

TA-S7AV

SERVICE MANUAL

Ver 1.0 2001.04

*AEP Model
UK Model
E Model
Australian Model*



TA-S7AV is the Amplifier section
in MHC-S7AV.

SPECIFICATIONS

Amplifier section

European model: Front Speaker:

DIN power output (rated) 95 + 95 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
120 + 120 watts
(6 ohms at 1 kHz, 10%
THD)
Music power output (reference)
200 + 200 watts
(6 ohms at 1 kHz, 10%
THD)

Center Speaker:

DIN power output (rated) 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 watts
(8 ohms at 1 kHz, 10%
THD)
Music power output (reference)
75 watts
(8 ohms at 1 kHz, 10%
THD)

Rear Speaker:

DIN power output (rated) 30 + 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 + 40 watts
(8 ohms at 1 kHz, 10%
THD)
Music power output (reference)
75 + 75 watts
(8 ohms at 1 kHz, 10%
THD)

Other models:

The following measured at AC 120, 220, 240 V,
50/60 Hz

Front Speaker:

DIN power output (rated) 95 + 95 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
120 + 120 watts
(6 ohms at 1 kHz, 10%
THD)

Center Speaker:

DIN power output (rated) 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 watts
(8 ohms at 1 kHz, 10%
THD)

Rear Speaker:

DIN power output (rated) 30 + 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference)
40 + 40 watts
(8 ohms at 1 kHz, 10%
THD)

Inputs

VIDEO (AUDIO) IN: voltage 250 mV,
(phono jacks) impedance 47 kilohms
MD IN: voltage 450 mV,
(phono jacks) impedance 47 kilohms
OPTICAL IN:
(Square optical connector jacks, rear panel)
wavelength 700 nm
MIC: sensitivity 1 mV,
(Except for impedance 10 kilohms
European model)
(phone jack)

Outputs

MD OUT: voltage 250 mV
(phono jacks) impedance 1 kilohms
PHONES: accepts headphones of
(stereo mini jack) 8 ohms or more
FRONT SPEAKER: accepts impedance of 6 to
16 ohms
REAR SPEAKER: accepts impedance of 8 to
16 ohms
CENTER SPEAKER: accepts impedance of 8 to
16 ohms
SUB WOOFER OUT: Voltage 1 V,
impedance 1 kilohms

General

Power requirements
European model: 230 V AC, 50/60 Hz
Australian model: 230 – 240 V AC,
50/60 Hz
Mexican model: 120 V AC, 60 Hz
Korean model: 220 V AC, 60 Hz
Power consumption
European model: 300 watts
0.6 watts (during Power
Saving Mode)
300 watts
Other models:

Dimensions (w/h/d) Approx. 280 x 128 x 350 mm
Mass Approx. 7.7 kg

Design and specifications are subject to change
without notice.

AV AMPLIFIER

9-873-836-11
2001D0500-1
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Sony Corporation
Home Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

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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.

SECTION 1 SERVICING NOTES

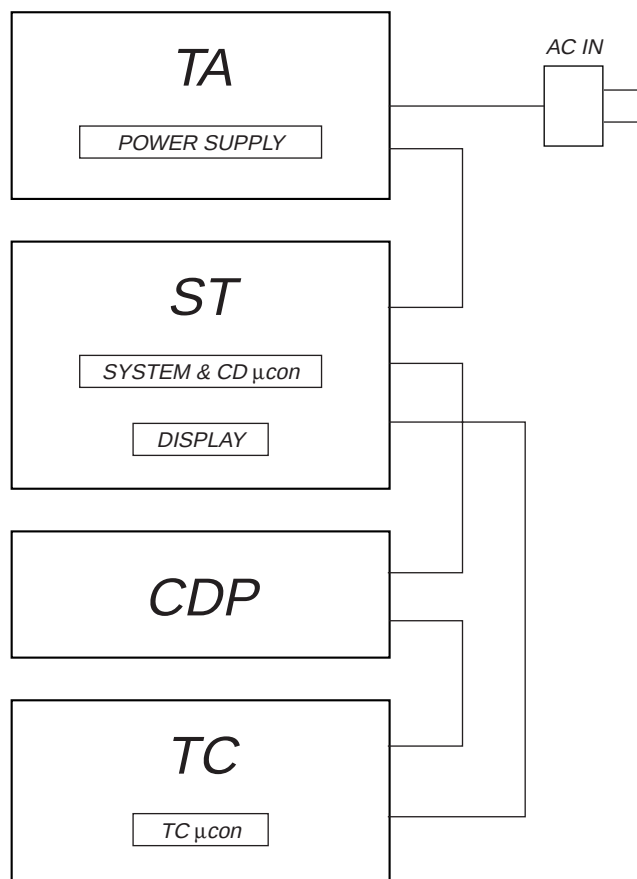
This set is a component of the MHC-S7AV.

The MHC-S7AV system configuration is as shown below, and therefore it does not operate normally unless all four components are connected.

In performing the repair, connect all components with the system cables.

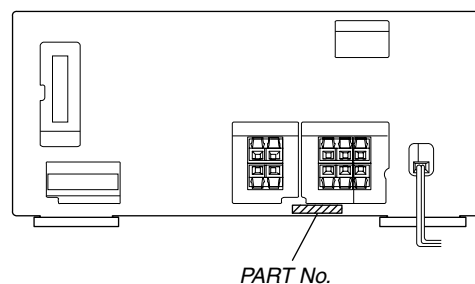
Note: The precaution to the users is described on the label stuck on the back panel (CD player) and in the troubleshooting section in the Operation Manual.

System Configuration:



MODEL IDENTIFICATION

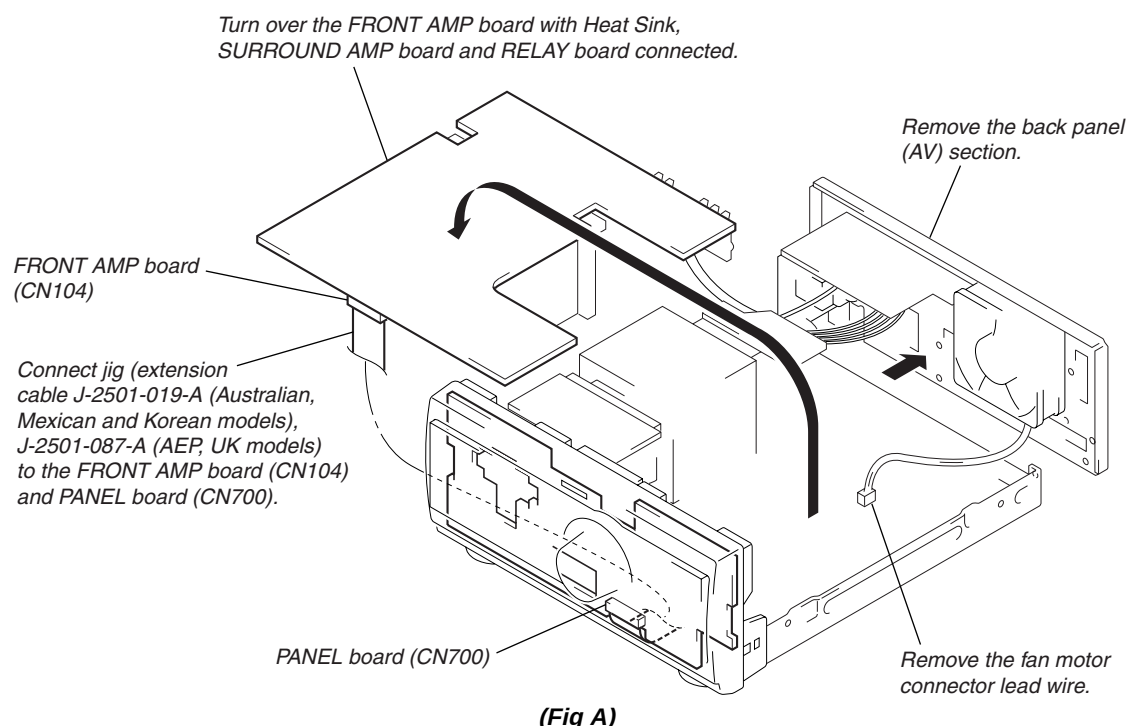
– Back Panel –



Model	PART No.
AEP model	4-232-337-0□
UK model	4-232-337-3□
Australian model	4-232-337-5□
Mexican model	4-232-337-7□
Korean model	4-232-337-8□

FRONT AMP BOARD SERVICE POSITION

In checking the FRONT AMP board, prepare jig (extension cable J-2501-019-A: 1.25 mm Pitch, 25 core, Length 300 mm) (Australian, Mexican and Korean models) (extension cable J-2501-087-A: 1.25 mm Pitch, 23 core, Length 300 mm) (AEP, UK models) (Fig A)

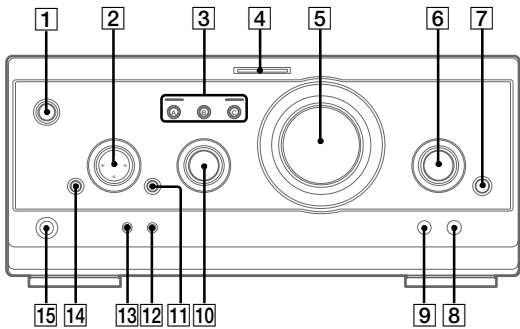


This section is extracted from instruction manual.

Parts Identification

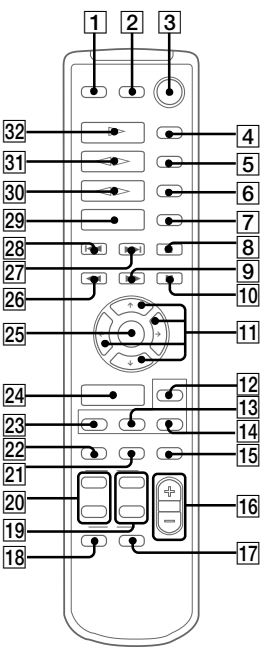
The items are arranged in alphabetical order.
Refer to the pages indicated in parentheses () for details.

Main unit



- CINEMA STUDIO A-C **3** (24)
- DIGITAL **7** (31, 35)
- ENTER/**↑/↓/←/→** **2** (10, 12, 13, 15, 21, 22, 26–30)
- EQ **11** (27)
- EQ ON/OFF **12** (10, 27)
- FILE SELECT **10** (23, 28)
- FUNCTION **6** (10, 14, 15, 20, 21, 31)
- MIC jack (Except for European model) **9** (31)
- MIC LEVEL (Except for European model) **8** (31)
- MULTI CHANNEL DECODING indicator **4** (25)
- PHONES jack **15**
- SET UP **13** (10, 12, 26, 28, 29)
- SUR **14** (25)
- VOLUME **5**
- I/⏻** (power) **1** (9, 10, 17, 35)

Remote Control



- CD **32** (14, 15)
- CHECK **5** (15)
- CLEAR **6** (15)
- CLOCK/TIMER SELECT **17** (30)
- CLOCK/TIMER SET **18** (13, 21, 29)
- DBFB **15** (23)
- DISPLAY **22** (13, 16, 18, 29, 35)
- D.SKIP **4** (14)
- ENTER **25** (10, 12, 13, 15, 17, 18, 21, 22, 26–30)
- EQ **13** (27)
- EQ ON/OFF **14** (10, 28)
- FUNCTION **24** (10, 14, 15, 20, 21, 31)
- GROOVE **21** (23)
- SET UP **12** (10, 12, 26, 28, 29)
- SLEEP **7** (29)
- SUR **23** (25)
- TAPE A **31** (19, 35)
- TAPE B **30** (19, 20, 35)
- TUNER/BAND **29** (17)
- TUNING + **9** (17)
- TUNING - **26** (17)
- TV CH +/- **19**
- TV VOL +/- **20**
- TV **I/⏻** **2**
- TV/VIDEO **1**
- VOL +/- **16**

BUTTON DESCRIPTIONS

- I/⏻** (power) **3**
- ||** (pause) **10**
- (stop) **8**
- ◀◀** (go back) **28**
- ▶▶** (go forward) **27**
- ◀◀** (rewind) **26**
- ▶▶** (fast forward) **9**
- ↑/↓/←/→** **11**

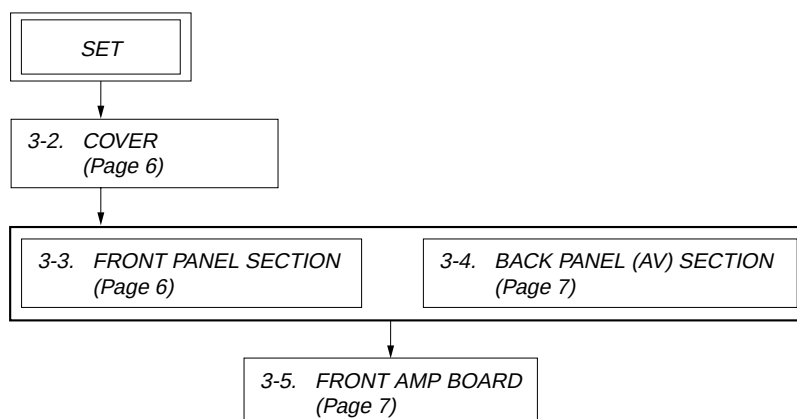
SECTION 3 DISASSEMBLY

- This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

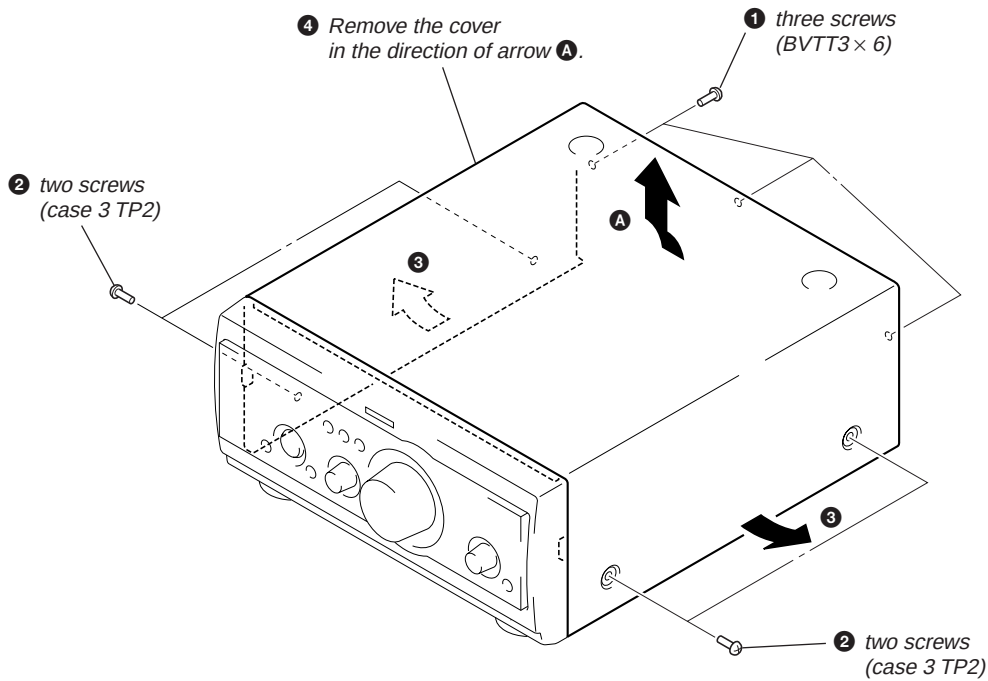
Note 1: The process described in  can be performed in any order.

Note 2: Without completing the process described in , the next process can not be performed.

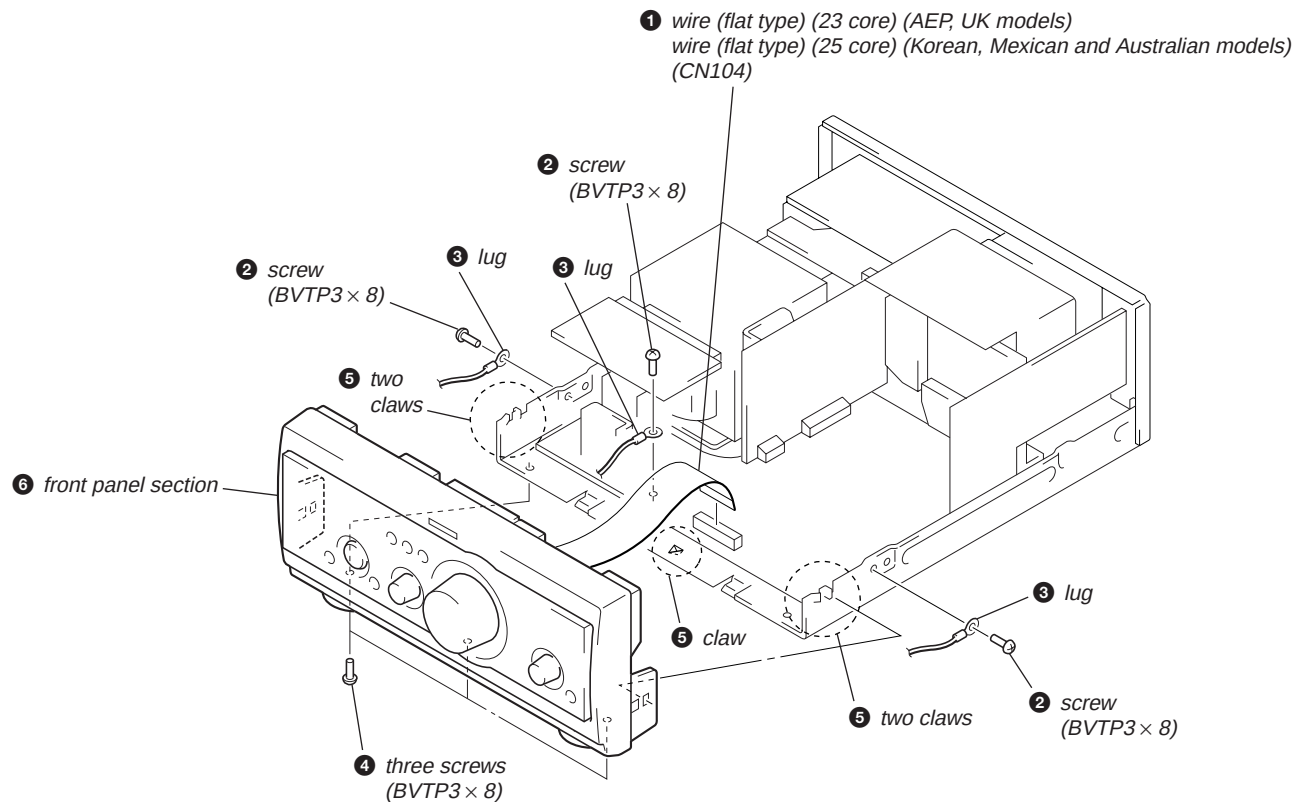


Note: Follow the disassembly procedure in the numerical order given.

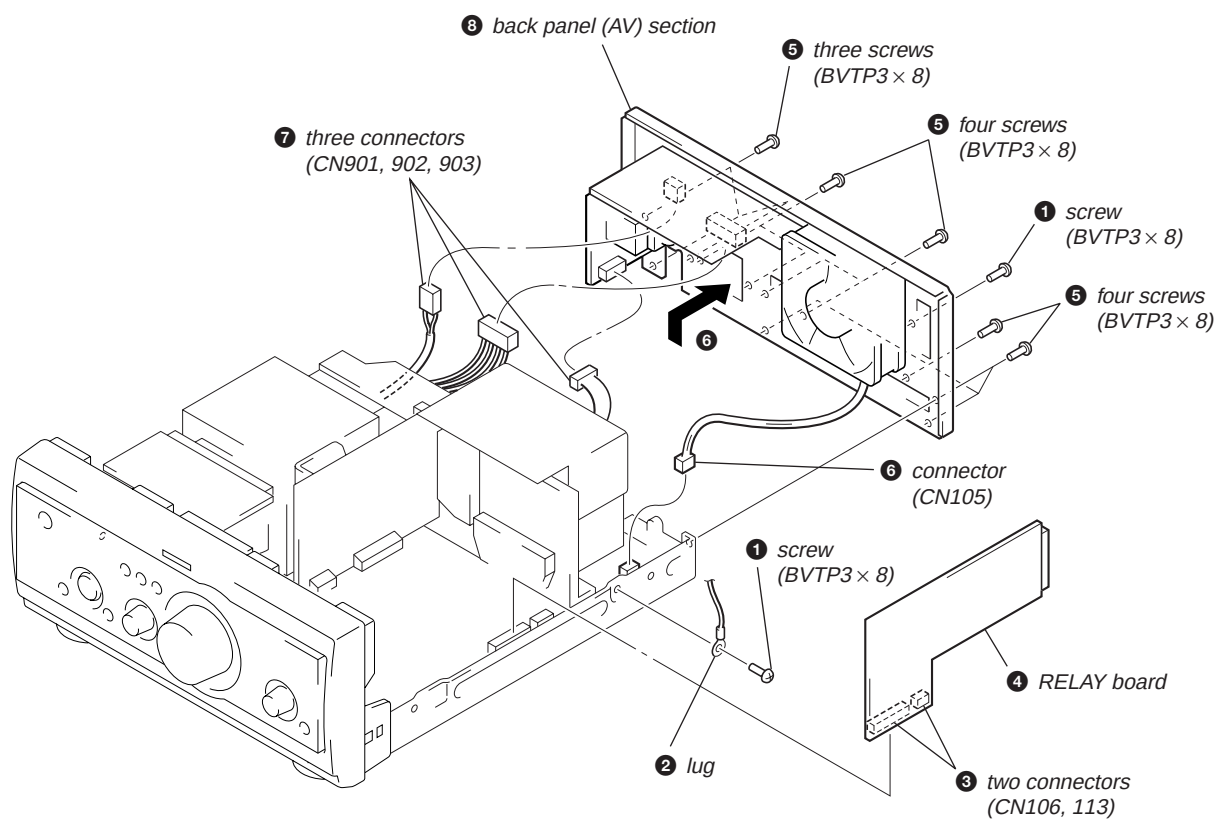
3-2. COVER



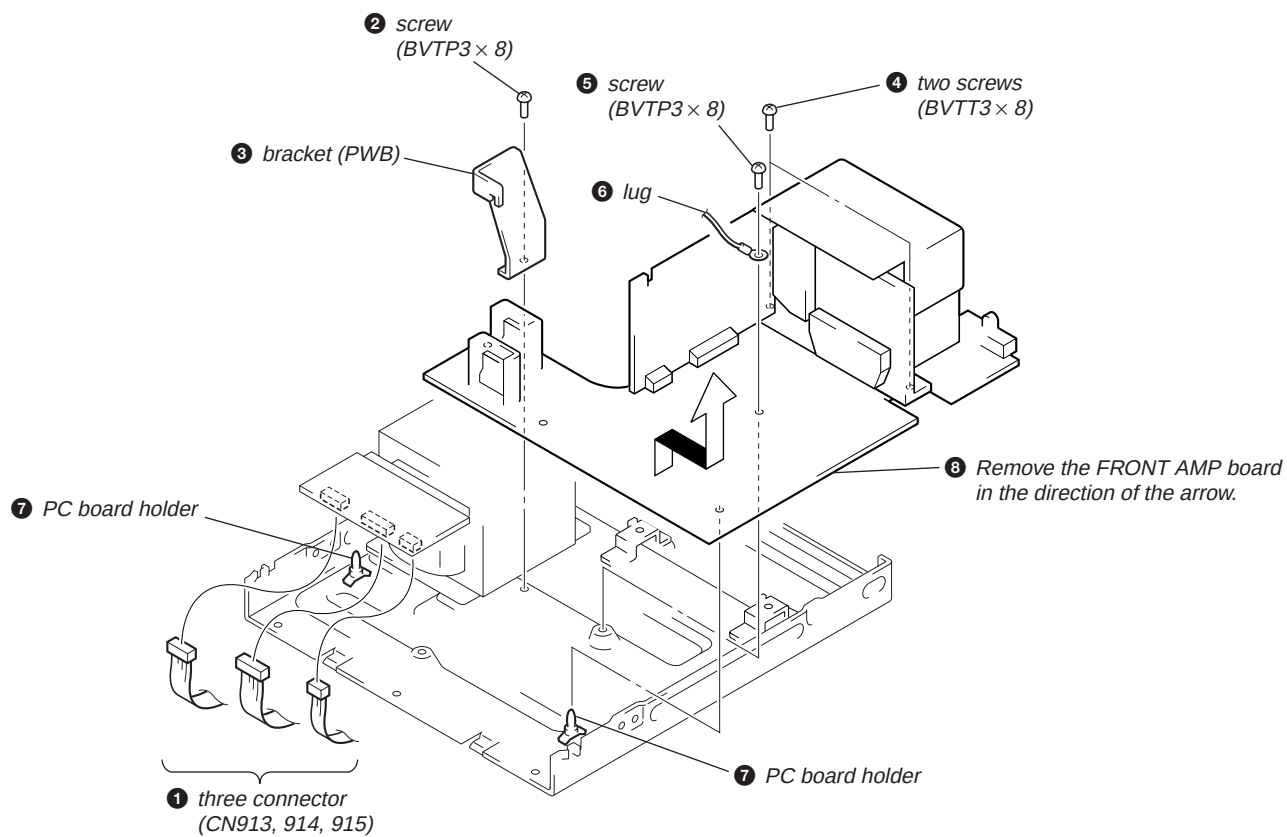
3-3. FRONT PANEL SECTION



3-4. BACK PANEL (AV) SECTION



3-5. FRONT AMP BOARD



SECTION 4

TEST MODE

Note: Use flowing buttons in the test mode.

no mark : Button of amplifier unit (TA-S7AV)

*1 : Button of tuner unit (ST-S5)

*2 : Button of CD unit (CDP-S3)

[MC Test Mode]

Enter the MC Test Mode

1. Press the **I/⏻** button to turn the power on.
2. While pressing the both **[STEREO/MONO]** *1 and **[CINEMA STUDIO C]** buttons, press the **[CINEMA STUDIO A]** button.
3. "GROOVE" indication blinks on the fluorescent indicator tube in the midst of MC test mode.
4. This mode has two modes (mode 1/mode 2).
5. To change the modes, press three buttons in the same manner as entering this mode (step 2). Each time the step 2 operation is repeated, it changes modes alternately.
6. To distinguish the mode, turn the **[VOLUME]** knob clockwise or counterclockwise. Then display is shown as follows.

Mode 1: only "MIN" or "MAX"

Mode 2: "MIN", "1 to 30" or "MAX"

AMP Test Mode

In the AMP test mode, it operates as follows.

- **[VOLUME]** knob is turned, it changes display as follows.
Counterclockwise : VOLUME MIN
Clockwise : VOLUME MAX
- **[FILE SELECT]** knob is turned, it changes speaker output mode as follows.

Display of each mode:

Mode No.	Display	
1	L: L	R: R
2	L: SL	R: SR
3	L: LSLC	R: RSRW
4	L: LSLC	R: RSRW
5	L: C	R: W

Details of each mode:

Mode 1 : L-CH: front L-CH
R-CH: front R-CH

Mode 2 : L-CH: rear L-CH
R-CH: rear R-CH

Mode 3 : L-CH: front L-CH, rear L-CH, center
R-CH: front R-CH, rear R-CH, sub woofer
(no LFE, "EQ" indication does not light up on the fluorescent indicator tube of tuner unit)

Mode 4 : L-CH: front L-CH, rear L-CH, center
R-CH: front R-CH, rear R-CH, sub woofer
(LFE on, "EQ" indication lights up on the fluorescent indicator tube of tuner unit)

Mode 5 : L-CH: center
R-CH: sub woofer

Releasing the MC Test Mode

To release from this mode, press the **I/⏻** button or disconnect the power cord.

[GC Test Mode]

Enter the GC Test Mode

Procedure 1:

1. Press the **I/⏻** button to turn the power on.
2. While pressing the both **[STEREO/MONO]** *1 and **[CINEMA STUDIO C]** buttons, press the **[CLOCK/TIMER]** *1 button.
3. LEDs and fluorescent indicator tube are all turned on of all units.

Procedure 2:

1. Press the **I/⏻** button to turn the power on.
2. While pressing the both **[PLAY MODE]** *2 and **[■]** *2 buttons, press the **[▲]** (DISC 1) *2 button.
3. LEDs and fluorescent indicator tube are all turned on of all units.

Version Display Mode

Procedure:

1. Enter the GC test mode.
2. Each time the **[TUNER MEMORY]** *1 or **[DISC 1]** *2 button is pressed, microcomputer or mechanism deck version is displayed of each unit.
3. Press the **[TUNING +]** *1 or **[DISC 3]** *2 button to detail is displayed the version.

Key Check Mode

Procedure:

1. Enter the GC test mode.
2. Press the **[TUNING -]** *1 or **[DISC 2]** *2 button to set the key check mode.
3. In the key check mode, the fluorescent indicator tube displays "K 0 J 0 V 0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" value increases like 1, 2, 3 ... if turn the **[FILE SELECT]** knob clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
"V" value increases like 1, 2, 3 ... if turn the **[VOLUME]** knob clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.

Releasing the GC Test Mode

To release from this mode, press three buttons in the same manner as entering this mode or disconnect the power cord.

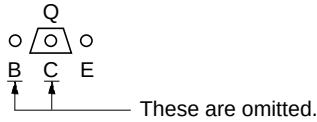
MEMO

SECTION 5 DIAGRAMS

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

Note on Printed Wiring Boards:

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



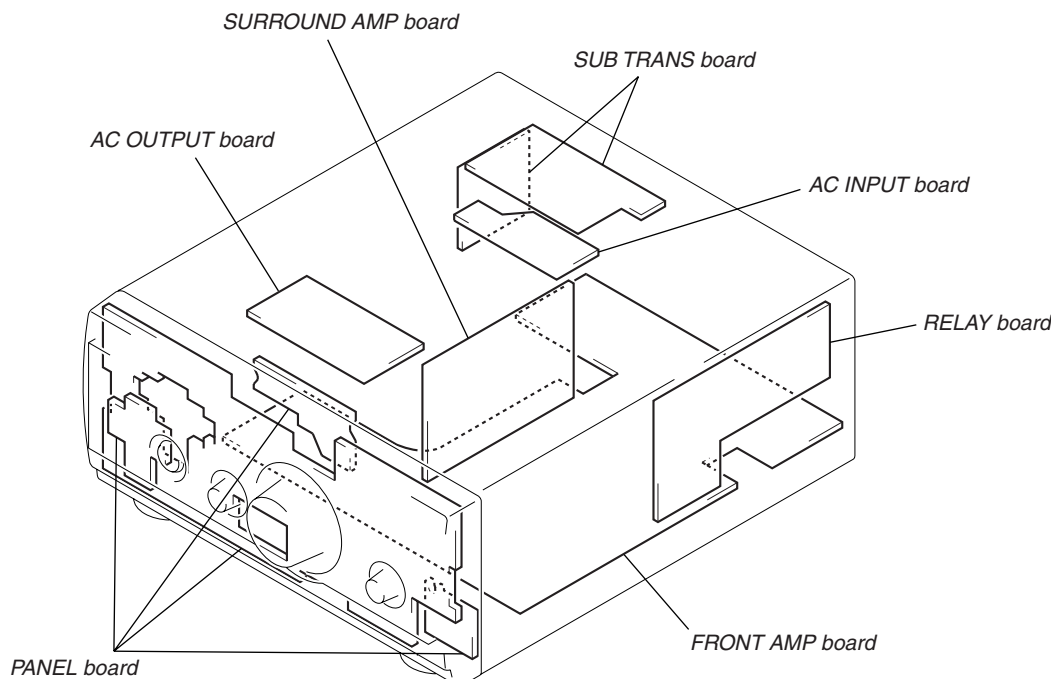
Note on Schematic Diagram:

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

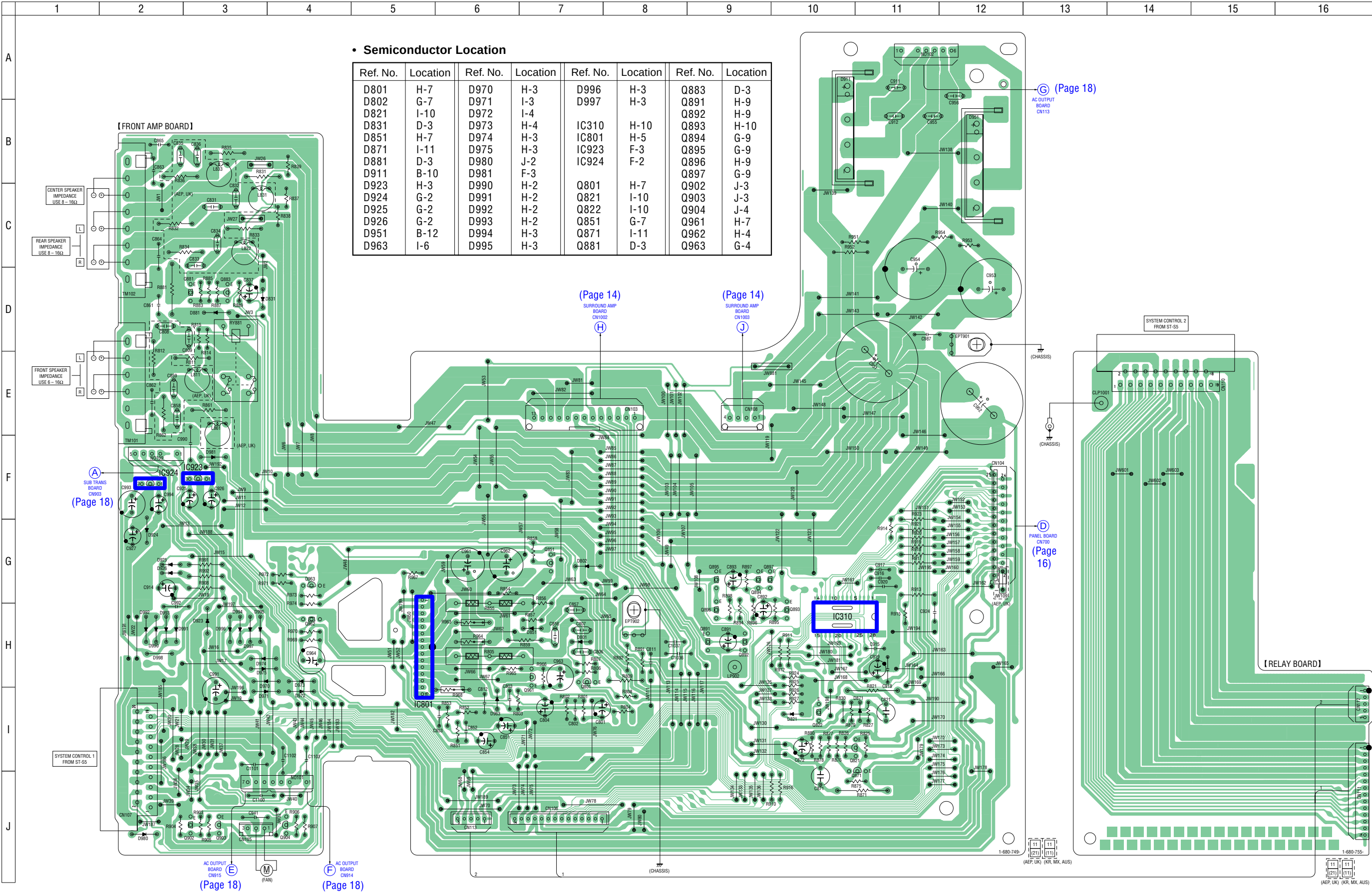
Note: The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : B- Line.
- Voltages are dc with respect to ground under no-signal conditions.
- no mark : Power on
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ⇒ : AUDIO
- ▷ : MIC

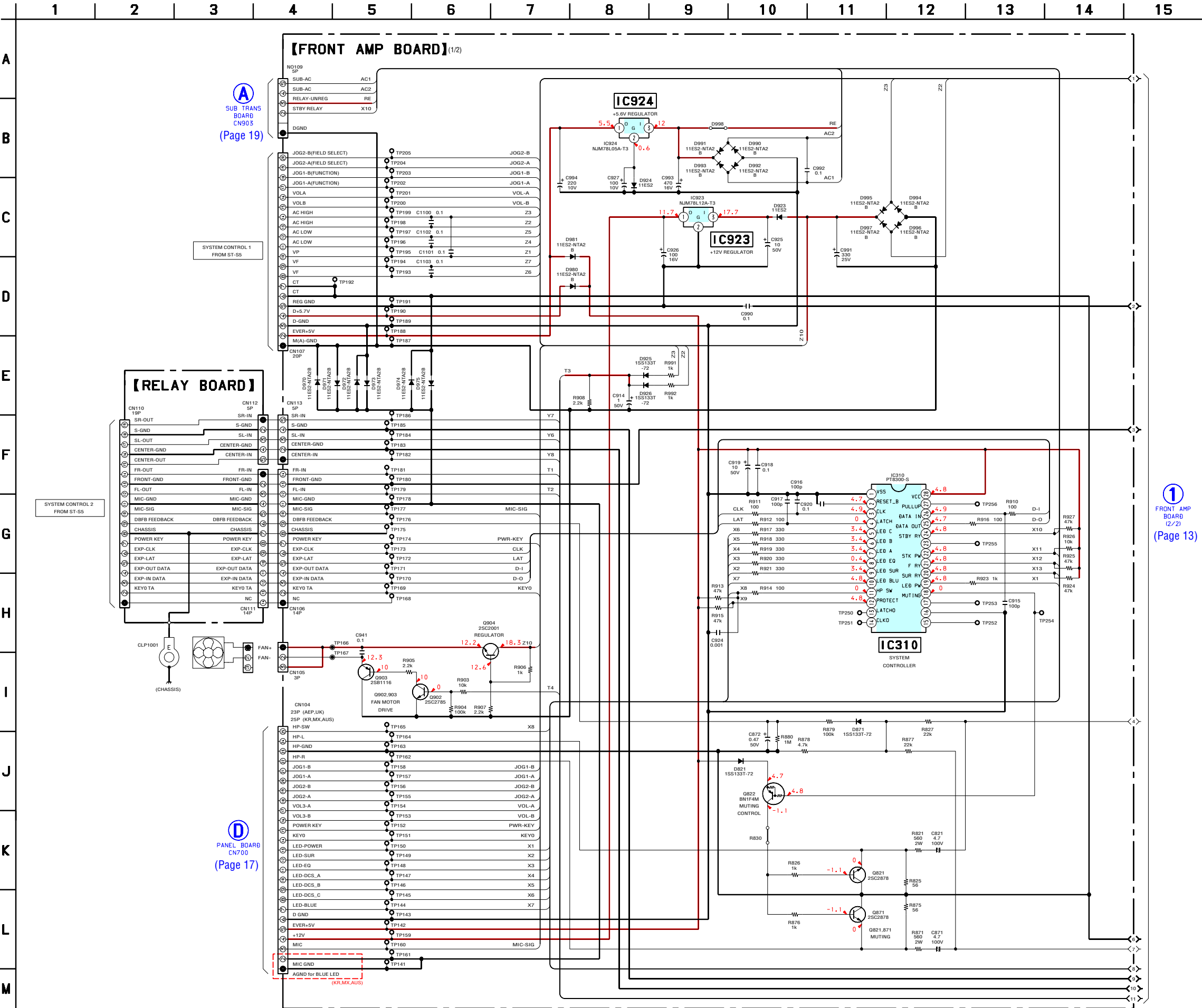
• Circuit Boards Location



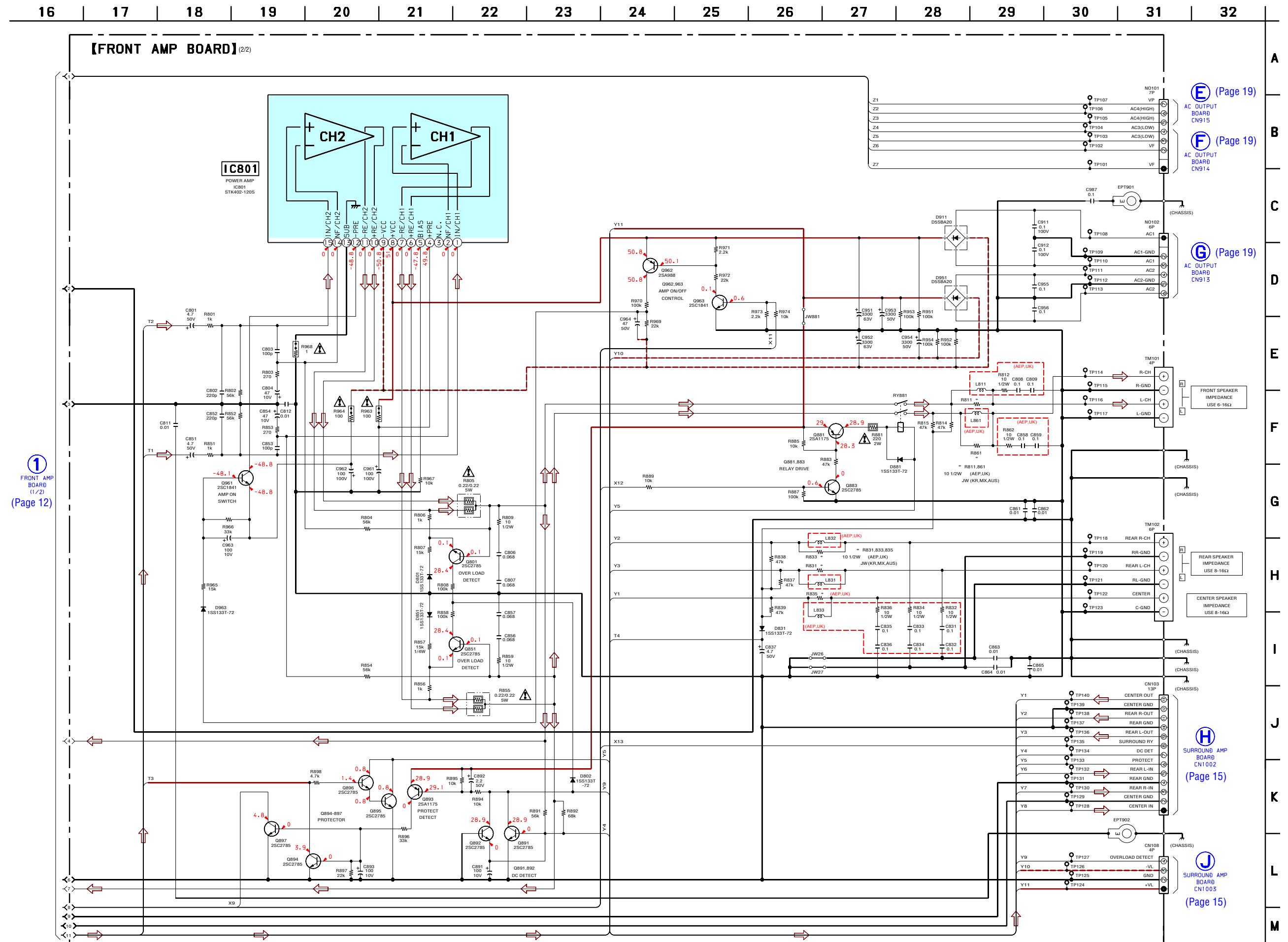
5-2. PRINTED WIRING BOARDS – FRONT AMP Section – • See page 10 for Circuit Boards Location.



5-3. SCHEMATIC DIAGRAM – FRONT AMP Section (1/2) –



5-4. SCHEMATIC DIAGRAM – FRONT AMP Section (2/2) –



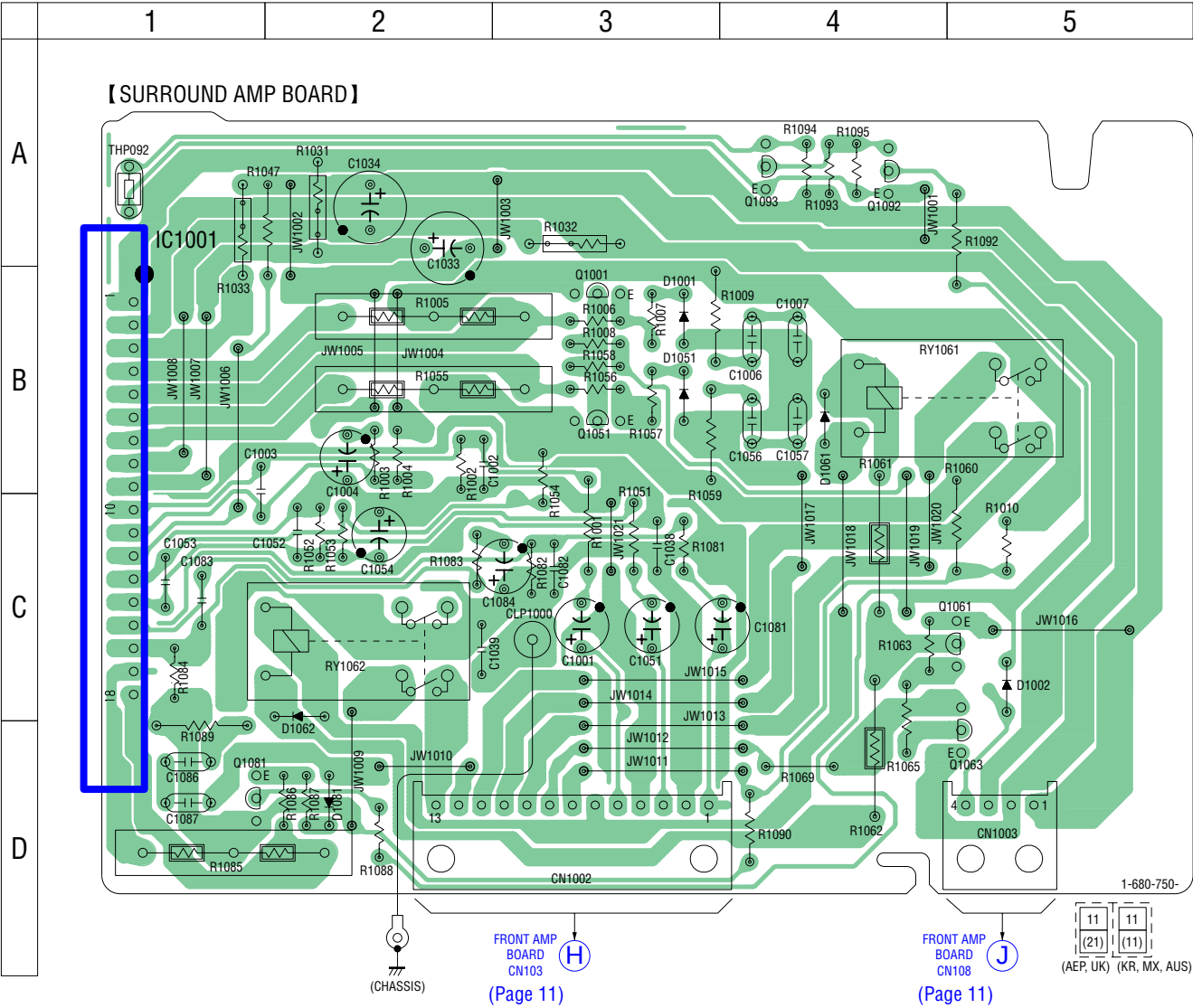
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

5-5. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC301 PT8300-S (SYSTEM CONTROLLER)

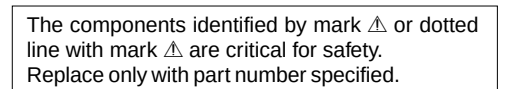
Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	RESET_B	I	Reset signal input terminal Not used
3	CLK	I	Serial data transfer clock signal input from the tuner unit (ST-S5)
4	LATCH	I	Serial data latch pulse input from the tuner unit (ST-S5)
5	LED C	O	LED drive signal output of the CINEMA STUDIO C indicator (D706) “L”: LED on
6	LED B	O	LED drive signal output of the CINEMA STUDIO B indicator (D705) “L”: LED on
7	LED A	O	LED drive signal output of the CINEMA STUDIO A indicator (D704) “L”: LED on
8	LED EQ	O	LED drive signal output of the EQ indicator (D703) “L”: LED on
9	LED SUR	O	LED drive signal output of the SUR indicator (D702) “L”: LED on
10	LED BLU	O	LED drive signal output of the MULTI CHANNEL DECODING indicator (D781) “L”: LED on
11	HP SW	I	Headphone detection signal input terminal “H”: headphone on
12	PROTECT	I	Over load detection signal input for speaker output “L”: over load
13	LATCHO	O	Serial data latch pulse output terminal Not used (open)
14	CLKO	O	Serial data transfer clock signal output terminal Not used (open)
15	—	—	Not used (open)
16	—	—	Not used (fixed at “L”)
17	—	—	Not used (open)
18	MUTING	O	Muting on/off control signal output terminal “L”: muting
19	LED PW	O	LED drive signal output of the I/⏻ indicator (D701) “L”: LED on
20	SUR RY	O	Relay drive signal output for the surround speaker (rear and center) protection “H”: on
21	F RY	O	Relay drive signal output for the front speaker protection “H”: on
22	STK PW	O	Power amplifier on/off selection signal output terminal “L”: standby, “H”: on
23	—	—	Not used (open)
24	STBY RY	O	Standby relay drive signal output terminal “L”: standby, “H”: power on
25	DATA OUT	O	Serial data output to the tuner unit (ST-S5)
26	DATA IN	I	Serial data input from the tuner unit (ST-S5)
27	PULLUP	—	Not used (open)
28	VCC	—	Power supply terminal (+5V)

5-6. PRINTED WIRING BOARD – SURROUND AMP Section – • See page 10 for Circuit Boards Location.

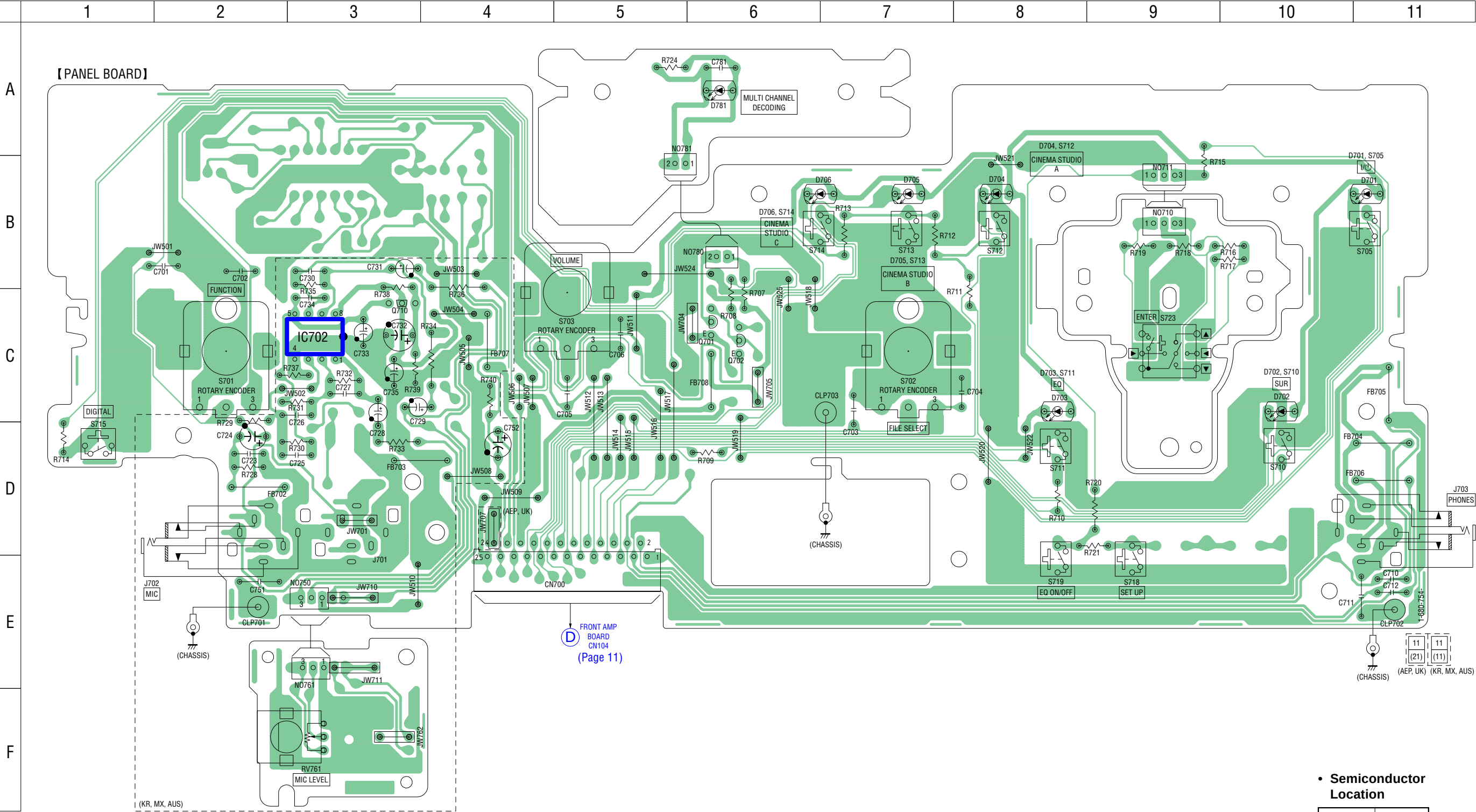


• Semiconductor Location

Ref. No.	Location
D1001	B-3
D1002	C-5
D1051	B-3
D1061	B-4
D1062	C-2
D1081	D-2
IC1001	B-1
Q1001	B-3
Q1051	B-3
Q1061	C-5
Q1063	D-5
Q1081	D-1
Q1092	A-4
Q1093	A-4



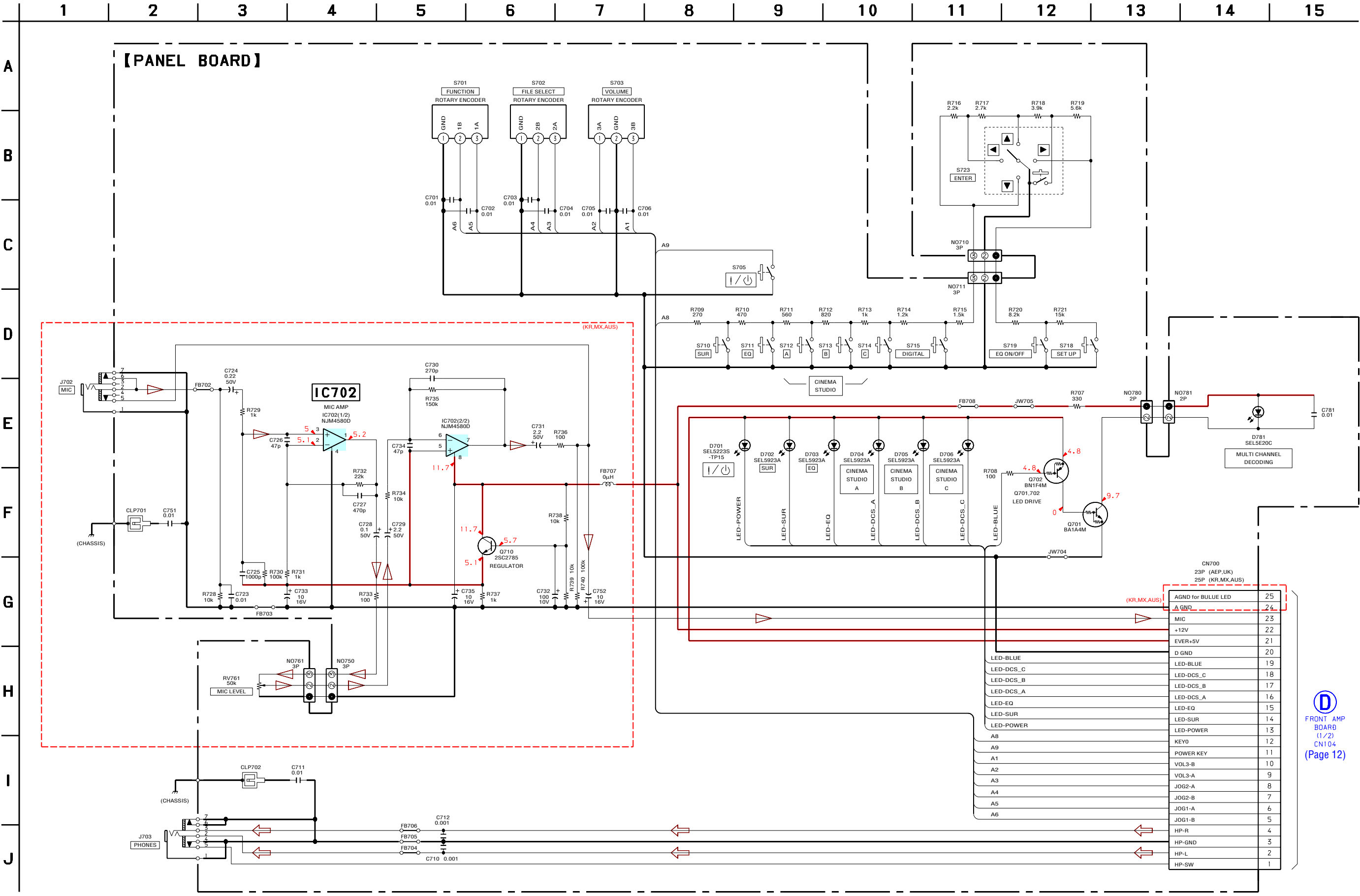
5-8. PRINTED WIRING BOARDS – CONTROL Section – • See page 10 for Circuit Boards Location.



• Semiconductor Location

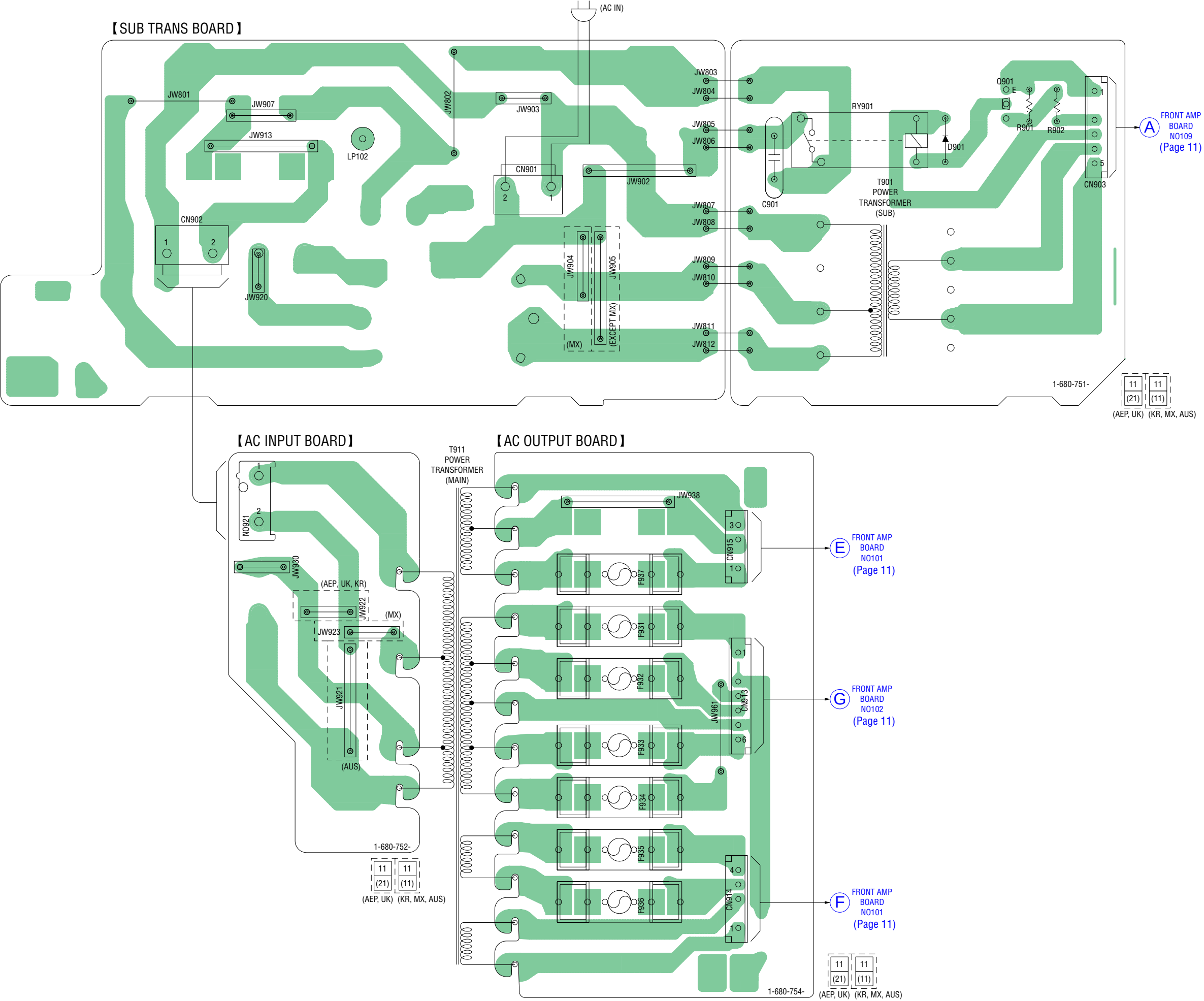
Ref. No.	Location
D701	B-11
D702	C-10
D703	C-8
D704	B-8
D705	B-7
D706	B-6
D781	A-6
IC702	C-3
Q701	C-6
Q702	C-6
Q710	C-3

5-9. SCHEMATIC DIAGRAM - CONTROL Section -

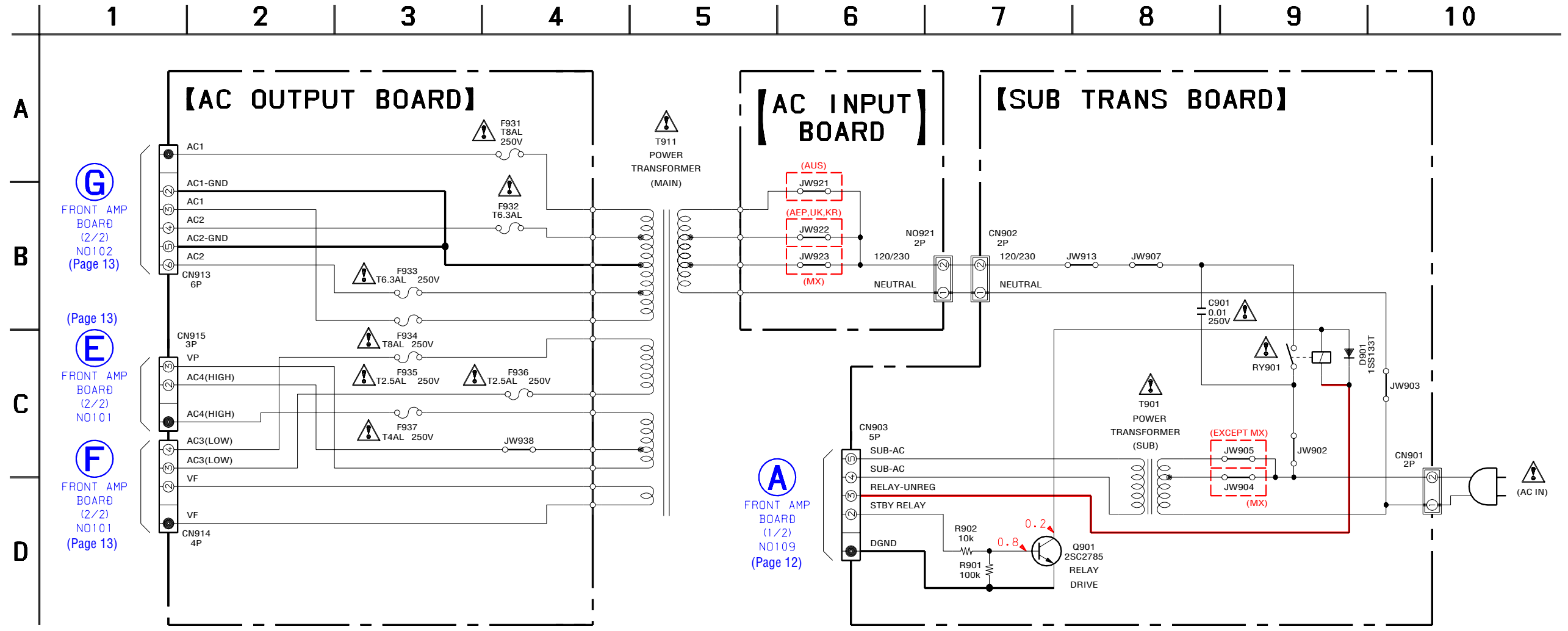


FRONT AMP BOARD (1/2) CN104 (Page 12)

5-10. PRINTED WIRING BOARDS – POWER Section – • See page 10 for Circuit Boards Location.



5-11. SCHEMATIC DIAGRAM – POWER Section –



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

SECTION 6

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)

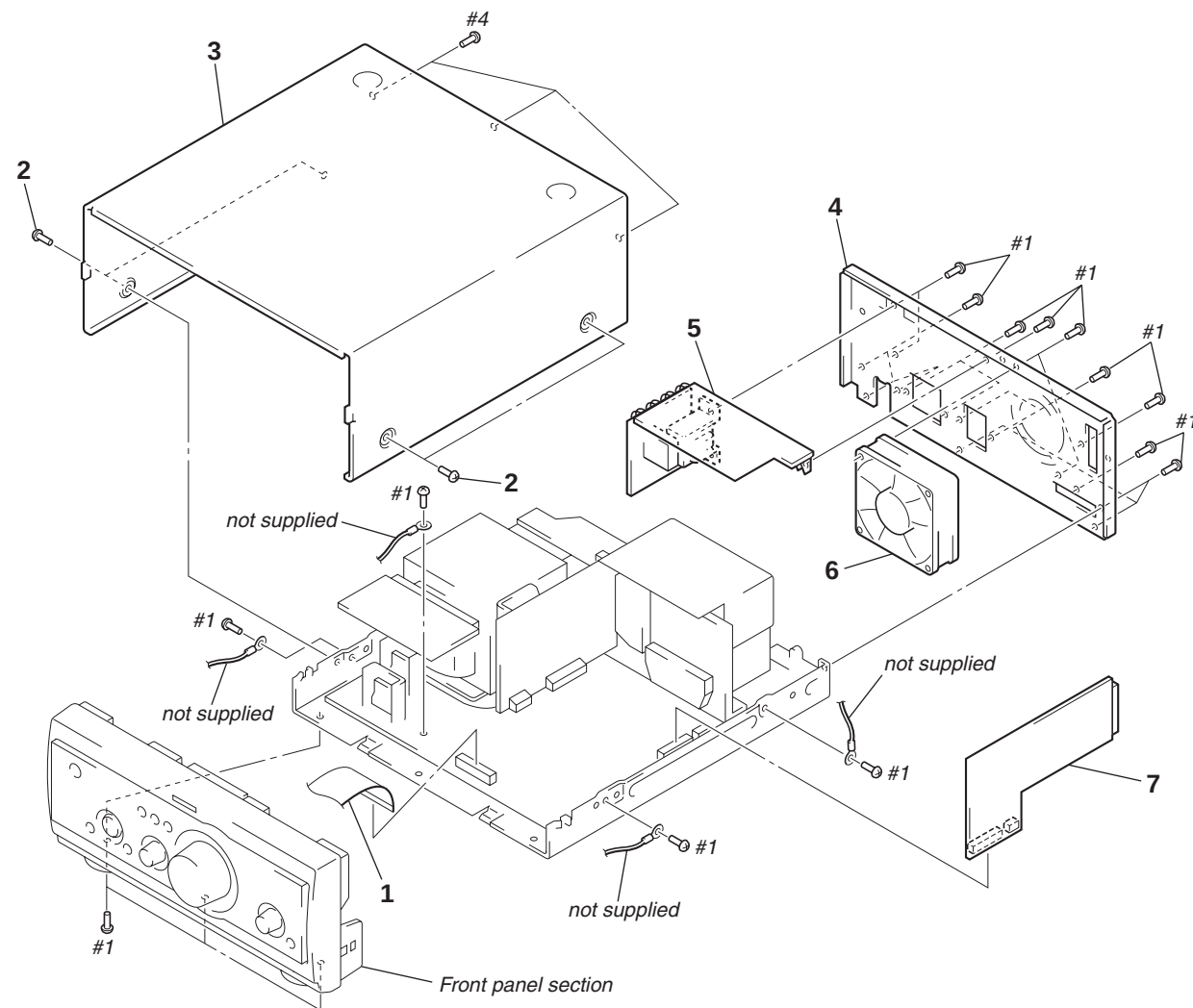
Parts Color Cabinet's Color

- 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.
- Hardware (# mark) list is 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.

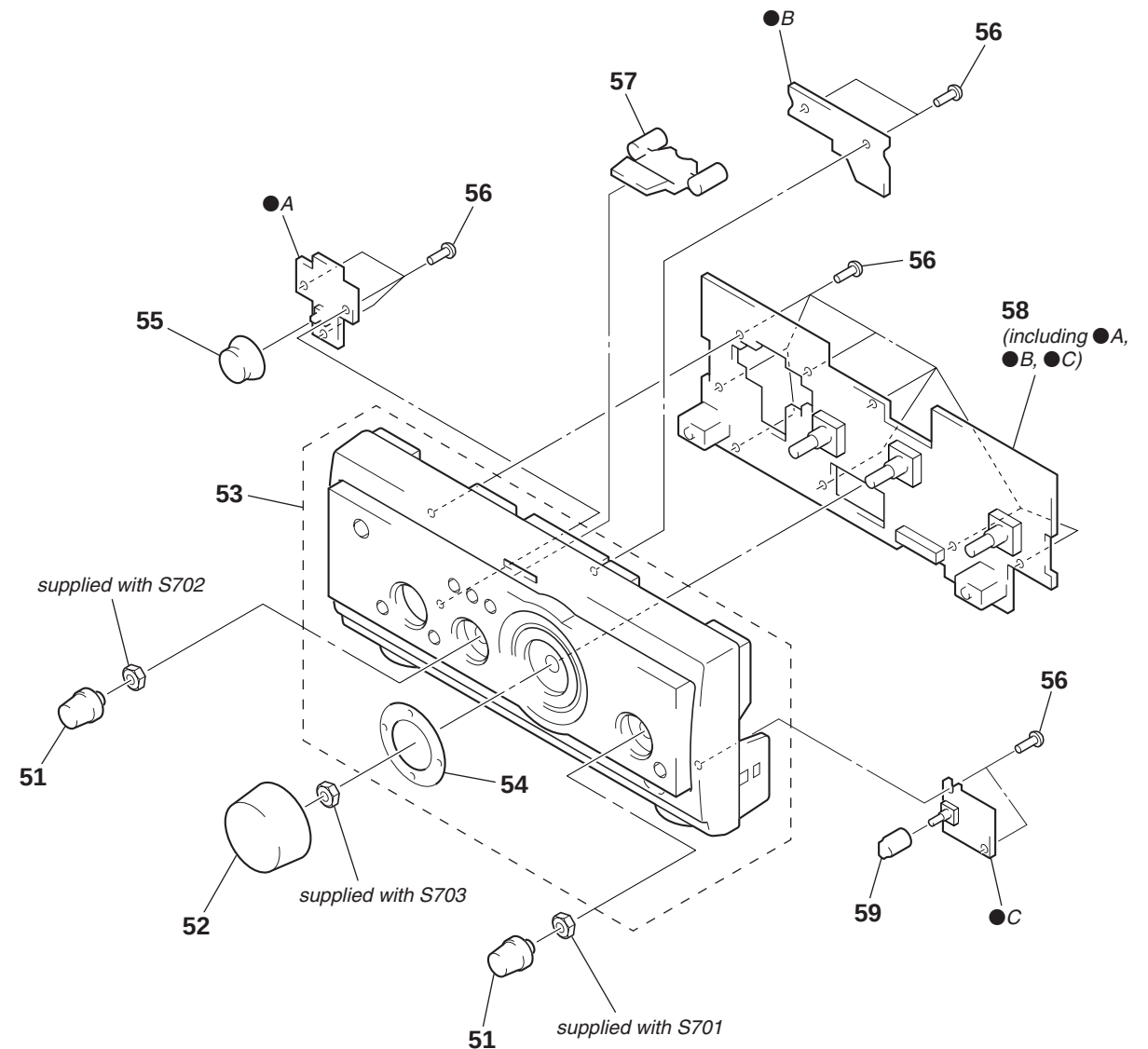
- Abbreviation
AUS : Australian model
KR : Korean model
MX : Mexican model

6-1. COVER SECTION



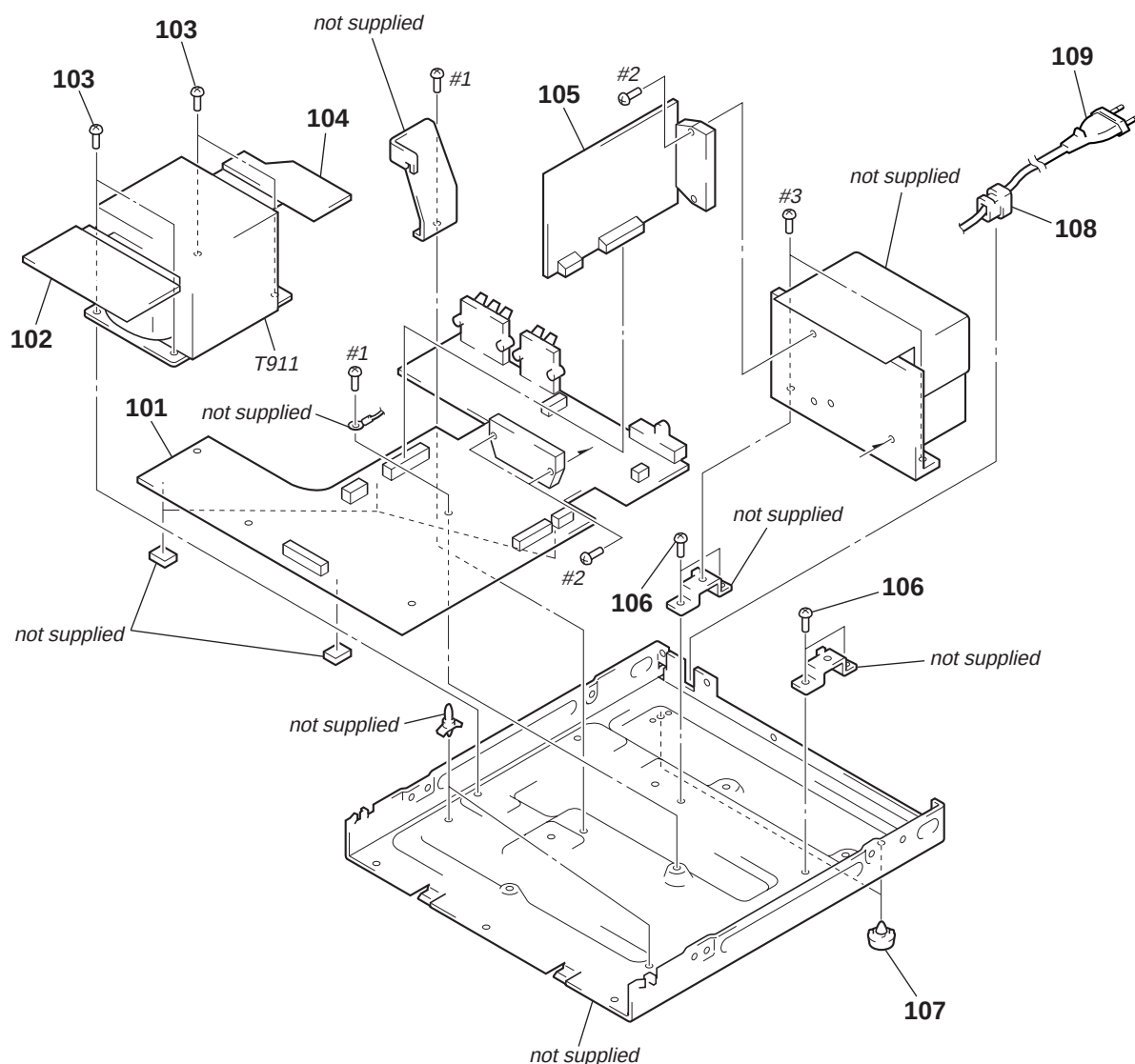
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-773-178-11	WIRE (FLAT TYPE) (23 CORE) (AEP, UK)		4	4-232-337-51	PANEL (AV), BACK (AUS)	
1	1-773-210-11	WIRE (FLAT TYPE) (25 CORE) (KR, MX, AUS)		4	4-232-337-71	PANEL (AV), BACK (MX)	
2	3-363-099-21	SCREW (CASE 3 TP2)		4	4-232-337-81	PANEL (AV), BACK (KR)	
3	4-232-336-11	COVER		5	1-680-751-11	SUB TRANS BOARD	
4	4-232-337-01	PANEL (AV), BACK (AEP)		6	1-763-072-11	FAN, D. C.	
4	4-232-337-31	PANEL (AV), BACK (UK)		7	1-680-755-11	RELAY BOARD	

6-2. 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>
51	4-232-342-01	KNOB (FUNC)		56	4-951-620-01	SCREW (2.6X8), +BVTP	
52	4-232-338-01	KNOB (VOL)		57	4-232-344-01	INDICATOR (BLUE)	
53	X-4953-453-1	PANEL ASSY, FRONT (AEP, UK)		58	A-4476-220-A	PANEL BOARD, COMPLETE (AEP, UK)	
53	X-4953-455-1	PANEL ASSY, FRONT (KR, MX, AUS)		58	A-4476-241-A	PANEL BOARD, COMPLETE (KR, MX, AUS)	
54	4-232-341-01	SHEET (VOL)		59	4-232-340-01	KNOB (MIC) (KR, MX, AUS)	
55	4-232-343-01	BUTTON (ENTER)					

6-3. CHASSIS SECTION



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-2007-899-A	FRONT AMP BOARD, COMPLETE (KR, MX, AUS)		106	3-970-608-01	SUMITITE (B3), +BV	
101	A-4476-214-A	FRONT AMP BOARD, COMPLETE (AEP, UK)		107	4-965-822-01	FOOT	
102	1-680-753-11	AC OUTPUT BOARD		* 108	3-703-244-00	BUSHING (2104), CORD	
103	4-900-386-01	SCREW		$\triangle$ 109	1-769-079-21	CORD, POWER (KR)	
104	1-680-752-11	AC INPUT BOARD		$\triangle$ 109	1-777-071-81	CORD, POWER (AEP)	
105	A-2007-897-A	SURROUND AMP BOARD, COMPLETE (KR, MX, AUS)		$\triangle$ 109	1-783-203-11	CORD, POWER (AUS)	
105	A-4476-217-A	SURROUND AMP BOARD, COMPLETE (AEP, UK)		$\triangle$ 109	1-790-226-11	CORD, POWER (UK)	
				$\triangle$ 109	1-791-901-11	CORD, POWER (MX)	
				$\triangle$ T911	1-435-934-11	TRANSFORMER, POWER (AEP, UK)	
				$\triangle$ T911	1-435-935-11	TRANSFORMER, POWER (KR, MX, AUS)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -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

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

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

- Abbreviation
AUS : Australian model
KR : Korean model
MX : Mexican model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-680-752-11	AC INPUT BOARD *****		C821	1-107-721-11	ELECT 4.7uF 20% 100V	
*****				C831	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
	1-680-753-11	AC OUTPUT BOARD *****		C832	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
	1-533-217-41	HOLDER, FUSE		C833	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
		< CONNECTOR >		C834	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
CN913	1-691-768-11	PLUG (MICRO CONNECTOR) 6P		C835	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
CN914	1-691-766-11	PLUG (MICRO CONNECTOR) 4P		C836	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
CN915	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		C837	1-126-963-11	ELECT 4.7uF 20% 50V	
		< FUSE >		C851	1-126-963-11	ELECT 4.7uF 20% 50V	
Δ F931	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)		C852	1-162-286-31	CERAMIC 220PF 10% 50V	
Δ F932	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)		C853	1-162-282-31	CERAMIC 100PF 10% 50V	
Δ F933	1-533-473-11	FUSE, GLASS TUBE (DIA. 5) (T6.3AL/250V)		C854	1-104-664-11	ELECT 47uF 20% 10V	
Δ F934	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG) (T8AL/250V)		C856	1-136-495-11	FILM 0.068uF 5% 50V	
Δ F935	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)		C857	1-136-495-11	FILM 0.068uF 5% 50V	
Δ F936	1-533-469-11	FUSE, GLASS TUBE (DIA. 5) (T2.5AL/250V)		C858	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
Δ F937	1-533-471-11	FUSE, GLASS TUBE (DIA. 5) (T4AL/250V)		C859	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)
*****				C861	1-162-306-11	CERAMIC 0.01uF 30% 16V	
A-2007-899-A	FRONT AMP BOARD, COMPLETE		(KR, MX, AUS)	C862	1-162-306-11	CERAMIC 0.01uF 30% 16V	
A-4476-214-A	FRONT AMP BOARD, COMPLETE (AEP, UK)		*****	C863	1-162-306-11	CERAMIC 0.01uF 30% 16V	
7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			C864	1-162-306-11	CERAMIC 0.01uF 30% 16V	
		< CAPACITOR >		C865	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C801	1-126-963-11	ELECT 4.7uF 20% 50V		C871	1-107-721-11	ELECT 4.7uF 20% 100V	
C802	1-162-286-31	CERAMIC 220PF 10% 50V		C872	1-126-959-11	ELECT 0.47uF 20% 50V	
C803	1-162-282-31	CERAMIC 100PF 10% 50V		C891	1-104-665-11	ELECT 100uF 20% 10V	
C804	1-104-664-11	ELECT 47uF 20% 10V		C892	1-126-961-11	ELECT 2.2uF 20% 50V	
C806	1-136-495-11	FILM 0.068uF 5% 50V		C893	1-104-665-11	ELECT 100uF 20% 10V	
C807	1-136-495-11	FILM 0.068uF 5% 50V		C911	1-130-777-00	MYLAR 0.1uF 5% 100V	
C808	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)	C912	1-130-777-00	MYLAR 0.1uF 5% 100V	
C809	1-136-165-00	FILM 0.1uF 5% 50V	(AEP, UK)	C914	1-115-871-11	ELECT 1uF 20% 50V	
C811	1-162-306-11	CERAMIC 0.01uF 30% 16V		C915	1-162-282-31	CERAMIC 100PF 10% 50V	
C812	1-162-306-11	CERAMIC 0.01uF 30% 16V		C916	1-162-282-31	CERAMIC 100PF 10% 50V	
				C917	1-162-282-31	CERAMIC 100PF 10% 50V	
				C918	1-164-159-11	CERAMIC 0.1uF 5% 50V	
				C919	1-126-964-11	ELECT 10uF 20% 50V	
				C920	1-164-159-11	CERAMIC 0.1uF 50V	
				C924	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C925	1-126-795-11	ELECT 10uF 20% 50V	

FRONT AMP

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
C926	1-126-382-11	ELECT	100uF	20%	16V		D990	8-719-024-99	DIODE	11ES2-NTA2B			
C927	1-104-665-11	ELECT	100uF	20%	10V		D991	8-719-024-99	DIODE	11ES2-NTA2B			
C941	1-164-159-11	CERAMIC	0.1uF		50V		D992	8-719-024-99	DIODE	11ES2-NTA2B			
C951	1-135-516-11	ELECT	3300uF	20%	63V		D993	8-719-024-99	DIODE	11ES2-NTA2B			
C952	1-135-516-11	ELECT	3300uF	20%	63V		D994	8-719-024-99	DIODE	11ES2-NTA2B			
C953	1-135-515-11	ELECT	3300uF	20%	50V		D995	8-719-024-99	DIODE	11ES2-NTA2B			
C954	1-135-515-11	ELECT	3300uF	20%	50V		D996	8-719-024-99	DIODE	11ES2-NTA2B			
C955	1-136-165-00	FILM	0.1uF	5%	50V		D997	8-719-024-99	DIODE	11ES2-NTA2B			
C956	1-136-165-00	FILM	0.1uF	5%	50V		< GROUND TERMINAL >						
C961	1-128-563-11	ELECT	100uF	20%	100V		EPT901	1-537-770-21	TERMINAL BOARD, GROUND				
C962	1-128-563-11	ELECT	100uF	20%	100V		EPT902	1-537-770-21	TERMINAL BOARD, GROUND				
C963	1-104-665-11	ELECT	100uF	20%	10V		< IC >						
C964	1-119-943-91	ELECT	47uF	20%	50V								
C987	1-164-159-11	CERAMIC	0.1uF		50V		IC310	6-800-467-01	IC	PT8300-S			
C990	1-164-159-11	CERAMIC	0.1uF		50V		IC801	8-749-016-96	IC	STK402-120S			
C991	1-126-940-11	ELECT	330uF	20%	25V		IC923	8-759-595-88	IC	NJM78L12A-T3			
C992	1-113-342-11	CERAMIC	0.1uF		50V		IC924	8-759-708-05	IC	NJM78L05A-T3			
C993	1-126-935-11	ELECT	470uF	20%	16V		< COIL >						
C994	1-126-176-11	ELECT	220uF	20%	10V								
C1100	1-164-159-11	CERAMIC	0.1uF		50V		L811	1-420-872-00	COIL, AIR-CORE (AEP, UK)				
C1101	1-164-159-11	CERAMIC	0.1uF		50V		L831	1-420-872-00	COIL, AIR-CORE (AEP, UK)				
C1102	1-164-159-11	CERAMIC	0.1uF		50V		L832	1-420-872-00	COIL, AIR-CORE (AEP, UK)				
C1103	1-164-159-11	CERAMIC	0.1uF		50V		L833	1-420-872-00	COIL, AIR-CORE (AEP, UK)				
< CONNECTOR >							L861	1-420-872-00	COIL, AIR-CORE (AEP, UK)				
CN103	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P					< TRANSISTOR >						
CN104	1-784-784-11	CONNECTOR, FFC 23P (AEP, UK)											
CN104	1-784-786-11	CONNECTOR, FFC 25P (KR, MX, AUS)					Q801	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
CN105	1-564-506-11	PLUG, CONNECTOR 3P					Q821	8-729-231-55	TRANSISTOR	2SC2878AB-TPE2			
CN106	1-573-846-11	CONNECTOR, BOARD TO BOARD 14P					Q822	8-729-900-63	TRANSISTOR	BN1F4M-TP			
CN107	1-794-498-21	SOCKET, CONNECTOR 20P (SYSTEM CONTROL 1 FROM ST-S5)					Q851	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
CN108	1-770-721-11	CONNECTOR, BOARD TO BOARD 4P					Q871	8-729-231-55	TRANSISTOR	2SC2878AB-TPE2			
CN113	1-770-594-21	CONNECTOR, BOARD TO BOARD 5P					Q881	8-729-119-76	TRANSISTOR	2SA1175TP-HFE			
< DIODE >							Q883	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D801	8-719-911-19	DIODE	1SS133T-72				Q891	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D802	8-719-911-19	DIODE	1SS133T-72				Q892	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D821	8-719-911-19	DIODE	1SS133T-72				Q893	8-729-119-76	TRANSISTOR	2SA1175TP-HFE			
D831	8-719-911-19	DIODE	1SS133T-72				Q894	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D851	8-719-911-19	DIODE	1SS133T-72				Q895	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D871	8-719-911-19	DIODE	1SS133T-72				Q896	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D881	8-719-911-19	DIODE	1SS133T-72				Q897	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D911	8-719-510-68	DIODE	D5SBA204101				Q902	8-729-119-78	TRANSISTOR	2SC2785TP-HFE			
D923	8-719-024-99	DIODE	11ES2-NTA2B				Q903	8-729-140-04	TRANSISTOR	2SB1116-TP-LK			
D924	8-719-024-99	DIODE	11ES2-NTA2B				Q904	8-729-142-46	TRANSISTOR	2SC2001TP-LK			
D925	8-719-911-19	DIODE	1SS133T-72				Q961	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
D926	8-719-911-19	DIODE	1SS133T-72				Q962	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA			
D951	8-719-510-68	DIODE	D5SBA204101				Q963	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
D963	8-719-911-19	DIODE	1SS133T-72				< RESISTOR >						
D970	8-719-024-99	DIODE	11ES2-NTA2B				R801	1-249-417-11	CARBON	1K	5%	1/4W	
D971	8-719-024-99	DIODE	11ES2-NTA2B				R802	1-249-438-11	CARBON	56K	5%	1/4W	
D972	8-719-024-99	DIODE	11ES2-NTA2B				R803	1-249-410-11	CARBON	270	5%	1/4W	
D973	8-719-024-99	DIODE	11ES2-NTA2B				R804	1-249-438-11	CARBON	56K	5%	1/4W	
D974	8-719-024-99	DIODE	11ES2-NTA2B				△R805	1-234-499-21	ENCAPSULATED COMPONENT 0.22 5W				
D975	8-719-024-99	DIODE	11ES2-NTA2B				R806	1-249-417-11	CARBON	1K	5%	1/4W	
D980	8-719-024-99	DIODE	11ES2-NTA2B				R807	1-249-431-11	CARBON	15K	5%	1/4W	
D981	8-719-024-99	DIODE	11ES2-NTA2B				R808	1-249-441-11	CARBON	100K	5%	1/4W	
						R809	1-260-076-11	CARBON	10	5%	1/2W		

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

TA-S7AV

FRONT AMP						PANEL					
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R811	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R905	1-249-421-11	CARBON	2.2K	5%	1/4W
						R906	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R907	1-249-421-11	CARBON	2.2K	5%	1/4W
R814	1-249-437-11	CARBON	47K	5%	1/4W	R908	1-249-421-11	CARBON	2.2K	5%	1/4W
R815	1-249-437-11	CARBON	47K	5%	1/4W	R910	1-247-807-31	CARBON	100	5%	1/4W
△ R821	1-216-455-51	METAL OXIDE	560	5%	2W F	R911	1-247-807-31	CARBON	100	5%	1/4W
R825	1-249-402-11	CARBON	56	5%	1/4W	R912	1-247-807-31	CARBON	100	5%	1/4W
						R913	1-249-437-11	CARBON	47K	5%	1/4W
R826	1-249-417-11	CARBON	1K	5%	1/4W	R914	1-247-807-31	CARBON	100	5%	1/4W
R827	1-249-433-11	CARBON	22K	5%	1/4W	R915	1-249-437-11	CARBON	47K	5%	1/4W
R831	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R916	1-247-807-31	CARBON	100	5%	1/4W
						R917	1-249-411-11	CARBON	330	5%	1/4W
R832	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R918	1-249-411-11	CARBON	330	5%	1/4W
R833	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R919	1-249-411-11	CARBON	330	5%	1/4W
						R920	1-249-411-11	CARBON	330	5%	1/4W
R834	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R921	1-249-411-11	CARBON	330	5%	1/4W
						R923	1-249-417-11	CARBON	1K	5%	1/4W
R835	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R924	1-249-437-11	CARBON	47K	5%	1/4W
						R925	1-249-437-11	CARBON	47K	5%	1/4W
R836	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R926	1-249-429-11	CARBON	10K	5%	1/4W
						R927	1-249-437-11	CARBON	47K	5%	1/4W
R837	1-249-437-11	CARBON	47K	5%	1/4W	R951	1-249-441-11	CARBON	100K	5%	1/4W
R838	1-249-437-11	CARBON	47K	5%	1/4W						
						R952	1-249-441-11	CARBON	100K	5%	1/4W
R839	1-249-437-11	CARBON	47K	5%	1/4W	R953	1-249-441-11	CARBON	100K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W	R954	1-249-441-11	CARBON	100K	5%	1/4W
R852	1-249-438-11	CARBON	56K	5%	1/4W	△ R963	1-212-881-11	FUSIBLE	100	5%	1/4W F
R853	1-249-410-11	CARBON	270	5%	1/4W	△ R964	1-212-881-11	FUSIBLE	100	5%	1/4W F
R854	1-249-438-11	CARBON	56K	5%	1/4W						
						R965	1-249-431-11	CARBON	15K	5%	1/4W
△ R855	1-234-499-21	ENCAPSULATED COMPONENT	0.22	5W		R966	1-249-435-11	CARBON	33K	5%	1/4W
R856	1-249-417-11	CARBON	1K	5%	1/4W	R967	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-249-431-11	CARBON	15K	5%	1/4W	△ R968	1-202-972-61	FUSIBLE	1	5%	1/4W F
R858	1-249-441-11	CARBON	100K	5%	1/4W	R969	1-249-433-11	CARBON	22K	5%	1/4W
R859	1-260-076-11	CARBON	10	5%	1/2W						
						R970	1-249-441-11	CARBON	100K	5%	1/4W
R861	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R971	1-249-421-11	CARBON	2.2K	5%	1/4W
						R972	1-249-433-11	CARBON	22K	5%	1/4W
R862	1-260-076-11	CARBON	10	5%	1/2W (AEP, UK)	R973	1-249-421-11	CARBON	2.2K	5%	1/4W
						R974	1-249-429-11	CARBON	10K	5%	1/4W
△ R871	1-216-455-51	METAL OXIDE	560	5%	2W F						
R875	1-249-402-11	CARBON	56	5%	1/4W	R991	1-249-417-11	CARBON	1K	5%	1/4W
R876	1-249-417-11	CARBON	1K	5%	1/4W	R992	1-249-417-11	CARBON	1K	5%	1/4W
R877	1-249-433-11	CARBON	22K	5%	1/4W			< RELAY >			
R878	1-249-425-11	CARBON	4.7K	5%	1/4W						
R879	1-249-441-11	CARBON	100K	5%	1/4W	RY881	1-515-920-11	RELAY			
R880	1-247-903-00	CARBON	1M	5%	1/4W						
△ R881	1-215-888-00	METAL OXIDE	220	5%	2W F			< TERMINAL >			
R883	1-249-437-11	CARBON	47K	5%	1/4W	TM101	1-694-677-12	TERMINAL BOARD (4P)			
R885	1-249-429-11	CARBON	10K	5%	1/4W			(FRONT SPEAKER IMPEDANCE USE 6-16Ω)			
R887	1-249-441-11	CARBON	100K	5%	1/4W	TM102	1-694-674-12	TERMINAL BOARD (6P) (REAR/CENTER			
R889	1-249-429-11	CARBON	10K	5%	1/4W			SPEAKER IMPEDANCE USE 8-16Ω)			
R891	1-249-438-11	CARBON	56K	5%	1/4W	*****					
R892	1-249-439-11	CARBON	68K	5%	1/4W		A-4476-220-A	PANEL BOARD, COMPLETE (AEP, UK)			
R894	1-249-429-11	CARBON	10K	5%	1/4W		A-4476-241-A	PANEL BOARD, COMPLETE (KR, MX, AUS)			
R895	1-249-429-11	CARBON	10K	5%	1/4W			*****			
R896	1-249-435-11	CARBON	33K	5%	1/4W						
R897	1-249-433-11	CARBON	22K	5%	1/4W			< CAPACITOR >			
R898	1-249-425-11	CARBON	4.7K	5%	1/4W	C701	1-162-306-11	CERAMIC	0.01uF	30%	16V
R903	1-249-429-11	CARBON	10K	5%	1/4W	C702	1-162-306-11	CERAMIC	0.01uF	30%	16V
R904	1-249-441-11	CARBON	100K	5%	1/4W	C703	1-162-306-11	CERAMIC	0.01uF	30%	16V

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

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PANEL

RELAY

SUB TRANS

SURROUND AMP

Ref. No.	Part No.	Description	Remark
S702	1-473-534-11	ENCODER, ROTARY (FILE SELECT)	
S703	1-473-392-11	ENCODER, ROTARY (VOLUME)	
S705	1-771-410-21	SWITCH, TACTILE (I/⌂)	
S710	1-771-410-21	SWITCH, TACTILE (SUR)	
S711	1-771-410-21	SWITCH, TACTILE (EQ)	
S712	1-771-410-21	SWITCH, TACTILE (CINEMA STUDIO A)	
S713	1-771-410-21	SWITCH, TACTILE (CINEMA STUDIO B)	
S714	1-771-410-21	SWITCH, TACTILE (CINEMA STUDIO C)	
S715	1-771-410-21	SWITCH, TACTILE (DIGITAL)	
S718	1-771-410-21	SWITCH, TACTILE (SET UP)	
S719	1-771-410-21	SWITCH, TACTILE (EQ ON/OFF)	
S723	1-771-879-11	SWITCH, TACTILE (ENTER)	

	1-680-755-11	RELAY BOARD	

		< CONNECTOR >	
CN110	1-793-351-41	SOCKET, CONNECTOR 19P	
* CN111	1-573-828-11	CONNECTOR, BOARD TO BOARD 14P	
CN112	1-770-593-41	CONNECTOR, BOARD TO BOARD 5P	

	1-680-751-11	SUB TRANS BOARD	

		< CAPACITOR >	
△ C901	1-113-925-11	CERAMIC 0.01uF 20% 250V	
		< CONNECTOR >	
CN901	1-564-321-00	PIN, CONNECTOR 2P	
* CN902	1-564-321-21	PIN, CONNECTOR 2P	
CN903	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
		< DIODE >	
D901	8-719-911-19	DIODE 1SS133T-72	
		< TRANSISTOR >	
Q901	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< RESISTOR >	
R901	1-249-441-11	CARBON 100K 5% 1/4W	
R902	1-249-429-11	CARBON 10K 5% 1/4W	
		< RELAY >	
△ RY901	1-755-276-11	RELAY, POWER	
		< TRANSFORMER >	
△ T901	1-435-824-11	TRANSFORMER, POWER (AEP, UK)	
△ T901	1-435-825-11	TRANSFORMER, POWER (KR, MX, AUS)	

Ref. No.	Part No.	Description	Remark
	A-2007-897-A	SURROUND AMP BOARD, COMPLETE (KR, MX, AUS)	
	A-4476-217-A	SURROUND AMP BOARD, COMPLETE (AEP, UK)	

		< CAPACITOR >	
C1001	1-126-964-11	ELECT 10uF 20% 50V	
C1002	1-162-286-31	CERAMIC 220PF 10% 50V	
C1003	1-162-282-31	CERAMIC 100PF 10% 50V	
C1004	1-104-664-11	ELECT 47uF 20% 10V	
C1006	1-136-495-11	FILM 0.068uF 5% 50V	
C1007	1-136-495-11	FILM 0.068uF 5% 50V	
C1033	1-126-968-11	ELECT 100uF 20% 50V	
C1034	1-126-968-11	ELECT 100uF 20% 50V	
C1038	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C1039	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C1051	1-126-964-11	ELECT 10uF 20% 50V	
C1052	1-162-286-31	CERAMIC 220PF 10% 50V	
C1053	1-162-282-31	CERAMIC 100PF 10% 50V	
C1054	1-104-664-11	ELECT 47uF 20% 10V	
C1056	1-136-495-11	FILM 0.068uF 5% 50V	
C1057	1-136-495-11	FILM 0.068uF 5% 50V	
C1081	1-126-964-11	ELECT 10uF 20% 50V	
C1082	1-162-286-31	CERAMIC 220PF 10% 50V	
C1083	1-162-282-31	CERAMIC 100PF 10% 50V	
C1084	1-104-664-11	ELECT 47uF 20% 10V	
C1086	1-136-495-11	FILM 0.068uF 5% 50V	
C1087	1-136-495-11	FILM 0.068uF 5% 50V	
		< CONNECTOR >	
CN1002	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P	
CN1003	1-770-725-11	CONNECTOR, BOARD TO BOARD 4P	
		< DIODE >	
D1001	8-719-911-19	DIODE 1SS133T-72	
D1002	8-719-911-19	DIODE 1SS133T-72	
D1051	8-719-911-19	DIODE 1SS133T-72	
D1061	8-719-911-19	DIODE 1SS133T-72	
D1062	8-719-911-19	DIODE 1SS133T-72	
D1081	8-719-911-19	DIODE 1SS133T-72	
		< IC >	
IC1001	8-749-017-17	IC STK443-050	
		< TRANSISTOR >	
Q1001	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q1051	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q1061	8-729-119-76	TRANSISTOR 2SA1175TP-HFE	
Q1063	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q1081	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q1092	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
Q1093	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
		< RESISTOR >	
R1001	1-249-417-11	CARBON 1K 5% 1/4W	
R1002	1-249-438-11	CARBON 56K 5% 1/4W	

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SURROUND AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1003	1-249-415-11	CARBON 680 5%	1/4W			MISCELLANEOUS	
R1004	1-249-438-11	CARBON 56K 5%	1/4W			*****	
△ R1005	1-233-352-41	ENCAPSULATED COMPONENT 0.22	2W				
R1006	1-249-417-11	CARBON 1K 5%	1/4W	1	1-773-178-11	WIRE (FLAT TYPE) (23 CORE) (AEP, UK)	
R1007	1-249-431-11	CARBON 15K 5%	1/4W	1	1-773-210-11	WIRE (FLAT TYPE) (25 CORE) (KR, MX, AUS)	
R1008	1-249-441-11	CARBON 100K 5%	1/4W	6	1-763-072-11	FAN, D. C.	
R1009	1-260-076-11	CARBON 10 5%	1/2W	△ 109	1-769-079-21	CORD, POWER (KR)	
R1010	1-249-437-11	CARBON 47K 5%	1/4W	△ 109	1-777-071-81	CORD, POWER (AEP)	
△ R1031	1-212-881-11	FUSIBLE 100 5%	1/4W F	△ 109	1-783-203-11	CORD, POWER (AUS)	
△ R1032	1-212-881-11	FUSIBLE 100 5%	1/4W F	△ 109	1-790-226-11	CORD, POWER (UK)	
△ R1033	1-202-972-61	FUSIBLE 1 5%	1/4W F	△ 109	1-791-901-11	CORD, POWER (MX)	
R1047	1-249-429-11	CARBON 10K 5%	1/4W	△ T911	1-435-934-11	TRANSFORMER, POWER (AEP, UK)	
R1051	1-249-417-11	CARBON 1K 5%	1/4W	△ T911	1-435-935-11	TRANSFORMER, POWER (KR, MX, AUS)	

R1052	1-249-438-11	CARBON 56K 5%	1/4W			*****	
R1053	1-249-415-11	CARBON 680 5%	1/4W			HARDWARE LIST	
R1054	1-249-438-11	CARBON 56K 5%	1/4W			*****	
△ R1055	1-233-352-41	ENCAPSULATED COMPONENT 0.22	2W	#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
R1056	1-249-417-11	CARBON 1K 5%	1/4W	#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
R1057	1-249-431-11	CARBON 15K 5%	1/4W	#3	7-685-872-09	SCREW +BVTT 3X8 (S)	
R1058	1-249-441-11	CARBON 100K 5%	1/4W	#4	7-685-871-01	SCREW +BVTT 3X6 (S)	
R1059	1-260-076-11	CARBON 10 5%	1/2W				
R1060	1-249-438-11	CARBON 56K 5%	1/4W				
△ R1061	1-215-888-00	METAL OXIDE 220 5%	2W F				
△ R1062	1-215-888-00	METAL OXIDE 220 5%	2W F				
R1063	1-249-429-11	CARBON 10K 5%	1/4W				
R1065	1-249-433-11	CARBON 22K 5%	1/4W				
R1081	1-249-417-11	CARBON 1K 5%	1/4W				
R1082	1-249-438-11	CARBON 56K 5%	1/4W				
R1083	1-247-834-11	CARBON 1.3K 5%	1/4W				
R1084	1-249-438-11	CARBON 56K 5%	1/4W				
△ R1085	1-233-352-41	ENCAPSULATED COMPONENT 0.22	2W				
R1086	1-249-417-11	CARBON 1K 5%	1/4W				
R1087	1-249-431-11	CARBON 15K 5%	1/4W				
R1088	1-249-441-11	CARBON 100K 5%	1/4W				
R1089	1-260-076-11	CARBON 10 5%	1/2W				
R1090	1-249-439-11	CARBON 68K 5%	1/4W				
R1092	1-249-441-11	CARBON 100K 5%	1/4W				
R1093	1-249-441-11	CARBON 100K 5%	1/4W				
R1094	1-249-439-11	CARBON 68K 5%	1/4W				
R1095	1-249-433-11	CARBON 22K 5%	1/4W				
< RELAY >							
RY1061	1-515-920-11	RELAY (24V)					
RY1062	1-515-920-11	RELAY (24V)					
< THERMISTOR (POSITIVE) >							
THP092	1-807-796-11	THERMISTOR					

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REVISION HISTORY

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