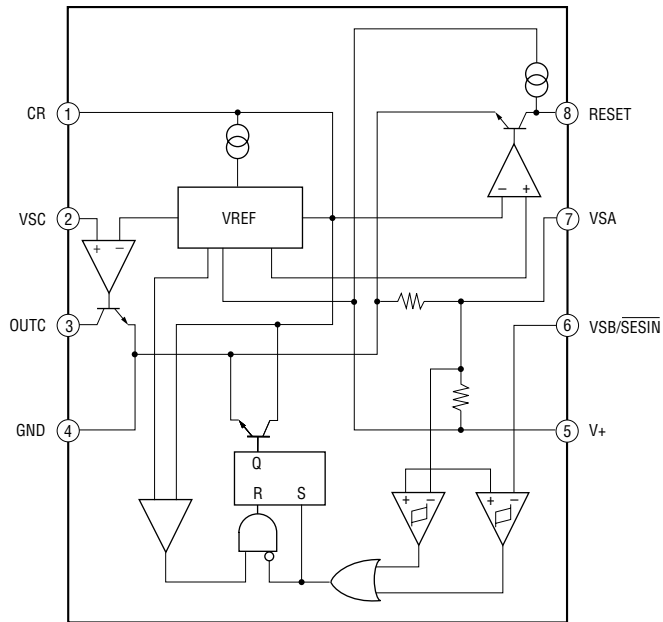
– DISPLAY Board –

① IC201 ③ (X1)



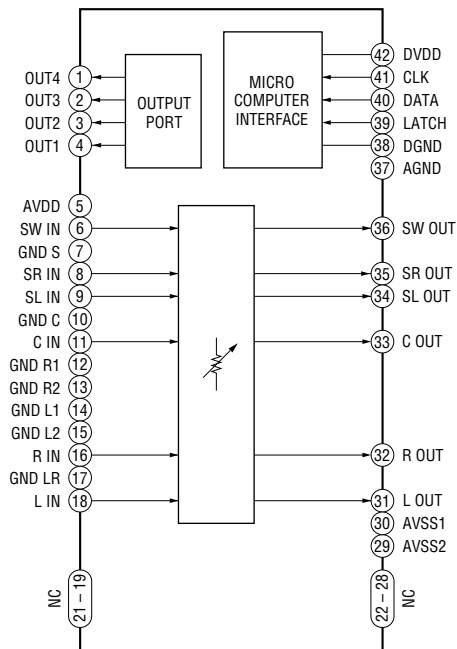
• IC Block Diagrams
– STANDBY Board –

IC950 NJM2103D

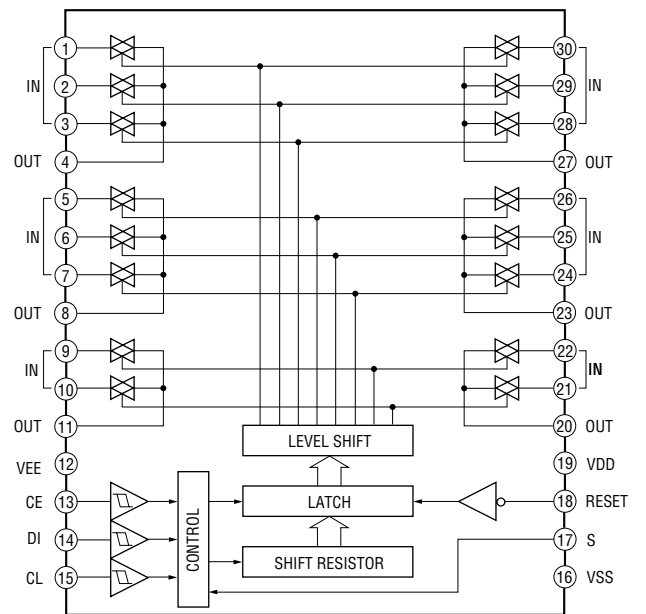


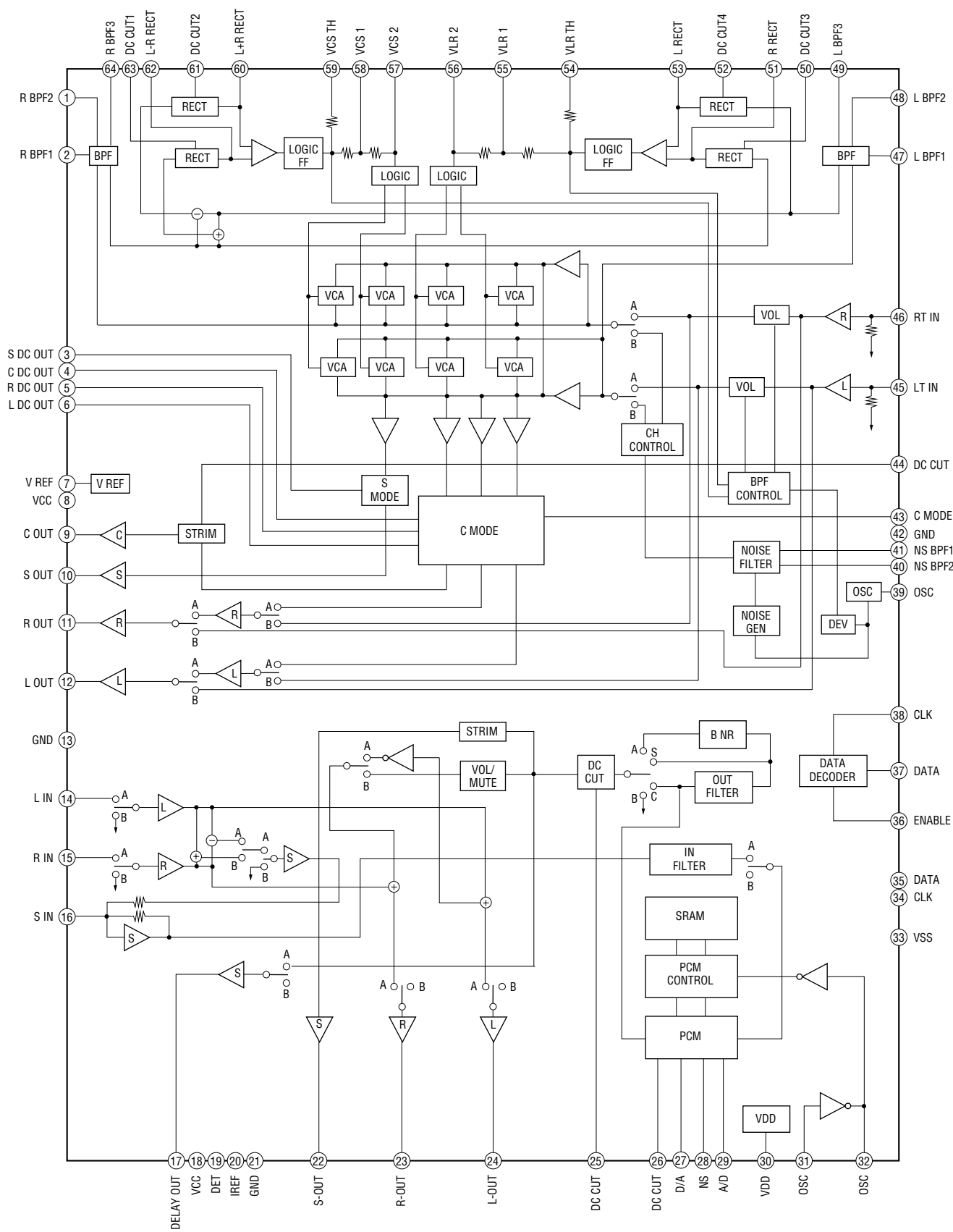
– MAIN Board –

IC100 M62447SP



IC500 LC78212





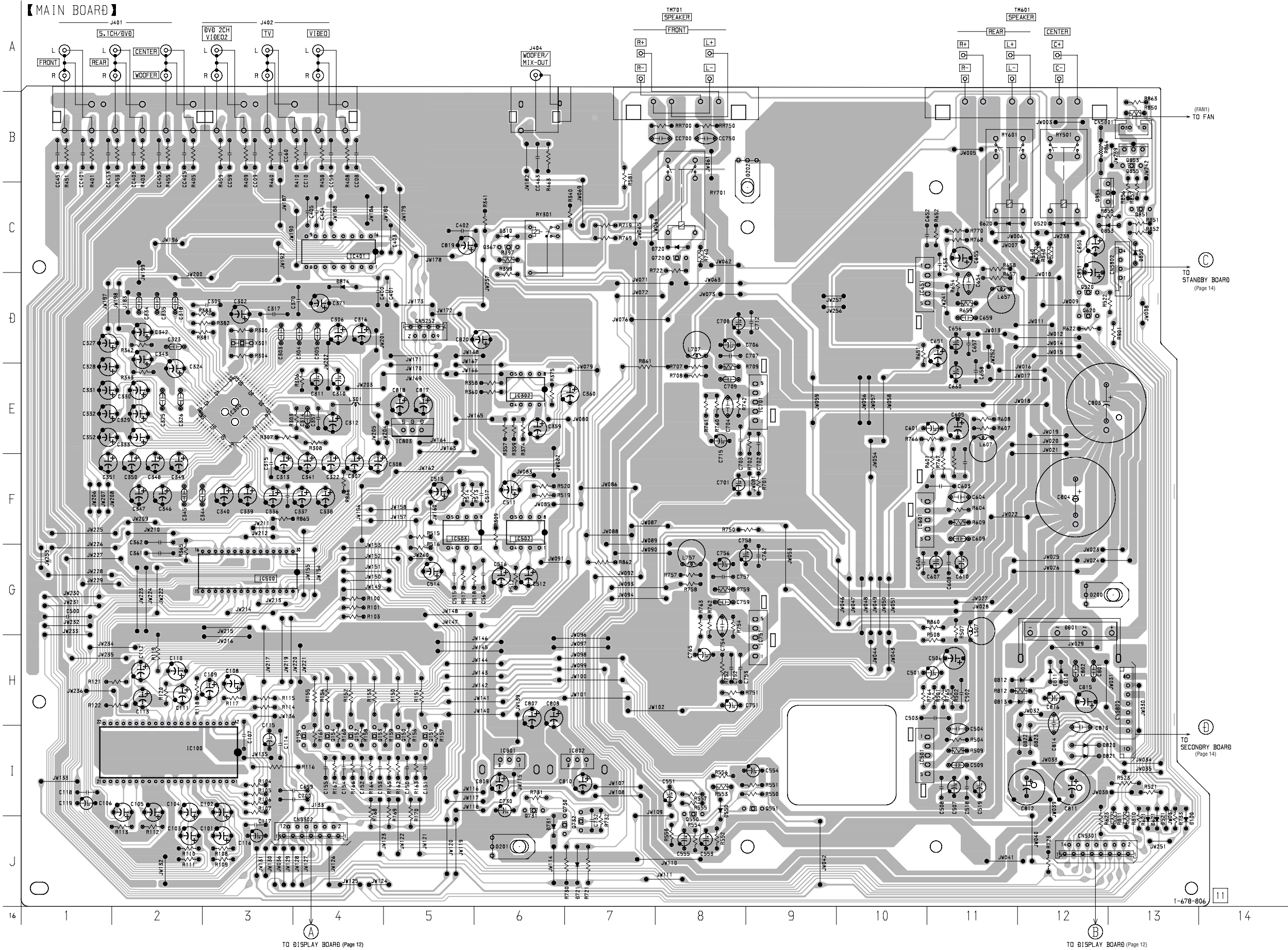
4-2. PRINTED WIRING BOARD – MAIN Section –

• See page 6 for Circuit Boards Location.

There are a few cases that the part printed on this diagram isn't mounted in this model.

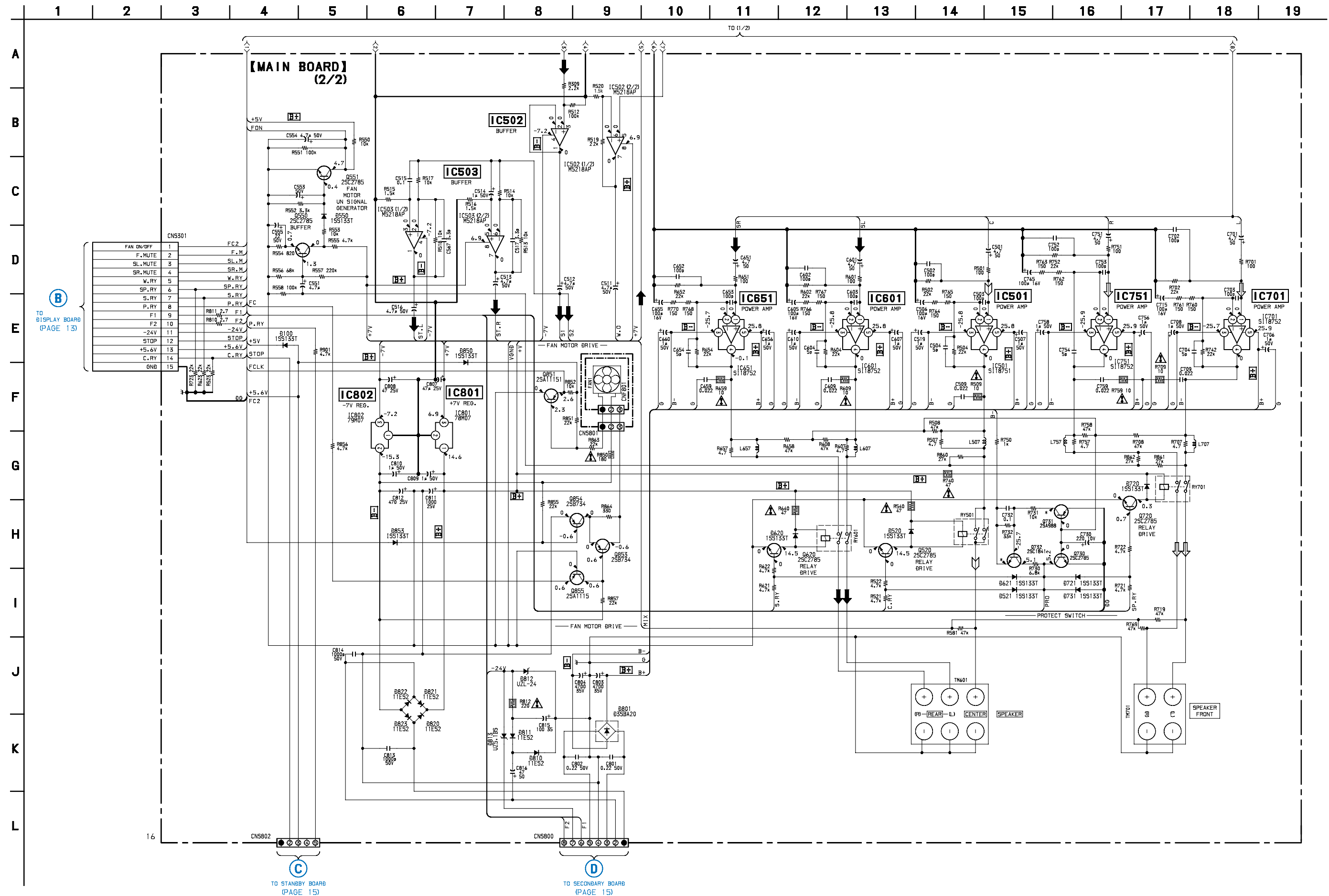
• Semiconductor Location

Ref. No.	Location
D100	J-13
D310	C-6
D520	C-12
D521	J-13
D550	I-8
D620	C-11
D621	J-13
D720	C-8
D721	J-7
D731	J-6
D801	G-12
D810	H-12
D811	H-12
D812	H-11
D813	H-11
D814	D-4
D820	I-12
D821	I-12
D822	I-12
D823	I-12
D850	C-13
D853	C-13
IC100	I-2
IC300	E-3
IC302	E-6
IC401	C-4
IC500	G-3
IC501	I-10
IC502	F-6
IC503	F-5
IC601	F-10
IC651	D-10
IC701	E-9
IC751	H-9
IC801	I-6
IC802	I-7
IC803	E-5
Q150	I-5
Q151	I-5
Q152	I-4
Q153	I-4
Q154	I-4
Q155	I-4
Q367	C-6
Q520	D-12
Q550	I-8
Q551	I-9
Q620	D-12
Q720	C-8
Q730	I-7
Q731	I-6
Q732	J-7
Q851	C-13
Q853	B-13
Q854	C-12
Q855	B-13





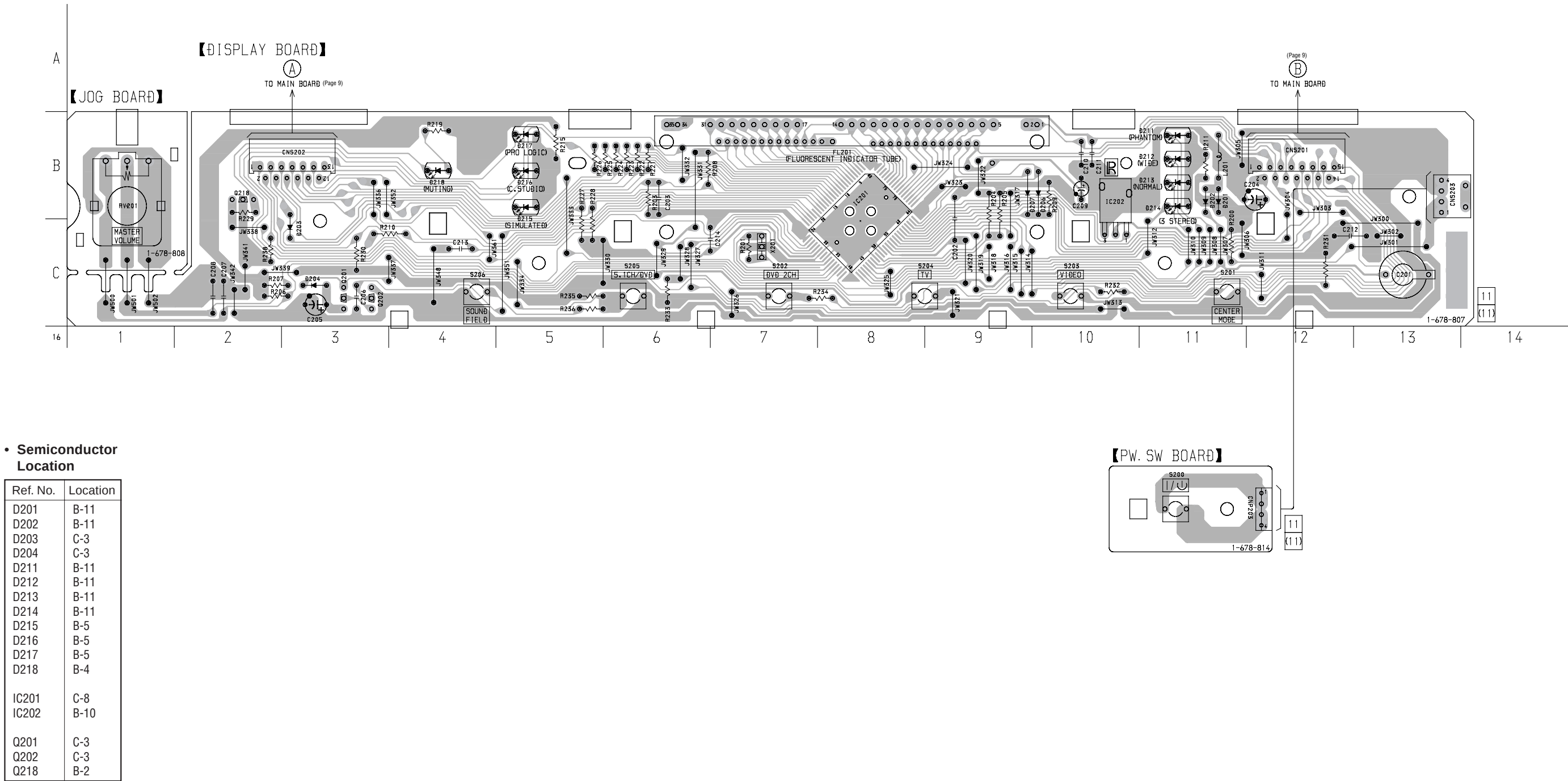
4-4. SCHEMATIC DIAGRAM – MAIN Section (2/2) –



4-5. PRINTED WIRING BOARDS – PANEL Section –

• See page 6 for Circuit Boards Location.

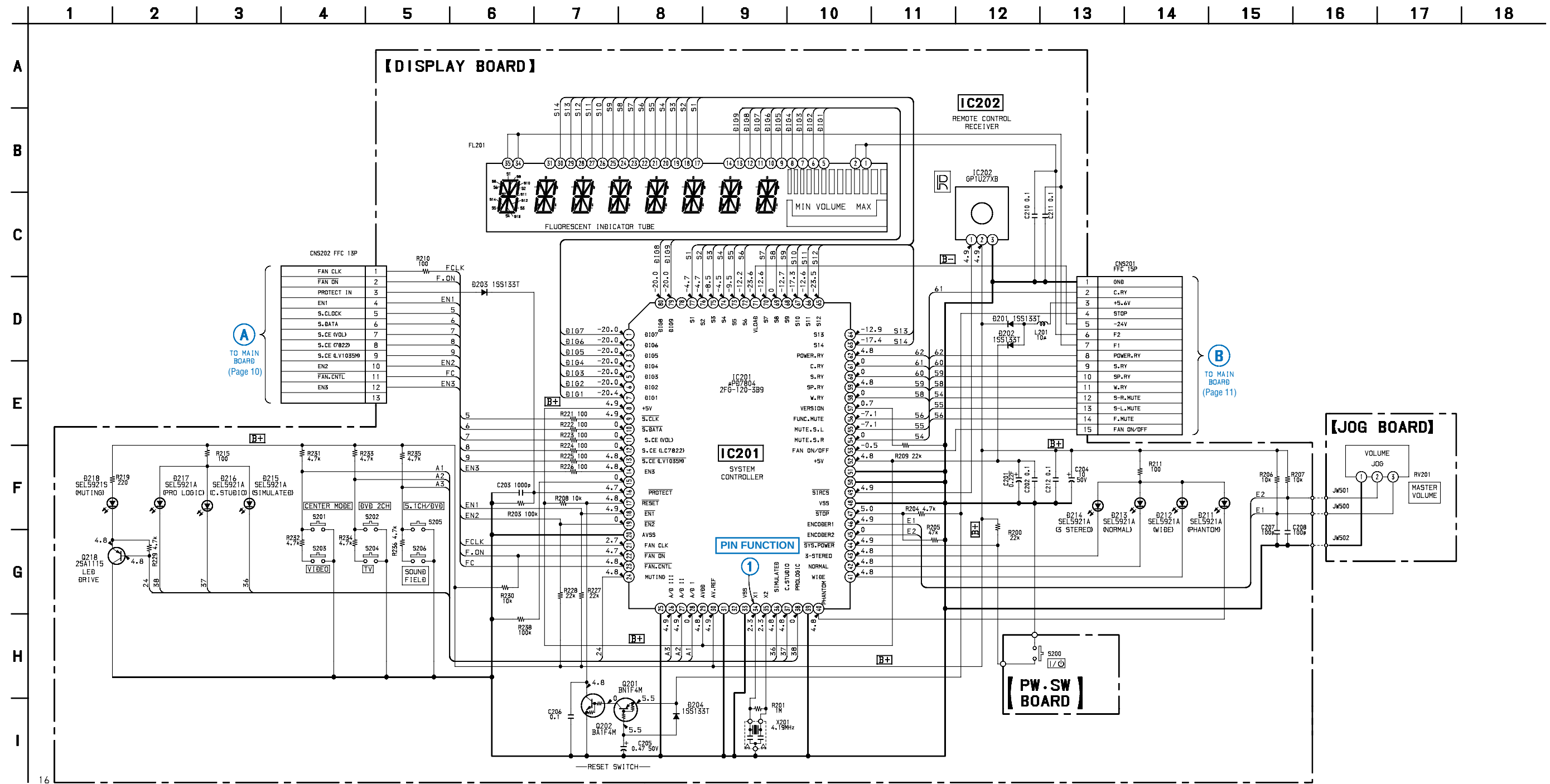
There are a few cases that the part printed on this diagram isn't mounted in this model.



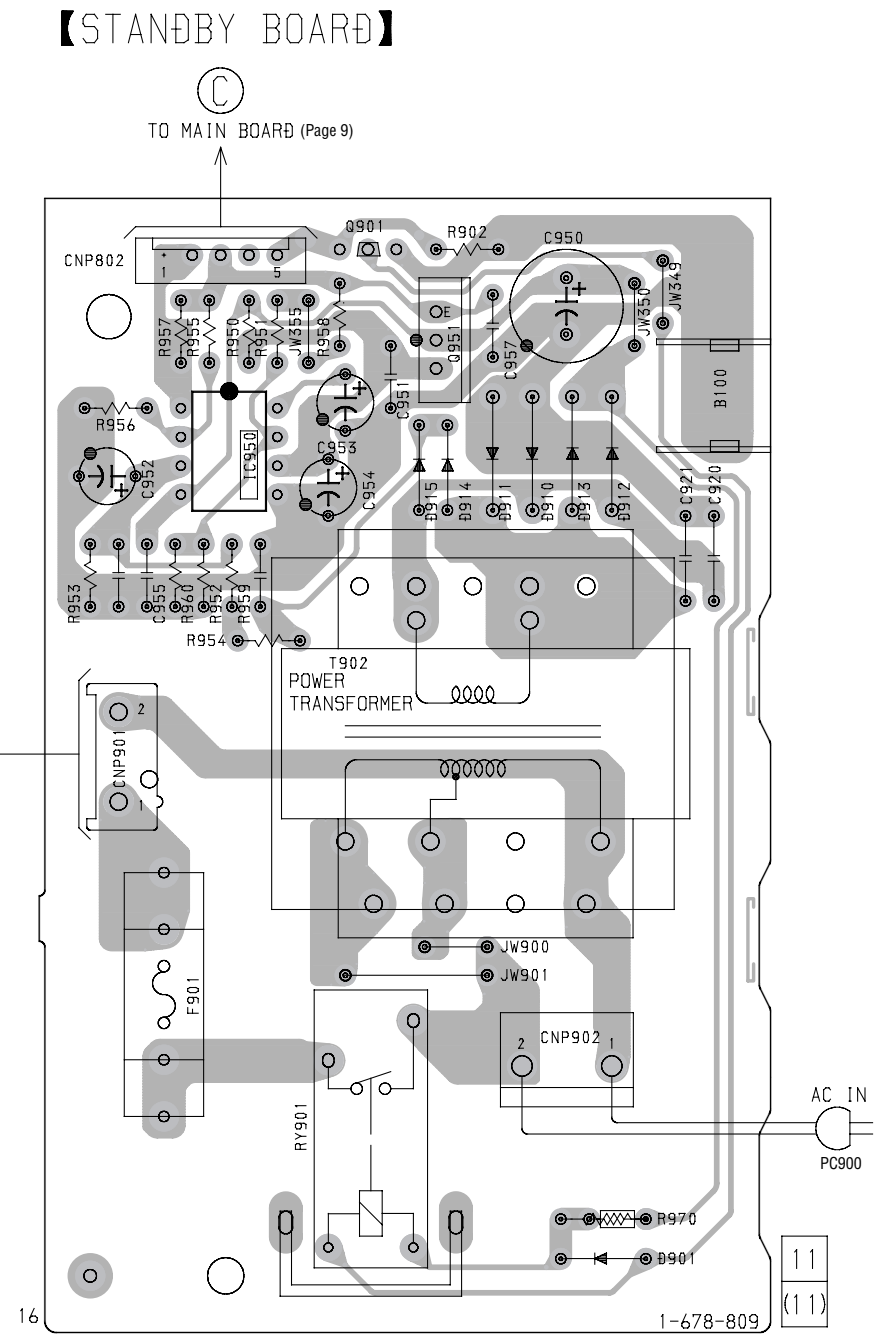
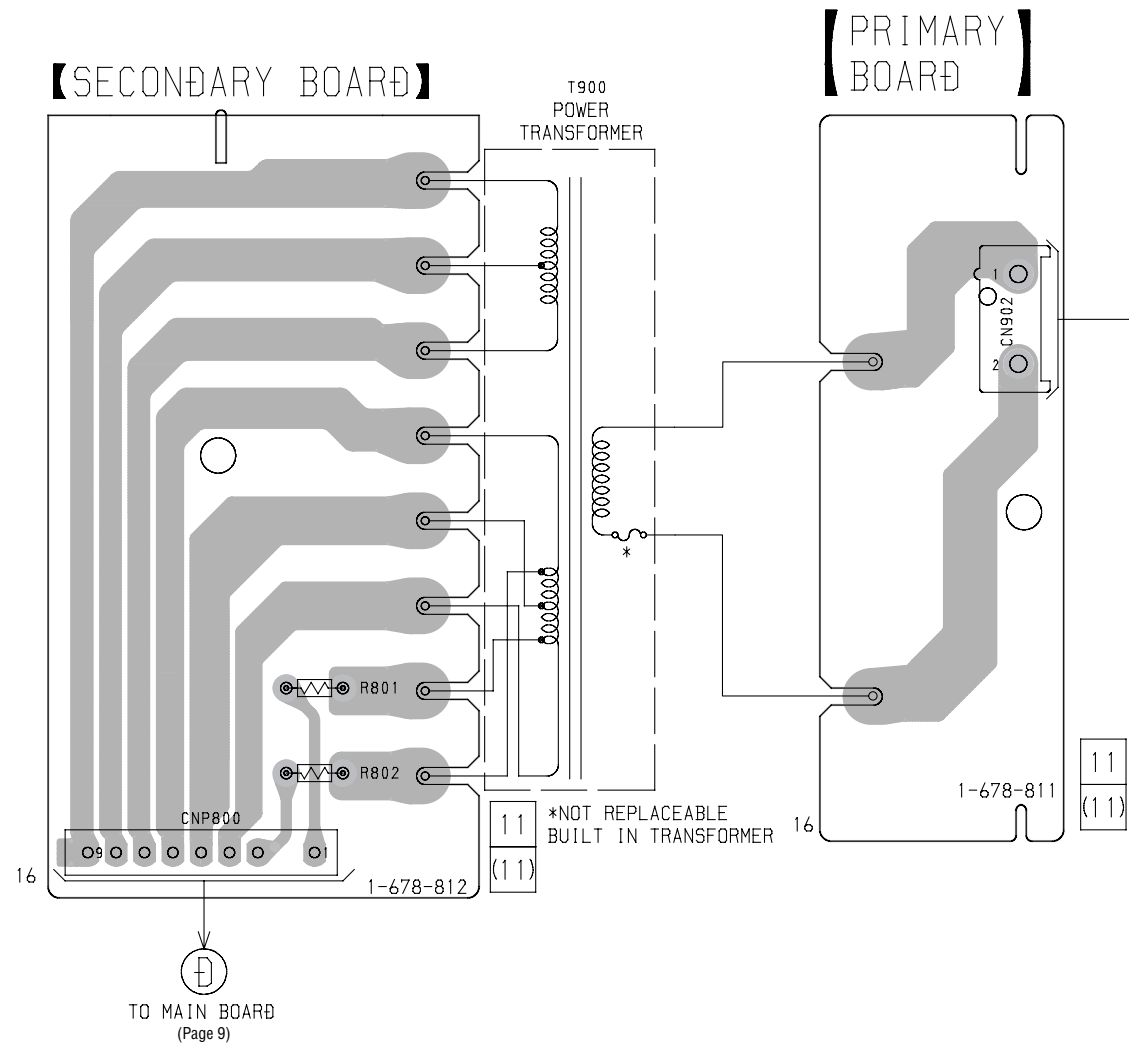
4-6. SCHEMATIC DIAGRAM – PANEL Section –

• See page 6 for Waveform.

• See page 16 for IC Pin Function.

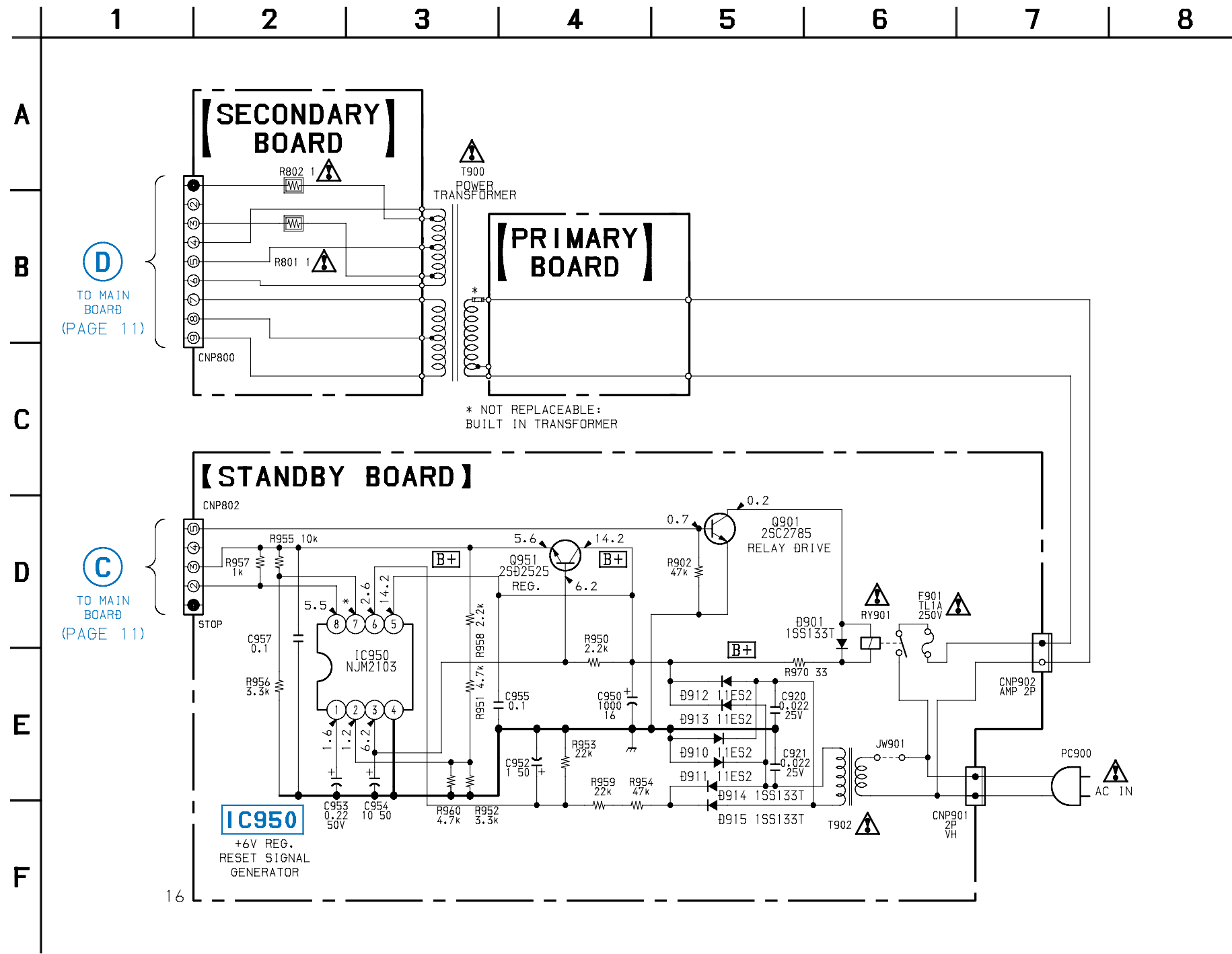


There are a few cases that the part printed on this diagram isn't mounted in this model.



4-8. SCHEMATIC DIAGRAM – POWER Section –

• See page 7 for IC Block Diagram.



4-9. IC PIN FUNCTION DESCRIPTION

• DISPLAY BOARD IC201 μPD78042FGF-120-3B9 (SYSTEM CONTROLLER, FL/LED DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Function
1 to 7	DIG7 to DIG1	O	Grid drive signal output to the fluorescent indicator tube (FL201)
8	VDD	—	Power supply terminal (+5V)
9	S. CLK	O	Serial data transfer clock signal output to the M62447SP (IC100), LV1035M (IC300) and LC78212 (IC500)
10	S. DATA	O	Serial data output to the M62447SP (IC100), LV1035M (IC300) and LC78212 (IC500)
11	S. CE (VOL)	O	Chip enable signal output to the M62447SP (IC100) “H” active
12	S. CE (LC7822)	O	Chip enable signal output to the LC78212 (IC500) “H” active
13	S. CE (LV1035M)	O	Chip enable signal output to the LV1035M (IC300) “H” active
14	EN3	O	Enable signal output terminal “L” active
15	—	I	Not used
16	PROTECT	I	Overload protection input terminal
17	RESET	I	System reset signal input from the reset signal generator circuit “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
18	EN1	O	Enable signal output to the function switch (IC402) “L” active
19	EN2	O	Enable signal output to the function switch (IC401) “L” active
20	AVSS	—	Ground terminal (for A/D converter)
21	FAN CLK	I	Fan motor clock signal input terminal
22	FAN ON	I	Fan on signal input for the fan motor drive
23	FAN. CNTL	O	Fan motor control signal output terminal “L”: fan motor on (high speed) “H” : fan low speed
24	MUTING	O	LED drive signal output of the MUTING LED (D218) “H”: LED on
25	—	I	Not used (open)
26	A/D III	I	Key input terminal (A/D input) S205, 206 (5.1 IN, SURROUND MODE keys input)
27	A/D II	I	Key input terminal (A/D input) S202, 204 (VIDEO, DVD keys input)
28	A/D I	I	Key input terminal (A/D input) S201, 203 (CENTER MODE, TV keys input)
29	AVDD	—	Power supply terminal (+5V) (for A/D converter)
30	AVREF	I	Reference voltage (+5V) input terminal (for A/D converter)
31	XT1	I	Sub system clock input terminal Not used (fixed at “L”)
32	XT2	O	Sub system clock output terminal Not used (open)
33	VSS	—	Ground terminal
34	X1	I	Main system clock input terminal (4.19 MHz)
35	X2	O	Main system clock output terminal (4.19 MHz)
36	SIMULATED	O	LED drive signal output of the SIMULATED LED (D215) “L”: LED on
37	C. STUDIO	O	LED drive signal output of the C.STUDIO LED (D216) “L”: LED on
38	PROLOGIC	O	LED drive signal output of the PROLOGIC LED (D217) “L”: LED on
39	—	I	Not used (fixed at “L”)
40	PHANTOM	O	LED drive signal output of the PHANTOM LED (D211) “L”: LED on
41	WIDE	O	LED drive signal output of the WIDE LED (D212) “L”: LED on
42	NORMAL	O	LED drive signal output of the NORMAL LED (D213) “L”: LED on
43	3-STEREO	O	LED drive signal output of the 3 STEREO LED (D214) “L”: LED on
44	SYS. POWER	I	System power on/off switch (S200 I/⏻) input terminal
45	ENCODER 2	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
46	ENCODER 1	I	Jog dial pulse input from the rotary encoder (RV201 MASTER VOLUME)
47	STOP	I	Power down detection signal input from the NJM2103D (IC950) “L”: power down
48	VSS	—	Ground terminal
49	SIRCS	I	Sircs signal input from the remote control receiver (IC202)
50, 51	—	I	Not used (fixed at “L”)

Pin No.	Pin Name	I/O	Function
52	VDD	—	Power supply terminal (+5V)
53	FAN ON/OFF	O	Fan on/off control “L” : fan on “H” : fan stop
54	MUTE. S. R	O	Line muting on/off control signal output for the rear speaker right channel signal “H”: muting on
55	MUTE. S. L	O	Line muting on/off control signal output for the rear speaker left channel signal “H”: muting on
56	FUNC. MUTE	O	Line muting on/off control signal output for the front and center speakers signal “H”: muting on
57	VERSION	I	Setting terminal for the version (fixed at “L” in this set)
58	W. RY	O	Woofer on/off relay drive signal output terminal “H”: relay on
59	SP. RY	O	Front speaker on/off relay drive signal output terminal (for protect) “H”: relay on
60	S. RY	O	Rear speaker on/off relay drive signal output terminal (for protect) “H”: relay on
61	C. RY	O	Center speaker on/off relay drive signal output terminal (for protect) “H”: relay on
62	POWER. RY	O	Power on/off relay drive signal output terminal “H”: relay on (power on)
63 to 70	S14 to S7	O	Segment drive signal output to the fluorescent indicator tube (FL201)
71	VLOAD	—	Power supply terminal (−24V) (for FL drive)
72 to 77	S6 to S1	O	Segment drive signal output to the fluorescent indicator tube (FL201)
78	—	O	Not used (open)
79, 80	DIG9, DIG8	O	Grid drive signal output to the fluorescent indicator tube (FL201)

SECTION 5

EXPLODED VIEWS

NOTE:

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

↑
Parts Color

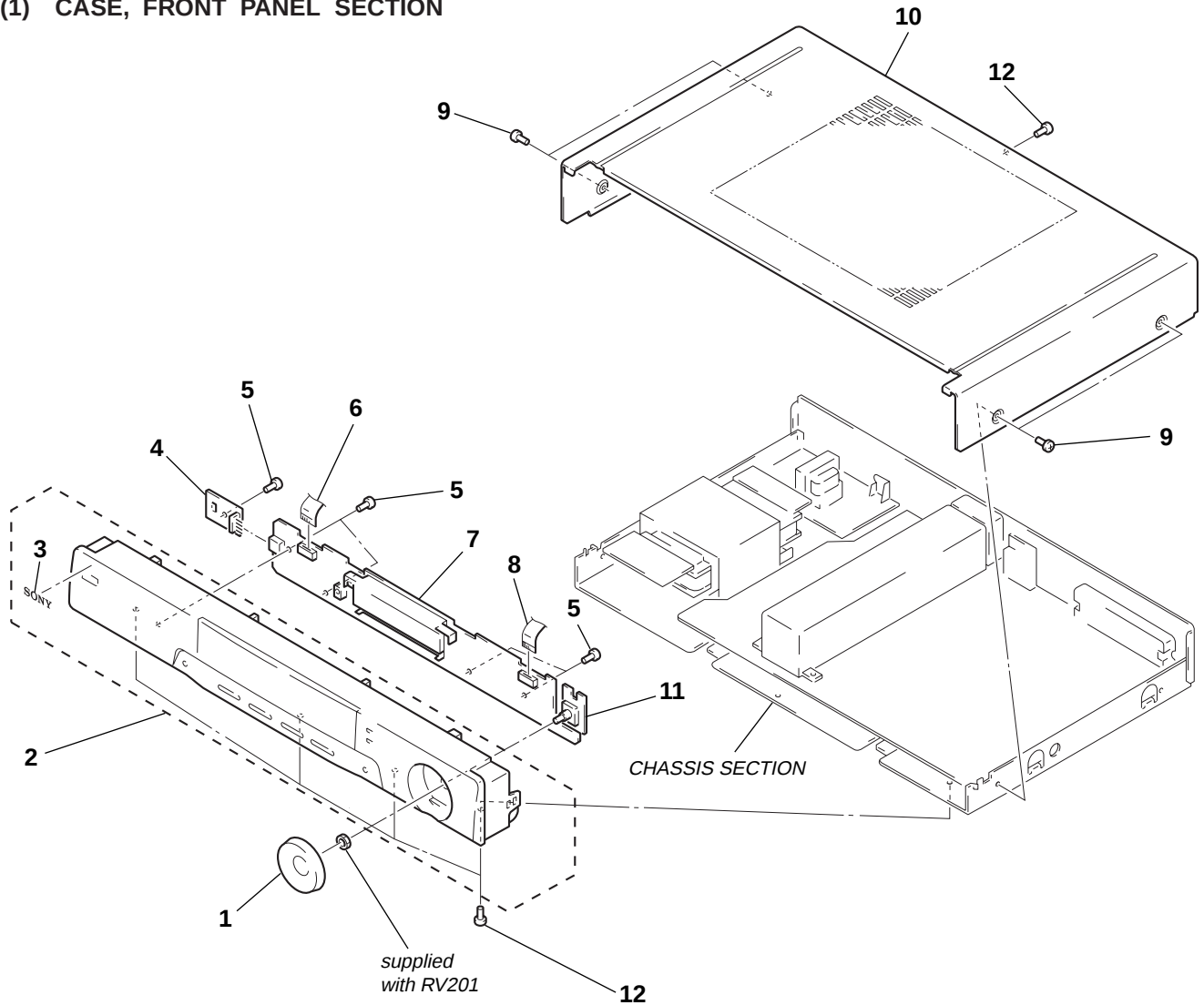
↑
Cabinet's Color

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

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

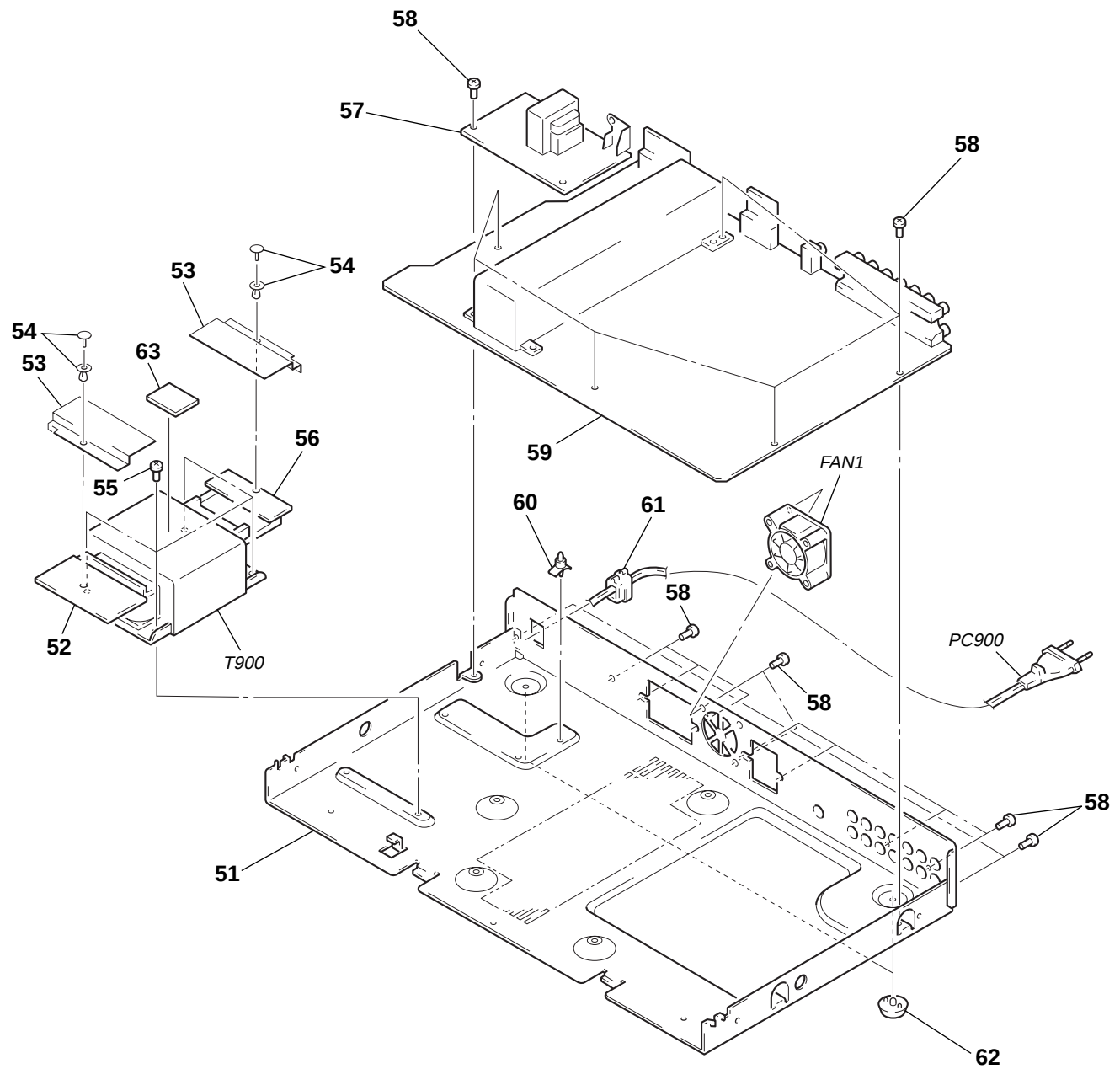
以阴影和△标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

(1) CASE, FRONT PANEL SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	4-211-178-01	KNOB (VOL) (BLACK)		7	A-4473-758-A	DISPLAY BOARD,COMPLETE	
1	4-211-178-21	KNOB (VOL) (SILVER)		8	1-769-973-11	WIRE(FLAT TYPE) (13 CORE)	
2	X-4953-052-1	FRONT PANEL ASSY (BLACK)		9	3-710-901-11	SCREW, TAPPING (BLACK)	
2	X-4953-053-1	FRONT PANEL ASSY (SILVER)		9	4-210-291-11	SCREW (CASE 3 TP2)(SILVER)	
3	3-008-600-11	EMBLEM (5-AR), SONY		10	4-211-182-51	CASE (SILVER)	
4	1-678-814-11	PW.SW BOARD		* 10	4-211-182-01	CASE (BLACK)	
5	4-951-620-01	SCREW(2.6X8), +BVTP		11	1-678-808-11	JOG BOARD	
6	1-777-353-11	WIRE(FLAT TYPE) (15 CORE)		12	7-685-646-79	SCREW +BVTP3X8 TYPE2 N-S	

(2) CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51	4-211-183-21	CHASSIS PANEL		59	A-4473-763-A	MAIN BOARD,COMPLETE	
52	1-678-812-11	SECONDARY BOARD		* 60	4-924-098-21	HOLDER, PC BOARD	
53	4-212-070-01	INSULATOR (PT)		* 61	3-703-244-00	BUSHING (2104), CORD	
54	3-531-576-11	RIVET		62	4-965-822-01	FOOT	
55	7-685-880-09	SCREW +BVTT4X6 (S)		63	4-214-557-11	CUSHION	
56	1-678-811-11	PRIMARY BOARD		FAN1	1-763-137-11	FAN, DC	
57	A-4473-760-A	STANDBY BOARD,COMPLETE		$\triangle$ T900	1-431-979-11	TRANSFORMER, POWER	
58	7-685-646-79	SCREW +BVTP3X8 TYPE2 N-S		$\triangle$ PC900	1-777-071-21	CORD, POWER	

SECTION 6 ELECTRICAL PARTS LIST

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . . : μ A. . . uPA. . . : μ PA. . .
uPB. . . : μ PB. . . uPC. . . : μ PC. . .
uPD. . . : μ PD. . .
- CAPACITORS
uF: μ F
• COILS
uH: μ H

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

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

以阴影和 Δ 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。

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4473-758-A	DISPLAY BOARD, COMPLETE *****				< COIL >	
				L201	1-410-509-11	INDUCTOR 10uH	
						< TRANSISTOR >	
				Q201	8-729-900-63	TRANSISTOR BN1F4M-TP	
				Q202	8-729-900-36	TRANSISTOR BA1F4M-TP	
				Q218	8-729-119-76	TRANSISTOR 2SA1115TP-F	
						< RESISTOR >	
				R200	1-249-433-11	CARBON 22K 5% 1/4W	
				R201	1-247-903-00	CARBON 1M 5% 1/4W	
				R203	1-249-441-11	CARBON 100K 5% 1/4W	
				R204	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R205	1-249-437-11	CARBON 47K 5% 1/4W	
				R206	1-249-429-11	CARBON 10K 5% 1/4W	
				R207	1-249-429-11	CARBON 10K 5% 1/4W	
				R208	1-249-429-11	CARBON 10K 5% 1/4W	
				R209	1-249-433-11	CARBON 22K 5% 1/4W	
				R210	1-247-807-31	CARBON 100 5% 1/4W	
				R211	1-247-807-31	CARBON 100 5% 1/4W	
				R215	1-247-807-31	CARBON 100 5% 1/4W	
				R219	1-249-409-11	CARBON 220 5% 1/4W F	
				R221	1-247-807-31	CARBON 100 5% 1/4W	
				R222	1-247-807-31	CARBON 100 5% 1/4W	
				R223	1-247-807-31	CARBON 100 5% 1/4W	
				R224	1-247-807-31	CARBON 100 5% 1/4W	
				R225	1-247-807-31	CARBON 100 5% 1/4W	
				R226	1-247-807-31	CARBON 100 5% 1/4W	
				R227	1-249-433-11	CARBON 22K 5% 1/4W	
				R228	1-249-433-11	CARBON 22K 5% 1/4W	
				R229	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R230	1-249-429-11	CARBON 10K 5% 1/4W	
				R231	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R232	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R233	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R234	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R235	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R236	1-249-425-11	CARBON 4.7K 5% 1/4W F	
				R238	1-249-441-11	CARBON 100K 5% 1/4W	
						< SWITCH >	
				S201	1-762-875-21	SWITCH, KEYBOARD (CENTER MODE)	
				S202	1-762-875-21	SWITCH, KEYBOARD (DVD 2CH)	
				S203	1-762-875-21	SWITCH, KEYBOARD (VIDEO)	
				S204	1-762-875-21	SWITCH, KEYBOARD (TV)	
				S205	1-762-875-21	SWITCH, KEYBOARD (5.1CH/DVD)	
						< CAPACITOR >	
				C201	1-104-905-11	CAPACITOR 0.22F 5.5V	
				C202	1-164-159-11	CERAMIC 0.1uF 50V	
				C203	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C204	1-124-261-00	ELECT 10uF 20% 50V	
				C205	1-124-465-00	ELECT 0.47uF 20% 50V	
				C206	1-164-159-11	CERAMIC 0.1uF 50V	
				C207	1-162-282-31	CERAMIC 100PF 10% 50V	
				C208	1-162-282-31	CERAMIC 100PF 10% 50V	
				C210	1-164-159-11	CERAMIC 0.1uF 50V	
				C211	1-164-159-11	CERAMIC 0.1uF 50V	
				C212	1-164-159-11	CERAMIC 0.1uF 50V	
						< CONNECTOR >	
				CNP203	1-565-295-11	PLUG, CONNECTOR 4P	
				CNS201	1-569-306-11	SOCKET, CONNECTOR (L TYPE) 15P	
				CNS202	1-568-444-11	SOCKET, CONNECTOR 13P	
				CNS203	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
				CNS802	1-770-480-11	SOCKET, CONNECTOR PIN 4P	
						< DIODE >	
				D201	8-719-911-19	DIODE 1SS133T-72	
				D202	8-719-911-19	DIODE 1SS133T-72	
				D203	8-719-911-19	DIODE 1SS133T-72	
				D204	8-719-911-19	DIODE 1SS133T-72	
				D211	8-719-046-36	DIODE SEL5921A-TP15 (PHANTOM)	
				D212	8-719-046-36	DIODE SEL5921A-TP15 (WIDE)	
				D213	8-719-046-36	DIODE SEL5921A-TP15 (NORMAL)	
				D214	8-719-046-36	DIODE SEL5921A-TP15 (3 STEREO)	
				D215	8-719-046-36	DIODE SEL5921A-TP15 (SIMULATED)	
				D216	8-719-046-36	DIODE SEL5921A-TP15 (C. STUDIO)	
				D217	8-719-046-36	DIODE SEL5921A-TP15 (PRO LOGIC)	
				D218	8-719-046-36	DIODE SEL5921A-TP15 (MUTING)	
						< FILTER >	
				FL201	1-517-786-11	INDICATOR TUBE, FLUORESCENT	
						< IC >	
				IC201	8-759-683-98	IC uPD78042FGF-120-3B9	
				IC202	8-759-332-18	IC GP1U27XB	

Ref. No.	Part No.	Description	Remarks			
S206	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)				
< VIBRATOR >						
X201	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)				

	1-678-808-11	JOG BOARD				

< VARIABLE RESISTOR >						
RV201	1-475-886-11	ENCODER, ROTARY (MASTER VOLUME)				

	A-4473-763-A	MAIN BOARD, COMPLETE				

	3-531-576-11	RIVET				
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S				
	7-685-872-09	SCREW +BVTT 3X8 (S)				
< CAPACITOR >						
C101	1-126-163-11	ELECT	4.7uF	20%	50V	
C102	1-126-163-11	ELECT	4.7uF	20%	50V	
C103	1-126-163-11	ELECT	4.7uF	20%	50V	
C104	1-126-163-11	ELECT	4.7uF	20%	50V	
C105	1-126-163-11	ELECT	4.7uF	20%	50V	
C106	1-126-163-11	ELECT	4.7uF	20%	50V	
C107	1-162-291-31	CERAMIC	560PF	10.00%	50V	
C108	1-126-163-11	ELECT	4.7uF	20%	50V	
C109	1-126-163-11	ELECT	4.7uF	20%	50V	
C110	1-126-163-11	ELECT	4.7uF	20%	50V	
C111	1-126-163-11	ELECT	4.7uF	20%	50V	
C112	1-126-163-11	ELECT	4.7uF	20%	50V	
C113	1-126-163-11	ELECT	4.7uF	20%	50V	
C114	1-164-159-11	CERAMIC	0.1uF		50V	
C115	1-126-964-11	ELECT	10uF	20.00%	50V	
C116	1-126-964-11	ELECT	10uF	20.00%	50V	
C117	1-164-159-11	CERAMIC	0.1uF		50V	
C118	1-164-159-11	CERAMIC	0.1uF		50V	
C119	1-126-964-11	ELECT	10uF	20.00%	50V	
C150	1-164-159-11	CERAMIC	0.1uF		50V	
C151	1-164-159-11	CERAMIC	0.1uF		50V	
C152	1-164-159-11	CERAMIC	0.1uF		50V	
C153	1-164-159-11	CERAMIC	0.1uF		50V	
C154	1-164-159-11	CERAMIC	0.1uF		50V	
C155	1-164-159-11	CERAMIC	0.1uF		50V	
C302	1-126-934-11	ELECT	220uF	20.00%	10V	
C303	1-130-494-11	MYLAR	0.082uF	5%	50V	
C304	1-137-367-11	MYLAR	0.0033uF	5.00%	50V	
C305	1-130-494-11	MYLAR	0.082uF	5%	50V	
C306	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C307	1-126-964-11	ELECT	10uF	20.00%	50V	
C308	1-126-964-11	ELECT	10uF	20.00%	50V	
C309	1-162-291-31	CERAMIC	560PF	10.00%	50V	
C310	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C311	1-126-961-11	ELECT	2.2uF	20.00%	50V	

Ref. No.	Part No.	Description	Remarks			
C312	1-126-934-11	ELECT	220uF	20.00%	10V	
C313	1-126-934-11	ELECT	220uF	20.00%	10V	
C314	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C315	1-164-159-11	CERAMIC	0.1uF		50V	
C316	1-124-252-00	ELECT	0.33uF	20%	50V	
C317	1-164-159-11	CERAMIC	0.1uF		50V	
C318	1-136-357-11	MYLAR	680PF	5.00%	50V	
C322	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C323	1-136-173-00	MYLAR	0.47uF	5.00%	50V	
C324	1-104-664-11	ELECT	47uF	20.00%	16V	
C325	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C326	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C327	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C328	1-126-163-11	ELECT	4.7uF	20%	50V	
C329	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C330	1-126-163-11	ELECT	4.7uF	20%	50V	
C331	1-124-250-11	ELECT	0.15uF	20.00%	50V	
C332	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C333	1-124-250-11	ELECT	0.15uF	20.00%	50V	
C334	1-137-372-11	MYLAR	0.022uF	5.00%	50V	
C335	1-136-161-00	MYLAR	0.047uF	5.00%	50V	
C336	1-126-934-11	ELECT	220uF	20.00%	10V	
C337	1-126-964-11	ELECT	10uF	20.00%	50V	
C338	1-126-964-11	ELECT	10uF	20.00%	50V	
C339	1-126-964-11	ELECT	10uF	20.00%	50V	
C340	1-126-964-11	ELECT	10uF	20.00%	50V	
C341	1-126-934-11	ELECT	220uF	20.00%	10V	
C342	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C343	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C344	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C345	1-136-165-00	MYLAR	0.1uF	5.00%	50V	
C346	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C347	1-126-163-11	ELECT	4.7uF	20%	50V	
C348	1-126-959-11	ELECT	0.47uF	20.00%	50V	
C349	1-126-163-11	ELECT	4.7uF	20%	50V	
C350	1-124-250-11	ELECT	0.15uF	20.00%	50V	
C351	1-126-962-11	ELECT	3.3uF	20.00%	50V	
C352	1-124-250-11	ELECT	0.15uF	20.00%	50V	
C357	1-164-159-11	CERAMIC	0.1uF		50V	
C359	1-126-163-11	ELECT	4.7uF	20%	50V	
C360	1-126-163-11	ELECT	4.7uF	20%	50V	
C361	1-164-159-11	CERAMIC	0.1uF		50V	
C362	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C370	1-164-159-11	CERAMIC	0.1uF		50V	
C371	1-126-966-11	ELECT	33uF	20.00%	16V	
C401	1-164-159-11	CERAMIC	0.1uF		50V	
C402	1-164-159-11	CERAMIC	0.1uF		50V	
C501	1-126-163-11	ELECT	4.7uF	20%	50V	
C502	1-162-282-31	CERAMIC	100PF	10%	50V	
C503	1-162-282-31	CERAMIC	100PF	10%	50V	
C504	1-102-942-00	CERAMIC	5.0PF		50V	
C506	1-104-665-11	ELECT	100uF	20.00%	16V	
C507	1-126-160-11	ELECT	1uF	20%	50V	
C509	1-137-372-11	MYLAR	0.022uF	5.00%	50V	
C511	1-126-163-11	ELECT	4.7uF	20%	50V	

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C512	1-126-163-11	ELECT	4.7uF	20%	50V	C817	1-126-160-11	ELECT	1uF	20%	50V
C513	1-126-163-11	ELECT	4.7uF	20%	50V	C818	1-104-664-11	ELECT	47uF	20.00%	25V
C514	1-126-160-11	ELECT	1uF	20%	50V						
C515	1-164-159-11	CERAMIC	0.1uF		50V	CC08	1-162-282-31	CERAMIC	100PF	10%	50V
C516	1-126-163-11	ELECT	4.7uF	20%	50V	CC09	1-162-282-31	CERAMIC	100PF	10%	50V
						CC10	1-162-282-31	CERAMIC	100PF	10%	50V
C517	1-162-193-31	CERAMIC	3.3PF	10.00%	50V	CC58	1-162-282-31	CERAMIC	100PF	10%	50V
C519	1-126-160-11	ELECT	1uF	20%	50V	CC59	1-162-282-31	CERAMIC	100PF	10%	50V
C551	1-126-163-11	ELECT	4.7uF	20%	50V						
C553	1-126-160-11	ELECT	1uF	20%	50V	CC60	1-162-282-31	CERAMIC	100PF	10%	50V
C554	1-126-163-11	ELECT	4.7uF	20%	50V	CC401	1-162-282-31	CERAMIC	100PF	10%	50V
						CC403	1-162-282-31	CERAMIC	100PF	10%	50V
C555	1-126-514-11	ELECT	22uF	20.00%	10V	CC405	1-162-282-31	CERAMIC	100PF	10%	50V
C567	1-162-193-31	CERAMIC	3.3PF	10.00%	50V	CC451	1-162-282-31	CERAMIC	100PF	10%	50V
C601	1-126-163-11	ELECT	4.7uF	20%	50V						
C602	1-162-282-31	CERAMIC	100PF	10%	50V	CC453	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-162-282-31	CERAMIC	100PF	10%	50V	CC455	1-162-282-31	CERAMIC	100PF	10%	50V
						CC463	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-102-942-00	CERAMIC	5.0PF		50V	< CONNECTOR >					
C605	1-104-665-11	ELECT	100uF	20.00%	16V	CN801	1-779-978-11	PIN, CONNECTOR 3P			
C607	1-126-160-11	ELECT	1uF	20%	50V	CNS301	1-569-321-11	SOCKET, CONNECTOR 15P			
C609	1-137-372-11	MYLAR	0.022uF	5.00%	50V	CNS302	1-568-443-11	SOCKET, CONNECTOR 13P			
C610	1-126-160-11	ELECT	1uF	20%	50V	CNS800	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
						CNS802	1-770-479-11	PLUG,CONNECTOR PIN(PC BOARD)4P			
C651	1-126-163-11	ELECT	4.7uF	20%	50V	< DIODE >					
C652	1-162-282-31	CERAMIC	100PF	10%	50V	D100	8-719-911-19	DIODE 1SS133T-72			
C653	1-162-282-31	CERAMIC	100PF	10%	50V	D310	8-719-911-19	DIODE 1SS133T-72			
C654	1-102-942-00	CERAMIC	5.0PF		50V	D520	8-719-911-19	DIODE 1SS133T-72			
C655	1-104-665-11	ELECT	100uF	20.00%	16V	D521	8-719-911-19	DIODE 1SS133T-72			
						D550	8-719-911-19	DIODE 1SS133T-72			
C656	1-126-160-11	ELECT	1uF	20%	50V						
C659	1-137-372-11	MYLAR	0.022uF	5.00%	50V	D620	8-719-911-19	DIODE 1SS133T-72			
C660	1-126-160-11	ELECT	1uF	20%	50V	D621	8-719-911-19	DIODE 1SS133T-72			
C701	1-126-163-11	ELECT	4.7uF	20%	50V	D710	8-719-911-19	DIODE 1SS133T-72			
C702	1-162-282-31	CERAMIC	100PF	10%	50V	D720	8-719-911-19	DIODE 1SS133T-72			
						D721	8-719-911-19	DIODE 1SS133T-72			
C703	1-162-282-31	CERAMIC	100PF	10%	50V						
C704	1-102-942-00	CERAMIC	5.0PF		50V	D731	8-719-911-19	DIODE 1SS133T-72			
C706	1-126-160-11	ELECT	1uF	20%	50V	D801	8-719-028-23	DIODE D3SBA20-4101			
C708	1-126-160-11	ELECT	1uF	20%	50V	D810	8-719-024-99	DIODE 11ES2-NTA2B			
C709	1-137-372-11	MYLAR	0.022uF	5.00%	50V	D811	8-719-024-99	DIODE 11ES2-NTA2B			
						D812	8-719-986-54	DIODE HZS24-1LTA			
C715	1-104-665-11	ELECT	100uF	20.00%	16V						
C730	1-126-934-11	ELECT	220uF	20.00%	10V	D813	8-719-109-85	DIODE MTZJ-T-72-5.1B			
C732	1-164-159-11	CERAMIC	0.1uF		50V	D814	8-719-043-76	DIODE AK04V1			
C751	1-126-163-11	ELECT	4.7uF	20%	50V	D820	8-719-024-99	DIODE 11ES2-NTA2B			
C752	1-162-282-31	CERAMIC	100PF	10%	50V	D821	8-719-024-99	DIODE 11ES2-NTA2B			
						D822	8-719-024-99	DIODE 11ES2-NTA2B			
C753	1-162-282-31	CERAMIC	100PF	10%	50V						
C754	1-102-942-00	CERAMIC	5.0PF		50V	D823	8-719-024-99	DIODE 11ES2-NTA2B			
C756	1-126-160-11	ELECT	1uF	20%	50V	D850	8-719-911-19	DIODE 1SS133T-72			
C758	1-126-160-11	ELECT	1uF	20%	50V	D853	8-719-911-19	DIODE 1SS133T-72			
C759	1-137-372-11	MYLAR	0.022uF	5.00%	50V	< EARTH >					
						* G200	1-537-738-21	TERMINAL, EARTH			
C765	1-104-665-11	ELECT	100uF	20.00%	16V	* G201	1-537-738-21	TERMINAL, EARTH			
C801	1-136-169-00	MYLAR	0.22uF	5.00%	50V	* G202	1-537-738-21	TERMINAL, EARTH			
C802	1-136-169-00	MYLAR	0.22uF	5.00%	50V	< IC >					
C803	1-126-256-11	ELECT	4700uF	20.00%	35V	IC100	8-759-537-31	IC M62447SP			
C804	1-126-256-11	ELECT	4700uF	20.00%	35V	IC300	8-759-527-00	IC LV1035M			
						IC302	8-759-636-74	IC M5218AP-22			
C807	1-104-664-11	ELECT	47uF	20.00%	25V	IC401	8-759-000-48	IC MC14052BCP			
C808	1-104-664-11	ELECT	47uF	20.00%	25V	IC500	8-759-545-64	IC LC78212			
C809	1-126-160-11	ELECT	1uF	20%	50V						
C810	1-126-160-11	ELECT	1uF	20%	50V						
C811	1-126-942-61	ELECT	1000uF	20.00%	25V						
C812	1-126-941-11	ELECT	470uF	20.00%	25V						
C813	1-101-001-00	CERAMIC	0.001uF		50V						
C814	1-101-001-00	CERAMIC	0.001uF		50V						
C815	1-126-948-11	ELECT	100uF	20.00%	35V						
C816	1-126-967-11	ELECT	47uF	20.00%	50V						

MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
IC501	8-759-502-33	IC SI-18752		R111	1-249-433-11	CARBON 22K 5%	1/4W
IC502	8-759-636-74	IC M5218AP-22		R112	1-249-433-11	CARBON 22K 5%	1/4W
IC503	8-759-636-74	IC M5218AP-22		R113	1-249-433-11	CARBON 22K 5%	1/4W
IC601	8-759-502-33	IC SI-18752		R114	1-247-807-31	CARBON 100 5%	1/4W
IC651	8-759-502-33	IC SI-18752		R115	1-247-807-31	CARBON 100 5%	1/4W
IC701	8-759-502-33	IC SI-18752		R116	1-247-807-31	CARBON 100 5%	1/4W
IC751	8-759-502-33	IC SI-18752		R117	1-249-437-11	CARBON 47K 5%	1/4W
IC801	8-759-605-00	IC M5F78M07L		R150	1-249-417-11	CARBON 1K 5%	1/4W F
IC802	8-759-604-95	IC M5F79M07L		R151	1-249-417-11	CARBON 1K 5%	1/4W F
IC803	8-759-701-59	IC M5F78M09L		R152	1-249-417-11	CARBON 1K 5%	1/4W F
< JACK >				R153	1-249-417-11	CARBON 1K 5%	1/4W F
J401	1-779-381-11	JACK, PIN 6P (5.1CH/DVD)		R154	1-249-417-11	CARBON 1K 5%	1/4W F
J402	1-691-887-11	JACK, PIN 6P (DVD 2CH VIDEO2/TV/VIDEO)		R155	1-247-807-31	CARBON 100 5%	1/4W
J404	1-774-785-11	JACK, PIN 1P (WOOFER MIX-OUT)		R156	1-249-441-11	CARBON 100K 5%	1/4W
< COIL >				R157	1-249-441-11	CARBON 100K 5%	1/4W
L301	1-410-509-11	INDUCTOR 10uH		R158	1-249-441-11	CARBON 100K 5%	1/4W
L507	1-420-872-00	COIL, AIR-CORE		R159	1-249-441-11	CARBON 100K 5%	1/4W
L607	1-420-872-00	COIL, AIR-CORE		R160	1-249-441-11	CARBON 100K 5%	1/4W
L657	1-420-872-00	COIL, AIR-CORE		R161	1-249-437-11	CARBON 47K 5%	1/4W
L707	1-420-872-00	COIL, AIR-CORE		R162	1-249-433-11	CARBON 22K 5%	1/4W
L757	1-420-872-00	COIL, AIR-CORE		R163	1-249-433-11	CARBON 22K 5%	1/4W
< TRANSISTOR >				R164	1-249-433-11	CARBON 22K 5%	1/4W
Q150	8-729-823-22	TRANSISTOR 2SC3576-AC		R165	1-249-433-11	CARBON 22K 5%	1/4W
Q151	8-729-823-22	TRANSISTOR 2SC3576-AC		R166	1-249-433-11	CARBON 22K 5%	1/4W
Q152	8-729-823-22	TRANSISTOR 2SC3576-AC		R167	1-249-425-11	CARBON 4.7K 5%	1/4W F
Q153	8-729-823-22	TRANSISTOR 2SC3576-AC		R168	1-249-441-11	CARBON 100K 5%	1/4W
Q154	8-729-823-22	TRANSISTOR 2SC3576-AC		R169	1-249-441-11	CARBON 100K 5%	1/4W
Q155	8-729-823-22	TRANSISTOR 2SC3576-AC		R170	1-249-441-11	CARBON 100K 5%	1/4W
Q367	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R300	1-249-903-00	CARBON 1M 5%	1/4W
Q520	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R303	1-249-439-11	CARBON 68K 5%	1/4W
Q550	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R304	1-249-411-11	CARBON 330 5%	1/4W
Q551	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R306	1-249-436-11	CARBON 39K 5%	1/4W
Q620	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R307	1-249-429-11	CARBON 10K 5%	1/4W
Q720	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R308	1-249-429-11	CARBON 10K 5%	1/4W
Q730	8-729-119-78	TRANSISTOR 2SC2785TP-HFE		R309	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q731	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA		R340	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q732	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R341	1-249-421-11	CARBON 2.2K 5%	1/4W F
Q851	8-729-119-76	TRANSISTOR 2SA1115TP-F		R342	1-249-441-11	CARBON 100K 5%	1/4W
Q853	8-729-140-97	TRANSISTOR 2SB734-T-34		R343	1-249-441-11	CARBON 100K 5%	1/4W
Q854	8-729-140-97	TRANSISTOR 2SB734-T-34		R357	1-249-441-11	CARBON 100K 5%	1/4W
Q855	8-729-119-76	TRANSISTOR 2SA1115TP-F		R358	1-249-441-11	CARBON 100K 5%	1/4W
< RESISTOR >				R359	1-249-429-11	CARBON 10K 5%	1/4W
R100	1-249-433-11	CARBON 22K 5%	1/4W	R360	1-249-429-11	CARBON 10K 5%	1/4W
R101	1-249-433-11	CARBON 22K 5%	1/4W	R365	1-249-425-11	CARBON 4.7K 5%	1/4W F
R103	1-249-433-11	CARBON 22K 5%	1/4W	R374	1-249-429-11	CARBON 10K 5%	1/4W
R104	1-247-807-31	CARBON 100 5%	1/4W	R375	1-249-429-11	CARBON 10K 5%	1/4W
R105	1-247-807-31	CARBON 100 5%	1/4W	R381	1-247-807-31	CARBON 100 5%	1/4W
R106	1-247-879-11	CARBON 100K 5%	1/4W	R382	1-247-807-31	CARBON 100 5%	1/4W
R107	1-247-807-31	CARBON 100 5%	1/4W	R383	1-247-807-31	CARBON 100 5%	1/4W
R108	1-249-433-11	CARBON 22K 5%	1/4W	△ R397	1-249-405-11	CARBON 100 5%	1/4W F
R109	1-249-433-11	CARBON 22K 5%	1/4W	R399	1-247-847-11	CARBON 4.7K 570	1/4W
R110	1-249-433-11	CARBON 22K 5%	1/4W	R401	1-249-417-11	CARBON 1K 5%	1/4W F
				R403	1-249-417-11	CARBON 1K 5%	1/4W F
				R405	1-249-417-11	CARBON 1K 5%	1/4W F
				R408	1-249-417-11	CARBON 1K 5%	1/4W F

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Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
R409	1-249-417-11	CARBON	1K	5%	1/4W	F	R702	1-249-433-11	CARBON	22K	5%	1/4W	
R410	1-249-417-11	CARBON	1K	5%	1/4W	F	R707	1-249-389-11	CARBON	4.7	5%	1/4W	F
R451	1-249-417-11	CARBON	1K	5%	1/4W	F	R708	1-249-437-11	CARBON	47K	5%	1/4W	
R453	1-249-417-11	CARBON	1K	5%	1/4W	F	△ R709	1-249-393-11	CARBON	10	5%	1/4W	F
R455	1-249-417-11	CARBON	1K	5%	1/4W	F	R719	1-249-437-11	CARBON	47K	5%	1/4W	
R458	1-249-417-11	CARBON	1K	5%	1/4W	F	R721	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R459	1-249-417-11	CARBON	1K	5%	1/4W	F	R722	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R460	1-249-417-11	CARBON	1K	5%	1/4W	F	R723	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-247-807-31	CARBON	100	5%	1/4W		R730	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R502	1-249-433-11	CARBON	22K	5%	1/4W		R731	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-433-11	CARBON	22K	5%	1/4W		R732	1-249-435-11	CARBON	33K	5%	1/4W	
R507	1-249-389-11	CARBON	4.7	5%	1/4W	F	R733	1-249-429-11	CARBON	10K	5%	1/4W	
R508	1-249-437-11	CARBON	47K	5%	1/4W		△ R740	1-249-401-11	CARBON	47	5%	1/4W	F
△ R509	1-249-393-11	CARBON	10	5%	1/4W	F	R742	1-249-433-11	CARBON	22K	5%	1/4W	
R512	1-249-441-11	CARBON	100K	5%	1/4W		R750	1-249-417-11	CARBON	1K	5%	1/4W	F
R513	1-249-429-11	CARBON	10K	5%	1/4W		R751	1-247-807-31	CARBON	100	5%	1/4W	
R514	1-249-429-11	CARBON	10K	5%	1/4W		R752	1-249-433-11	CARBON	22K	5%	1/4W	
R515	1-249-419-11	CARBON	1.5K	5%	1/4W	F	R754	1-249-433-11	CARBON	22K	5%	1/4W	
R516	1-249-419-11	CARBON	1.5K	5%	1/4W	F	R757	1-249-389-11	CARBON	4.7	5%	1/4W	F
R517	1-249-429-11	CARBON	10K	5%	1/4W		R758	1-249-437-11	CARBON	47K	5%	1/4W	
R518	1-249-429-11	CARBON	10K	5%	1/4W		△ R759	1-249-393-11	CARBON	10	5%	1/4W	F
R519	1-249-863-11	CARBON	22K	5%	1/4W	F	R760	1-249-407-11	CARBON	150	5%	1/4W	F
R520	1-249-835-11	CARBON	1.5K	5%	1/4W	F	R761	1-249-407-11	CARBON	150	5%	1/4W	F
R521	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R762	1-249-407-11	CARBON	150	5%	1/4W	F
R522	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R763	1-249-407-11	CARBON	150	5%	1/4W	F
R523	1-249-433-11	CARBON	22K	5%	1/4W		R764	1-249-407-11	CARBON	150	5%	1/4W	F
△ R540	1-249-401-11	CARBON	47	5%	1/4W	F	R765	1-249-407-11	CARBON	150	5%	1/4W	F
R550	1-249-429-11	CARBON	10K	5%	1/4W		R766	1-249-407-11	CARBON	150	5%	1/4W	F
R551	1-249-441-11	CARBON	100K	5%	1/4W		R767	1-249-407-11	CARBON	150	5%	1/4W	F
R552	1-247-843-11	CARBON	3.3K	5%	1/4W		R768	1-249-407-11	CARBON	150	5%	1/4W	F
R553	1-249-429-11	CARBON	10K	5%	1/4W		R769	1-249-437-11	CARBON	47K	5%	1/4W	
R554	1-249-416-11	CARBON	820	5%	1/4W	F	R770	1-249-407-11	CARBON	150	5%	1/4W	F
R555	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R810	1-249-386-11	CARBON	2.7	5%	1/6W	F
R556	1-249-439-11	CARBON	68K	5%	1/4W		R811	1-249-386-11	CARBON	2.7	5%	1/6W	F
R557	1-247-887-00	CARBON	220K	5%	1/4W		△ R812	1-249-409-11	CARBON	220	5%	1/4W	F
R558	1-249-441-11	CARBON	100K	5%	1/4W		△ R850	1-249-408-11	CARBON	180	5%	1/4W	F
R581	1-249-437-11	CARBON	47K	5%	1/4W		R851	1-249-433-11	CARBON	22K	5%	1/4W	
R599	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R852	1-249-429-11	CARBON	10K	5%	1/4W	
R601	1-247-807-31	CARBON	100	5%	1/4W		R855	1-249-433-11	CARBON	22K	5%	1/4W	
R602	1-249-433-11	CARBON	22K	5%	1/4W		R856	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R604	1-249-433-11	CARBON	22K	5%	1/4W		R857	1-249-433-11	CARBON	22K	5%	1/4W	
R607	1-249-389-11	CARBON	4.7	5%	1/4W	F	R860	1-249-434-11	CARBON	27K	5%	1/4W	
R608	1-249-437-11	CARBON	47K	5%	1/4W		R861	1-249-434-11	CARBON	27K	5%	1/4W	
△ R609	1-249-393-11	CARBON	10	5%	1/4W	F	R862	1-249-434-11	CARBON	27K	5%	1/4W	
R621	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R863	1-249-433-11	CARBON	22K	5%	1/4W	
R622	1-249-425-11	CARBON	4.7K	5%	1/4W	F	R864	1-215-866-11	METAL OXIDE	330	5%	1W	
R623	1-249-433-11	CARBON	22K	5%	1/4W		R865	1-249-437-11	CARBON	47K	5%	1/4W	
△ R640	1-249-401-11	CARBON	47	5%	1/4W	F	R866	1-249-437-11	CARBON	47K	5%	1/4W	
R651	1-247-807-31	CARBON	100	5%	1/4W		R901	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R652	1-249-433-11	CARBON	22K	5%	1/4W		< RELAY >						
R654	1-249-433-11	CARBON	22K	5%	1/4W		RY301	1-755-267-11	RELAY				
R657	1-249-389-11	CARBON	4.7	5%	1/4W	F	RY501	1-755-170-11	RELAY (12V)				
R658	1-249-437-11	CARBON	47K	5%	1/4W		RY601	1-755-170-11	RELAY (12V)				
△ R659	1-249-393-11	CARBON	10	5%	1/4W	F	RY701	1-755-170-11	RELAY (12V)				
R701	1-247-807-31	CARBON	100	5%	1/4W								

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TA-VE170

MAIN	PRIMARY	PW.SW	SECONDARY	STANDBY
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
< TERMINAL >				D914	8-719-911-19	DIODE 1SS133T-72	
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER)(6P)(SPEAKER REAR/CENTER)		D915	8-719-911-19	DIODE 1SS133T-72	
TM701	1-537-240-11	TERMINAL BOARD (CHECKER PIN)(SPEAKER FRONT)		< FUSE >			
< VIBRATOR >				△ F901	1-532-463-51	FUSE. TIME LAG 1A/250V	
X301	1-579-952-21	VIBRATOR, CERAMIC (8MHz)		< IC >			
*****				IC950	8-759-333-83	IC NJM2103D	
1-678-811-11 PRIMARY BOARD				< TRANSISTOR >			
*****				Q901	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
*****				Q951	8-729-026-68	TRANSISTOR 2SD2525(TP)	
1-678-814-11 PW.SW BOARD				< RESISTOR >			
*****				R902	1-249-437-11	CARBON 47K 5% 1/4W	
< SWITCH >				R950	1-249-421-11	CARBON 2.2K 5% 1/4W	F
S200	1-762-875-21	SWITCH, KEYBOARD (I/⏻)		R951	1-249-425-11	CARBON 4.7K 5% 1/4W	F
*****				R952	1-247-843-11	CARBON 3.3K 5% 1/4W	
1-678-812-11 SECONDARY BOARD				R953	1-249-433-11	CARBON 22K 5% 1/4W	
*****				R954	1-249-437-11	CARBON 47K 5% 1/4W	
< RESISTOR >				R955	1-249-429-11	CARBON 10K 5% 1/4W	
△ R801	1-249-381-11	CARBON 1 5% 1/4W	F	R956	1-247-843-11	CARBON 3.3K 5% 1/4W	
△ R802	1-249-381-11	CARBON 1 5% 1/4W	F	R957	1-249-417-11	CARBON 1K 5% 1/4W	F
*****				R958	1-249-421-11	CARBON 2.2K 5% 1/4W	F
A-4473-760-A STANDBY BOARD, COMPLETE				< RELAY >			
*****				△ RY901	1-755-198-11	RELAY	
1-533-293-11 FUSE HOLDER				< TRANSFORMER >			
< CAPACITOR >				△ T902	1-431-739-11	TRANSFORMER, POWER	
C920	1-161-494-00	CERAMIC 0.022uF 25V		*****			
C921	1-161-494-00	CERAMIC 0.022uF 25V		MISCELLANEOUS			
C950	1-126-767-11	ELECT 1000uF 20.00% 16V		*****			
C951	1-164-159-11	CERAMIC 0.1uF 50V		6	1-777-353-11	WIRE (FLAT TYPE) (15 CORE)	
C952	1-126-960-11	ELECT 1uF 20.00% 50V		8	1-769-973-11	WIRE (FLAT TYPE) (13 CORE)	
C953	1-124-464-11	ELECT 0.22uF 20% 50V		FAN1	1-763-137-11	FAN, DC	
C954	1-126-964-11	ELECT 10uF 20.00% 50V		△ T900	1-431-979-11	TRANSFORMER, POWER	
C955	1-164-159-11	CERAMIC 0.1uF 50V		△ PC900	1-777-071-21	CORD, POWER	
C957	1-164-159-11	CERAMIC 0.1uF 50V		*****			
< CONNECTOR >				ACCESSORIES & PACKING MATERIALS			
CNP902	1-564-321-00	PIN, CONNECTOR 2P		*****			
< DIODE >				△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK,HK)	
D901	8-719-911-19	DIODE 1SS133T-72					
D910	8-719-024-99	DIODE 11ES2-NTA2B					
D911	8-719-024-99	DIODE 11ES2-NTA2B					
D912	8-719-024-99	DIODE 11ES2-NTA2B					
D913	8-719-024-99	DIODE 11ES2-NTA2B					

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