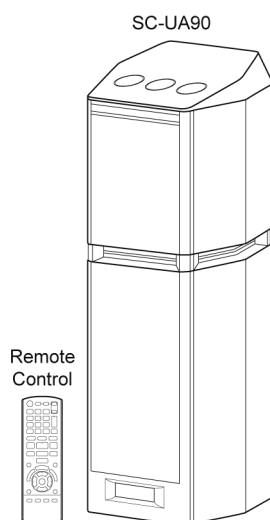


Service Manual

Wireless Speaker System

Model No. **SC-UA90PR**
SC-UA90PU

Product Color: (K)...Black Type



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

- There are special components used in this equipment which are important for safety. These parts are marked by Δ in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.
1. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
 2. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
 4. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

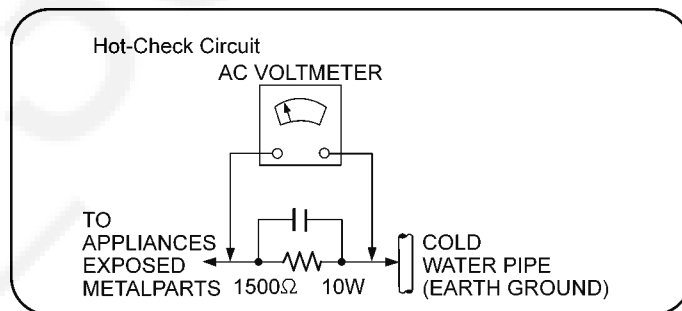


Figure 1-1

1.2. Before Repair and Adjustment

Disconnect AC power to discharge AC capacitor (in SMPS/AC Inlet P.C.B.) as indicate below diagram through a 10 Ω , 1 W resistor to ground.

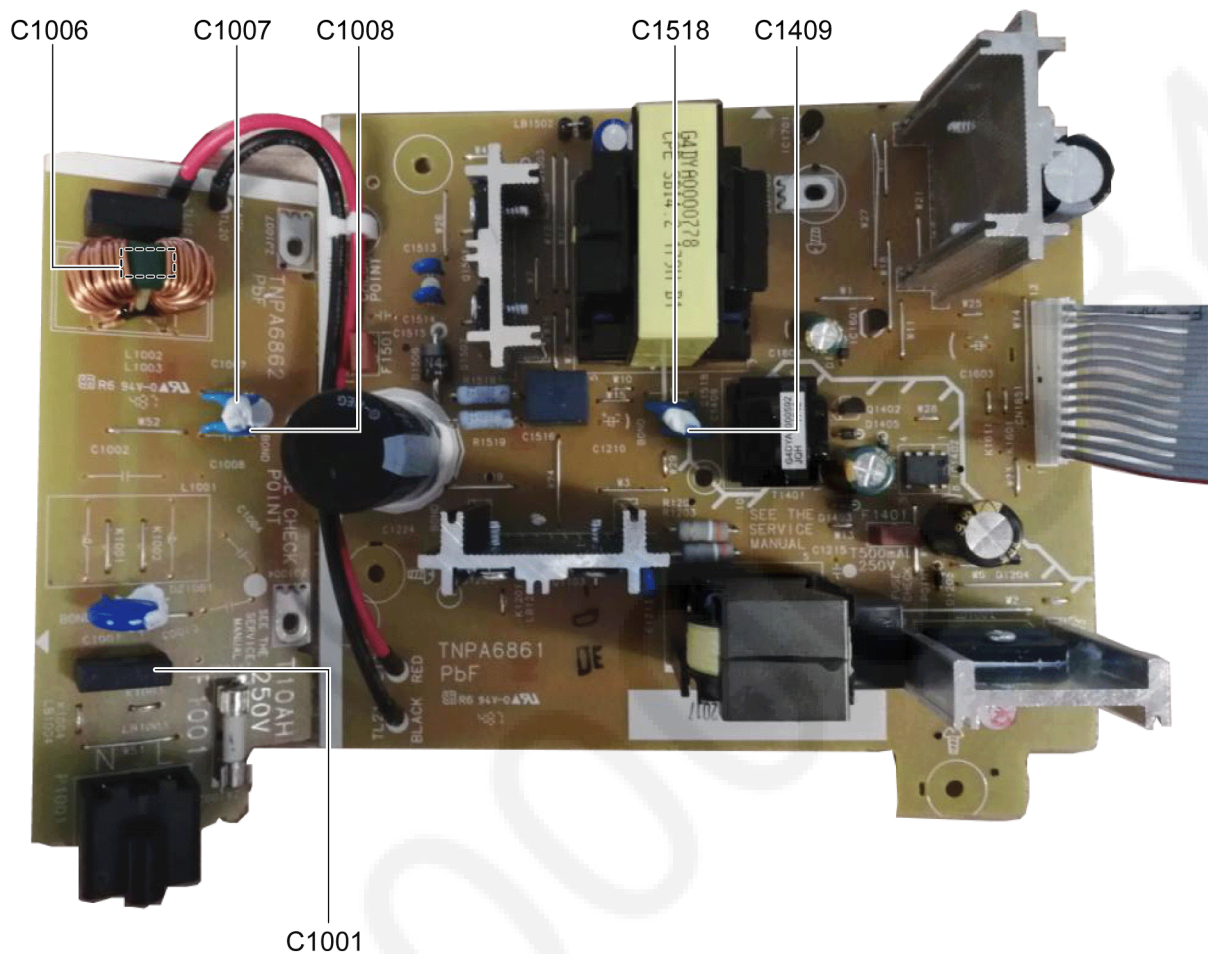


Figure 1-2

Caution:

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 220~240 V, 50/60 Hz in Power ON, FM Tuner No signal volume minimal mode should be ~ 350mA (for PR).

Current consumption at AC 110~240 V, 50/60 Hz in Power ON, FM Tuner No signal volume minimal mode should be ~ 350mA (for PU).

1.3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

1.4. Safety Parts Information

Safety Parts List:

There are special components used in this equipment which are important for safety.

These parts are marked by Δ in the Schematic Diagrams, Exploded View & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
Δ	17	TBA020K	REAR PANEL	1	UA90PU-K
Δ	17	TBA020KA	REAR PANEL	1	UA90PR-K
Δ	301	TXQ0035	TRAVERSE ASS'Y	1	(E.S.D)
Δ	A2	K2CQ2YY00107	AC CORD	1	UA90PU-K
Δ	A2	K2CA2YY00039	AC CORD	1	UA90PR-K
Δ	A3	TQBJ2147	O/I (EN)	1	UA90PU-K
Δ	A3	TQBJ2148	O/I (SP)	1	
Δ	PCB12	TZTNP02AM5L	SMPS/AC INLET P.C.B.	1	
Δ	C1001	F0CAF104A105	0.1uF AC250 <= Vac <315	1	
Δ	C1006	F0CAF224A105	0.22uF AC250 <= Vac <315	1	
Δ	C1007	F1BAF471A215	470pF AC250 <= Vac <315	1	
Δ	C1008	F1BAF471A215	470pF AC250 <= Vac <315	1	
Δ	C1409	F1BAF471A215	470pF AC250 <= Vac <315	1	
Δ	C1518	F1BAF471A215	470pF AC250 <= Vac <315	1	
Δ	P1001	K2AA2B000011	AC INLET	1	
Δ	F1001	K5D103BNA005	FUSE	1	
Δ	F1401	K5G501YA0081	FUSE	1	
Δ	F1501	K5G502Y00006	FUSE	1	
Δ	L1002	G0B502J00005	INDUCTOR	1	
Δ	Q1403	B3PBA0000579	TRANSISTOR	1	
Δ	Q1404	B3PBA0000579	TRANSISTOR	1	
Δ	Q1405	B3PBA0000579	TRANSISTOR	1	
Δ	Q1505	B3PBA0000579	TRANSISTOR	1	
Δ	Q1701	B3PBA0000579	TRANSISTOR	1	
Δ	R1001	D0GF105JA048	1M 1/4W	1	
Δ	R1002	D0GF105JA048	1M 1/4W	1	
Δ	R1003	D0GF105JA048	1M 1/4W	1	
Δ	T1401	G4DYA0000592	TRANSFORMER	1	
Δ	T1501	G4DYA0000778	TRANSFORMER	1	
Δ	DZ1001	D4EAY511A127	VARISTOR	1	

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices.

Examples of typical ES devices are IC (integrated circuits) and some field-effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

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2.2. Precaution of Laser Diode

CAUTION:

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 790 nm (CD)

Maximum output radiation power from pickup: 100 μ W/VDE

Laser radiation from the pickup unit is safety level, but be sure the followings:

1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

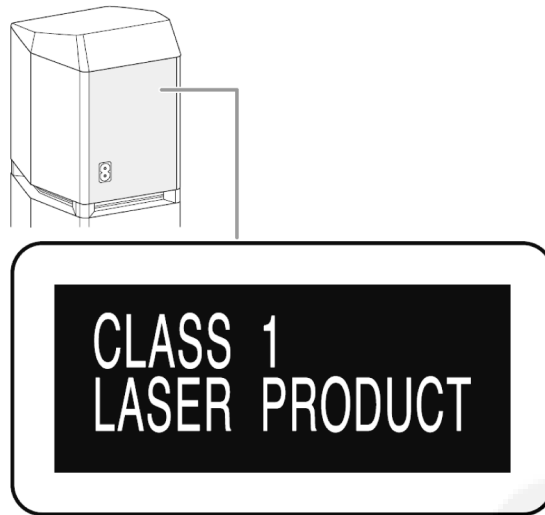


Figure 2-1

2.3. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder. (See right figure)	PbF
---	-----

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
(Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
RFKZ03D01K----- (0.3mm 100g Reel)
RFKZ06D01K----- (0.6mm 100g Reel)
RFKZ10D01K----- (1.0mm 100g Reel)

Note

* Ingredient: tin (Sn), 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

2.4. Handling Precautions for Traverse Unit

The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid caution to electrostatic breakdown when servicing and handling the laser diode in the traverse unit.

2.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit

The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.

4. The antistatic FFC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FFC.

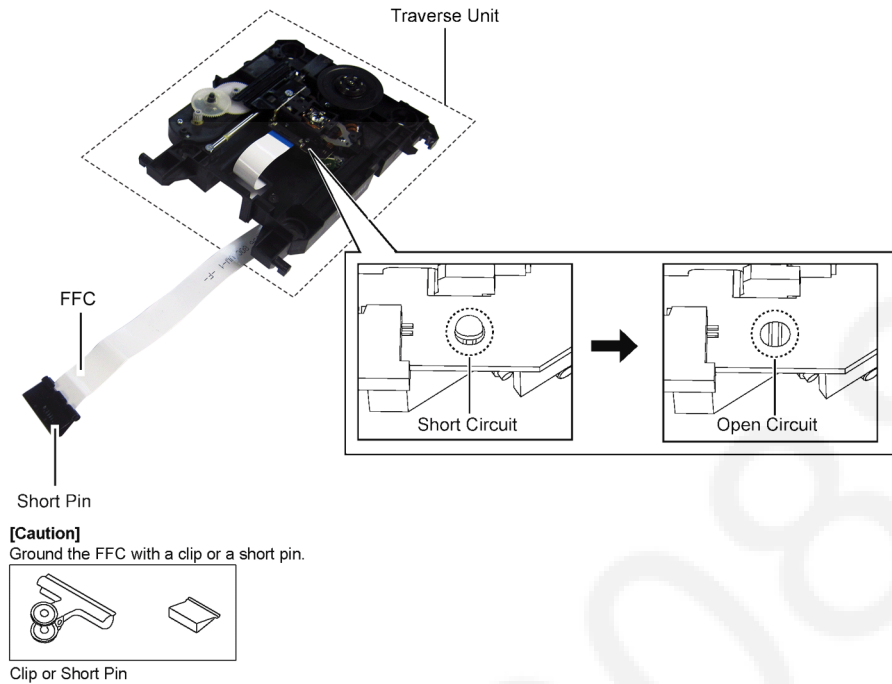


Figure 2-2

2.5. Grounding for electrostatic breakdown prevention

- As for parts that use optical pick-up (laser diode), the optical pick-up is destroyed by the static electricity of the working environment. Repair in the working environment that is grounded.

2.5.1. Worktable grounding

- Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed and ground the sheet.

2.5.2. Human body grounding

- Use the anti-static wrist strap to discharge the static electricity from your body Figure 2-1.

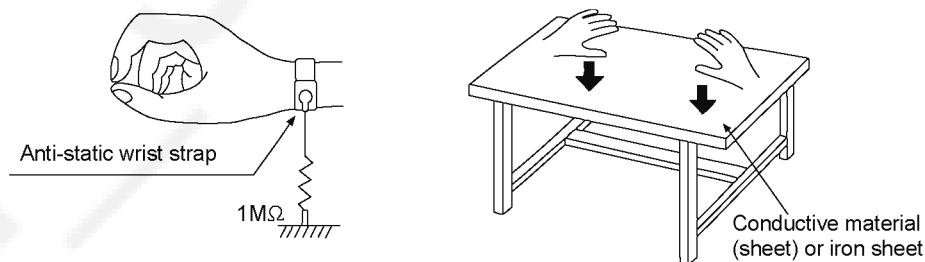


Figure 2-1

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

3.1.1. Software Update

Panasonic may release updated software for this system that may add or improve the way a feature operates.

For more details, refer to the following website.

<http://panasonic.jp/support/global/cs/>

4 Specifications

■ Amplifier section

RMS output power stereo mode

Front Ch (both ch driven)	500 W per channel (2 Ω), 1 kHz, 30% THD
Subwoofer Ch (x 2)	500 W per channel (2 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	2000 W

■ Tuner, terminals section

Frequency modulation (FM)

Preset memory	30 stations
Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

Digital audio input

Optical digital input	Optical terminal
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz (±100 ppm)
Audio format	PCM, Dolby Digital

Analog audio input

Audio input	Pin jack (1 system)
-------------	---------------------

Microphone

Terminal	Mono, 6.3 mm jack (2 system)
----------	------------------------------

■ Disc section

Disc played (8 cm or 12 cm)

CD, CD-R/RW (CD-DA, MP3*)

* MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up

Wavelength	790 nm (CD)
------------	-------------

■ USB section

USB port

USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32

USB recording

Bit rate	128 kbps
USB recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

■ Internal memory section

Memory

Memory size	4 GB
Media file format support	MP3 (*.mp3)

Memory recording

Bit rate	128 kbps
Memory recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

■ Bluetooth® section

Version

Bluetooth® Ver. 2.1 + EDR

Class

Class 2

Supported profiles

A2DP, AVRCP, SPP, OPP, FTP

Operating frequency

2.4 GHz band FH-SS

Frequency band

2402 MHz to 2480 MHz

Maximum power (EIRP)

4 dBm

Operation distance

10 m line of sight

Supported codec

SBC

■ Speaker section

Front speaker

Speaker unit(s)

Tweeter x 4	6 cm cone type
Woofer x 4	8 cm cone type

Subwoofer

Speaker unit(s)

Super Woofer x 2	20 cm cone type
------------------	-----------------

■ General

Power supply

AC 220 to 240 V, 50/60 Hz (for PR)
AC 110 to 240 V, 50/60 Hz (for PU)

Power consumption

200 W

(For Mexico)

Power consumption per day	200 Wh per day (200 W, 1 hour)
Power consumption per day (in standby mode)	11.5 Wh per day (0.5 W, 23 hours)

Dimensions (W x H x D)

300 mm x 946 mm x 295 mm

Mass

21 kg

Operating temperature range

0 °C to +40 °C

Operating humidity range

35% to 80% RH (no condensation)

Power consumption in standby mode (approximate)

0.5 W

(With "BLUETOOTH STANDBY" set to "OFF")

Power consumption in standby mode (approximate)

0.6 W

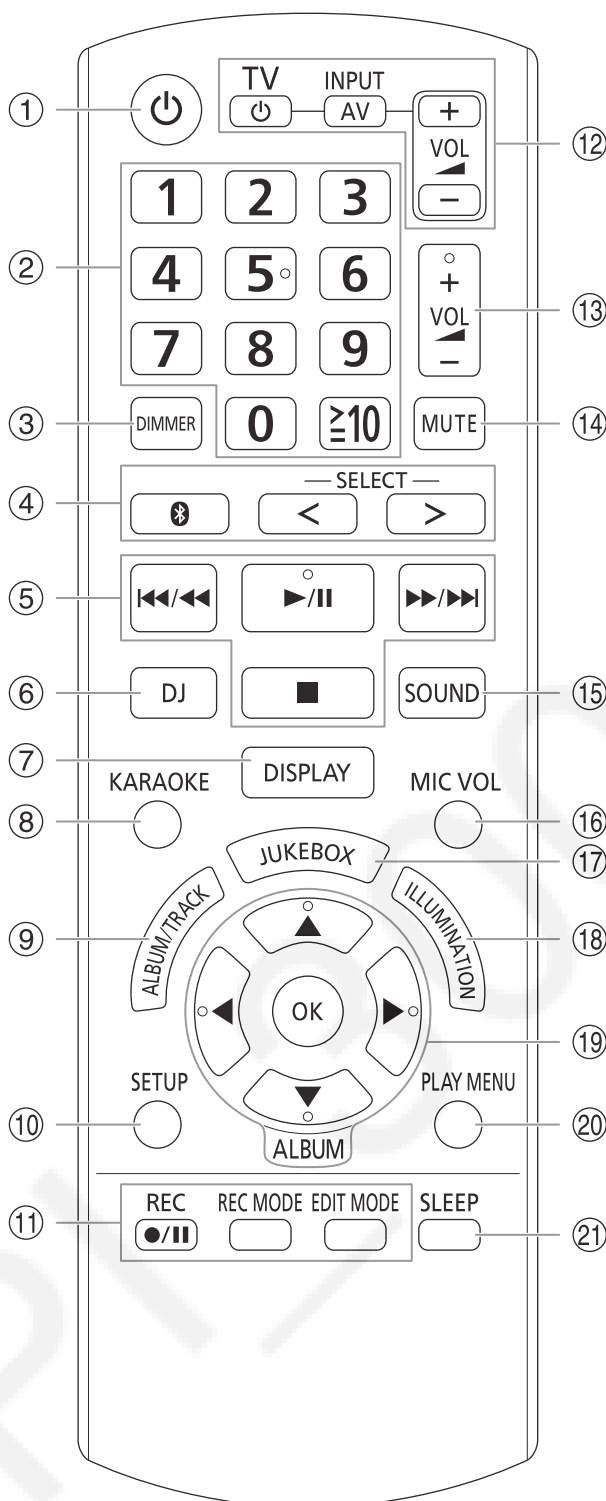
(With "BLUETOOTH STANDBY" set to "ON")

Note:

- Specifications are subject to change without notice. Mass and dimension are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

5 Location of Controls and Components

5.1. Remote Control Key Button Operation

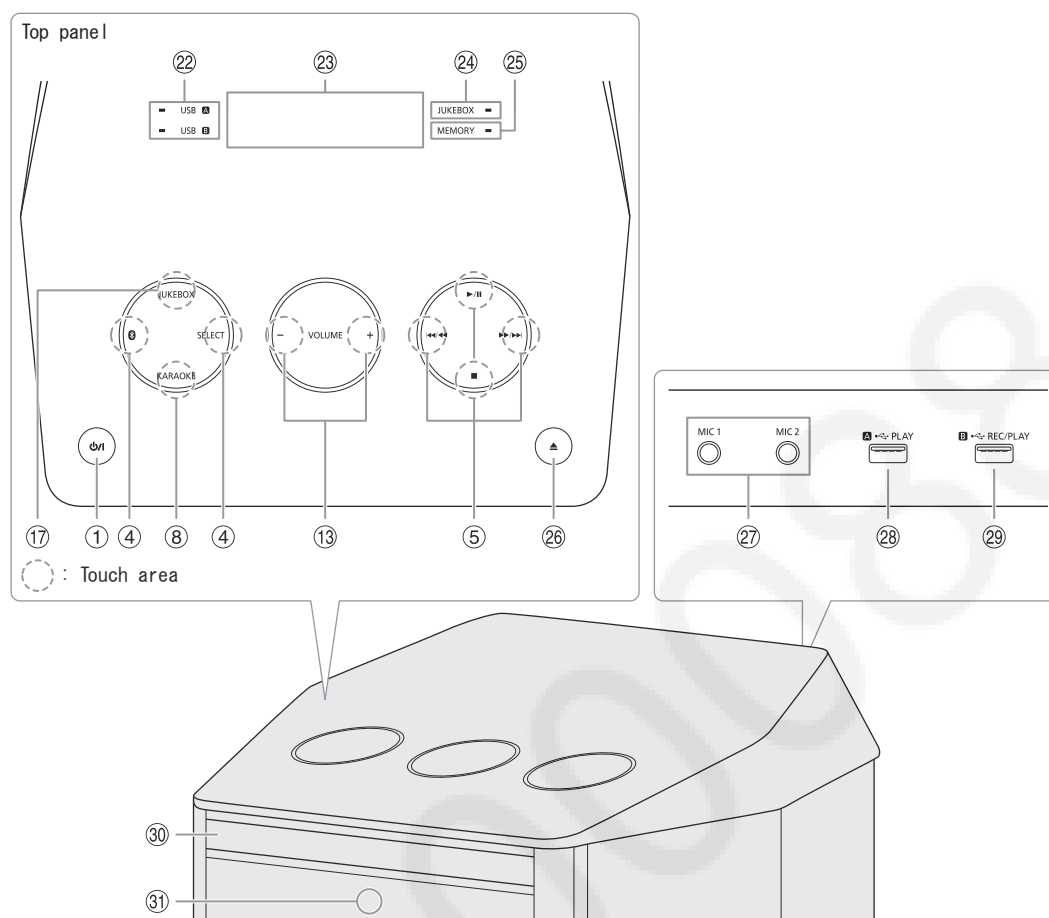


- ① Standby/on switch** [⏻], [🔌/⏻]
Press*1 or touch*2 to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
*1 For the button on the remote control
*2 For the touch key on the unit
- ② Numeric buttons**
To select a 2-digit number
Example: 16: [≥10]→[1]→[6]
- ③ Decrease the brightness of the display panel and the illumination**
The status indicators are also switched off.
To cancel, press the button again.
- ④ Select the audio source**
Press [SELECT <, >] (unit: [SELECT]) repeatedly to select the source:

USB A → USB B → CD → FM → D-IN
↑ ↓
MEMORY ← BLUETOOTH ← AUX

On the unit:
To start Bluetooth® pairing, touch and hold [].
- ⑤ Basic playback control**
- ⑥ Select DJ effect or DJ sampler**
- ⑦ View the content information**
- ⑧ Select the Karaoke effects**
- ⑨ Select MP3 album or track**
- ⑩ View the setup menu**
- ⑪ Recording operation control**
- ⑫ Operate a Panasonic TV** (compatible models only)
Point the remote control to a Panasonic TV:
[📺/TV]: Switch on or switch off the TV
[AV//INPUT]: Change the video input mode of the TV
[VOL +/-]: Adjust the volume level of the TV
- ⑬ Adjust the volume level**
- ⑭ Mute the sound**
To cancel, press the button again.
“MUTE” is also canceled when you adjust the volume or when you switch off the system.
- ⑮ Select the sound effects**
- ⑯ Adjust the microphone volume level**
- ⑰ Select DJ jukebox or Karaoke jukebox**
- ⑱ Switch on or switch off the illumination**
- ⑲ Select or confirm the option**
- ⑳ View the play menu**
- ㉑ Set the sleep timer**

5.2. Main Unit Key Button Operation



- ① **Standby/on switch** [⏻], [⏻/⏻]
Press*1 or touch*2 to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still
- ④ **Select the audio source**
Press [SELECT <, >] (unit: [SELECT]) repeatedly to select the source:
USB A → USB B → CD → FM → D-IN
↑
MEMORY ← BLUETOOTH ← AUX
On the unit:
To start Bluetooth® pairing, touch and hold [📶].

- ⑤ Basic playback control
- ⑧ Select the Karaoke effects
- ⑬ Adjust the volume level
- ⑰ Select DJ jukebox or Karaoke jukebox
- ⑳ USB status indicator
- ㉓ Display panel
- ㉔ DJ jukebox or Karaoke jukebox status indicator
- ㉕ Internal memory status indicator

- ㉖ Open or close the disc tray

- ㉗ Microphone jack

- ㉘ **USB A**
USB port (🔌)
Play MP3 tracks.

- ㉙ **USB B**
USB port (🔌)
Play MP3 tracks.
Record sound or music tracks.

- ㉚ Disc tray

- ㉛ **Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 20° up and down, 30° left and right

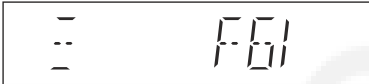
Note:

You can use the touch keys just by touching the marks. The system beeps when you touch any touch key. Refer to "Touch sound" on how to switch off the touch sound.

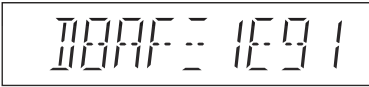
- To ensure these touch keys are operated correctly, make sure to touch within the touching area of the mark (refer to the illustration above for the touch area).
- To avoid operating these touch keys unintentionally, do not put any object on them.

6 Service Mode

6.1. Self Diagnostic Mode

Item		FL display	Key operation
Mode name	Description		
Service Mode	To enter into Service Mode checking.		In CD Mode: Step 1 : Select [■] and [▶/▶] on main set for more than 2 seconds. Step 2 : When [SERVICE?] appear, press [SELECT] on main set to confirm.
Error code information	System will perform a check on any unusual/error code from the memory.	Example: 	Step 1 : In service mode, Press [■] on main unit. To exit, press [⏻] on main unit or remote control.
Delete Error code	To clear the stored in memory (EEPROM IC).		Step 1 : In service mode, Press [OK] on remote control for more than 5 seconds during error code display mode. To exit, press [⏻] on main unit or remote control.
Cold Start	To carry out cold-start or initialize to shipping mode		Step 1 : In service mode, press [SETUP] on remote control. Step 2 : When "AC OUT" appear, unplug AC power cord. Step 3 : Plug in AC power cord.
Opecon Version	Opecon version display	Opecon Version: 	Step 1 : Enter service mode Press [DISPLAY] on the remote control. To exit, press [⏻] on main unit or remote control.

6.2.2. Doctor Mode Table 2

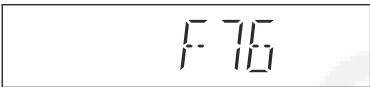
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Bluetooth MAC Address Checking	Bluetooth Address Check	 Display of Bluetooth MAC Address will scroll forever	In Doctor Mode: 1. Press [≥ 10] → [4] → [1] on the remote control and display will show. 2. To cancel this mode press [ϕ/I] button on Main Unit.
Bluetooth Module Check	Bluetooth module check	Device name is set to [SC-UA90 Panasonic]	In Doctor Mode: 1. Press [REC] on the remote control and display will show.
Region Check	Checking for model no and Region		In Doctor Mode: 1. Press [DJ] button on the remote control. 2. To cancel this mode press [ϕ/I] button on Main Unit.

6.3. Self-Diagnostic Error Code Table

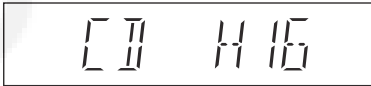
Self-Diagnostic Function (Refer Section 6.1. Self-Diagnostic Mode) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

The error code is automatically display after entering into Error code information (6.1).

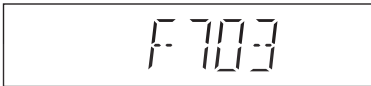
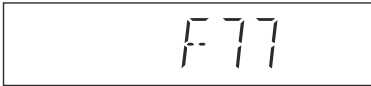
6.3.1. Power Supply Error Code Table

Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code F61	Diagnosis Contents: DAMP output abnormal. PDET2 (DC_DET_AMP) = L (NG)		1. To clear the error code, press [OK] on the remote control for more than 5 sec. "CLEAR" will display 2. Press [■] on main unit for next error.	Check following: 1. Fan Unit 2. SMPS P.C.B. 3. Speaker Connection
Error Code F76	Diagnosis Contents: Power supply abnormal. PDETI (DC_DET_PWG) = L (NG)		1. To clear the error code, press [OK] on the remote control for more than 5 sec. "CLEAR" will display 2. Press [■] on main unit for next error.	Check supply voltages on Main P.C.B.

6.3.2. CD Mechanism Error Code Table

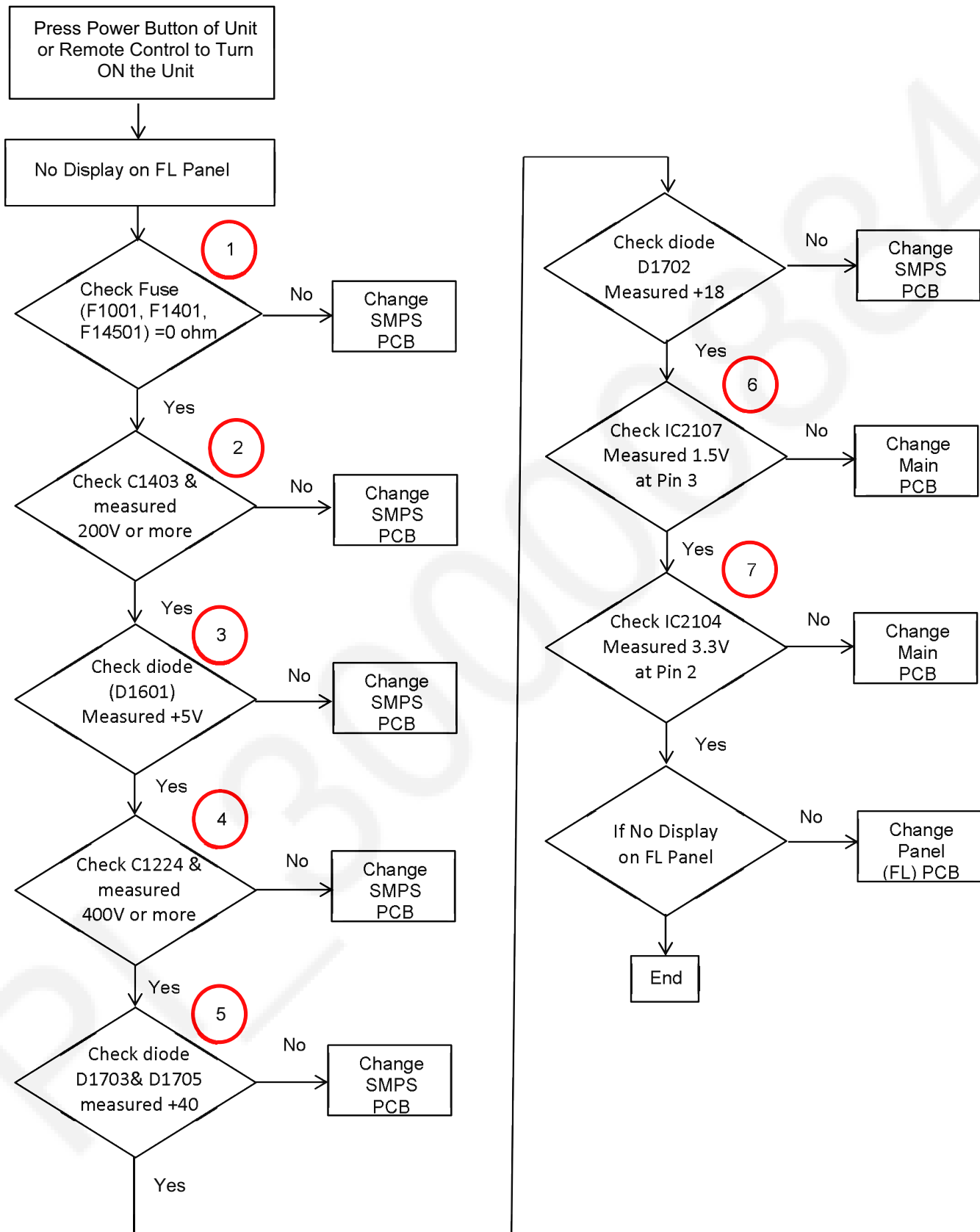
Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code CD H15	Diagnosis Contents: CD Open Abnormal. During operation POS_SW_R (OPEN_SW) fail to be detected within 4 to 5 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.	Check following: 1. CD Interface P.C.B. (Pin 3, 4, 6) 2. SOC IC (IC1001)
Error Code CD H16	Diagnosis Contents: CD Closing Abnormal. During operation POS_SW_CEN (CLOSE_SW) On fail to be detected within 4 to 5 sec. Error No. shall be clear by force		Press [■] on main unit for next error.	Check following: 1. CD Interface P.C.B. (Pin 6, 3, 4) 2. SOC IC (IC1001)

6.3.3. Bluetooth Error Code Table

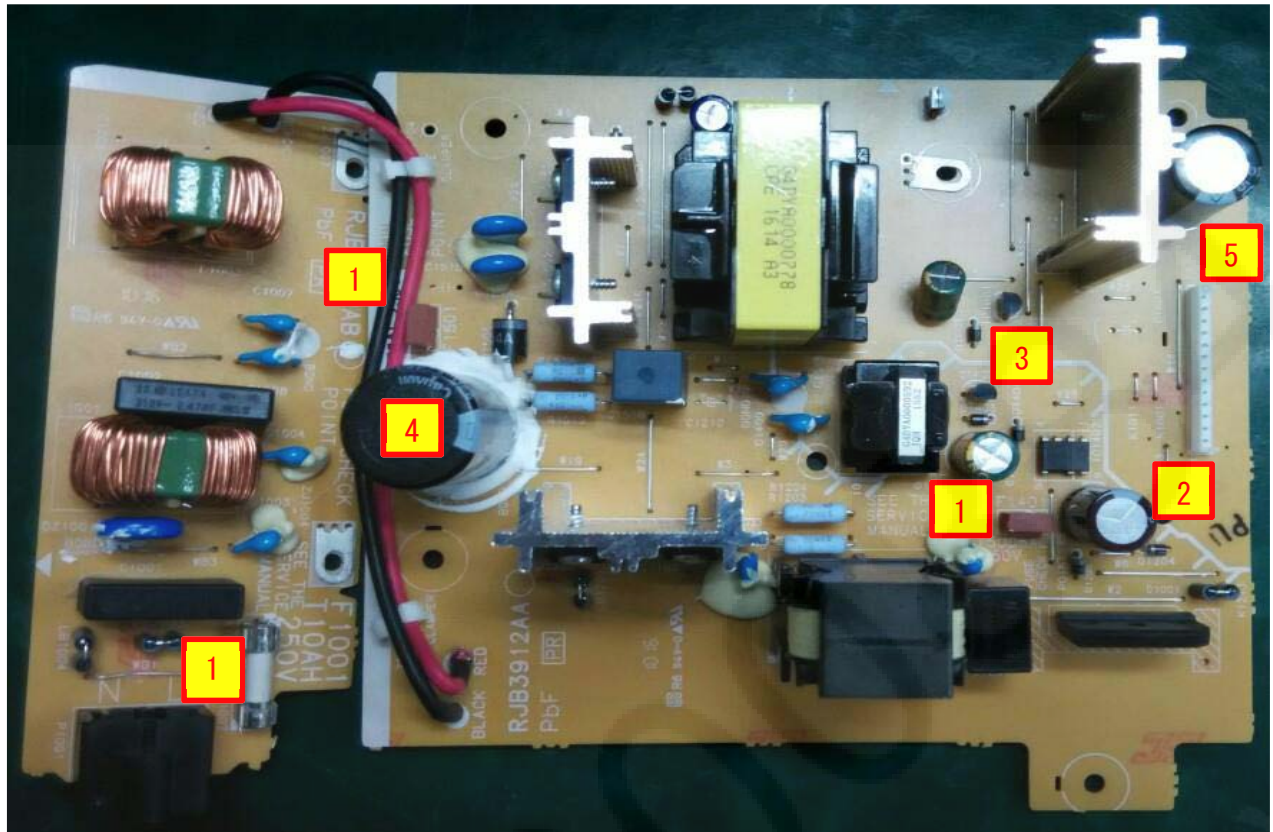
Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code F703	Diagnosis Contents: Bluetooth Communication. Communication between Bluetooth module and micro-p abnormal.		1. To clear the error code, press [OK] on the remote control for more than 5 sec. "CLEAR" will display 2. Press [■] on main unit for next error.	Check following: 1. Bluetooth P.C.B. 2. SOC IC on Main P.C.B.
Error Code F77	Diagnosis Contents: Bluetooth Address Error If there is no valid Bluetooth address stored in the EEPROM IC.		1. To clear the error code, press [OK] on the remote control for more than 5 sec. "CLEAR" will display 2. Press [■] on main unit for next error.	Check following: 1. EEPROM IC (IC1004) on Main P.C.B.

7 Troubleshooting Guide

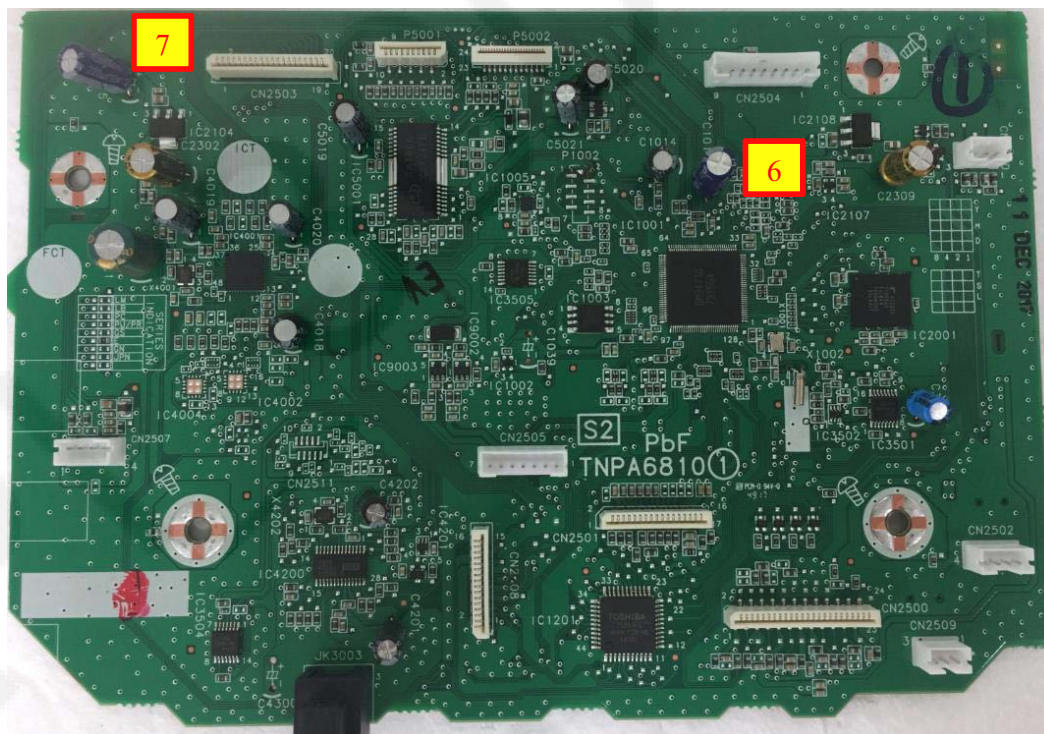
7.1. No power (No LED Display + No Response)



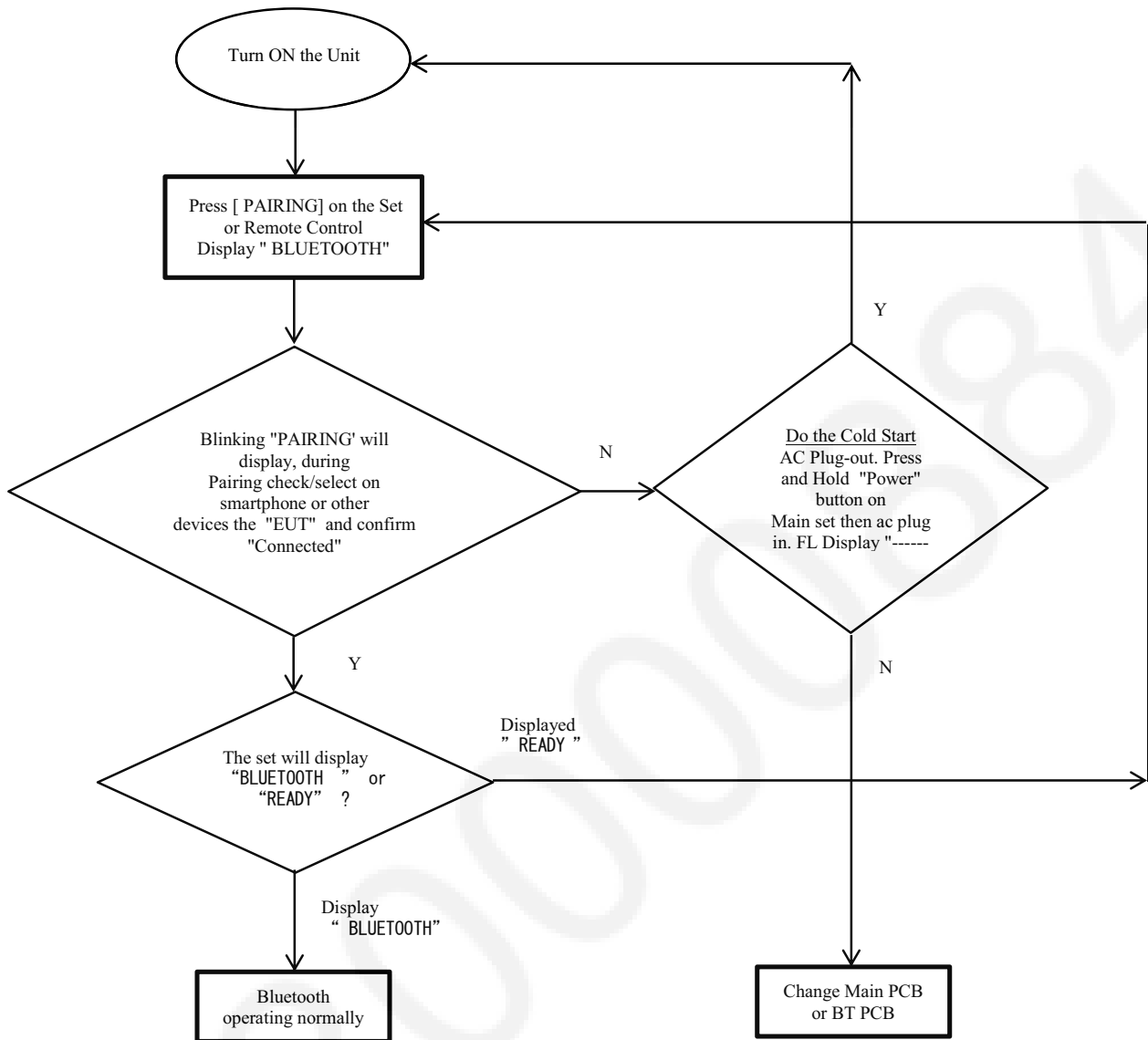
7.1.1. Check Point Power P.C.B.



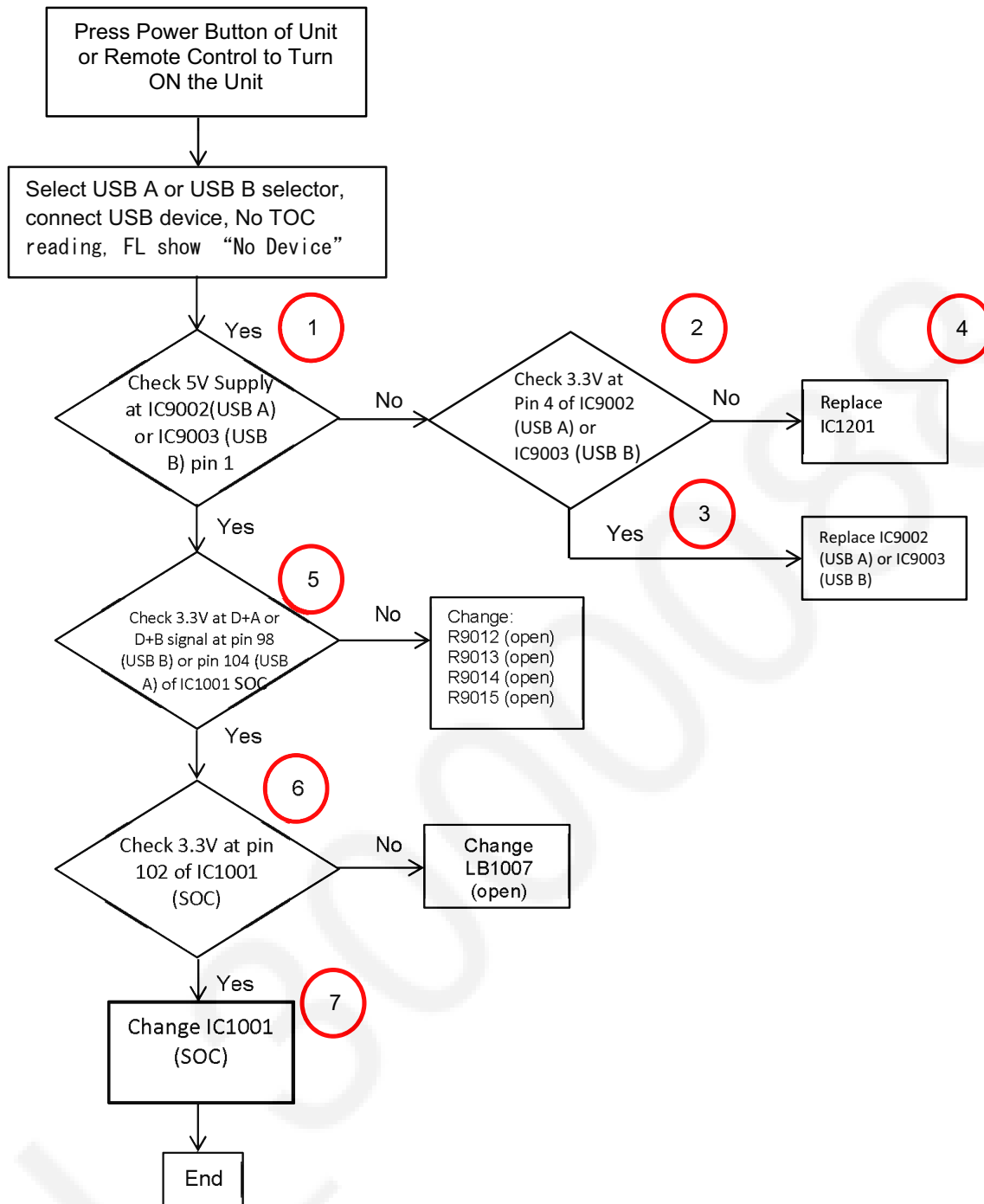
7.1.2. Check Point Main P.C.B.



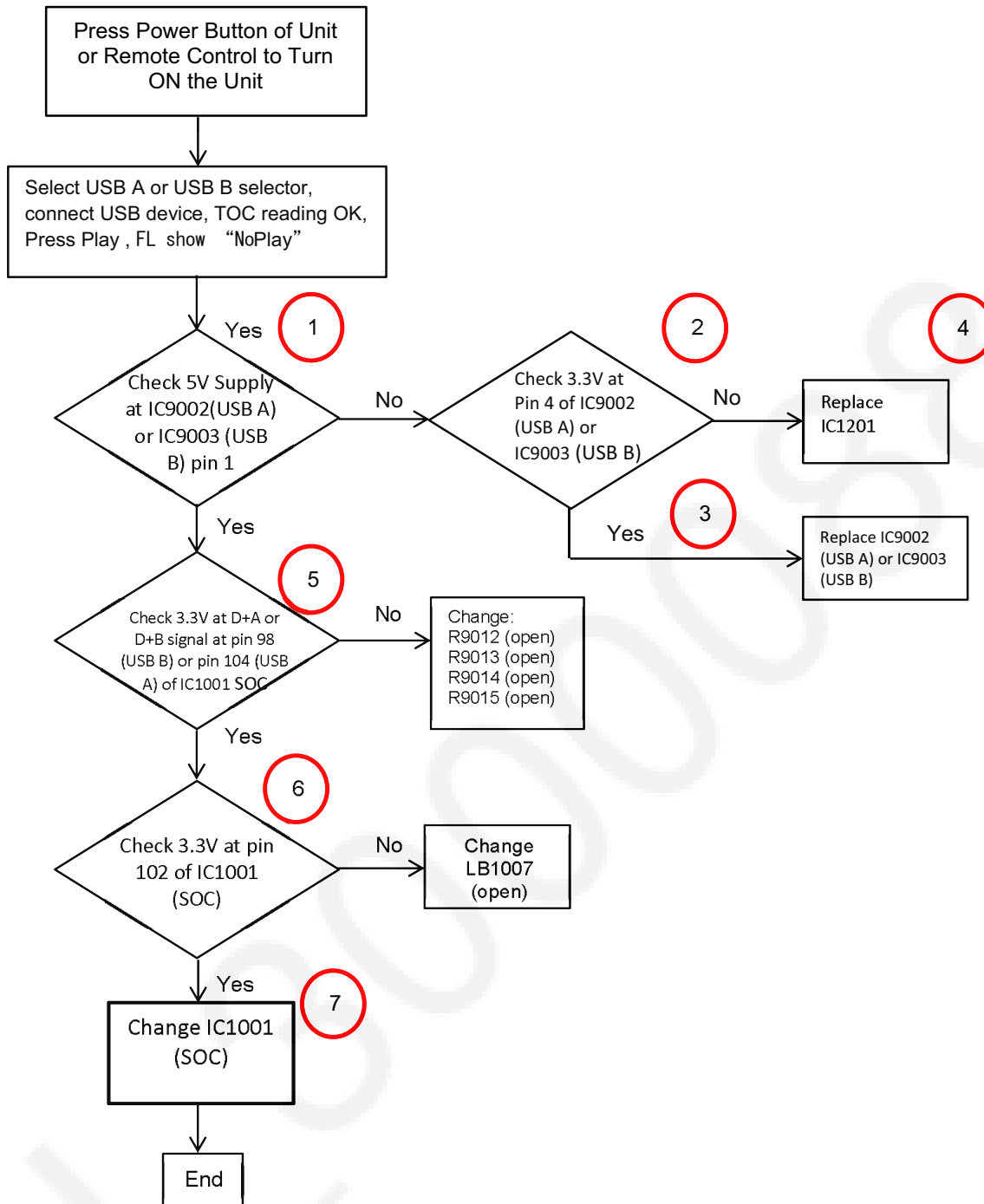
7.2. Bluetooth® Pairing Failure



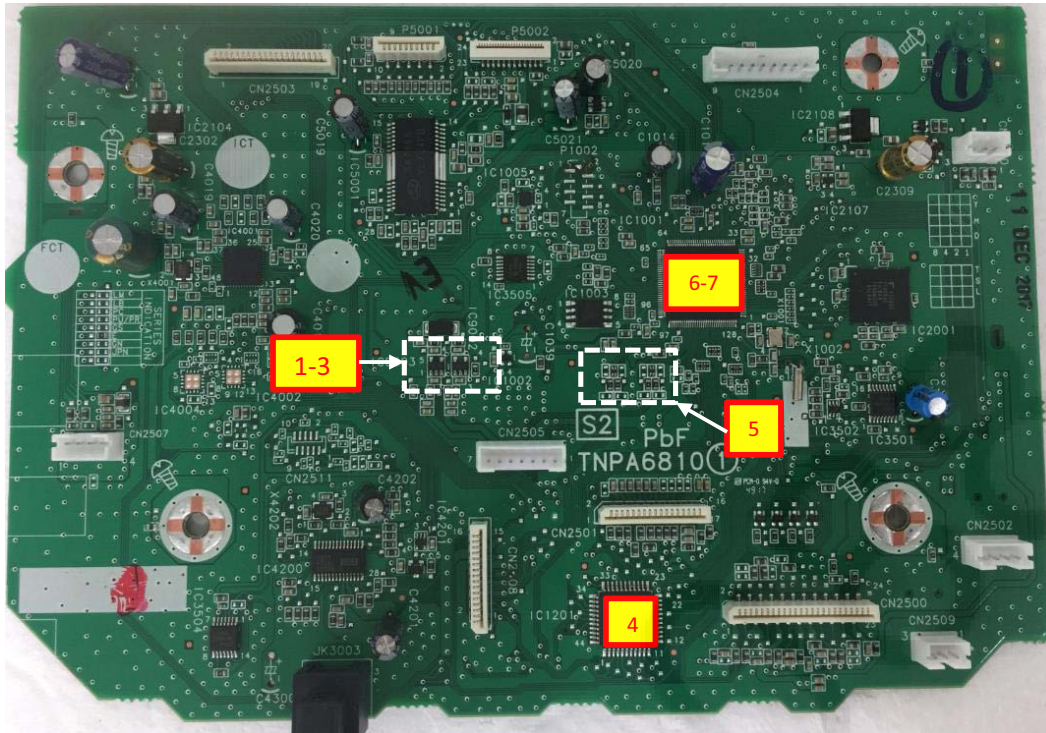
7.3. FL Show “No Device” at USB selector Only



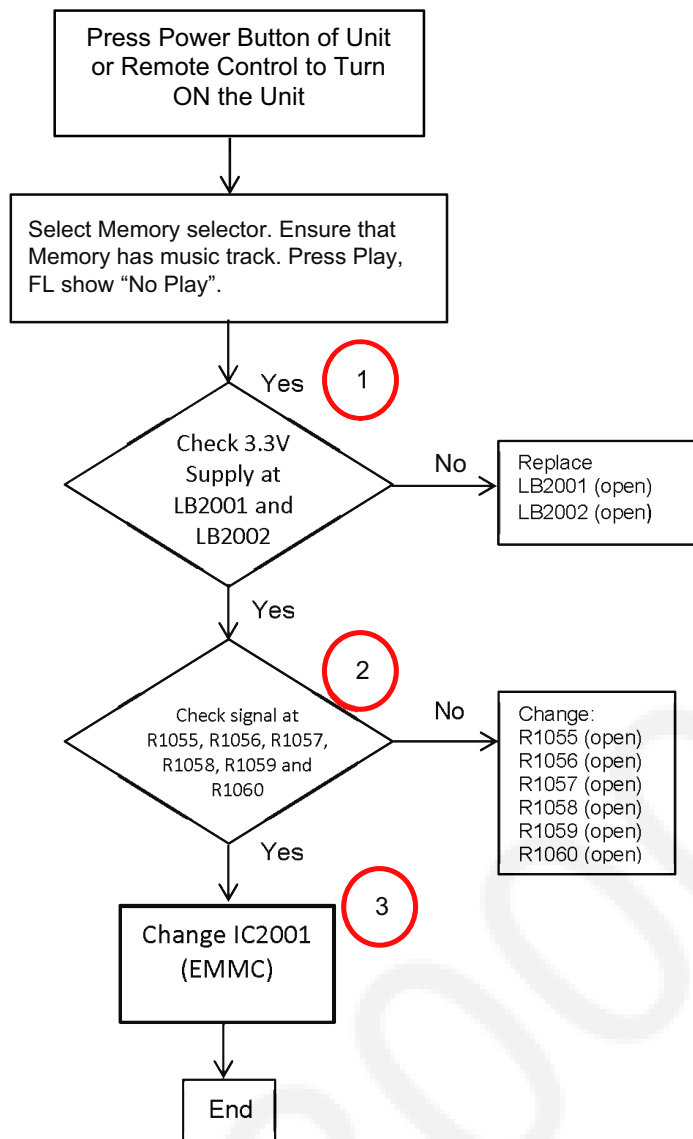
7.4. FL Show “No Play” at USB selector Only



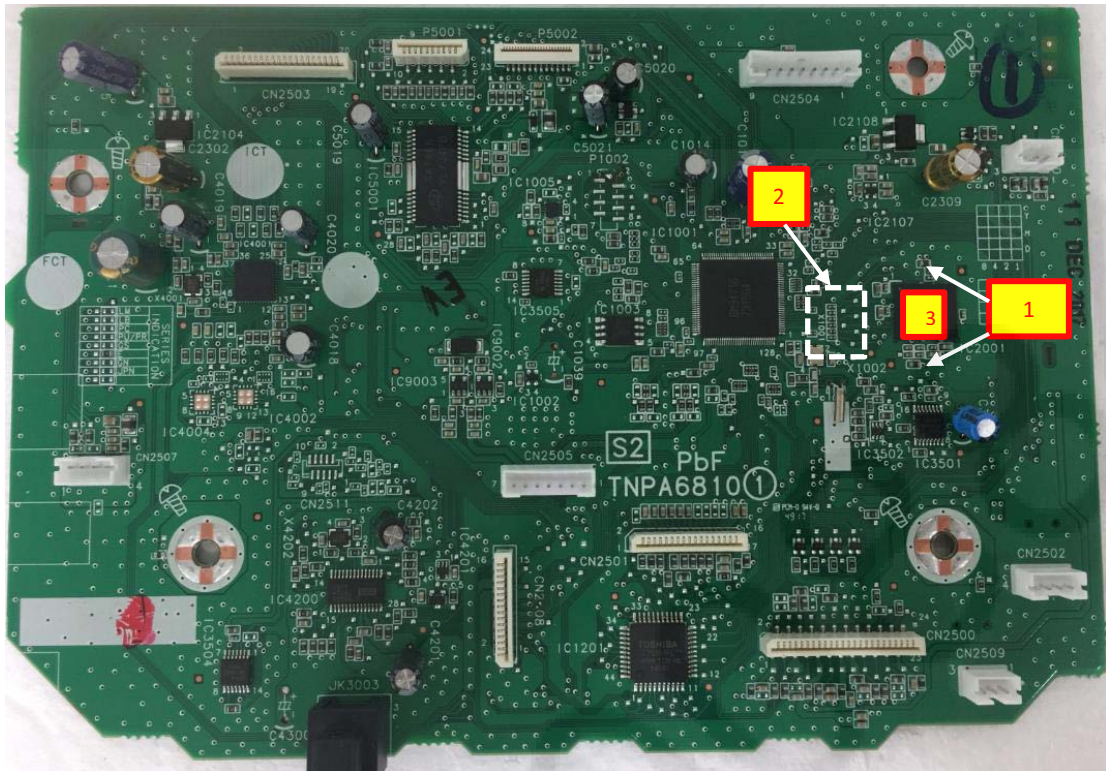
7.4.1. Check Point Main P.C.B.



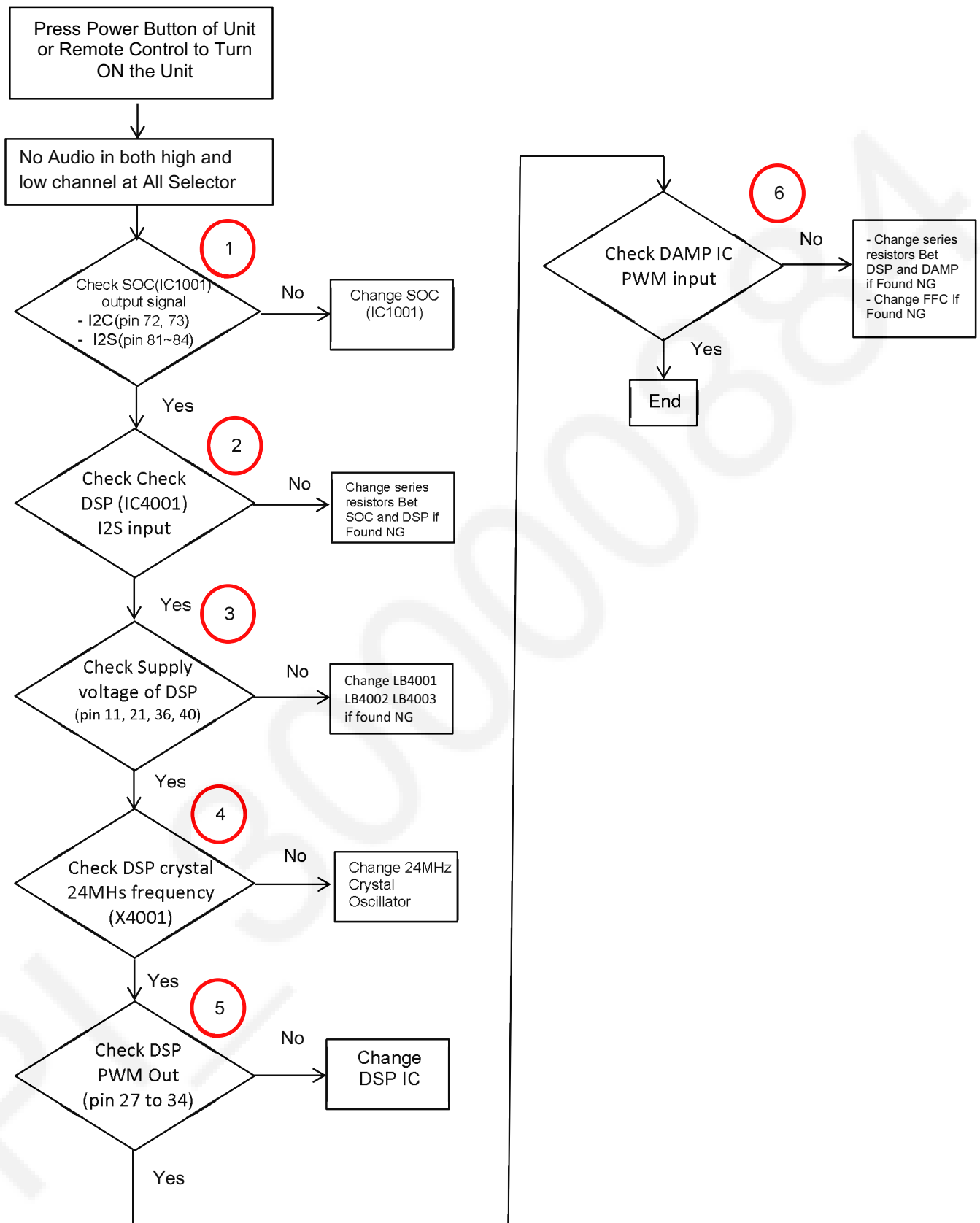
7.5. FL Show “No Play” at Memory selector Only



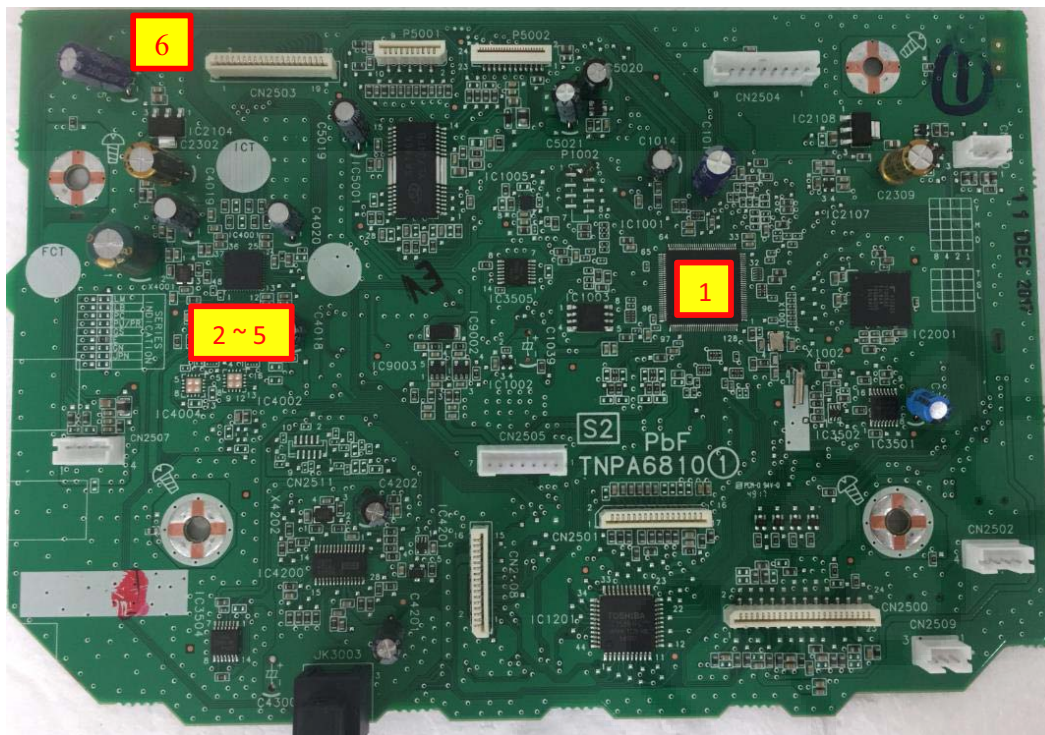
7.5.1. Check Point Main P.C.B.



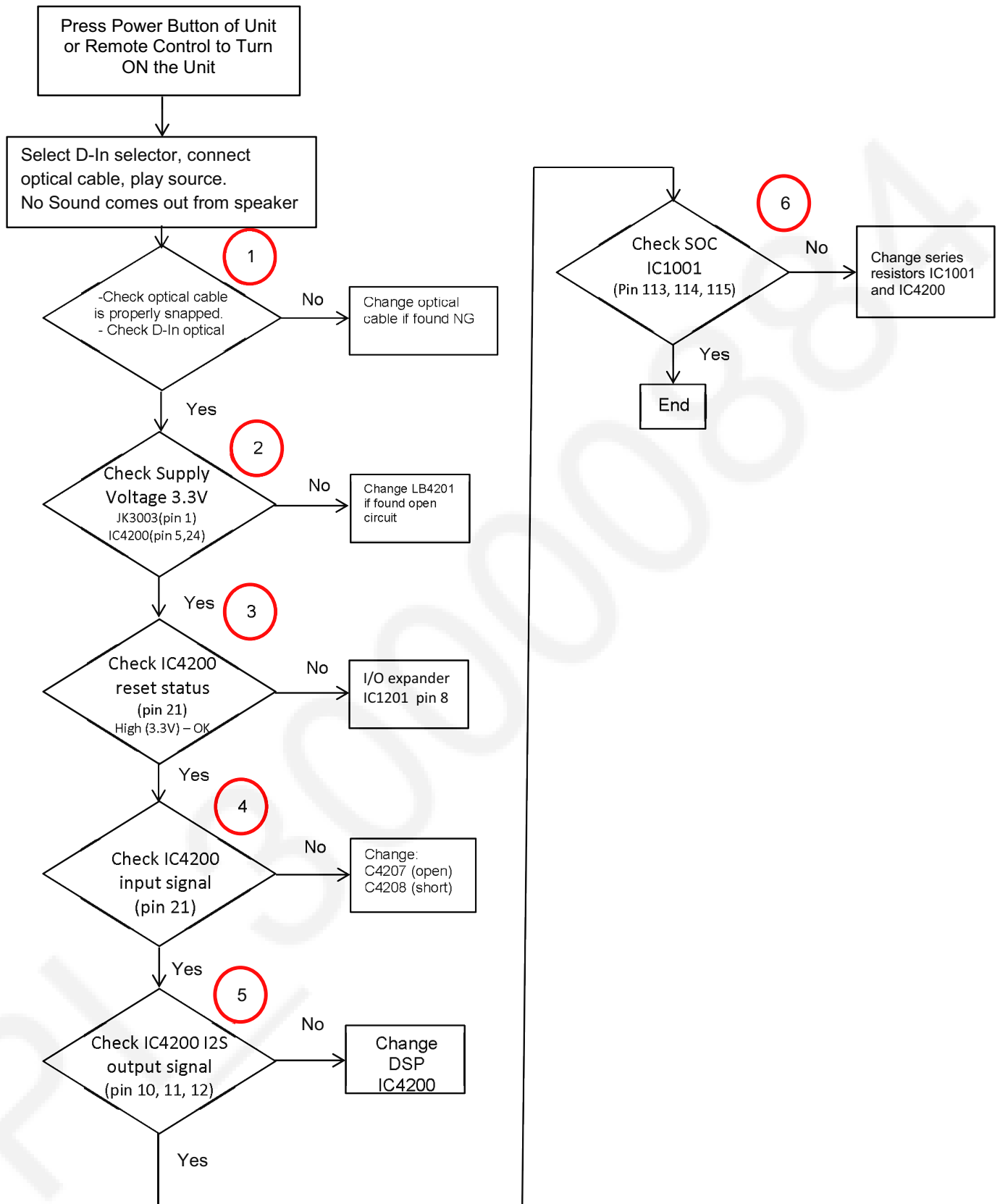
7.6. No Sound coming out from All speakers



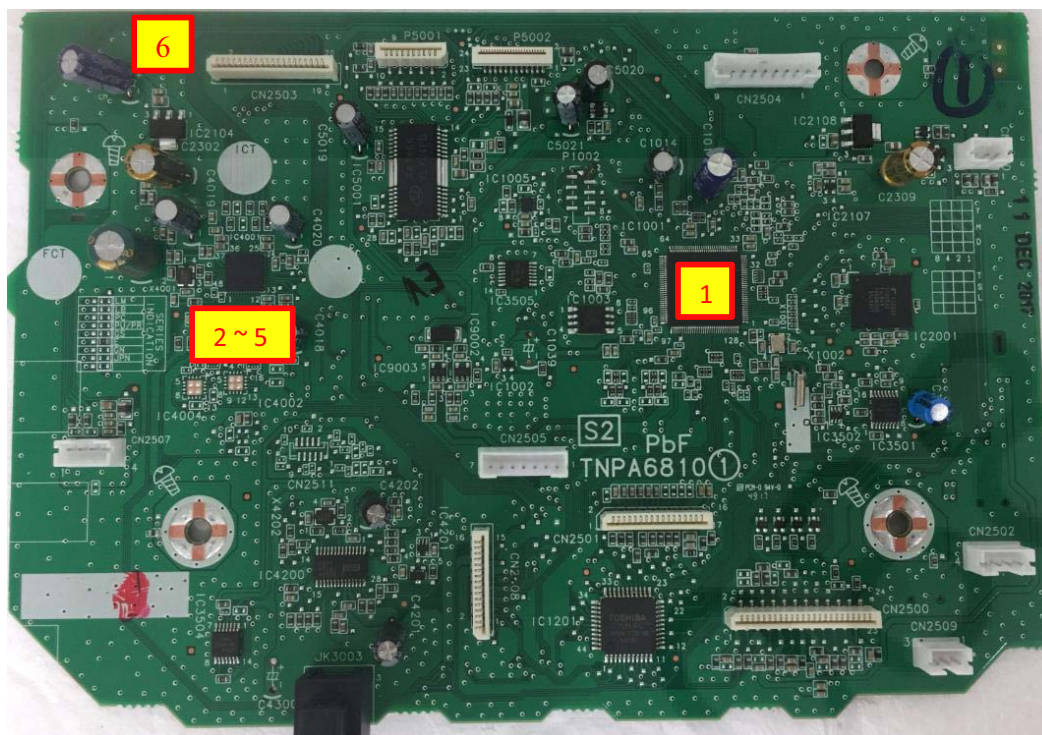
7.6.1. Check Point Main P.C.B.



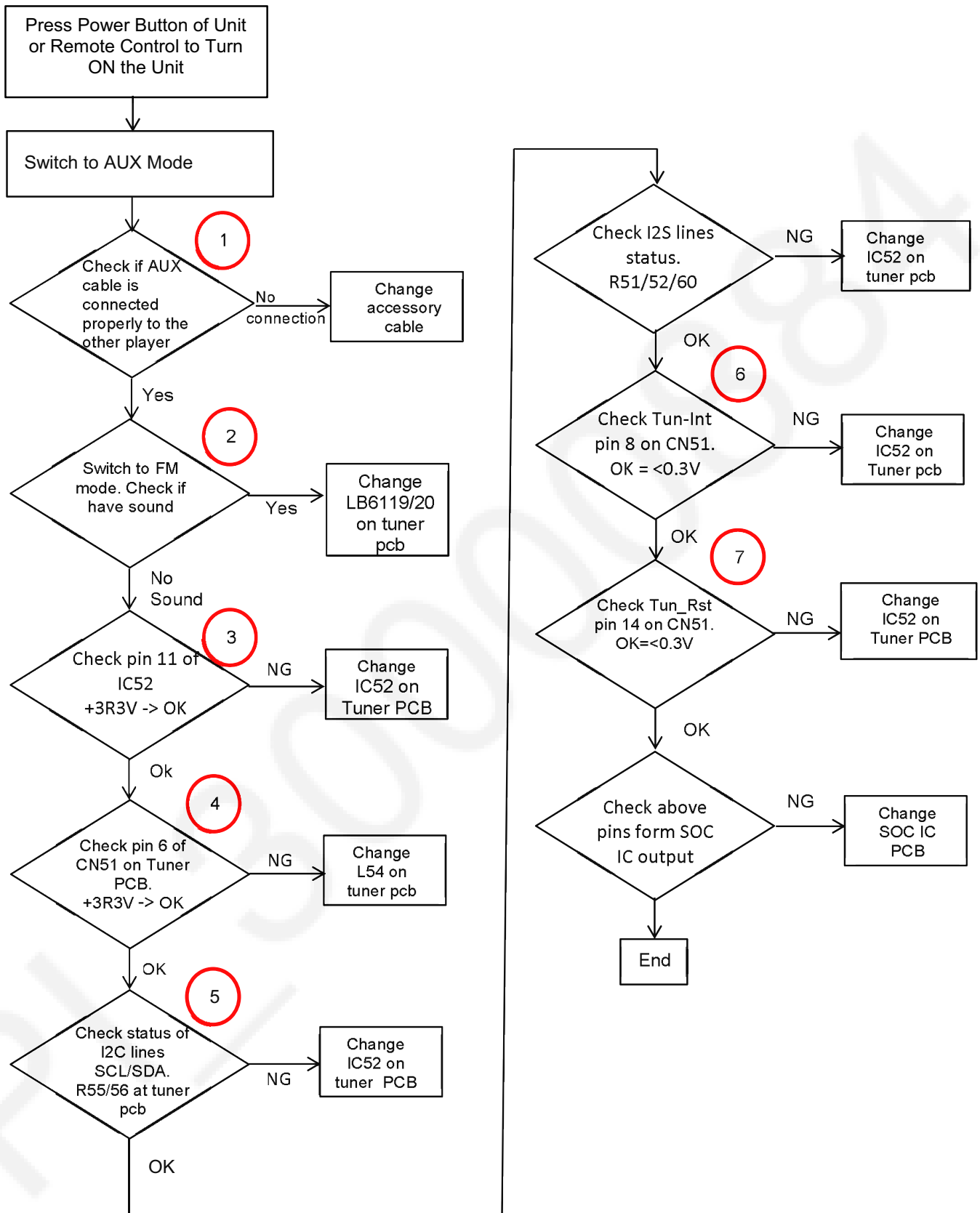
7.7. No Sound at D-In selector Only



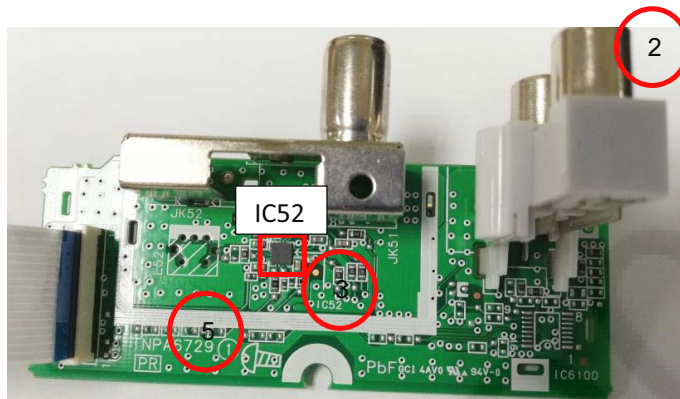
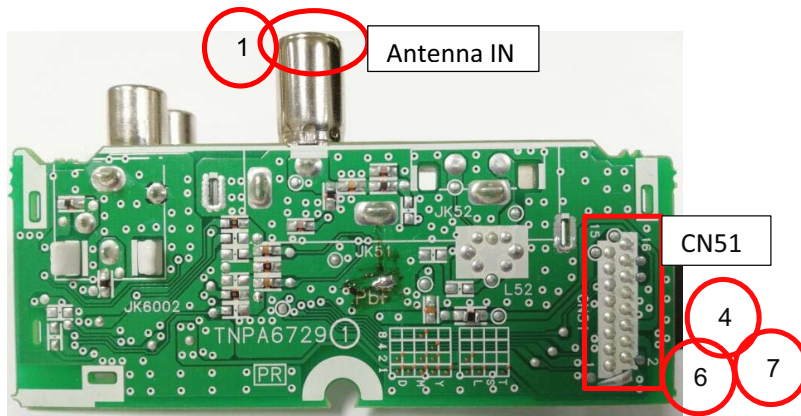
7.7.1. Check Point Main P.C.B.



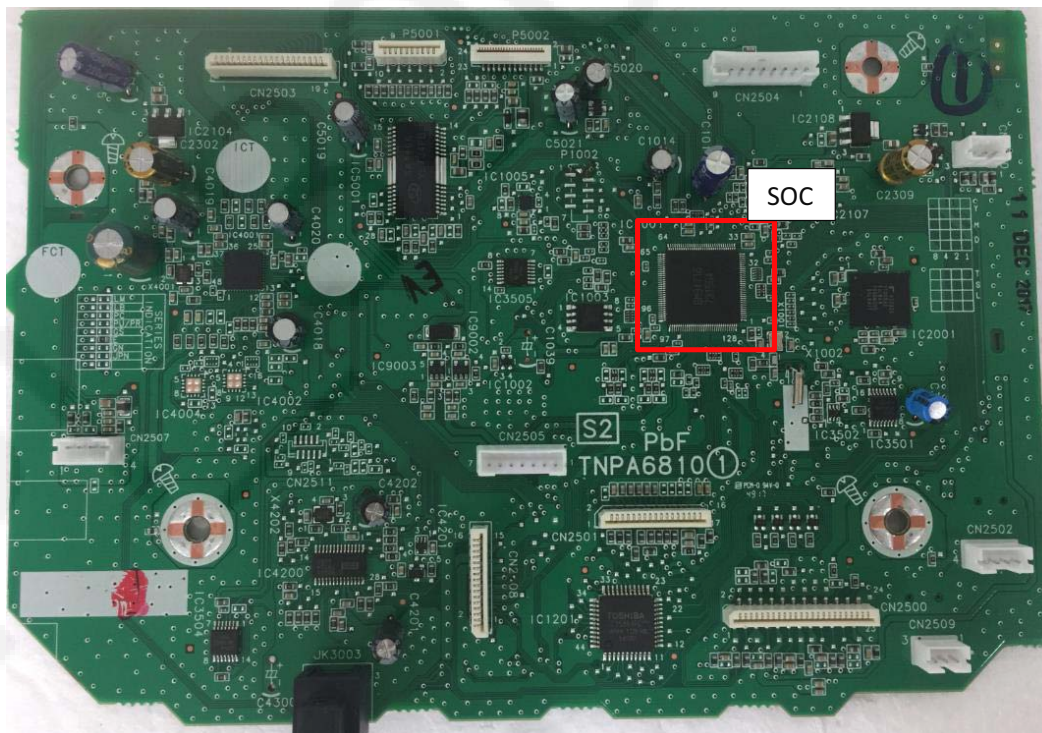
7.8. No Sound in AUX Mode



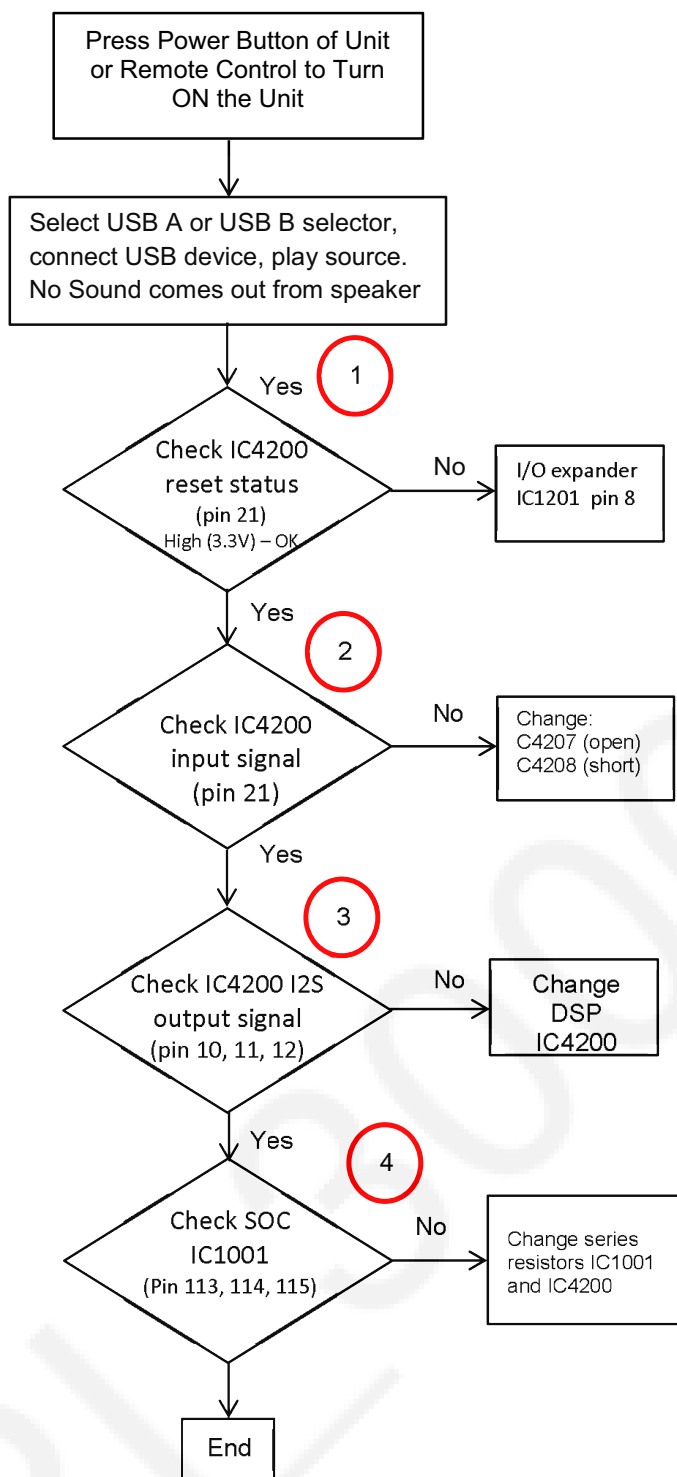
7.8.1. Check Point Tuner P.C.B.



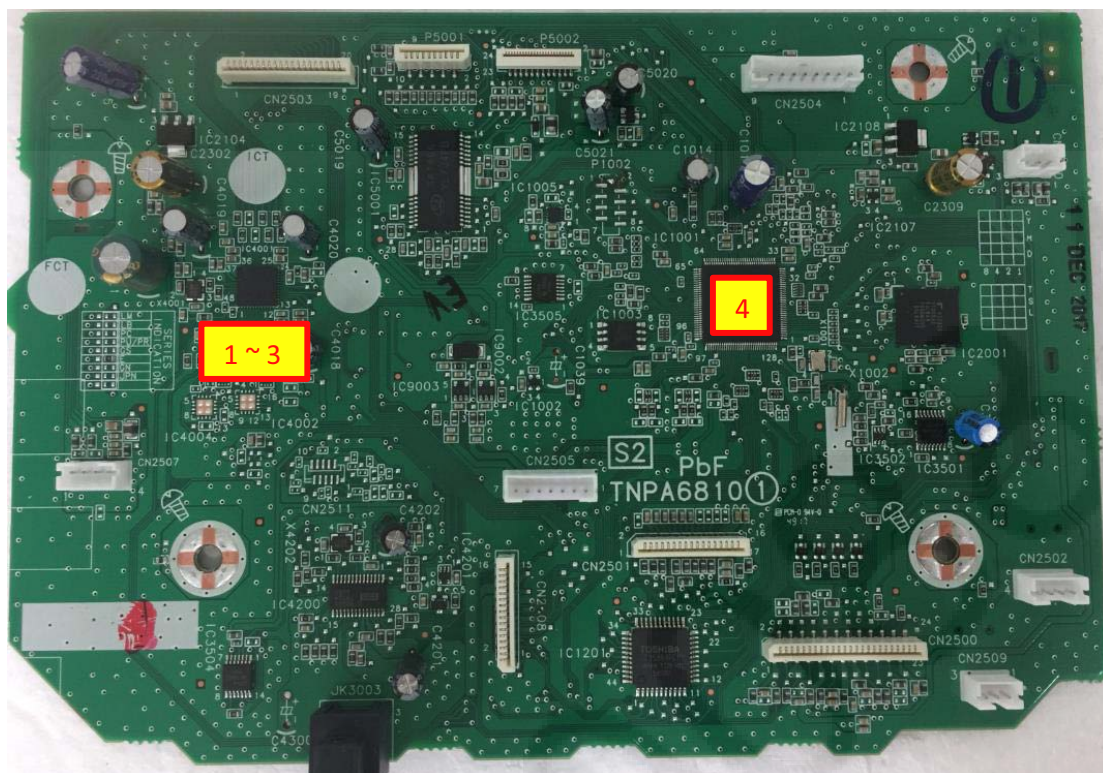
7.8.2. Check Point Main P.C.B.



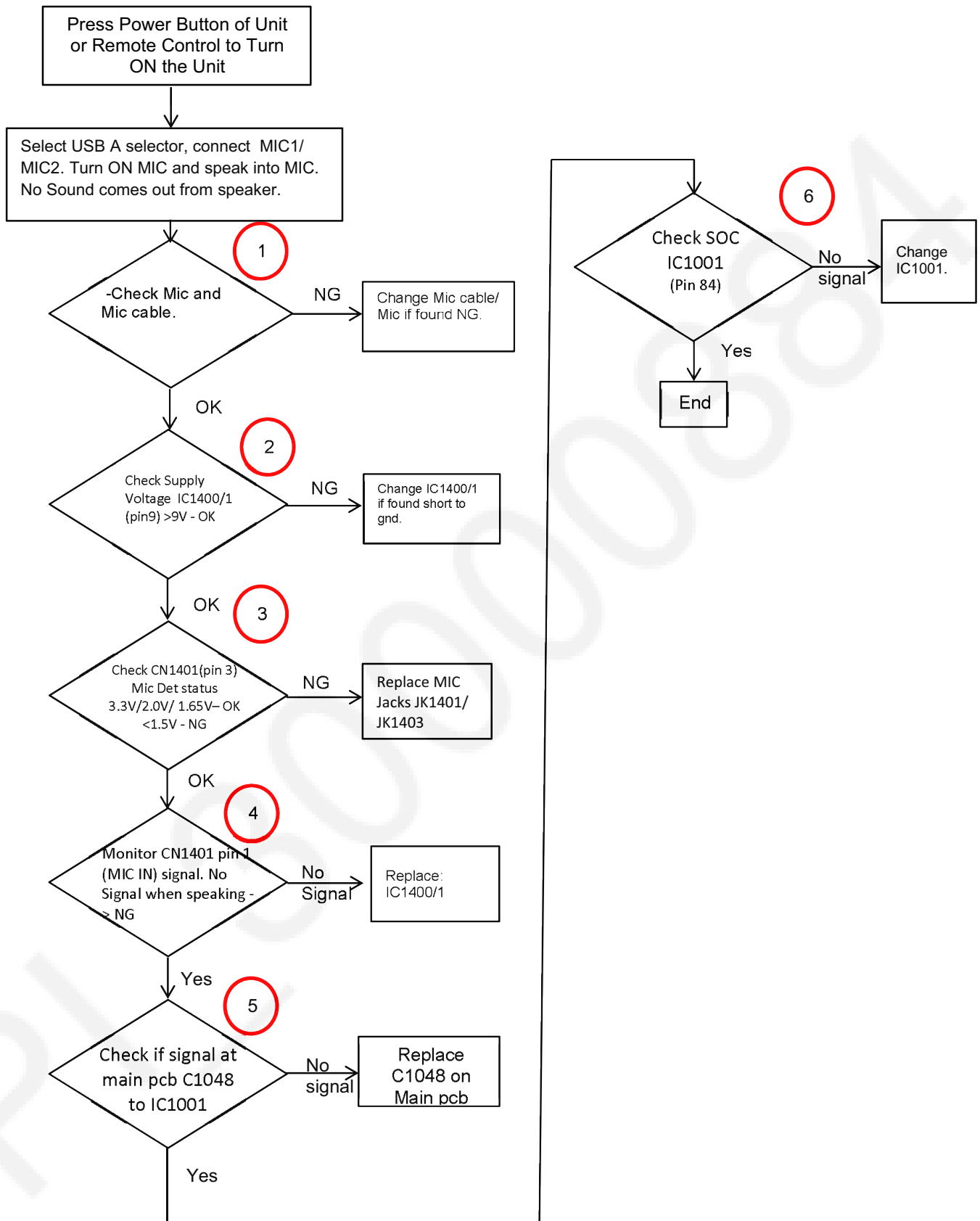
7.9. No Sound at USB selector Only



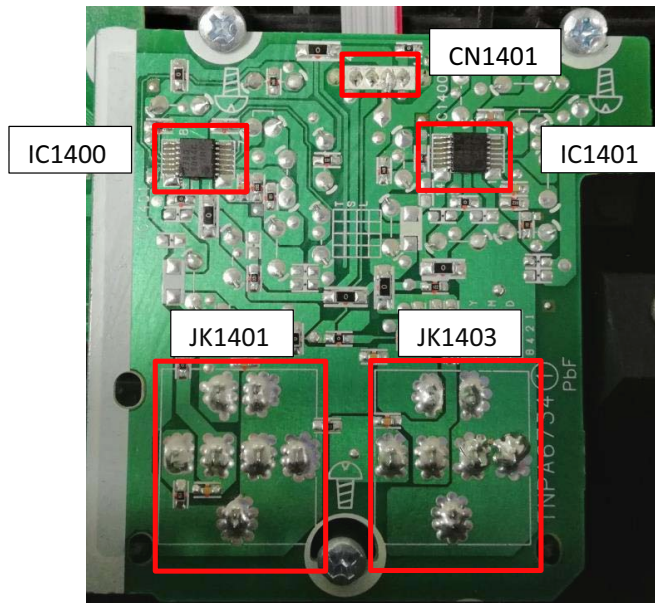
7.9.1. Check Point Main P.C.B.



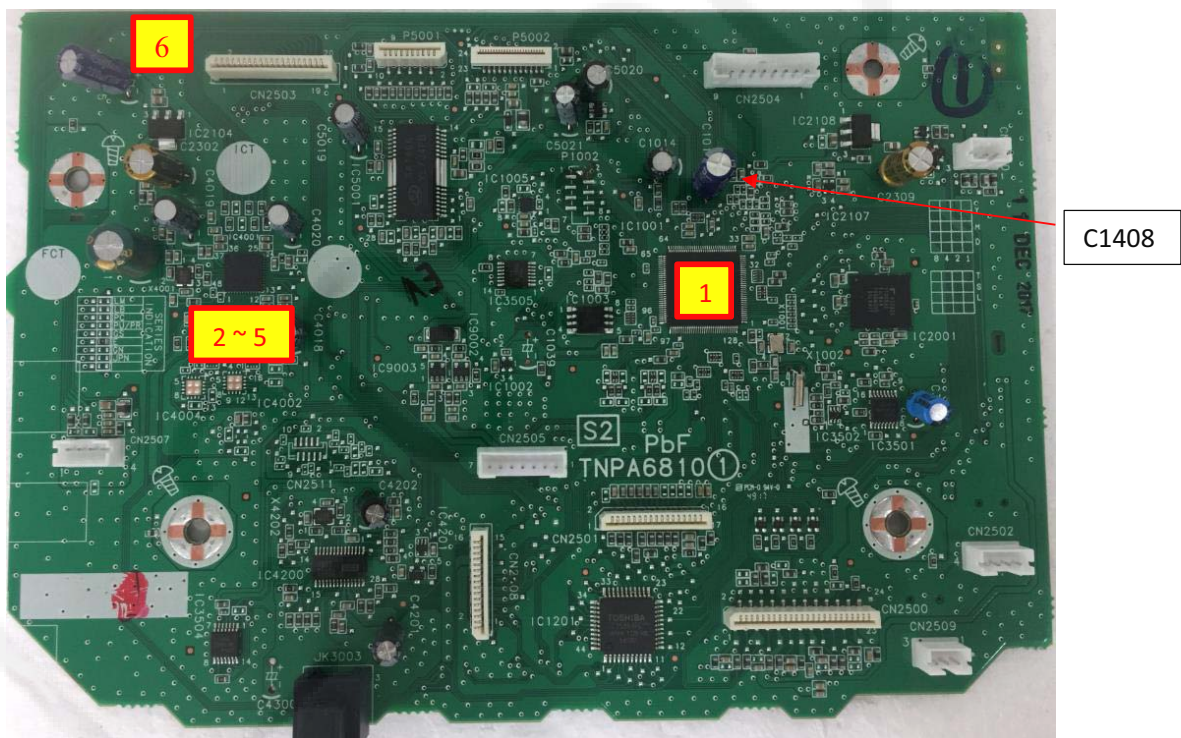
7.10. No Sound from MIC at any selector



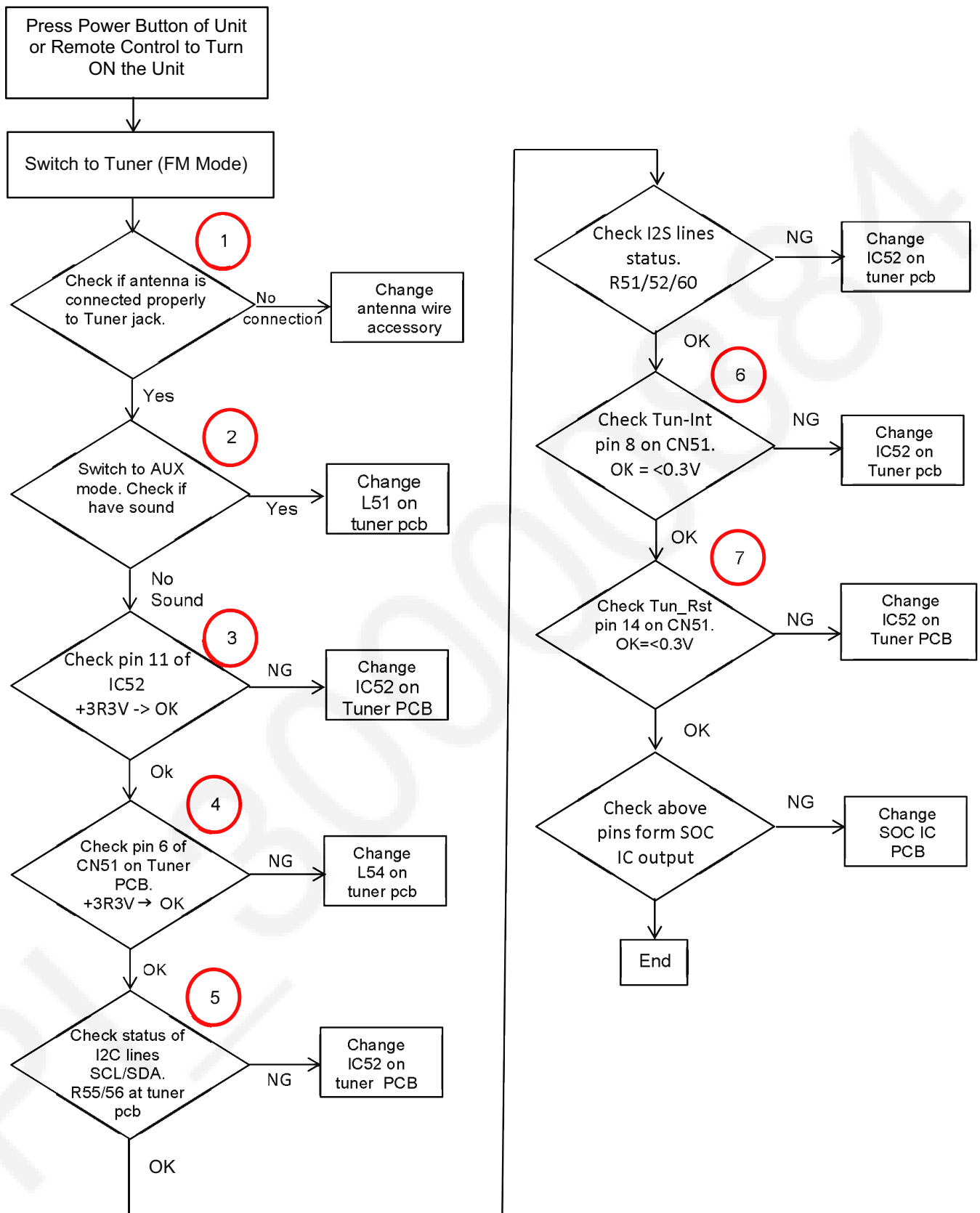
7.10.1. Check Point MIC P.C.B.



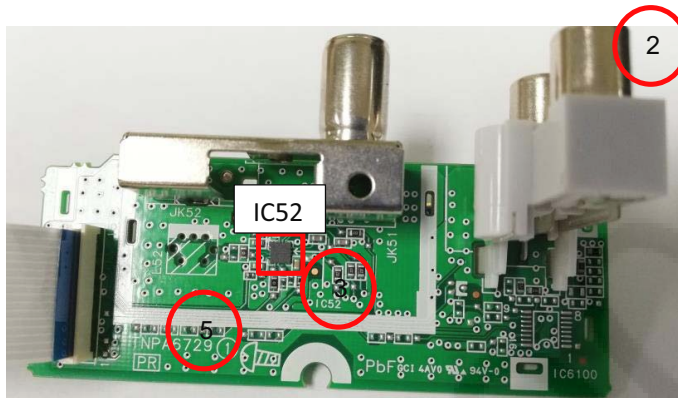
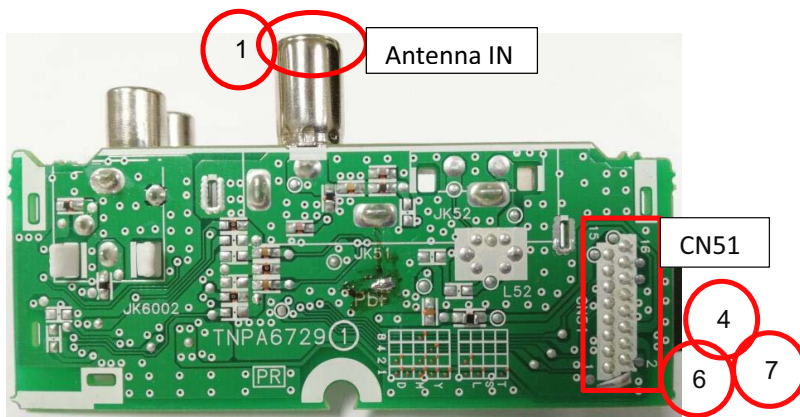
7.10.2. Check Point Main P.C.B.



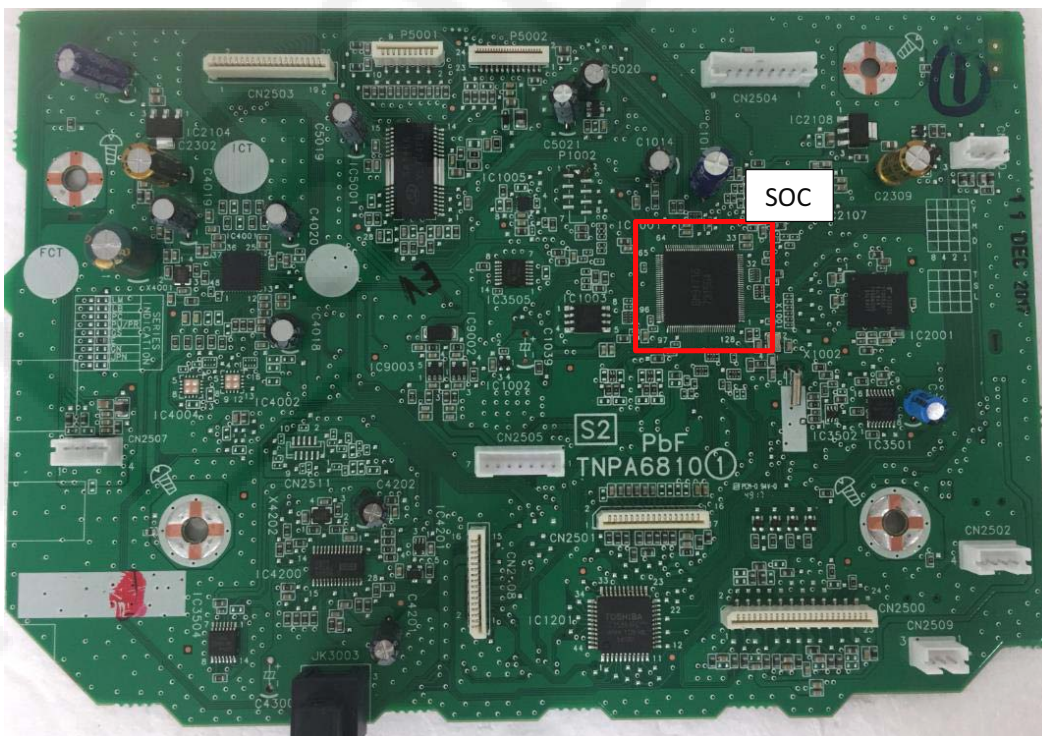
7.11. No Sound in Tuner Mode



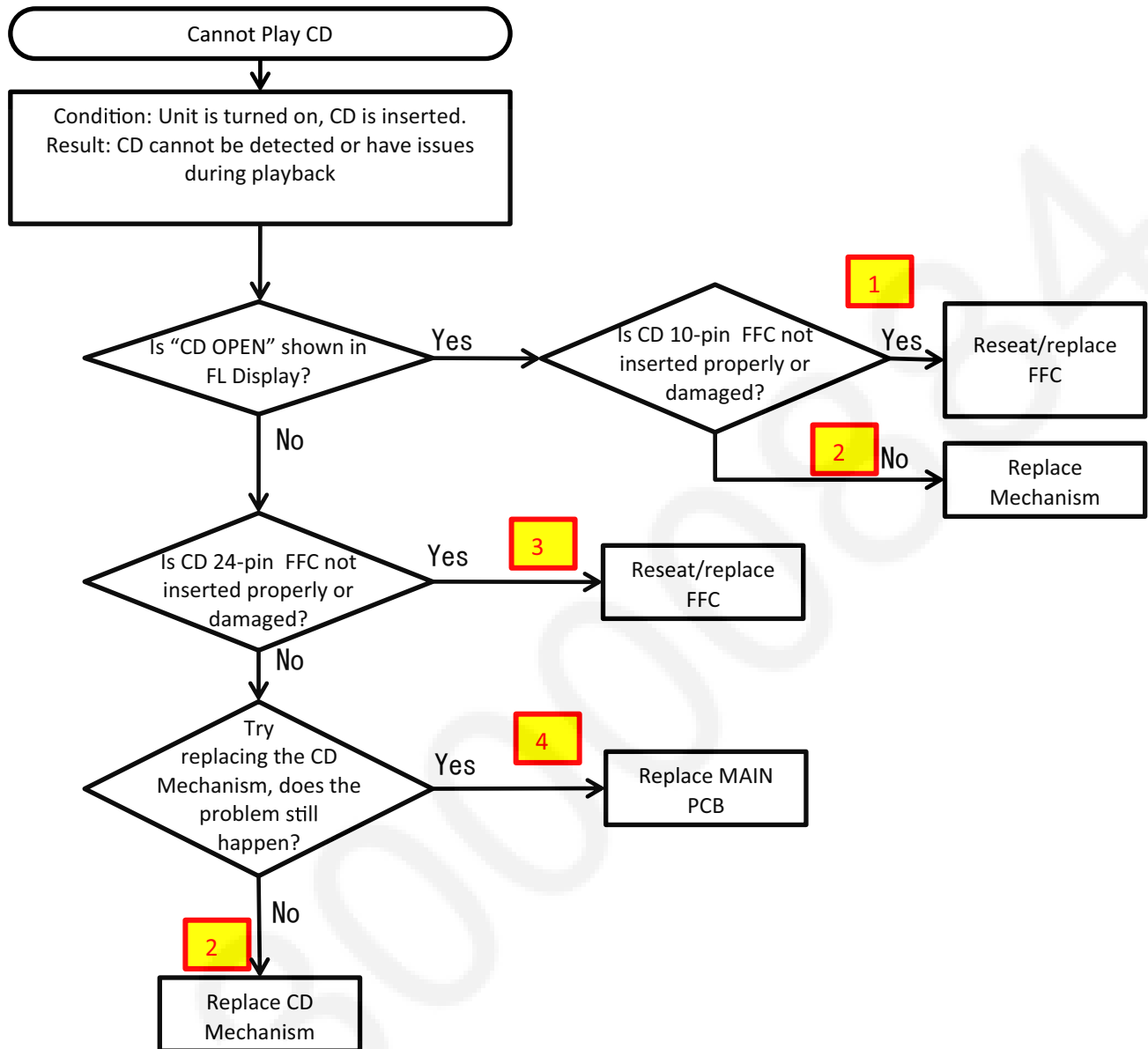
7.11.1. Check Point Tuner P.C.B.



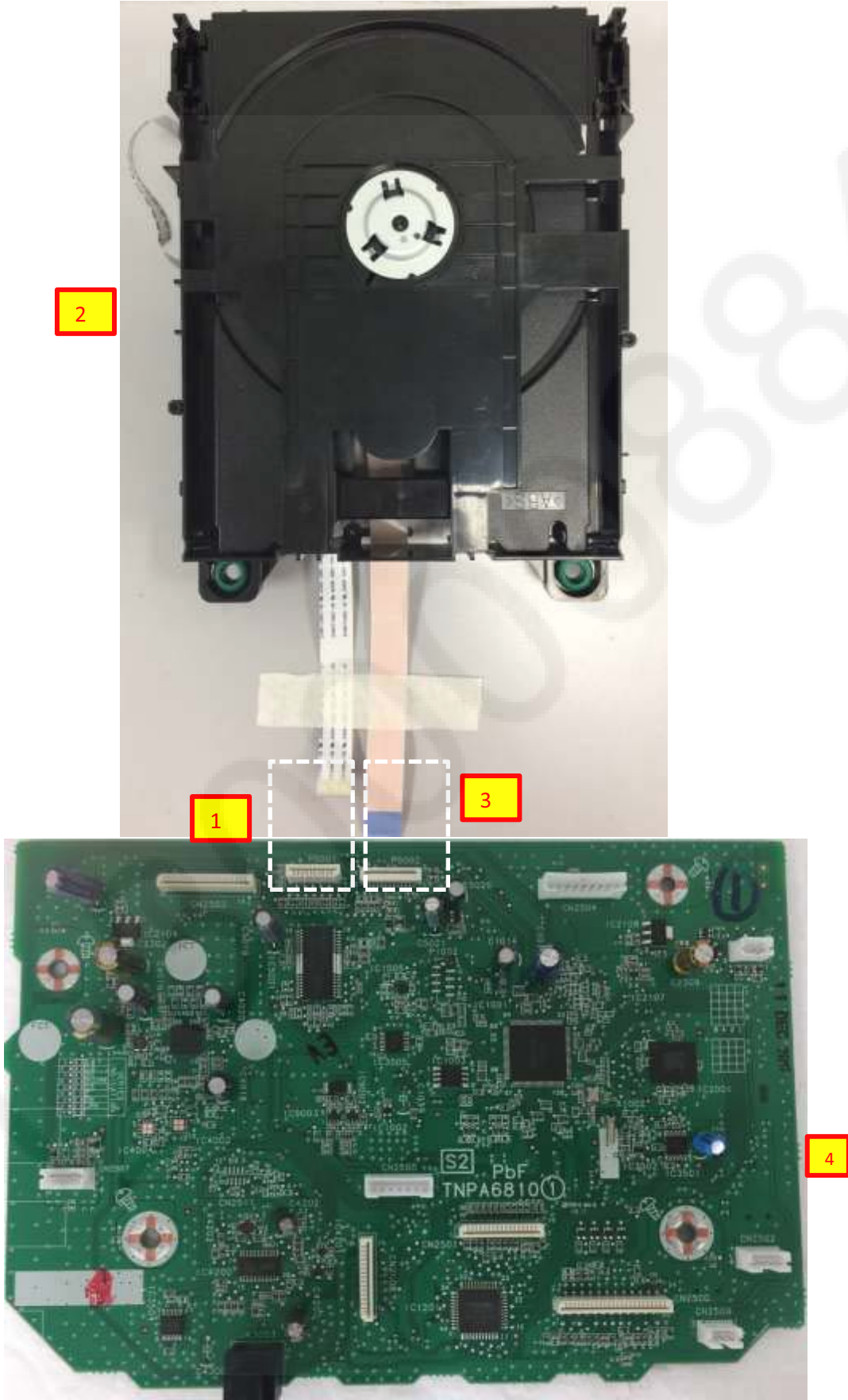
7.11.2. Check Point Main P.C.B.



7.12. CD cannot play at CD selector mode



7.12.1. Check Point Main P.C.B. & Mechanism



8 Disassembly and Assembly Instructions

- This section describes the disassembly and/or assembly procedures for all major printed circuit boards & main components for the unit. (You may refer to the section of “Main components and P.C.B Locations” as described in this service manual)
- Before carrying out the disassembly process, please ensure all the safety precautions & procedures are followed.
- During the disassembly and/or assembly process, please handle with care as there may be chassis components with sharp edges.
- Avoid touching heatsinks due to its high temperature after prolong use.
- Be sure to use proper service tools, equipments or jigs during repair.
- Select items from the following indexes when disassembly or replacement are required.
 - Disassembly of Rear Panel Unit
 - Disassembly of Tuner P.C.B.
 - Disassembly of Top Cab Unit Assembly
 - Disassembly of Touch Sensor P.C.B.
 - Disassembly of USB P.C.B.
 - Disassembly of Mic P.C.B.
 - Disassembly of Panel P.C.B. Assembly
 - Disassembly of Mecha Chassis Assembly
 - Disassembly of CD Mechanism Unit
 - Disassembly of CD Interface P.C.B.
 - Disassembly of IR Sensor P.C.B.
 - Disassembly of Left & Right Side Panel Assembly
 - Disassembly of Upper Front Panel Assembly
 - Disassembly of Main P.C.B.
 - Disassembly of DAMP P.C.B.
 - Disassembly of SMPS/AC Inlet P.C.B.
 - Disassembly of Top Speaker Block
 - Disassembly of Speaker Units
 - Disassembly of Center Illumination L & R P.C.B.

8.1. Type of Screws

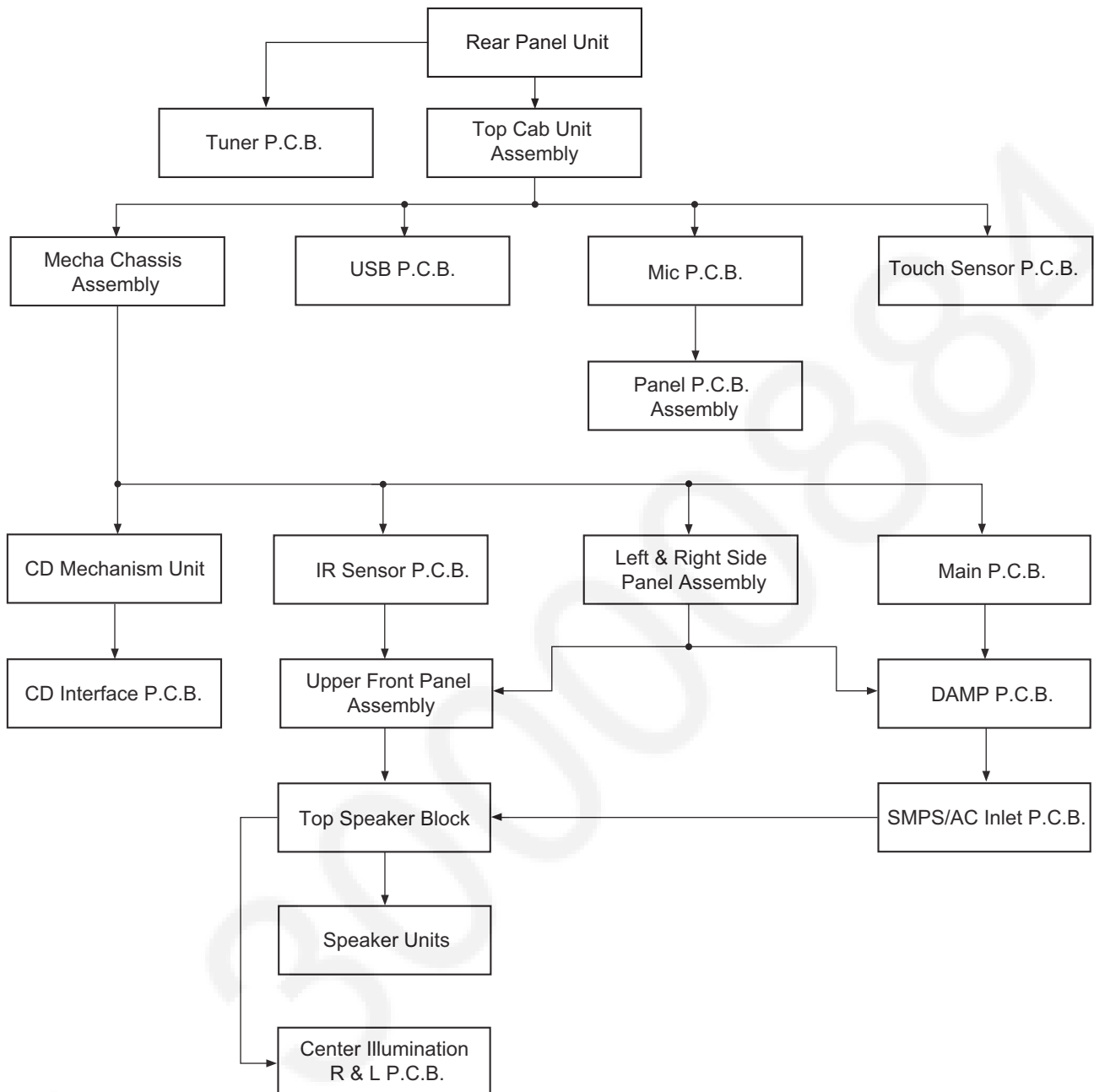
CAUTION NOTE:

Please use original screw and at correct locations.

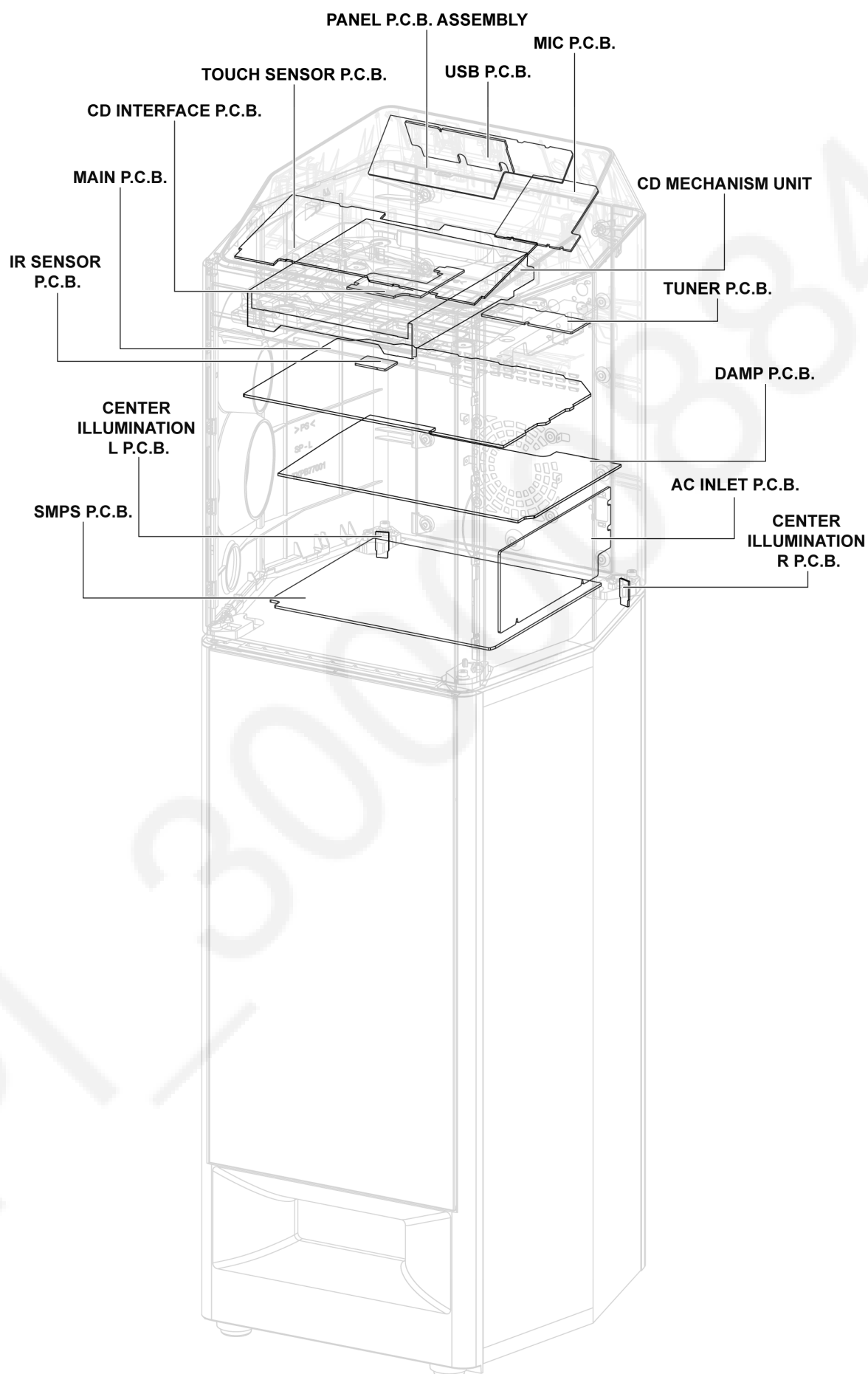
Below shown is part no. of different screw types used:

- | | |
|-----------------------|-----------------------|
| a :XTB3+10JFJK | f :XTN2+6GFJ |
| b :XTB3+8JFJK | g :XTB3+12JFJK |
| c :THEC327C | h :RHDX301002 |
| d :THEJ073C | i :XTB3+10JFJ |
| e :RHDX031008 | |

8.2. Disassembly Flow Chart

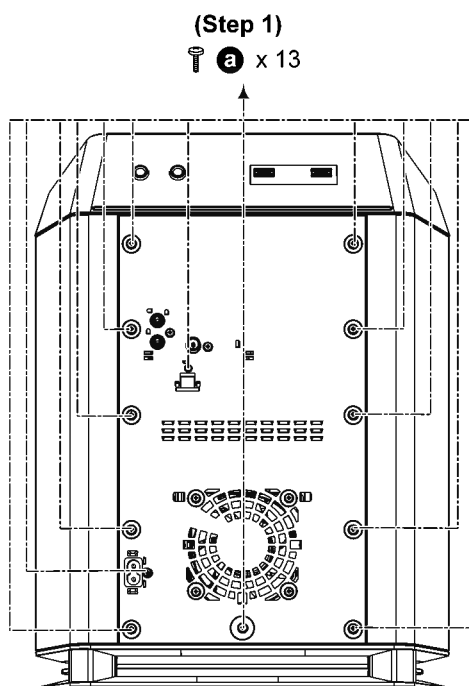


8.3. Main Components and P.C.B. Locations



8.4. Disassembly of Rear Panel Unit

Step 1 Remove 13 screws.

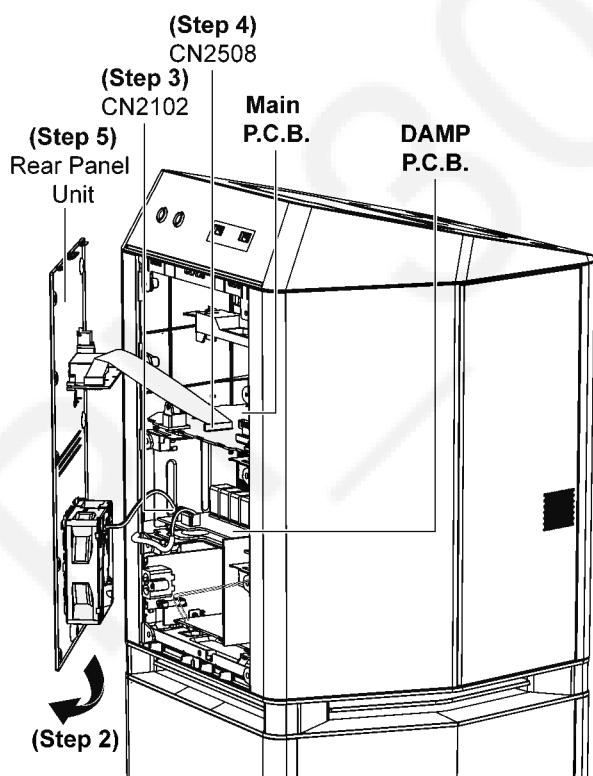


Step 2 Slightly remove Rear Panel Unit.

Step 3 Detach 2P Cable at connector (CN2102) on DAMP P.C.B..

Step 4 Detach 16P FFC at connector (CN2508) on Main P.C.B..

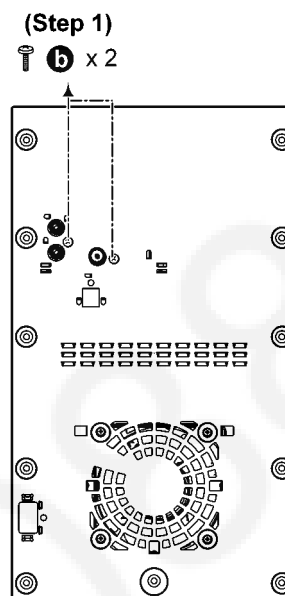
Step 5 Remove Rear Panel Unit.



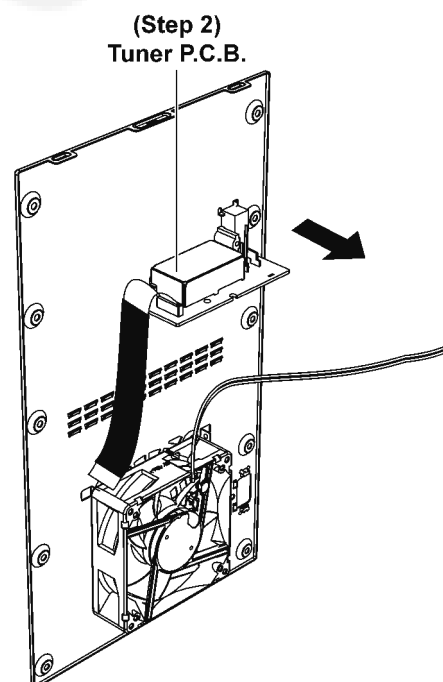
8.5. Disassembly of Tuner P.C.B.

• Refer to “Disassembly of Rear Panel Unit”.

Step 1 Remove 2 screws.



Step 2 Remove Tuner P.C.B..



8.6. Disassembly of Top Cab Unit Assembly

- Refer to “Disassembly of Rear Panel Unit”.

Step 1 Lift up Top Cab Unit Assembly.

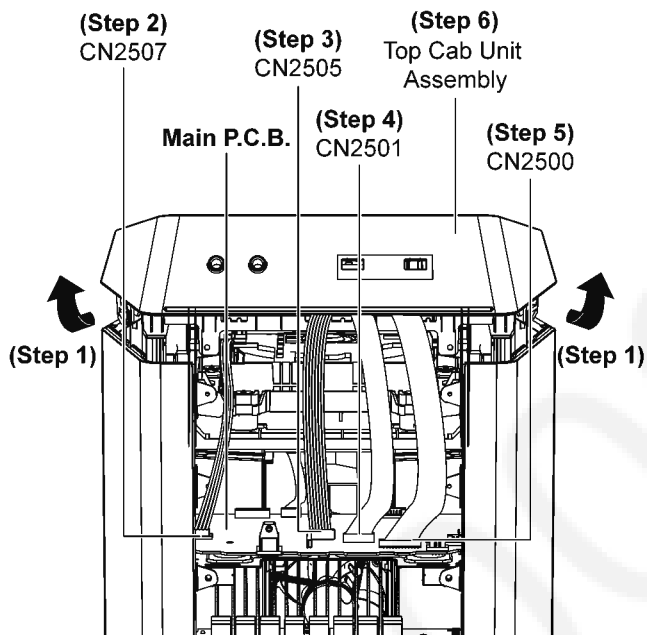
Step 2 Detach 4P Cable at connector (CN2507) on Main P.C.B..

Step 3 Detach 7P Cable at connector (CN2505) on Main P.C.B..

Step 4 Detach 17P FFC at connector (CN2501) on Main P.C.B..

Step 5 Detach 24P FFC at connector (CN2500) on Main P.C.B..

Step 6 Remove Top Cab Unit Assembly.



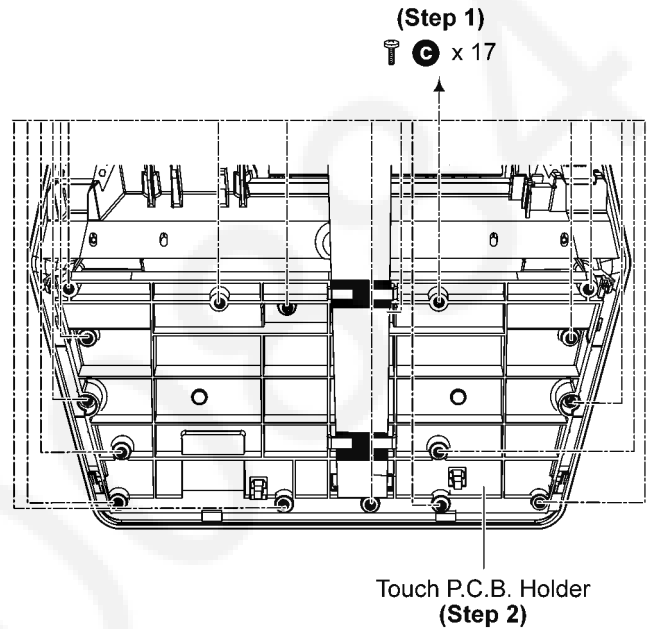
8.7. Disassembly of Touch Sensor P.C.B.

- Refer to “Disassembly of Rear Panel Unit”.

- Refer to “Disassembly of Top Cab Unit Assembly”.

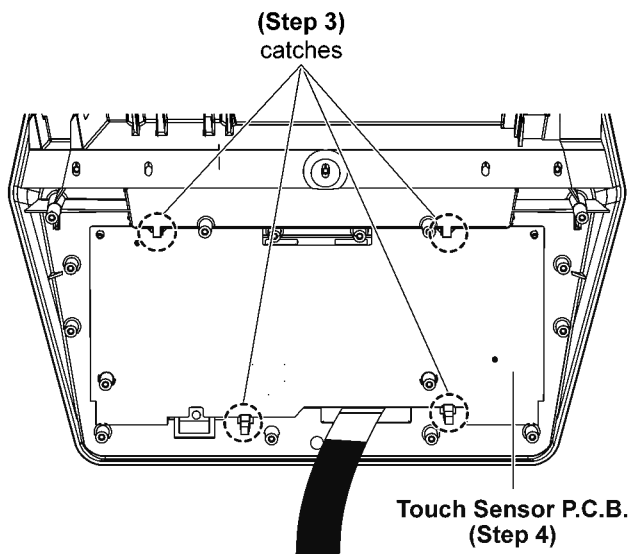
Step 1 Remove 17 screws.

Step 2 Remove Touch P.C.B. Holder.



Step 3 Release catches.

Step 4 Remove Touch Sensor P.C.B..



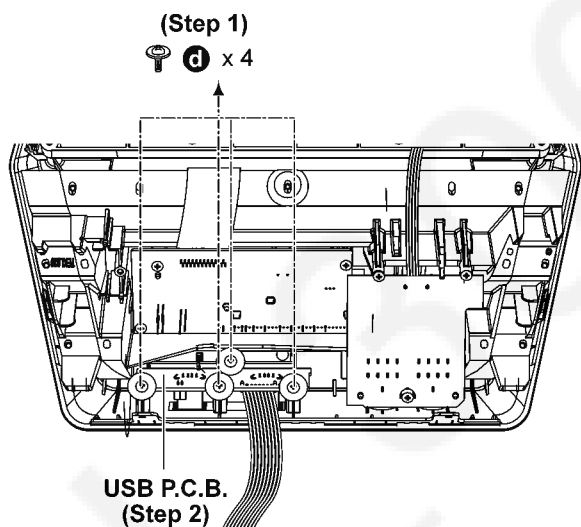
8.8. Disassembly of USB P.C.B.

• Refer to "Disassembly of Rear Panel Unit".

• Refer to "Disassembly of Top Cab Unit Assembly".

Step 1 Remove 4 screws.

Step 2 Remove USB P.C.B..



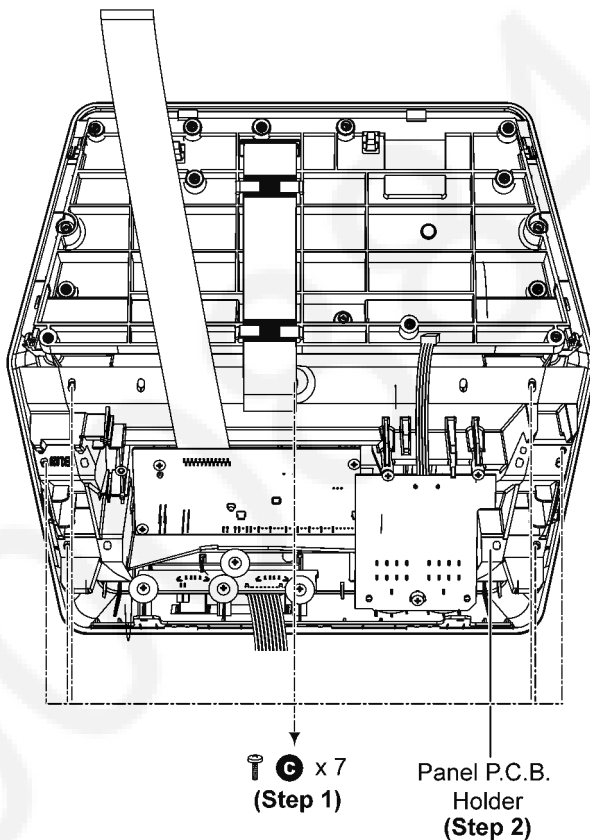
8.9. Disassembly of Mic P.C.B.

• Refer to "Disassembly of Rear Panel Unit".

• Refer to "Disassembly of Top Cab Unit Assembly".

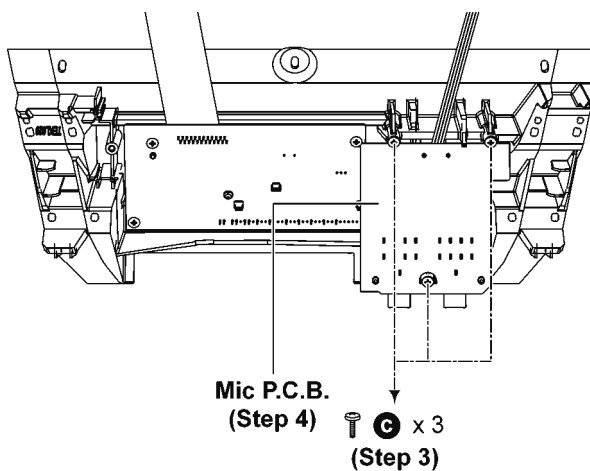
Step 1 Remove 7 screws.

Step 2 Remove Panel P.C.B. Holder.



Step 3 Remove 3 screws.

Step 4 Remove Mic P.C.B..

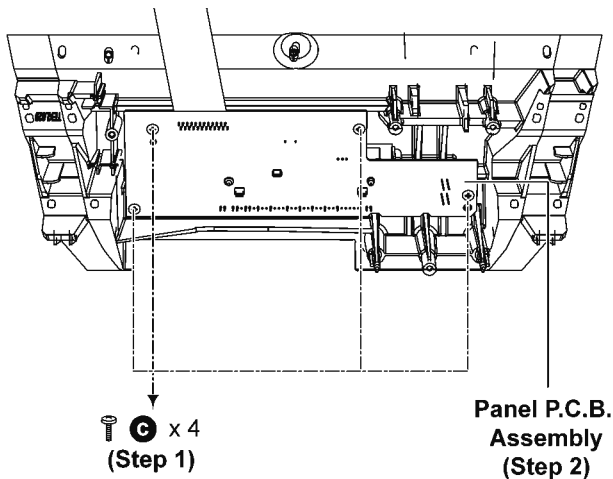


8.10. Disassembly of Panel P.C.B. Assembly

- Refer to “Disassembly of Rear Panel Unit”.
- Refer to “Disassembly of Top Cab Unit Assembly”.
- Refer to “Disassembly of Mic P.C.B.”.

Step 1 Remove 4 screws.

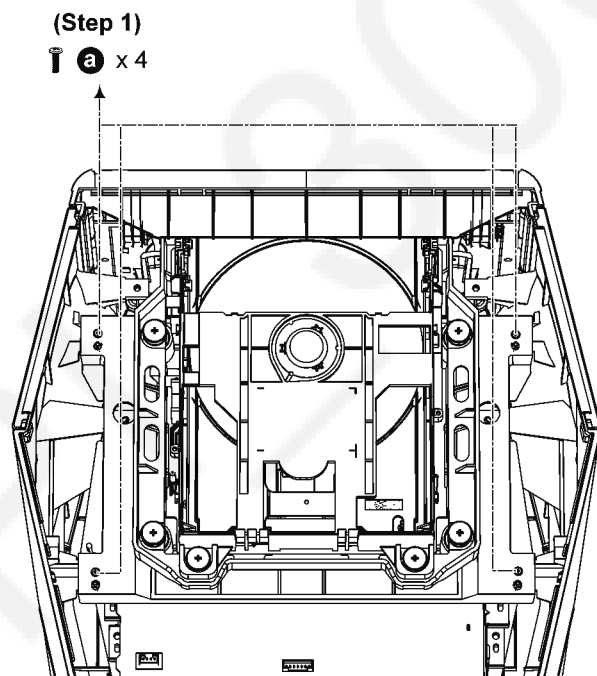
Step 2 Remove Panel P.C.B. Assembly.



8.11. Disassembly of Mecha Chassis Assembly

- Refer to “Disassembly of Rear Panel Unit”.
- Refer to “Disassembly of Top Cab Unit Assembly”.

Step 1 Remove 4 screws.

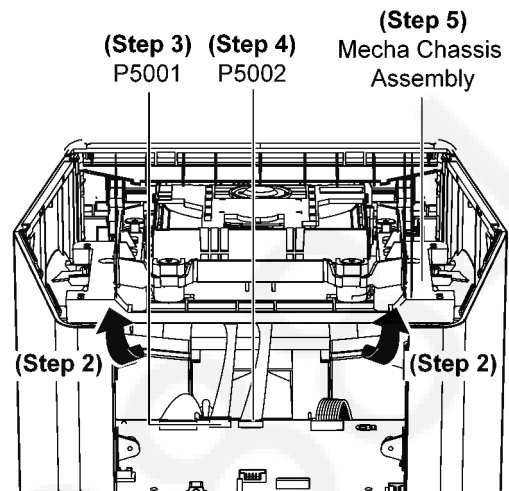


Step 2 Slightly lift up the Mecha Chassis Assembly.

Step 3 Detach 10P FFC at connector (P5001) on Main P.C.B..

Step 4 Detach 24P FFC at connector (P5002) on Main P.C.B..

Step 5 Remove Mecha Chassis Assembly.

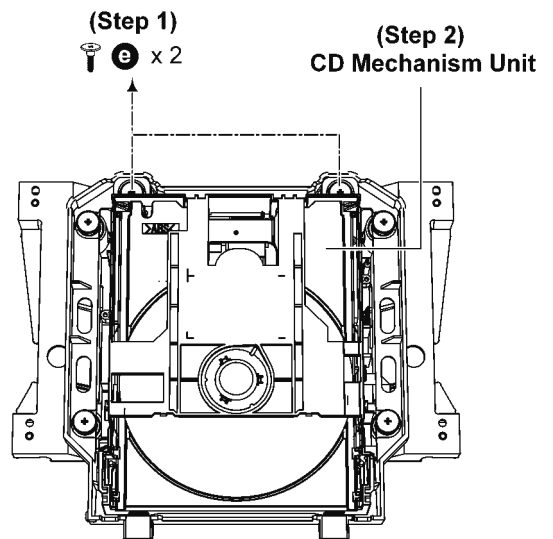


8.12. Disassembly of CD Mechanism Unit

- Refer to “Disassembly of Rear Panel Unit”.
- Refer to “Disassembly of Top Cab Unit Assembly”.
- Refer to “Disassembly of Mecha Chassis Assembly”.

Step 1 Remove 2 screws.

Step 3 Remove CD Mechanism Unit.



8.13. Disassembly of CD Interface P.C.B.

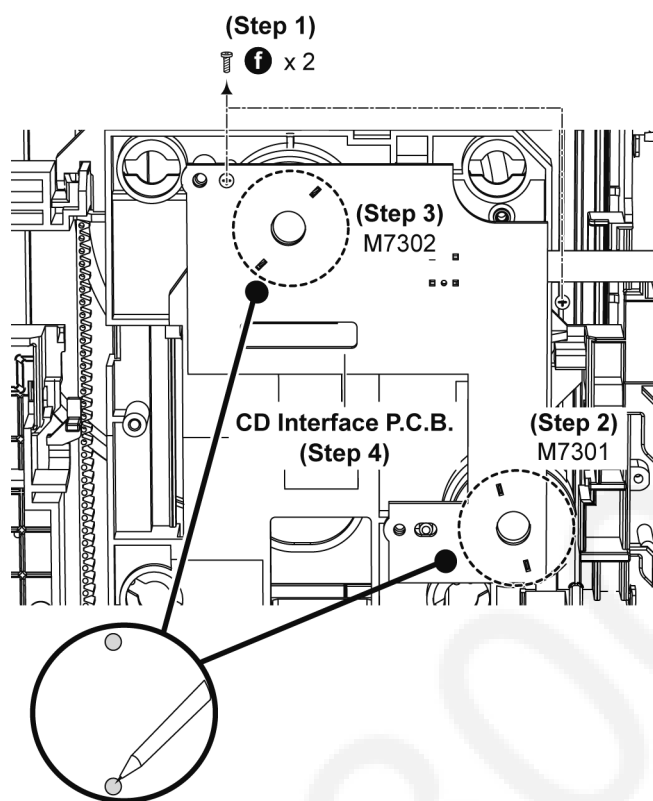
- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".
- Refer to "Disassembly of CD Mechanism Unit".

Step 1 Remove 2 screws.

Step 2 Desolder pins of motor (M7301).

Step 3 Desolder pins of motor (M7302).

Step 4 Remove CD Interface P.C.B..



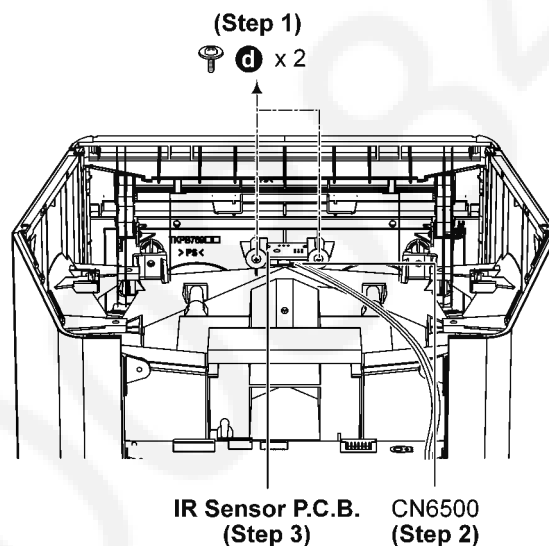
8.14. Disassembly of IR Sensor P.C.B.

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".

Step 1 Remove 2 screws.

Step 2 Detach 3P Cable at connector (CN6500) on IR Sensor P.C.B..

Step 3 Remove IR Sensor P.C.B..

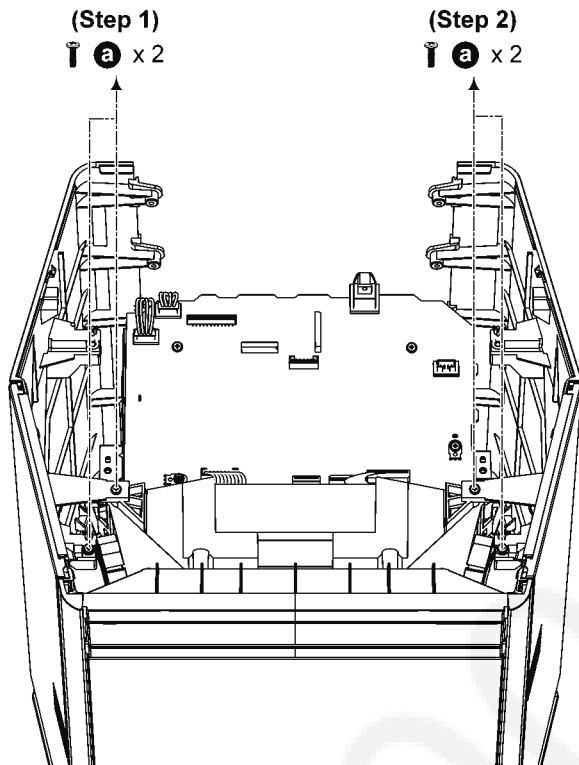


8.15. Disassembly of Left & Right Side Panel Assembly

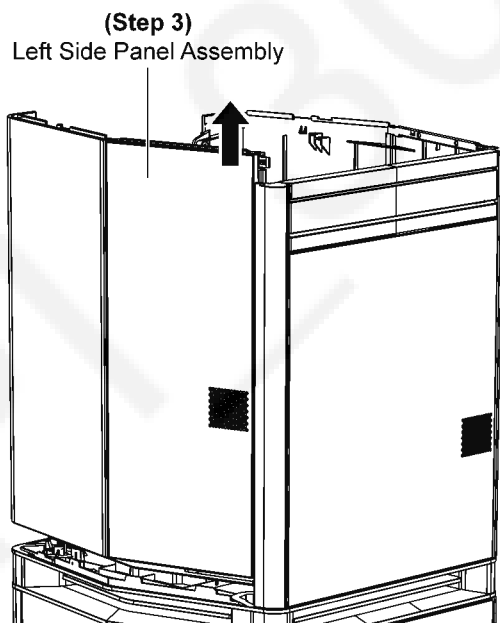
- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Frame Assembly".

Step 1 Remove 2 screws at left side.

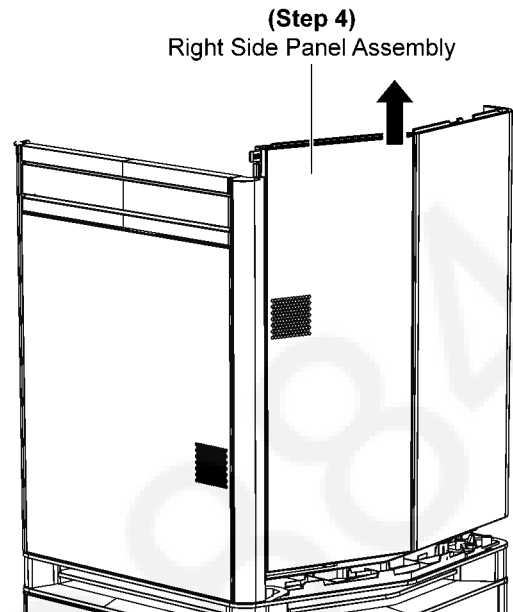
Step 2 Remove 2 screws at right side.



Step 3 Push upward to remove Left Side Panel Assembly.



Step 4 Push upward to remove Right Side Panel Assembly.



8.16. Disassembly of Upper Front Panel Assembly

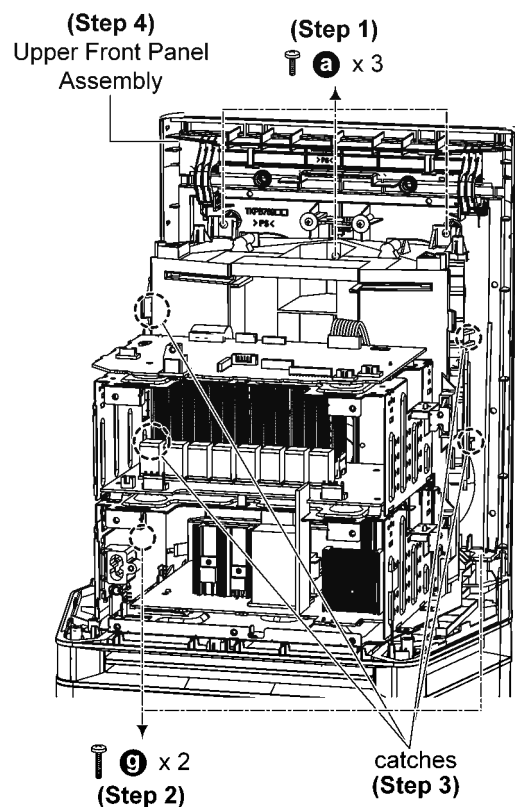
- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Frame Assembly".
- Refer to "Disassembly of IR Sensor P.C.B.".
- Refer to "Disassembly of Left & Right Side Panel Assembly".

Step 1 Remove 3 screws.

Step 2 Remove 2 screws.

Step 3 Release catches.

Step 4 Remove Upper Front Panel Assembly.



8.17. Disassembly of Main P.C.B.

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".

Step 1 Detach 20P FFC at connector (CN2503) on Main P.C.B..

Step 2 Detach 9P Cable at connector (CN2504) on Main P.C.B..

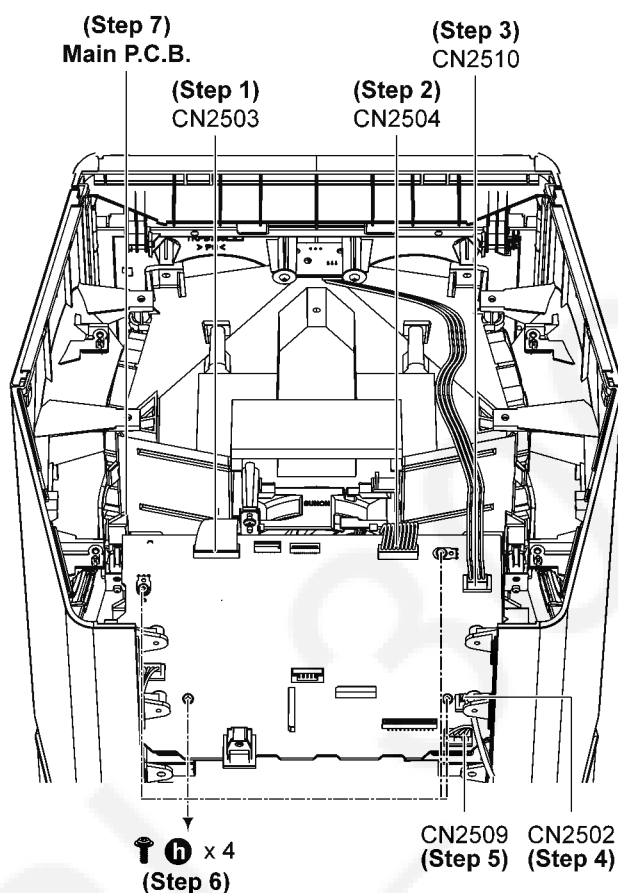
Step 3 Detach 3P Cable at connector (CN2510) on Main P.C.B..

Step 4 Detach 4P Cable at connector (CN2502) on Main P.C.B..

Step 5 Detach 3P Cable at connector (CN2509) on Main P.C.B..

Step 6 Remove 4 screws.

Step 7 Remove Main P.C.B..

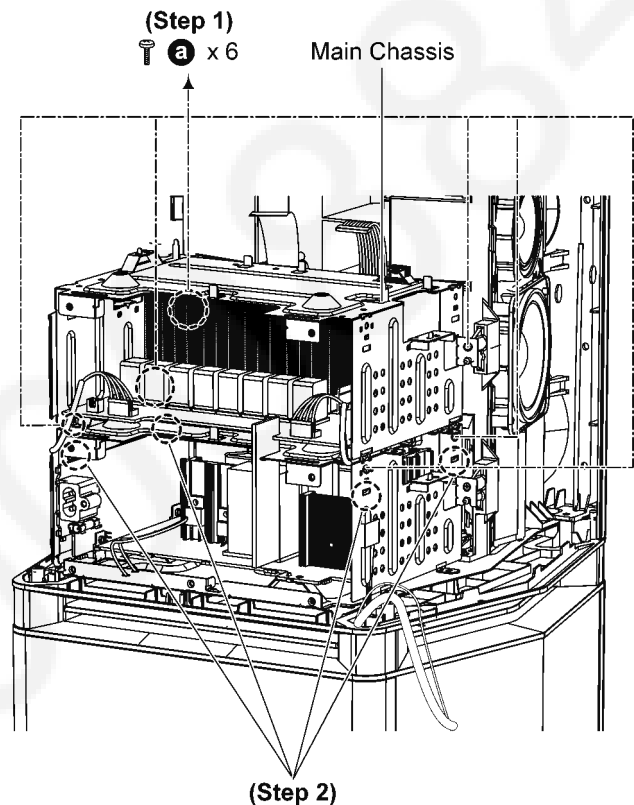


8.18. Disassembly of DAMP P.C.B.

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".
- Refer to "Disassembly of IR Sensor P.C.B.".
- Refer to "Disassembly of Left & Right Side Panel Assembly".
- Refer to "Disassembly of Main P.C.B.".

Step 1 Remove 6 screws.

Step 2 Press to release and remove the Main Chassis.



Step 3 Detach 2P Cable at connector (CN2101) on DAMP P.C.B..

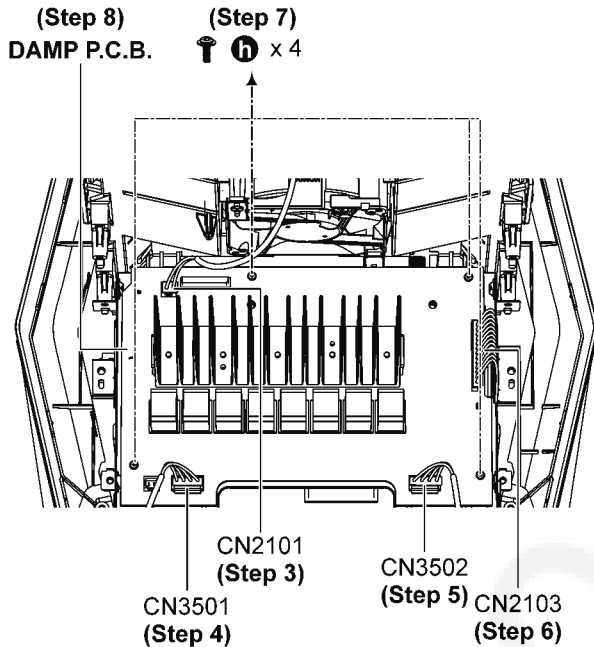
Step 4 Detach 4P Cable at connector (CN3501) on DAMP P.C.B..

Step 5 Detach 4P Cable at connector (CN3502) on DAMP P.C.B..

Step 6 Detach 13P Cable at connector (CN2103) on DAMP P.C.B..

Step 7 Remove 4 screws.

Step 8 Remove DAMP P.C.B..

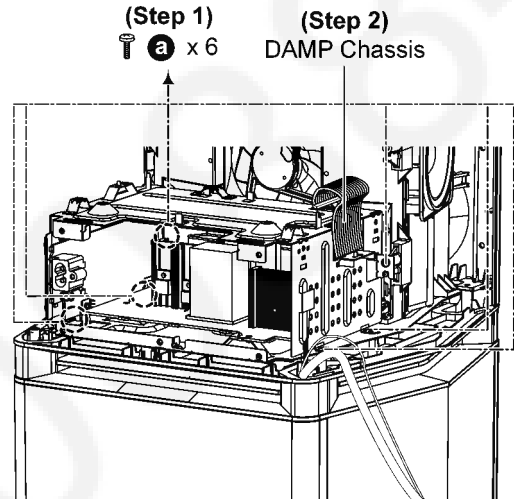


8.19. Disassembly of SMPS/AC Inlet P.C.B.

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".
- Refer to "Disassembly of Left & Right Side Panel Assembly".
- Refer to "Disassembly of Main P.C.B.".
- Refer to "Disassembly of DAMP P.C.B.".

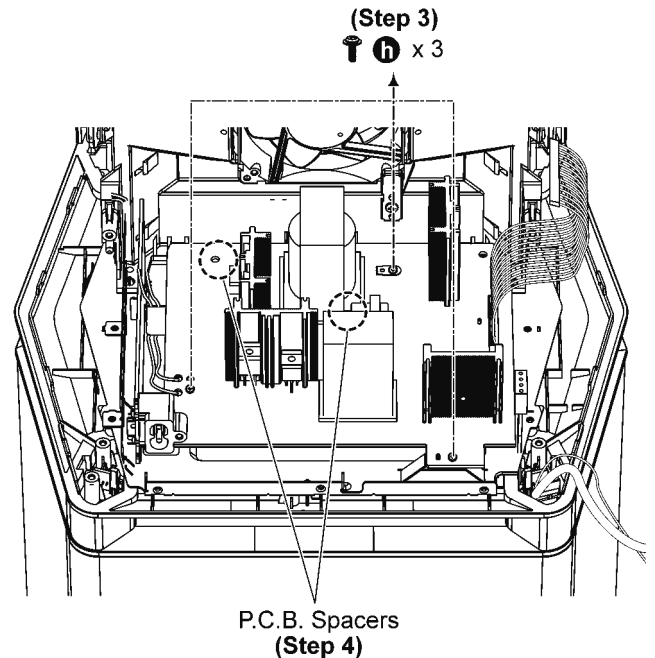
Step 1 Remove 6 screws.

Step 2 Remove DAMP Chassis.



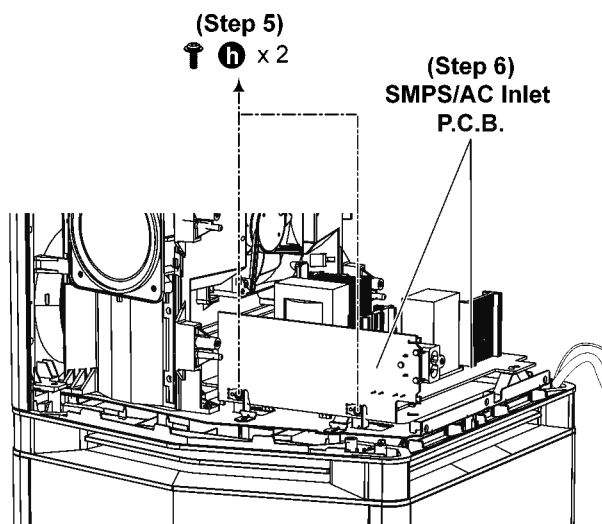
Step 3 Remove 3 screws.

Step 4 Release P.C.B. Spacers.



Step 5 Remove 2 screws on AC Inlet P.C.B..

Step 6 Remove SMPS/AC Inlet P.C.B..

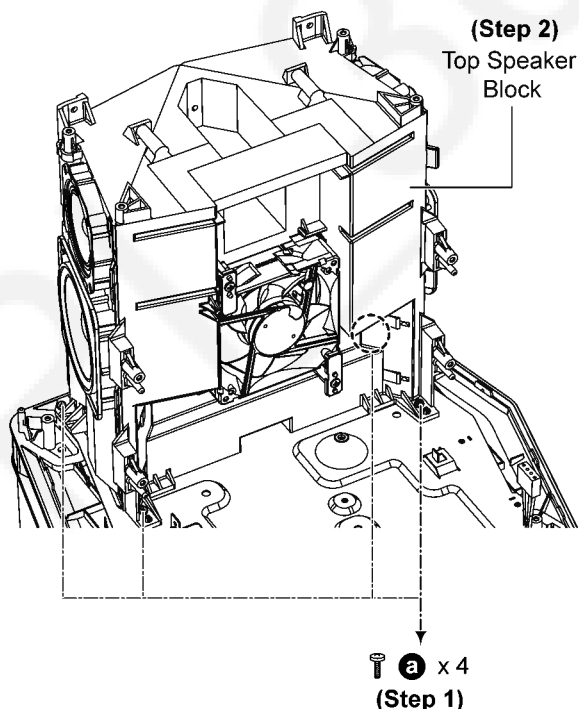


8.20. Disassembly of Top Speaker Block

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".
- Refer to "Disassembly of IR Sensor P.C.B.".
- Refer to "Disassembly of Left & Right Side Panel Assembly".
- Refer to "Disassembly of Upper Front Panel Assembly".
- Refer to "Disassembly of Main P.C.B.".
- Refer to "Disassembly of DAMP P.C.B.".
- Refer to "Disassembly of SMPS/AC Inlet P.C.B.".

Step 1 Remove 4 screws.

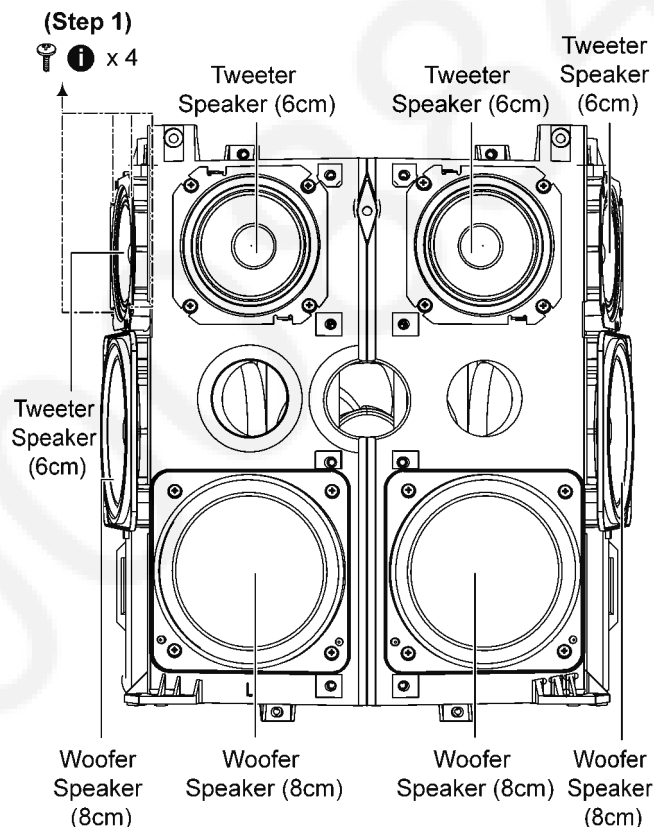
Step 2 Remove the Top Speaker Block.



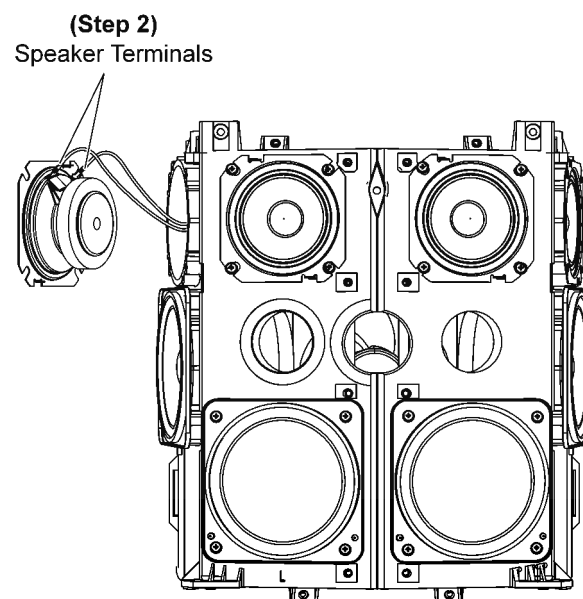
8.21. Disassembly of Speaker Units

- Refer to "Disassembly of Rear Panel Unit".
- Refer to "Disassembly of Top Cab Unit Assembly".
- Refer to "Disassembly of Mecha Chassis Assembly".
- Refer to "Disassembly of IR Sensor P.C.B.".
- Refer to "Disassembly of Left & Right Side Panel Assembly".
- Refer to "Disassembly of Upper Front Panel Assembly".

Step 1 For Tweeter Speakers, remove 4 screws for each. For Woofer Speakers, remove 4 screws for each.



Step 2 Detach 2 Speaker Terminals from each speaker unit.

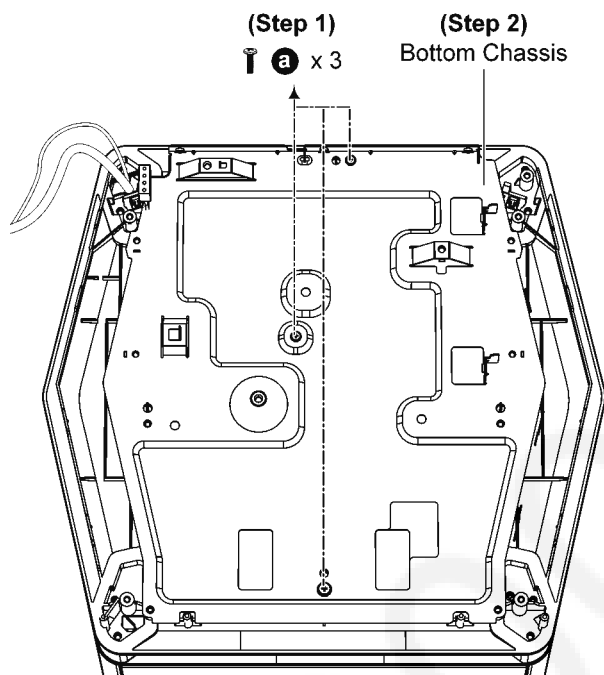


8.22. Disassembly of Center Illumination L & R P.C.B.

- Refer to “Disassembly of Rear Panel Unit”.
- Refer to “Disassembly of Top Cab Unit Assembly”.
- Refer to “Disassembly of Mecha Chassis Assembly”.
- Refer to “Disassembly of IR Sensor P.C.B.”.
- Refer to “Disassembly of Left & Right Side Panel Assembly”.
- Refer to “Disassembly of Upper Front Panel Assembly”.
- Refer to “Disassembly of Top Speaker Block”.

Step 1 Remove 3 screws.

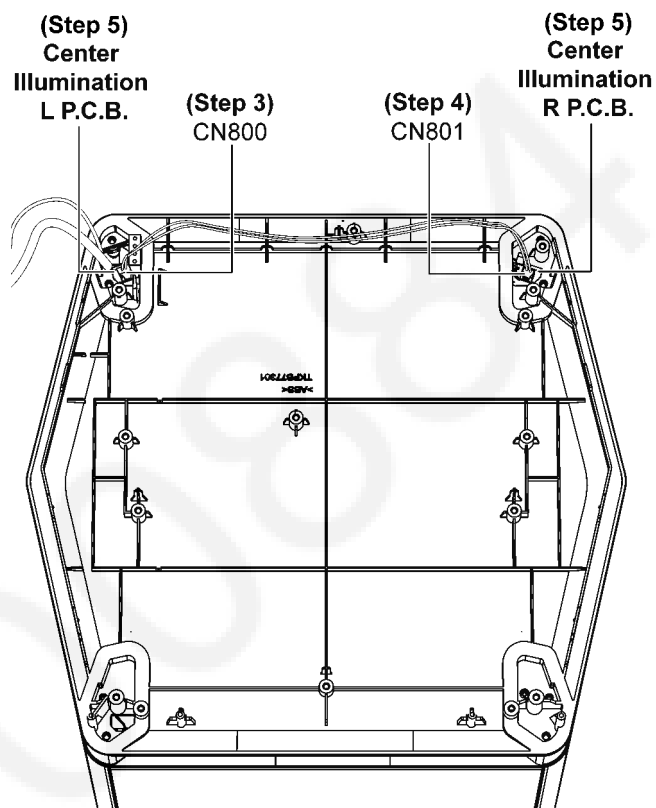
Step 2 Remove Bottom Chassis.



Step 3 Detach 2P Cable at connector (CN800) on Center Illumination L P.C.B..

Step 4 Detach 2P Cable at connector (CN801) on Center Illumination R P.C.B..

Step 5 Remove Center Illumination L & R P.C.B..



9 Service Position

Note: For description of the disassembly procedures, refer Section 8 of the Service Manual.

9.1. Checking of SMPS/AC Inlet, DAMP, Main, Panel, IR Sensor, Touch Sensor, USB, Tuner and Mic P.C.B.

Step 1 Place all P.C.B. on the insulated material as shown on next page.

Step 2 Attach 2P Cable at connector (CN2101) on DAMP P.C.B..

Step 3 Attach 2P Cable at connector (CN2102) on DAMP P.C.B..

Step 4 Attach 4P Cable at connector (CN3501) on DAMP P.C.B..

Step 5 Attach 13P Cable at connector (CN2103) on DAMP P.C.B..

Step 6 Attach 20P FFC at connector (CN2503) on Main P.C.B..

Step 7 Attach 9P Cable at connector (CN2504) on Main P.C.B..

Step 8 Attach 4P Cable at connector (CN2507) on Main P.C.B..

Step 9 Attach 16P FFC at connector (CN2508) on Main P.C.B..

Step 10 Attach 7P Cable at connector (CN2505) on Main P.C.B..

Step 11 Attach 17P FFC at connector (CN2501) on Main P.C.B..

Step 12 Attach 24P FFC at connector (CN2500) on Main P.C.B..

Step 13 Attach 4P Cable at connector (CN2502) on Main P.C.B..

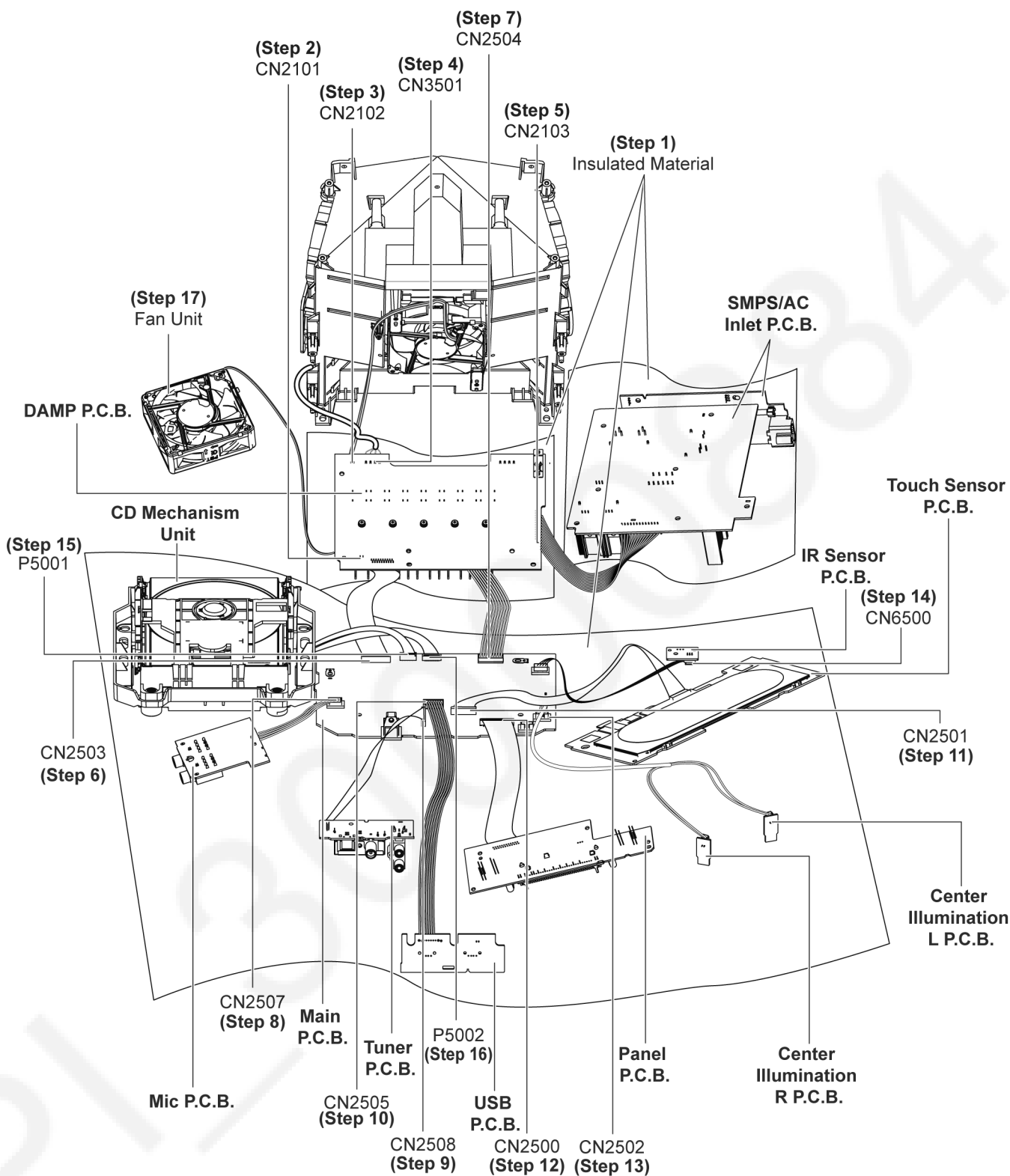
Step 14 Attach 3P Cable at connector (CN6500) on IR Sensor P.C.B..

Step 15 Attach 10P FFC at connector (P5001) on Main P.C.B..

Step 16 Attach 24P FFC at connector (P5002) on Main P.C.B..

Step 17 Remove Fan Unit from Rear Panel Unit.

Step 18 SMPS/AC Inlet, DAMP, Main, Panel, IR Sensor, Touch Sensor, USB, Tuner and Mic P.C.B. can be checked as diagram shown.

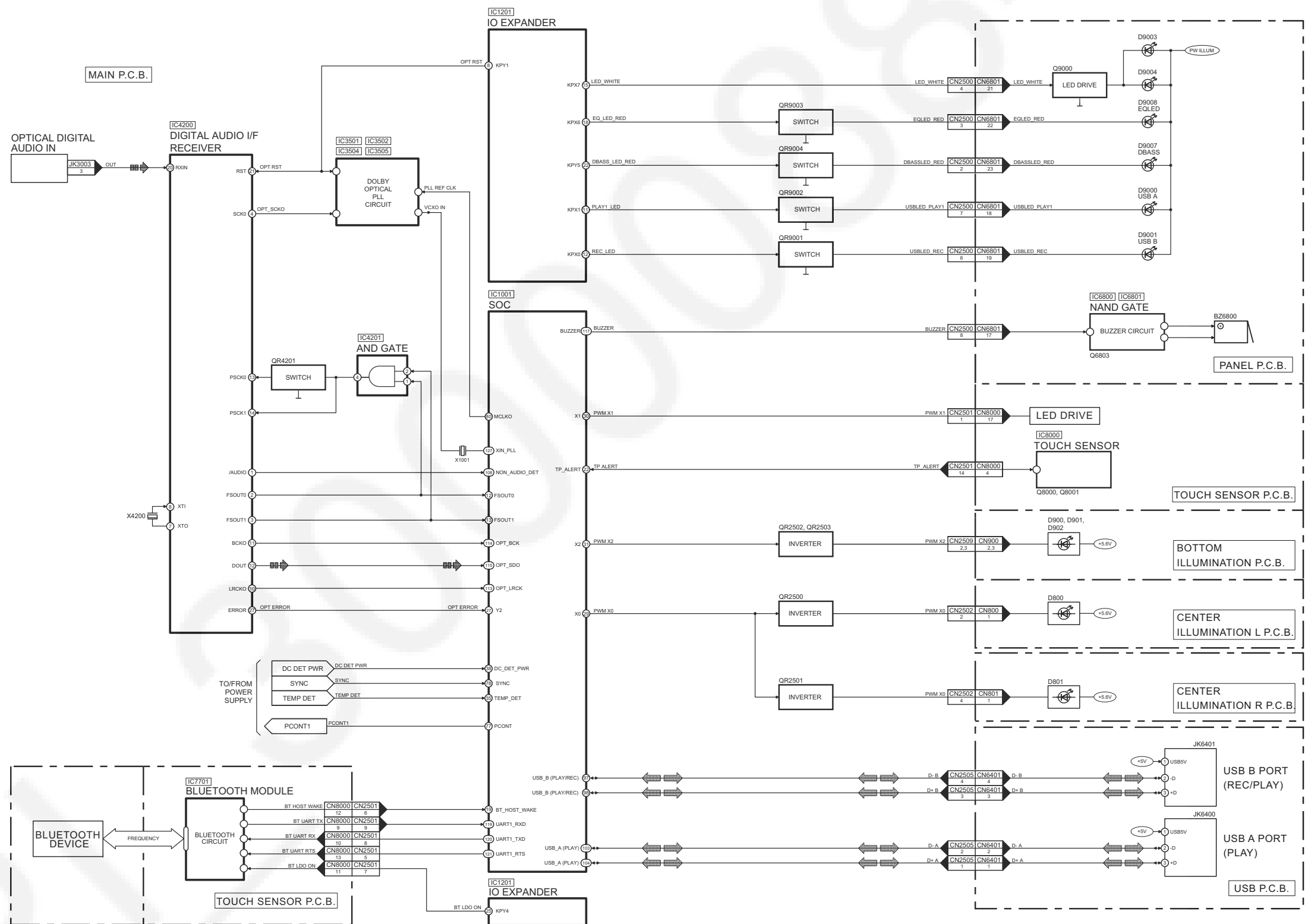


PL/30000884

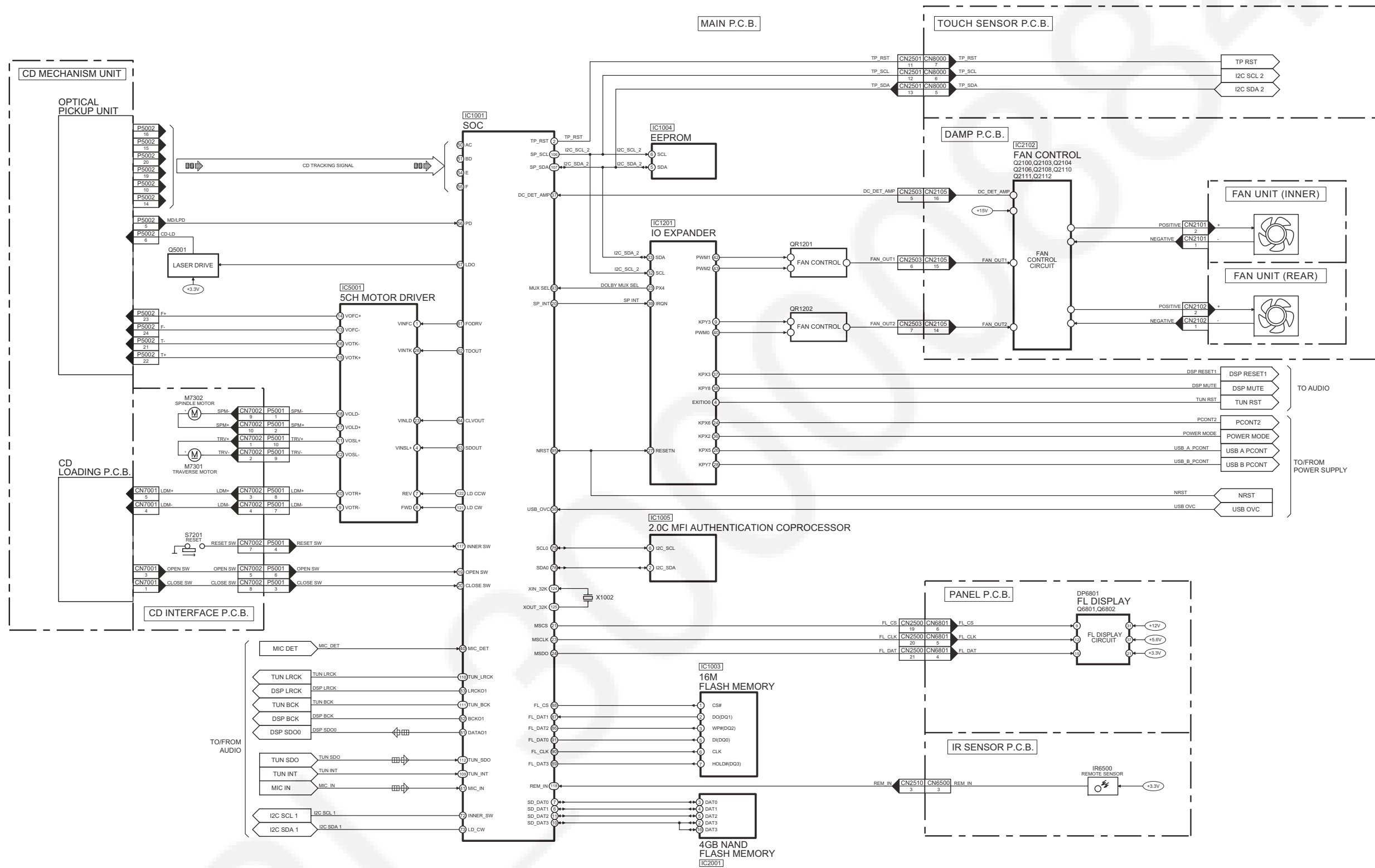
10 Block Diagram

10.1. System Control

 : OPTICAL DIGITAL SIGNAL LINE
  : USB SIGNAL LINE

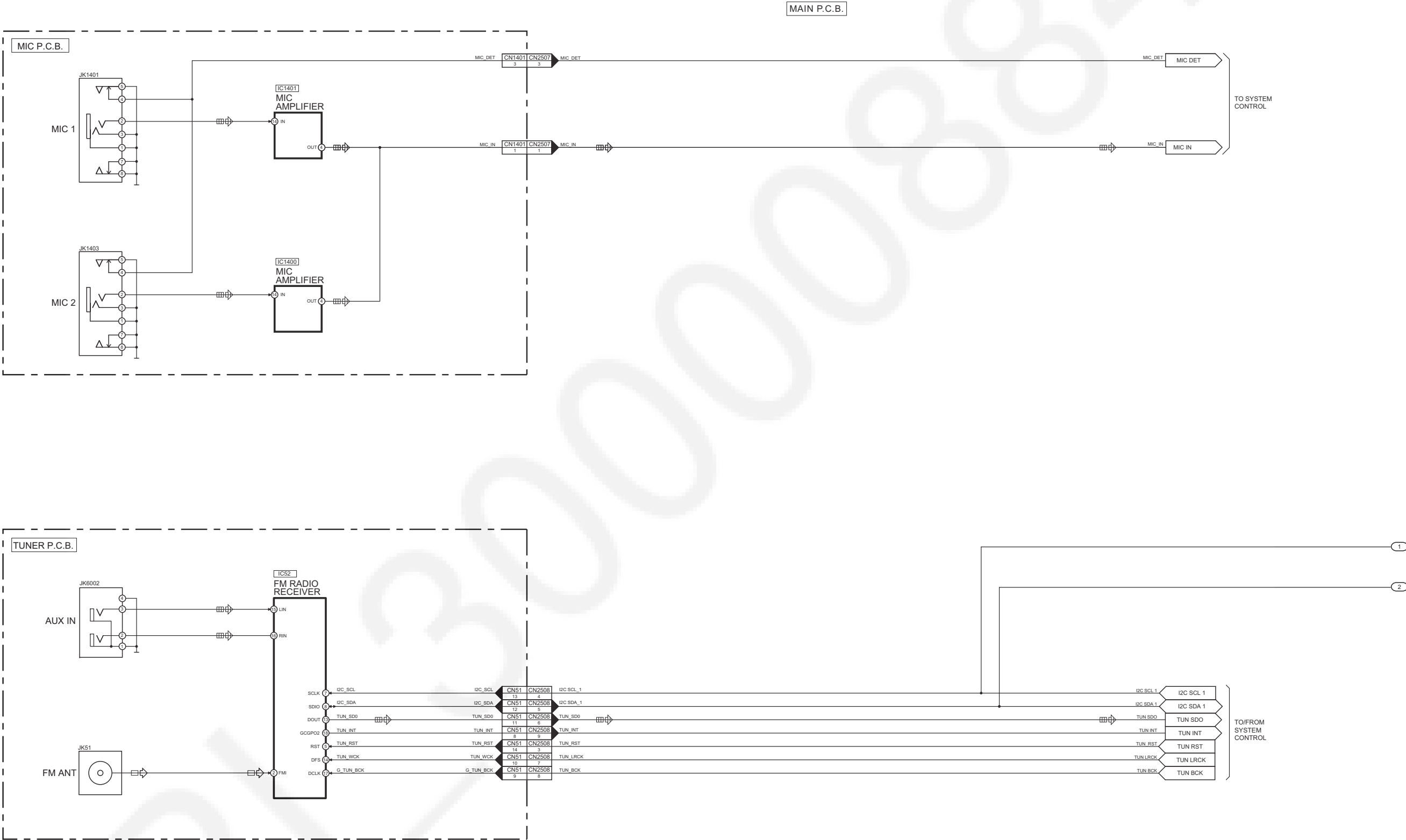


 : TUNER/ AUX/ MIC INPUT SIGNAL LINE
  : CD SIGNAL LINE

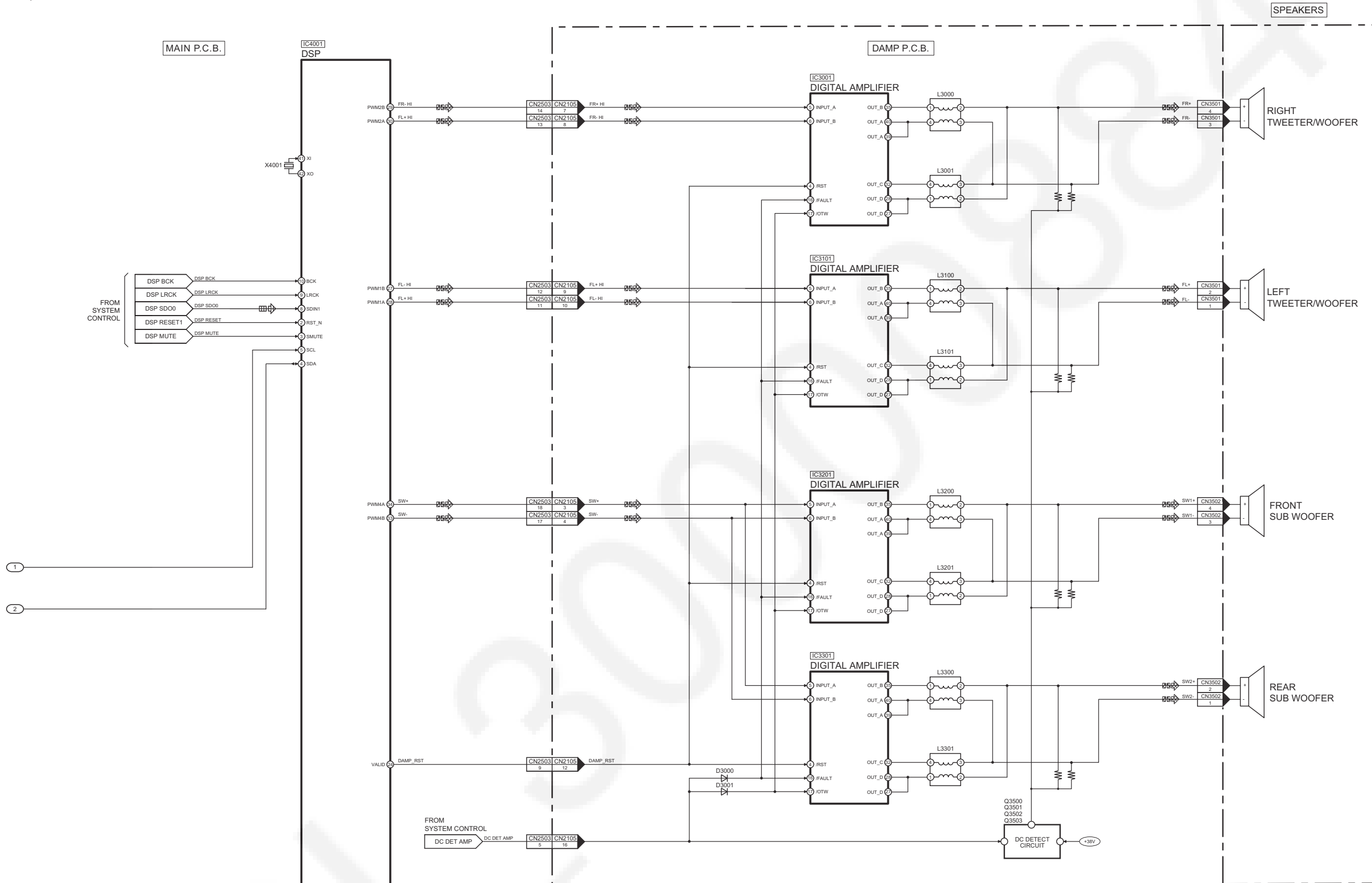


10.2. Audio

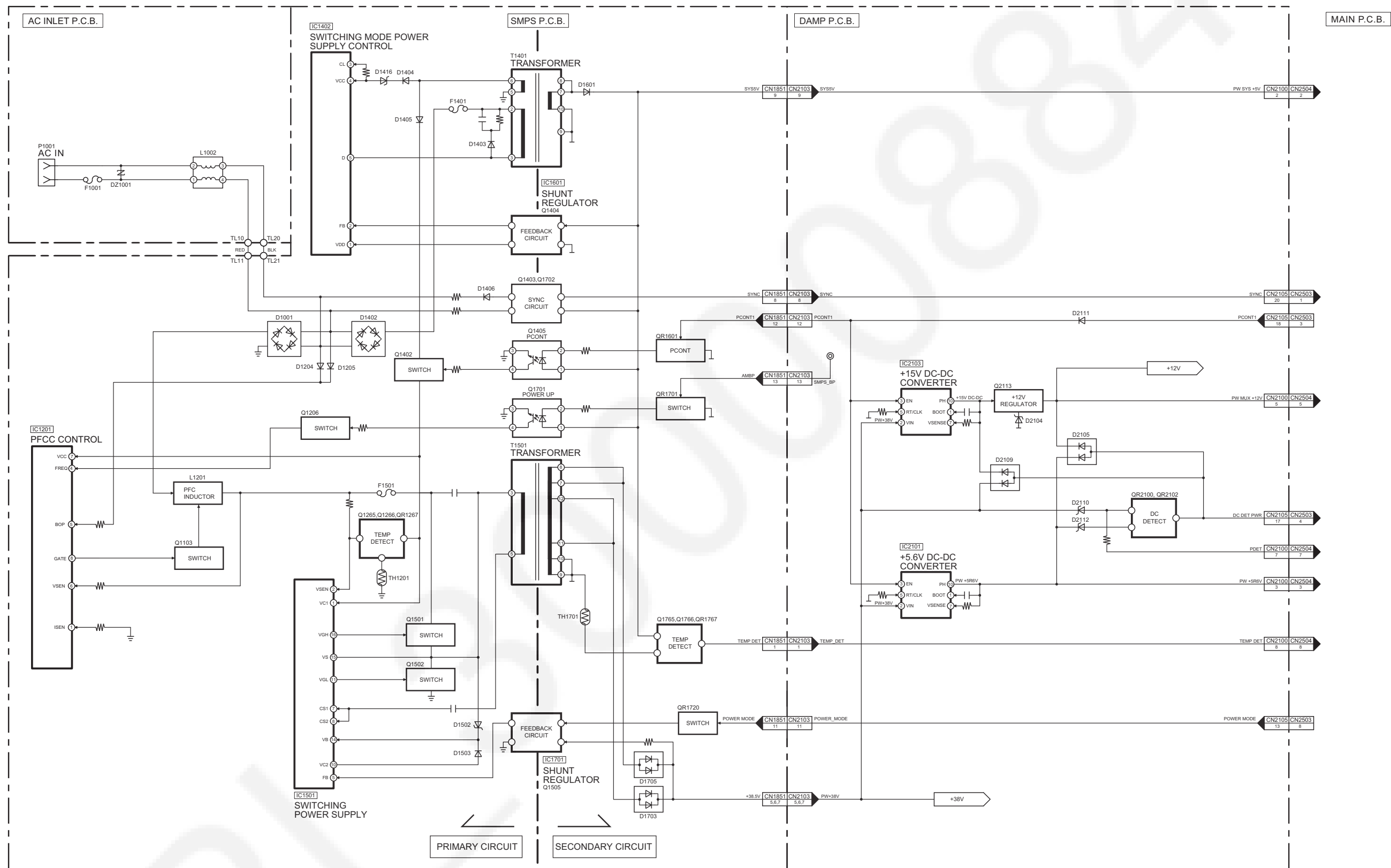
▢▢▢▢ : TUNER/AUX/MIC INPUT SIGNAL LINE ▢▢▢▢ : FM SIGNAL LINE

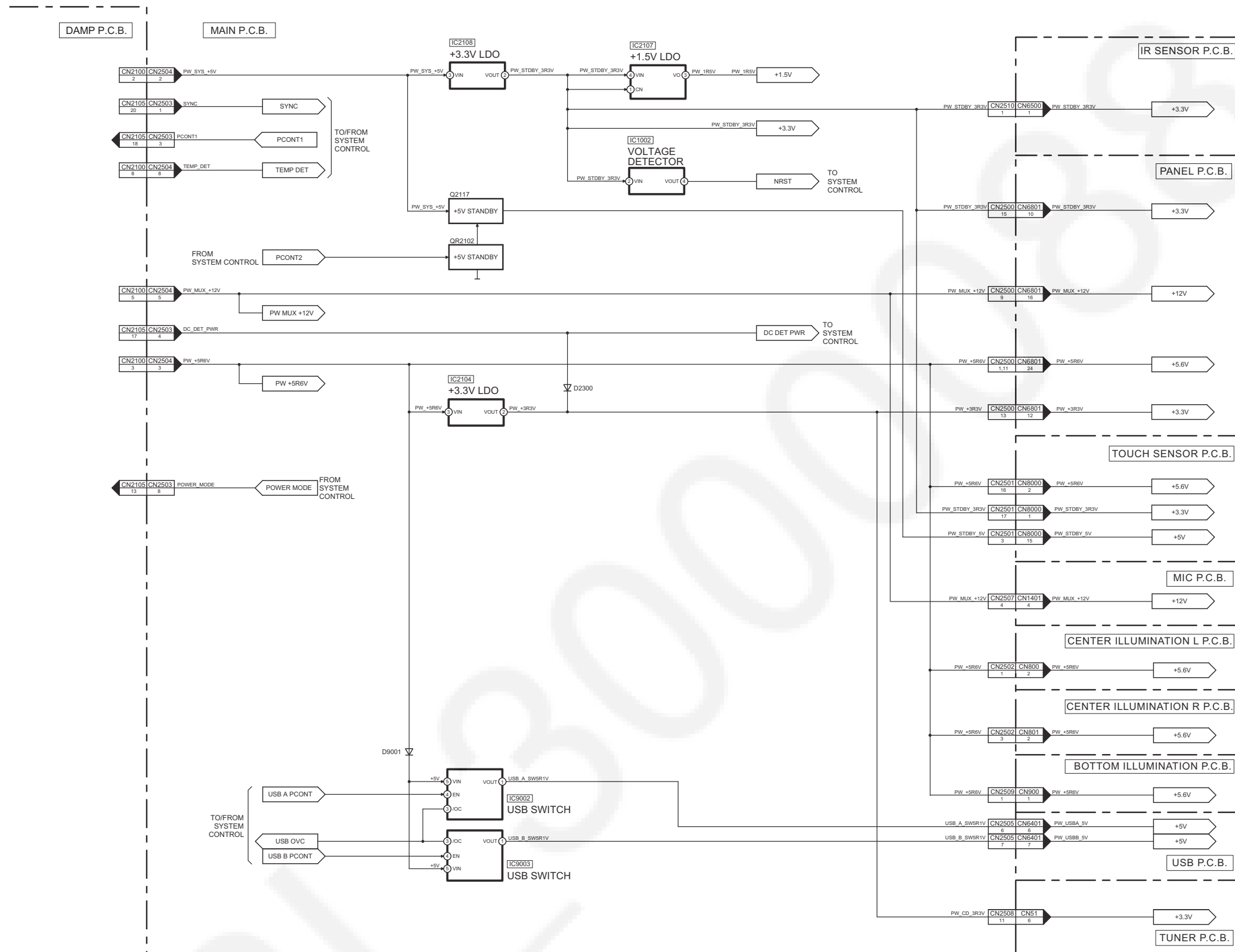


 : TUNER/AUX/MIC INPUT SIGNAL LINE
  : OUTPUT SIGNAL LINE



10.3. Power Supply





Connection Diagram

Connection Diagram

The diagram illustrates the interconnections between the following components:

- SMPS P.C.B.** (Switching Mode Power Supply)
- DAMP P.C.B.** (Damping)
- CD INTERFACE P.C.B.** (CD Interface)
- TOUCH SENSOR P.C.B.** (Touch Sensor)
- MIC P.C.B.** (Microphone)
- USB P.C.B.** (Universal Serial Bus)
- TUNER P.C.B.** (Tuner)
- CENTER ILLUMINATION L P.C.B.** (Center Illumination Left)
- CENTER ILLUMINATION R P.C.B.** (Center Illumination Right)
- PANEL P.C.B.** (Panel)
- MAIN P.C.B.** (Main)

Key connections and components shown include:

- TO SUBWOOFER** (CN3502, 4P)
- TO SPEAKERS** (CN3501, 4P)
- TO FAN UNIT** (CN2102, 2P)
- TO OPTICAL PICKUP UNIT (CD MECHANISM UNIT)** (CN2503, 20P; P5001, 10P; P5002, 24P; CN2504, 9P)
- TO CD LOADING P.C.B. (CD MECHANISM UNIT)** (CN7001, 5P)
- TO BOTTOM ILLUMINATION** (CN2509, 3P)

Other components and connectors labeled include:

- CN1851** (13P)
- CN2103** (13P)
- CN2100** (9P)
- CN2105** (20P)
- CN2101** (2P)
- CN7002** (10P)
- CN6500** (3P)
- CN1401** (4P)
- CN2507** (4P)
- CN2508** (16P)
- CN2505** (7P)
- CN2501** (17P)
- CN2500** (24P)
- CN2502** (4P)
- CN2510** (3P)
- CN8000** (17P)
- CN800** (2P)
- CN801** (2P)
- CN6801** (24P)
- CN51** (16P)
- TL11**
- TL21**

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12 Schematic Diagram

12.1. Schematic Diagram Notes

(All schematic diagrams may be modified at any time with the development of new technology)

- Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high quality sound (capacitors), low-noise (resistors), etc are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- In case of AC rated voltage Capacitors, the part no. and values will be indicated in the Schematic Diagram.

AC rated voltage capacitors:

C1001, C1006, C1007, C1008, C1409, C1518

- **Resistor**

Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

- **Capacitor**

Unit of capacitance is μ F, unless otherwise noted. F=Farads, pF=pico-Farad.

- **Coil**

Unit of inductance is H, unless otherwise noted.

- Voltage and signal line

— : +B signal line

 : Mic Input signal line

 : USB signal line

CAUTION:

FOR CONTINUED PROTECTION
AGAINST FIRE HAZARD,
REPLACE ONLY WITH SAME
TYPE F1001 T10AH 250V FUSE
TYPE F1401 T500mA 250V FUSE
TYPE F1501 T5A 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



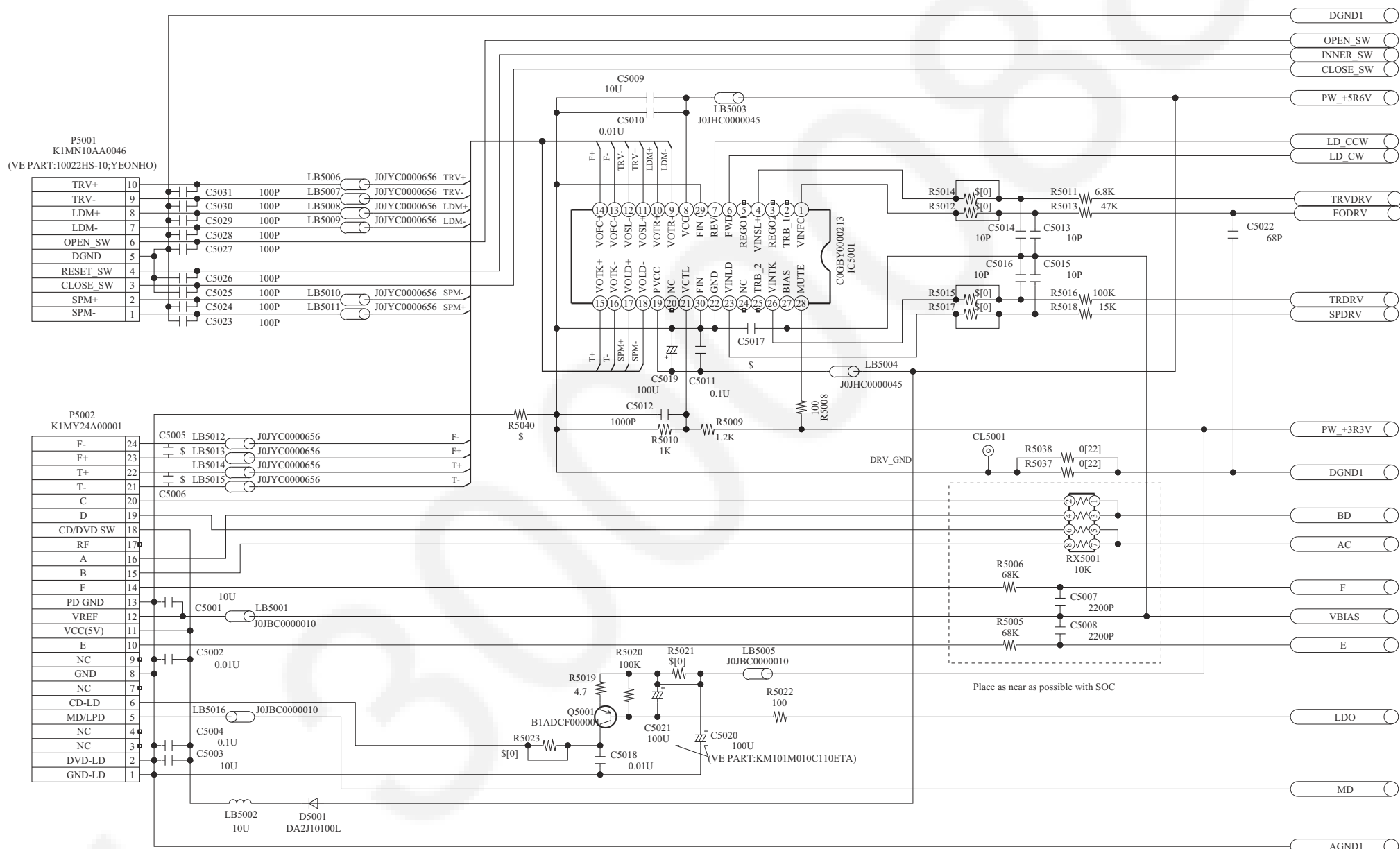
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection againsts fire harzard, replace with the same type fuse. fro rating, refer to the marking adjacent to the symbol.

PL/30000884

12.2. Main (CD) Circuit

SCHEMATIC DIAGRAM - 1

A MAIN (CD) CIRCUIT



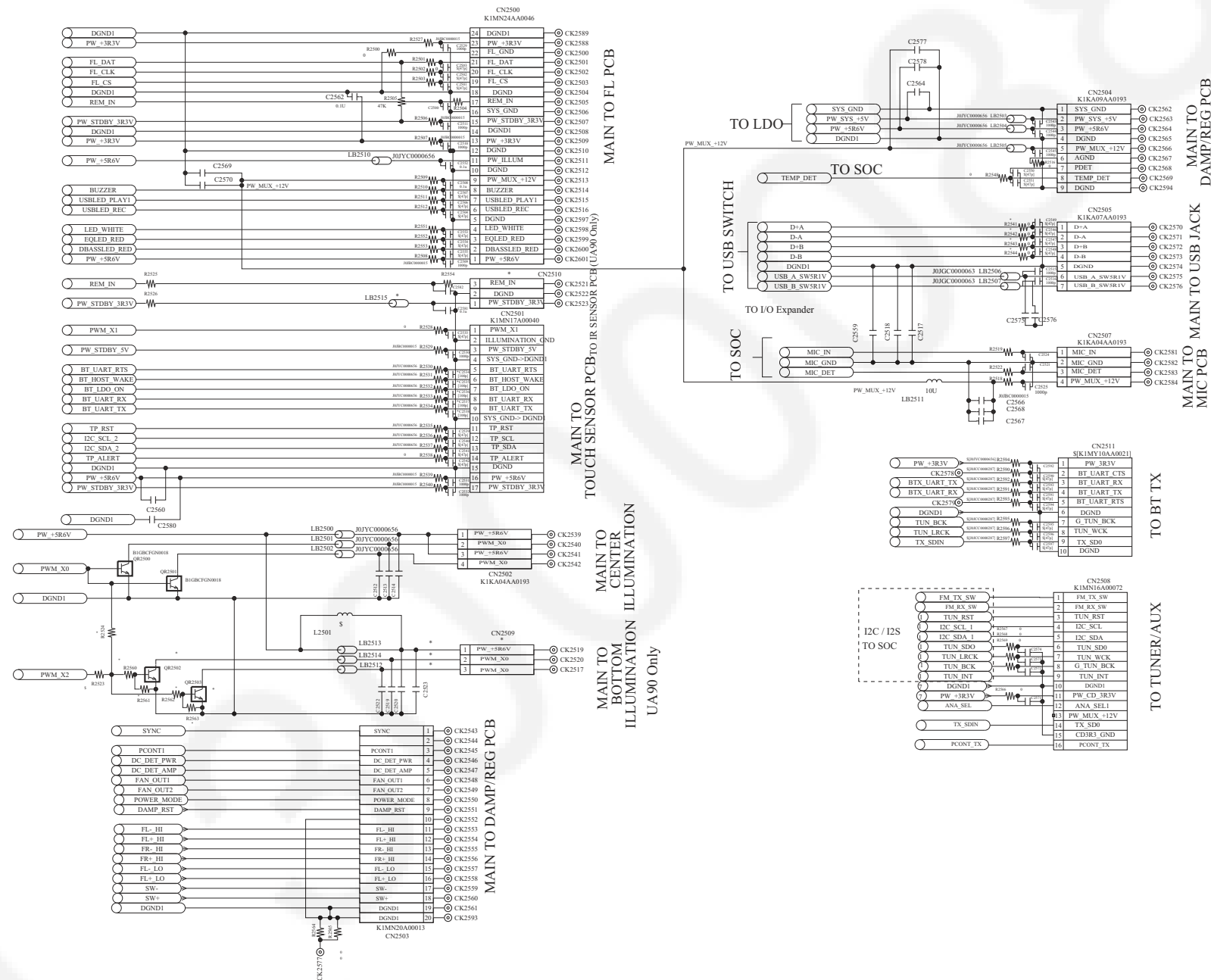
NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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12.3. Main (Connector) Circuit

SCHEMATIC DIAGRAM - 2

A MAIN (CONNECTOR) CIRCUIT



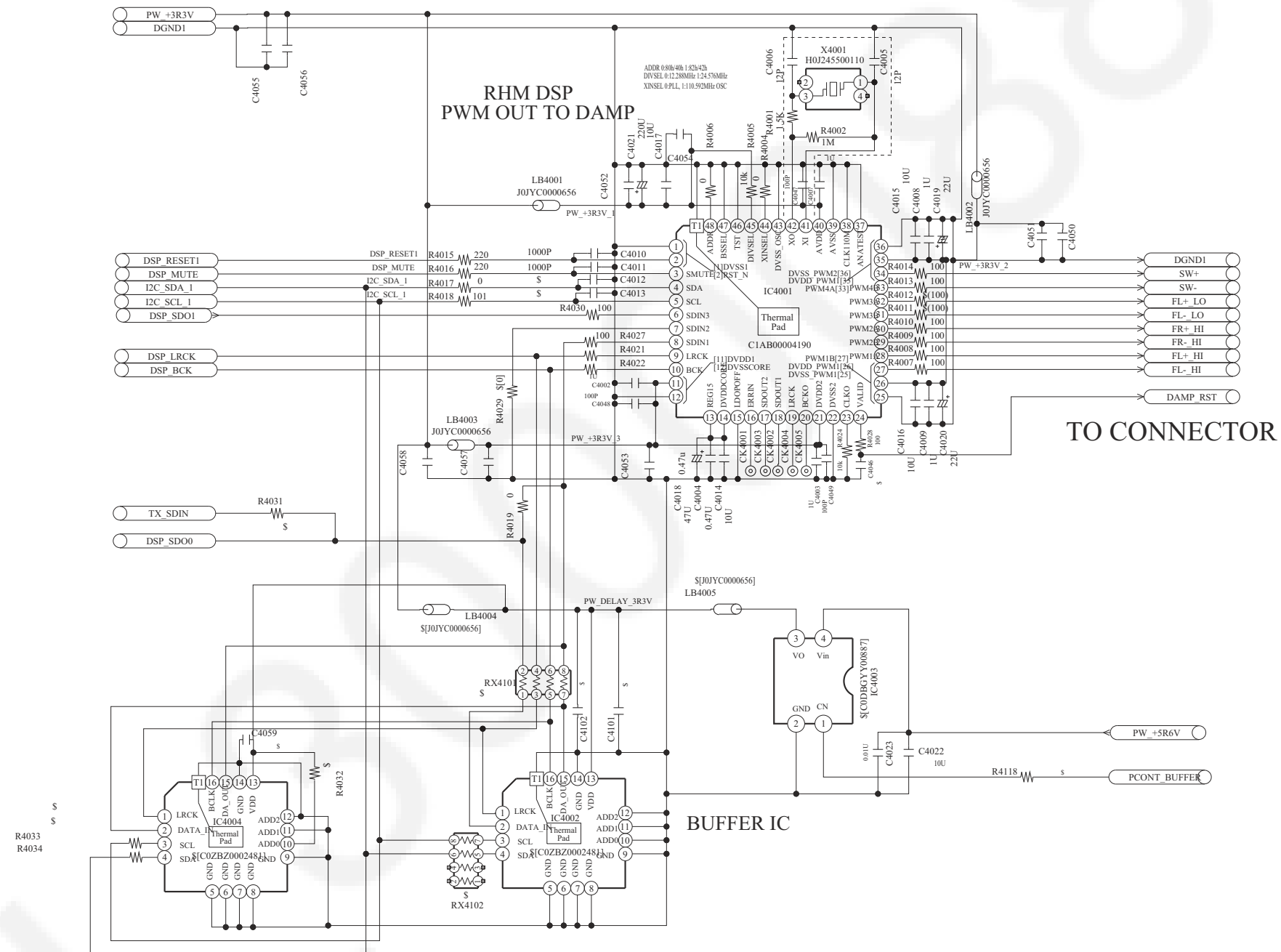
NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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12.4. Main (DSP) Circuit

SCHEMATIC DIAGRAM - 3

A MAIN (DSP) CIRCUIT

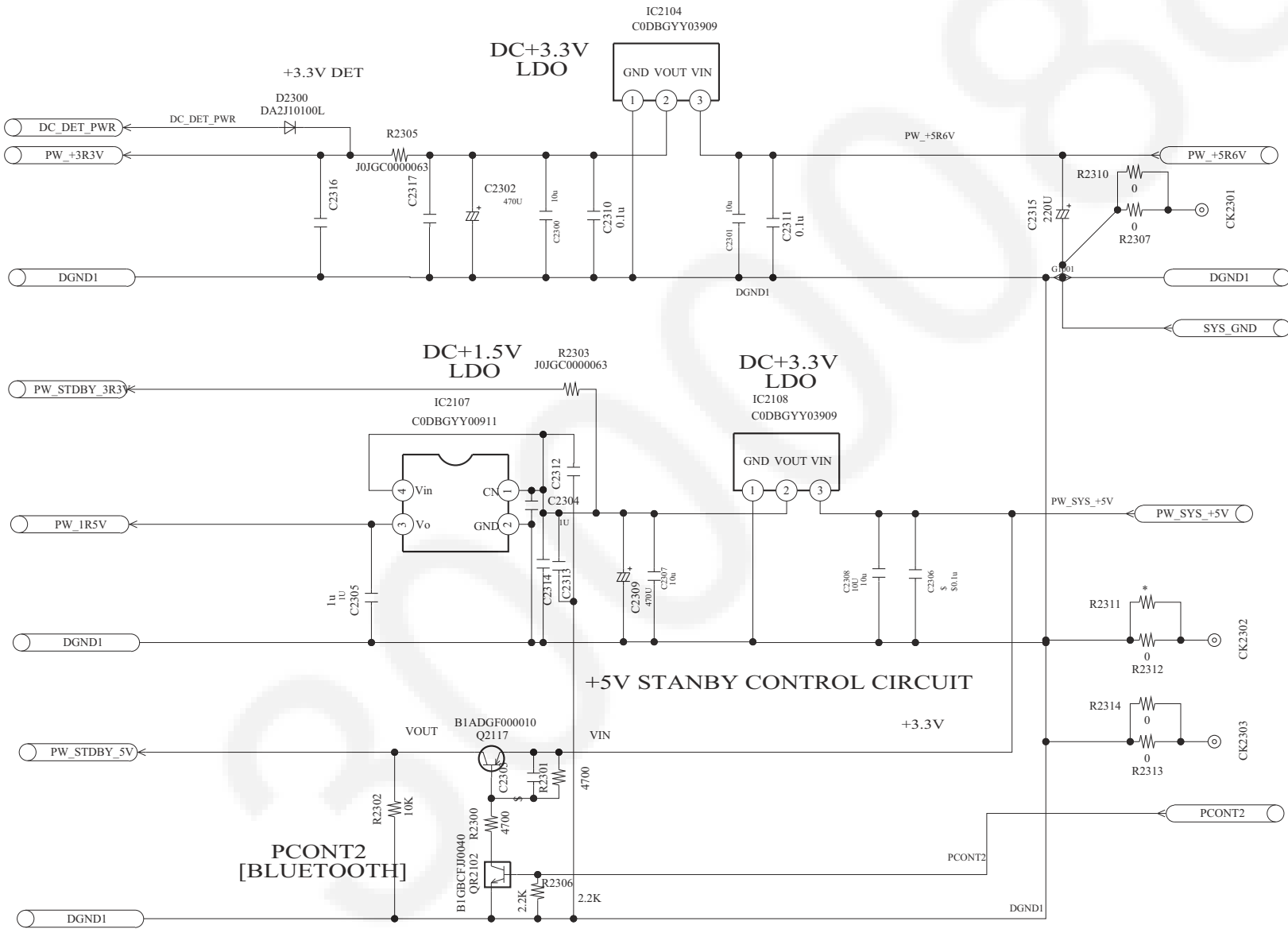


NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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12.5. Main (LDO) Circuit

SCHEMATIC DIAGRAM - 4
A MAIN (LDO) CIRCUIT



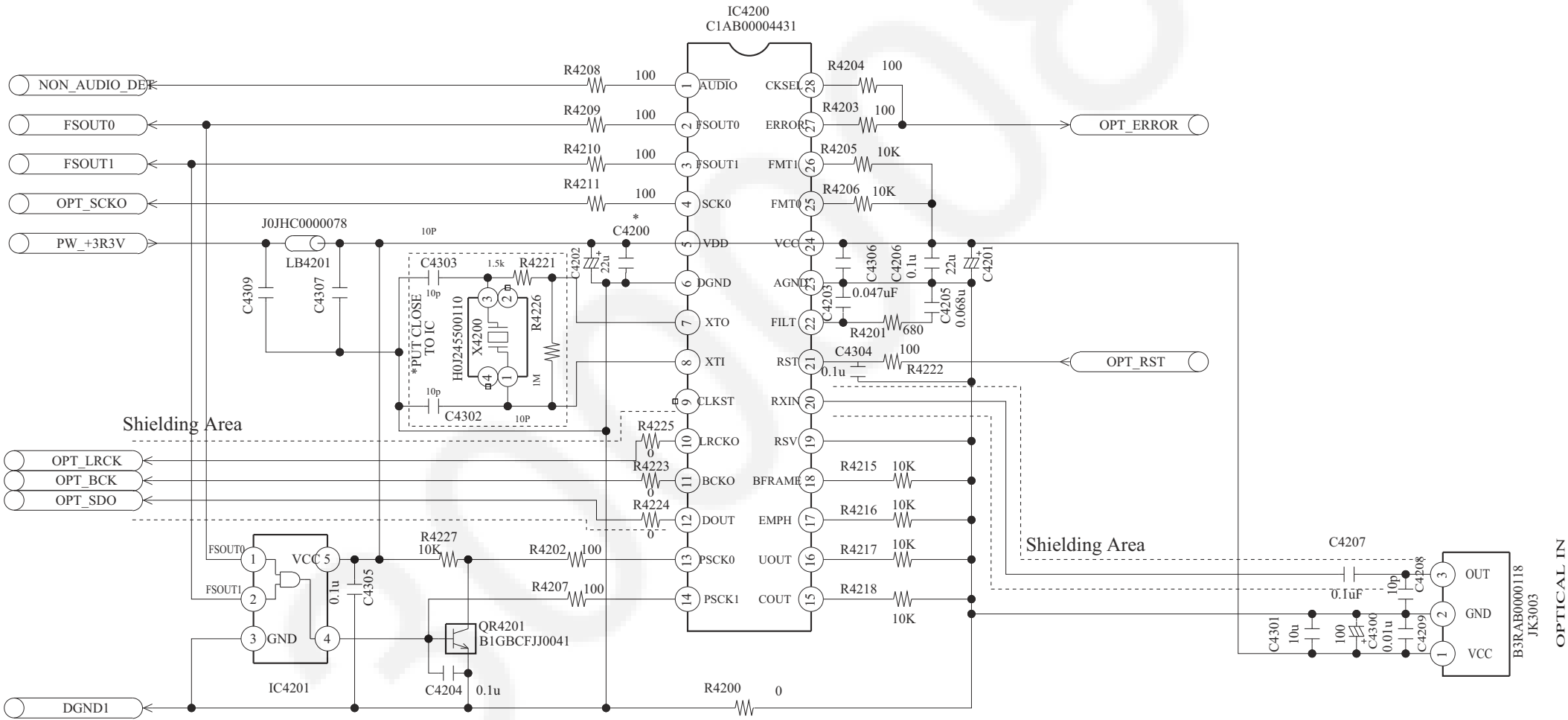
NOTE: “*”: VARIATION, REFER TO PARTLIST FOR VALUE
“\$”: NOT IN USED

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12.6. Main (Optical) Circuit

SCHEMATIC DIAGRAM - 5

A MAIN (OPTICAL) CIRCUIT

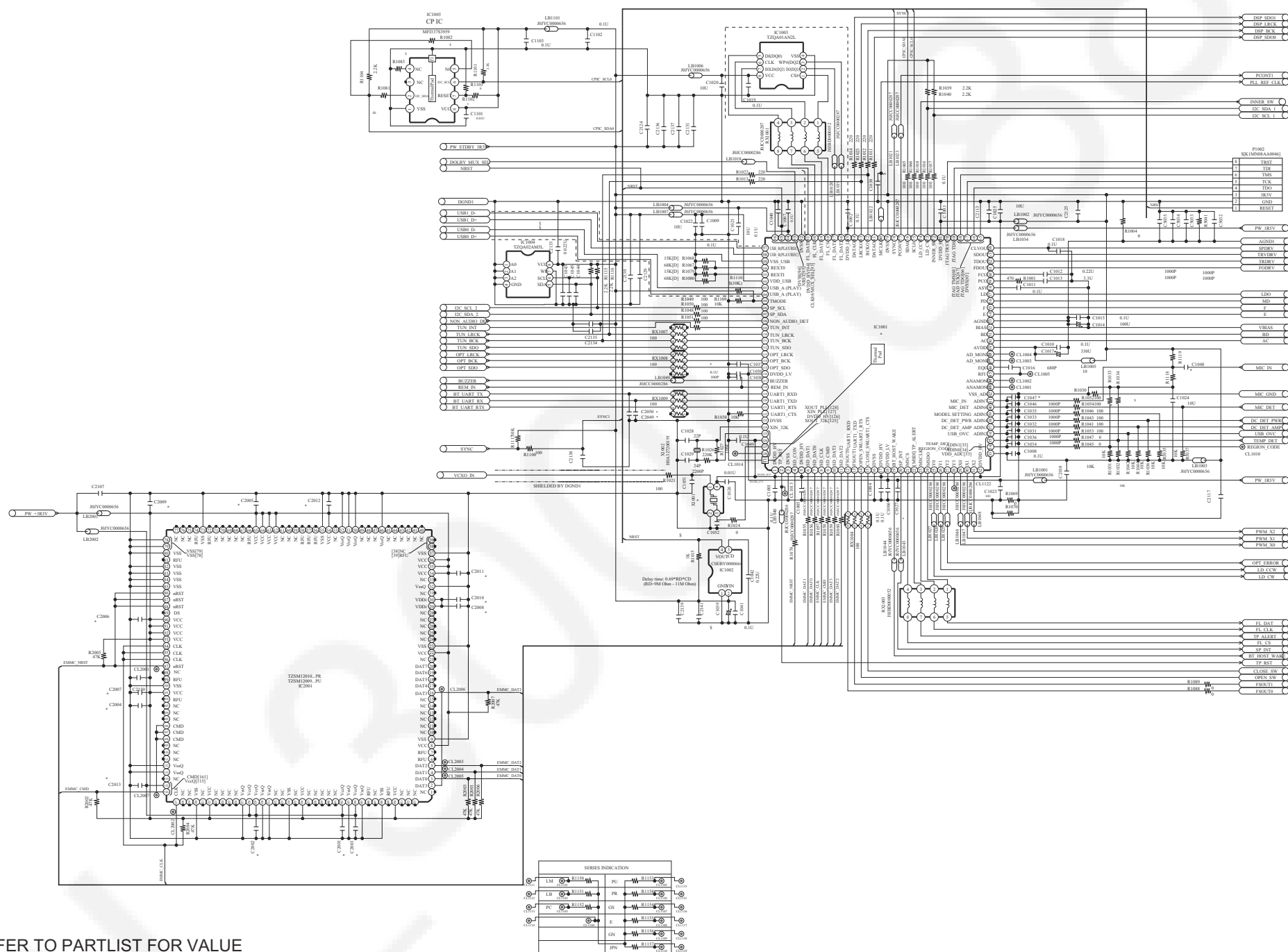


NOTE: “*” : VARIATION, REFER TO PARTLIST FOR VALUE
“\$” : NOT IN USED

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12.7. Main (Micon) Circuit

SCHEMATIC DIAGRAM - 6
A MAIN (MICON) CIRCUIT



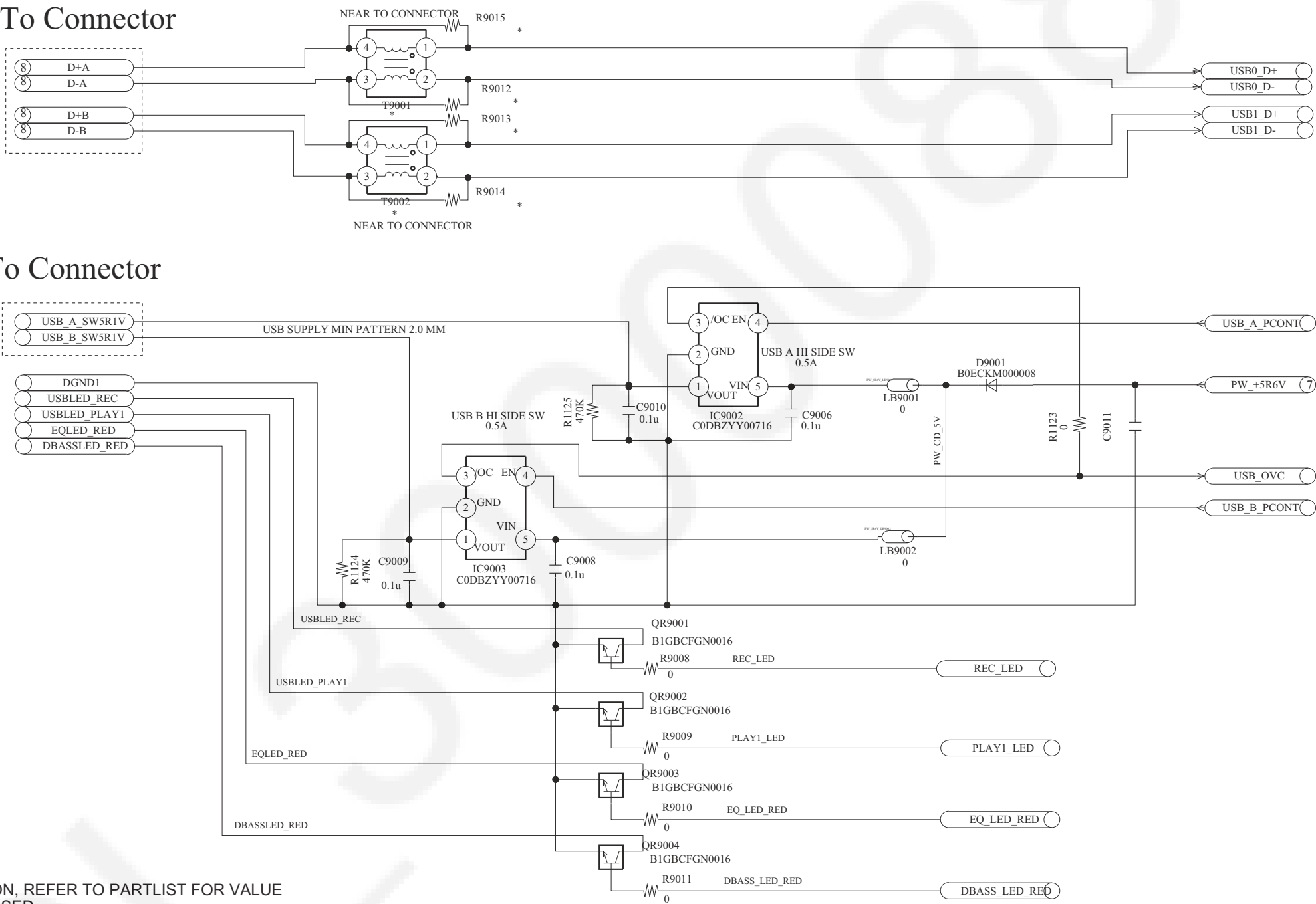
NOTE: “*” : VARIATION, REFER TO PARTLIST FOR VALUE
“\$” : NOT IN USED

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12.8. Main (USB) Circuit

SCHEMATIC DIAGRAM - 7

A MAIN (USB) CIRCUIT



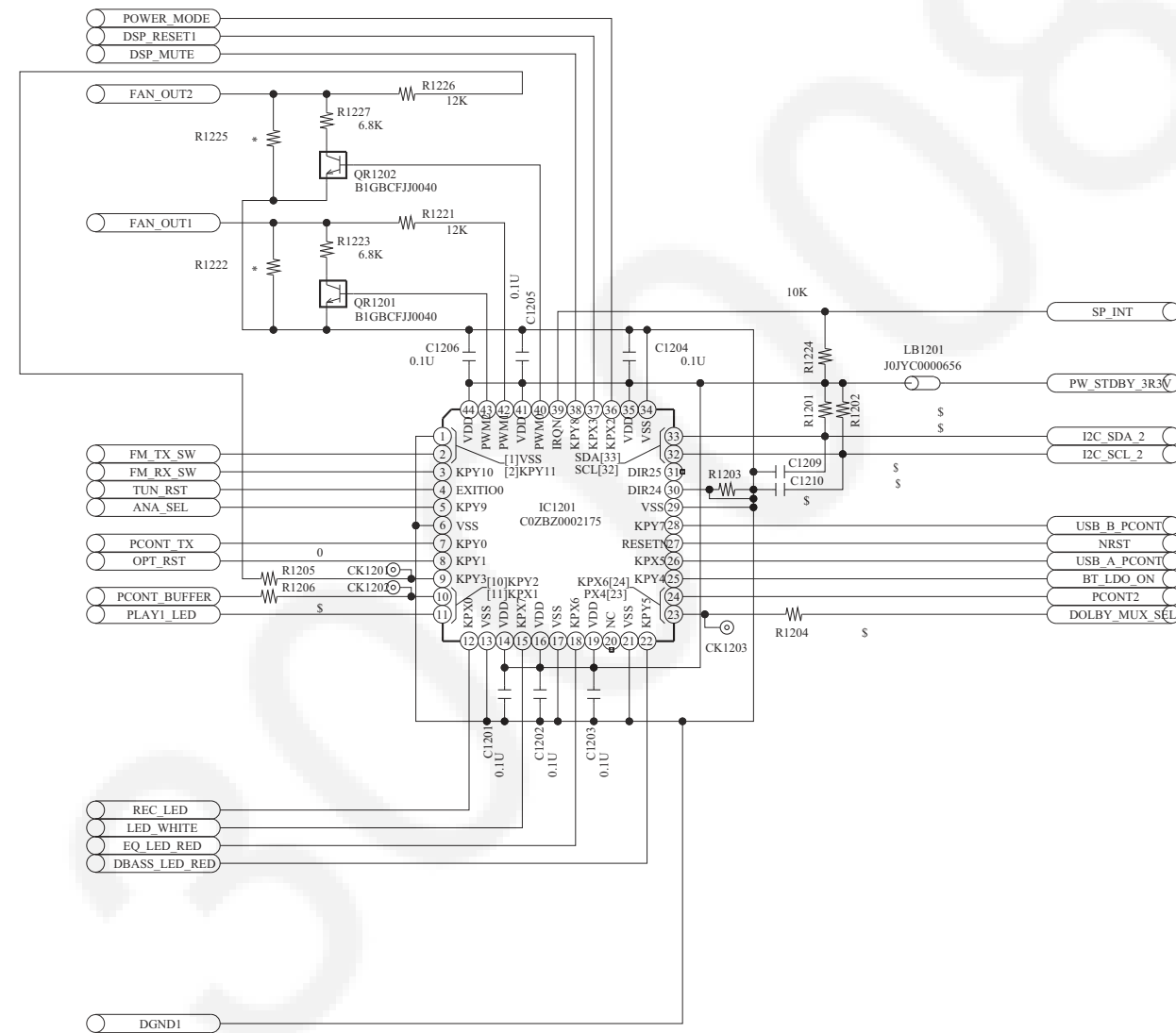
NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
 " \$ " : NOT IN USED

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12.9. Main (IO Expander) Circuit

SCHEMATIC DIAGRAM - 8

A MAIN (IO EXPANDER) CIRCUIT



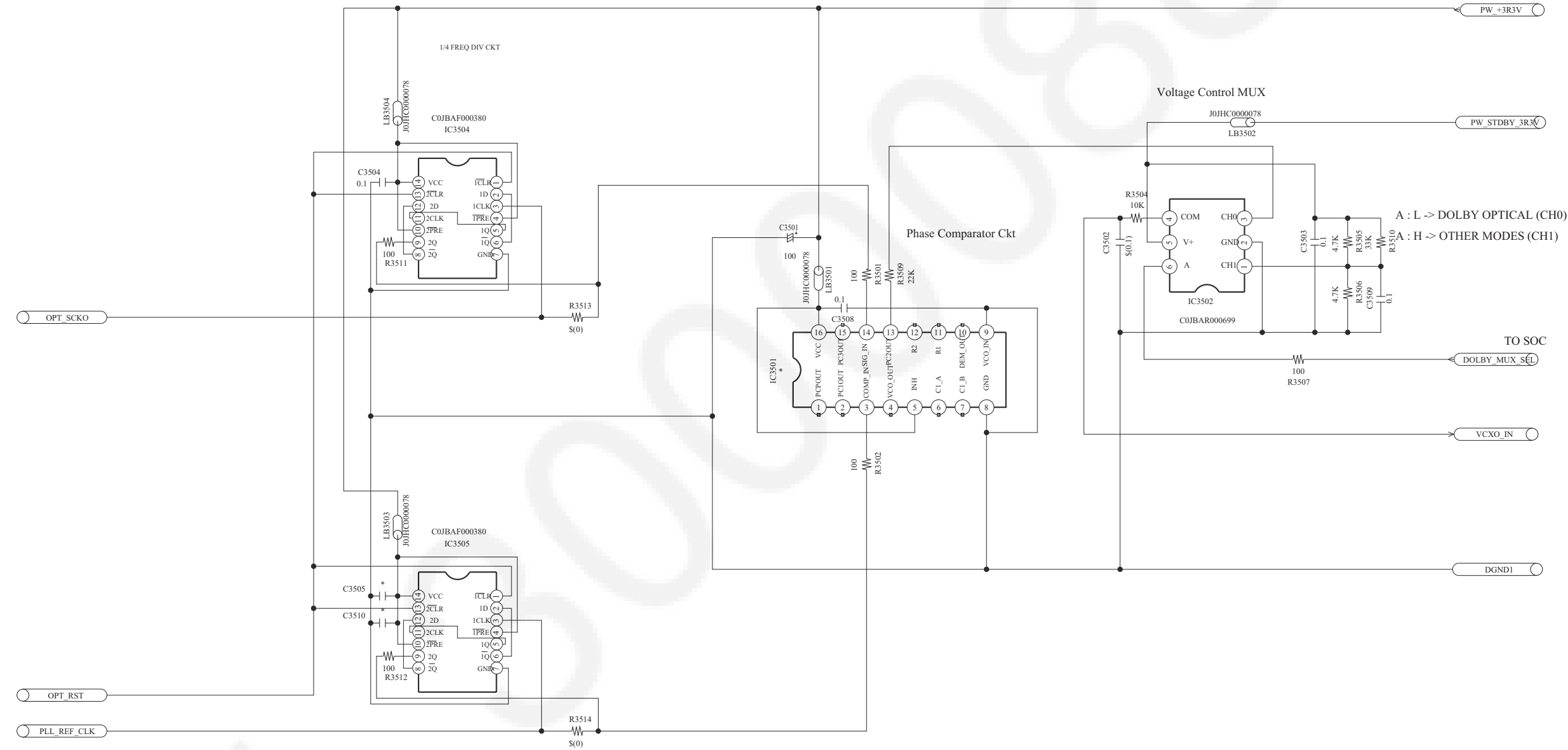
NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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12.10. Main (Dolby PLL) Circuit

SCHEMATIC DIAGRAM - 9

A MAIN (DOLBY PLL) CIRCUIT

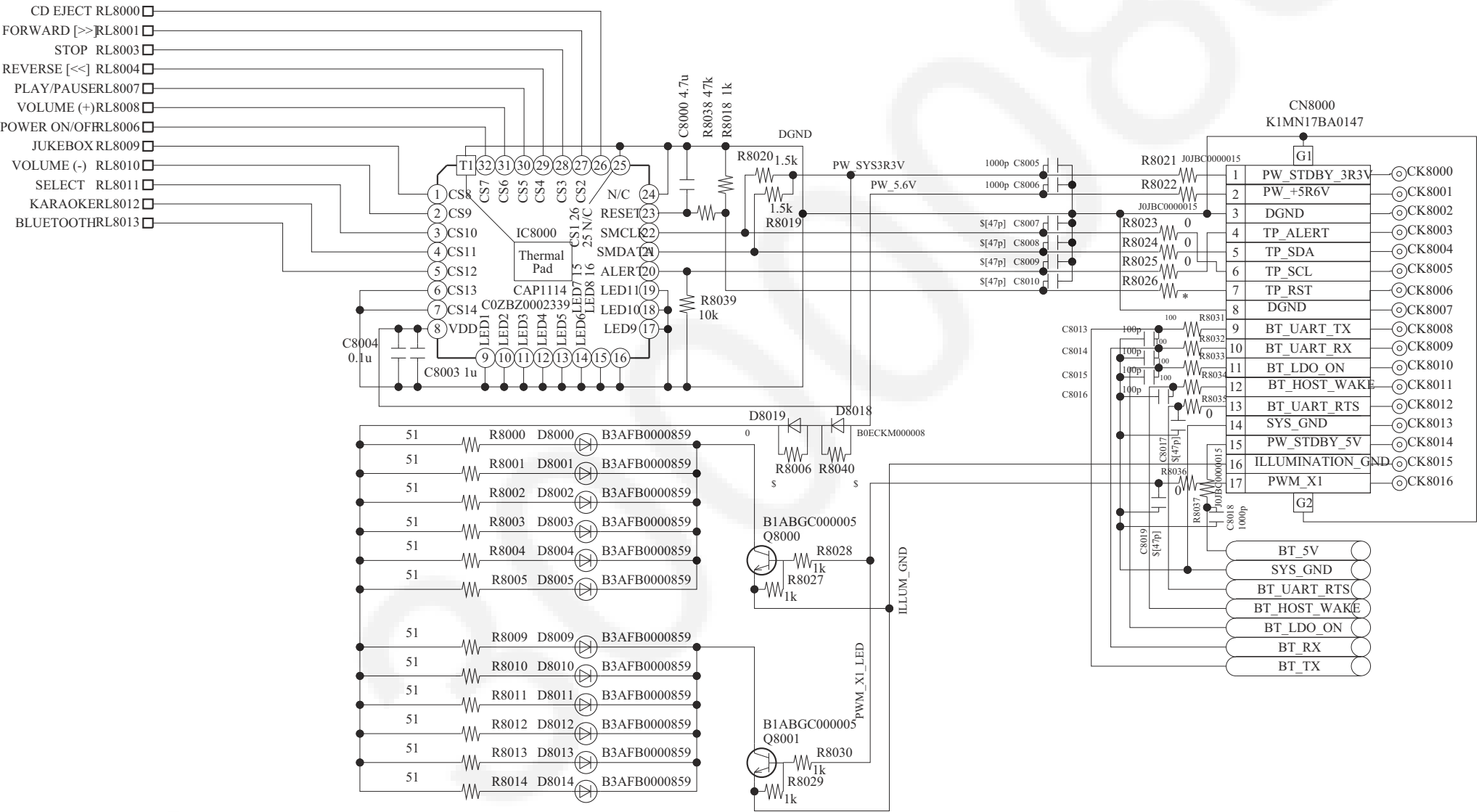


NOTE: "*" : VARIATION, REFER TO PARTLIST FOR VALUE
"\$" : NOT IN USED

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12.11. Touch Sensor Circuit

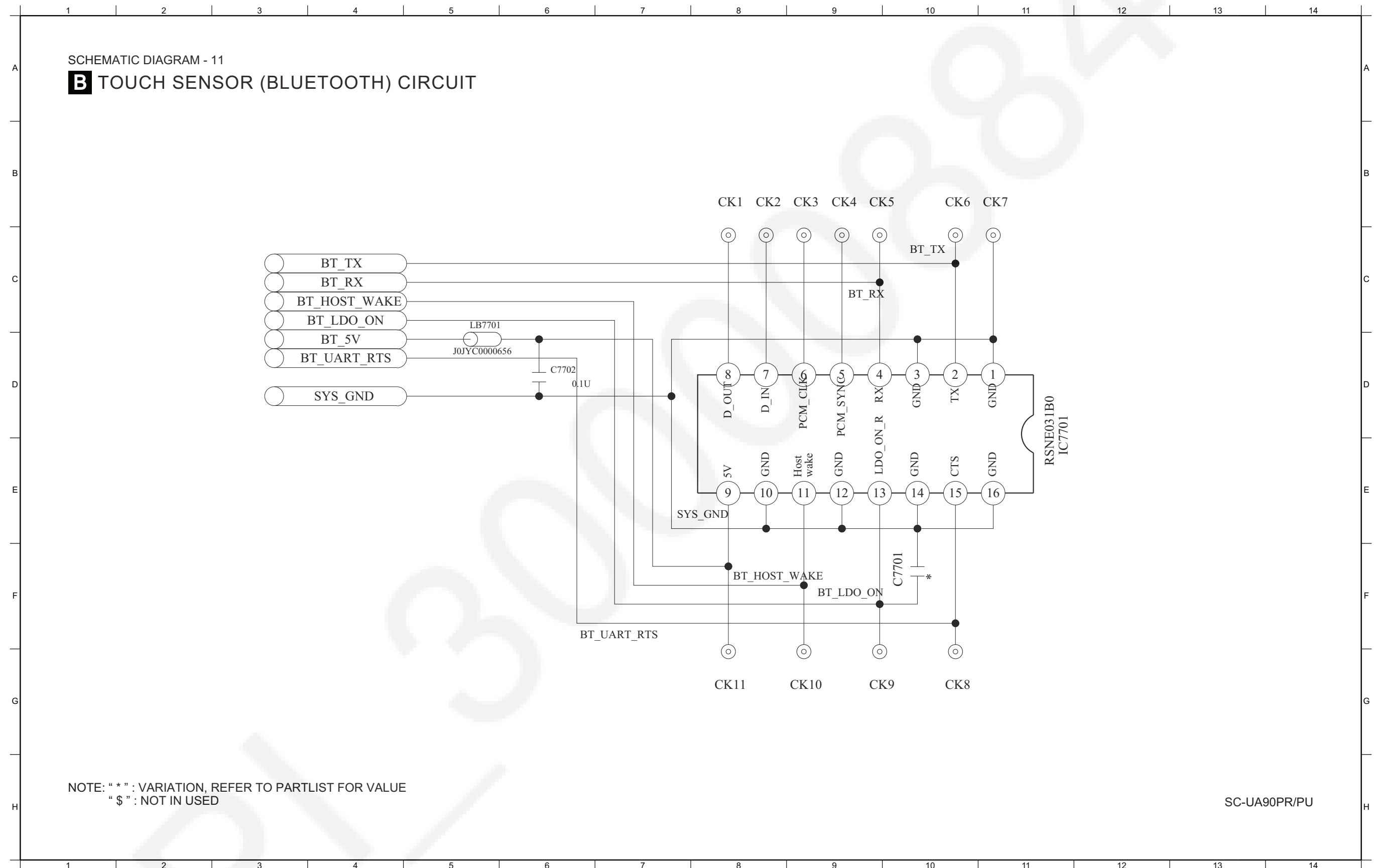
SCHEMATIC DIAGRAM - 10
B TOUCH SENSOR CIRCUIT



NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

SC-UA90PR/PU

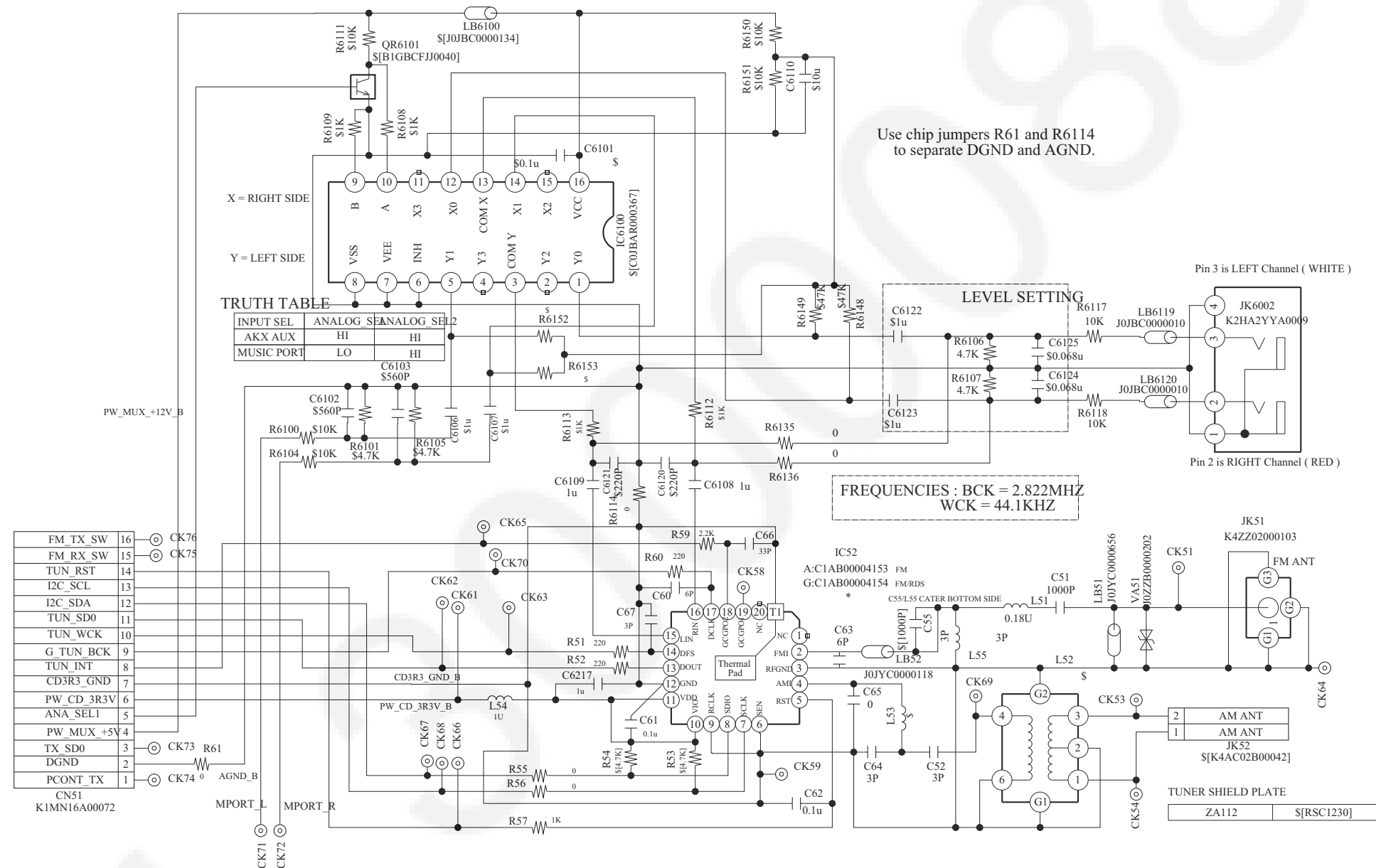
12.12. Touch Sensor (Bluetooth) Circuit



12.13. Tuner Circuit

SCHEMATIC DIAGRAM - 12

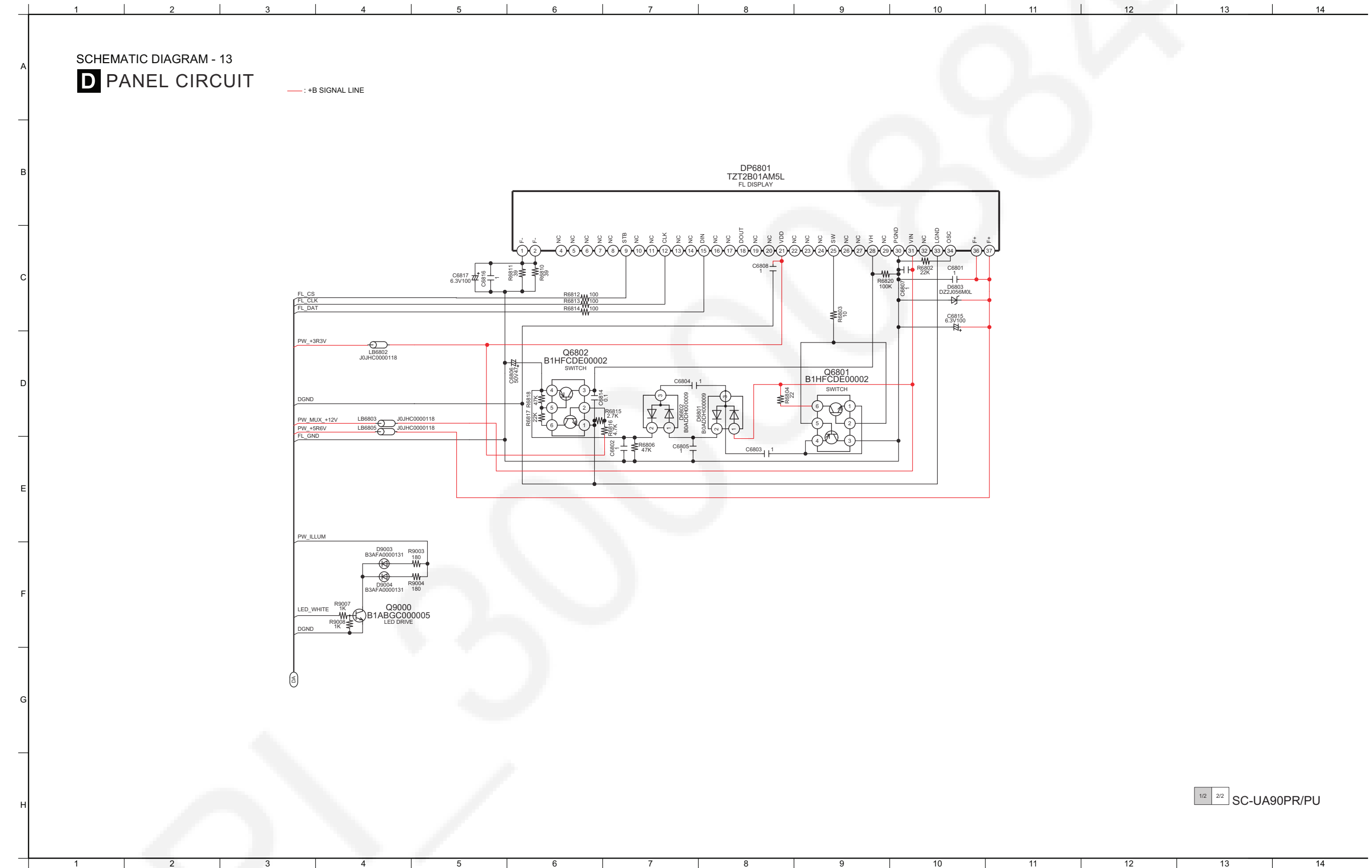
C TUNER CIRCUIT



NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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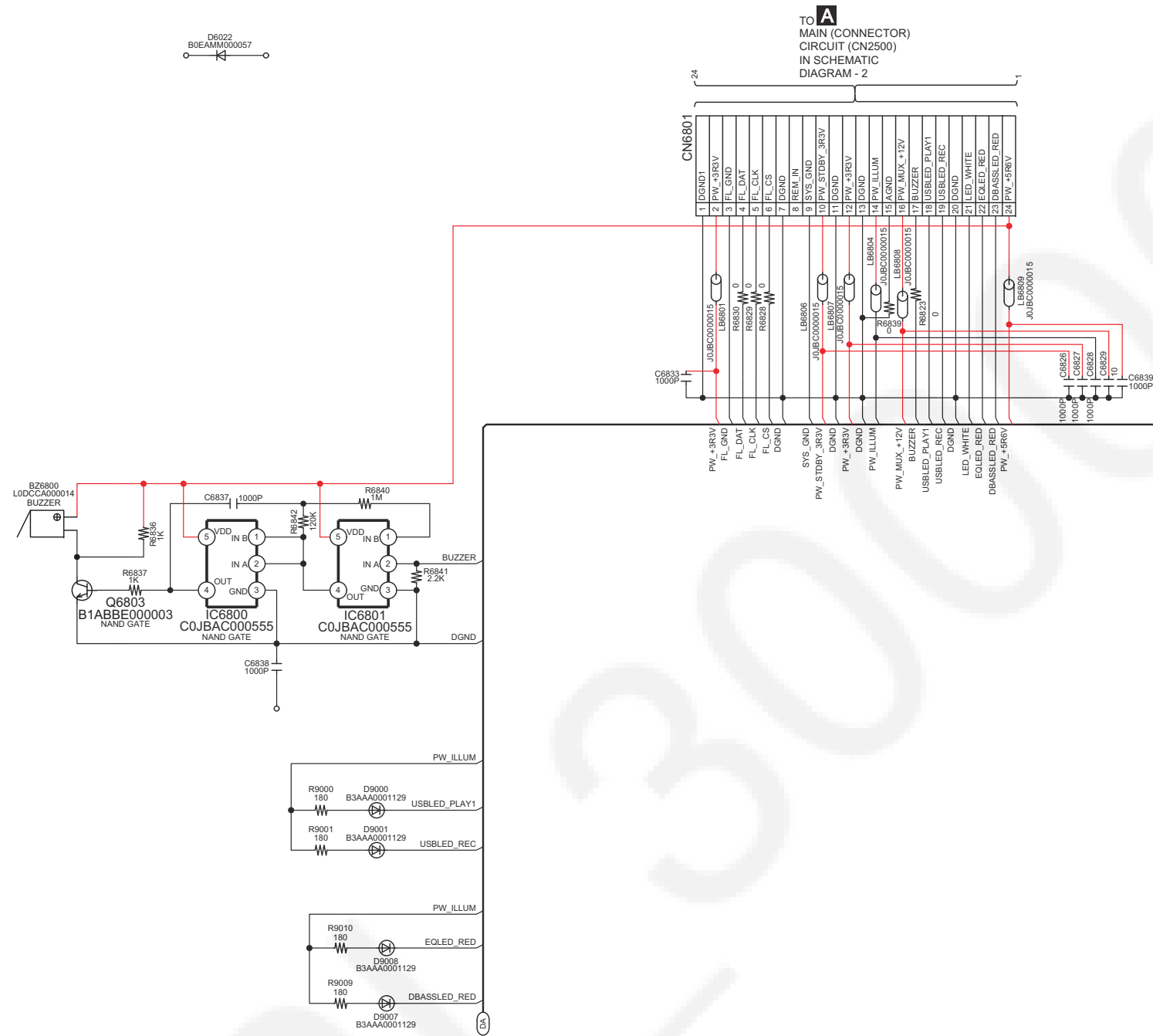
12.14. Panel Circuit (1/2)



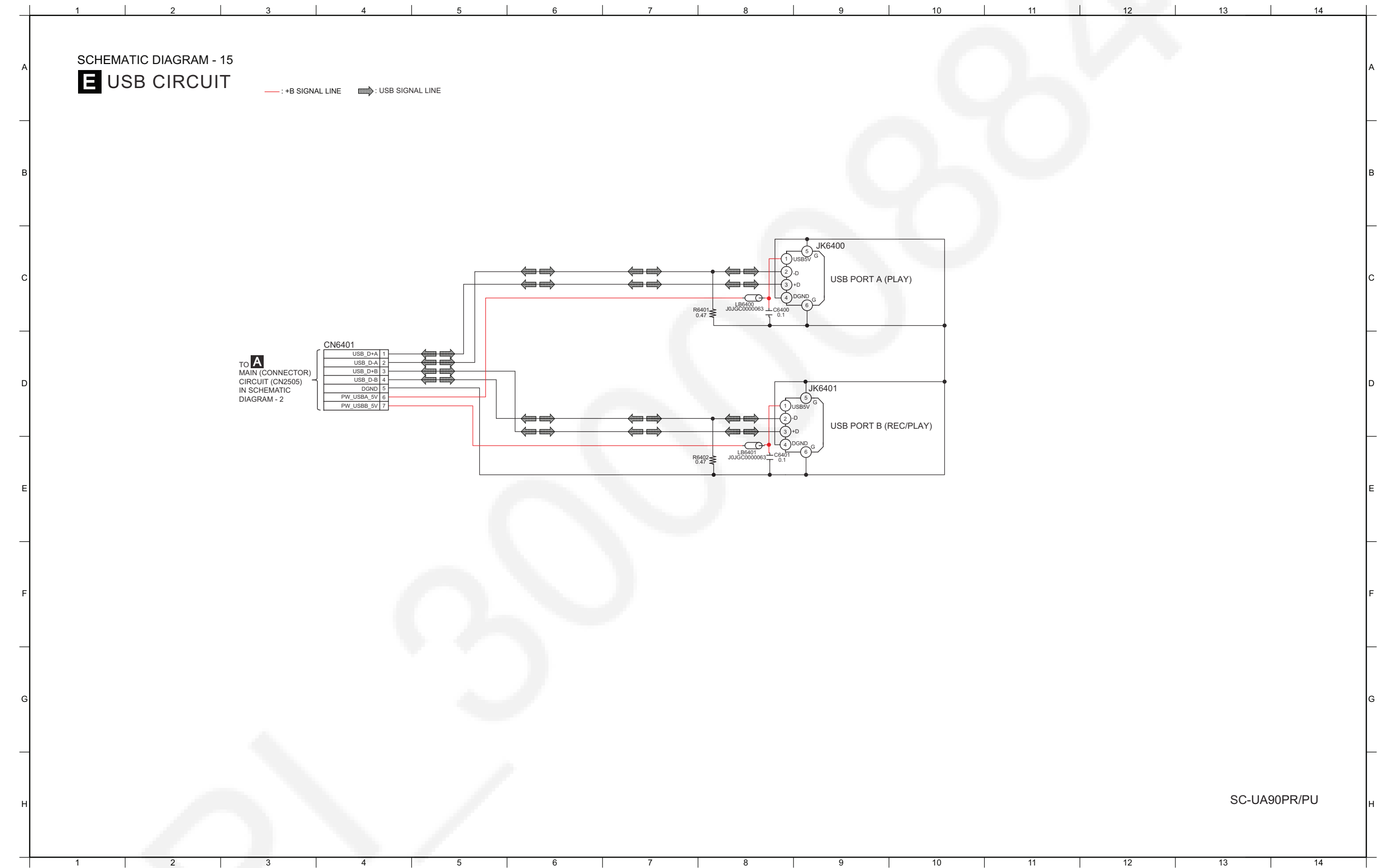
12.15. Panel Circuit (2/2)

SCHEMATIC DIAGRAM - 14
D PANEL CIRCUIT

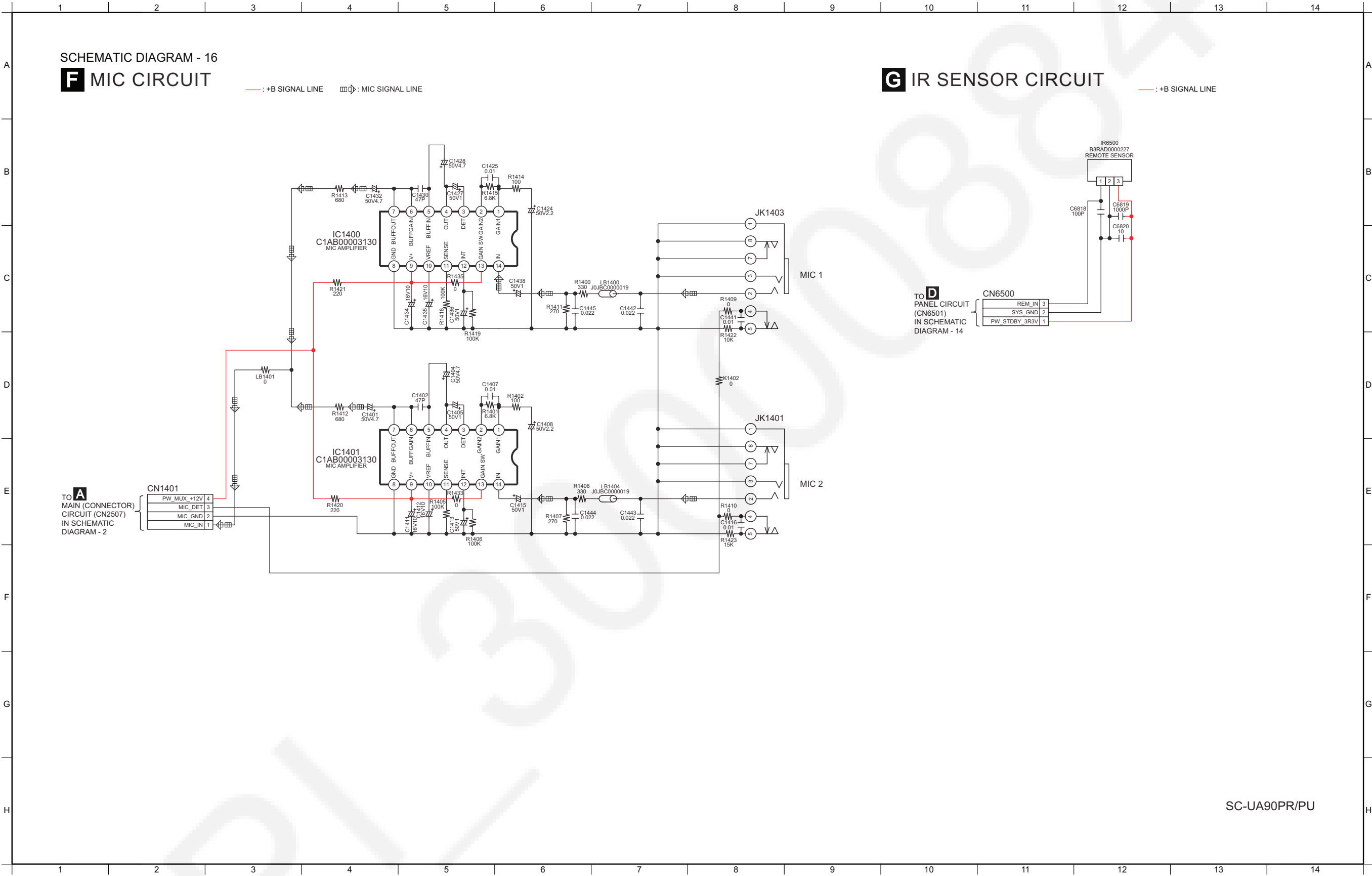
— : +B SIGNAL LINE



12.16. USB Circuit

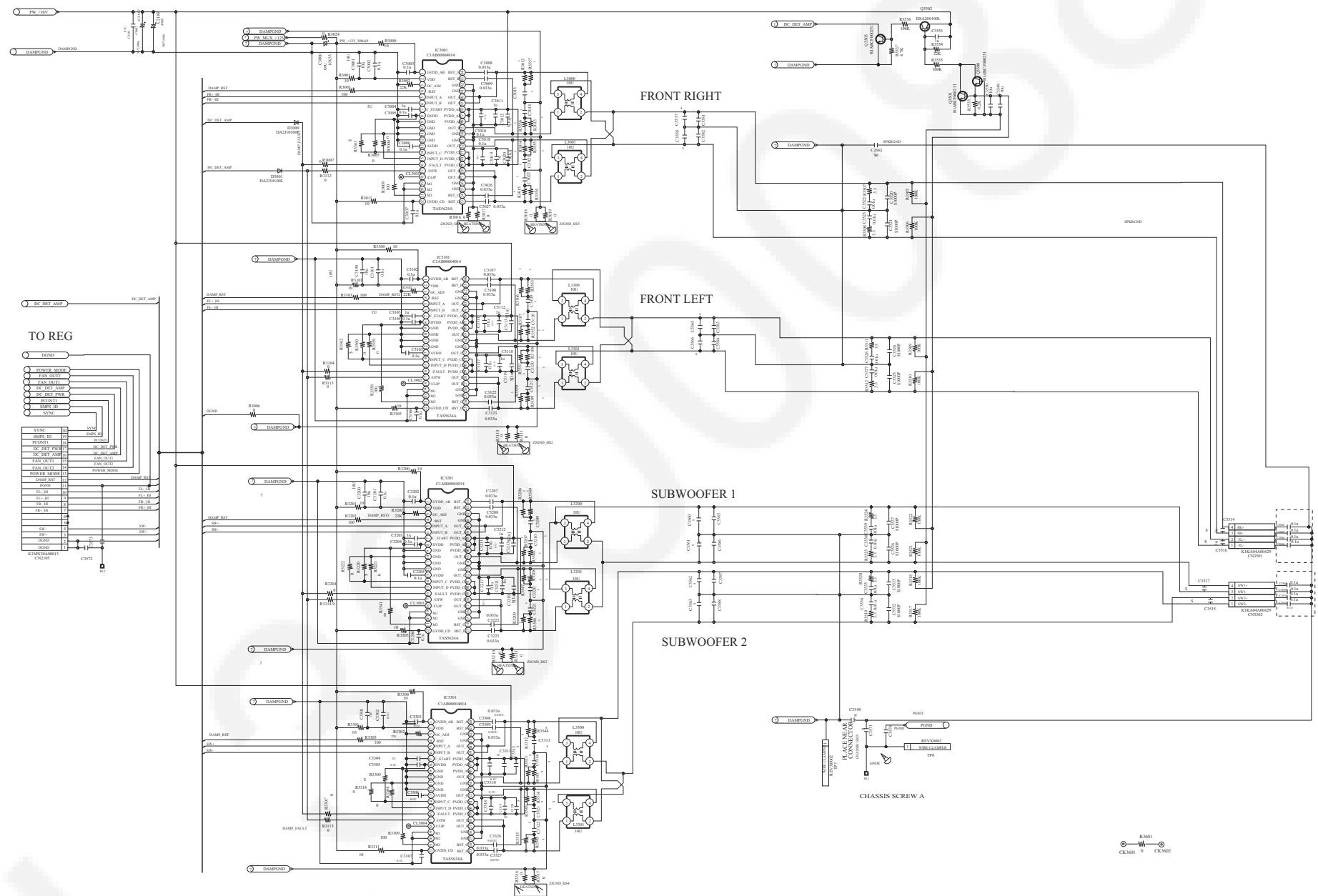


12.17. Mic and IR Sensor Circuit



12.18. DAMP Circuit

SCHEMATIC DIAGRAM - 17
H DAMP CIRCUIT

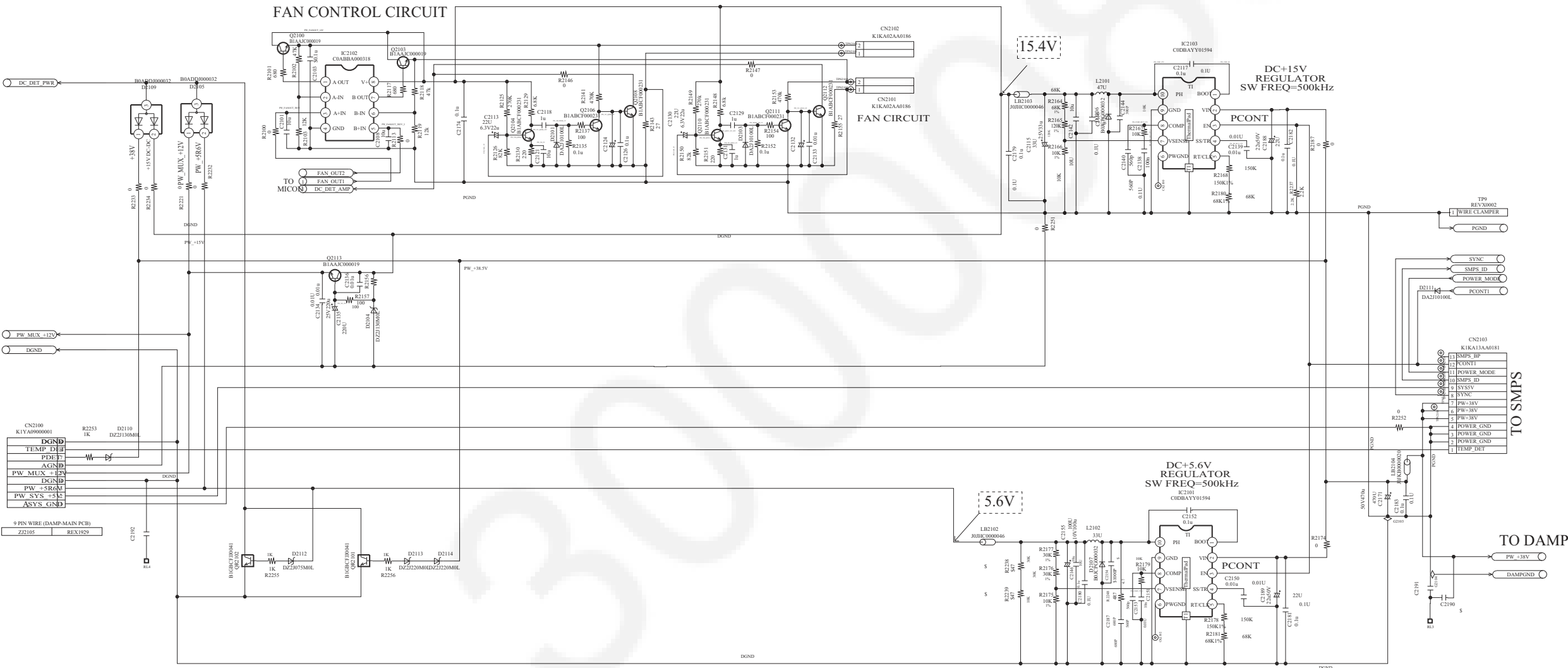


NOTE: " * " : VARIATION, REFER TO PARTLIST FOR VALUE
" \$ " : NOT IN USED

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12.19. DAMP Vreg Circuit

SCHEMATIC DIAGRAM - 18
H DAMP VREG CIRCUIT



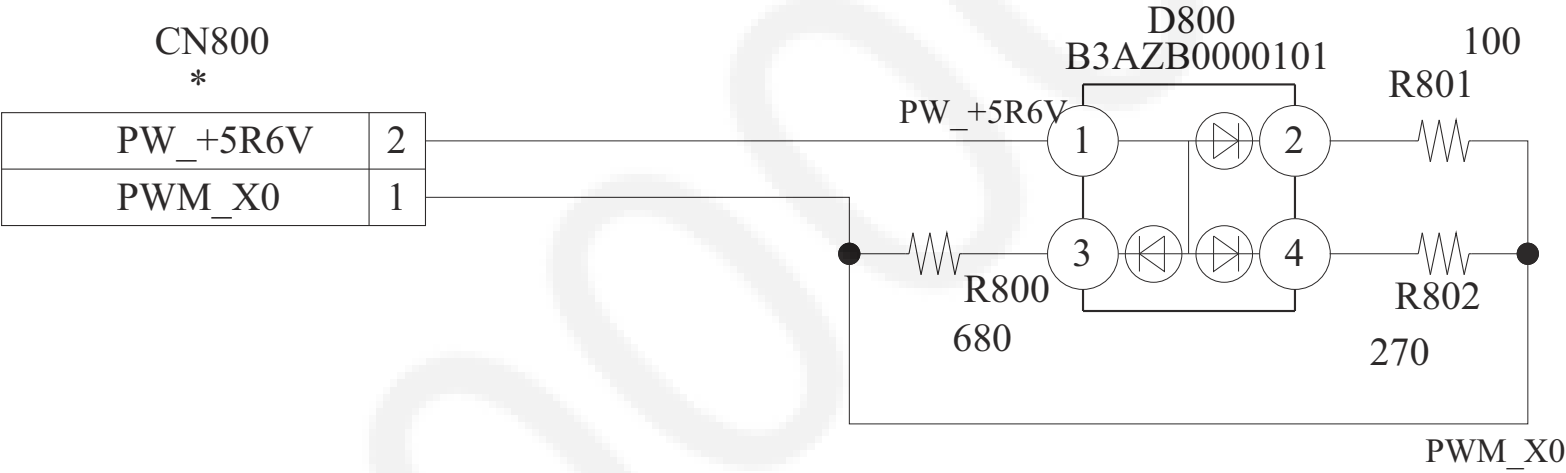
NOTE: “ * ” : VARIATION, REFER TO PARTLIST FOR VALUE
“ \$ ” : NOT IN USED

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12.20. Center Illumination L Circuit

SCHEMATIC DIAGRAM - 19

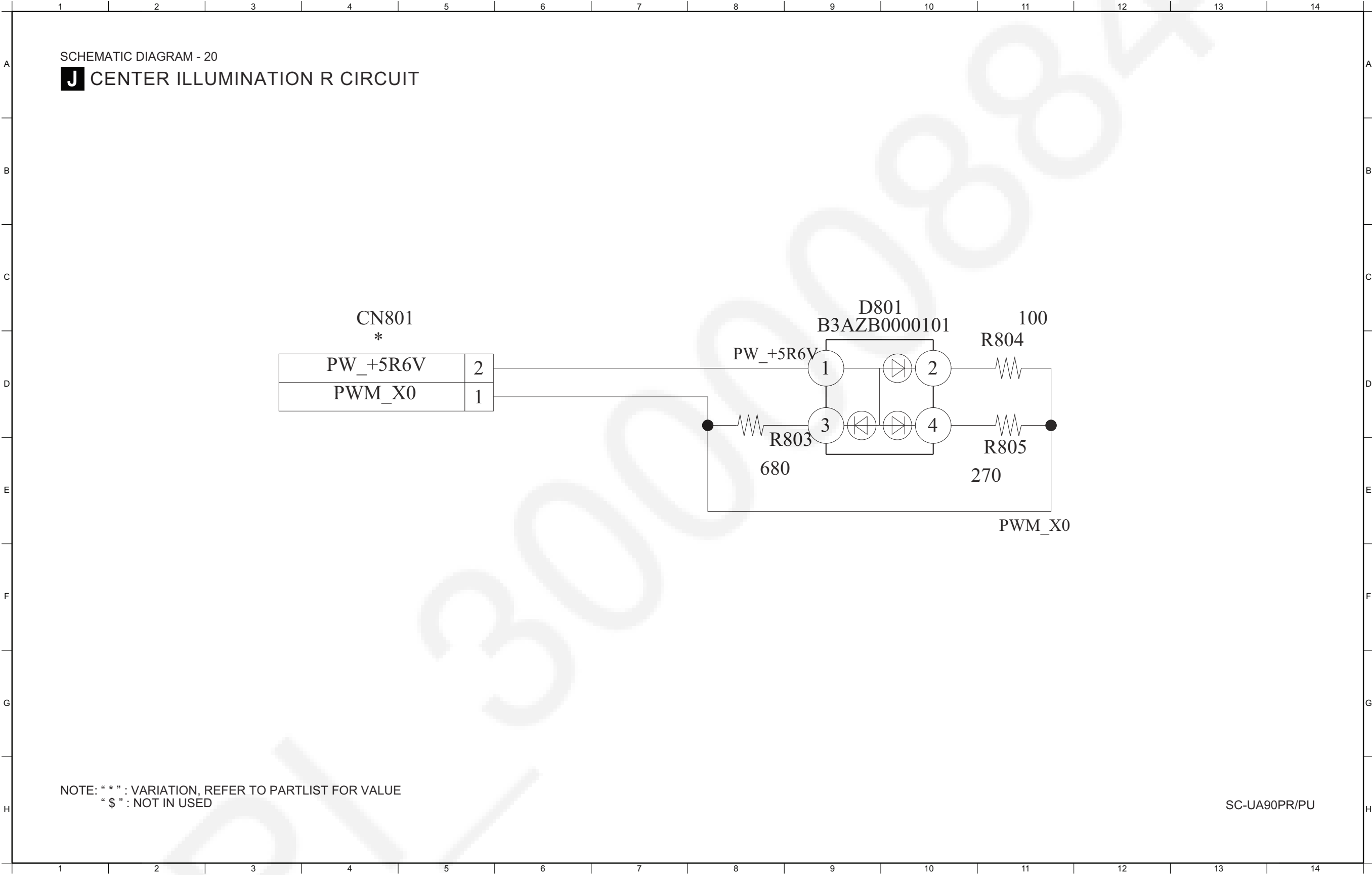
I CENTER ILLUMINATION L CIRCUIT



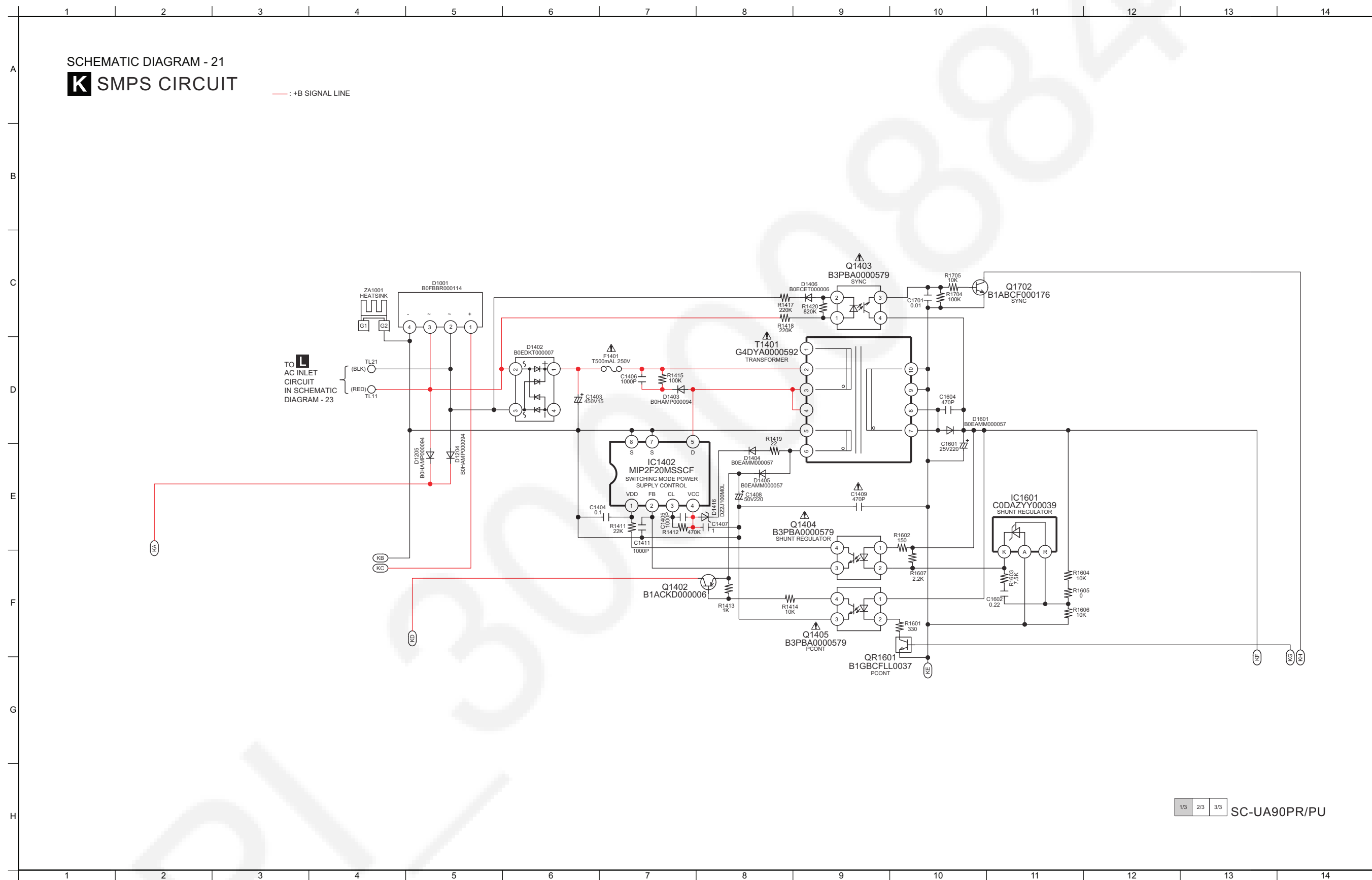
NOTE: “*” : VARIATION, REFER TO PARTLIST FOR VALUE
“\$” : NOT IN USED

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12.21. Center Illumination R Circuit



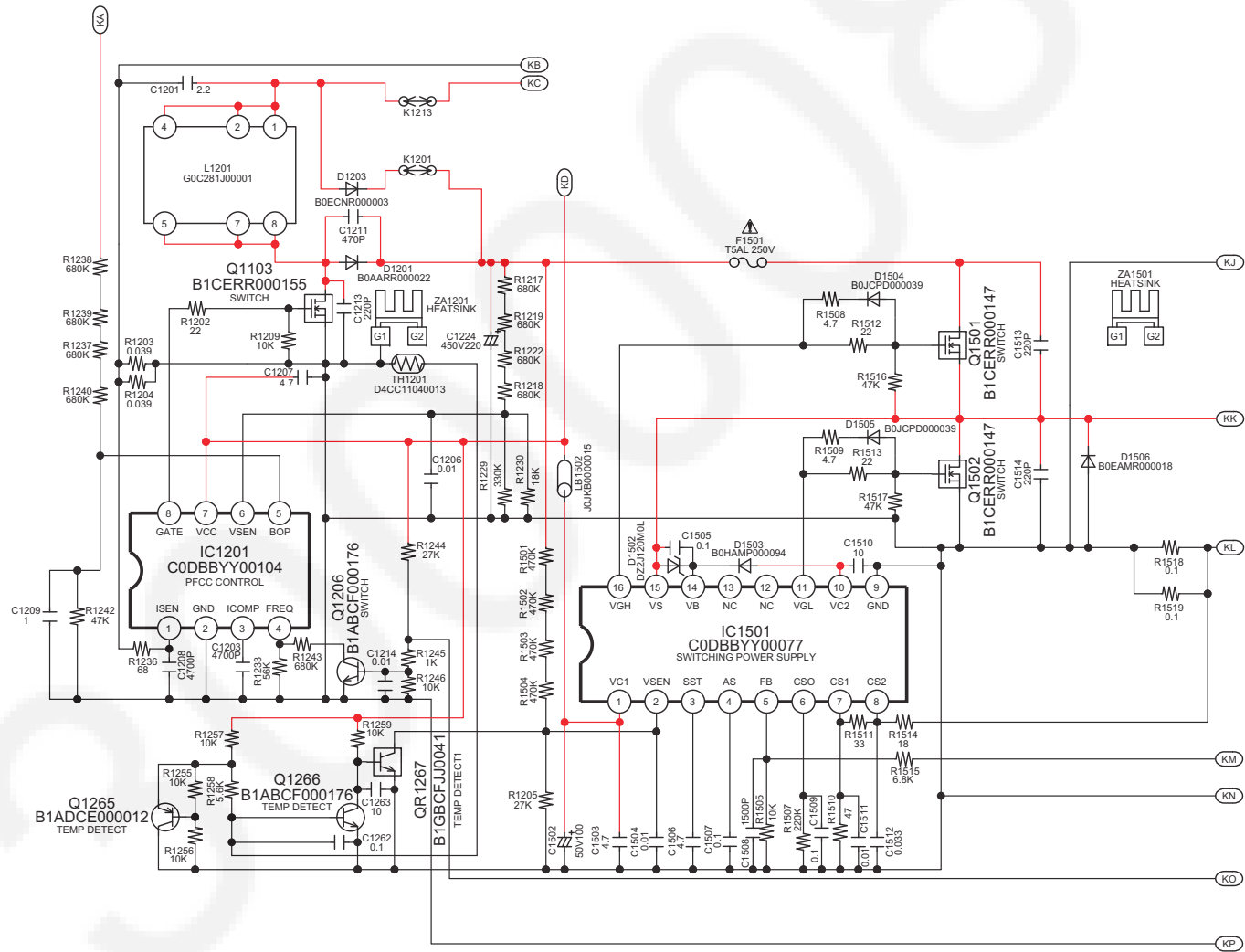
12.22. SMPS, AC Inlet and CD Interface Circuit (1/3)



12.23. SMPS, AC Inlet and CD Interface Circuit (2/3)

SCHEMATIC DIAGRAM - 22
K SMPS CIRCUIT

— : +B SIGNAL LINE

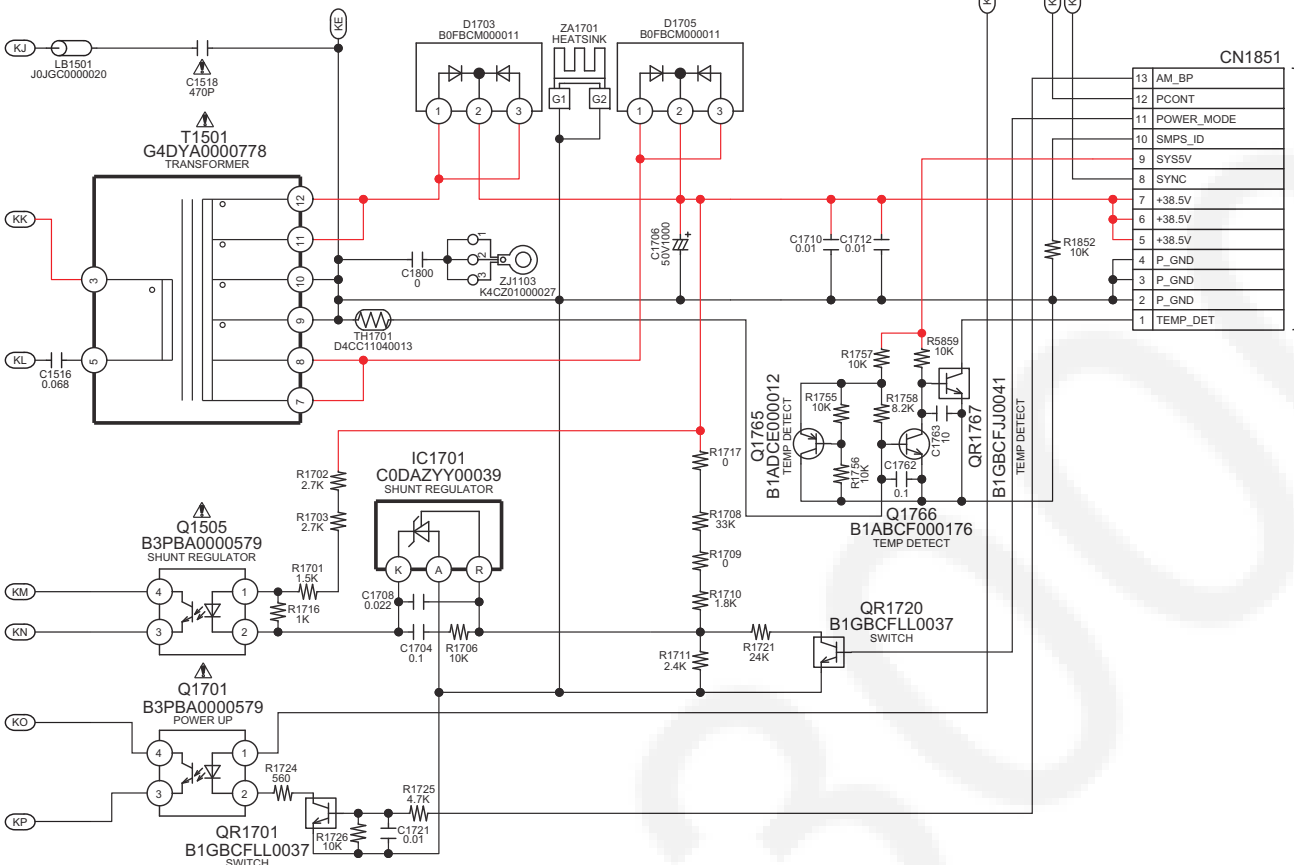


12.24. SMPS, AC Inlet and CD Interface Circuit (3/3)

SCHEMATIC DIAGRAM - 23

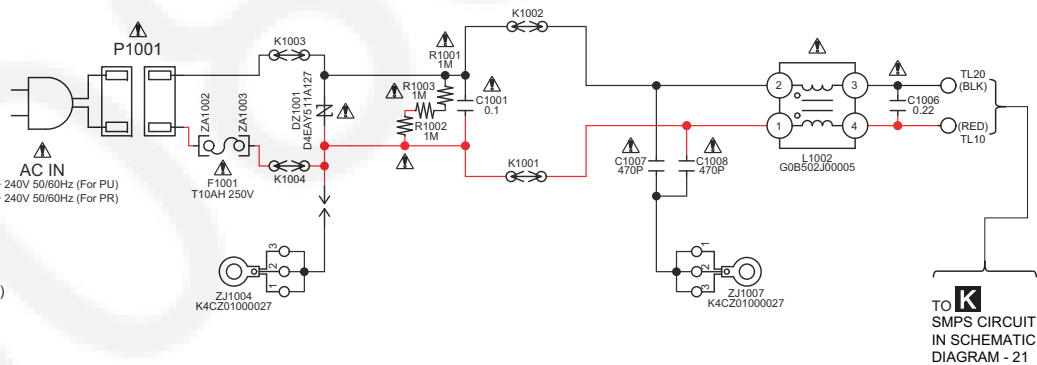
K SMPS CIRCUIT

— : +B SIGNAL LINE

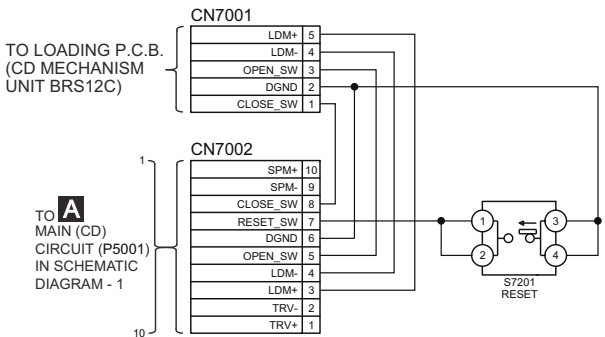


L AC INLET CIRCUIT

— : +B SIGNAL LINE



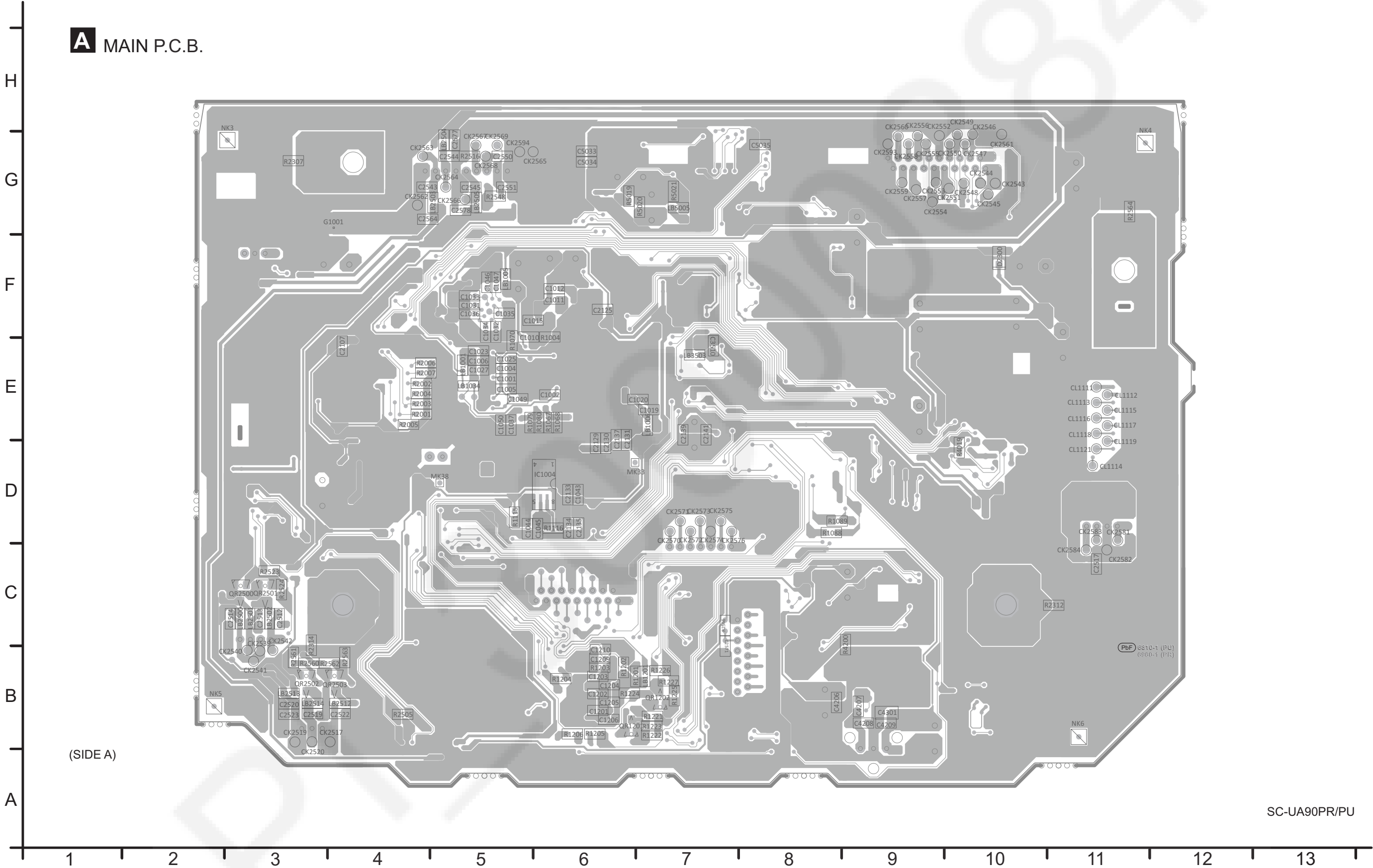
M CD INTERFACE CIRCUIT



13 Printed Circuit Board

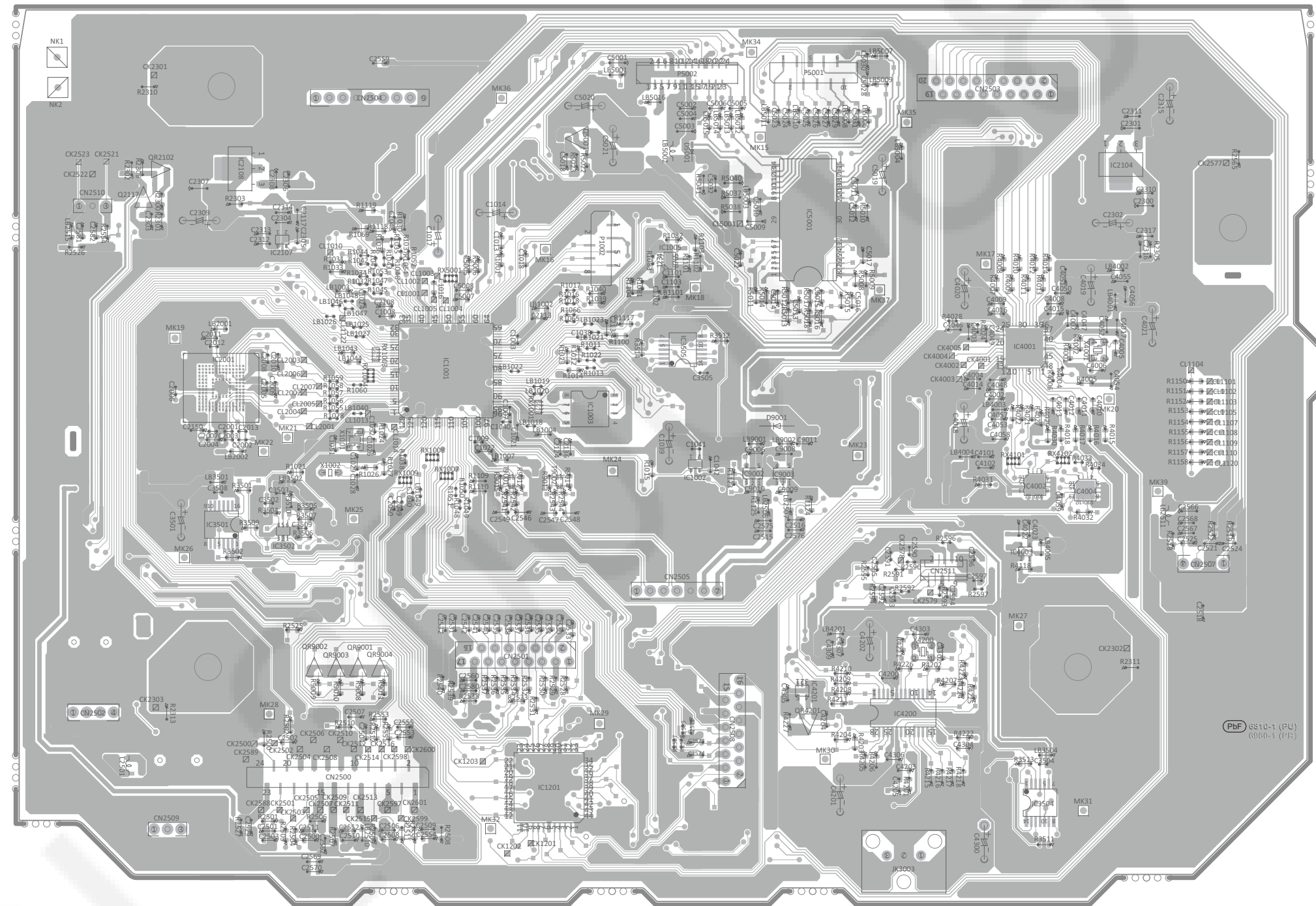
13.1. Main P.C.B. (Side A)

A MAIN P.C.B.



•

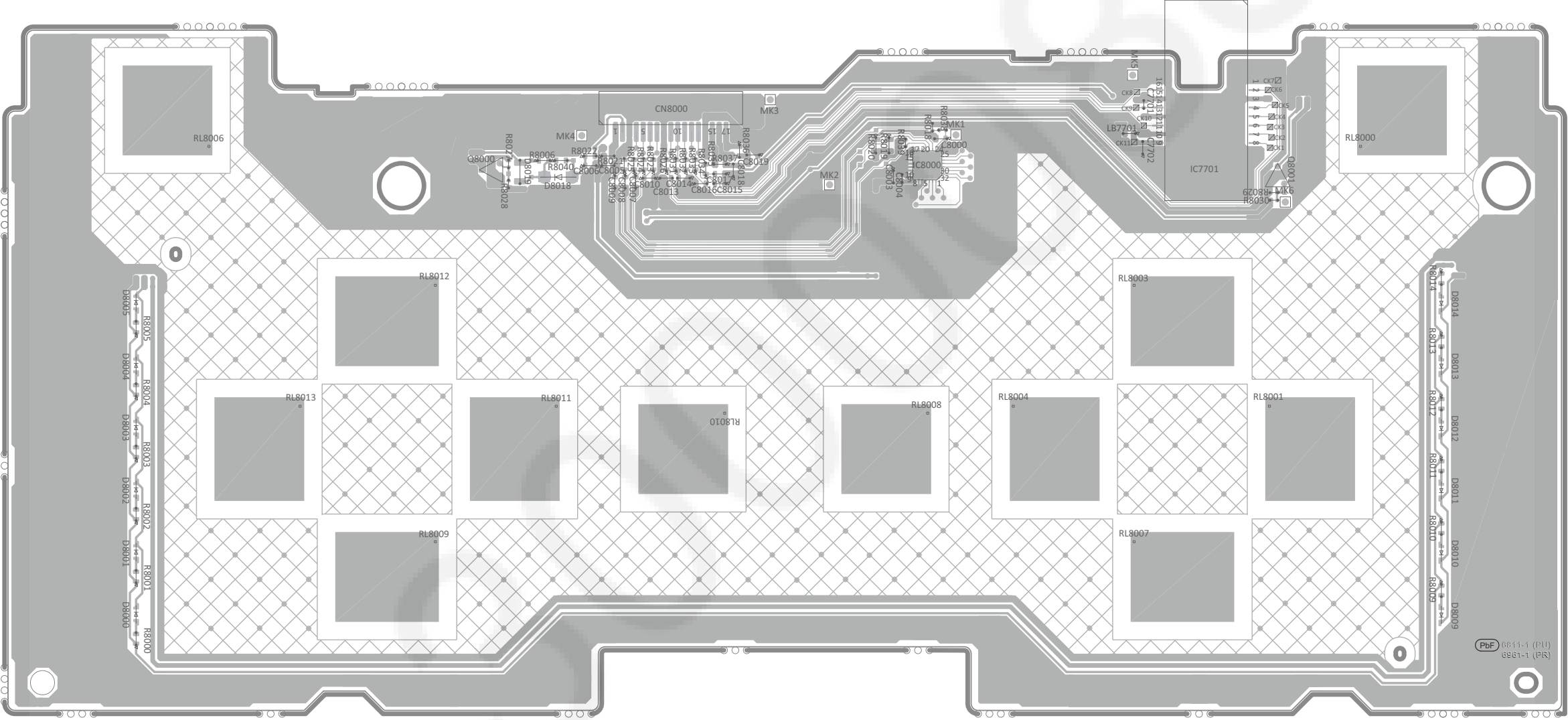
(SIDE B)



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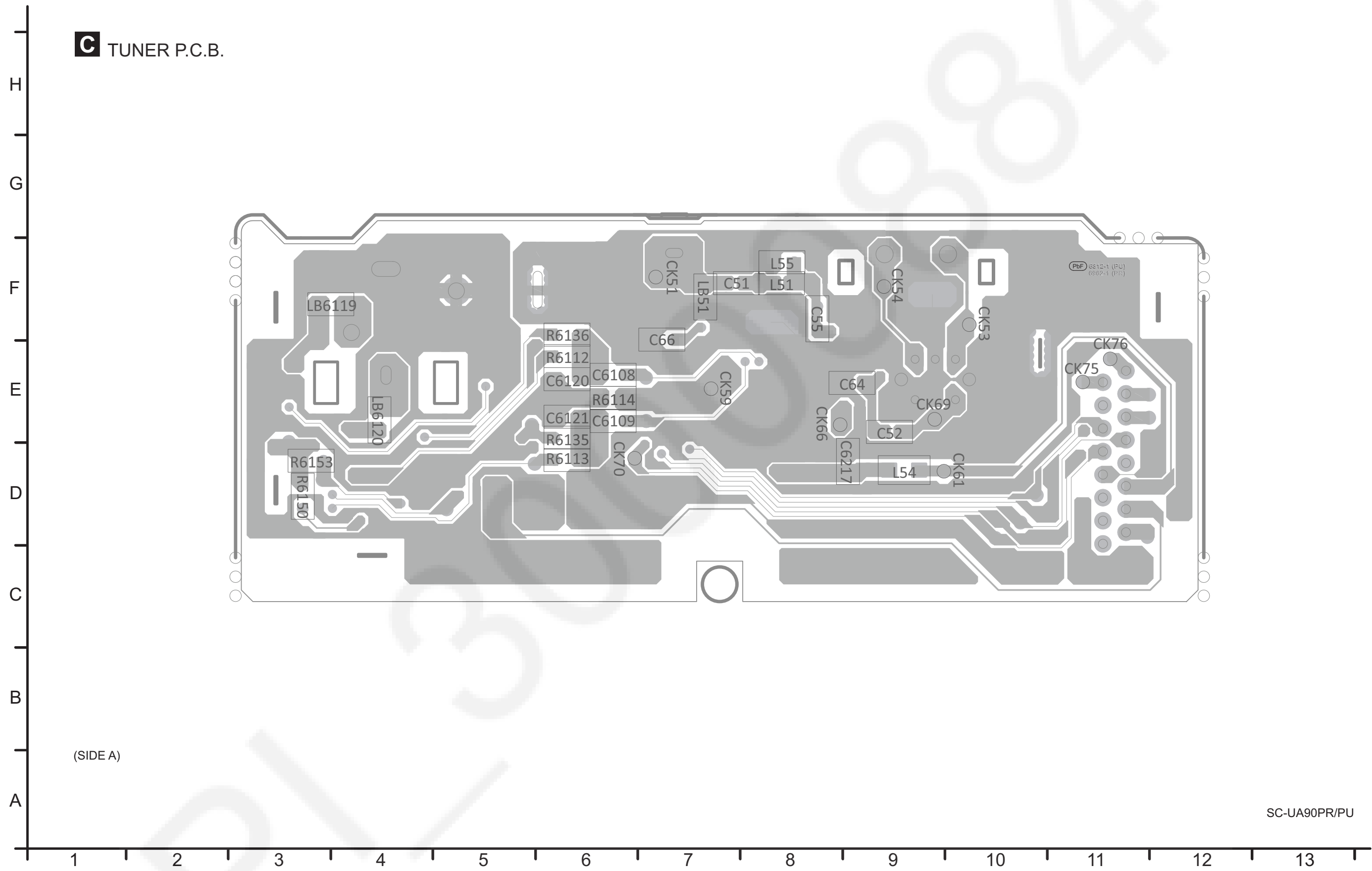
13.3. Touch Sensor P.C.B.

B TOUCH SENSOR P.C.B.



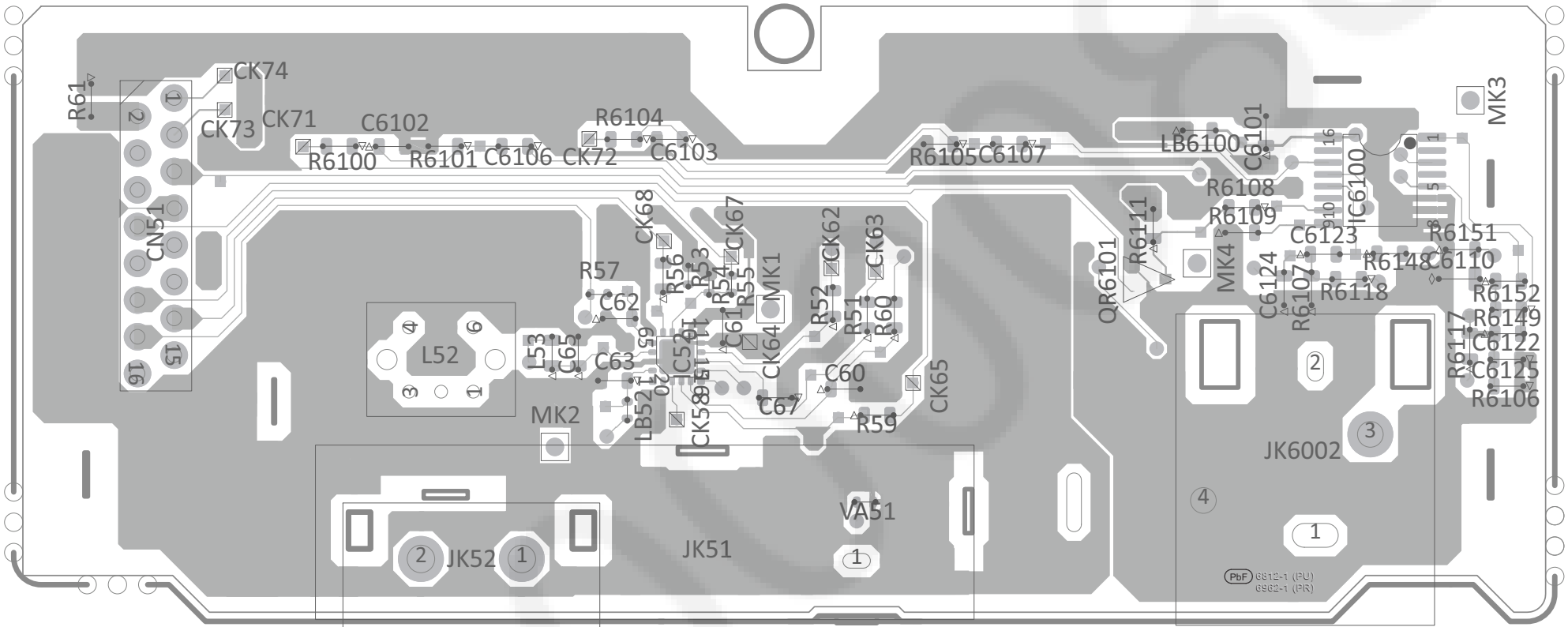
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13.4. Tuner P.C.B. (Side A)



13.5. Tuner P.C.B. (Side B)

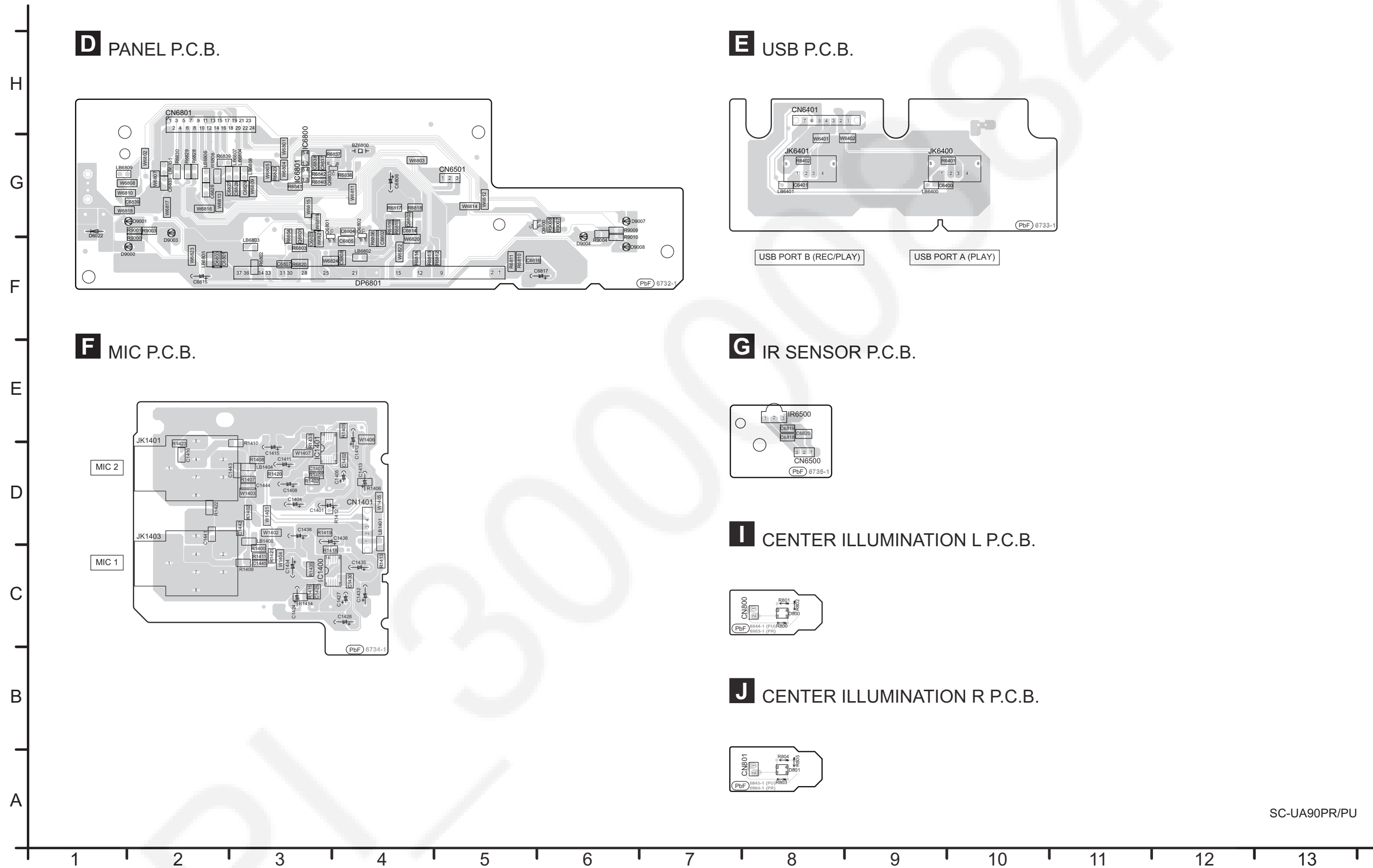
C TUNER P.C.B.



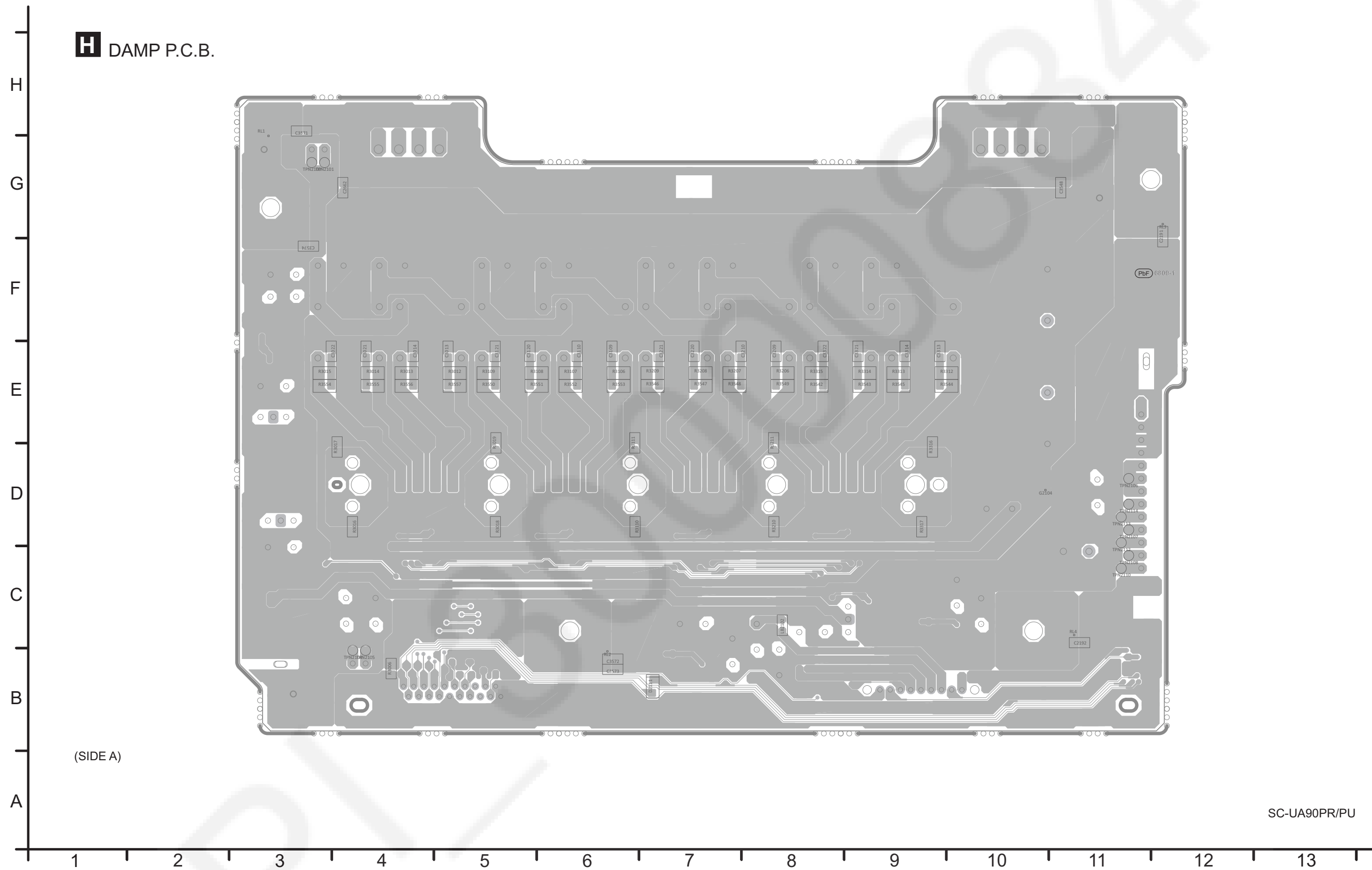
(SIDE B)

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13.6. Panel, USB, Mic, IR Sensor, Center Illumination L and Center Illumination R P.C.B.

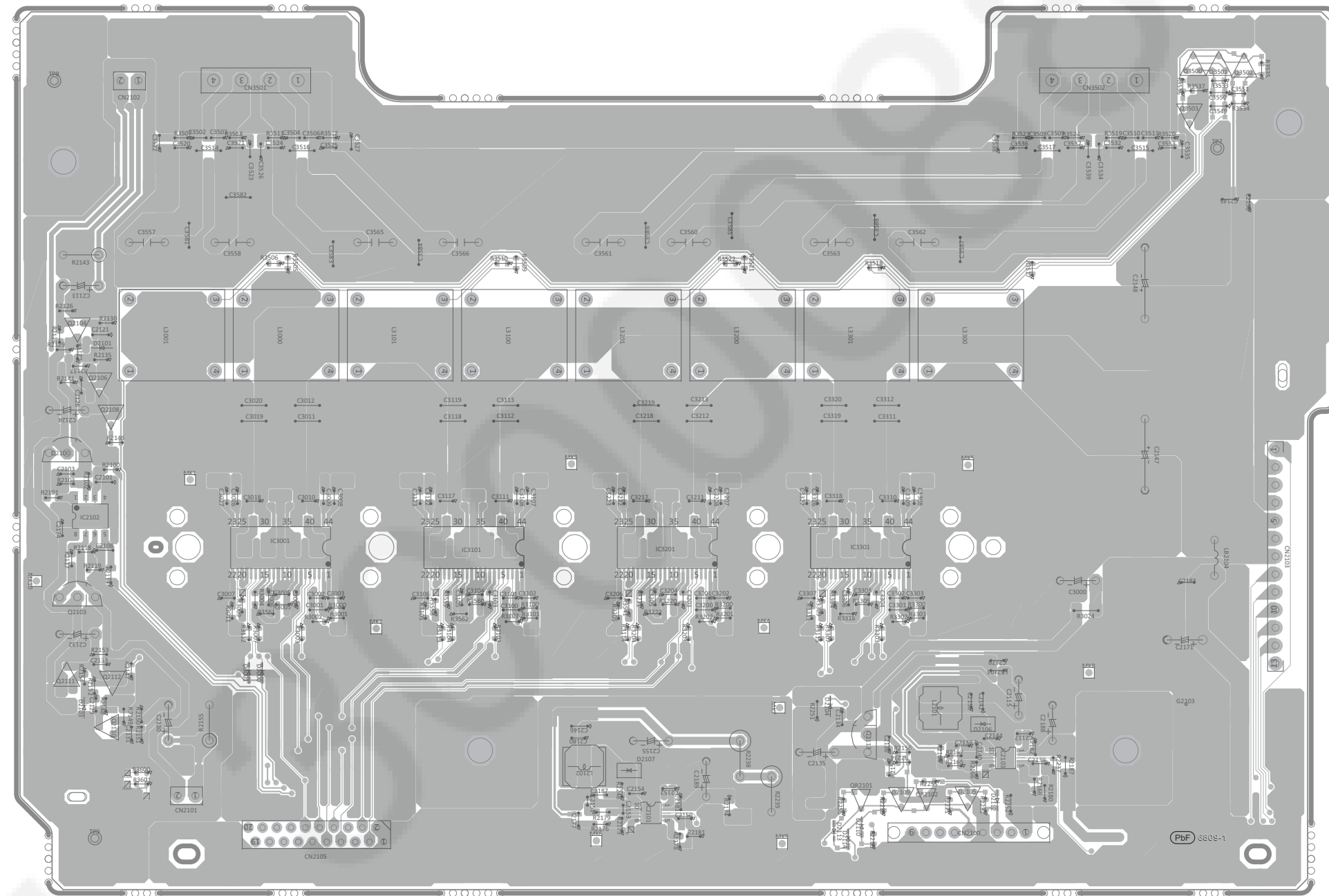


13.7. DAMP P.C.B. (Side A)



A vertical scale with labels A, B, C, D, E, F, G, and H from bottom to top.

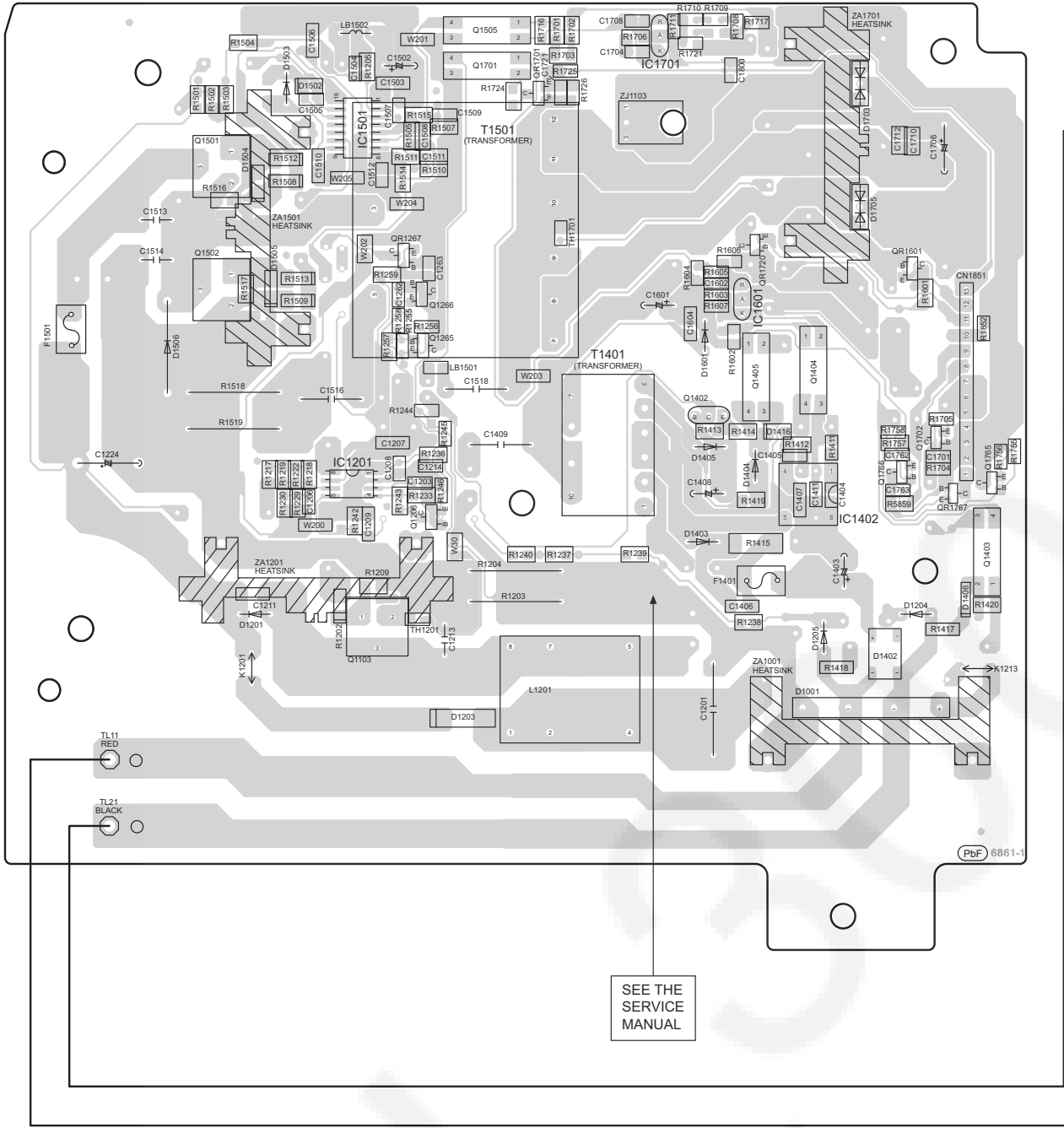
(SIDE B)



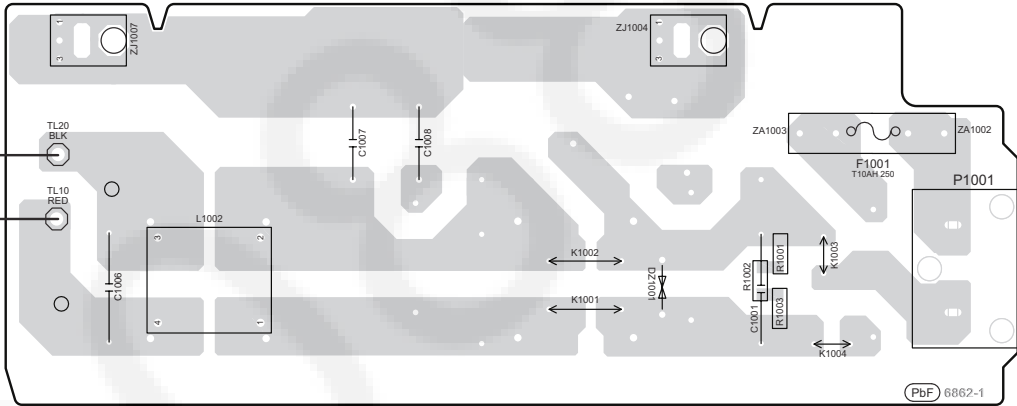
SC-UA90PR/PU

13.9. SMPS, AC Inlet and CD Interface P.C.B.

K SMPS P.C.B.

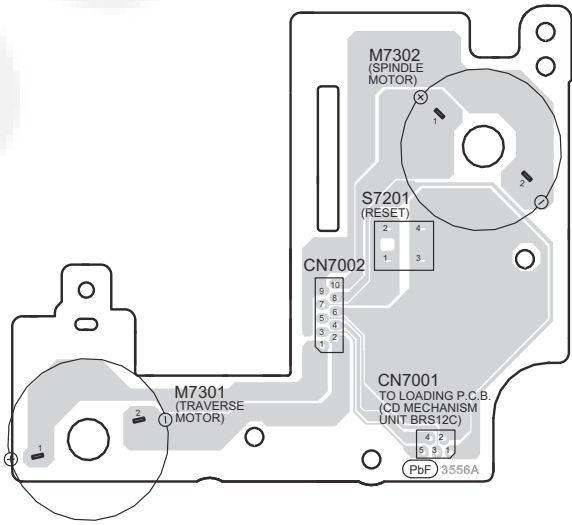


L AC INLET P.C.B.



AC IN ~
110V ~ 240V 50/60Hz (For PU)
220V ~ 240V 50/60Hz (For PR)

M CD INTERFACE P.C.B.



SC-UA90PR/PU

14 Voltage and Waveform Measurement

14.1. Voltage Measurement

Note:

- Indication Voltage Values are in standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

14.1.1. Main P.C.B. (1/2)

REF NO.	IC1001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	3	3.3	3.3	3.3	3.3	1.6	3.3	3.3	3.3	3.3	0	0	3.3	3.3	0	3.3	1.6	0	0
STANDBY	3.3	3	3.3	3.3	3.3	3.3	1.6	3.3	3.3	3.3	3.3	0	0	3.3	3.3	0	3.3	1.6	0	0

REF NO.	IC1001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3	3.3	0.2	2.9	3.3	3.3	0	0	3.3	0	3.3	0	1.6	1.1	1	0.8	0.8	0.8	1.6	0.8
STANDBY	3	3.3	0.2	2.9	3.3	3.3	0	0	3.3	0	3.3	0	1.6	1.1	1	0.8	0.8	0.8	1.6	0.8

REF NO.	IC1001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0.8	0	0	0	1.6	0.7	3.2	1.7	3.2	1.6	1.6	1.6	0	1.6	1.6	0	3.3	0	1.6	1.6
STANDBY	0.8	0	0	0	1.6	0.7	3.2	1.7	3.2	1.6	1.6	1.6	0	1.6	1.6	0	3.3	0	1.6	1.6

REF NO.	IC1001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	1.6	1.6	1.6	1.6	1.6	0	1.7	1.8	1.8	1.8	0	0	3.3	3.3	3.3	3.3	1.6	3.3	3.3	0
STANDBY	1.6	1.6	1.6	1.6	1.6	0	1.7	1.8	1.8	1.8	0	0	3.3	3.3	3.3	3.3	1.6	3.3	3.3	0

REF NO.	IC1001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0.8	1.6	1.6	0.4	0	3.3	1.5	3.3	3.3	0	0	1.6	0	3.3	3.2	3.3	0.2	0.2	0	0.2
STANDBY	0.8	1.6	1.6	0.4	0	3.3	1.5	3.3	3.3	0	0	1.6	0	3.3	3.2	3.3	0.2	0.2	0	0.2

REF NO.	IC1001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	3.1	3.2	0	0.2	3.1	3.1	3.1	0	1.8	1.6	1.6	1.6	3.2	3.1	0	1.5	3.2	3.3	3.3	3.3
STANDBY	3.1	3.2	0	0.2	3.1	3.1	3.1	0	1.8	1.6	1.6	1.6	3.2	3.1	0	1.5	3.2	3.3	3.3	3.3

REF NO.	IC1001																			
MODE	121	122	123	124	125	126	127	128												
PLAY	1.6	3.2	0	1.1	1.5	1.5	1.4	1.5												
STANDBY	1.6	3.2	0	1.1	1.5	1.5	1.4	1.5												

REF NO.	IC1002																			
MODE	1	2	3	4																
PLAY	0	3.3	1.7	3.3																
STANDBY	0	3.3	1.7	3.3																

REF NO.	IC2104																			
MODE	1	2	3																	
PLAY	0	3.3	5.6																	
STANDBY	0	3.3	5.6																	

REF NO.	IC2107																			
MODE	1	2	3	4																
PLAY	3.3	0	1.5	3.3																
STANDBY	3.3	0	1.5	3.3																

SC-UA90PR/PU MAIN P.C.B.

14.1.2. Main P.C.B. (2/2)

REF NO.	IC2108																		
MODE	1	2	3																
PLAY	0	3.3	5																
STANDBY	0	3.3	5																
REF NO.	IC9002																		
MODE	1	2	3	4	5														
PLAY	5	0	3.3	3.3	5														
STANDBY	5	0	3.3	3.3	5														
REF NO.	IC9003																		
MODE	1	2	3	4	5														
PLAY	0	0	3.3	0.1	5														
STANDBY	0	0	3.3	0.1	5														
REF NO.	Q2117				QR1201				QR2500				QR2501				QR9001		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
PLAY	5	5	2.5		0	3.1	0		0	3.3	3.3		0	3.3	3.3		0	0	3.3
STANDBY	5	5	2.5		0	3.1	0		0	3.3	3.3		0	3.3	3.3		0	0	3.3
REF NO.	QR9002				QR9003				QR9004										
MODE	E	C	B		E	C	B		E	C	B								
PLAY	0	0	3.3		0	3.8	0		0	3.8	0								
STANDBY	0	0	3.3		0	3.8	0		0	3.8	0								
SC-UA90PR/PU MAIN P.C.B.																			

SC-UA90PR/PU MAIN P.C.B.

14.1.3. DAMP P.C.B. (1/2)

REF NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	5.6										
STANDBY	10.9	39.5	3.1	2.1	0.5	0	0.8	0.7	0	5.6										
REF NO.	IC2102																			
MODE	1	2	3	4	5	6	7	8												
PLAY	8.6	1.6	1.6	0	1.6	1.6	8.6	15.3												
STANDBY	8.6	1.6	1.6	0	1.6	1.6	8.6	15.3												
REF NO.	IC2103																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	21.3	39.5	3.1	2.1	0.5	0	0.8	0.7	0	15.2										
STANDBY	21.3	39.5	3.1	2.1	0.5	0	0.8	0.7	0	15.2										
REF NO.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
REF NO.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
REF NO.	IC3001																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																
REF NO.	IC3101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
SC-UA90PR/PU DAMP P.C.B.																				

SC-UA90PR/PU DAMP P.C.B.

14.1.4. DAMP P.C.B. (2/2)

REF NO.	IC3101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
REF NO.	IC3101																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																
REF NO.	IC3201/IC3301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
STANDBY	12.2	12.1	1.2	0	1.7	1.7	3.3	0	0	0	0	0	7.8	3.3	0	3.3	3.3	0	0	0
REF NO.	IC3201/IC3301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
STANDBY	3.3	12	30.1	30.1	0	0	19	19	39.5	39.5	39.5	19	0	0	19	39.5	39.5	39.5	19	19
REF NO.	IC3201/IC3301																			
MODE	41	42	43	44																
PLAY	0	0	30.1	30																
STANDBY	0	0	30.1	30																
REF NO.	Q2100				Q2103				Q2104				Q2106				Q2108			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	7.9	15.3	8.5		7.8	15.3	8.4		0.2	11.1	0.2		0	0	0.7		0	3.2	0	
STANDBY	7.9	15.3	8.5		7.8	15.3	8.4		0.2	11.1	0.2		0	0	0.7		0	3.2	0	
REF NO.	Q2110				Q2111				Q2112				Q2113				QR2100			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0.4	5.1	1		0	0	0.3		0	3.2	0		12.5	15.3	13.1		0	3.3	0	
STANDBY	0.4	5.1	1		0	0	0.3		0	3.2	0		12.5	15.3	13.1		0	3.3	0	
REF NO.	QR2102				Q3500				Q3501				Q3502				Q3503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	0	3.3	3.3		19.7	39	19.7		19.7	39	19.7		39.5	0	39.4		0	3.2	0	
STANDBY	0	3.3	3.3		19.7	39	19.7		19.7	39	19.7		39.5	0	39.4		0	3.2	0	

SC-UA90PR/PU DAMP P.C.B.

14.1.5. Panel P.C.B.

REF NO.	IC6800																		
MODE	1	2	3	4	5														
PLAY	5.3	5.3	0	0	5.3														
STANDBY	5.3	5.3	0	0	5.3														

REF NO.	IC6801																		
MODE	1	2	3	4	5														
PLAY	4.8	0	0	5.3	5.3														
STANDBY	4.8	0	0	5.3	5.3														

REF NO.	Q6801							Q6802											
MODE	1	2	3	4	5	6		1	2	3	4	5	6						
PLAY	6.5	6.5	0.1	6.5	6.5	12.6		0	0.7	31.5	31.5	30.8	0.1						
STANDBY	6.5	6.5	0.1	6.5	6.5	12.6		0	0.7	31.5	31.5	30.8	0.1						

REF NO.	Q6803				Q9000														
MODE	E	C	B		E	C	B												
PLAY	0	5.3	0		0	0	0.7												
STANDBY	0	5.3	0		0	0	0.7												

SC-UA90PR/PU PANEL P.C.B.

14.1.6. Touch Sensor P.C.B.

REF NO.	IC7701																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	0	3.3	0	3.3	0	0	0	0	5	0	0	0	3.3	0	0	0				
STANDBY	0	3.3	0	3.3	0	0	0	0	5	0	0	0	3.3	0	0	0				

REF NO.	IC8000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	3.3	0	0	0	0	0	0	0	0	0	0	0	0

REF NO.	IC8000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
PLAY	3.3	3.3	0	0	0	0	0	0	0	0	0	0								
STANDBY	3.3	3.3	0	0	0	0	0	0	0	0	0	0								

REF NO.	Q8000				Q8001															
MODE	E	C	B		E	C	B													
PLAY	0	0.2	0.8		0	0.2	0.8													
STANDBY	0	0.2	0.8		0	0.2	0.8													

SC-UA90PR/PU TOUCH SENSOR P.C.B.

14.1.7. MIC P.C.B.

REF NO.	IC1400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6	6	6	6	6	6	6	0	11.9	5.8	0.2	0	11.9	5.8						
STANDBY	6	6	6	6	6	6	6	0	11.9	5.8	0.2	0	11.9	5.8						

REF NO.	IC1401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6	6	6	6	6	6	6	0	11.9	5.8	0.2	0	11.9	5.8						
STANDBY	6	6	6	6	6	6	6	0	11.9	5.8	0.2	0	11.9	5.8						

SC-UA90PR/PU MIC P.C.B.

14.1.8. SMPS P.C.B.

REF NO.	IC1201															
MODE	1	2	3	4	5	6	7	8								
PLAY	0	0	0	0	0	196.8	17.6	0								
STANDBY	0	0	0	0	0	196.8	17.6	0								
REF NO.	IC1402															
MODE	1	2	3	4	5	6	7	8								
PLAY	6	1	2.4	17.4	324	-	0	0								
STANDBY	6	1	2.4	17.4	324	-	0	0								
REF NO.	IC1501															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PLAY	17.6	5.5	2.2	2.5	4.2	0.9	0	0	0	10.2	4.4	0	0	206.4	196.7	204.8
STANDBY	17.6	5.5	2.2	2.5	4.2	0.9	0	0	0	10.2	4.4	0	0	206.4	196.7	204.8
REF NO.	IC1601															
MODE	K	A	R													
PLAY	2.3	0	2.4													
STANDBY	2.3	0	2.4													
REF NO.	IC1701															
MODE	K	A	R													
PLAY	-28	-40.1	-36.9													
STANDBY	-28	-40.1	-36.9													
REF NO.	Q1103				Q1206				Q1265				Q1266			
MODE	E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	196.8	196.8	0		0	0	17.6		17.6	0	17.6		0	17.6	17.6	
STANDBY	196.8	196.8	0		0	0	17.6		17.6	0	17.6		0	17.6	17.6	
REF NO.	Q1403				Q1404				Q1405				Q1501			
MODE	1	2	3	4	1	2	3	4	1	2	3	4	E	C	B	
PLAY	0	0	0.3	0	0	2.3	1.0	6.0	0	0.1	0	16.9	196.8	400	204	
STANDBY	0	0	0.3	0	0	2.3	1.0	6.0	0	0.1	0	16.9	196.8	400	204	
REF NO.	Q1502				Q1505				Q1701				Q1702			
MODE	E	C	B		1	2	3	4	1	2	3	4	E	C	B	
PLAY	0	196.8	4.2		-28.0	-28.0	0	4.2	0	0	0	17.6	0	1.7	0.3	
STANDBY	0	196.8	4.2		-28.0	-28.0	0	4.2	0	0	0	17.6	0	1.7	0.3	
REF NO.	Q1765				Q1766				QR1267				QR1601			
MODE	E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	5.0	-40.1	5.0		-40.1	5.0	5.0		0	5.5	17.6		0	0.1	3.1	
STANDBY	5.0	-40.1	5.0		-40.1	5.0	5.0		0	5.5	17.6		0	0.1	3.1	
REF NO.	QR1720				QR1767											
MODE	E	C	B		E	C	B									
PLAY	-40.1	-36.9	0		-40.1	3.3	5.0									
STANDBY	-40.1	-36.9	0		-40.1	3.3	5.0									

SC-UA90PR/PU SMPS P.C.B.

15 Exploded View and Replacement Parts List

15.1. Electrical Replacement Part List

Important Safety Notice

Components identified by $\triangle$ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- Capacitor value are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCJM unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by JAPAN.

E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATIC SENSITIVE (ES) DEVICES" section.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
	PCB1	REP4945B	CD INTERFACE P.C.B.	1	(RTL)
			CONNECTORS		
	CN7001	K1MY05BA0565	5P CONNECTOR	1	
	CN7002	K1MN10B00016	10P CONNECTOR	1	
			SWITCHES		
	S7201	K011BA000158	SW	1	
			PRINTED CIRCUIT BOARDS		
	PCB2	TZSM12009	MAIN P.C.B. WITH DATA	1	UA90PU-K
	PCB2	TZSM12010	MAIN P.C.B. WITH DATA	1	UA90PR-K
			CAPACITORS		
	C1001	F1H1C104A178	0.1 μ F 16V	1	
	C1002	F1H1C104A178	0.1 μ F 16V	1	
	C1003	F1G1C104A146	0.1 μ F 16V	1	
	C1004	F1H1C104A178	0.1 μ F 16V	1	
	C1005	F1H1C104A178	0.1 μ F 16V	1	
	C1006	F1H1C104A178	0.1 μ F 16V	1	
	C1007	F1G1C104A146	0.1 μ F 16V	1	
	C1008	F1H1C104A178	0.1 μ F 16V	1	
	C1009	F1G1C104A146	0.1 μ F 16V	1	
	C1010	F1H1H104B047	0.1 μ F 50V	1	
	C1011	F1H1H104B047	0.1 μ F 50V	1	
	C1012	F1H1C224A178	0.22 μ F 16V	1	
	C1013	F1H0J335A005	3.3 μ F 6.3V	1	
	C1014	F2A1C101A243	100 μ F 16V	1	
	C1015	F1H1H104B047	0.1 μ F 50V	1	
	C1016	F1H1H681B052	680pF 50V	1	
	C1017	F2A0J331B035	330 μ F 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1018	F1H1H104B047	0.1 μ F 50V	1	
	C1019	F1H1H104B047	0.1 μ F 50V	1	
	C1020	F1H0J1060006	10 μ F 6.3V	1	
	C1021	F1H0J1060006	10 μ F 6.3V	1	
	C1022	F1H0J1060006	10 μ F 6.3V	1	
	C1023	F1H0J1060006	10 μ F 6.3V	1	
	C1024	F1H0J1060006	10 μ F 6.3V	1	
	C1025	F1H0J1060006	10 μ F 6.3V	1	
	C1026	F1H1H103B047	0.01 μ F 50V	1	
	C1028	F1H1H220B052	22pF 50V	1	
	C1029	F1H1H240A831	24pF 50V	1	
	C1030	F1G1H101A834	100pF 50V	1	
	C1031	F1H1H102B052	1000pF 50V	1	
	C1032	F1H1H102B052	1000pF 50V	1	
	C1033	F1H1H102B052	1000pF 50V	1	
	C1034	F1H1H102B052	1000pF 50V	1	
	C1035	F1H1H102A831	1000pF 50V	1	
	C1036	F1H1H102A831	1000pF 50V	1	
	C1040	F1G1C104A146	0.1 μ F 16V	1	
	C1041	F1G1C104A146	0.1 μ F 16V	1	
	C1042	F1H1C224A178	0.22 μ F 16V	1	
	C1043	F1H1H223B047	0.022 μ F 50V	1	
	C1046	F1H1H102A831	1000pF 50V	1	
	C1048	F1H1C474A178	0.47 μ F 16V	1	
	C1049	F1H1C104A178	0.1 μ F 16V	1	
	C1050	F1H1C104A178	0.1 μ F 16V	1	
	C1051	F1H1H222B047	2200pF 50V	1	
	C1101	F1H1H103B047	0.01 μ F 50V	1	
	C1102	F1G1C104A146	0.1 μ F 16V	1	
	C1103	F1H1H104B047	0.1 μ F 50V	1	
	C1201	F1H1H104B047	0.1 μ F 50V	1	
	C1202	F1H1H104B047	0.1 μ F 50V	1	
	C1203	F1H1H104B047	0.1 μ F 50V	1	
	C1204	F1H1H104B047	0.1 μ F 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1205	F1H1H104B047	0.1uF 50V	1	
	C1206	F1H1H104B047	0.1uF 50V	1	
	C2001	F1G1C104A146	0.1uF 16V	1	
	C2002	F1G1C104A146	0.1uF 16V	1	
	C2003	F1G1C104A146	0.1uF 16V	1	
	C2004	F1H0J4750004	4.7uF 6.3V	1	
	C2005	F1G1C104A146	0.1uF 16V	1	
	C2006	F1G1C104A146	0.1uF 16V	1	
	C2007	F1G1C104A146	0.1uF 16V	1	
	C2008	F1G1C104A146	0.1uF 16V	1	
	C2009	F1H0J1060006	10uF 6.3V	1	
	C2010	F1H1H105B027	1uF 50V	1	
	C2011	F1H1H105B027	1uF 50V	1	
	C2012	F1G1C104A146	0.1uF 16V	1	
	C2013	F1G1C104A146	0.1uF 16V	1	
	C2107	F1H1H104B047	0.1uF 50V	1	
	C2108	F1H1H104B047	0.1uF 50V	1	
	C2113	F1H1H104B047	0.1uF 50V	1	
	C2117	F1H1H104B047	0.1uF 50V	1	
	C2124	F1H1H104B047	0.1uF 50V	1	
	C2125	F1H1H104B047	0.1uF 50V	1	
	C2129	F1H1H104B047	0.1uF 50V	1	
	C2130	F1H1H104B047	0.1uF 50V	1	
	C2131	F1H1H104B047	0.1uF 50V	1	
	C2133	F1H1H104B047	0.1uF 50V	1	
	C2134	F1H1H104B047	0.1uF 50V	1	
	C2135	F1H1H104B047	0.1uF 50V	1	
	C2136	F1H1H104B047	0.1uF 50V	1	
	C2137	F1H1H104B047	0.1uF 50V	1	
	C2138	F1H1H104B047	0.1uF 50V	1	
	C2139	F1H1H104B047	0.1uF 50V	1	
	C2141	F1H1H104B047	0.1uF 50V	1	
	C2150	F1H1H104B047	0.1uF 50V	1	
	C2300	F1J1A106A024	10uF 10V	1	
	C2301	F1J1C1060006	10uF 16V	1	
	C2302	F2A0J471A247	470uF 6.3V	1	
	C2304	F1H1A105A113	1uF 10V	1	
	C2305	F1H1A105A113	1uF 10V	1	
	C2307	F1J1A106A024	10uF 10V	1	
	C2308	F1J1C1060006	10uF 16V	1	
	C2309	F2A0J471A247	470uF 6.3V	1	
	C2310	F1H1H104B047	0.1uF 50V	1	
	C2311	F1H1H104B047	0.1uF 50V	1	
	C2312	F1H1H104B047	0.1uF 50V	1	
	C2313	F1H1H104B047	0.1uF 50V	1	
	C2314	F1H1H104B047	0.1uF 50V	1	
	C2315	F2A1C221B456	220uF 16V	1	
	C2316	F1H1H104B047	0.1uF 50V	1	
	C2317	F1H1H104B047	0.1uF 50V	1	
	C2508	F1H1H104B047	0.1uF 50V	1	
	C2509	F1H1H102A219	1000pF 50V	1	
	C2510	F1H1H102A219	1000pF 50V	1	
	C2511	F1H1H102A219	1000pF 50V	1	
	C2512	F1H1H104B047	0.1uF 50V	1	
	C2513	F1H1H104B047	0.1uF 50V	1	
	C2514	F1H1H104B047	0.1uF 50V	1	
	C2515	F1H1H102A831	1000pF 50V	1	
	C2516	F1H1H102A831	1000pF 50V	1	
	C2517	F1H1H104B047	0.1uF 50V	1	
	C2519	F1H1H104B047	0.1uF 50V	1	
	C2520	F1H1H104B047	0.1uF 50V	1	
	C2522	F1H1H104B047	0.1uF 50V	1	
	C2525	F1H1H102A219	1000pF 50V	1	
	C2529	F1H1H102A219	1000pF 50V	1	
	C2530	F1H1H102A219	1000pF 50V	1	
	C2531	F1H1H102A219	1000pF 50V	1	
	C2532	F1H1H102A219	1000pF 50V	1	
	C2543	F1H1H102A219	1000pF 50V	1	
	C2544	F1H1H102A219	1000pF 50V	1	
	C2545	F1H1H102A219	1000pF 50V	1	
	C2552	F1H1H104B047	0.1uF 50V	1	
	C2559	F1H1H103B047	0.01uF 50V	1	
	C2560	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2562	F1H1H104B047	0.1uF 50V	1	
	C2564	F1H1H104B047	0.1uF 50V	1	
	C2566	F1J1E106A253	10uF 25V	1	
	C2567	F1H1H104B047	0.1uF 50V	1	
	C2568	F1H1H104B047	0.1uF 50V	1	
	C2569	F1H1H104B047	0.1uF 50V	1	
	C2570	F1H1H104B047	0.1uF 50V	1	
	C2575	F1H1H104B047	0.1uF 50V	1	
	C2576	F1H1H104B047	0.1uF 50V	1	
	C2577	F1H1H104B047	0.1uF 50V	1	
	C2578	F1H1H104B047	0.1uF 50V	1	
	C2580	F1H1H104B047	0.1uF 50V	1	
	C2581	F1H1H104B047	0.1uF 50V	1	
	C2582	F1H1H470B052	47pF 50V	1	
	C3501	F2A0J101A208	100uF 6.3V	1	
	C3503	F1G1A1040006	0.1uF 10V	1	
	C3504	F1G1A1040006	0.1uF 10V	1	
	C3505	F1G1A1040006	0.1uF 10V	1	
	C3508	F1G1A1040006	0.1uF 10V	1	
	C3509	F1G1A1040006	0.1uF 10V	1	
	C4002	F1H0J105A051	1uF 6.3V	1	
	C4003	F1H0J105A051	1uF 6.3V	1	
	C4004	F1H1C474A178	0.47uF 16V	1	
	C4005	F1H1H120B052	12pF 50V	1	
	C4006	F1H1H120B052	12pF 50V	1	
	C4007	F1H0J105A051	1uF 6.3V	1	
	C4008	F1H0J105A051	1uF 6.3V	1	
	C4009	F1H0J105A051	1uF 6.3V	1	
	C4010	F1H1H102B047	1000pF 50V	1	
	C4011	F1H1H102B047	1000pF 50V	1	
	C4014	F1H0J1060012	10uF 6.3V	1	
	C4015	F1H0J1060012	10uF 6.3V	1	
	C4016	F1H0J1060012	10uF 6.3V	1	
	C4017	F1H0J1060012	10uF 6.3V	1	
	C4018	F2A1C470B454	47uF 16V	1	
	C4019	F2A1C220A243	22uF 16V	1	
	C4020	F2A1C220A243	22uF 16V	1	
	C4021	F2A1E221B422	220uF 25V	1	
	C4022	F1H0J1060003	10uF 6.3V	1	
	C4023	F1H1H103B047	0.01uF 50V	1	
	C4047	F1H1H101B052	100pF 50V	1	
	C4048	F1H1H101B052	100pF 50V	1	
	C4049	F1H1H101B052	100pF 50V	1	
	C4050	F1H1H104B047	0.1uF 50V	1	
	C4051	F1H1H104B047	0.1uF 50V	1	
	C4052	F1H1H104B047	0.1uF 50V	1	
	C4053	F1H1H104B047	0.1uF 50V	1	
	C4054	F1H1H104B047	0.1uF 50V	1	
	C4055	F1H1H104B047	0.1uF 50V	1	
	C4056	F1H1H104B047	0.1uF 50V	1	
	C4057	F1H1H104B047	0.1uF 50V	1	
	C4058	F1H1H104B047	0.1uF 50V	1	
	C4200	F1H1H104B047	0.1uF 50V	1	
	C4201	F2A1C2200068	22uF 16V	1	
	C4202	F2A1C2200068	22uF 16V	1	
	C4203	F1H1H472A219	4700pF 50V	1	
	C4204	F1H1H104B047	0.1uF 50V	1	
	C4205	F1H1H683A783	0.068uF 50V	1	
	C4206	F1H1H104B047	0.1uF 50V	1	
	C4207	F1H1H104B047	0.1uF 50V	1	
	C4209	F1H1H103B047	0.01uF 50V	1	
	C4301	F1J1A106A043	10uF 10V	1	
	C4302	F1H1H100B052	10pF 50V	1	
	C4303	F1H1H100B052	10pF 50V	1	
	C4304	F1H1H104B047	0.1uF 50V	1	
	C4305	F1H1H104B047	0.1uF 50V	1	
	C4306	F1H1H104B047	0.1uF 50V	1	
	C4307	F1H1H104B047	0.1uF 50V	1	
	C4309	F1H1H104B047	0.1uF 50V	1	
	C5001	F1J1C1060006	10uF 16V	1	
	C5002	F1H1H103B047	0.01uF 50V	1	
	C5003	F1J1C1060006	10uF 16V	1	
	C5004	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5007	F1H1H222B047	2200pF 50V	1	
	C5008	F1H1H222B047	2200pF 50V	1	
	C5009	F1J1C1060006	10uF 16V	1	
	C5010	F1H1H103B047	0.01uF 50V	1	
	C5011	F1H1H104B047	0.1uF 50V	1	
	C5012	F1H1H102B047	1000pF 50V	1	
	C5013	F1H1H100B051	10pF 50V	1	
	C5014	F1H1H100B051	10pF 50V	1	
	C5015	F1H1H100B051	10pF 50V	1	
	C5016	F1H1H100B051	10pF 50V	1	
	C5018	F1H1H103B047	0.01uF 50V	1	
	C5019	F2A1A1010072	100uF 10V	1	
	C5020	F2A1A1010132	100uF 10V	1	
	C5021	F2A1A1010132	100uF 10V	1	
	C5022	F1H1H680B052	68pF 50V	1	
	C5023	F1H1H101B052	100pF 50V	1	
	C5024	F1H1H101B052	100pF 50V	1	
	C5025	F1H1H101B052	100pF 50V	1	
	C5026	F1H1H101B052	100pF 50V	1	
	C5027	F1H1H101B052	100pF 50V	1	
	C5028	F1H1H101B052	100pF 50V	1	
	C5029	F1H1H101B052	100pF 50V	1	
	C5030	F1H1H101B052	100pF 50V	1	
	C5031	F1H1H101B052	100pF 50V	1	
	C5032	F1H1H102B047	1000pF 50V	1	
	C5033	F1H1H102B047	1000pF 50V	1	
	C5034	F1H1H102B047	1000pF 50V	1	
	C5035	F1H1H102B047	1000pF 50V	1	
	C9006	F1H1C104A178	0.1uF 16V	1	
	C9008	F1H1C104A178	0.1uF 16V	1	
	C9009	F1H1C104A178	0.1uF 16V	1	
	C9010	F1H1C104A178	0.1uF 16V	1	
	C9011	F1H1H104B047	0.1uF 50V	1	
			CONNECTORS		
	CN2500	K1MN24AA0046	CONNECTOR	1	
	CN2501	K1MN17A00040	CONNECTOR	1	
	CN2502	K1KA04AA0193	CONNECTOR	1	
	CN2503	K1MN20A00013	CONNECTOR	1	
	CN2504	K1KA09AA0193	CONNECTOR	1	
	CN2505	K1KA07AA0193	CONNECTOR	1	
	CN2507	K1KA04AA0193	CONNECTOR	1	
	CN2508	K1MN16A00072	CONNECTOR	1	
	CN2509	K1KA03AA0193	CONNECTOR	1	
	CN2510	K1KA03AA0193	CONNECTOR	1	
			DIODES		
	D2300	DA2J10100L	DIODE	1	
	D5001	DA2J10100L	DIODE	1	
	D9001	B0ECKM000008	DIODE	1	
			INTEGRATED CIRCUITS		
	IC1001	C1AB00004625	IC	1	(E.S.D)
	IC1002	C0EBY0000664	IC	1	(E.S.D)
	IC1003	TZQA01AN2L	IC	1	(E.S.D)
	IC1004	TZQA02AM5L	IC	1	(E.S.D)
	IC1005	MFI337S3959	IC	1	(E.S.D)
	IC1201	C0ZBZ0002175	IC	1	(E.S.D)
	IC2001	TZSM12009	MAIN P.C.B. WITH DATA	1	(E.S.D) 90PU-K
	IC2001	TZSM12010	MAIN P.C.B. WITH DATA	1	(E.S.D) 90PR-K
	IC2104	C0DBGYY03909	IC	1	(E.S.D)
	IC2107	C0DBGYY00911	IC	1	(E.S.D)
	IC2108	C0DBGYY03909	IC	1	(E.S.D)
	IC3501	C0JBAZ002926	IC	1	(E.S.D)
	IC3502	C0JBAR000699	IC	1	(E.S.D)
	IC3504	C0JBAF000380	IC	1	(E.S.D)
	IC3505	C0JBAF000380	IC	1	(E.S.D)
	IC4001	VUEALLPT090	IC	1	(E.S.D)
	IC4200	C1AB00004431	IC	1	(E.S.D)
	IC4201	C0JBAA000419	IC	1	(E.S.D)
	IC5001	C0GBY0000213	IC	1	(E.S.D)
	IC9002	C0DBZYY00716	IC	1	(E.S.D)
	IC9003	C0DBZYY00716	IC	1	(E.S.D)
	JK3003	B3RAB0000118	JK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			INDUCTORS		
	LB1001	J0JYC0000656	INDUCTOR	1	
	LB1002	J0JYC0000656	INDUCTOR	1	
	LB1003	J0JYC0000656	INDUCTOR	1	
	LB1004	J0JYC0000656	INDUCTOR	1	
	LB1005	D0GB100JA065	10 1/10W	1	
	LB1006	J0JYC0000656	INDUCTOR	1	
	LB1007	J0JYC0000656	INDUCTOR	1	
	LB1018	J0JCC0000286	INDUCTOR	1	
	LB1019	J0JCC0000287	INDUCTOR	1	
	LB1020	J0JCC0000287	INDUCTOR	1	
	LB1021	J0JCC0000287	INDUCTOR	1	
	LB1022	J0JCC0000287	INDUCTOR	1	
	LB1023	J0JCC0000287	INDUCTOR	1	
	LB1025	J0JCC0000286	INDUCTOR	1	
	LB1026	J0JCC0000286	INDUCTOR	1	
	LB1027	J0JCC0000286	INDUCTOR	1	
	LB1034	J0JYC0000656	INDUCTOR	1	
	LB1040	J0JCC0000286	INDUCTOR	1	
	LB1043	J0JYC0000656	INDUCTOR	1	
	LB1044	J0JYC0000656	INDUCTOR	1	
	LB1046	J0JCC0000286	INDUCTOR	1	
	LB1047	J0JCC0000286	INDUCTOR	1	
	LB1049	J0JCC0000286	INDUCTOR	1	
	LB1101	J0JYC0000656	INDUCTOR	1	
	LB1201	J0JYC0000656	INDUCTOR	1	
	LB2001	J0JYC0000656	INDUCTOR	1	
	LB2002	J0JYC0000656	INDUCTOR	1	
	LB2500	J0JYC0000656	INDUCTOR	1	
	LB2501	J0JYC0000656	INDUCTOR	1	
	LB2502	J0JYC0000656	INDUCTOR	1	
	LB2503	J0JYC0000656	INDUCTOR	1	
	LB2504	J0JYC0000656	INDUCTOR	1	
	LB2505	J0JYC0000656	INDUCTOR	1	
	LB2506	J0JGC0000063	INDUCTOR	1	
	LB2507	J0JGC0000063	INDUCTOR	1	
	LB2510	J0JYC0000656	INDUCTOR	1	
	LB2511	G1C100KA0101	INDUCTOR	1	
	LB2512	J0JYC0000656	INDUCTOR	1	
	LB2513	J0JYC0000656	INDUCTOR	1	
	LB2514	J0JYC0000656	INDUCTOR	1	
	LB2515	J0JYC0000656	INDUCTOR	1	
	LB3501	J0JHC0000078	INDUCTOR	1	
	LB3502	J0JHC0000078	INDUCTOR	1	
	LB3503	J0JHC0000078	INDUCTOR	1	
	LB3504	J0JHC0000078	INDUCTOR	1	
	LB4001	J0JYC0000656	INDUCTOR	1	
	LB4002	J0JYC0000656	INDUCTOR	1	
	LB4003	J0JYC0000656	INDUCTOR	1	
	LB4201	J0JHC0000078	INDUCTOR	1	
	LB5001	J0JBC0000010	INDUCTOR	1	
	LB5002	G1C100KA0101	INDUCTOR	1	
	LB5003	J0JHC0000045	INDUCTOR	1	
	LB5004	J0JHC0000045	INDUCTOR	1	
	LB5005	J0JBC0000010	INDUCTOR	1	
	LB5006	J0JYC0000656	INDUCTOR	1	
	LB5007	J0JYC0000656	INDUCTOR	1	
	LB5008	J0JYC0000656	INDUCTOR	1	
	LB5009	J0JYC0000656	INDUCTOR	1	
	LB5010	J0JYC0000656	INDUCTOR	1	
	LB5011	J0JYC0000656	INDUCTOR	1	
	LB5012	J0JYC0000656	INDUCTOR	1	
	LB5013	J0JYC0000656	INDUCTOR	1	
	LB5014	J0JYC0000656	INDUCTOR	1	
	LB5015	J0JYC0000656	INDUCTOR	1	
	LB5016	J0JBC0000010	INDUCTOR	1	
	LB9001	D0GBR00J0004	0 1/10W	1	
	LB9002	D0GBR00J0004	0 1/10W	1	
			CONNECTORS		
	P5001	K1MN10AA0046	CONNECTOR	1	
	P5002	K1MY24A00001	CONNECTOR	1	
			TRANSISTORS		
	Q2117	B1ADGF000010	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q5001	B1ADCF000001	TRANSISTOR	1	
	QR1201	B1GBCFJJ0040	TRANSISTOR	1	
	QR1202	B1GBCFJJ0040	TRANSISTOR	1	
	QR2102	B1GBCFJJ0040	TRANSISTOR	1	
	QR2500	B1GBCFGN0018	TRANSISTOR	1	
	QR2501	B1GBCFGN0018	TRANSISTOR	1	
	QR2502	B1ABGC000005	TRANSISTOR	1	
	QR2503	B1ABGC000005	TRANSISTOR	1	
	QR4201	B1GBCFJJ0041	TRANSISTOR	1	
	QR9001	B1GBCFGN0016	TRANSISTOR	1	
	QR9002	B1GBCFGN0016	TRANSISTOR	1	
	QR9003	B1GBCFGN0016	TRANSISTOR	1	
	QR9004	B1GBCFGN0016	TRANSISTOR	1	
			RESISTORS		
	R1001	D0GB471JA065	470 1/10W	1	
	R1004	D0GBR00J0004	0 1/10W	1	
	R1011	D0GA221JA023	220 1/16W	1	
	R1012	D0GB221JA065	220 1/10W	1	
	R1013	D0GA221JA023	220 1/16W	1	
	R1014	D0GB221JA065	220 1/10W	1	
	R1015	D0GB102JA065	1K 1/10W	1	
	R1016	D0GA101JA023	100 1/16W	1	
	R1017	D0GA101JA023	100 1/16W	1	
	R1018	D0GA101JA023	100 1/16W	1	
	R1021	D0GB101JA065	100 1/10W	1	
	R1022	D0GA221JA023	220 1/16W	1	
	R1023	D0GB221JA065	220 1/10W	1	
	R1024	D0GBR00J0004	0 1/10W	1	
	R1026	D0GB224JA065	220K 1/10W	1	
	R1027	D0GB106JA065	10M 1/10W	1	
	R1030	D0GBR00J0004	0 1/10W	1	
	R1031	D0GB103JA065	10K 1/10W	1	
	R1032	D0GA103JA023	10K 1/16W	1	
	R1033	D0GB472JA065	4.7K 1/10W	1	UA90PU-K
	R1033	D0GB682JA065	6.8K 1/10W	1	UA90PR-K
	R1035	D0GA103JA023	10K 1/16W	1	
	R1036	D0GB103JA065	10K 1/10W	1	
	R1037	D0GA103JA023	10K 1/16W	1	
	R1038	D0GA103JA023	10K 1/16W	1	
	R1039	D0GB222JA065	2.2K 1/10W	1	
	R1040	D0GB222JA065	2.2K 1/10W	1	
	R1041	D0GA101JA023	100 1/16W	1	
	R1042	D0GA103JA023	10K 1/16W	1	
	R1043	D0GA101JA023	100 1/16W	1	
	R1044	D0GA103JA023	10K 1/16W	1	
	R1045	D0GAR00J0005	0 1/16W	1	
	R1046	D0GA101JA023	100 1/16W	1	
	R1047	D0GAR00J0005	0 1/16W	1	
	R1048	D0GA101JA023	100 1/16W	1	
	R1049	D0GA101JA023	100 1/16W	1	
	R1050	D0GA101JA023	100 1/16W	1	
	R1051	D0GA101JA023	100 1/16W	1	
	R1052	D0GA101JA023	100 1/16W	1	
	R1053	D0GA101JA023	100 1/16W	1	
	R1054	D0GA101JA023	100 1/16W	1	
	R1055	J0JCC0000287	INDUCTOR	1	
	R1056	J0JCC0000287	INDUCTOR	1	
	R1057	J0JCC0000287	INDUCTOR	1	
	R1058	J0JCC0000287	INDUCTOR	1	
	R1059	J0JCC0000287	INDUCTOR	1	
	R1060	J0JCC0000287	INDUCTOR	1	
	R1065	D0GA101JA023	100 1/16W	1	
	R1066	D0GA101JA023	100 1/16W	1	
	R1067	D1BB6802A074	68K 1/10W	1	
	R1068	D1BB1502A074	15K 1/10W	1	
	R1069	D0GBR00J0004	0 1/10W	1	
	R1078	J0JCC0000287	INDUCTOR	1	
	R1079	D1BB1502A074	15K 1/10W	1	
	R1080	D1BB6802A074	68K 1/10W	1	
	R1081	D0GAR00J0005	0 1/16W	1	
	R1088	D0GBR00J0004	0 1/10W	1	
	R1089	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1100	D0GB101JA065	100 1/10W	1	
	R1101	D0GB222JA065	2.2K 1/10W	1	
	R1103	D0GBR00J0004	0 1/10W	1	
	R1104	D0GB222JA065	2.2K 1/10W	1	
	R1109	D0GB103JA065	10K 1/10W	1	
	R1115	D0GB222JA065	2.2K 1/10W	1	
	R1116	D0GB222JA065	2.2K 1/10W	1	
	R1117	D0GB103JA065	10K 1/10W	1	
	R1118	D0GB103JA065	10K 1/10W	1	
	R1119	D0GB103JA065	10K 1/10W	1	
	R1123	D0GBR00J0004	0 1/10W	1	
	R1124	D0GB474JA065	470K 1/10W	1	
	R1125	D0GB474JA065	470K 1/10W	1	
	R1153	D0GBR00J0004	0 1/10W	1	UA90PU-K
	R1158	D0GBR00J0004	0 1/10W	1	UA90PR-K
	R1205	D0GBR00J0004	0 1/10W	1	
	R1221	D1BB1202A074	12K 1/10W	1	
	R1222	D0GB393JA065	39K 1/10W	1	
	R1223	D1BB6801A074	6.8K 1/10W	1	
	R1224	D0GB103JA065	10K 1/10W	1	
	R1225	D0GB393JA065	39K 1/10W	1	
	R1226	D1BB1202A074	12K 1/10W	1	
	R1227	D1BB6801A074	6.8K 1/10W	1	
	R2001	D0GB473JA065	47K 1/10W	1	
	R2002	D0GB473JA065	47K 1/10W	1	
	R2003	D0GB473JA065	47K 1/10W	1	
	R2004	D0GB473JA065	47K 1/10W	1	
	R2005	D0GB473JA065	47K 1/10W	1	
	R2006	D0GB473JA065	47K 1/10W	1	
	R2007	D0GB473JA065	47K 1/10W	1	
	R2300	D0GB472JA065	4.7K 1/10W	1	
	R2301	D0GB472JA065	4.7K 1/10W	1	
	R2302	D0GB103JA065	10K 1/10W	1	
	R2303	J0JGC0000063	INDUCTOR	1	
	R2305	J0JGC0000063	INDUCTOR	1	
	R2306	D0GB222JA065	2.2K 1/10W	1	
	R2307	D0GBR00J0004	0 1/10W	1	
	R2310	D0GBR00J0004	0 1/10W	1	
	R2311	D0GBR00J0004	0 1/10W	1	
	R2312	D0GBR00J0004	0 1/10W	1	
	R2313	D0GBR00J0004	0 1/10W	1	
	R2314	D0GBR00J0004	0 1/10W	1	
	R2500	D0GBR00J0004	0 1/10W	1	
	R2501	J0JYC0000656	INDUCTOR	1	
	R2502	D0GBR00J0004	0 1/10W	1	
	R2503	J0JYC0000656	INDUCTOR	1	
	R2504	J0JYC0000656	INDUCTOR	1	
	R2505	D0GB473JA065	47K 1/10W	1	
	R2506	J0JBC0000015	INDUCTOR	1	
	R2507	J0JBC0000015	INDUCTOR	1	
	R2508	J0JBC0000015	INDUCTOR	1	
	R2509	J0JYC0000656	INDUCTOR	1	
	R2510	J0JYC0000656	INDUCTOR	1	
	R2511	J0JYC0000656	INDUCTOR	1	
	R2512	J0JYC0000656	INDUCTOR	1	
	R2516	D0GBR00J0004	0 1/10W	1	
	R2518	J0JBC0000015	INDUCTOR	1	
	R2519	J0JYC0000656	INDUCTOR	1	
	R2522	J0JYC0000656	INDUCTOR	1	
	R2524	D0GBR00J0004	0 1/10W	1	
	R2525	D0GBR00J0004	0 1/10W	1	
	R2526	D0GBR00J0004	0 1/10W	1	
	R2527	J0JBC0000015	INDUCTOR	1	
	R2528	D0GBR00J0004	0 1/10W	1	
	R2529	J0JBC0000015	INDUCTOR	1	
	R2530	J0JYC0000656	INDUCTOR	1	
	R2531	J0JYC0000656	INDUCTOR	1	
	R2532	J0JYC0000656	INDUCTOR	1	
	R2533	J0JYC0000656	INDUCTOR	1	
	R2534	J0JYC0000656	INDUCTOR	1	
	R2535	J0JYC0000656	INDUCTOR	1	
	R2536	J0JYC0000656	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2537	J0JYC0000656	INDUCTOR	1	
	R2538	D0GBR00J0004	0 1/10W	1	
	R2539	J0JBC0000015	INDUCTOR	1	
	R2540	J0JBC0000015	INDUCTOR	1	
	R2541	D0GBR00J0004	0 1/10W	1	
	R2542	D0GBR00J0004	0 1/10W	1	
	R2543	D0GBR00J0004	0 1/10W	1	
	R2544	D0GBR00J0004	0 1/10W	1	
	R2548	D0GBR00J0004	0 1/10W	1	
	R2551	J0JYC0000656	INDUCTOR	1	
	R2552	J0JYC0000656	INDUCTOR	1	
	R2553	J0JYC0000656	INDUCTOR	1	
	R2554	J0JYC0000656	INDUCTOR	1	
	R2560	D0GB102JA065	1K 1/10W	1	
	R2561	D0GB102JA065	1K 1/10W	1	
	R2562	D0GB102JA065	1K 1/10W	1	
	R2563	D0GB102JA065	1K 1/10W	1	
	R2564	D0GBR00J0004	0 1/10W	1	
	R2565	D0GBR00J0004	0 1/10W	1	
	R2566	D0GBR00J0004	0 1/10W	1	
	R2567	D0GAR00J0005	0 1/16W	1	
	R2568	D0GAR00J0005	0 1/16W	1	
	R2569	D0GAR00J0005	0 1/16W	1	
	R3501	D0GB101JA065	100 1/10W	1	
	R3502	D0GB101JA065	100 1/10W	1	
	R3504	D0GB103JA065	10K 1/10W	1	
	R3505	D1BB4701A074	4.7K 1/10W	1	
	R3506	D1BB4701A074	4.7K 1/10W	1	
	R3507	D0GB101JA065	100 1/10W	1	
	R3509	D0GB223JA065	22K 1/10W	1	
	R3510	D1BB3302A074	33K 1/10W	1	
	R3511	D0GB101JA065	100 1/10W	1	
	R3512	D0GB101JA065	100 1/10W	1	
	R4001	D0GB152JA065	1.5K 1/10W	1	
	R4002	D0GB105JA065	1M 1/10W	1	
	R4004	D0GAR00J0005	0 1/16W	1	
	R4005	D0GB103JA065	10K 1/10W	1	
	R4006	D0GAR00J0005	0 1/16W	1	
	R4007	D0GB101JA065	100 1/10W	1	
	R4008	D0GB101JA065	100 1/10W	1	
	R4009	D0GB101JA065	100 1/10W	1	
	R4010	D0GB101JA065	100 1/10W	1	
	R4013	D0GB101JA065	100 1/10W	1	
	R4014	D0GB101JA065	100 1/10W	1	
	R4015	D0GB221JA065	220 1/10W	1	
	R4016	D0GB221JA065	220 1/10W	1	
	R4017	D0GBR00J0004	0 1/10W	1	
	R4018	D0GB101JA065	100 1/10W	1	
	R4019	D0GBR00J0004	0 1/10W	1	
	R4021	D0GB101JA065	100 1/10W	1	
	R4022	D0GB101JA065	100 1/10W	1	
	R4024	D0GA103JA023	10K 1/16W	1	
	R4027	D0GB101JA065	100 1/10W	1	
	R4028	D0GA101JA023	100 1/16W	1	
	R4030	D0GB101JA065	100 1/10W	1	
	R4200	D0GBR00J0004	0 1/10W	1	
	R4201	D0GB681JA065	680 1/10W	1	
	R4202	D0GB101JA065	100 1/10W	1	
	R4203	D0GB101JA065	100 1/10W	1	
	R4204	D0GB101JA065	100 1/10W	1	
	R4205	D0GB103JA065	10K 1/10W	1	
	R4206	D0GB103JA065	10K 1/10W	1	
	R4207	D0GB101JA065	100 1/10W	1	
	R4208	D0GB101JA065	100 1/10W	1	
	R4209	D0GB101JA065	100 1/10W	1	
	R4210	D0GB101JA065	100 1/10W	1	
	R4211	D0GB101JA065	100 1/10W	1	
	R4215	D0GB103JA065	10K 1/10W	1	
	R4216	D0GB103JA065	10K 1/10W	1	
	R4217	D0GB103JA065	10K 1/10W	1	
	R4218	D0GB103JA065	10K 1/10W	1	
	R4221	D0GB152JA065	1.5K 1/10W	1	
	R4222	D0GB101JA065	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R4223	D0GBR00J0004	0 1/10W	1	
	R4224	D0GBR00J0004	0 1/10W	1	
	R4225	D0GBR00J0004	0 1/10W	1	
	R4226	D0GB105JA065	1M 1/10W	1	
	R4227	D0GB103JA065	10K 1/10W	1	
	R5005	D0GB683JA065	68K 1/10W	1	
	R5006	D0GB683JA065	68K 1/10W	1	
	R5008	D0GB101JA065	100 1/10W	1	
	R5009	D0GB122JA065	1.2K 1/10W	1	
	R5010	D0GB102JA065	1K 1/10W	1	
	R5011	D0GB682JA065	6.8K 1/10W	1	
	R5013	D0GB473JA065	47K 1/10W	1	
	R5016	D0GB104JA065	100K 1/10W	1	
	R5018	D0GB153JA065	15K 1/10W	1	
	R5019	D0GB4R7JA065	4.7 1/10W	1	
	R5020	D0GB104JA065	100K 1/10W	1	
	R5022	D0GB101JA065	100 1/10W	1	
	R5037	D0GDR00J0004	0 1/8W	1	
	R5038	D0GDR00J0004	0 1/8W	1	
	R5041	D0GDR00J0004	0 1/8W	1	
	R9008	D0GBR00J0004	0 1/10W	1	
	R9009	D0GBR00J0004	0 1/10W	1	
	R9010	D0GBR00J0004	0 1/10W	1	
	R9011	D0GBR00J0004	0 1/10W	1	
	R9012	D0GBR00J0004	0 1/10W	1	
	R9013	D0GBR00J0004	0 1/10W	1	
	R9014	D0GBR00J0004	0 1/10W	1	
	R9015	D0GBR00J0004	0 1/10W	1	
	RX1001	J0JBD0000052	INDUCTOR	1	
	RX1003	J0JBD0000052	INDUCTOR	1	
			RESISTOR NETWORKS		
	RX1004	D1H81014A042	RESISTOR NETWORK	1	
	RX1007	D1H81014A042	RESISTOR NETWORK	1	
	RX1008	D1H81014A042	RESISTOR NETWORK	1	
	RX1009	D1H81014A042	RESISTOR NETWORK	1	
	RX5001	D1H81034A042	RESISTOR NETWORK	1	
			OSCILLATORS		
	X1001	H1C1695B0003	OSCILLATOR	1	
	X1002	H0A327200191	OSCILLATOR	1	
	X4001	H0J245500110	OSCILLATOR	1	
	X4200	H0J245500110	OSCILLATOR	1	
			PRINTED CIRCUIT BOARDS		
	PCB3	TNPA6811AG	TOUCH SENSOR P.C.B.	1	(RTL) UA90PU-K
	PCB3	TNPA6961	TOUCH SENSOR P.C.B.	1	(RTL) UA90PR-K
			CAPACITORS		
	C7701	F1G1C104A146	0.1uF 16V	1	
	C7702	F1H1H104B047	0.1uF 50V	1	
	C8000	F1H0J4750004	4.7uF 6.3V	1	
	C8003	F1H1H105B027	1uF 50V	1	
	C8004	F1G1C104A146	0.1uF 16V	1	
	C8005	F1H1H102A219	1000pF 50V	1	
	C8006	F1H1H102A219	1000pF 50V	1	
	C8013	F1H1H101B052	100pF 50V	1	
	C8014	F1H1H101B052	100pF 50V	1	
	C8015	F1H1H101B052	100pF 50V	1	
	C8016	F1H1H101B052	100pF 50V	1	
	C8018	F1H1H102A219	1000pF 50V	1	
			CONNECTORS		
	CN8000	K1MN17BA0147	CONNECTOR	1	
			DIODES		
	D8000	B3AFB0000859	DIODE	1	
	D8001	B3AFB0000859	DIODE	1	
	D8002	B3AFB0000859	DIODE	1	
	D8003	B3AFB0000859	DIODE	1	
	D8004	B3AFB0000859	DIODE	1	
	D8005	B3AFB0000859	DIODE	1	
	D8009	B3AFB0000859	DIODE	1	
	D8010	B3AFB0000859	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D8011	B3AFB0000859	DIODE	1	
	D8012	B3AFB0000859	DIODE	1	
	D8013	B3AFB0000859	DIODE	1	
	D8014	B3AFB0000859	DIODE	1	
	D8018	B0ECKM000008	DIODE	1	
	D8019	D0GFR00J0005	0 1/4W	1	
			INTEGRATED CIRCUITS		
	IC7701	RSNE031B0	IC	1	(E.S.D)
	IC8000	C0ZBZ0002339	IC	1	(E.S.D)
			INDUCTORS		
	LB7701	J0JYC0000656	INDUCTOR	1	
	Q8000	B1ABGC000005	TRANSISTOR	1	
	Q8001	B1ABGC000005	TRANSISTOR	1	
			RESISTORS		
	R8000	D0GB510JA065	51 1/10W	1	
	R8001	D0GB510JA065	51 1/10W	1	
	R8002	D0GB510JA065	51 1/10W	1	
	R8003	D0GB510JA065	51 1/10W	1	
	R8004	D0GB510JA065	51 1/10W	1	
	R8005	D0GB510JA065	51 1/10W	1	
	R8009	D0GB510JA065	51 1/10W	1	
	R8010	D0GB510JA065	51 1/10W	1	
	R8011	D0GB510JA065	51 1/10W	1	
	R8012	D0GB510JA065	51 1/10W	1	
	R8013	D0GB510JA065	51 1/10W	1	
	R8014	D0GB510JA065	51 1/10W	1	
	R8018	D0GA102JA023	1K 1/16W	1	
	R8021	J0JBC0000015	INDUCTOR	1	
	R8022	J0JBC0000015	INDUCTOR	1	
	R8023	D0GBR00J0004	0 1/10W	1	
	R8024	D0GBR00J0004	0 1/10W	1	
	R8025	D0GBR00J0004	0 1/10W	1	
	R8026	D0GBR00J0004	0 1/10W	1	
	R8027	D0GA102JA023	1K 1/16W	1	
	R8028	D0GA102JA023	1K 1/16W	1	
	R8029	D0GA102JA023	1K 1/16W	1	
	R8030	D0GA102JA023	1K 1/16W	1	
	R8031	D0GB101JA065	100 1/10W	1	
	R8032	D0GB101JA065	100 1/10W	1	
	R8033	D0GB101JA065	100 1/10W	1	
	R8034	D0GB101JA065	100 1/10W	1	
	R8035	D0GBR00J0004	0 1/10W	1	
	R8036	D0GBR00J0004	0 1/10W	1	
	R8037	J0JBC0000015	INDUCTOR	1	
	R8038	D0GA473JA023	47K 1/16W	1	
			PRINTED CIRCUIT BOARDS		
	PCB4	TNPA6812AG	TUNER P.C.B.	1	(RTL) UA90PU-K
	PCB4	TNPA6962	TUNER P.C.B.	1	(RTL) UA90PR-K
			CAPACITORS		
	C51	F1H1H102B047	1000pF 50V	1	
	C60	F1H1H6R0B050	6pF 50V	1	
	C61	F1H1H104B047	0.1uF 50V	1	
	C6108	F1H1A1050040	1uF 10V	1	
	C6109	F1H1A1050040	1uF 10V	1	
	C62	F1H1H104B047	0.1uF 50V	1	
	C6217	F1H1A1050040	1uF 10V	1	
	C63	F1H1H6R0B050	6pF 50V	1	
	C65	D0GBR00J0004	0 1/10W	1	
	C66	F1H1H330B052	33pF 50V	1	
	C67	F1H1H3R0B050	3pF 50V	1	
			CONNECTORS		
	CN51	K1MN16A00072	CONNECTOR	1	
			INTEGRATED CIRCUITS		
	IC52	VUEALLPT091	IC	1	(E.S.D)
			JACKS		
	JK51	K4ZZ02000103	JK	1	
	JK6002	K2HA2YYA0009	JK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			INDUCTORS		
	L51	G1CR18JA0020	INDUCTOR	1	
	L54	G1C1R0MA0204	INDUCTOR	1	
	L55	F1H1H3R0B050	3pF 50V	1	
	LB51	J0JYC0000656	INDUCTOR	1	
	LB52	J0JYC0000118	INDUCTOR	1	
	LB6119	J0JBC0000010	INDUCTOR	1	
	LB6120	J0JBC0000010	INDUCTOR	1	
			RESISTORS		
	R51	D0GB221JA065	220 1/10W	1	
	R52	D0GB221JA065	220 1/10W	1	
	R55	D0GAR00J0005	0 1/16W	1	
	R56	D0GBR00J0004	0 1/10W	1	
	R57	D0GA102JA023	1K 1/16W	1	
	R59	D0GB222JA065	2.2K 1/10W	1	
	R60	D0GB221JA065	220 1/10W	1	
	R61	D0GBR00J0004	0 1/10W	1	
	R6106	D0GB472JA065	4.7K 1/10W	1	
	R6107	D0GB472JA065	4.7K 1/10W	1	
	R6114	D0GBR00J0004	0 1/10W	1	
	R6117	D0GB103JA065	10K 1/10W	1	
	R6118	D0GB103JA065	10K 1/10W	1	
	R6135	D0GBR00J0004	0 1/10W	1	
	R6136	D0GBR00J0004	0 1/10W	1	
	VA51	J0ZZB0000202	VARISTOR	1	
			PRINTED CIRCUIT BOARDS		
	PCB5	TNPA6732AB	PANEL P.C.B.	1	(RTL)
			BUZZER		
	BZ6800	L0DCCA000014	SOUND/BUZZER	1	
			CAPACITORS		
	C6801	F1H1A105A113	1uF 10V	1	
	C6802	F1J1H105A918	1uF 50V	1	
	C6803	F1H1E105A153	1uF 25V	1	
	C6804	F1H1E105A153	1uF 25V	1	
	C6805	F1J1E105A287	1uF 25V	1	
	C6806	F2A1H470B412	47uF 50V	1	
	C6807	F1H1E105A153	1uF 25V	1	
	C6808	F1H1E105A153	1uF 25V	1	
	C6814	F1H1H104B047	0.1uF 50V	1	
	C6815	F2A0J101A208	100uF 6.3V	1	
	C6816	F1H1A105A113	1uF 10V	1	
	C6817	F2A0J101A208	100uF 6.3V	1	
	C6826	F1H1H102A219	1000pF 50V	1	
	C6827	F1H1H102A219	1000pF 50V	1	
	C6828	F1H1H102A219	1000pF 50V	1	
	C6829	F1J1C1060006	10uF 16V	1	
	C6833	F1H1H102A219	1000pF 50V	1	
	C6837	F1H1H102B047	1000pF 50V	1	
	C6838	F1H1H102B047	1000pF 50V	1	
	C6839	F1H1H102A219	1000pF 50V	1	
			CONNECTORS		
	CN6801	K1MN24B00045	CONNECTOR	1	
			DIODES		
	D6022	B0EAMM000057	DIODE	1	
	D6801	B0ADDH000009	DIODE	1	
	D6802	B0ADDH000009	DIODE	1	
	D6803	DZ2J056M0L	DIODE	1	
	D9000	B3AAA0001129	DIODE	1	
	D9001	B3AAA0001129	DIODE	1	
	D9003	B3AFA0000131	DIODE	1	
	D9004	B3AFA0000131	DIODE	1	
	D9007	B3AAA0001129	DIODE	1	
	D9008	B3AAA0001129	DIODE	1	
			FL DISPLAY		
	DP6801	TZT2B01AM5L	FL DISPLAY ASS'Y	1	
			INTEGRATED CIRCUITS		
	IC6800	C0JBAC000555	IC	1	(E.S.D)
	IC6801	C0JBAC000555	IC	1	(E.S.D)
			INDUCTORS		
	LB6801	J0JBC0000015	INDUCTOR	1	
	LB6802	J0JHC0000118	INDUCTOR	1	
	LB6803	J0JHC0000118	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB6804	J0JBC0000015	INDUCTOR	1	
	LB6805	J0JHC0000118	INDUCTOR	1	
	LB6806	J0JBC0000015	INDUCTOR	1	
	LB6807	J0JBC0000015	INDUCTOR	1	
	LB6808	J0JBC0000015	INDUCTOR	1	
	LB6809	J0JBC0000015	INDUCTOR	1	
			TRANSISTORS		
	Q6801	B1HFCDE00002	TRANSISTOR	1	
	Q6802	B1HFCDE00002	TRANSISTOR	1	
	Q6803	B1ABBE000003	TRANSISTOR	1	
	Q9000	B1ABGC000005	TRANSISTOR	1	
			RESISTORS		
	R6802	D0GB223JA065	22K 1/10W	1	
	R6803	D0GB100JA065	10 1/10W	1	
	R6804	D0GB220JA065	22 1/10W	1	
	R6806	D0GD473JA052	47K 1/8W	1	
	R6810	D0GF390JA048	39 1/4W	1	
	R6811	D0GF390JA048	39 1/4W	1	
	R6812	D0GB101JA065	100 1/10W	1	
	R6813	D0GB101JA065	100 1/10W	1	
	R6814	D0GB101JA065	100 1/10W	1	
	R6815	D0GB272JA065	2.7K 1/10W	1	
	R6816	D0GB472JA065	4.7K 1/10W	1	
	R6817	D0GB223JA065	22K 1/10W	1	
	R6818	D0GB473JA065	47K 1/10W	1	
	R6820	D0GD104JA052	100K 1/8W	1	
	R6823	D0GBR00J0004	0 1/10W	1	
	R6828	D0GBR00J0004	0 1/10W	1	
	R6829	D0GBR00J0004	0 1/10W	1	
	R6830	D0GBR00J0004	0 1/10W	1	
	R6836	D0GB102JA065	1K 1/10W	1	
	R6837	D0GB102JA065	1K 1/10W	1	
	R6839	D0GBR00J0004	0 1/10W	1	
	R6840	D0GB105JA065	1M 1/10W	1	
	R6841	D0GB222JA065	2.2K 1/10W	1	
	R6842	D0GB124JA065	120K 1/10W	1	
	R9000	D0GB181JA065	180 1/10W	1	
	R9001	D0GB181JA065	180 1/10W	1	
	R9003	D0GB181JA065	180 1/10W	1	
	R9004	D0GB181JA065	180 1/10W	1	
	R9007	D0GB102JA065	1K 1/10W	1	
	R9008	D0GB102JA065	1K 1/10W	1	
	R9009	D0GB181JA065	180 1/10W	1	
	R9010	D0GB181JA065	180 1/10W	1	
	W6801	D0GFR00J0005	0 1/4W	1	
	W6802	D0GFR00J0005	0 1/4W	1	
	W6803	D0GFR00J0005	0 1/4W	1	
	W6804	D0GFR00J0005	0 1/4W	1	
	W6805	D0GFR00J0005	0 1/4W	1	
	W6806	D0GBR00J0004	0 1/10W	1	
	W6807	D0GDR00J0004	0 1/8W	1	
	W6808	D0GFR00J0005	0 1/4W	1	
	W6809	D0GFR00J0005	0 1/4W	1	
	W6810	D0GFR00J0005	0 1/4W	1	
	W6811	D0GFR00J0005	0 1/4W	1	
	W6812	D0GFR00J0005	0 1/4W	1	
	W6813	D0GFR00J0005	0 1/4W	1	
	W6814	D0GFR00J0005	0 1/4W	1	
	W6815	D0GFR00J0005	0 1/4W	1	
	W6816	D0GFR00J0005	0 1/4W	1	
	W6817	D0GFR00J0005	0 1/4W	1	
	W6818	D0GFR00J0005	0 1/4W	1	
	W6819	D0GDR00J0004	0 1/8W	1	
	W6820	D0GDR00J0004	0 1/8W	1	
	W6821	D0GDR00J0004	0 1/8W	1	
	W6822	D0GFR00J0005	0 1/4W	1	
	W6823	D0GFR00J0005	0 1/4W	1	
	W6824	D0GDR00J0004	0 1/8W	1	
			PRINTED CIRCUIT BOARDS		
	PCB6	TNPA6733AB	USB P.C.B.	1	(RTL)
			CAPACITORS		
	C6400	F1H1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6401	F1H1H104B047	0.1uF 50V	1	
			CONNECTORS		
	CN6401	K1ZZ00000833	CONNECTOR	1	
			JACKS		
	JK6400	K1FY104A0034	JK	1	
	JK6401	K1FY104A0034	JK	1	
			INDUCTORS		
	LB6400	J0JGC0000063	INDUCTOR	1	
	LB6401	J0JGC0000063	INDUCTOR	1	
			RESISTORS		
	R6401	D0GB474JA065	470K 1/10W	1	
	R6402	D0GB474JA065	470K 1/10W	1	
	W6401	D0GDR00J0004	0 1/8W	1	
	W6402	D0GDR00J0004	0 1/8W	1	
			PRINTED CIRCUIT BOARDS		
	PCB7	TNPA6734AB	MIC P.C.B.	1	(RTL)
			CAPACITORS		
	C1401	F2A1H4R7A213	4.7uF 50V	1	
	C1402	F1H1H470B052	47pF 50V	1	
	C1404	F2A1H4R7A218	4.7uF 50V	1	
	C1405	F2A1H1R00004	1uF 50V	1	
	C1407	F1H1H103B047	0.01uF 50V	1	
	C1408	F2A1H2R2A213	2.2uF 50V	1	
	C1411	F2A1C100A207	10uF 16V	1	
	C1412	F2A1C100A234	10uF 16V	1	
	C1413	F2A1H1R0A213	1uF 50V	1	
	C1415	F2A1HR10A015	0.1uF 50V	1	
	C1416	F1H1H103B047	0.01uF 50V	1	
	C1424	F2A1H2R2A213	2.2uF 50V	1	
	C1425	F1H1H103B047	0.01uF 50V	1	
	C1427	F2A1H1R00004	1uF 50V	1	
	C1428	F2A1H4R7A218	4.7uF 50V	1	
	C1430	F1H1H470B052	47pF 50V	1	
	C1432	F2A1H4R7A213	4.7uF 50V	1	
	C1434	F2A1C100A207	10uF 16V	1	
	C1435	F2A1C100A234	10uF 16V	1	
	C1436	F2A1H1R0A213	1uF 50V	1	
	C1438	F2A1HR10A015	0.1uF 50V	1	
	C1441	F1H1H103B047	0.01uF 50V	1	
	C1442	F1H1H223B047	0.022uF 50V	1	
	C1443	F1H1H223B047	0.022uF 50V	1	
	C1444	F1H1E105A153	1uF 25V	1	
	C1445	F1H1E105A153	1uF 25V	1	
			CONNECTORS		
	CN1401	K1ZZ00000832	CONNECTOR	1	
			INTEGRATED CIRCUITS		
	IC1400	C1AB00003130	IC	1	(E.S.D)
	IC1401	C1AB00003130	IC	1	(E.S.D)
			JACKS		
	JK1401	K2HB107B0001	JK	1	
	JK1403	K2HB107B0001	JK	1	
			RESISTORS		
	K1402	D0GBR00J0004	0 1/10W	1	
			INDUCTORS		
	LB1400	J0JBC0000019	INDUCTOR	1	
	LB1401	D0GBR00J0004	0 1/10W	1	
	LB1404	J0JBC0000019	INDUCTOR	1	
			RESISTORS		
	R1400	D0GB331JA065	330 1/10W	1	
	R1401	D0GB682JA065	6.8K 1/10W	1	
	R1402	D0GB101JA065	100 1/10W	1	
	R1405	D0GB104JA065	100K 1/10W	1	
	R1406	D0GB104JA065	100K 1/10W	1	
	R1407	D0GB271JA065	270 1/10W	1	
	R1408	D0GB331JA065	330 1/10W	1	
	R1409	D0GBR00J0004	0 1/10W	1	
	R1410	D0GBR00J0004	0 1/10W	1	
	R1411	D0GB271JA065	270 1/10W	1	
	R1412	D0GB681JA065	680 1/10W	1	
	R1413	D0GB681JA065	680 1/10W	1	
	R1414	D0GB101JA065	100 1/10W	1	
	R1415	D0GB682JA065	6.8K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1418	D0GB104JA065	100K 1/10W	1	
	R1419	D0GB104JA065	100K 1/10W	1	
	R1420	D0GB221JA065	220 1/10W	1	
	R1421	D0GB221JA065	220 1/10W	1	
	R1422	D0GB103JA065	10K 1/10W	1	
	R1423	D0GB153JA065	15K 1/10W	1	
	R1433	D0GBR00J0004	0 1/10W	1	
	R1435	D0GBR00J0004	0 1/10W	1	
	W1401	D0GFR00J0005	0 1/4W	1	
	W1402	D0GFR00J0005	0 1/4W	1	
	W1403	D0GDR00J0004	0 1/8W	1	
	W1404	D0GFR00J0005	0 1/4W	1	
	W1405	D0GFR00J0005	0 1/4W	1	
	W1406	D0GDR00J0004	0 1/8W	1	
	W1407	D0GFR00J0005	0 1/4W	1	
			PRINTED CIRCUIT BOARDS		
	PCB8	TNPA6735AB	IR SENSOR P.C.B.	1	(RTL)
			CAPACITORS		
	C6818	F1H1H101B052	100pF 50V	1	
	C6819	F1H1H102B047	1000pF 50V	1	
	C6820	F1J1A106A043	10uF 10V	1	
			CONNECTORS		
	CN6500	K1KA03BA0061	CONNECTOR	1	
			REMOTE SENSOR		
	IR6500	B3RAD0000227	REMOTE SENSOR	1	
			PRINTED CIRCUIT BOARDS		
	PCB9	TNPA6809	DAMP P.C.B.	1	(RTL)
			CAPACITORS		
	C2101	F1J1A106A043	10uF 10V	1	
	C2108	F1J1A106A043	10uF 10V	1	
	C2113	F2A0J220A210	22uF 6.3V	1	
	C2115	F2A1E330B389	33uF 25V	1	
	C2117	F1H1H104B047	0.1uF 50V	1	
	C2118	F1H1E105A153	1uF 25V	1	
	C2121	F1J1A106A043	10uF 10V	1	
	C2124	F2A0J220A210	22uF 6.3V	1	
	C2126	F1H1H104B047	0.1uF 50V	1	
	C2129	F1H1E105A153	1uF 25V	1	
	C2130	F2A0J220A210	22uF 6.3V	1	
	C2131	F1H1E105A153	1uF 25V	1	
	C2132	F2A0J220A210	22uF 6.3V	1	
	C2133	F1H1H103B047	0.01uF 50V	1	
	C2134	F1H1H103B047	0.01uF 50V	1	
	C2135	F2A1E221B422	220uF 25V	1	
	C2136	F1H1H103B047	0.01uF 50V	1	
	C2138	F1H1H104B047	0.1uF 50V	1	
	C2139	F1H1H103B047	0.01uF 50V	1	
	C2140	F1H1H561B052	560pF 50V	1	
	C2142	F1J1E106A253	10uF 25V	1	
	C2144	F1H1H391A219	390pF 50V	1	
	C2145	F1H1H104B047	0.1uF 50V	1	
	C2146	F1J1E106A253	10uF 25V	1	
	C2147	F2A1H472C089	4700uF 50V	1	
	C2148	F2A1H472C089	4700uF 50V	1	
	C2150	F1H1H103B047	0.01uF 50V	1	
	C2151	F1G1H103A835	0.01uF 50V	1	
	C2152	F1H1H104B047	0.1uF 50V	1	
	C2153	F1G1H561A541	560pF 50V	1	
	C2155	F2A1A1010024	100uF 10V	1	
	C2156	F1H1H104B047	0.1uF 50V	1	
	C2171	F2A1H4710072	470uF 50V	1	
	C2174	F1H1H104B047	0.1uF 50V	1	
	C2179	F1H1H104B047	0.1uF 50V	1	
	C2180	F1H1H104B047	0.1uF 50V	1	
	C2181	F1H1H104B047	0.1uF 50V	1	
	C2182	F1H1H104B047	0.1uF 50V	1	
	C2183	F1H1H104B047	0.1uF 50V	1	
	C2187	F1H1H681B052	680pF 50V	1	
	C2188	F2A1H220B411	22uF 50V	1	
	C2189	F2A1H220B411	22uF 50V	1	
	C2191	F1H1H103B047	0.01uF 50V	1	
	C3000	F2A1C101A243	100uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C3001	F1J1E106A253	10uF 25V	1	
	C3002	F1H1H104B047	0.1uF 50V	1	
	C3003	F1H1H104B047	0.1uF 50V	1	
	C3004	F1H1H105B027	1uF 50V	1	
	C3005	F1H1H104B047	0.1uF 50V	1	
	C3006	F1H1H104B047	0.1uF 50V	1	
	C3007	F1H1H104B047	0.1uF 50V	1	
	C3008	F1H1H333B047	0.033uF 50V	1	
	C3009	F1H1H333B047	0.033uF 50V	1	
	C3010	F1H2A1040001	0.1uF 100V	1	
	C3011	F1K2A105A047	1uF 100V	1	
	C3018	F1H2A1040001	0.1uF 100V	1	
	C3019	F1K2A105A047	1uF 100V	1	
	C3026	F1H1H333B047	0.033uF 50V	1	
	C3027	F1H1H333B047	0.033uF 50V	1	
	C3100	F1J1E106A253	10uF 25V	1	
	C3101	F1H1H104B047	0.1uF 50V	1	
	C3102	F1H1H104B047	0.1uF 50V	1	
	C3103	F1H1H105B027	1uF 50V	1	
	C3104	F1H1H104B047	0.1uF 50V	1	
	C3105	F1H1H104B047	0.1uF 50V	1	
	C3106	F1H1H104B047	0.1uF 50V	1	
	C3107	F1H1H333B047	0.033uF 50V	1	
	C3108	F1H1H333B047	0.033uF 50V	1	
	C3111	F1H2A1040001	0.1uF 100V	1	
	C3112	F1K2A105A047	1uF 100V	1	
	C3117	F1H2A1040001	0.1uF 100V	1	
	C3118	F1K2A105A047	1uF 100V	1	
	C3122	F1H1H333B047	0.033uF 50V	1	
	C3123	F1H1H333B047	0.033uF 50V	1	
	C3200	F1J1E106A253	10uF 25V	1	
	C3201	F1H1H104B047	0.1uF 50V	1	
	C3202	F1H1H104B047	0.1uF 50V	1	
	C3203	F1H1H105B027	1uF 50V	1	
	C3204	F1H1H104B047	0.1uF 50V	1	
	C3205	F1H1H104B047	0.1uF 50V	1	
	C3206	F1H1H104B047	0.1uF 50V	1	
	C3207	F1H1H333B047	0.033uF 50V	1	
	C3208	F1H1H333B047	0.033uF 50V	1	
	C3211	F1H2A1040001	0.1uF 100V	1	
	C3212	F1K2A105A047	1uF 100V	1	
	C3217	F1H2A1040001	0.1uF 100V	1	
	C3218	F1K2A105A047	1uF 100V	1	
	C3222	F1H1H333B047	0.033uF 50V	1	
	C3223	F1H1H333B047	0.033uF 50V	1	
	C3301	F1J1E106A253	10uF 25V	1	
	C3302	F1H1H104B047	0.1uF 50V	1	
	C3303	F1H1H104B047	0.1uF 50V	1	
	C3304	F1H1H105B027	1uF 50V	1	
	C3305	F1H1H104B047	0.1uF 50V	1	
	C3306	F1H1H104B047	0.1uF 50V	1	
	C3307	F1H1H104B047	0.1uF 50V	1	
	C3308	F1H1H333B047	0.033uF 50V	1	
	C3309	F1H1H333B047	0.033uF 50V	1	
	C3310	F1H2A1040001	0.1uF 100V	1	
	C3311	F1K2A105A047	1uF 100V	1	
	C3318	F1H2A1040001	0.1uF 100V	1	
	C3319	F1K2A105A047	1uF 100V	1	
	C3326	F1H1H333B047	0.033uF 50V	1	
	C3327	F1H1H333B047	0.033uF 50V	1	
	C3502	F1H1H104B047	0.1uF 50V	1	
	C3503	F1H1H104B047	0.1uF 50V	1	
	C3504	F1H1H104B047	0.1uF 50V	1	
	C3506	F1H1H104B047	0.1uF 50V	1	
	C3508	F1H1H104B047	0.1uF 50V	1	
	C3509	F1H1H104B047	0.1uF 50V	1	
	C3510	F1H1H104B047	0.1uF 50V	1	
	C3511	F1H1H104B047	0.1uF 50V	1	
	C3522	F1H1H103B047	0.01uF 50V	1	
	C3523	F1H1H103B047	0.01uF 50V	1	
	C3526	F1H1H103B047	0.01uF 50V	1	
	C3527	F1H1H103B047	0.01uF 50V	1	
	C3534	F1H1H103B047	0.01uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C3535	F1H1H103B047	0.01uF 50V	1	
	C3538	F1H1H103B047	0.01uF 50V	1	
	C3539	F1H1H103B047	0.01uF 50V	1	
	C3548	D0GBR00J0004	0 1/10W	1	
	C3549	F1J1A106A043	10uF 10V	1	
	C3550	F1J1A106A043	10uF 10V	1	
	C3551	F1H1E105A153	1uF 25V	1	
	C3571	F1H1H103B047	0.01uF 50V	1	
	C3572	F1H1H103B047	0.01uF 50V	1	
	C3574	F1H1H103B047	0.01uF 50V	1	
	C3581	F1K1H474A250	0.47uF 50V	1	
	C3582	F1K1H474A250	0.47uF 50V	1	
	C3583	F1K1H474A250	0.47uF 50V	1	
	C3584	F1K1H474A250	0.47uF 50V	1	
	C3585	F1K1H474A250	0.47uF 50V	1	
	C3586	F1K1H474A250	0.47uF 50V	1	
	C3587	F1K1H474A250	0.47uF 50V	1	
	C3588	F1K1H474A250	0.47uF 50V	1	
			CONNECTORS		
	CN2100	K1YA09000001	CONNECTOR	1	
	CN2101	K1KA02AA0186	CONNECTOR	1	
	CN2102	K1KA02AA0186	CONNECTOR	1	
	CN2103	K1KA13AA0181	CONNECTOR	1	
	CN2105	K1MN20A00013	CONNECTOR	1	
	CN3501	K1KA04A00629	CONNECTOR	1	
	CN3502	K1KA04A00629	CONNECTOR	1	
			DIODES		
	D2101	DA2J10100L	DIODE	1	
	D2103	DA2J10100L	DIODE	1	
	D2104	DZ2J130M0L	DIODE	1	
	D2105	B0ADDJ000032	DIODE	1	
	D2106	B0JCPG000032	DIODE	1	
	D2107	B0JCPG000032	DIODE	1	
	D2109	B0ADDJ000032	DIODE	1	
	D2110	DZ2J130M0L	DIODE	1	
	D2111	DA2J10100L	DIODE	1	
	D2112	DZ2J075M0L	DIODE	1	
	D2113	DZ2J220M0L	DIODE	1	
	D2114	DZ2J220M0L	DIODE	1	
	D3000	DA2J10100L	DIODE	1	
	D3001	DA2J10100L	DIODE	1	
			INTEGRATED CIRCUITS		
	IC2101	C0DBAYY01594	IC	1	(E.S.D)
	IC2102	C0ABBA000318	IC	1	(E.S.D)
	IC2103	C0DBAYY01594	IC	1	(E.S.D)
	IC3001	C1AB00004014	IC	1	(E.S.D)
	IC3101	C1AB00004014	IC	1	(E.S.D)
	IC3201	C1AB00004014	IC	1	(E.S.D)
	IC3301	C1AB00004014	IC	1	(E.S.D)
			INDUCTORS		
	L2101	G1C470MA0445	INDUCTOR	1	
	L2102	G1C330MA0291	INDUCTOR	1	
	L3000	G0C100M00013	INDUCTOR	1	
	L3001	G0C100M00013	INDUCTOR	1	
	L3100	G0C100M00013	INDUCTOR	1	
	L3101	G0C100M00013	INDUCTOR	1	
	L3200	G0C100M00013	INDUCTOR	1	
	L3201	G0C100M00013	INDUCTOR	1	
	L3300	G0C100M00013	INDUCTOR	1	
	L3301	G0C100M00013	INDUCTOR	1	
	LB2102	J0JHC0000046	INDUCTOR	1	
	LB2103	J0JHC0000046	INDUCTOR	1	
	LB2104	J0JKB0000020	INDUCTOR	1	
			TRANSISTORS		
	Q2100	B1AAJC000019	TRANSISTOR	1	
	Q2103	B1AAJC000019	TRANSISTOR	1	
	Q2104	B1ABCF000231	TRANSISTOR	1	
	Q2106	B1ABCF000231	TRANSISTOR	1	
	Q2108	B1ABCF000231	TRANSISTOR	1	
	Q2110	B1ABCF000231	TRANSISTOR	1	
	Q2111	B1ABCF000231	TRANSISTOR	1	
	Q2112	B1ABCF000231	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q2113	B1AAJC000019	TRANSISTOR	1	
	Q3500	B1ABCF000231	TRANSISTOR	1	
	Q3501	B1ABCF000231	TRANSISTOR	1	
	Q3502	DSA200100L	TRANSISTOR	1	
	Q3503	B1ABCF000231	TRANSISTOR	1	
	QR2101	B1GBCFJ00041	TRANSISTOR	1	
	QR2102	B1GBCFJ00041	TRANSISTOR	1	
			RESISTORS		
	R2100	D0GBR00J0004	0 1/10W	1	
	R2101	D0GB681JA065	680 1/10W	1	
	R2102	D0GB473JA065	47K 1/10W	1	
	R2103	D0GB123JA065	12K 1/10W	1	
	R2113	D0GDR00J0004	0 1/8W	1	
	R2117	D0GB681JA065	680 1/10W	1	
	R2118	D0GB473JA065	47K 1/10W	1	
	R2119	D0GB123JA065	12K 1/10W	1	
	R2125	D0GB274JA065	270K 1/10W	1	
	R2126	D0GB823JA065	82K 1/10W	1	
	R2129	D0GB682JA065	6.8K 1/10W	1	
	R2130	D0GB221JA065	220 1/10W	1	
	R2135	F1H1H104B047	0.1uF 50V	1	
	R2137	D0GB101JA065	100 1/10W	1	
	R2141	D0GB474JA065	470K 1/10W	1	
	R2143	D0AF270JA039	27 1/2W	1	
	R2146	D0GBR00J0004	0 1/10W	1	
	R2147	D0GBR00J0004	0 1/10W	1	
	R2148	D0GB682JA065	6.8K 1/10W	1	
	R2149	D0GB274JA065	270K 1/10W	1	
	R2150	D0GB823JA065	82K 1/10W	1	
	R2151	D0GB221JA065	220 1/10W	1	
	R2152	F1H1H104B047	0.1uF 50V	1	
	R2153	D0GB474JA065	470K 1/10W	1	
	R2154	D0GB101JA065	100 1/10W	1	
	R2155	D0AF270JA039	27 1/2W	1	
	R2156	D0GB331JA065	330 1/10W	1	
	R2157	D0GB101JA065	100 1/10W	1	
	R2164	D1BB6802A074	68K 1/10W	1	
	R2165	D1BB1203A074	120K 1/10W	1	
	R2166	D1BB1002A074	10K 1/10W	1	
	R2167	D0GB103JA065	10K 1/10W	1	
	R2168	D1BB1503A074	150K 1/10W	1	
	R2174	D0GDR00J0004	0 1/8W	1	
	R2175	D1BB1002A074	10K 1/10W	1	
	R2176	D1BB3002A074	30K 1/10W	1	
	R2177	D1BB3002A074	30K 1/10W	1	
	R2178	D1BB1503A074	150K 1/10W	1	
	R2179	D0GB103JA065	10K 1/10W	1	
	R2180	D1BB6802A074	68K 1/10W	1	
	R2181	D1BB6802A074	68K 1/10W	1	
	R2187	D0GDR00J0004	0 1/8W	1	
	R2221	D0GBR00J0004	0 1/10W	1	
	R2232	D0GBR00J0004	0 1/10W	1	
	R2233	D0GBR00J0004	0 1/10W	1	
	R2234	D0GBR00J0004	0 1/10W	1	
	R2237	D0GB222JA065	2.2K 1/10W	1	
	R2248	D0GB4R7JA065	4.7 1/10W	1	
	R2251	D0GDR00J0004	0 1/8W	1	
	R2252	D0GDR00J0004	0 1/8W	1	
	R2253	D0GB102JA065	1K 1/10W	1	
	R2255	D0GB102JA065	1K 1/10W	1	
	R2256	D0GB102JA065	1K 1/10W	1	
	R3000	D0GB100JA065	10 1/10W	1	
	R3001	D0GB100JA065	10 1/10W	1	
	R3002	D0GB223JA065	22K 1/10W	1	
	R3003	D0GB101JA065	100 1/10W	1	
	R3004	D0GBR00J0004	0 1/10W	1	
	R3005	D0GBR00J0004	0 1/10W	1	
	R3006	D0GBR00J0004	0 1/10W	1	
	R3007	D0GBR00J0004	0 1/10W	1	
	R3009	D0GB101JA065	100 1/10W	1	
	R3011	D0GB100JA065	10 1/10W	1	
	R3016	D0GBR00J0004	0 1/10W	1	
	R3017	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R3018	D0GBR00J0004	0 1/10W	1	
	R3019	D0GBR00J0004	0 1/10W	1	
	R3024	D0GFR00J0005	0 1/4W	1	
	R3100	D0GB100JA065	10 1/10W	1	
	R3101	D0GB100JA065	10 1/10W	1	
	R3102	D0GB223JA065	22K 1/10W	1	
	R3103	D0GB101JA065	100 1/10W	1	
	R3104	D0GBR00J0004	0 1/10W	1	
	R3105	D0GB100JA065	10 1/10W	1	
	R3110	D0GBR00J0004	0 1/10W	1	
	R3111	D0GBR00J0004	0 1/10W	1	
	R3112	D0GBR00J0004	0 1/10W	1	
	R3113	D0GBR00J0004	0 1/10W	1	
	R3114	D0GBR00J0004	0 1/10W	1	
	R3115	D0GBR00J0004	0 1/10W	1	
	R3200	D0GB100JA065	10 1/10W	1	
	R3201	D0GB100JA065	10 1/10W	1	
	R3202	D0GB223JA065	22K 1/10W	1	
	R3203	D0GB101JA065	100 1/10W	1	
	R3204	D0GBR00J0004	0 1/10W	1	
	R3205	D0GB100JA065	10 1/10W	1	
	R3210	D0GBR00J0004	0 1/10W	1	
	R3211	D0GBR00J0004	0 1/10W	1	
	R3221	D0GBR00J0004	0 1/10W	1	
	R3222	D0GBR00J0004	0 1/10W	1	
	R3300	D0GB100JA065	10 1/10W	1	
	R3301	D0GB100JA065	10 1/10W	1	
	R3302	D0GB223JA065	22K 1/10W	1	
	R3303	D0GB101JA065	100 1/10W	1	
	R3304	D0GBR00J0004	0 1/10W	1	
	R3307	D0GBR00J0004	0 1/10W	1	
	R3309	D0GB101JA065	100 1/10W	1	
	R3311	D0GB100JA065	10 1/10W	1	
	R3316	D0GBR00J0004	0 1/10W	1	
	R3317	D0GBR00J0004	0 1/10W	1	
	R3318	D0GBR00J0004	0 1/10W	1	
	R3505	D0GB104JA065	100K 1/10W	1	
	R3506	D0GB104JA065	100K 1/10W	1	
	R3507	D0GB3R3JA065	3.3 1/10W	1	
	R3508	D0GB3R3JA065	3.3 1/10W	1	
	R3509	D0GB104JA065	100K 1/10W	1	
	R3510	D0GB104JA065	100K 1/10W	1	
	R3511	D0GB3R3JA065	3.3 1/10W	1	
	R3512	D0GB3R3JA065	3.3 1/10W	1	
	R3517	D0GB104JA065	100K 1/10W	1	
	R3518	D0GB104JA065	100K 1/10W	1	
	R3519	D0GB3R3JA065	3.3 1/10W	1	
	R3520	D0GB3R3JA065	3.3 1/10W	1	
	R3521	D0GB104JA065	100K 1/10W	1	
	R3522	D0GB104JA065	100K 1/10W	1	
	R3523	D0GB3R3JA065	3.3 1/10W	1	
	R3524	D0GB3R3JA065	3.3 1/10W	1	
	R3533	D0GB822JA065	8.2K 1/10W	1	
	R3534	D0GB223JA065	22K 1/10W	1	
	R3535	D0GB104JA065	100K 1/10W	1	
	R3536	D0GB104JA065	100K 1/10W	1	
	R3537	D0GB472JA065	4.7K 1/10W	1	
	R3541	D0GB101JA065	100 1/10W	1	
	R3558	D0GB101JA065	100 1/10W	1	
	R3559	D0GBR00J0004	0 1/10W	1	
	R3560	D0GBR00J0004	0 1/10W	1	
	R3601	D0GBR00J0004	0 1/10W	1	
			PRINTED CIRCUIT BOARDS		
	PCB10	TNPA6844AG	CENTER ILLUMINATION L P.C.B.	1	(RTL) UA90PU-K
	PCB10	TNPA6963	CENTER ILLUMINATION L P.C.B.	1	(RTL) UA90PR-K
			CONNECTORS		
	CN800	K1KA02BA0061	CONNECTOR	1	
			DIODES		
	D800	B3AZB0000101	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			RESISTORS		
	R800	D1BB6800A073	680 1/10W	1	
	R801	D1BB1000A073	100 1/10W	1	
	R802	D1BB2700A073	270 1/10W	1	
			PRINTED CIRCUIT BOARDS		
	PCB11	TNPA6845AG	CENTER ILLUMINATION R P.C.B.	1	(RTL) UA90PU-K
	PCB11	TNPA6964	CENTER ILLUMINATION R P.C.B.	1	(RTL) UA90PR-K
			CONNECTORS		
	CN801	K1KA02BA0061	CONNECTOR	1	
			DIODES		
	D801	B3AZB0000101	DIODE	1	
	R803	D1BB6800A073	680 1/10W	1	
	R804	D1BB1000A073	100 1/10W	1	
	R805	D1BB2700A073	270 1/10W	1	
			PRINTED CIRCUIT BOARDS		
△	PCB12	TZTNP02AM5L	SMPS/AC INLET P.C.B.	1	
			CAPACITORS		
△	C1001	F0CAF104A105	0.1uF AC250 <= Vac <315	1	
△	C1006	F0CAF224A105	0.22uF AC250 <= Vac <315	1	
△	C1007	F1BAF471A215	470pF AC250 <= Vac <315	1	
△	C1008	F1BAF471A215	470pF AC250 <= Vac <315	1	
	C1201	F0CZZ225A172	2.2uF	1	
	C1203	F1H1H472B047	4700pF 50V	1	
	C1206	F1H1H103B047	0.01uF 50V	1	
	C1207	F1K1H475A234	4.7uF 50V	1	
	C1208	F1H1H472B047	4700pF 50V	1	
	C1209	F1K1H105A251	1uF 50V	1	
	C1211	F1K2J471A060	470pF 630V	1	
	C1213	F1B3D221A132	220pF 2000V	1	
	C1214	F1H1H103B047	0.01uF 50V	1	
	C1224	F2B2W2210030	220uF 450V	1	
	C1262	F1H1H104B047	0.1uF 50V	1	
	C1263	F1H0J1060006	10uF 6.3V	1	
	C1403	F2A2W1500006	15uF 450V	1	
	C1404	F1H1H104B047	0.1uF 50V	1	
	C1405	F1H1H102B047	1000pF 50V	1	
	C1406	F1K2J102A014	1000pF 630V	1	
	C1407	F1K1H105A251	1uF 50V	1	
	C1408	F2A1H221B436	220uF 50V	1	
△	C1409	F1BAF471A215	470pF AC250 <= Vac <315	1	
	C1411	F1H1H102B047	1000pF 50V	1	
	C1502	F2A1H101A147	100uF 50V	1	
	C1503	F1K1H475A234	4.7uF 50V	1	
	C1504	F1H1H103B047	0.01uF 50V	1	
	C1505	F1H1H104B047	0.1uF 50V	1	
	C1506	F1K1H475A234	4.7uF 50V	1	
	C1507	F1H1H104B047	0.1uF 50V	1	
	C1508	F1J1H152A623	1500pF 50V	1	
	C1509	F1H1H104B047	0.1uF 50V	1	
	C1510	F1K1E1060009	10uF 25V	1	
	C1511	F1J1H103A702	0.01uF 50V	1	
	C1512	F1H1H333B047	0.033uF 50V	1	
	C1513	F1B3D221A132	220pF 2000V	1	
	C1514	F1B3D221A132	220pF 2000V	1	
	C1516	F0C2K683A053	0.068uF 800V	1	
△	C1518	F1BAF471A215	470pF AC250 <= Vac <315	1	
	C1601	F2A1E221B422	220uF 25V	1	
	C1602	F1H1E224A068	0.22uF 25V	1	
	C1604	F1K2J471A060	470pF 630V	1	
	C1701	F1H1H103B047	0.01uF 50V	1	
	C1704	F1H1H104B047	0.1uF 50V	1	
	C1706	F2A1H1020067	1000uF 50V	1	
	C1708	F1H1H223B047	0.022uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1710	F1J2E1030004	0.01uF 250V	1	
	C1712	F1J2E1030004	0.01uF 250V	1	
	C1721	F1H1H103B047	0.01uF 50V	1	
	C1762	F1H1H104B047	0.1uF 50V	1	
	C1763	F1H0J1060006	10uF 6.3V	1	
	C1800	D0GDR00J0004	0 1/8W	1	
			CONNECTORS		
⚠	F1001	K2AA2B000011	AC INLET	1	
	CN1851	K1KA13AA0181	CONNECTOR	1	
			DIODES		
	D1001	B0FBBR000114	DIODE	1	
	D1201	B0AARR000022	DIODE	1	
	D1203	B0ECNR000003	DIODE	1	
	D1204	B0HAMP000094	DIODE	1	
	D1205	B0HAMP000094	DIODE	1	
	D1402	B0EDKT000007	DIODE	1	
	D1403	B0HAMP000094	DIODE	1	
	D1404	B0EAMM000057	DIODE	1	
	D1405	B0EAMM000057	DIODE	1	
	D1406	B0ECET000006	DIODE	1	
	D1416	DZ2J100M0L	DIODE	1	
	D1502	DZ2J120M0L	DIODE	1	
	D1503	B0HAMP000094	DIODE	1	
	D1504	B0JCPD000039	DIODE	1	
	D1505	B0JCPD000039	DIODE	1	
	D1506	B0EAMR000018	DIODE	1	
	D1601	B0EAMM000057	DIODE	1	
	D1703	B0FBCM000011	DIODE	1	
	D1705	B0FBCM000011	DIODE	1	
			FUSES		
⚠	F1001	K5D103BNA005	FUSE	1	
⚠	F1401	K5G501YA0081	FUSE	1	
⚠	F1501	K5G502Y00006	FUSE	1	
			INTEGRATED CIRCUITS		
	IC1201	C0DBBY00104	IC	1	(E.S.D)
	IC1402	MIP2F20MSSCF	IC	1	(E.S.D)
	IC1501	C0DBBY00077	IC	1	(E.S.D)
	IC1601	C0DAZY00039	IC	1	(E.S.D)
	IC1701	C0DAZY00039	IC	1	(E.S.D)
			INDUCTORS		
⚠	L1002	G0B502J00005	INDUCTOR	1	
	L1201	G0C281J00001	INDUCTOR	1	
	LB1501	J0JGC0000020	INDUCTOR	1	
	LB1502	J0JKB0000015	INDUCTOR	1	
			TRANSISTORS		
	Q1103	B1CERR000155	TRANSISTOR	1	
	Q1206	B1ABCF000176	TRANSISTOR	1	
	Q1265	B1ADCE000012	TRANSISTOR	1	
	Q1266	B1ABCF000176	TRANSISTOR	1	
	Q1402	B1ACKD000006	TRANSISTOR	1	
⚠	Q1403	B3PBA0000579	TRANSISTOR	1	
⚠	Q1404	B3PBA0000579	TRANSISTOR	1	
⚠	Q1405	B3PBA0000579	TRANSISTOR	1	
	Q1501	B1CERR000147	TRANSISTOR	1	
	Q1502	B1CERR000147	TRANSISTOR	1	
⚠	Q1505	B3PBA0000579	TRANSISTOR	1	
⚠	Q1701	B3PBA0000579	TRANSISTOR	1	
	Q1702	B1ABCF000176	TRANSISTOR	1	
	Q1765	B1ADCE000012	TRANSISTOR	1	
	Q1766	B1ABCF000176	TRANSISTOR	1	
	QR1267	B1GBCFJJ0041	TRANSISTOR	1	
	QR1601	B1GBCFLL0037	TRANSISTOR	1	
	QR1701	B1GBCFLL0037	TRANSISTOR	1	
	QR1720	B1GBCFLL0037	TRANSISTOR	1	
	QR1767	B1GBCFJJ0041	TRANSISTOR	1	
			RESISTORS		
⚠	R1001	D0GF105JA048	1M 1/4W	1	
⚠	R1002	D0GF105JA048	1M 1/4W	1	
⚠	R1003	D0GF105JA048	1M 1/4W	1	
	R1202	ERJ14YJ220U	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1203	D0MA39MJA029	39	1	
	R1204	D0MA39MJA029	39	1	
	R1205	D0GD273JA052	27K 1/8W	1	
	R1209	D0GD103JA052	10K 1/8W	1	
	R1217	D1BD6803A066	680K 1/8W	1	
	R1218	D1BD6803A066	680K 1/8W	1	
	R1219	D1BD6803A066	680K 1/8W	1	
	R1222	D1BD6803A066	680K 1/8W	1	
	R1229	D1BD3303A066	330K 1/8W	1	
	R1230	D1BD1802A066	18K 1/8W	1	
	R1233	D1BD5602A066	56K 1/8W	1	
	R1236	D0GD680JA052	68 1/8W	1	
	R1237	D1BD6803A066	680K 1/8W	1	
	R1238	D1BD6803A066	680K 1/8W	1	
	R1239	D1BD6803A066	680K 1/8W	1	
	R1240	D1BD6803A066	680K 1/8W	1	
	R1242	D1BD4702A066	47K 1/8W	1	
	R1243	D1BD6803A066	680K 1/8W	1	
	R1244	D1BB2702A074	27K 1/10W	1	
	R1245	D0GB102JA065	1K 1/10W	1	
	R1246	D0GB103JA065	10K 1/10W	1	
	R1255	D1BB1002A073	10K 1/10W	1	
	R1256	D1BB1002A073	10K 1/10W	1	
	R1257	D0GD103JA052	10K 1/8W	1	
	R1258	D1BB5601A074	5.6K 1/10W	1	
	R1259	D0GD103JA052	10K 1/8W	1	
	R1411	D0GB223JA065	22K 1/10W	1	
	R1412	D0GD474JA052	470K 1/8W	1	
	R1413	D0GD102JA052	1K 1/8W	1	
	R1414	D0GD103JA052	10K 1/8W	1	
	R1415	D0GZ104JA012	100K	1	
	R1417	D0GF224JA048	220K 1/4W	1	
	R1418	D0GF224JA048	220K 1/4W	1	
	R1419	D0GD220JA052	22 1/8W	1	
	R1420	D0GD824JA052	820K 1/8W	1	
	R1501	D1BD4703A066	470K 1/8W	1	
	R1502	D1BD4703A066	470K 1/8W	1	
	R1503	D1BD4703A066	470K 1/8W	1	
	R1504	D1BD4703A066	470K 1/8W	1	
	R1505	D0GD103JA052	10K 1/8W	1	
	R1507	D0GD224JA052	220K 1/8W	1	
	R1508	ERJ14YJ4R7U	INDUCTOR	1	
	R1509	ERJ14YJ4R7U	INDUCTOR	1	
	R1510	D0GD470JA052	47 1/8W	1	
	R1511	D0GD330JA052	33 1/8W	1	
	R1512	ERJ14YJ220U	INDUCTOR	1	
	R1513	ERJ14YJ220U	INDUCTOR	1	
	R1514	D0GD180JA052	18 1/8W	1	
	R1515	D0GD682JA052	6.8K 1/8W	1	
	R1516	D0GD473JA052	47K 1/8W	1	
	R1517	D0GD473JA052	47K 1/8W	1	
	R1518	ERX2SZJR10P	INDUCTOR	1	
	R1519	ERX2SZJR10P	INDUCTOR	1	
	R1601	D0GD331JA052	330 1/8W	1	
	R1602	D0GB151JA065	150 1/10W	1	
	R1603	D0GB752JA065	7.5K 1/10W	1	
	R1604	D1BB1002A074	10K 1/10W	1	
	R1605	D0GBR00J0004	0 1/10W	1	
	R1606	D1BB1002A074	10K 1/10W	1	
	R1607	D0GB222JA065	2.2K 1/10W	1	
	R1701	D0GD152JA052	1.5K 1/8W	1	
	R1702	D0GD272JA052	2.7K 1/8W	1	
	R1703	D0GD272JA052	2.7K 1/8W	1	
	R1704	D0GB104JA065	100K 1/10W	1	
	R1705	D0GB103JA065	10K 1/10W	1	
	R1706	D0GD103JA052	10K 1/8W	1	
	R1708	D1BB3302A074	33K 1/10W	1	
	R1709	D0GBR00J0004	0 1/10W	1	
	R1710	D1BB1801A074	1.8K 1/10W	1	
	R1711	D1BB2401A074	2.4K 1/10W	1	
	R1716	D0GD102JA052	1K 1/8W	1	
	R1717	D0GBR00J0004	0 1/10W	1	
	R1721	D1BB2402A074	24K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1724	D0GD561JA052	560 1/8W	1	
	R1725	D0GB472JA065	4.7K 1/10W	1	
	R1726	D0GB103JA065	10K 1/10W	1	
	R1755	D1BB1002A073	10K 1/10W	1	
	R1756	D1BB1002A073	10K 1/10W	1	
	R1757	D0GD103JA052	10K 1/8W	1	
	R1758	D1BB8201A074	8.2K 1/10W	1	
	R1852	D0GB103JA065	10K 1/10W	1	
	R5859	D0GD103JA052	10K 1/8W	1	
			TRANSFORMERS		
⚠	T1401	G4DYA0000592	TRANSFORMER	1	
⚠	T1501	G4DYA0000778	TRANSFORMER	1	
			THERMISTORS		
	TH1201	D4CC11040013	THERMISTOR	1	
	TH1701	D4CC11040013	THERMISTOR	1	
			RESISTORS		
	W200	D0GFR00J0005	0 1/4W	1	
	W201	D0GFR00J0005	0 1/4W	1	
	W202	D0GDR00J0004	0 1/8W	1	
	W203	D0GFR00J0005	0 1/4W	1	
	W204	D0GFR00J0005	0 1/4W	1	
	W205	D0GFR00J0005	0 1/4W	1	
	W30	D0GDR00J0004	0 1/8W	1	
			TERMINALS		
	ZJ1103	K4CZ01000027	TERMINAL	1	
	ZJ1004	K4CZ01000027	TERMINAL	1	
	ZJ1007	K4CZ01000027	TERMINAL	1	
			VARISTORS		
⚠	DZ1001	D4EAY511A127	VARISTOR	1	
			FUSE HOLDERS		
	ZA1002	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA1003	K3GE1ZZ00001	FUSE HOLDER	1	

15.2. Mechanical Replacement Part List

Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- All parts mentioned are supplied by PAVCJM unless indicated likewise.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	Sw:	Swedish
Cz:	Czech	Fr:	French	Po:	Polish	Co:	Traditional Chinese
Da:	Danish	Ge:	German	Ru:	Russian	Cn:	Simplified Chinese
Pe:	Persian	Ur:	Ukraine	Pr:	Portuguese	Fi:	Finnish

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	L0AA06A00117	TWEETER SPEAKER (6CM)	4	
	2	L0AA08A00057	WOOFER SPEAKER (8CM)	4	
	3	L6FAYYYH0352	FAN UNIT	2	
	4	REE1929	10P FFC (MAIN - CD MECHA)	1	
	5	REE2171	20P FFC (DAMP-MAIN)	1	
	6	REX1928-1	13P FLAT WIRE (SMPS-DAMP)	1	
	7	REX1929	9P FLAT WIRE (DAMP-MAIN)	1	
	8	REX1954	PRIMARY WIRE RED	1	
	9	REX1955	PRIMARY WIRE BLACK	1	
	10	RGK2649-S	CORNER HOLDER	4	
	11	RHD26046-L	SCREW	7	
	12	RHD26078	SCREW	5	
	13	RHDX031008	SCREW	6	
	14	RHDX301002	SCREW	13	
	15	RMN1049-K	FL HOLDER	1	
	16	RMQ1485	6CM UNIT EVA	4	
	17	TBA020K	REAR PANEL	1	UA90PU-K
	17	TBA020KA	REAR PANEL	1	UA90PR-K
	18	THEJ073C	SCREW	6	
	19	TKGN5003	LIGHT PANEL	1	

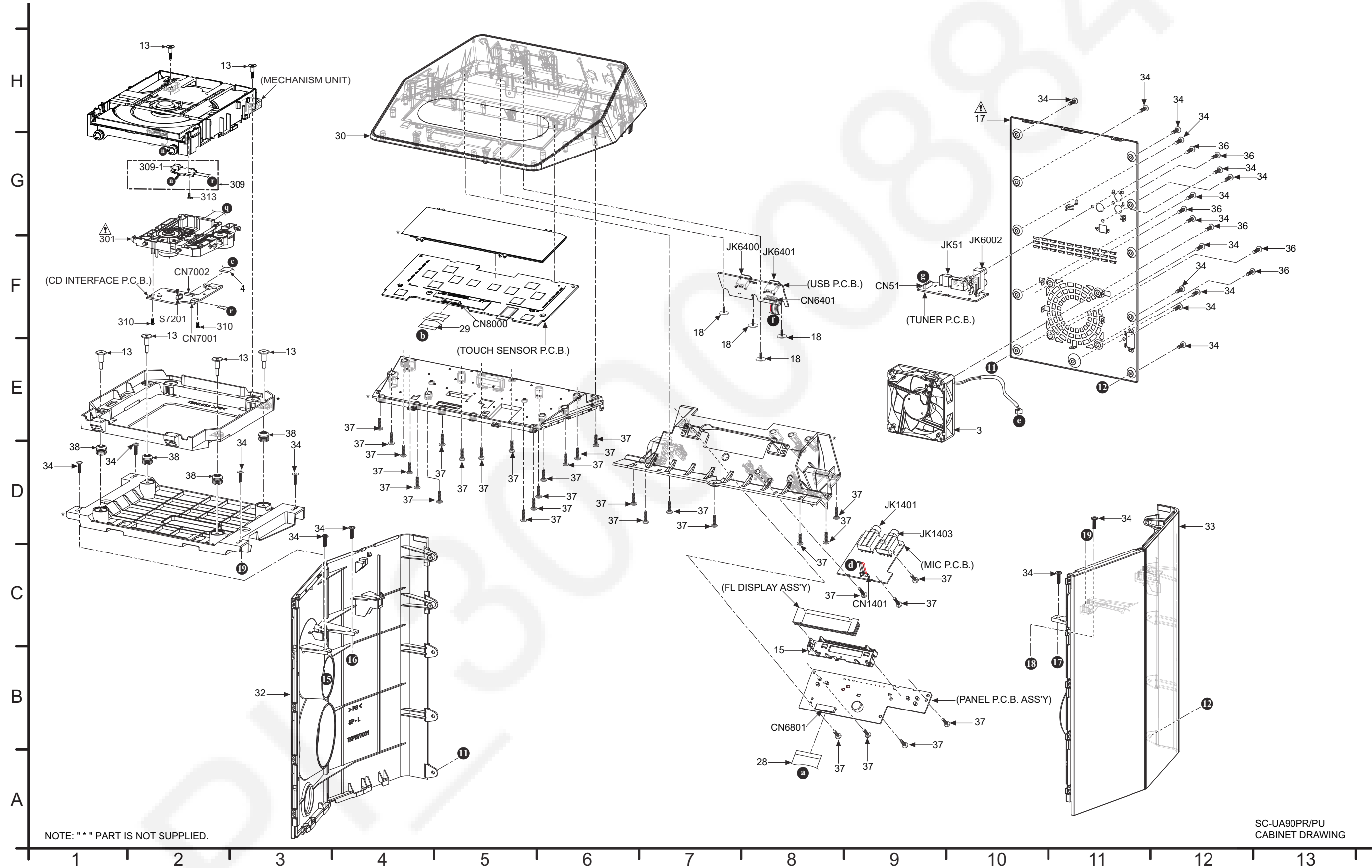
Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	20	TKPB77301	HOLDER TOP PLATE	1	
	21	TNMX027-1	4P WIRE TOP SPEAKER	1	
	22	TNMX114	7P FLAT WIRE (USB-MAIN)	1	
	23	TNMX116	4P FLAT WIRE (MIC-MAIN)	1	
	24	TNMX117	3P WIRE (IR TO MAIN)	1	
	25	TNMX118	4P WIRE (CENTER ILLUMINATION - MAIN)	1	
	26	TTJ0029	SW BOX UNIT	1	
	27	TZH3QKZ019	16P FFC (TUNER-MAIN)	1	
	28	TZH3QKZ026	24P FFC (PANEL-MAIN)	1	
	29	TZH3QKZ027	17P FFC (TOUCH SENSOR-MAIN)	1	
	30	TZTTP01AN2L	TOP CAB UNIT ASS'Y	1	
	31	TZTTP02AN2L	UPPER FRONT PANEL ASS'Y	1	
	32	TZTTP03AN2L	LEFT SIDE PANEL ASS'Y	1	
	33	TZTTP04AN2L	RIGHT SIDE PANEL ASS'Y	1	
	34	XTB3+10JFJK	SCREW	51	
	35	XTB3+12JFJK	SCREW	22	
	36	XTB3+8JFJK	SCREW	6	
	37	THEC327C	SCREW	31	
	38	RMG0968-G	REAR DAMPER	4	
	39	XTB3+10JFJ	SCREW	34	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			TRAVERSE DECK		
⚠	301	TXQ0035	TRAVERSE ASS'Y	1	(E.S.D)
	309	TZTEP01AD1L	LOADING P.C.B. ASS'Y	1	
	309-1	K0L1CB000004	SW LOADING	1	
	310	XTN2+6GFJ	SCREW	2	
	313	VHD1224-1	SCREW	1	
			PACKING MATERIALS		
	P1	TPCE02901A	PACKING CASE	1	UA90PU-K
	P1	TPCE03001	PACKING CASE	1	UA90PR-K
	P2	TPH0168	POLYFOAM UNIT	1	
	P3	TPEH924	MIRAMAT BAG	1	
			ACCESSORIES		
	A1	N2QAYB001198	REMOTE CONTROL	1	
⚠	A2	K2CQ2YY00107	AC CORD	1	UA90PU-K
⚠	A2	K2CA2YY00039	AC CORD	1	UA90PR-K
⚠	A3	TQBJ2147	O/I (EN)	1	UA90PU-K
⚠	A3	TQBJ2148	O/I (SP)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	K2DAYYY00002	AC PLUG ADAPTOR	1	UA90PU-K

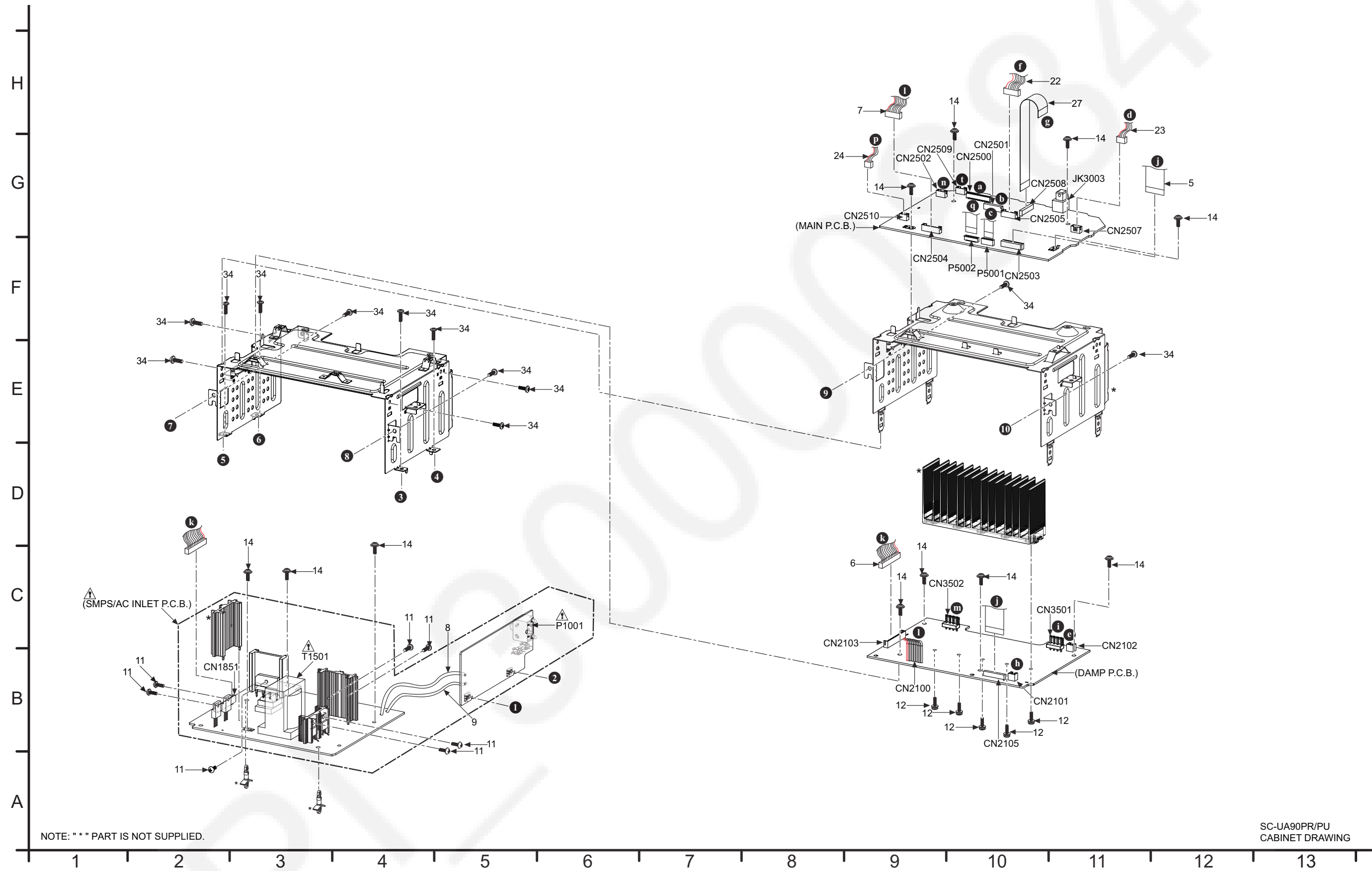
PL/30000884

15.3. Exploded View

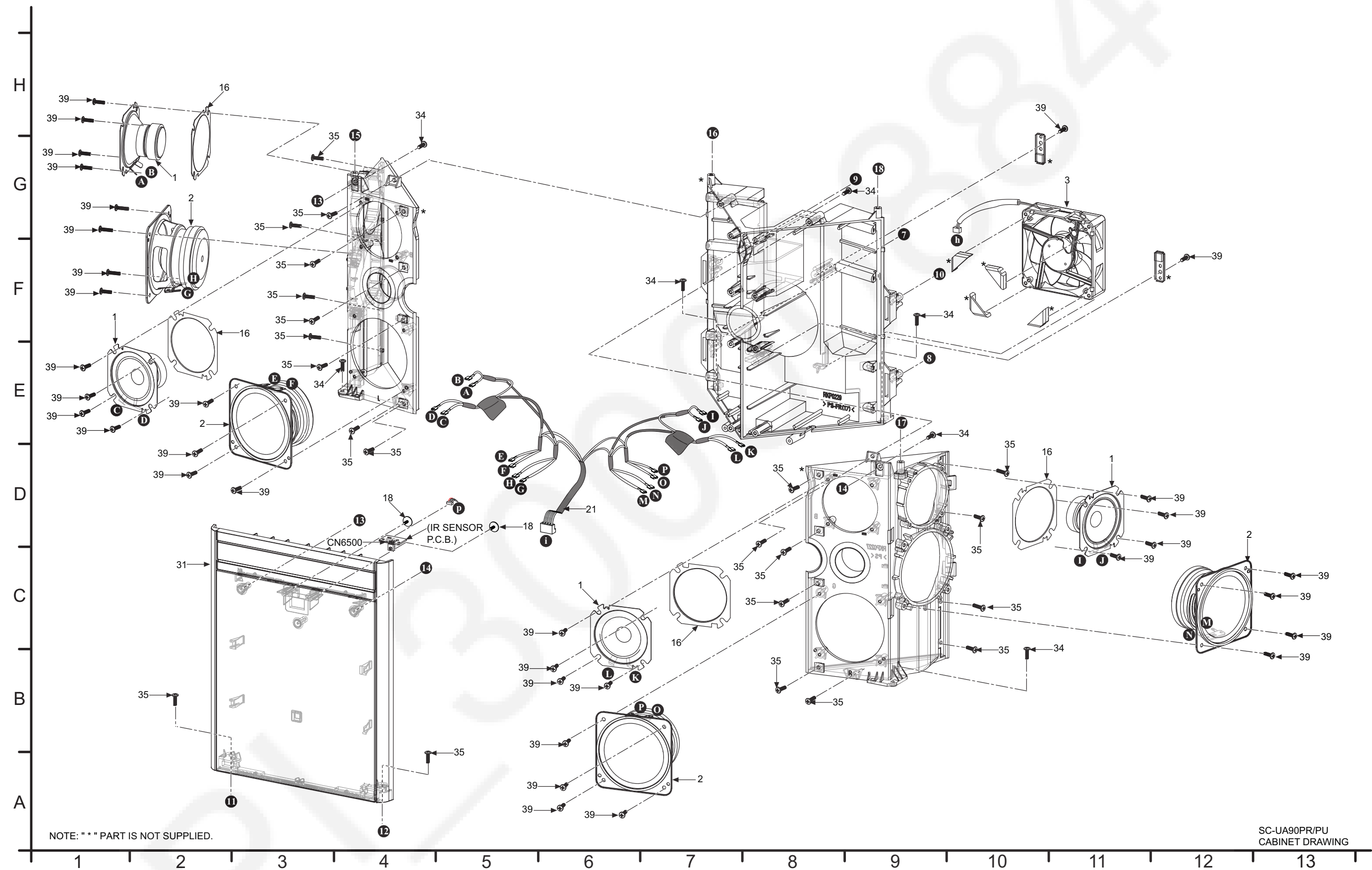
15.3.1. Cabinet Parts Location 1



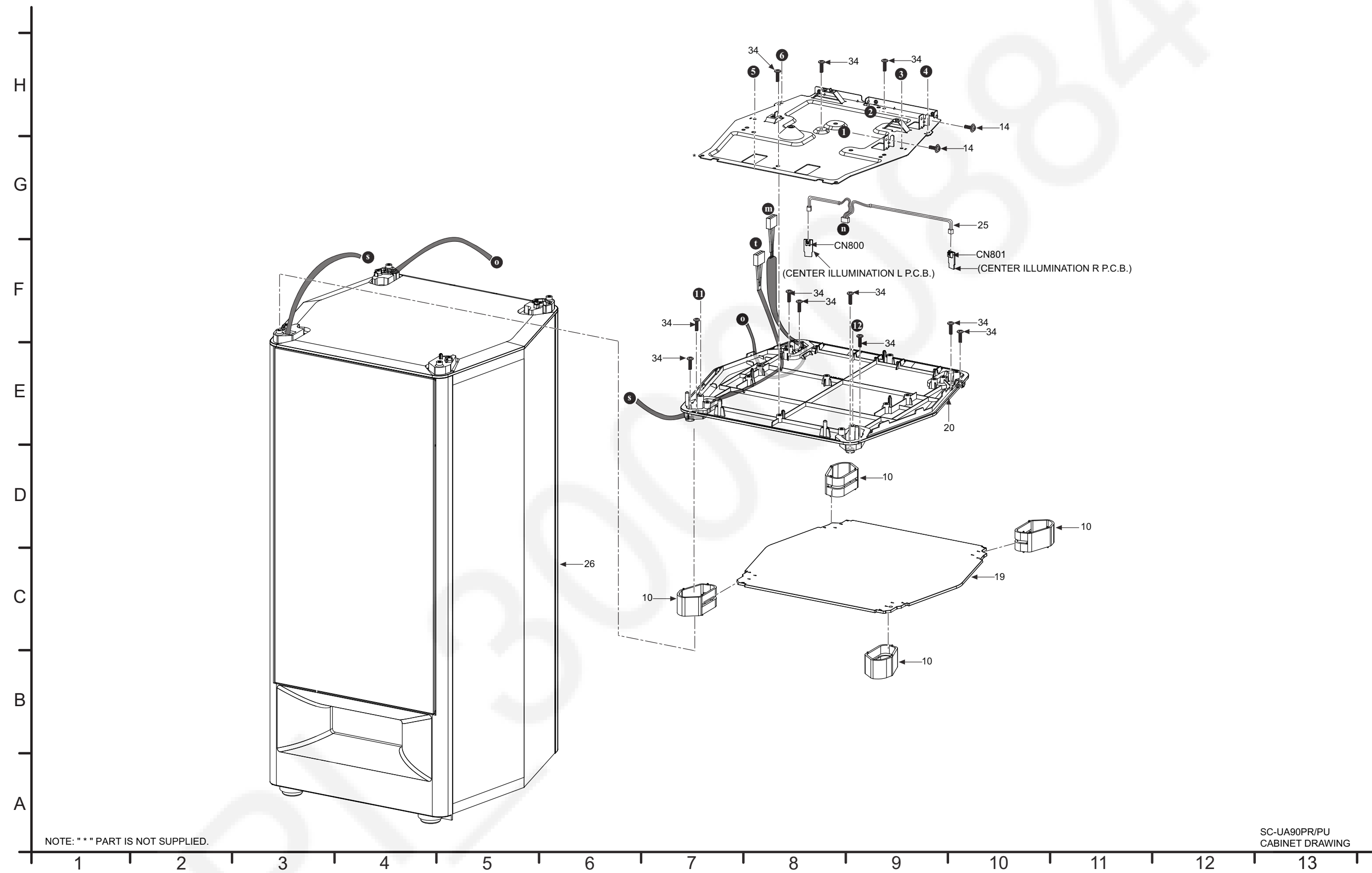
15.3.2. Cabinet Parts Location 2



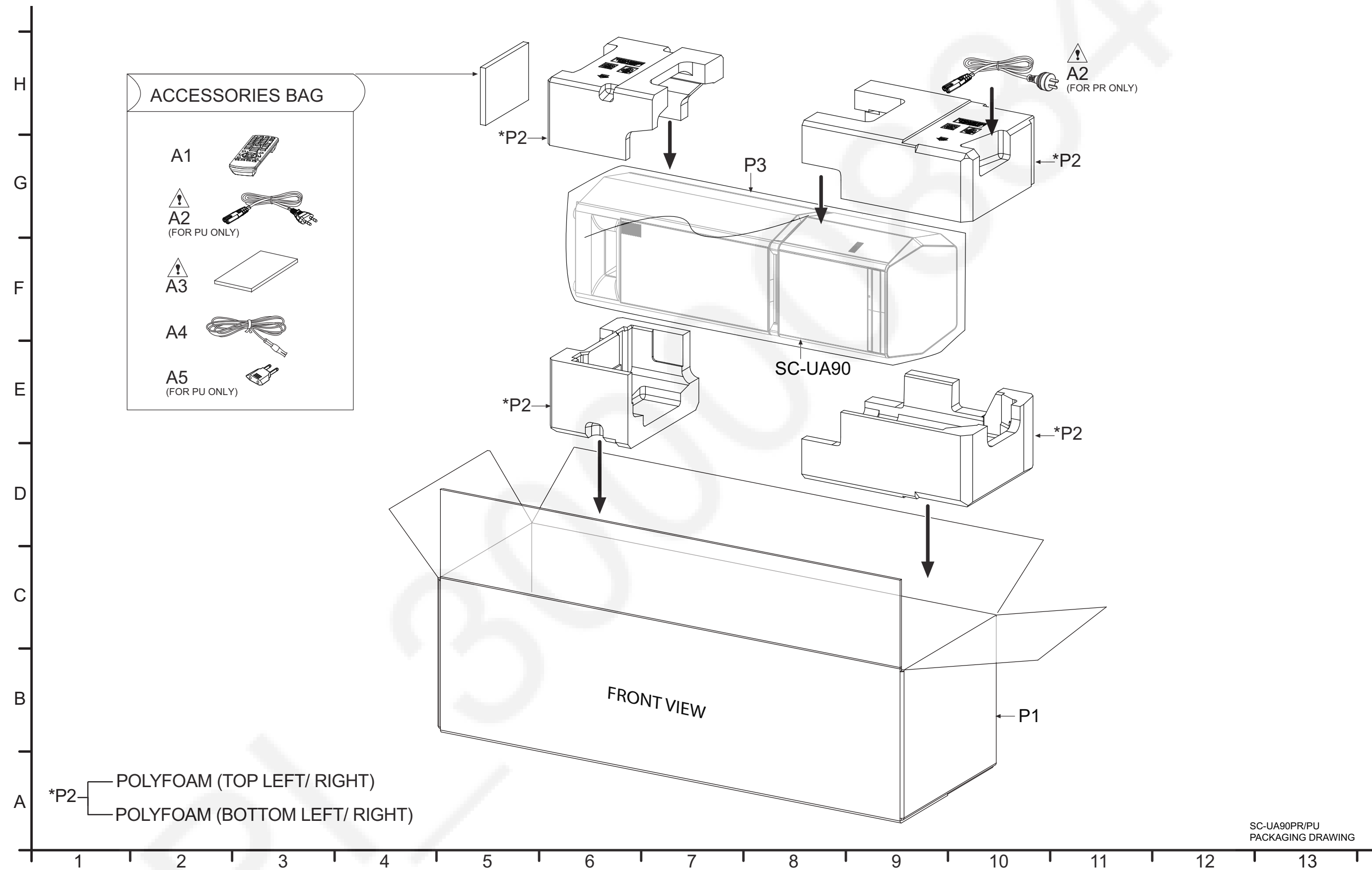
15.3.3. Cabinet Parts Location 3



15.3.4. Cabinet Parts Location 4



15.3.5. Packaging



PI 30000884