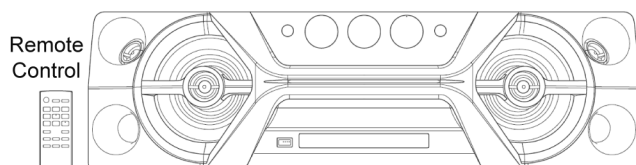


Service Manual

CD Stereo System

Model No. **SC-UA3E**
SC-UA3GN
SC-UA3PR
SC-UA3PU



SC-UA3

Product Color: (K)...Black Type

Please refer to the original service manual for:
 ● CD Mechanism Unit (BRS12C), Order No. PSG1303059AE

⚠ 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.

TABLE OF CONTENTS

	PAGE		PAGE
1 Safety Precautions -----	3	5.1. Remote Control Key Button Operation -----	12
1.1. General Guidelines-----	3	5.2. Main Unit Key Button Operation-----	13
1.2. Before Repair and Adjustment -----	4	6 Service Mode -----	14
1.3. Protection Circuitry-----	4	6.1. Cold-Start -----	14
1.4. Caution For AC Cord (For E/GN)-----	5	6.2. Sales Demonstration Lock Function -----	14
1.5. Safety Parts Information -----	6	6.3. Doctor Mode Table-----	15
2 Warning -----	7	6.4. Self-Diagnostic Mode -----	17
2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices-----	7	6.5. Self-Diagnostic Error Code Table -----	17
2.2. Precaution of Laser Diode-----	7	7 Troubleshooting Guide -----	19
2.3. General description about Lead Free Solder (PbF)-----	8	7.1. No Power or No Display-----	19
2.4. Handling Precautions for Traverse Unit-----	8	7.2. Bluetooth® Pairing Failure-----	19
2.5. Grounding for electrostatic breakdown prevention -----	9	7.3. No Key Function-----	19
3 Service Navigation -----	10	7.4. No Remote Control Function-----	20
3.1. Service Information -----	10	7.5. USB Device Cannot Detect-----	20
4 Specifications -----	11	7.6. No Output Sound-----	20
5 Location of Controls and Components -----	12	7.7. Check Point-----	21
		8 Disassembly and Assembly Instructions -----	22
		8.1. Types of Screws-----	22
		8.2. Disassembly Flow Chart -----	23

8.3. Main Components and P.C.B. Locations	23
8.4. Disassembly of Front Panel Unit	24
8.5. Disassembly of Panel P.C.B.	25
8.6. Disassembly of USB P.C.B.	25
8.7. Disassembly of Front Speakers (SP5 and SP6)	25
8.8. Disassembly of Front Speakers (SP3 and SP4)	26
8.9. Disassembly of Front Speakers (SP1 and SP2)	26
8.10. Disassembly of LED P.C.B.	26
8.11. Disassembly of Mic P.C.B. (For E/PR/PU)	27
8.12. Disassembly of Main P.C.B.	27
8.13. Disassembly of SMPS Module	28
8.14. Disassembly of CD Mechanism Unit	29
8.15. Disassembly of CD Interface P.C.B.	31
9 Service Position	32
9.1. Checking of Main P.C.B. and SMPS Module	32
10 Block Diagram	33
10.1. System Control	33
10.2. Audio (1/2)	34
10.3. Audio (2/2)	35
10.4. Power Supply	36
11 Wiring Connection Diagram	37
12 Schematic Diagram	39
12.1. Schematic Diagram Notes	39
12.2. Main (Micon) Circuit (1/2)	41
12.3. Main (Micon) Circuit (2/2)	42
12.4. Main (Connector), Main (Bluetooth) and Main (Fan LED) Circuit	43
12.5. Main (FE) Circuit	44
12.6. Main (DAMP) Circuit	45
12.7. Main (DSP) Circuit	46
12.8. Main (OPT_SRC) Circuit	47
12.9. Main (Tuner AUX) and Main (USB) Circuit	48
12.10. Main (Voltage Regulator) Circuit	49
12.11. Panel Circuit	50
12.12. Mic (For E/PR/PU), USB, LED, CD Interface Circuit	51
13 Printed Circuit Board	52
13.1. Main P.C.B. (Side A)	52
13.2. Main P.C.B. (Side B)	53
13.3. Panel, Mic (For E/PR/PU) and USB P.C.B.	54
13.4. LED and CD Interface P.C.B.	55
14 Voltage and Waveform Measurement	57
14.1. Voltage Measurement	57
15 Exploded View and Replacement Parts List	61
15.1. Cabinet Parts Location 1	61
15.2. Cabinet Parts Location 2	62
15.3. Packaging	63
15.4. Mechanical Replacement Part List	65
15.5. Electrical Replacement Parts List	67

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 $\triangle$ 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.
2. 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.
 3. 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.
 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
 5. 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.

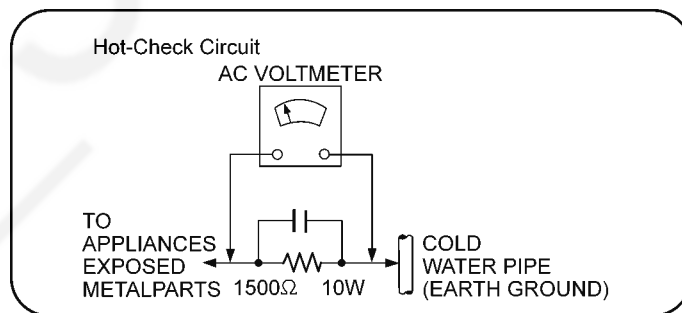
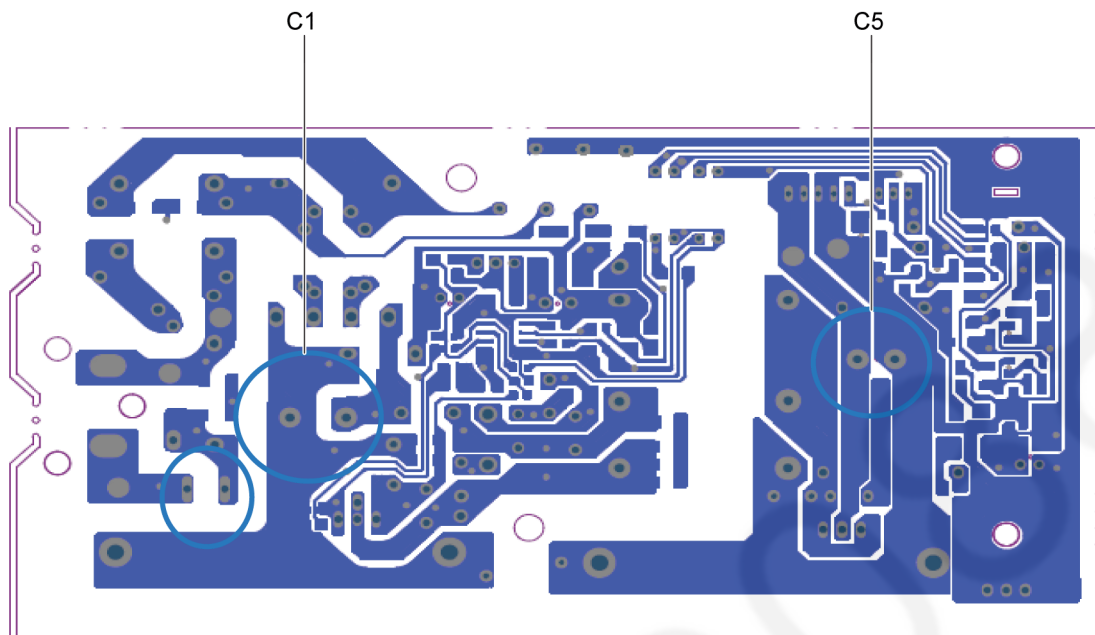


Figure 1-1

1.2. Before Repair and Adjustment

Disconnect AC power to discharge AC capacitor (in SMPS Module) as indicate below diagram through a 10 Ω , 10 W resistor to ground.



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 Hz in Power ON, FM Tuner at volume minimal mode should be ~ 150 mA (for E/GN).

Current consumption at AC 110~240 V, 50/60 Hz in Power ON, FM Tuner at volume minimal mode should be ~ 150 mA (for PU).

Current consumption at AC 220~240 V, 50/60 Hz in Power ON, FM Tuner at volume minimal mode should be ~ 150 mA (for PR).

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. Caution For AC Cord (For E/GN)

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

Before use

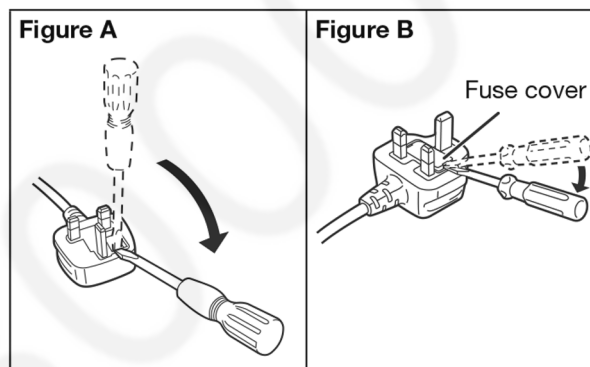
Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.

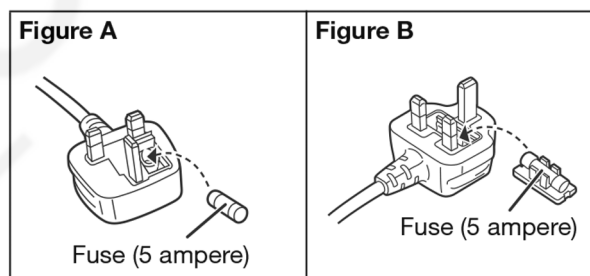


Figure 1-3

1.5. Safety Parts Information

Safety Parts List:

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

These parts are marked by ⚠ 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	Remarks
⚠	8	RFKHSCUA3PUK	REAR CABINET ASS'Y	UA3PU-K
⚠	17	TBMK4906	NAMEPLATE	UA3E-K
⚠	17	TBMK4904	NAMEPLATE	UA3GN-K
⚠	17	TBMK4902	NAMEPLATE	UA3PR-K
⚠	301	TXQ0011	TRAVERSE ASS'Y	(E.S.D)
⚠	A2	K2CT2YY00089	AC CORD	UA3E-K
⚠	A2	K2CQ2YY00107	AC CORD	UA3E-K, UA3PU-K
⚠	A2	K2CJ2YY00084	AC CORD	UA3GN-K
⚠	A2	K2CA2YY00039	AC CORD	UA3PR-K
⚠	A3	TQBJ2015	OI (En/Sw/Da/Fi)	UA3E-K
⚠	A3	TQBJ2016	OI (Ge/Fr/It/Du)	UA3E-K
⚠	A3	TQBJ2017	OI (Sp/Po/Cz)	UA3E-K
⚠	A3	TQBJ2013	OI (En)	UA3GN-K
⚠	A3	TQBJ2011	OI (Sp)	UA3PR-K, UA3PU-K
⚠	A3	TQBJ2010	OI (En)	UA3PU-K
⚠	PCB7	N0AE1GN00001	SMPS MODULE	UA3E-K, UA3GN-K
⚠	PCB7	N0AE1GN00003	SMPS MODULE	UA3PR-K, UA3PU-K

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).

IMPORTANT SAFETY NOTICE

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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.

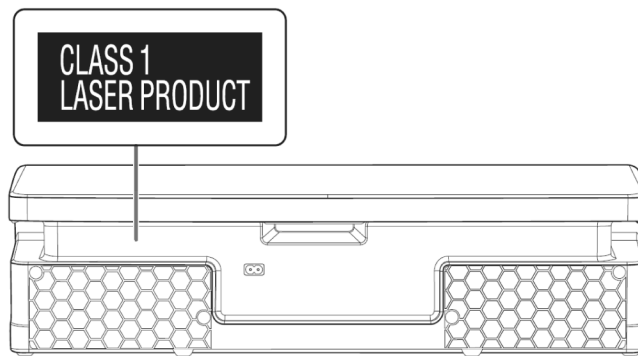


Figure 2-1

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 ($662 \pm 86^\circ\text{F}$).

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.

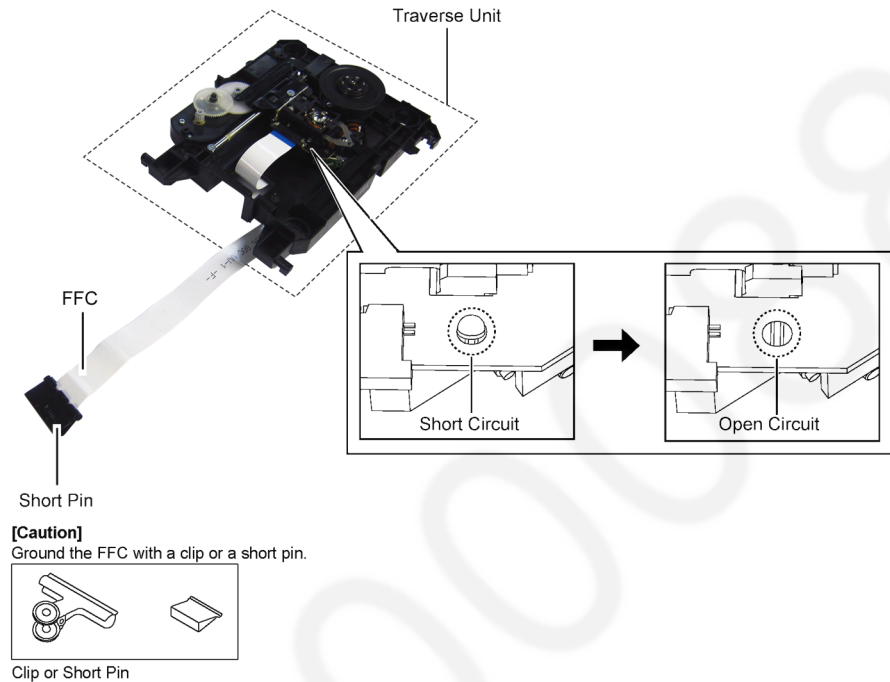


Figure 2-2

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 2-3).

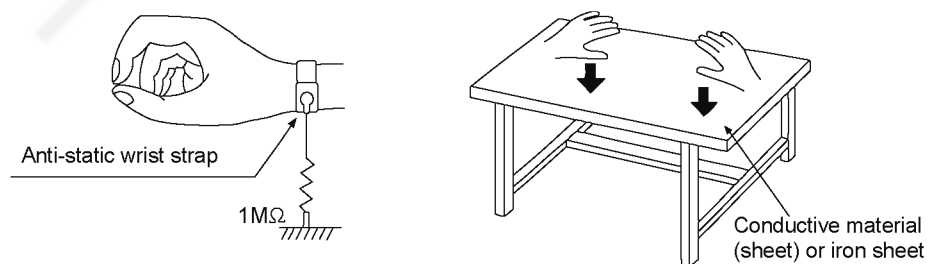


Figure 2-3

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) 150 W per channel (4 Ω ,
1 kHz, 30% THD)

Total RMS stereo mode power 300 W

PMPO output power (For PR/PU) 3300 W

■ Tuner section

Frequency modulation (FM)

Preset memory

Frequency range FM 30 stations
87.50 MHz to 108.00 MHz
(50 kHz step)

Antenna terminals 75 Ω (unbalanced)

■ Disc section

Discs played (8 cm or 12 cm)

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

* MPEG-1 Layer 3

Pick up

Wavelength 790 nm (CD)

■ Terminal 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 (for PR/PU)

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

Digital audio input

Optical digital input Optical terminal
Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96
kHz

Analog audio input

Audio input Pin jack (1 system)

Microphone (For E/PR/PU)

Terminal Mono, 6.3 mm jack (2 systems)

■ Bluetooth® section

Version

Bluetooth® Ver.2.1 + EDR

Class

Class 2

Supported profiles

A2DP, AVRCP, SPP (E/GN)
A2DP, AVRCP, SPP, FTP (PU/
PR)

Operating frequency

2402 MHz to 2480 MHz (for E)
2.4 GHz band, FH-SS (for GN/
PU/PR)

Maximum power (dBm e.i.r.p.) (for E)

6 dBm

Operating distance

10 m line of sight

■ General

Power supply

AC 220 to 240 V, 50 Hz (for E/
GN/PR)

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

Power consumption

51 W

For Mexico

Power consumption per day 51 Wh per day (51 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)

650 mm x 196 mm x 274 mm

Mass

6.1 kg (for E/GN)
6.0 kg (for PR/PU)

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

Power Consumption in standby mode (approximate)

0.6 W

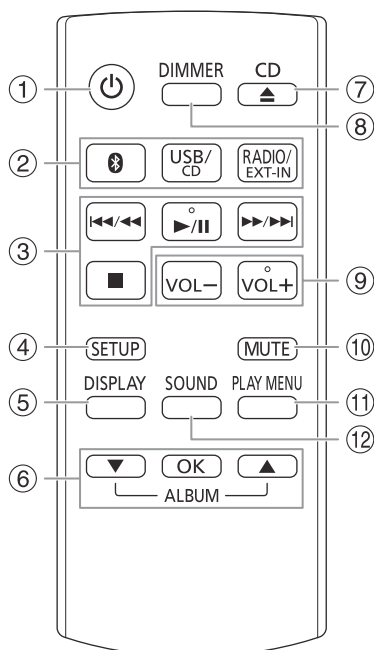
(With "BLUETOOTH STANDBY" set
to "ON")

Note:

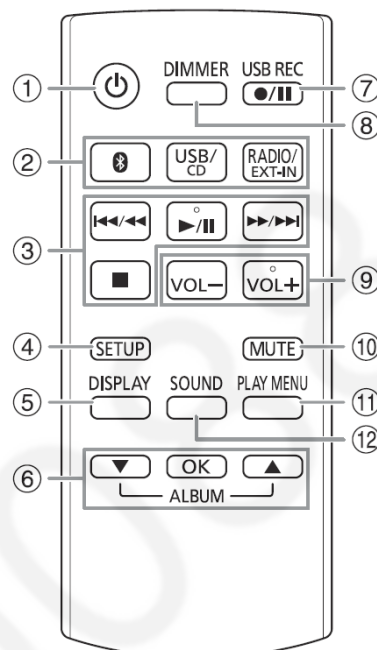
1. Specifications are subject to change without notice.
Mass and dimension are appropriate
2. Total harmonic distortion is measured by the digital spectrum
analyzer.

5 Location of Controls and Components

5.1. Remote Control Key Button Operation



(For E/GN)



(For PR/PU)

① **Standby/on switch** [⏻]

Press 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.

② **Select the audio source**

On the unit:

To start Bluetooth® pairing, press and hold [📶].

③ **Basic playback control**

④ **View the setup menu**

⑤ **View the content information**

⑥ **Select or confirm the option**

⑦ **Open or close the disc tray (For E/GN)**

⑦ **Recording operation control (For PR/PU)**

⑧ **Decrease the brightness of the display panel**

The illumination is also switched off.
To cancel, press the button again.

⑨ **Adjust the volume level**

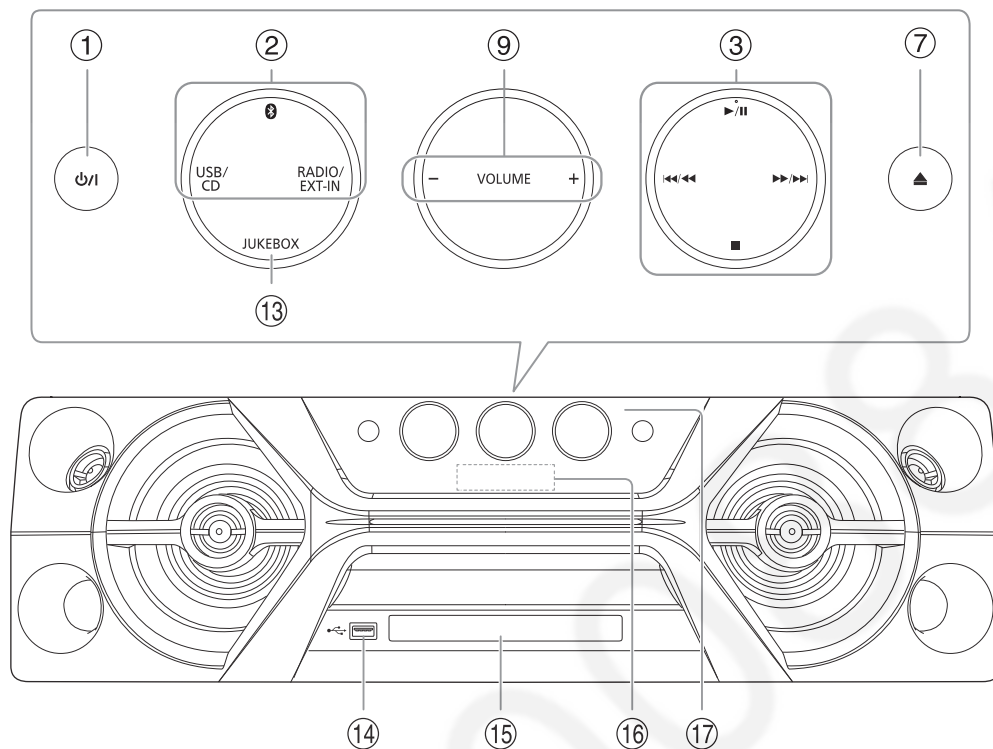
⑩ **Mute the sound**

To cancel, press the button again.
“MUTE” is also cancelled when you adjust the volume or when you switch off the system.

⑪ **View the play menu**

⑫ **Select the sound effects**

5.2. Main Unit Key Button Operation



① **Standby/on switch** [⏻/⏻]

Press 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.

② **Select the audio source**

On the unit:

To start Bluetooth® pairing, press and hold [📶].

③ **Basic playback control**

⑦ **Open or close the disc tray**

⑨ **Adjust the volume level**

⑬ **Select the jukebox**

⑭ **USB port** (🔌)

⑮ **Disc tray**

⑯ **Display panel**

⑰ **Remote control sensor**

Distance: Within approximately 7 m

Angle: Approximately 20° up and down, 30° left and right

6 Service Mode

Remote control with numeric button (Example: N2QAYB001019 (AKX220))

6.1. Cold-Start

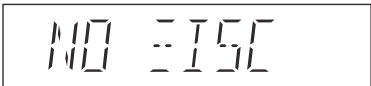
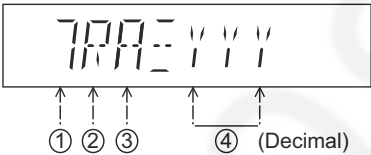
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Cold Start	To carry out cold-start or initialize to shipping mode	----- ↓ AC OUT	In CD Mode: 1. Press & hold [■] button follow by [JUKEBOX] on main unit for more than 2 seconds. 2. Press [SETUP] button on remote control.

6.2. Sales Demonstration Lock Function

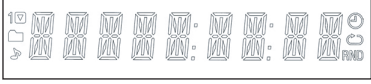
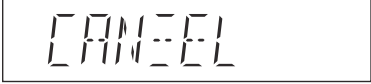
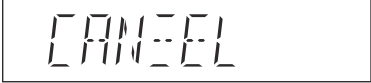
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Entering into Sales Demonstration Lock Mode	To enter into the sales demonstration lock mode.	--LOCK--	1. Turn on the unit. 2. Select to any mode function. 3. Press and hold [▲OPEN/CLOSE] and [USB/CD] keys for 5 sec or more. The display will show upon entering into this mode for 2 sec. Note: [▲OPEN/CLOSE] button is invalid and the main unit displays "LOCK" while the lock function mode is entered.
Cancellation of Sales Demonstration Lock Mode	To cancel the sales demonstration lock mode.	--UNLOCK--	1. Turn on the unit. 2. Select to CD mode function. 3. Set volume to Vol 19. 4. Press and hold [▲OPEN/CLOSE] and [USB/CD] keys for 5 sec or more. The display will show upon entering into this mode for 2 sec.

6.3. Doctor Mode Table

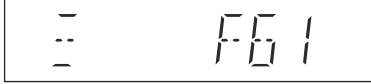
6.3.1. Doctor Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode		In CD Mode: 1. Press [■] button on main unit follow by [4] and [7] on remote control. 2. To exit, press [SLEEP] button on remote control or, press [POWER, ⏻] button on Main Unit
EEPROM checksum check	Displaying of 1. Year Develop. 2. Model Type. 3. ROM Type. 4. Firmware Version.	(Display 1)  Version No. (001 ~ 999) →specific for each firmware	In CD mode: 1. Enter into Doctor Mode
Cold Start	To active cold start upon next AC power up when reset start is execute the next time.		In Doctor Mode: 1. Press [4] button on the remote control.

6.3.2. Doctor Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Volume Setting Check	To check the volume setting of the main unit.	 Press [7]: VOL50 Press [8]: VOL35 Press [9]: VOL0 Volume	In Doctor Mode: 1. Press [7], [8], [9] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
FL Display Check	To check the FL segment display. All segments will light up while all LED blink at 0.5s intervals.		In Doctor mode: 1. Press [1] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Traverse Test	To determine the traverse unit operation for inner & outer access track. In this mode, ensure the CD is in the main unit.	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10] → [1] → [2] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Reliability Test (Combination)	To determine the traverse unit operation & open/close operation of the mechanism. In this mode, ensure the CD is in the main unit.	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10] → [1] → [5] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.
Loading Test	To determine the open & close operation of the CD Mechanism Unit. In this mode, the tray will open & close automatically.	 The counter will increment by one. When reach 99999999 will change to 00000000 Cancellation Display 	In Doctor Mode: 1. Press [10] → [2] → [1] button on the remote control. 2. To cancel this mode, press [0] button on the remote control.

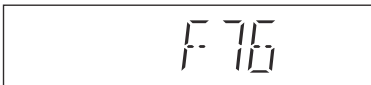
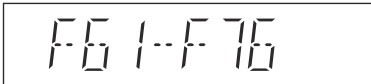
6.4. Self-Diagnostic Mode

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Self Diagnostic Mode	To enter into self diagnostic checking		Step 1: Select CD mode (Ensure no disc is inserted). Step 2: Press & hold [■] button follow by [JUKEBOX] on main unit for 2 seconds.
Error Code Information	System will perform a check on any unusual/error code from the memory	Example: 	Step 1: In self diagnostic mode, Press [■] on main unit. To exit, press [⏻/I] on main unit or remote control.
Delete error code	To clear the stored in memory (EEPROM IC)		Step 1: In self diagnostic mode, Press [0] on remote control. To exit, press [⏻/I] on main unit or remote control.

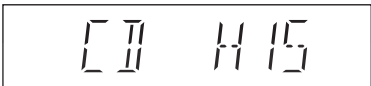
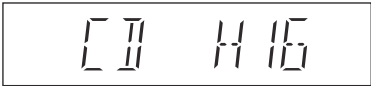
6.5. Self-Diagnostic Error Code Table

Self-Diagnostic Function 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 self-diagnostic mode.

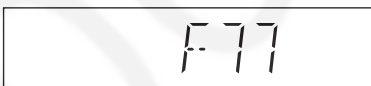
6.5.1. Power Supply Error Code Table

Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code F61	Diagnosis Contents: Power Amp IC output abnormal. Upon power on, PCONT=HIGH, DC_DET_AMP after checking LSI.		Press [■] on main unit for next error.	Check main (IC6000).
Error Code F76	Diagnosis Contents: Power Amp IC output abnormal. DC_DET_PWR.		Press [■] on main unit for next error.	Check SMPS Module (Main Q1011 / IC1000).
Error Code F61-76	Diagnosis Contents: Power Amp IC output abnormal. Both DCDet (NG).		Press [■] on main unit for next error.	DAMP and power supply abnormal.

6.5.2. CD Mechanism Error Code Table

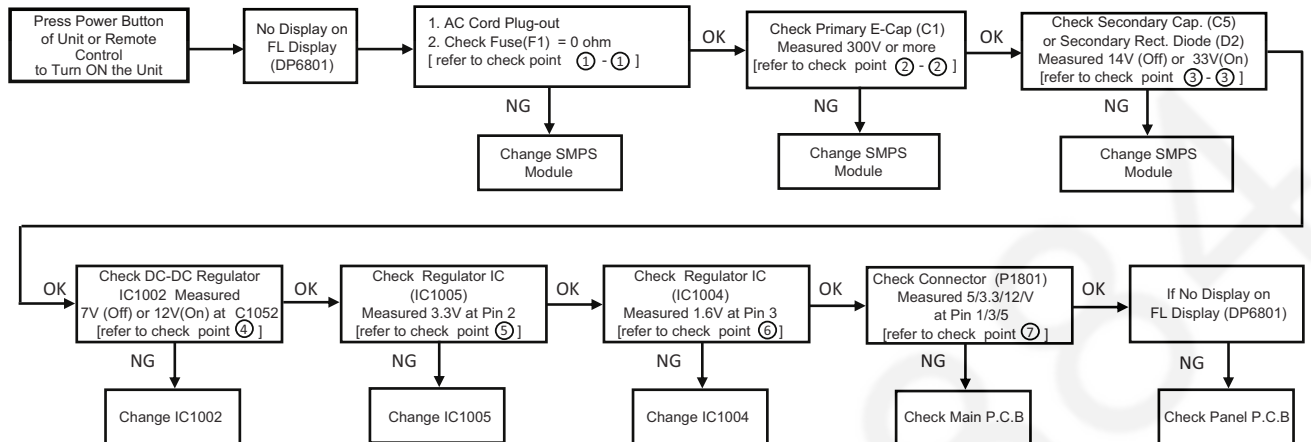
Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code CD H15	Diagnosis Contents: CD Open Abnormal. During operation POS_SW_R On fail to be detected within 4 sec. Error No. shall be clear by force or during cold start.		Press [■] on main unit for next error.	Check following: 1. CD Interface P.C.B. (Pin 3, 4, 6) 2. SOC IC (IC2001)
Error Code CD H16	Diagnosis Contents: CD Closing Abnormal. During operation POS_SW_CEN On fail to be detected within 4 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 (IC2001)

6.5.3. Bluetooth Error Code Table

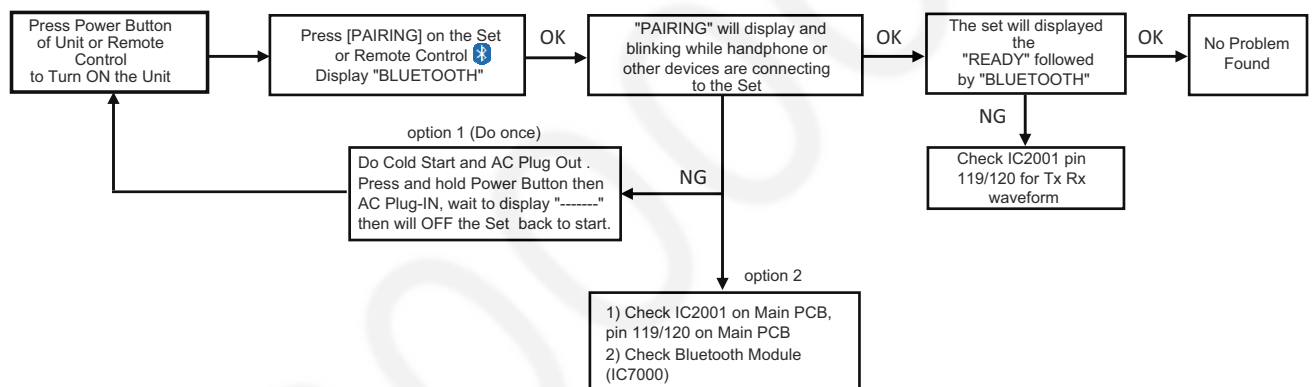
Item		FL Display	Key Operation	Solution (PCB exchange repair)
Mode Name	Description		Front Key	
Error Code F703	Diagnosis Contents: Bluetooth Communication. Communication between Bluetooth module and micro-p abnormal.		Press [■] on main unit for next error.	Check following: 1. Bluetooth P.C.B. 2. SOC 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.		Press [■] on main unit for next error.	Check following: 1. EEPROM IC (IC2002) on Main P.C.B.

7 Troubleshooting Guide

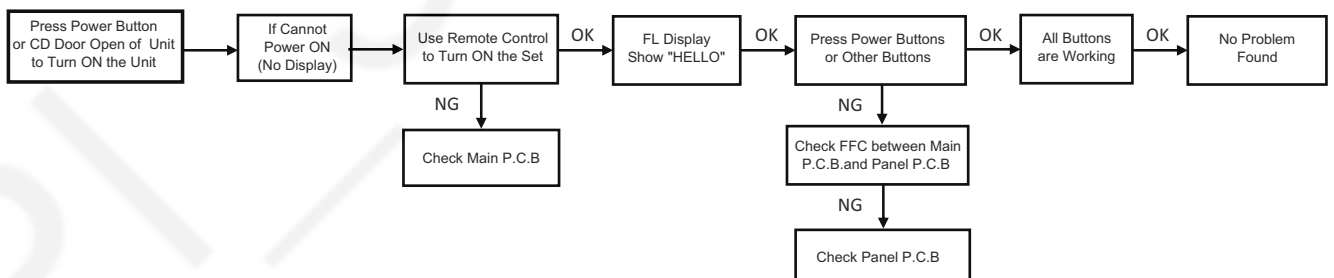
7.1. No Power or No Display



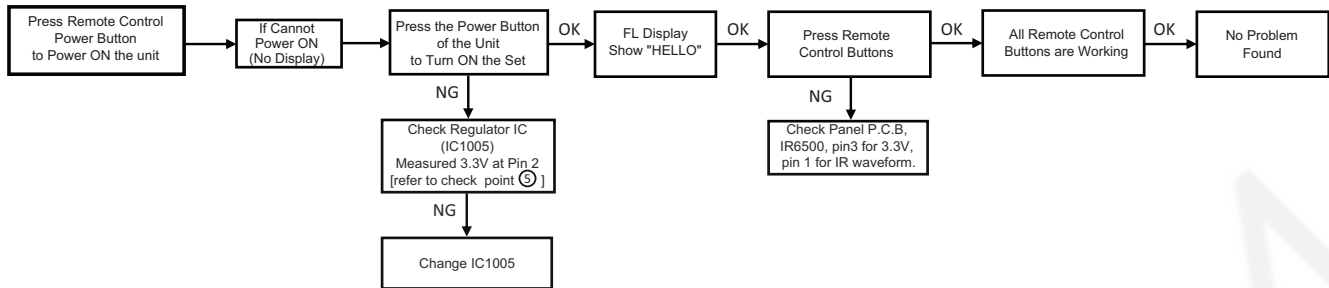
7.2. Bluetooth® Pairing Failure



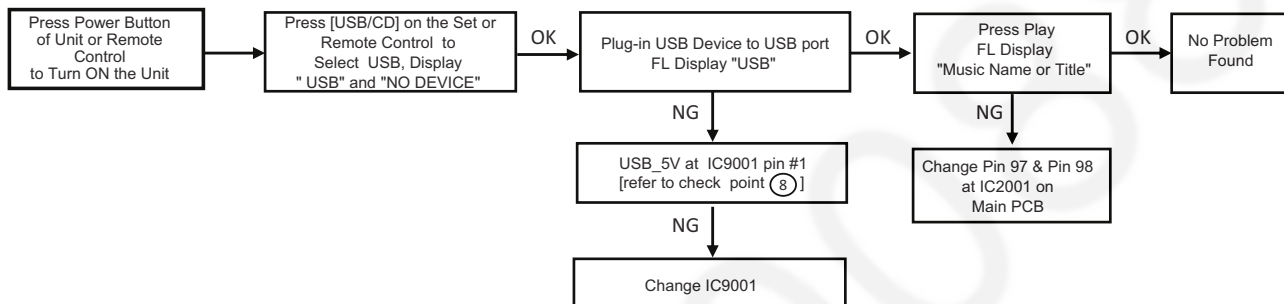
7.3. No Key Function



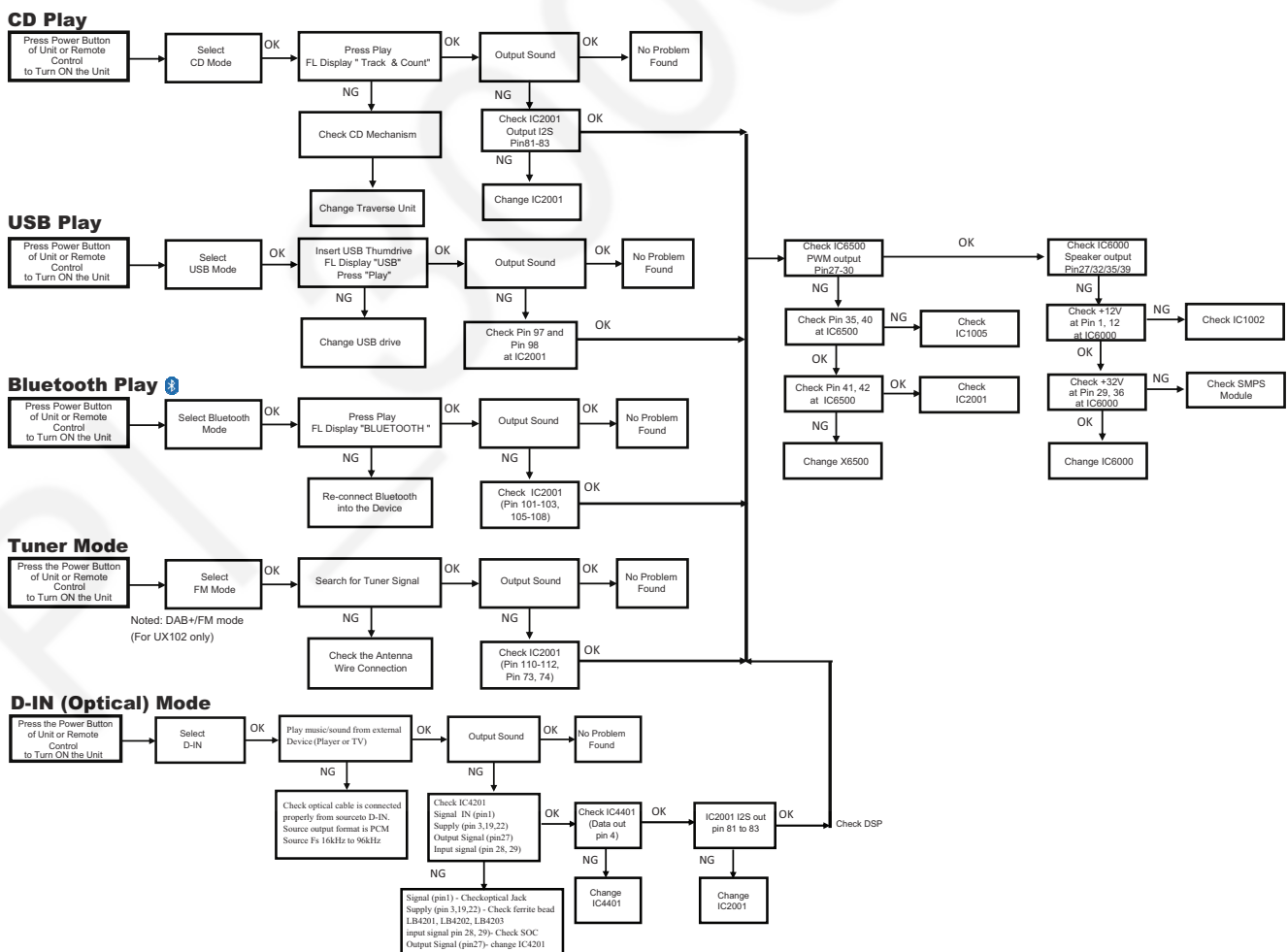
7.4. No Remote Control Function



7.5. USB Device Cannot Detect

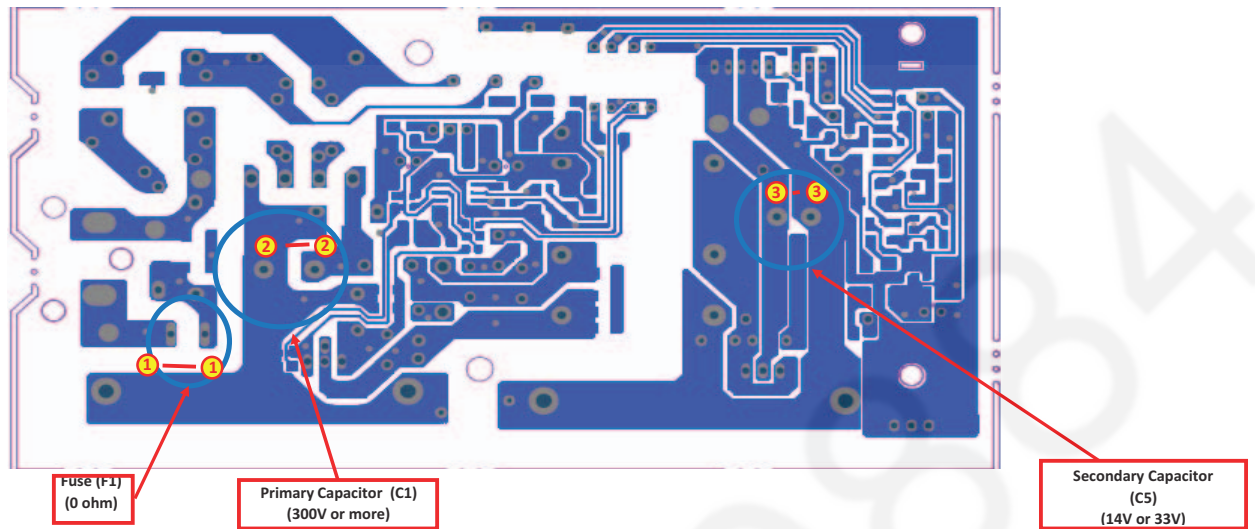


7.6. No Output Sound

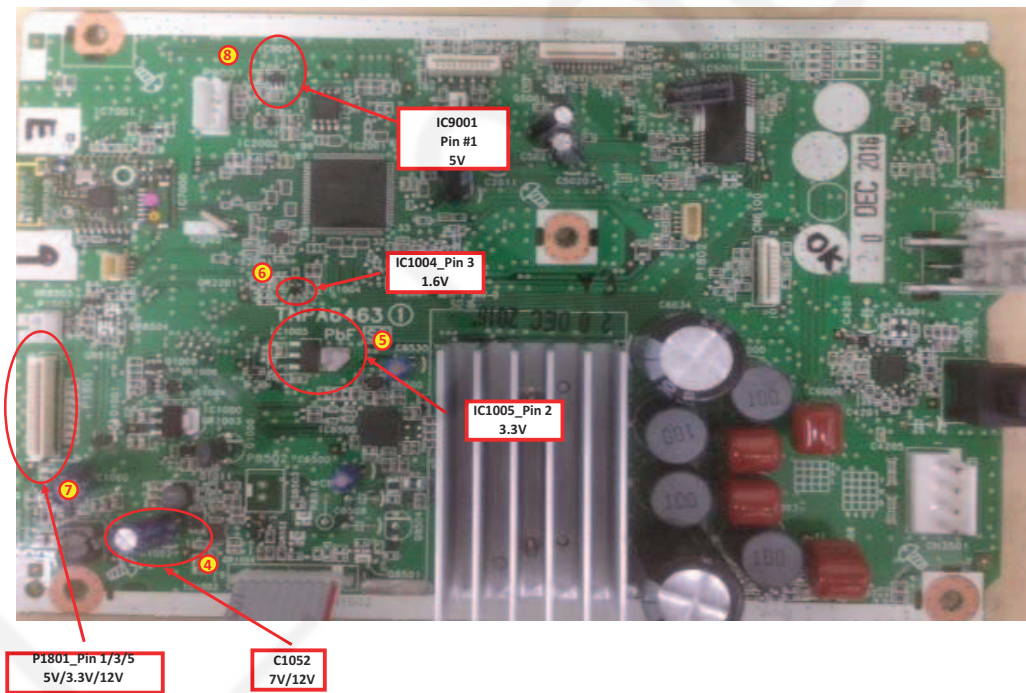


7.7. Check Point

SMPS MODULE



Main PCB



8 Disassembly and Assembly Instructions

Caution Note:

- 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 the 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. (See caution as described below)

**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

- During disassembly and assembly, please ensure proper service tools, equipments or jigs is being used.
- During replacement of component parts, please refer to the section of “Replacement Parts List” as described in the service manual.
- Select items from the following indexes when disassembly or replacement are required.
- Disassembly of Front Panel Unit
- Disassembly of Panel P.C.B.
- Disassembly of USB P.C.B.
- Disassembly of Front Speakers (SP5 and SP6)
- Disassembly of Front Speakers (SP3 and SP4)
- Disassembly of Front Speakers (SP1 and SP2)
- Disassembly of LED P.C.B.
- Disassembly of Mic P.C.B. (For E/PR/PU)
- Disassembly of Main P.C.B.
- Disassembly of SMPS Module
- Disassembly of CD Mechanism Unit
- Disassembly of CD Interface P.C.B.

8.1. Types of Screws

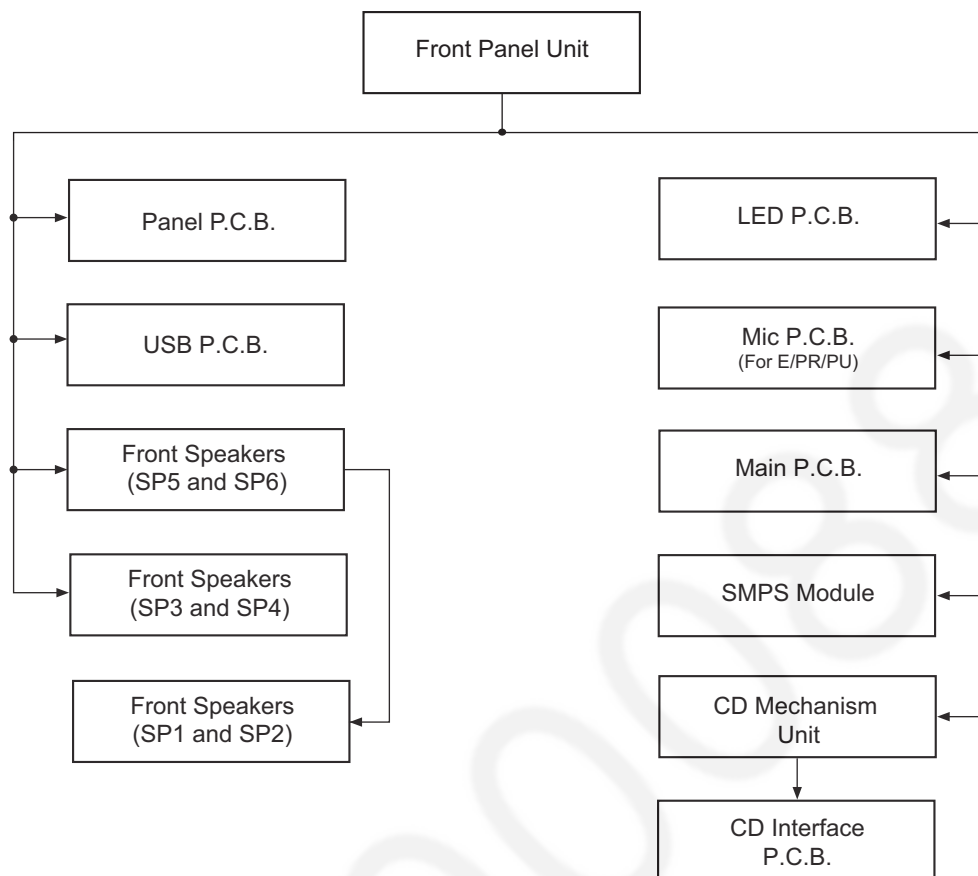
CAUTION NOTE:

Please use original screw and at correct locations.

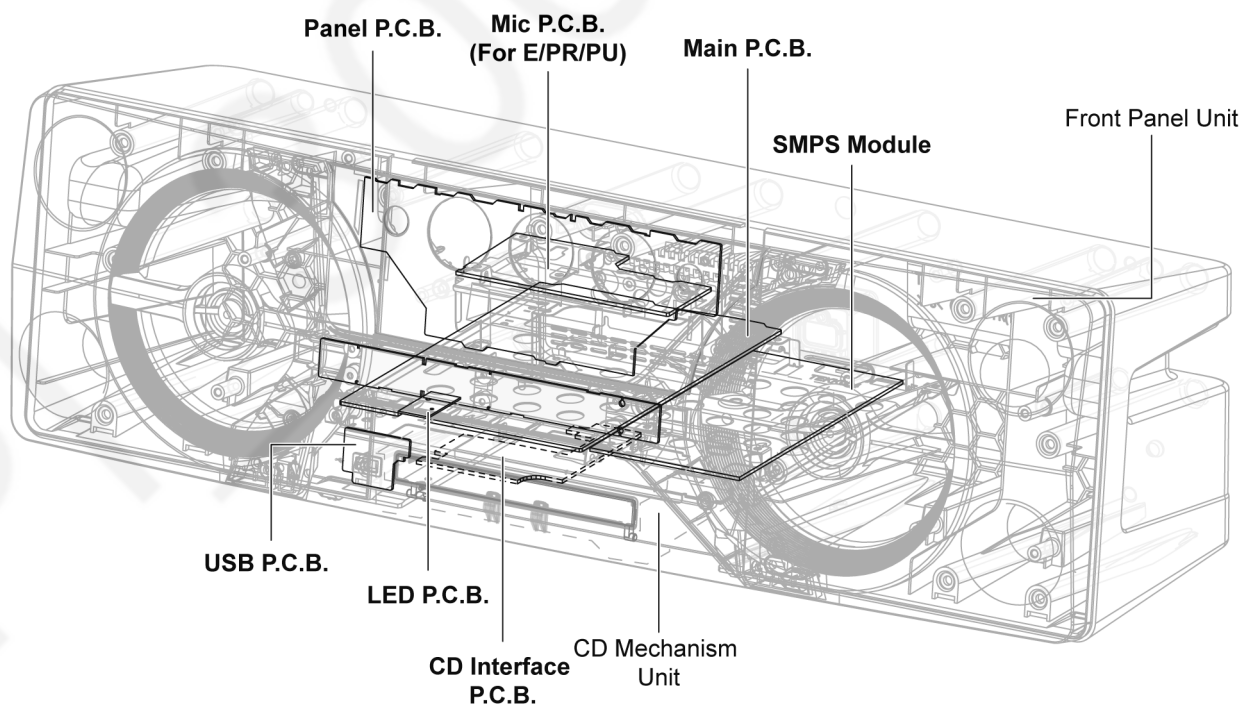
Below shown is part no. of different screw types used:

- | | |
|-----------------------|-----------------------|
| a :XTB4+12GFJ | f :XTB4+16GFJK |
| b :XTB3+10JFJK | g :RHD26056 |
| c :XTB4+12GFJK | h :VHD1224-1A |
| d :RHD30111-31 | i :RHDX031008 |
| e :RHD26046 | j :XTN2+6GFJ |

8.2. Disassembly Flow Chart

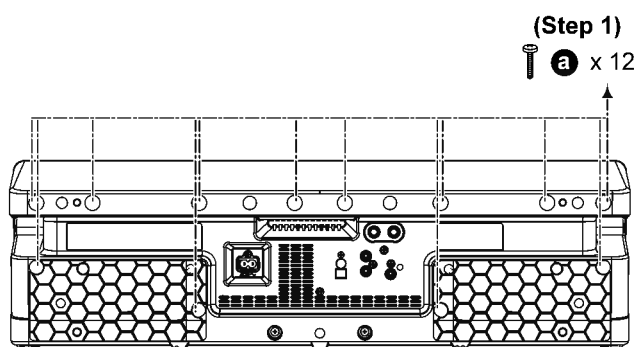


8.3. Main Components and P.C.B. Locations

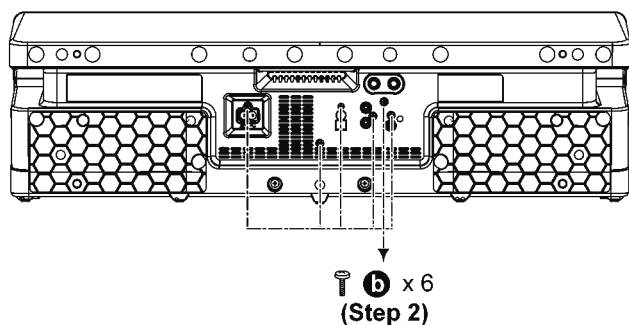


8.4. Disassembly of Front Panel Unit

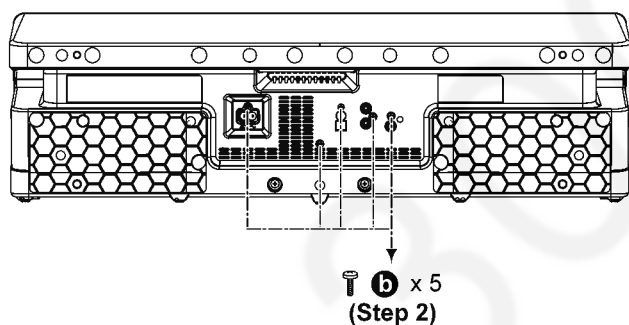
Step 1 Remove 12 screws.



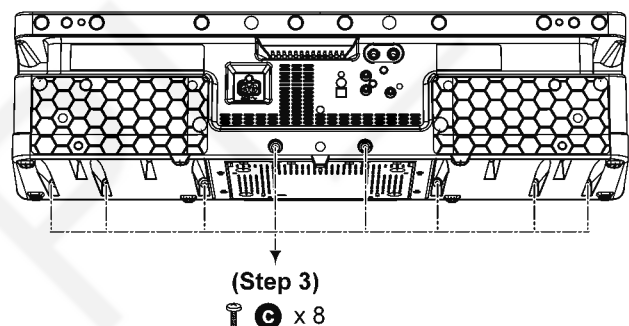
Step 2 Remove 6 screws. (For E/PR/PU)



Step 2 Remove 5 screws. (For GN)

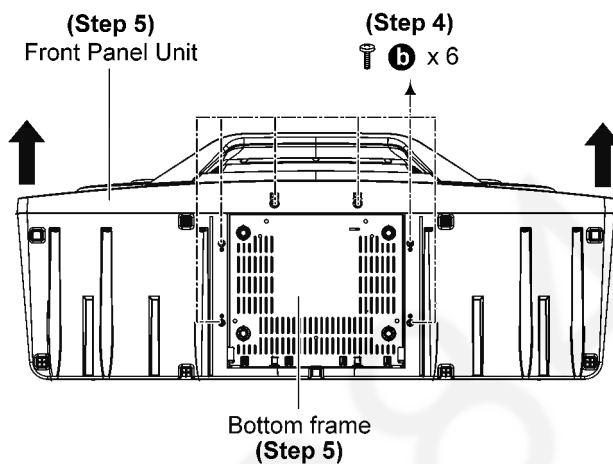


Step 3 Remove 8 screws.

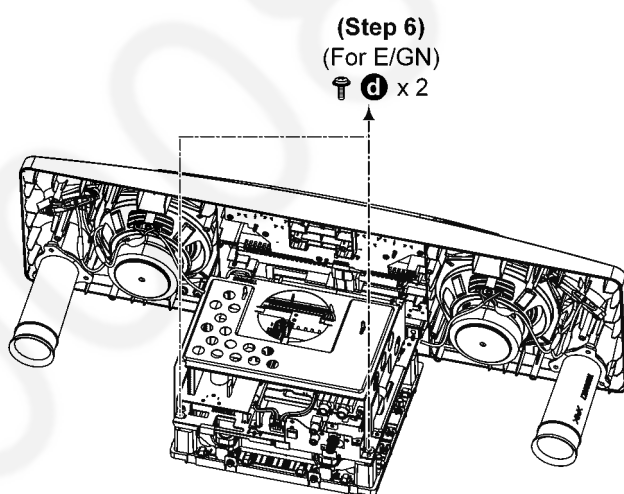


Step 4 Remove 6 screws.

Step 5 Remove Front Panel Unit and Bottom frame.

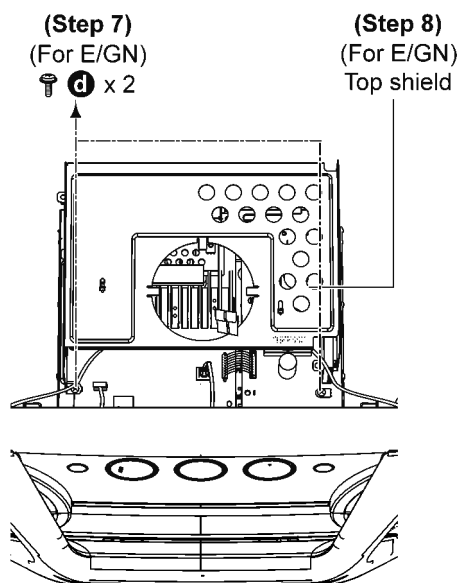


Step 6 Remove 2 screws. (For E/GN)

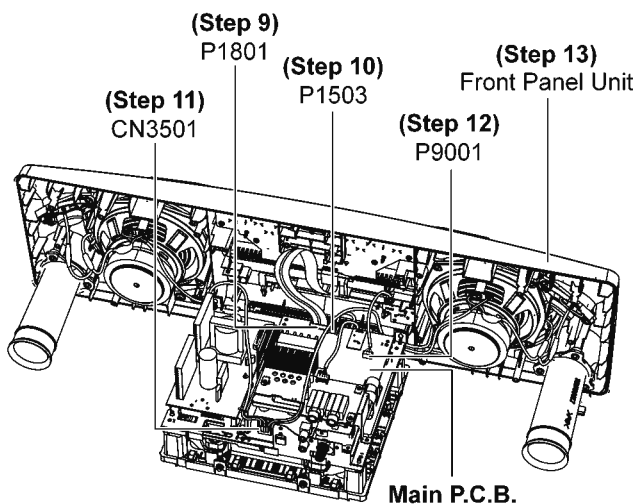


Step 7 Remove 2 screws. (For E/GN)

Step 8 Remove Top shield. (For E/GN)



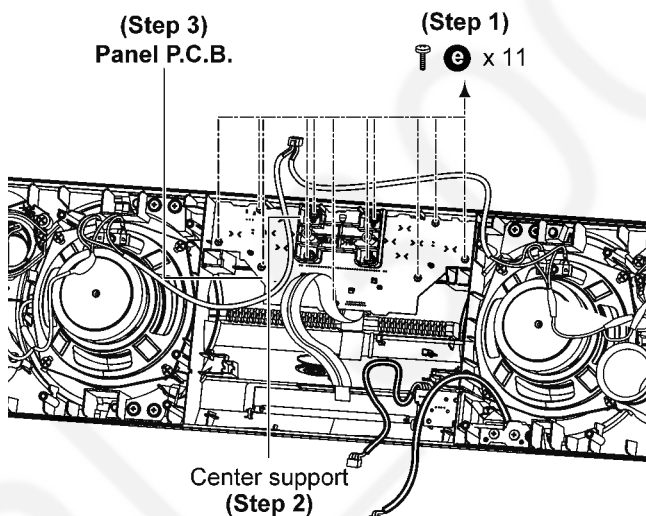
Step 9 Detach 17P FFC at connector (P1801) on Main P.C.B..
Step 10 Detach 2P Wire at connector (P1503) on Main P.C.B..
Step 11 Detach 4P Wire at connector (CN3501) on Main P.C.B..
Step 12 Detach 4P Wire at connector (P9001) on Main P.C.B..
Step 13 Remove Front Panel Unit.



8.5. Disassembly of Panel P.C.B.

• Refer to “Disassembly of Front Panel Unit”.

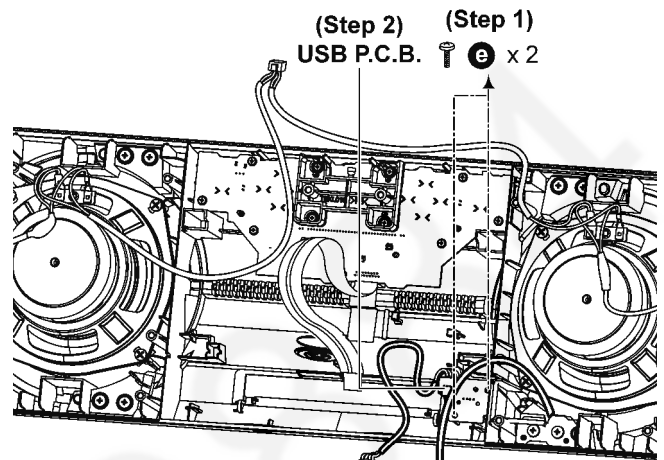
Step 1 Remove 11 screws.
Step 2 Remove Center Support.
Step 3 Remove Panel P.C.B..



8.6. Disassembly of USB P.C.B.

• Refer to “Disassembly of Front Panel Unit”.

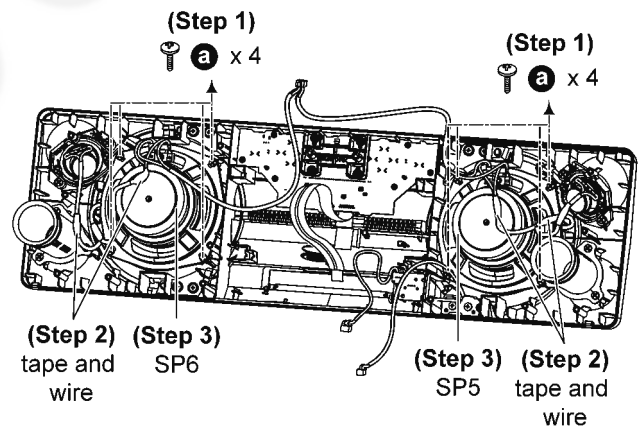
Step 1 Remove 2 screws.
Step 2 Remove USB P.C.B..



8.7. Disassembly of Front Speakers (SP5 and SP6)

• Refer to “Disassembly of Front Panel Unit”.

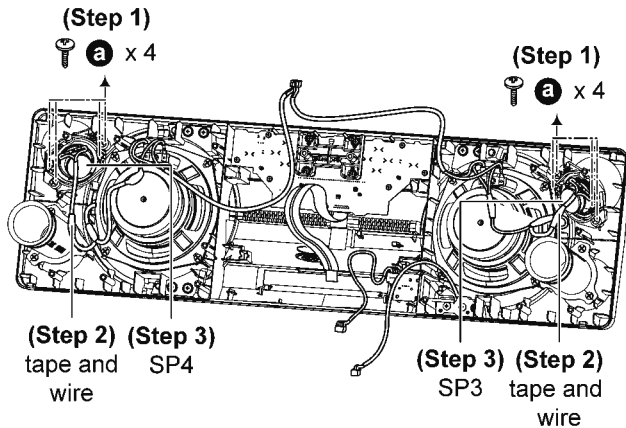
Step 1 Remove 8 screws.
Step 2 Remove tape and wire.
Step 3 Remove SP5 and SP6.



8.8. Disassembly of Front Speakers (SP3 and SP4)

- Refer to "Disassembly of Front Panel Unit".

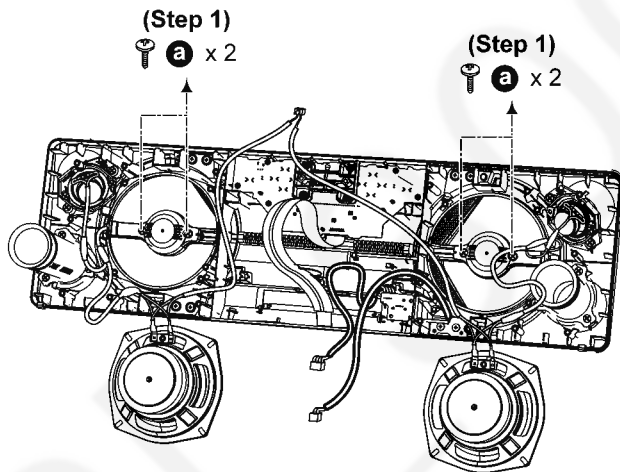
Step 1 Remove 8 screws.
Step 2 Remove tape and wire.
Step 3 Remove SP3 and SP4.



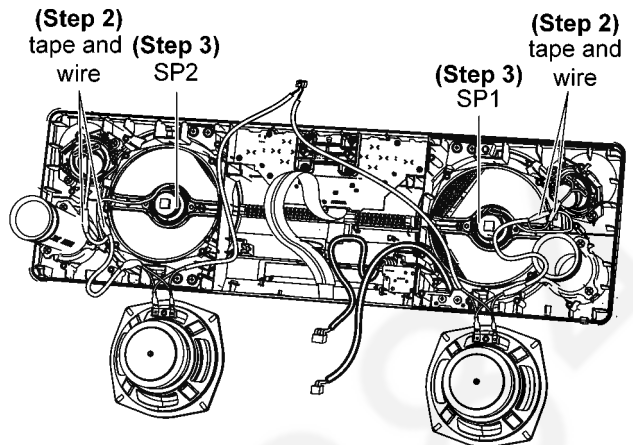
8.9. Disassembly of Front Speakers (SP1 and SP2)

- Refer to "Disassembly of Front Panel Unit".
- Refer to "Disassembly of Front Speaker (SP5 and SP6)".

Step 1 Remove 4 screws.



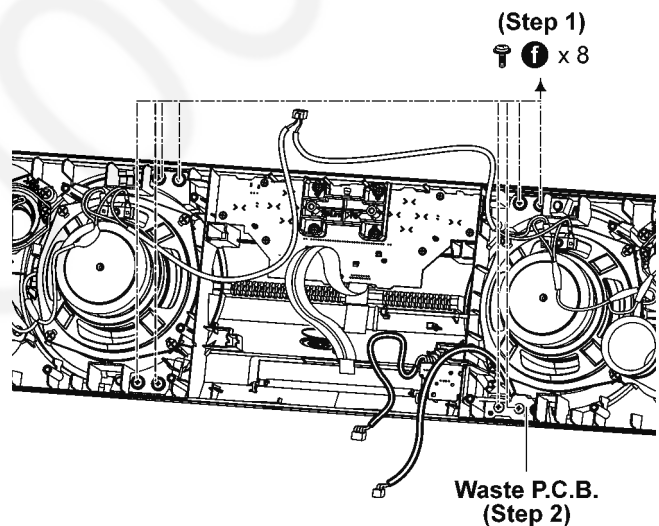
Step 2 Remove tape and wire.
Step 3 Remove SP1 and SP2.



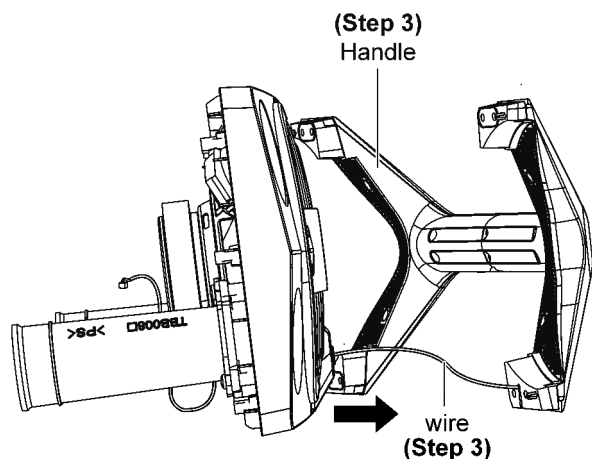
8.10. Disassembly of LED P.C.B.

- Refer to "Disassembly of Front Panel Unit".

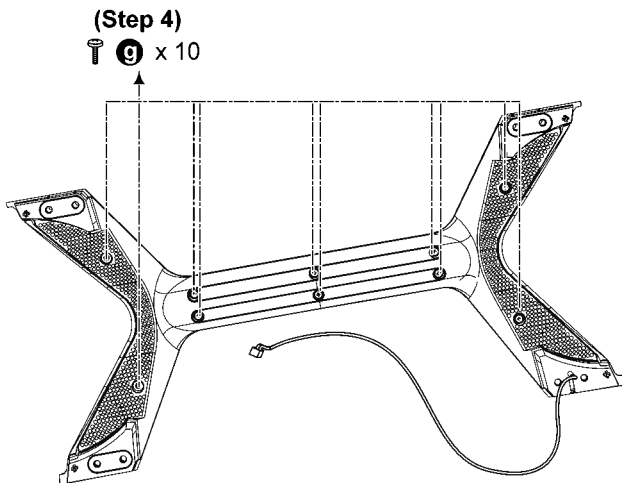
Step 1 Remove 8 screws.
Step 2 Detach Waste P.C.B..



Step 3 Remove Handle and wire.

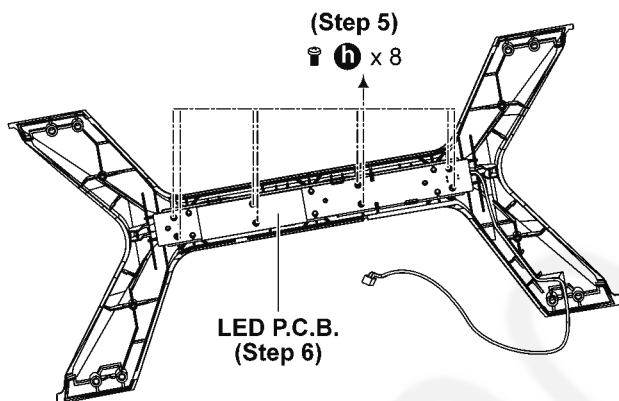


Step 4 Remove 10 screws.



Step 5 Remove 8 screws.

Step 6 Remove LED P.C.B..



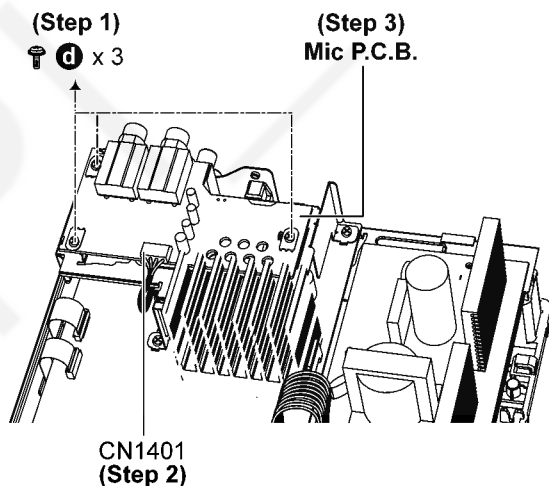
8.11. Disassembly of Mic P.C.B. (For E/PR/PU)

• Refer to "Disassembly of Front Panel Unit".

Step 1 Remove 3 screws.

Step 2 Detach 5P Wire at connector (CN1401) on Mic P.C.B..

Step 3 Remove Mic P.C.B..



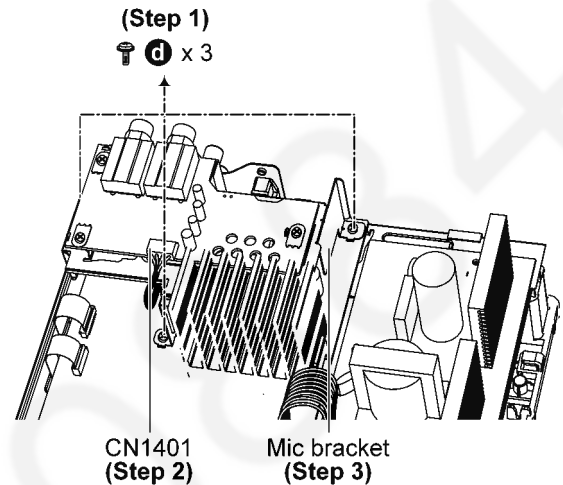
8.12. Disassembly of Main P.C.B.

• Refer to "Disassembly of Front Panel Unit".

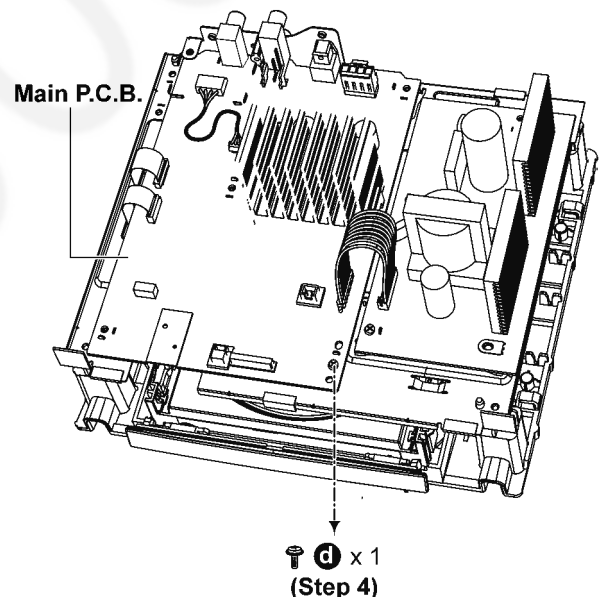
Step 1 Remove 3 screws. (For E/PR/PU)

Step 2 Detach 5P Wire at connector (CN1401) on Mic P.C.B.. (For E/PR/PU)

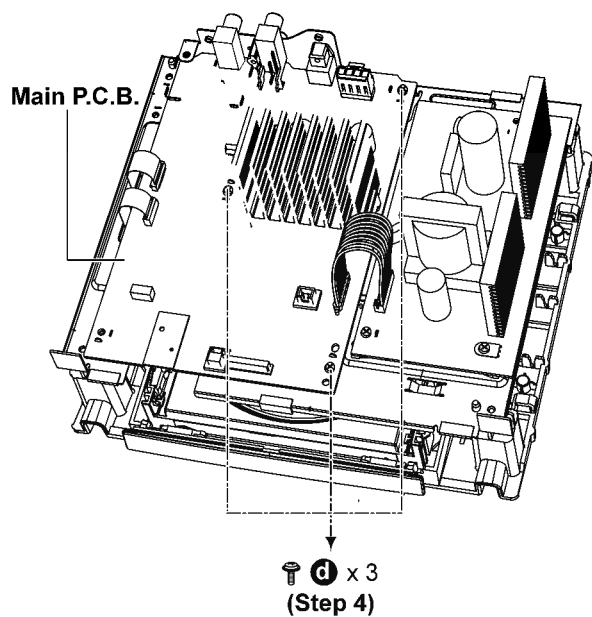
Step 3 Remove Mic bracket. (For E/PR/PU)



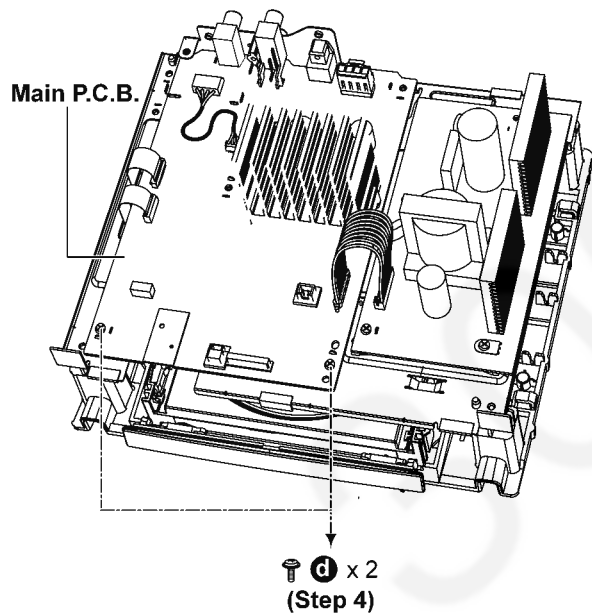
Step 4 Remove 1 screw. (For E)



Step 4 Remove 3 screws. (For GN)



Step 4 Remove 2 screws. (For PR/PU)



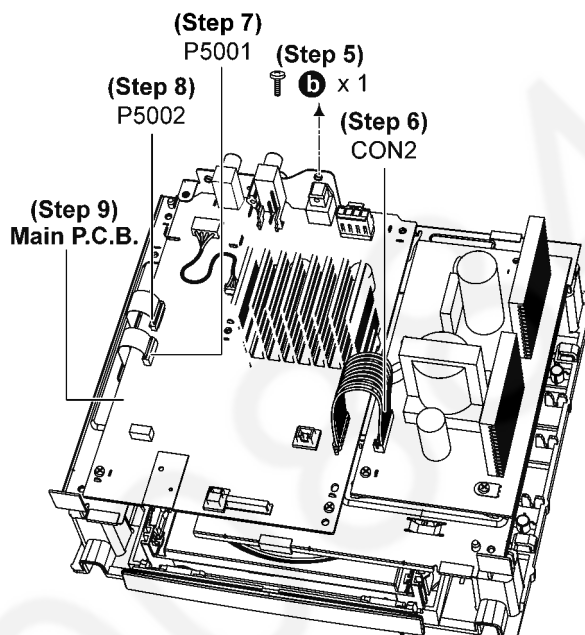
Step 5 Remove 1 screw.

Step 6 Detach 9P Wire at connector (CON2) on SMPS Module.

Step 7 Detach 10P FFC at connector (P5001) on Main P.C.B..

Step 8 Detach 24P FFC at connector (P5002) on Main P.C.B..

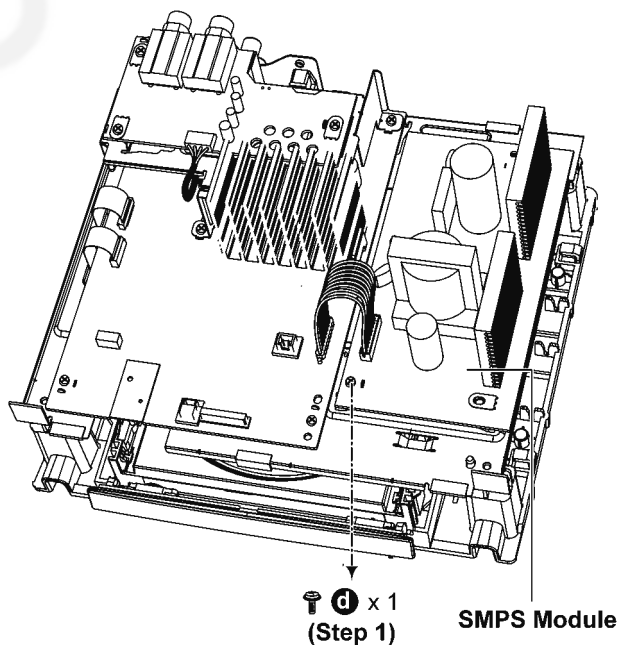
Step 9 Remove Main P.C.B..



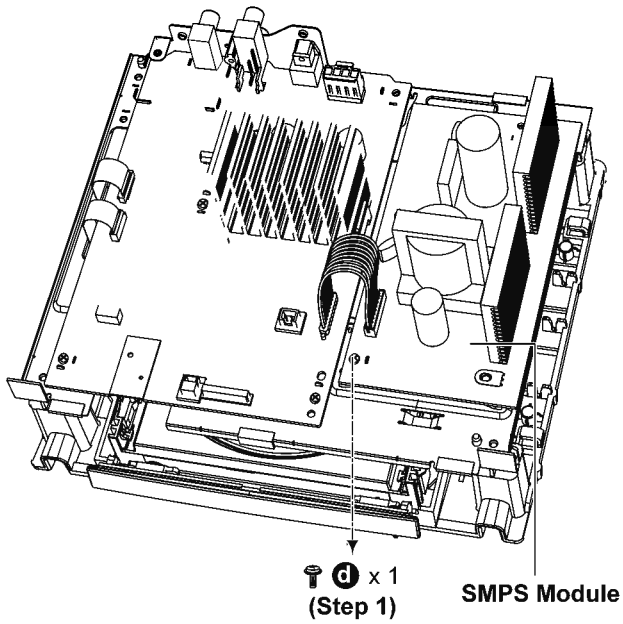
8.13. Disassembly of SMPS Module

• Refer to "Disassembly of Front Panel Unit".

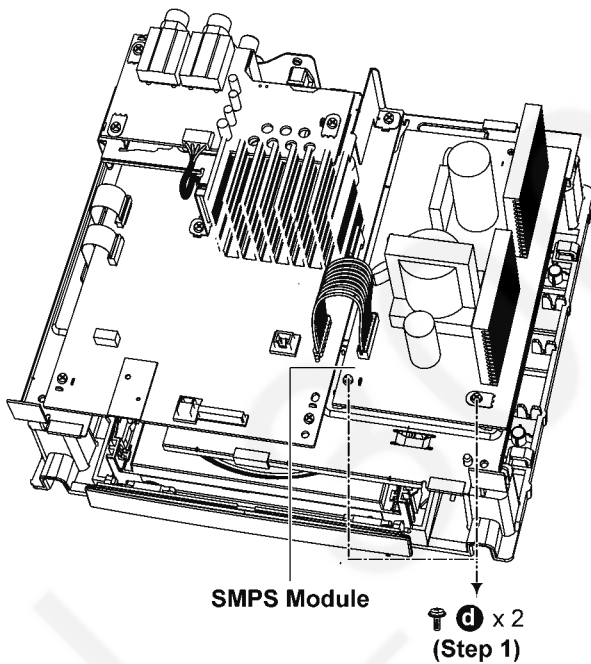
Step 1 Remove 1 screw. (For E)



Step 1 Remove 1 screw. (For GN)



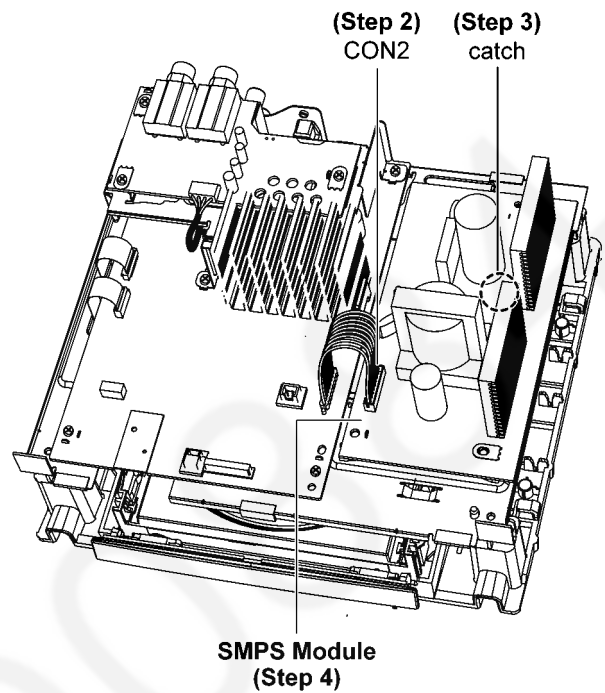
Step 1 Remove 2 screws. (For PR/PU)



Step 2 Detach 9P Wire at connector (CON2) on SMPS Module.

Step 3 Release catch.

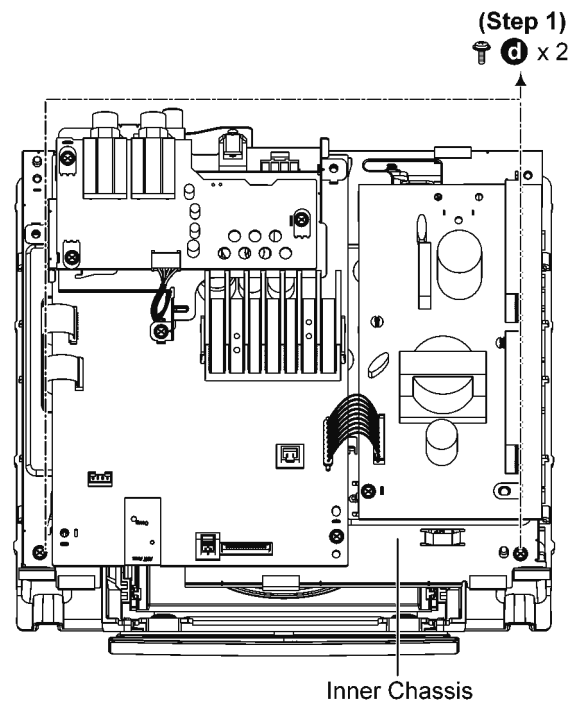
Step 4 Remove SMPS Module.



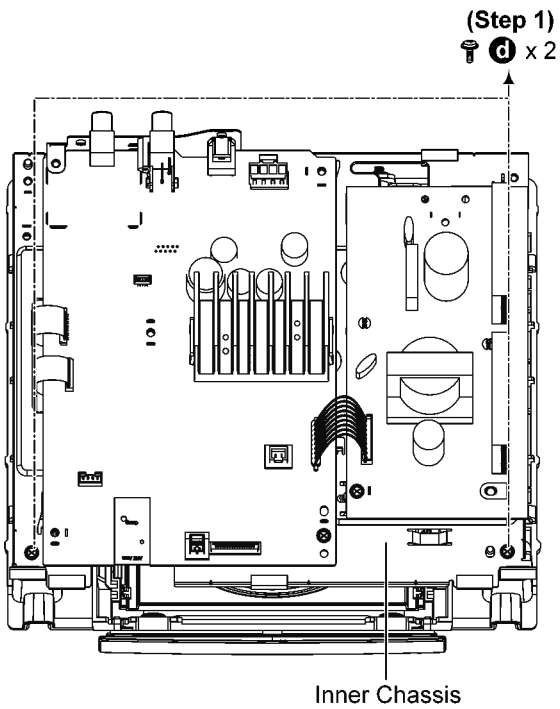
8.14. Disassembly of CD Mechanism Unit

• Refer to "Disassembly of Front Panel Unit".

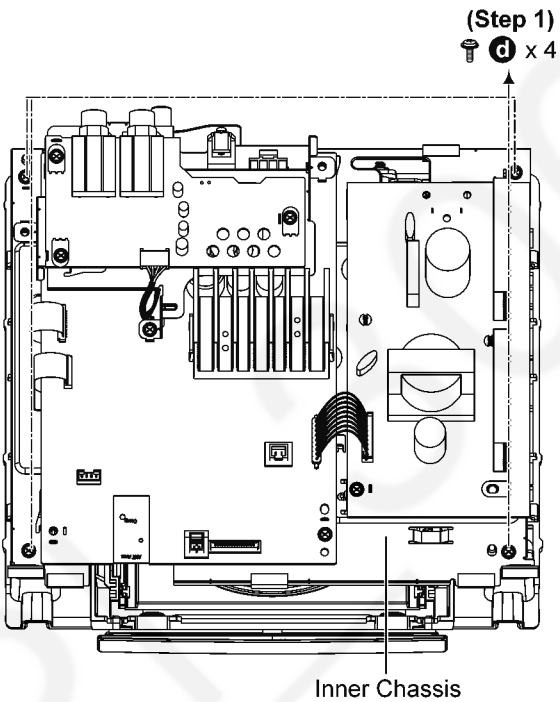
Step 1 Remove 2 screws. (For E)



Step 1 Remove 2 screws. (For GN)



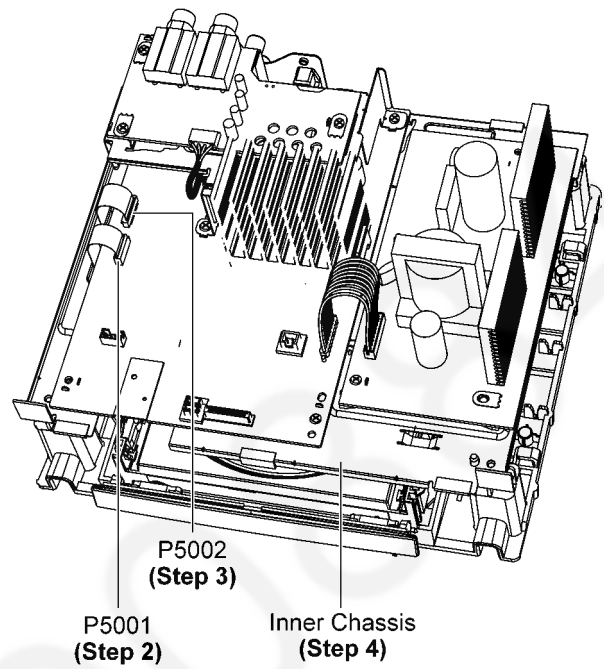
Step 1 Remove 4 screws. (For PR/PU)



Step 2 Detach 10P FFC at connector (P5001) on Main P.C.B..

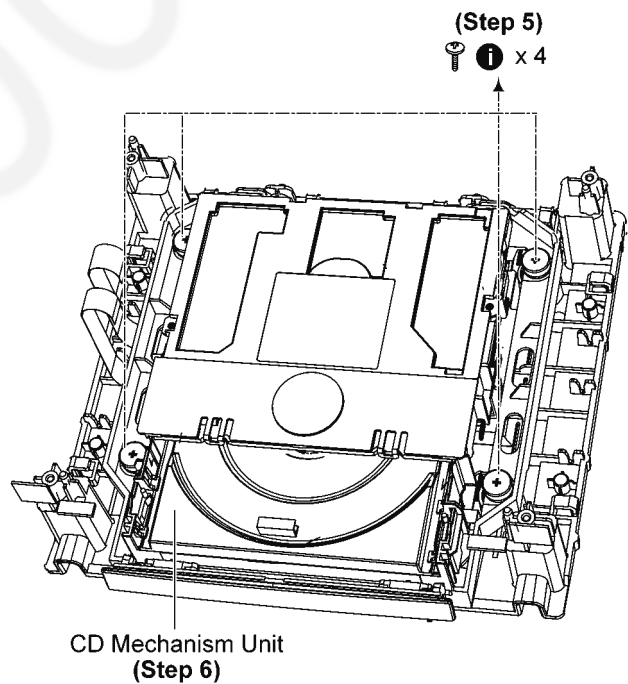
Step 3 Detach 24P FFC at connector (P5002) on Main P.C.B..

Step 4 Remove Inner chassis.



Step 5 Remove 4 screws.

Step 6 Remove CD Mechanism Unit.



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

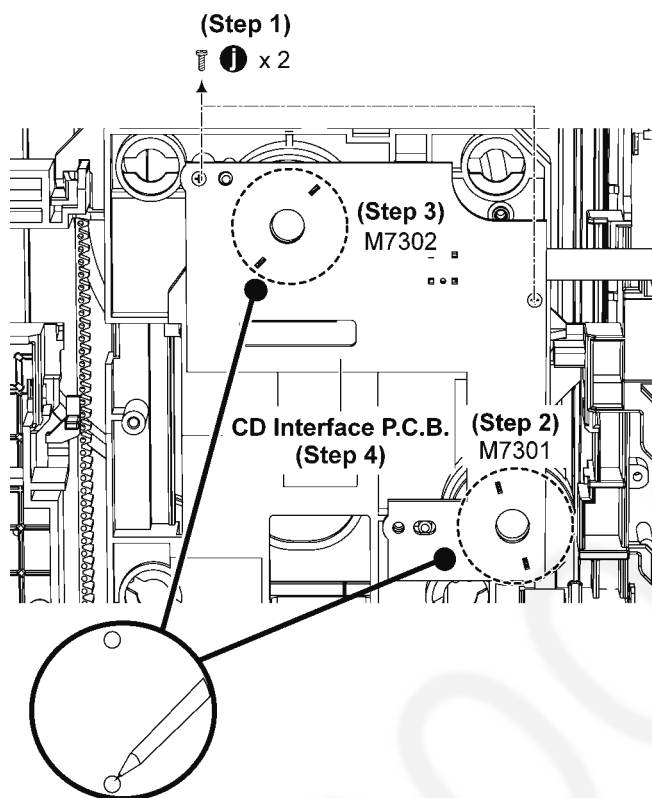
- Refer to “Disassembly of Front Panel Unit”.
- Refer to “Disassembly of CD Mechanism Unit”.

Step 1 Remove 2 screws.

Step 2 Desolder pins of the motor (M7301).

Step 3 Desolder pins of the motor (M7302).

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



9 Service Position

Note: Refer to Section 8 for disassembly instruction for the related parts.

9.1. Checking of Main P.C.B. and SMPS Module

Step 1 Remove Front Panel Unit.

Step 2 Remove Mic P.C.B.. (For E/PR/PU)

Step 3 Remove Main P.C.B..

Step 4 Remove SMPS Module.

Step 5 Remove CD Mechanism Unit.

Step 6 Place Main P.C.B. and SMPS Module on the insulated material as shown.

Step 7 Attach 4P Wire at connector (P9001) on Main P.C.B..

Step 8 Attach 2P Wire at connector (P1503) on Main P.C.B..

Step 9 Attach 17P FFC at connector (P1801) on Main P.C.B..

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

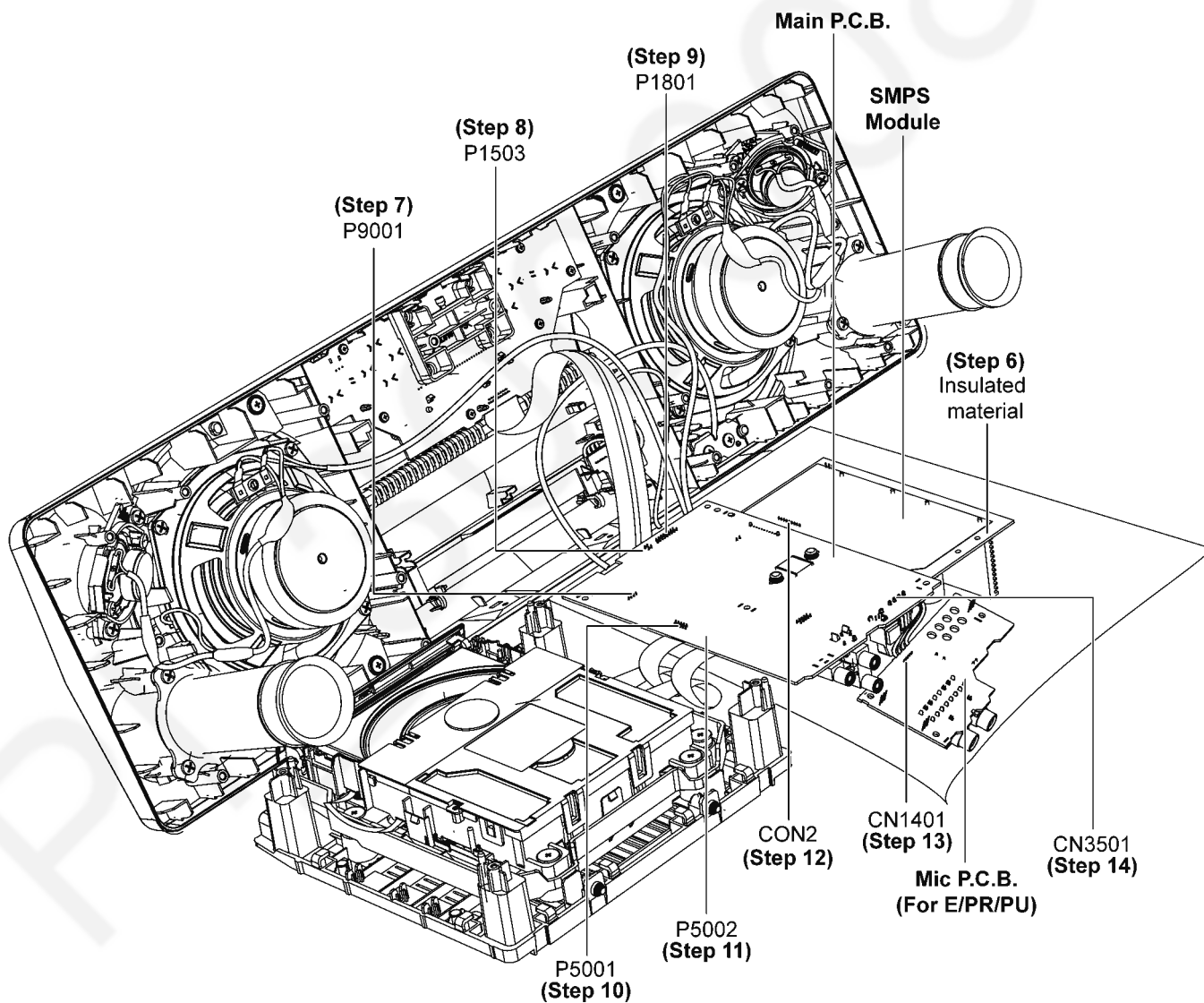
Step 11 Attach 24P FFC at connector (P5002) on Main P.C.B..

Step 12 Attach 9P Wire at connector (CON2) on SMPS Module.

Step 13 Attach 5P Wire at connector (CN1401) on Mic P.C.B. (For E/PR/PU)

Step 14 Attach 4P Wire at connector (CN3501) on Main P.C.B..

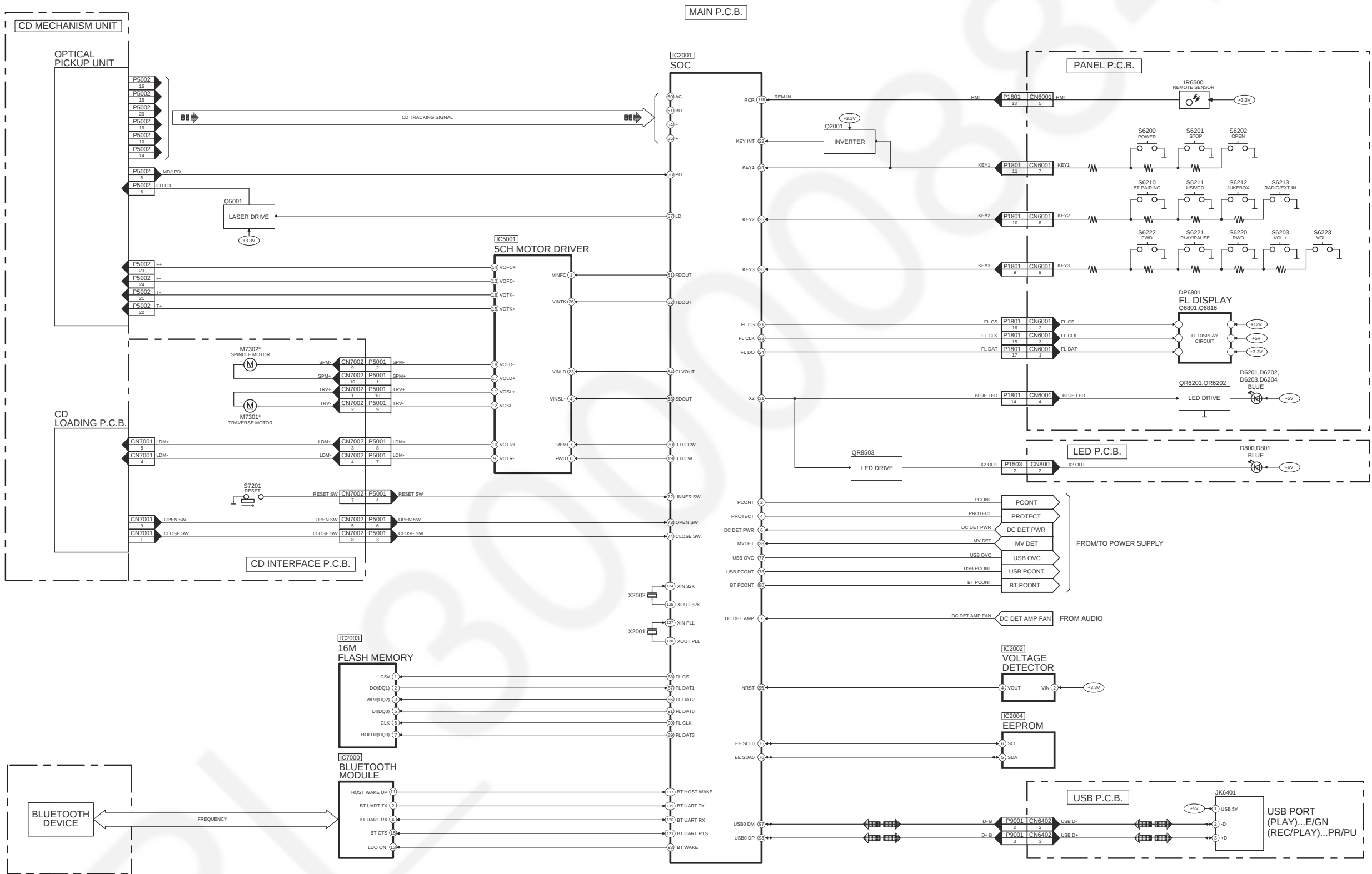
Step 15 Main P.C.B. and SMPS Module can be checked as diagram shown.



10 Block Diagram

10.1. System Control

 : CD SIGNAL LINE
  : USB SIGNAL LINE

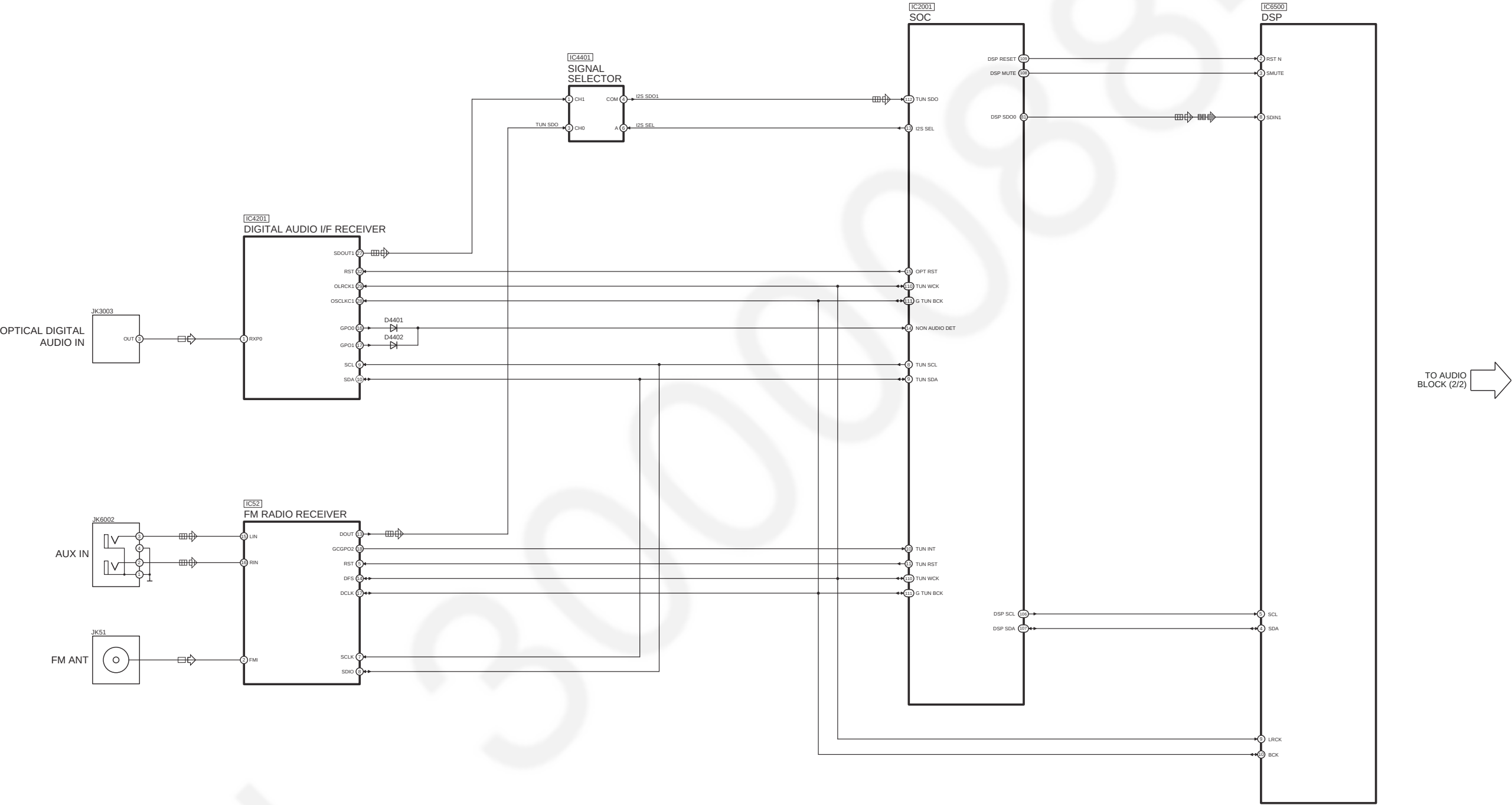


NOTE: " * " REF IS FOR INDICATION ONLY

SC-UA3E/GN/PR/PU SYSTEM CONTROL BLOCK DIAGRAM

10.2. Audio (1/2)

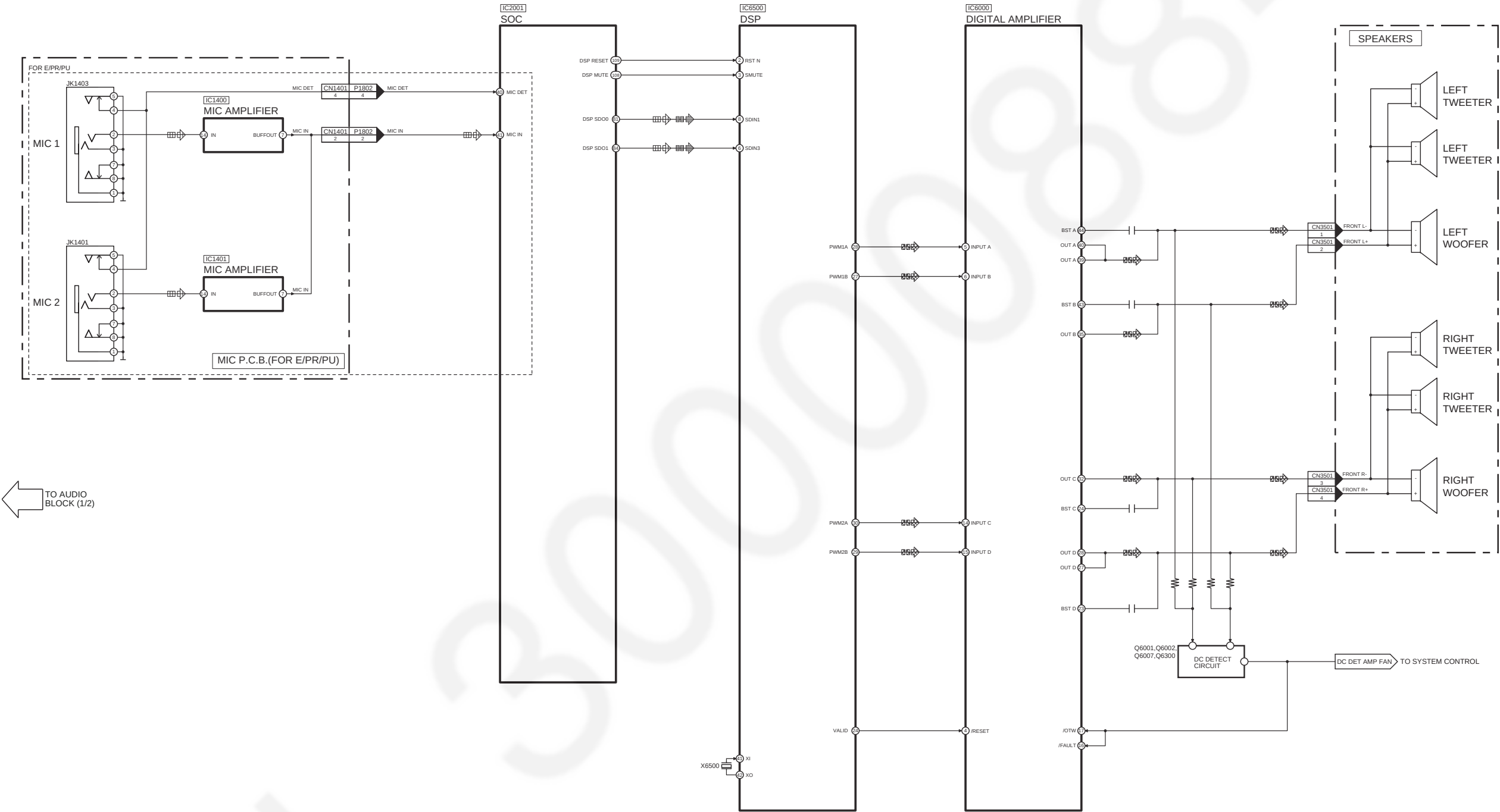
 : CD SIGNAL LINE
  : TUNER/AUX SIGNAL LINE
  : OUTPUT SIGNAL LINE
  : OPTICAL DIGITAL/FM SIGNAL LINE



SC-UA3E/GN/PR/PU AUDIO (1/2) BLOCK DIAGRAM

10.3. Audio (2/2)

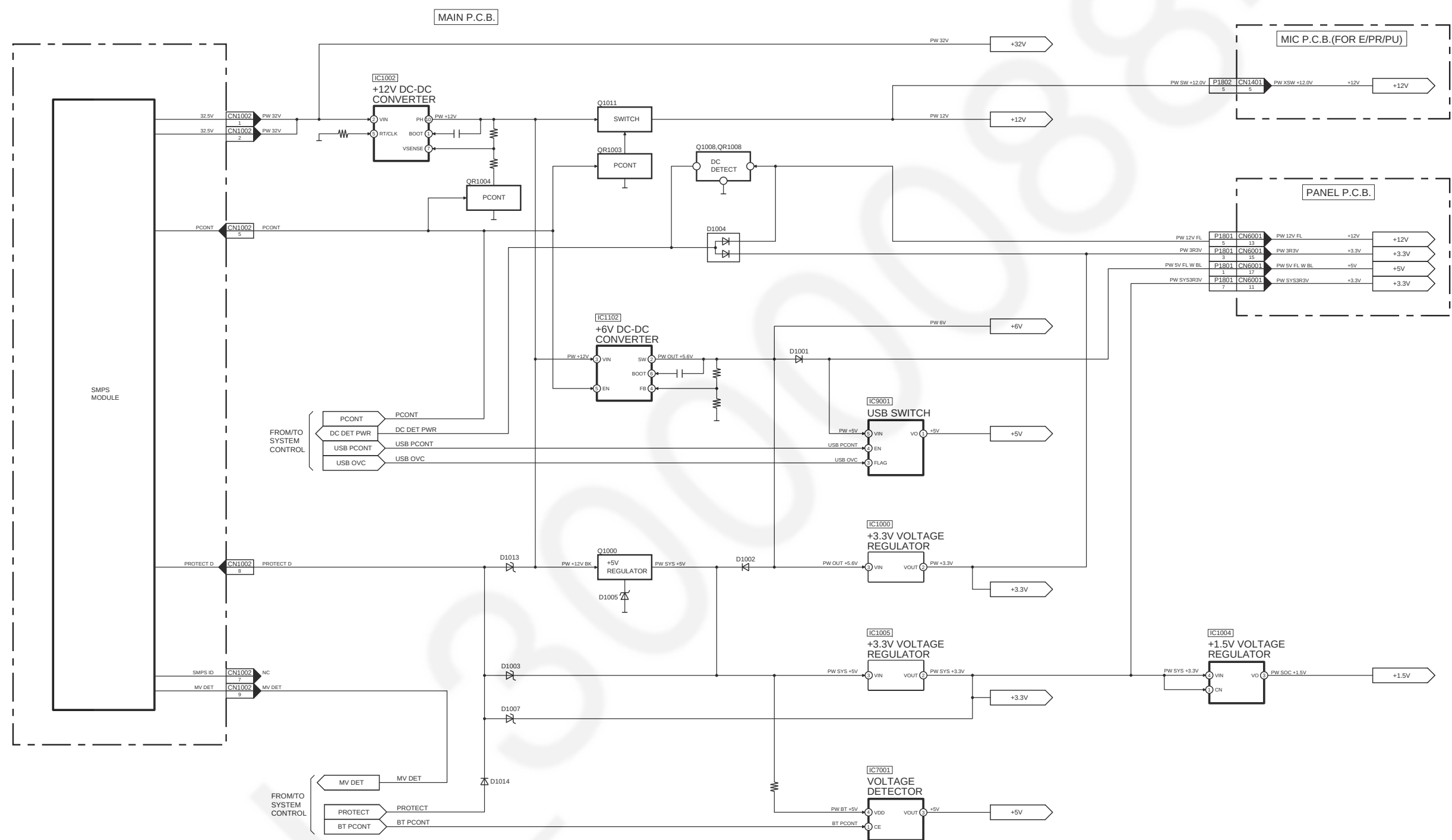
CD SIGNAL LINE TUNER/AUX SIGNAL LINE OUTPUT SIGNAL LINE



TO AUDIO BLOCK (1/2)

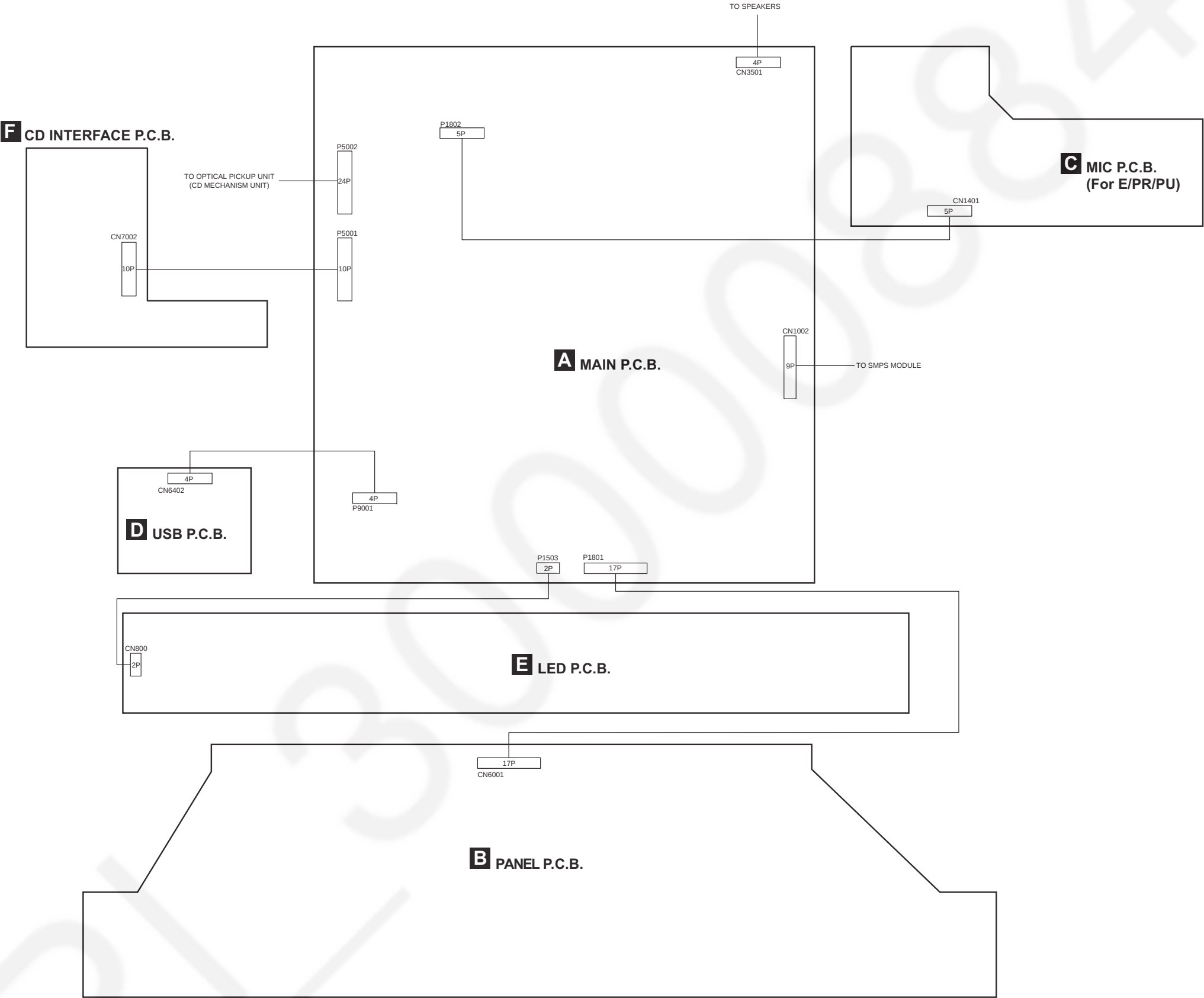
SC-UA3E/GN/PR/PU AUDIO (2/2) BLOCK DIAGRAM

10.4. Power Supply



SC-UA3E/GN/PR/PU POWER SUPPLY BLOCK DIAGRAM

11 Wiring Connection Diagram



SC-UA3E/GN/PR/PU WIRING CONNECTION DIAGRAM

12 Schematic Diagram

12.1. Schematic Diagram Notes

- This schematic diagram may be modified at any time with the development of new technology.

Notes:

S6200:	Power switch (⏻/⏻).
S6201:	Stop (■) switch.
S6202:	Open/Close switch (▲).
S6203:	VOL+ switch.
S6210:	BT-Pairing switch.
S6211:	USB/CD switch.
S6212:	Jukebox switch.
S6213:	Radio/EXT-IN switch.
S6220:	RWD (⏮/⏮) switch.
S6221:	Play/Pause (▶/⏸) switch.
S6222:	FWD (▶▶/▶▶) switch.
S6223:	VOL- switch.

- 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.

- **Resistor**

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

- **Capacitor**

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

- **Coil**

Unit of inductance is H, unless otherwise noted.

- *

REF IS FOR INDICATION ONLY.

- Voltage and signal line

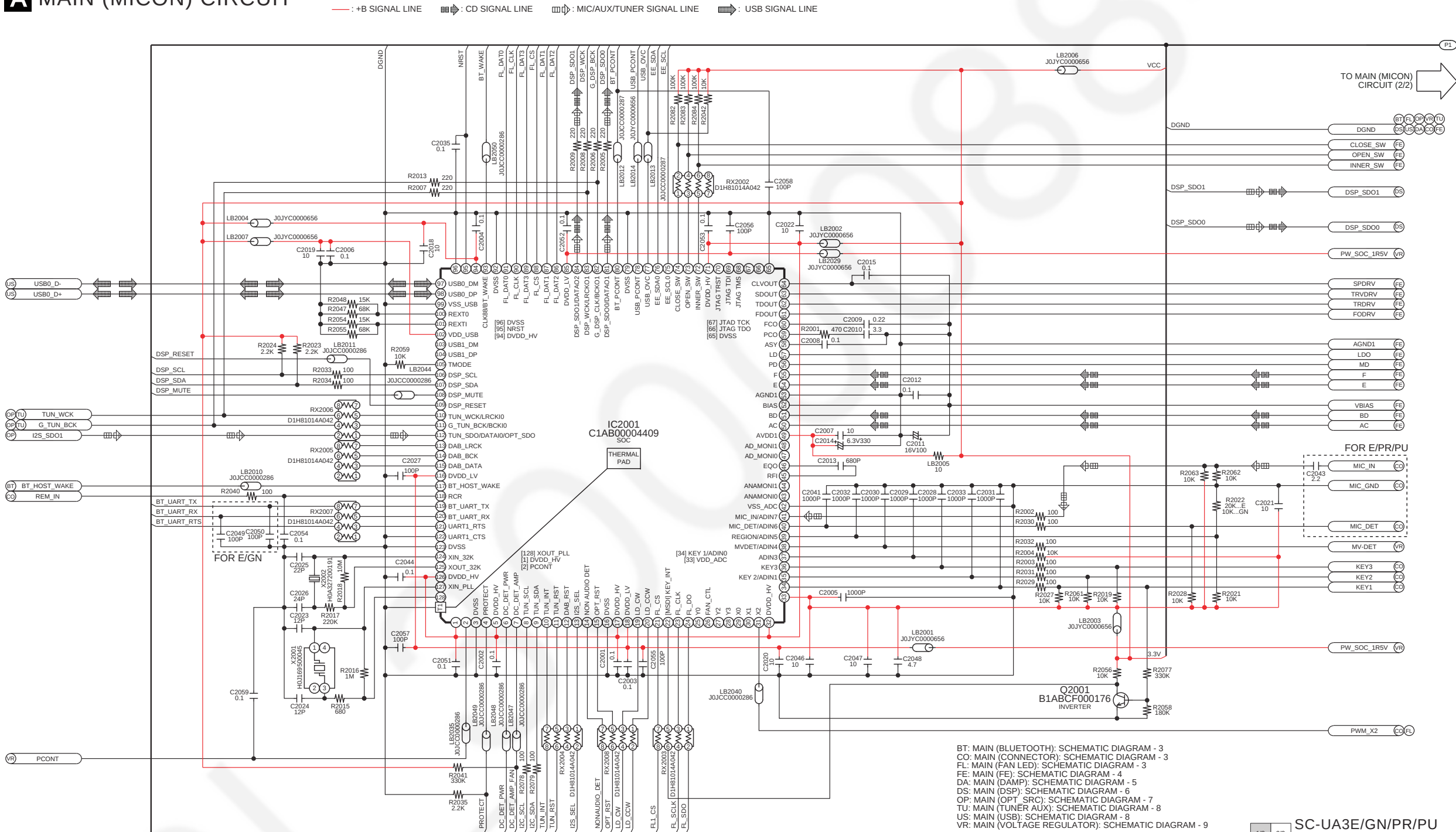
—	: +B signal line
⏮	: CD signal line
⏮	: Mic/AUX/Tuner signal line
⏮	: Output signal line
⏮	: USB signal line
⏮	: FM/Optical digital signal line

PI-30000884

12.2. Main (Micon) Circuit (1/2)

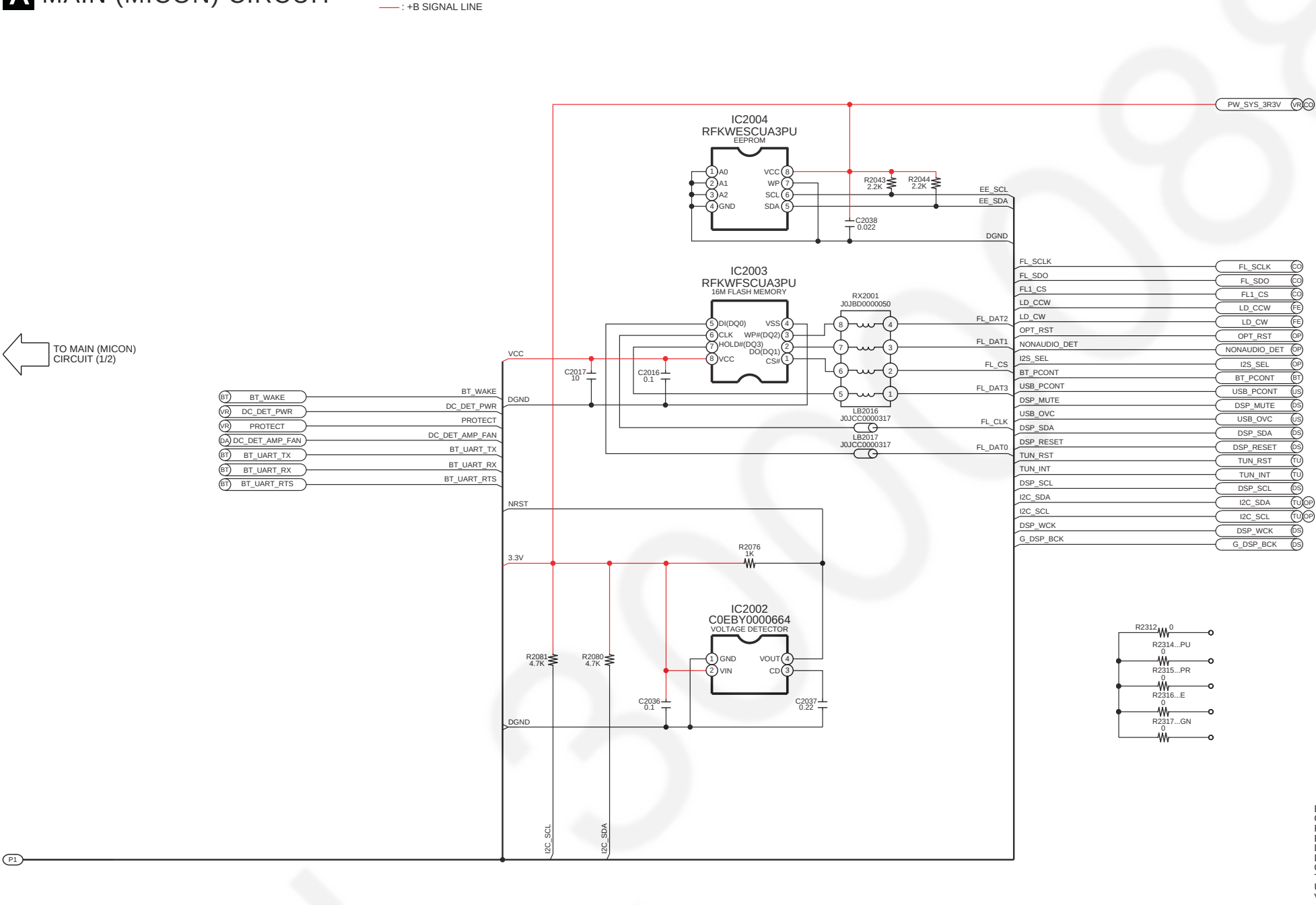
SCHEMATIC DIAGRAM - 1

A MAIN (MICON) CIRCUIT



12.3. Main (Micon) Circuit (2/2)

SCHEMATIC DIAGRAM - 2
A MAIN (MICON) CIRCUIT

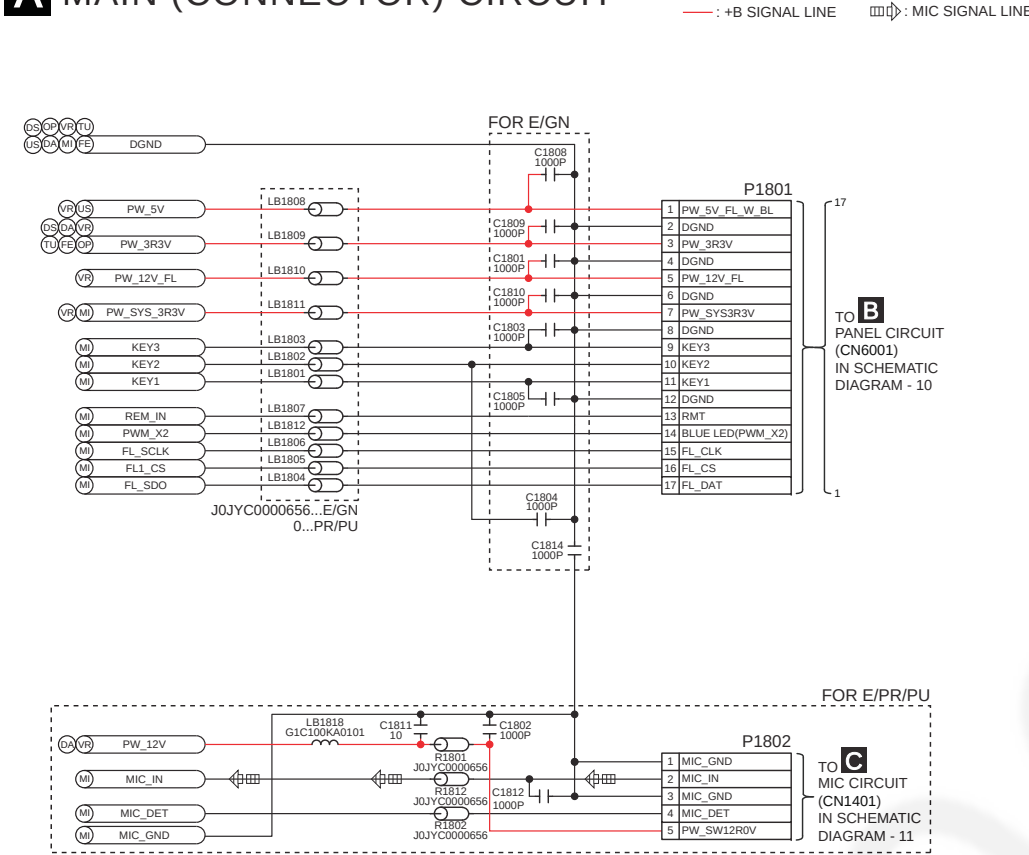


1/2 2/2 SC-UA3E/GN/PR/PU MAIN (MICON) CIRCUIT

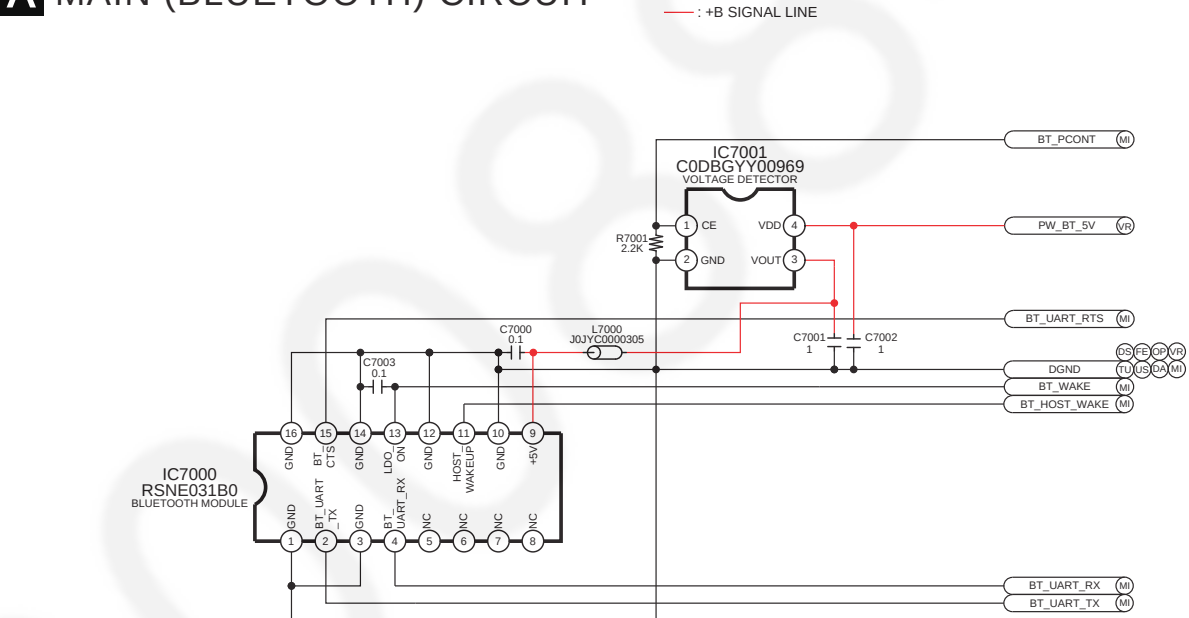
12.4. Main (Connector), Main (Bluetooth) and Main (Fan LED) Circuit

SCHEMATIC DIAGRAM - 3

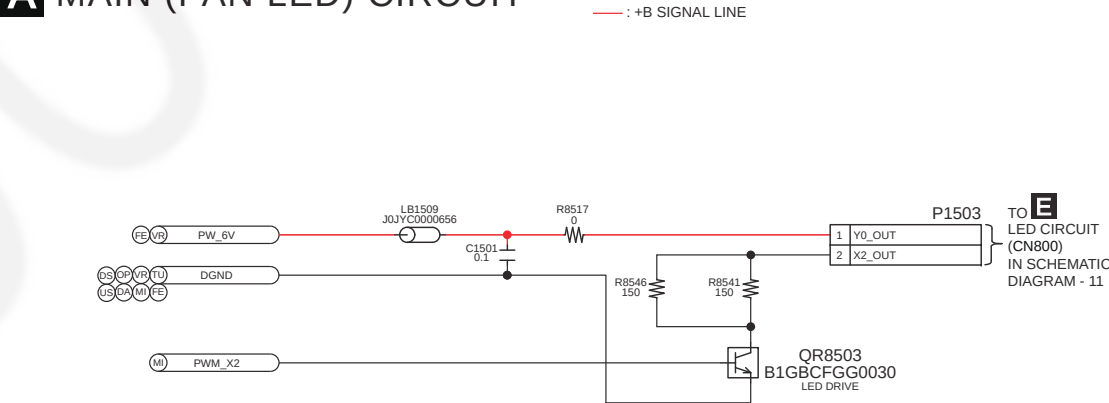
A MAIN (CONNECTOR) CIRCUIT



A MAIN (BLUETOOTH) CIRCUIT

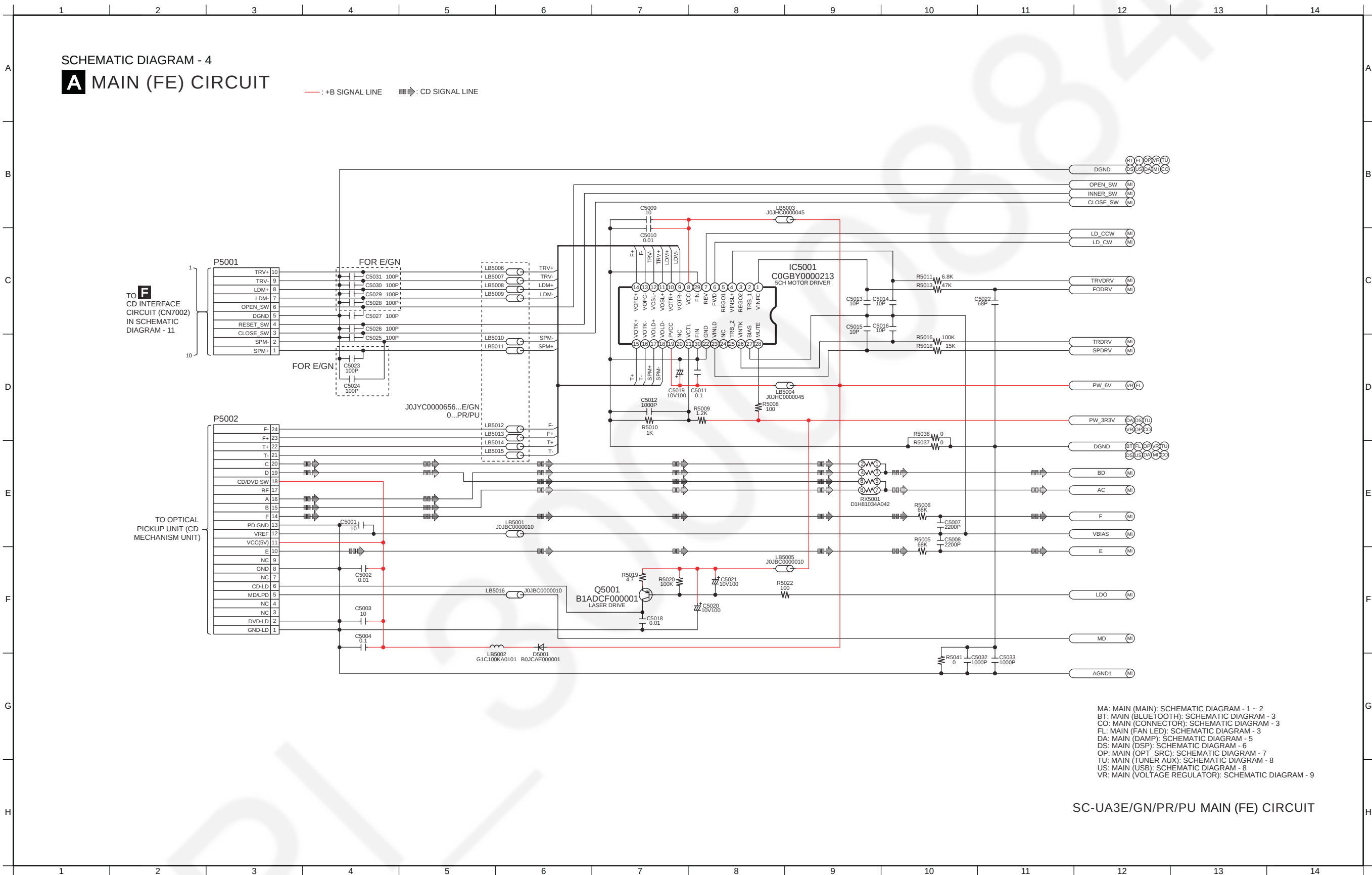


A MAIN (FAN LED) CIRCUIT

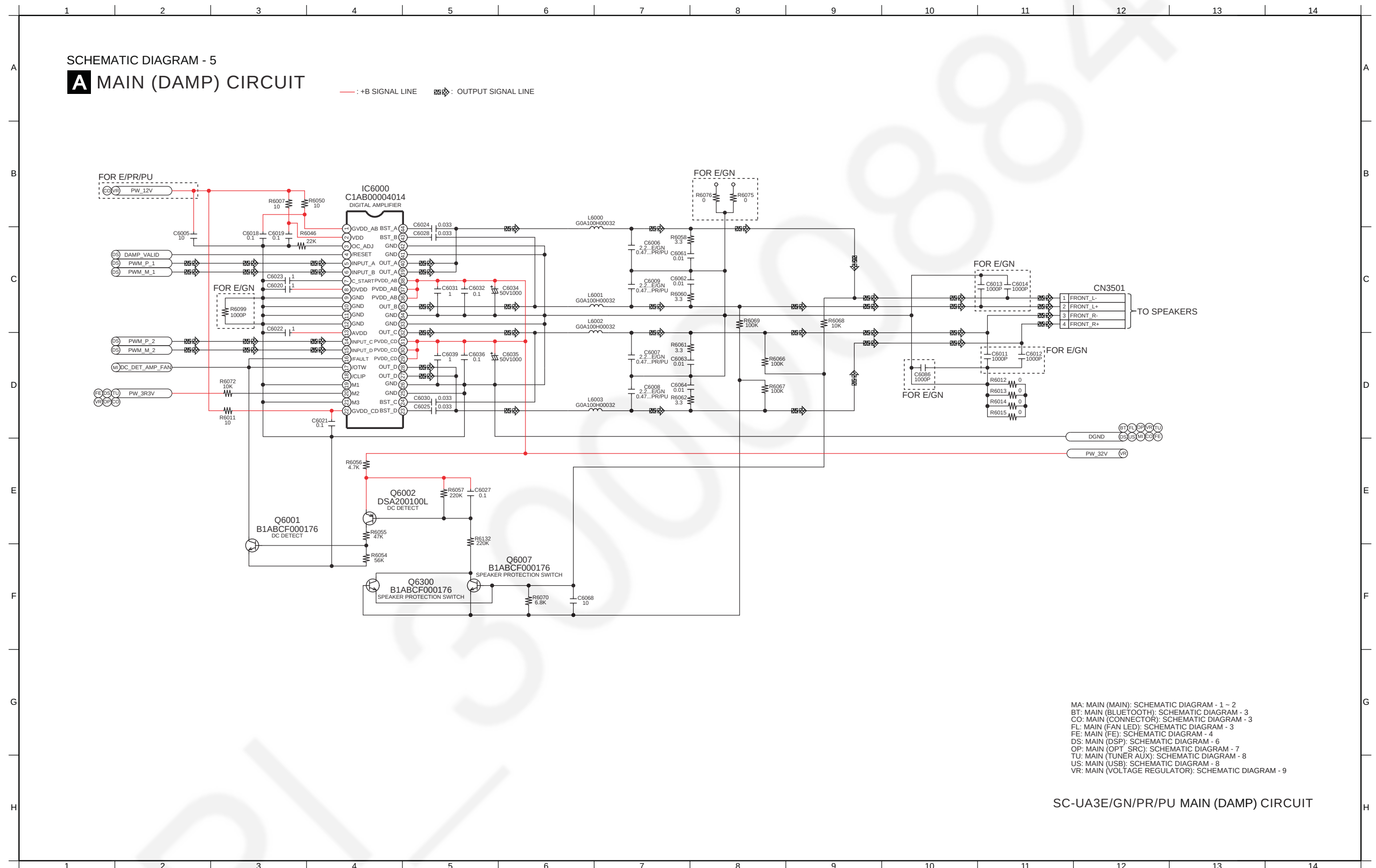


SC-UA3E/GN/PR/PU MAIN (CONNECTOR) / MAIN (BLUETOOTH) / MAIN (FAN LED) CIRCUIT

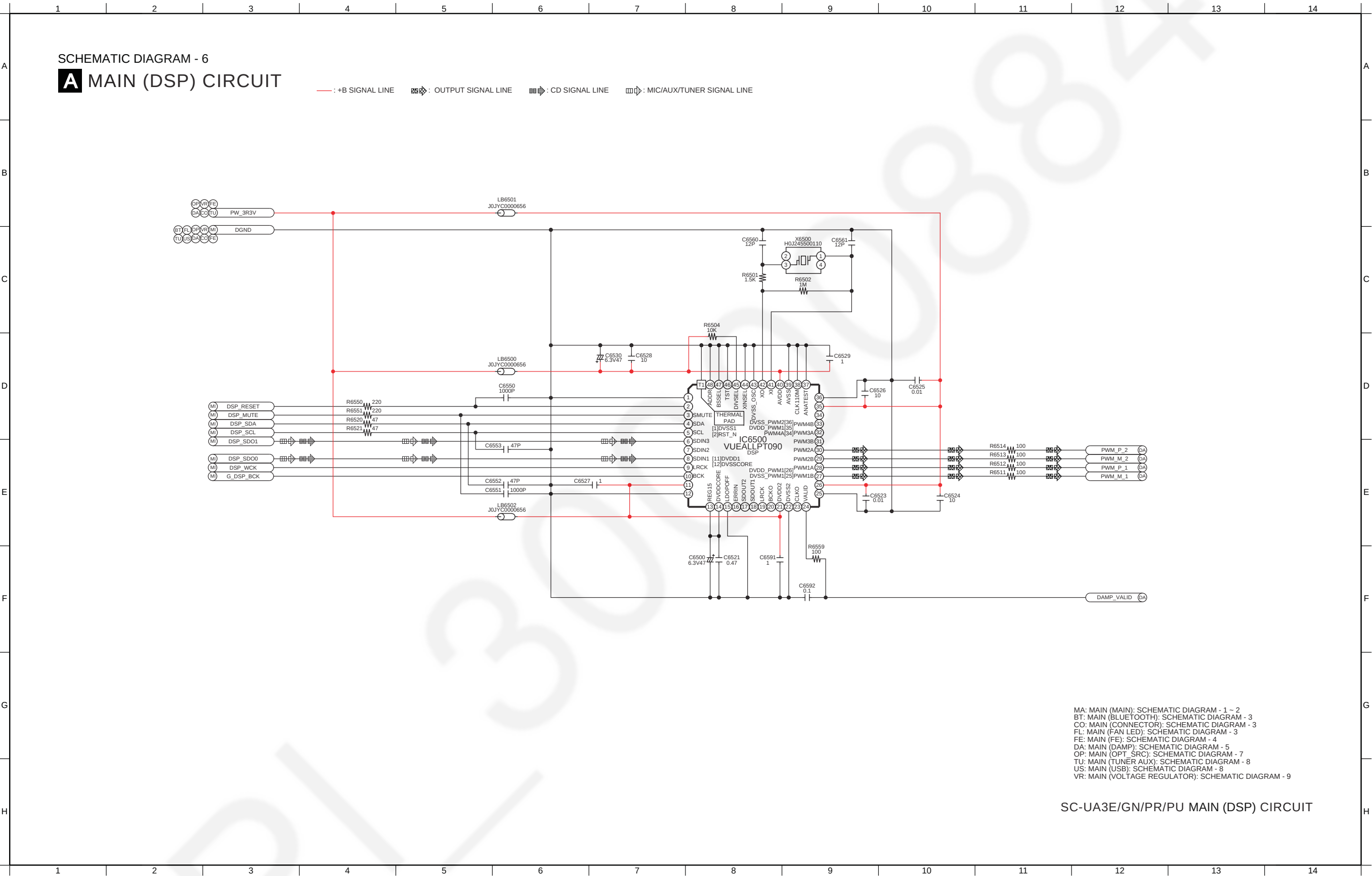
12.5. Main (FE) Circuit



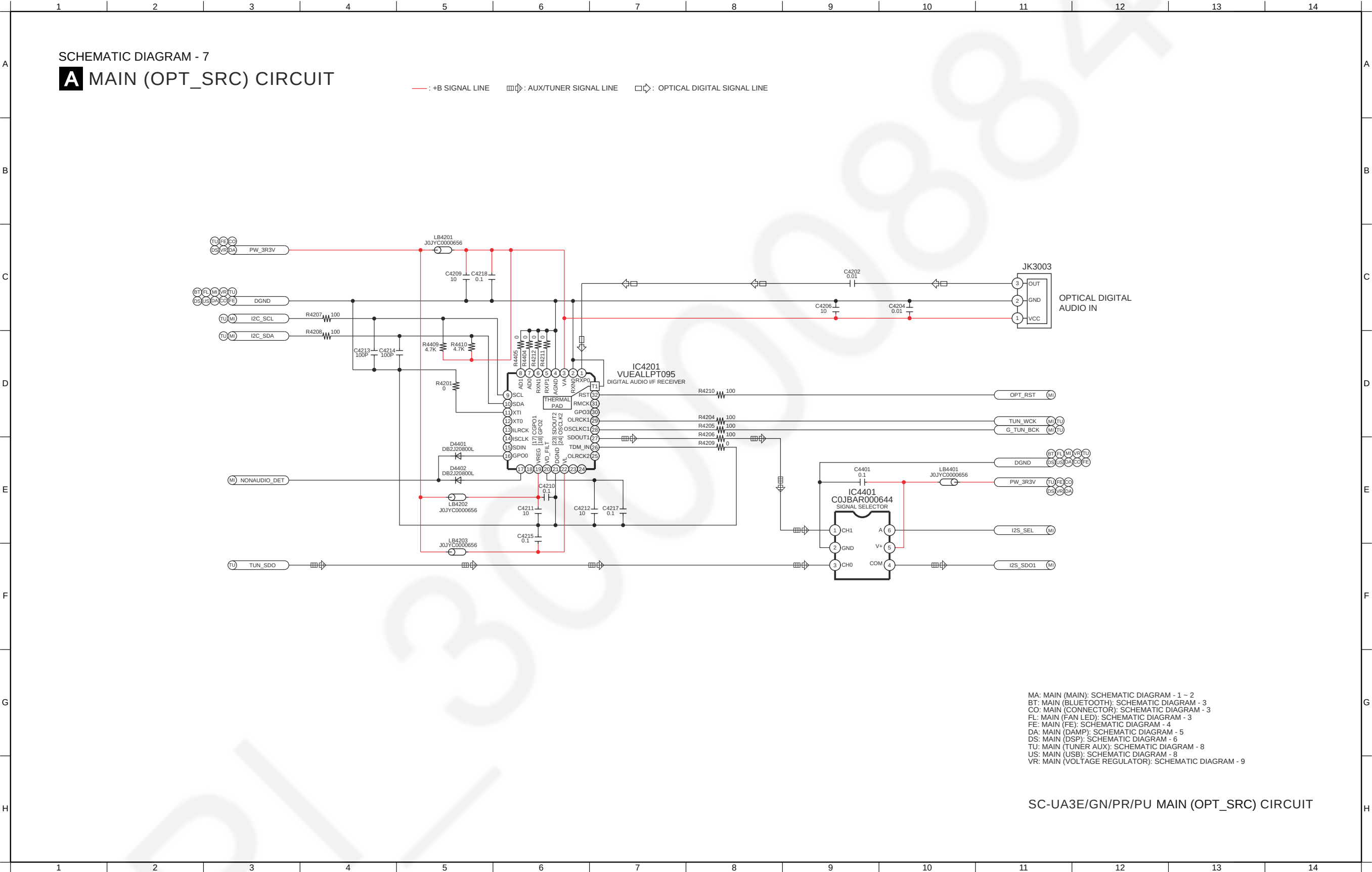
12.6. Main (DAMP) Circuit



12.7. Main (DSP) Circuit



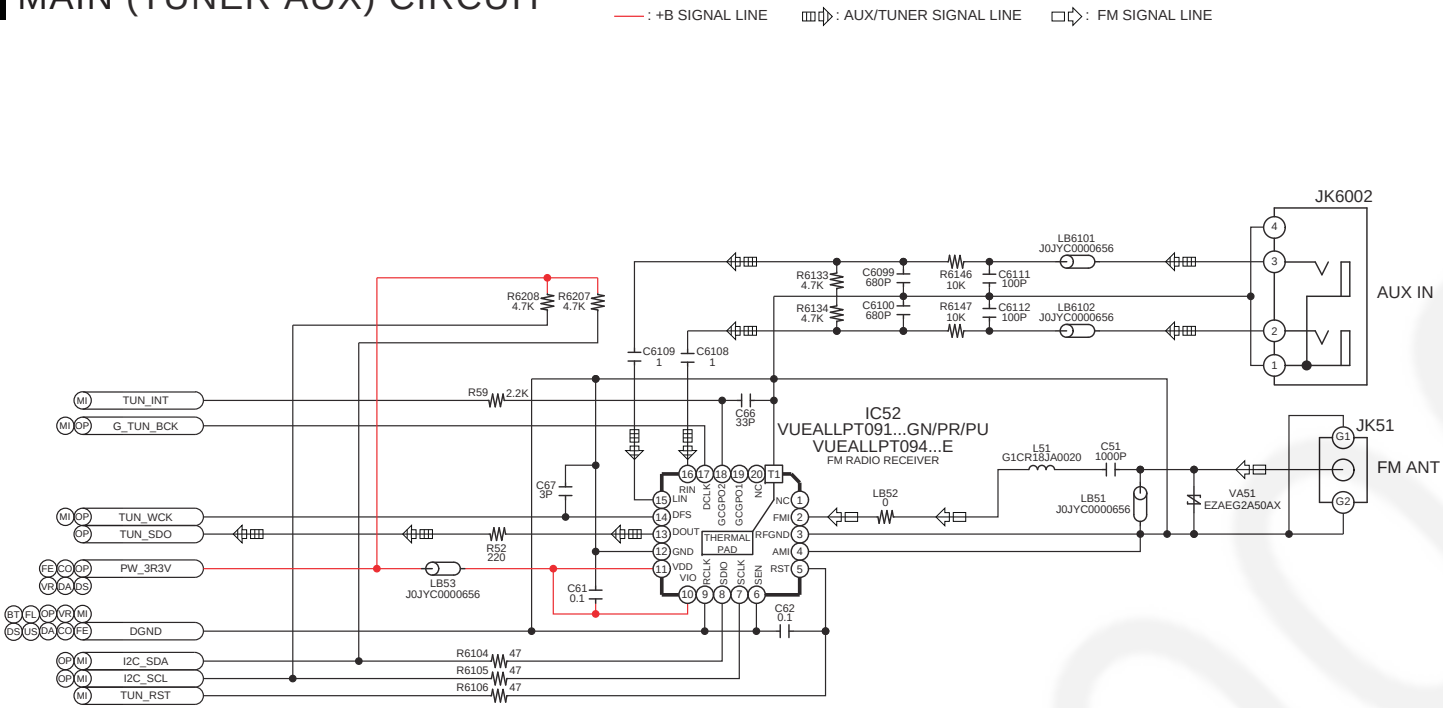
12.8. Main (OPT_SRC) Circuit



12.9. Main (Tuner AUX) and Main (USB) Circuit

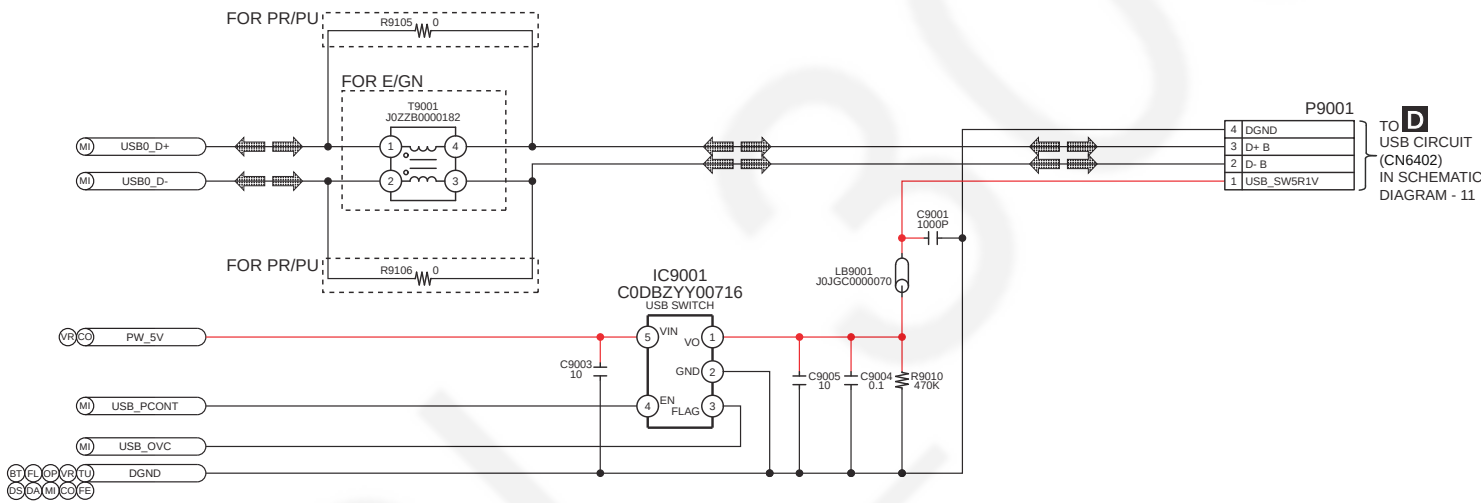
SCHEMATIC DIAGRAM - 8

A MAIN (TUNER AUX) CIRCUIT



A MAIN (USB) CIRCUIT

— : +B SIGNAL LINE : USB SIGNAL LINE



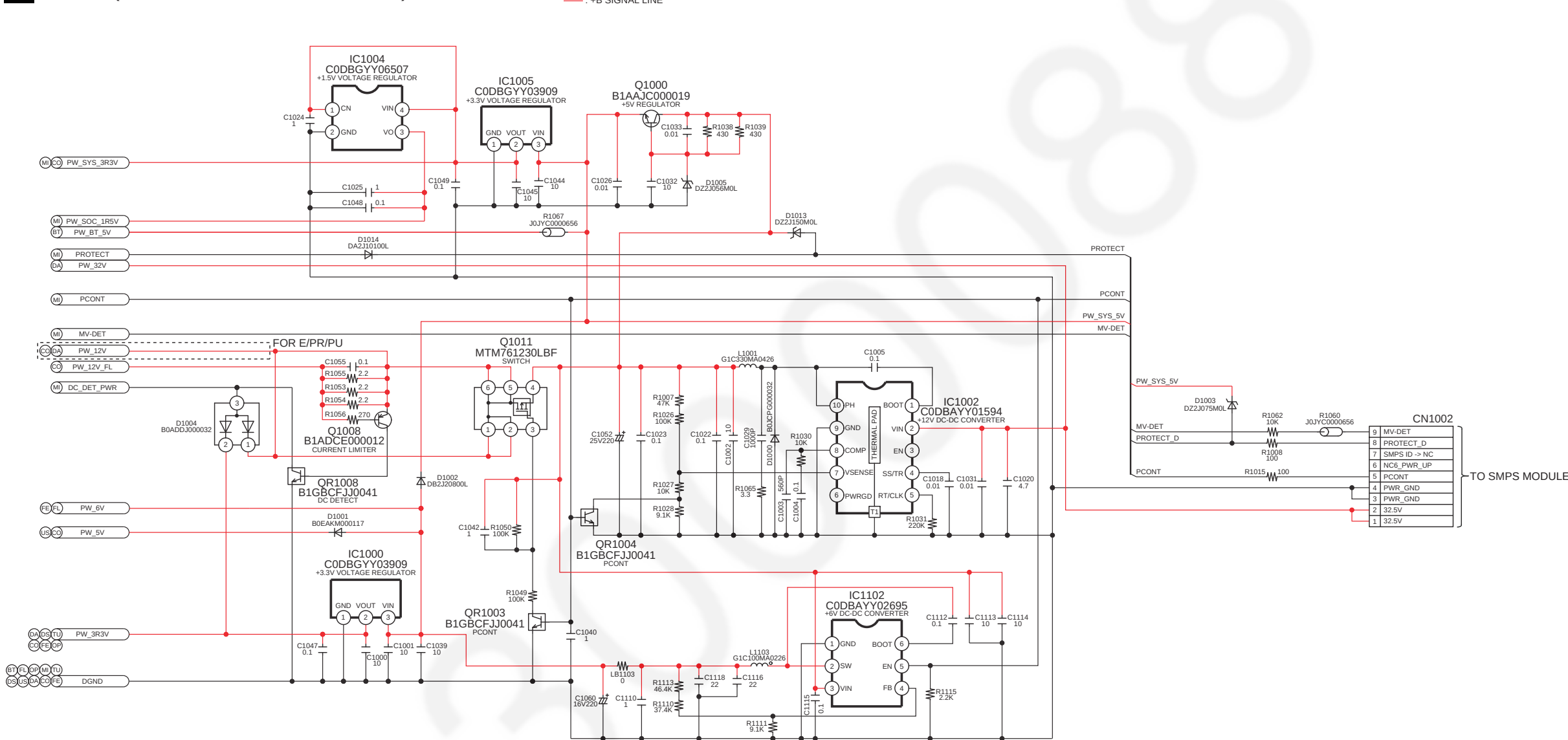
MA: MAIN (MAIN): SCHEMATIC DIAGRAM - 1 ~ 2
BT: MAIN (BLUETOOTH): SCHEMATIC DIAGRAM - 3
CO: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 3
FL: MAIN (FAN LED): SCHEMATIC DIAGRAM - 3
FE: MAIN (FE): SCHEMATIC DIAGRAM - 4
DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 5
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 6
OP: MAIN (OPT. SRC): SCHEMATIC DIAGRAM - 7
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 8
US: MAIN (USB): SCHEMATIC DIAGRAM - 8
VR: MAIN (VOLTAGE REGULATOR): SCHEMATIC DIAGRAM - 9

SC-UA3E/GN/PR/PU MAIN (TUNER AUX) / MAIN (USB) CIRCUIT

12.10. Main (Voltage Regulator) Circuit

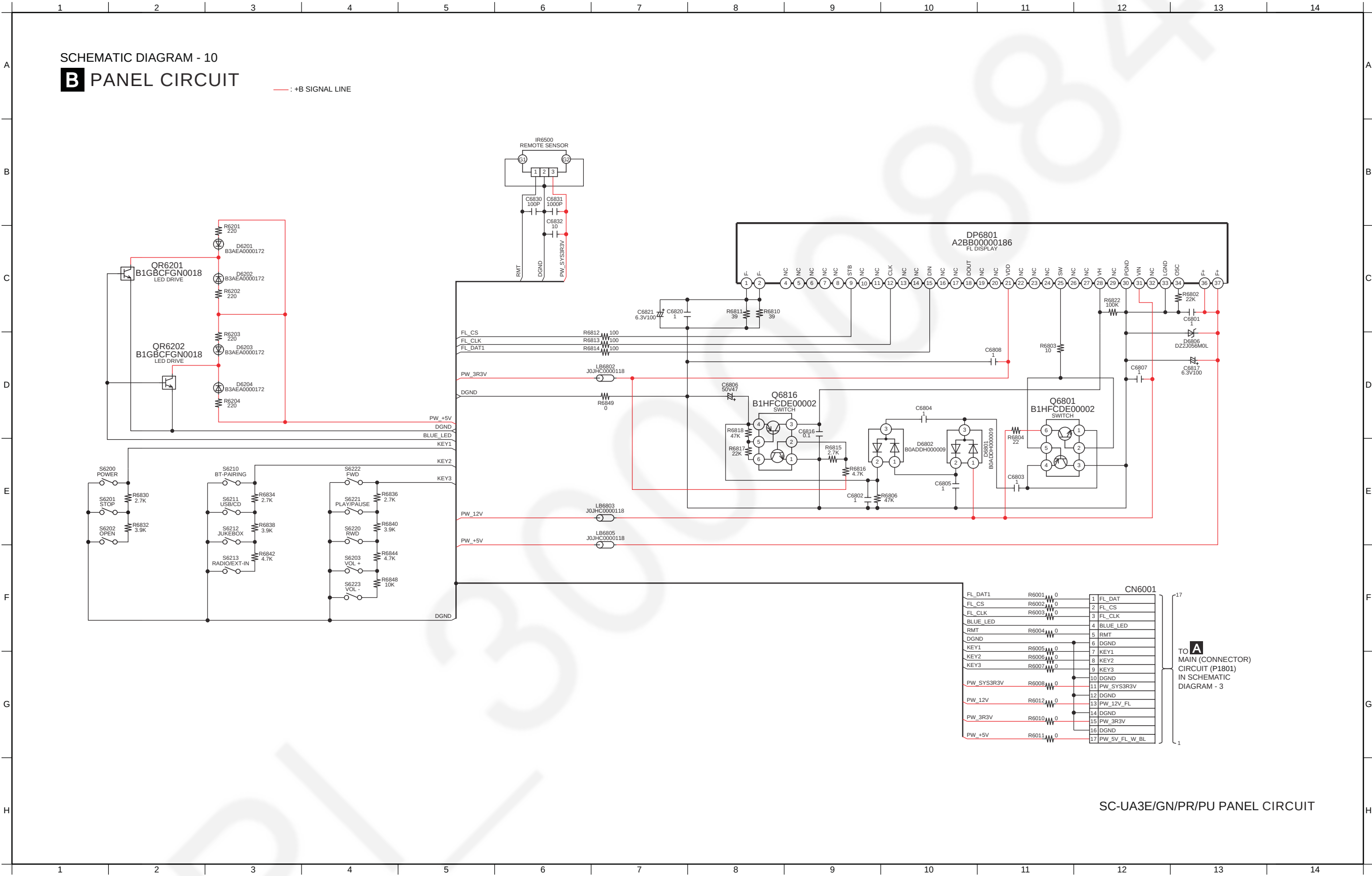
SCHEMATIC DIAGRAM - 9

A MAIN (VOLTAGE REGULATOR) CIRCUIT



SC-UA3E/GN/PR/PU MAIN (VOLTAGE REGULATOR) CIRCUIT

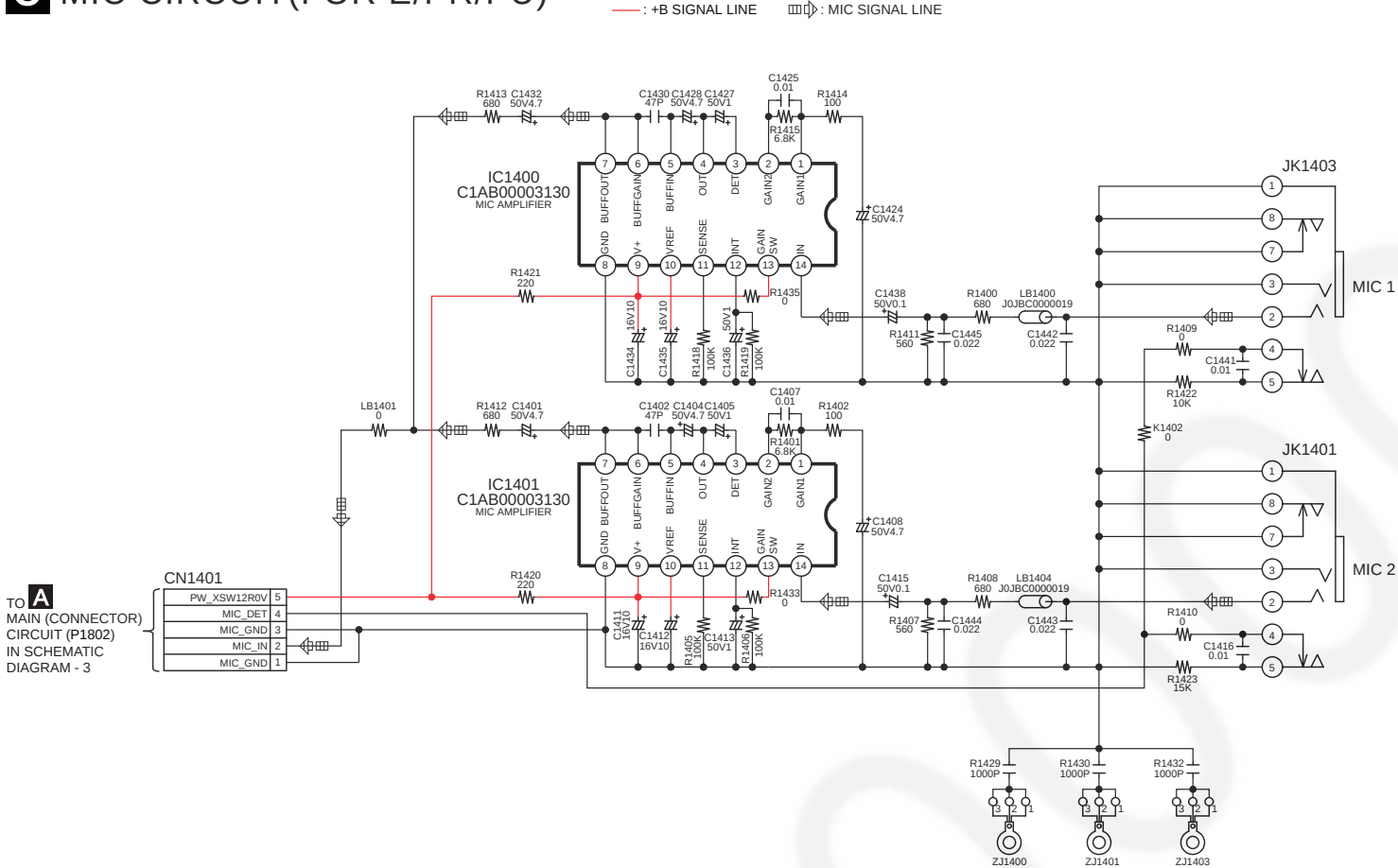
12.11. Panel Circuit



12.12. Mic (For E/PR/PU), USB, LED, CD Interface

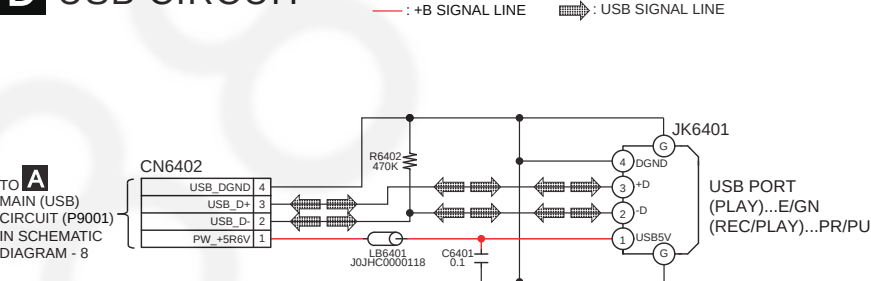
SCHEMATIC DIAGRAM - 11

C MIC CIRCUIT(FOR E/PR/PU)

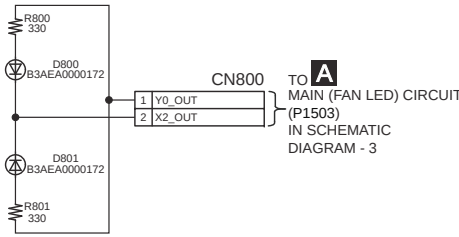


NOTE: " * " REF IS FOR INDICATION ONLY

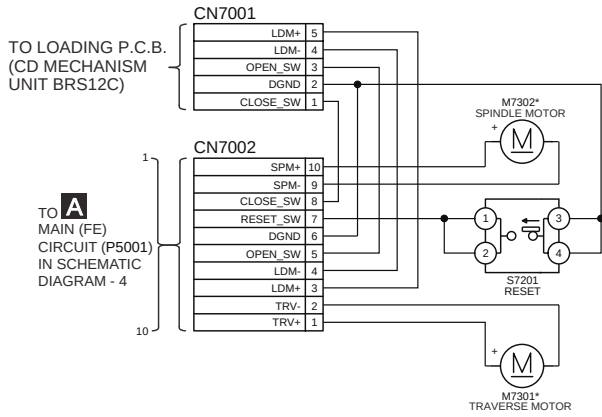
D USB CIRCUIT



E LED CIRCUIT



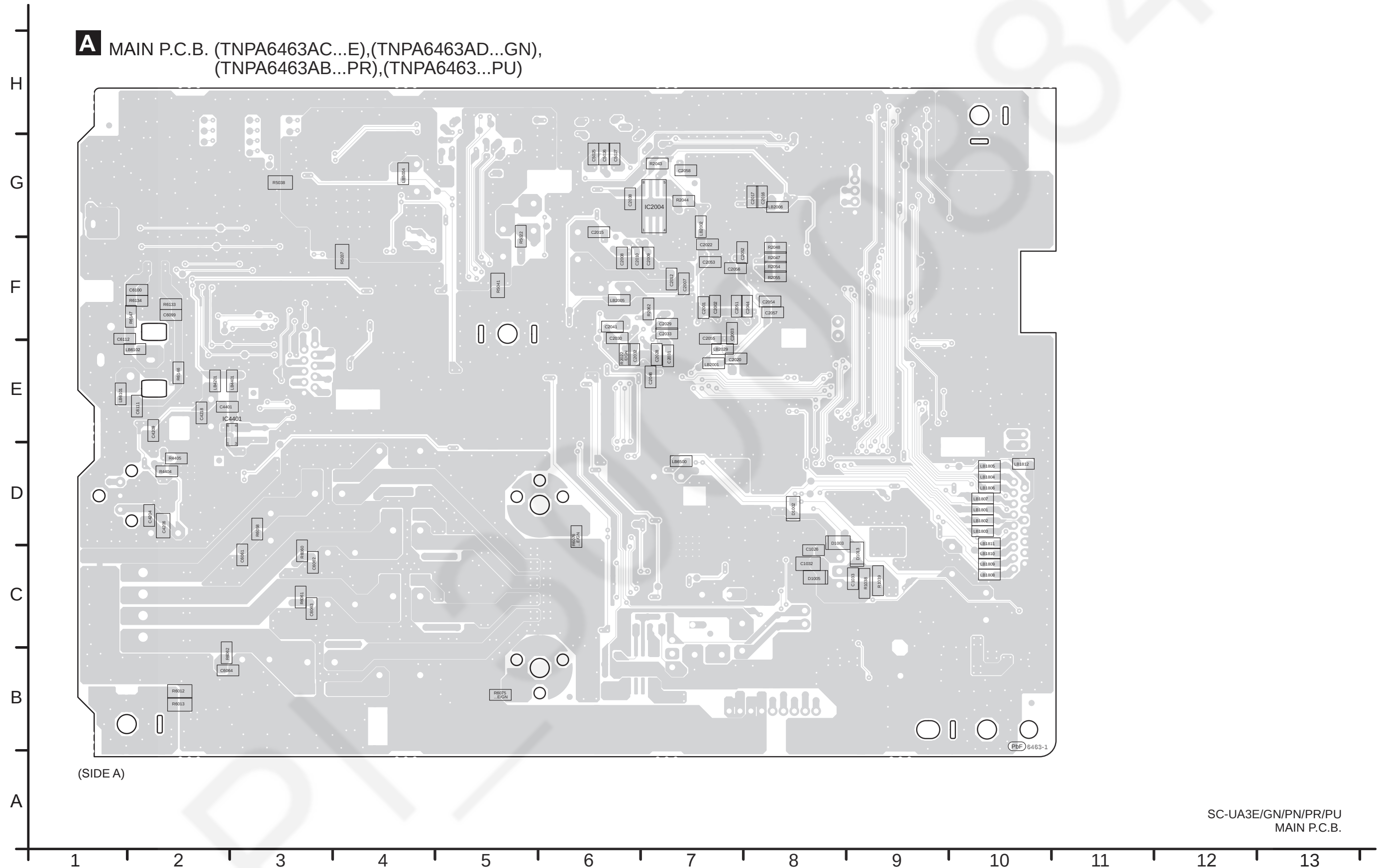
F CD INTERFACE CIRCUIT



SC-UA3E/GN/PR/PU MIC / USB / LED / CD INTERFACE CIRCUIT

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

A MAIN P.C.B. (TNPA6463AC...E),(TNPA6463AD...GN),
(TNPA6463AB...PR),(TNPA6463...PU)



A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top.

FM ANT

AUX IN

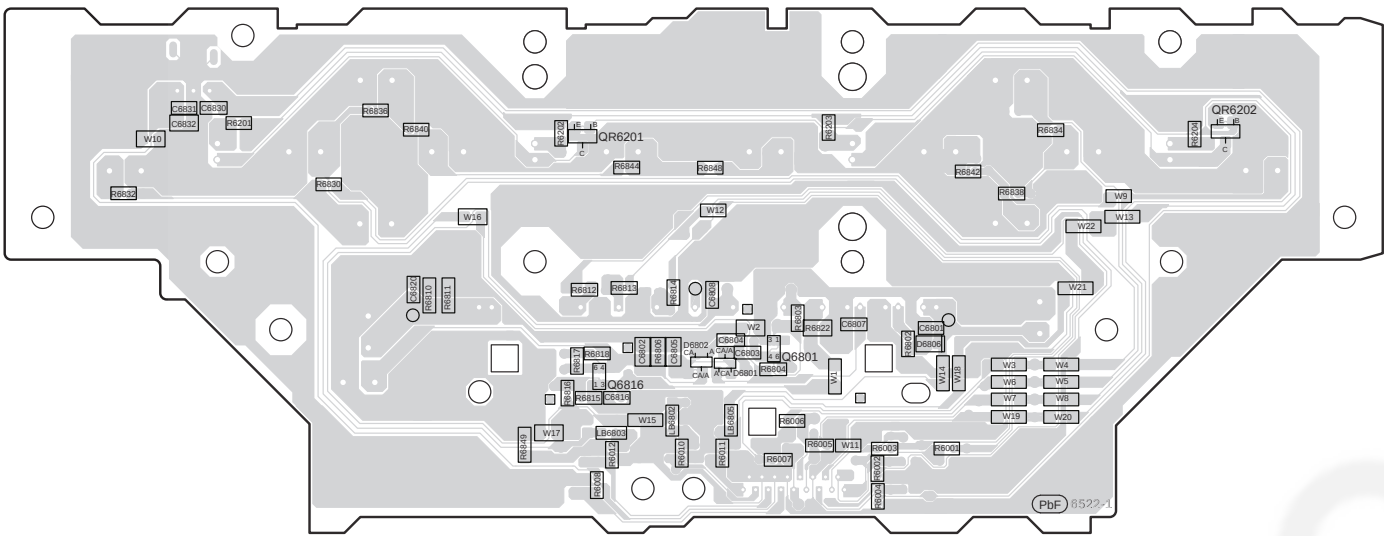
OPTICAL DIGITAL AUDIO IN

TO SPEAKERS

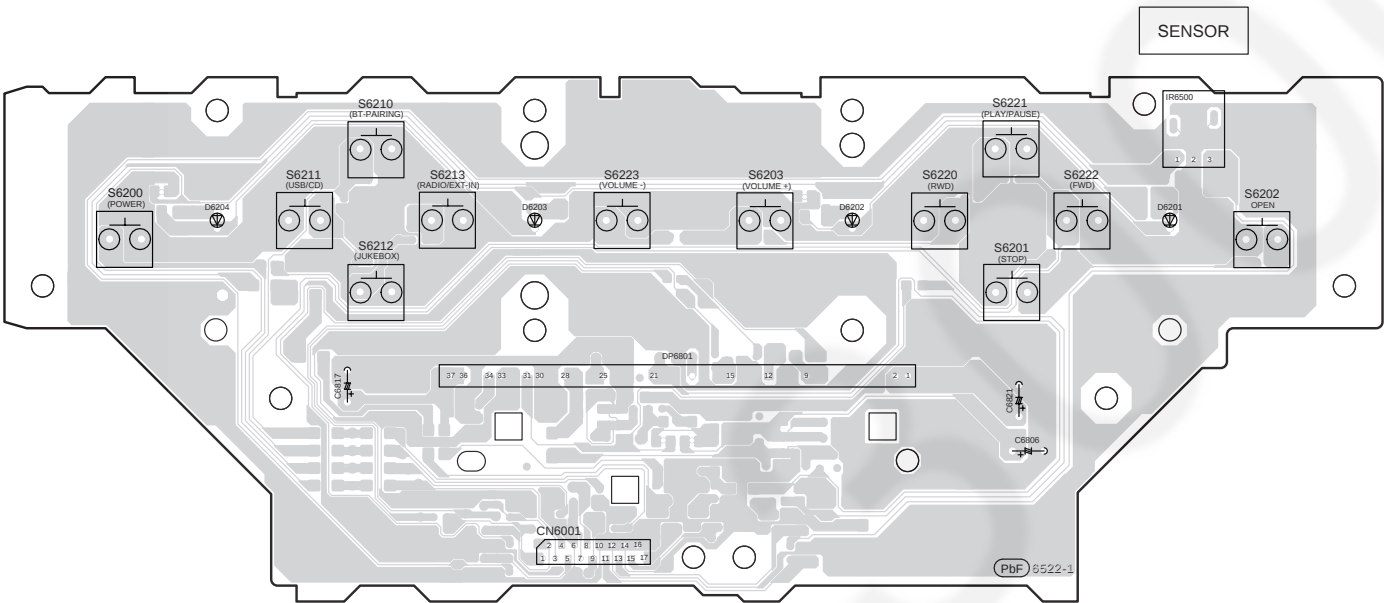
A horizontal number line with tick marks at every integer from 1 to 13. The numbers are labeled below the line.

13.3. Panel, Mic (For E/PR/PU) and USB P.C.B.

B PANEL P.C.B. (TNPA6522AC...E),(TNPA6522AD...GN)
(TNPA6522AB...PR),(TNPA6522...PU)

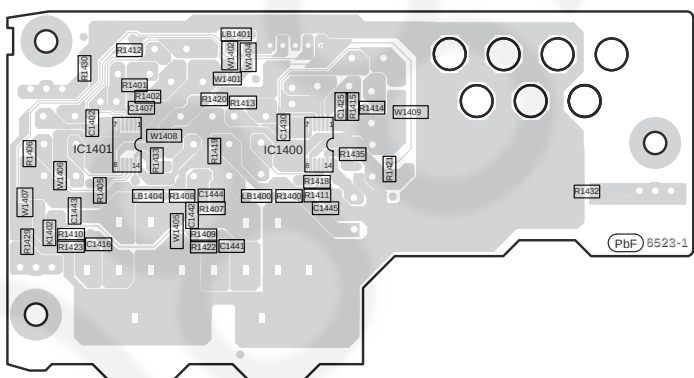


(SIDE A)

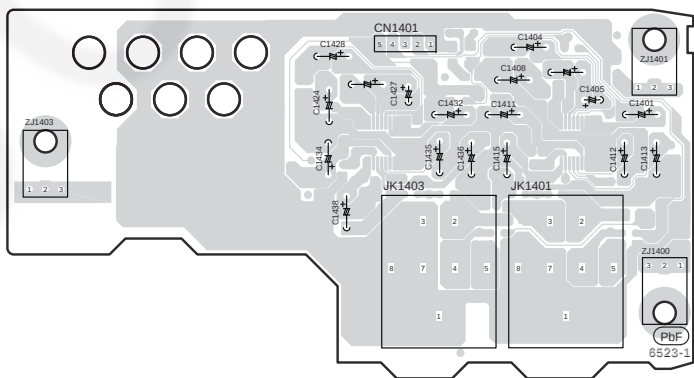


(SIDE B)

C MIC P.C.B.(FOR E/PR/PU) (TNPA6523AC...E),
(TNPA6523AB...PR),(TNPA6523...PU)



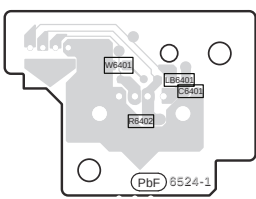
(SIDE A)



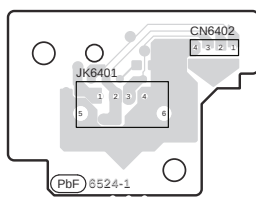
(SIDE B)

MIC 1 MIC 2

D USB P.C.B. (TNPA6524AC...E),(TNPA6524AD...GN)
(TNPA6524AB...PR),(TNPA6524...PU)



(SIDE A)

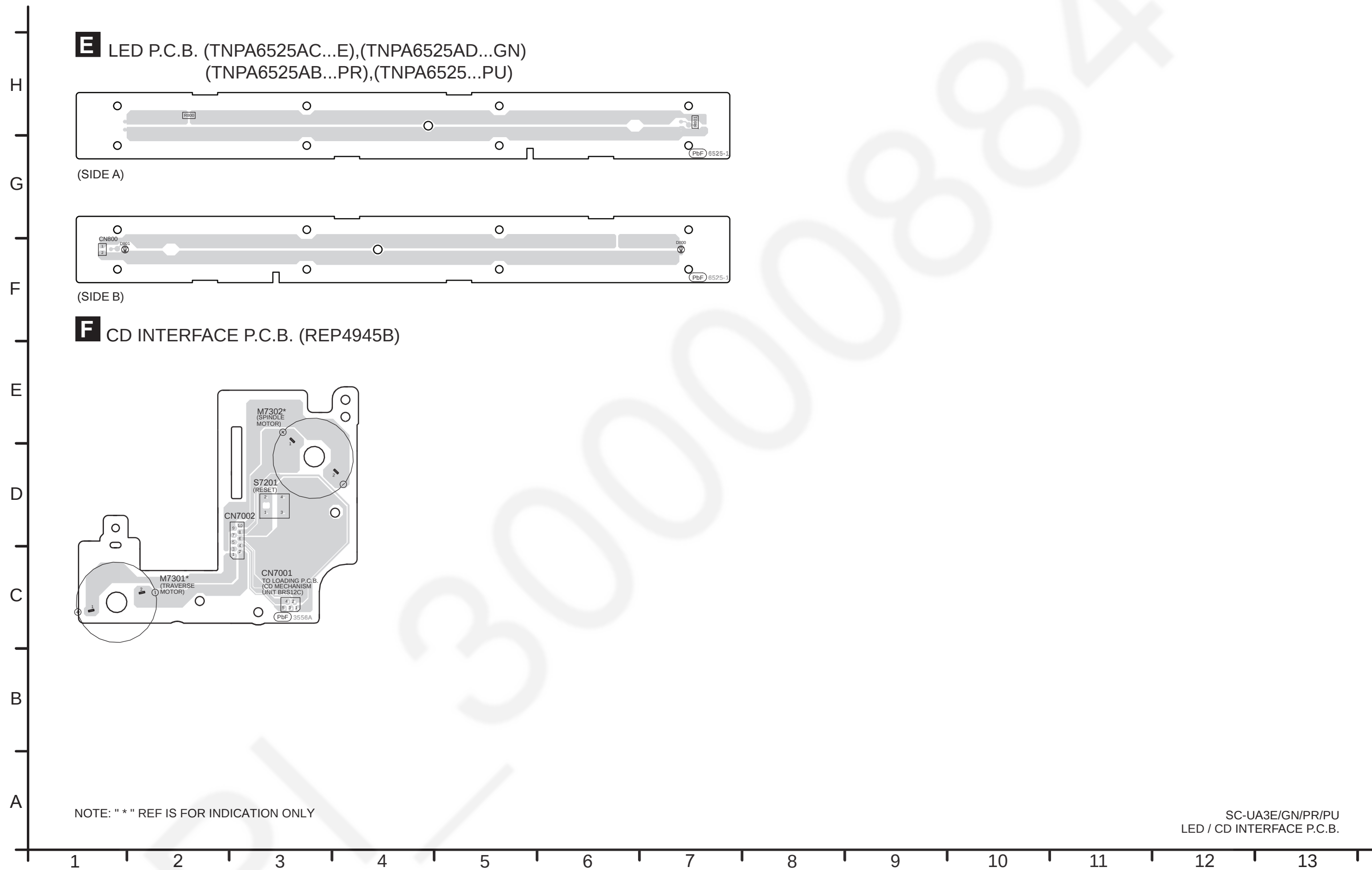


USB PORT
(PLAY)...E/GN
(REC/PLAY)...PR/PU

(SIDE B)

SC-UA3E/GN/PR/PU
PANEL / MIC / USB P.C.B.

13.4. LED and CD Interface P.C.B.



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. (1/3)

REF NO.	IC1000																			
MODE	1	2	3																	
PLAY	0	3.3	5.8																	
STANDBY	0	3.3	5.8																	
REF NO.	IC1002																			
MODE	1	2	3	4	5	6	7	8	9	10										
PLAY	21.5	32	0	2.3	0.5	0	0.8	0.8	0	15.5										
STANDBY	21.5	32	0	2.3	0.5	0	0.8	0.8	0	15.5										
REF NO.	IC1004																			
MODE	1	2	3	4																
PLAY	3.2	0	1.5	3.2																
STANDBY	3.2	0	1.5	3.2																
REF NO.	IC1005																			
MODE	1	2	3																	
PLAY	0	3.3	4.5																	
STANDBY	0	3.3	4.5																	
REF NO.	IC1102																			
MODE	1	2	3	4	5	6														
PLAY	0	3	32.5	0.5	0.8	21.5														
STANDBY	0	3	32.5	0.5	0.8	21.5														
REF NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.2	3.2	3.2	3.2	3.2	3.2	0	0	0	1.1	3.2	0	0	0	0	0	3.2	1.6	0	0
STANDBY	3.2	3.2	3.2	3.2	0	0	0	0	3.2	0	3.2	0	0	0	0	0	3.2	1.6	0	0
REF NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	2.6	3.2	0	3.2	3	3	0	0	3.3	0	3.3	0.1	1.6	1.6	0.5	0.9	0.8	1.6	1.6	1
STANDBY	2.6	3.2	0	3.2	3	3	0	0	3.3	0	3.3	0	1.6	1.6	0	1.6	0.8	1.6	1.6	1
REF NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	0	1.6	1.6	2	2	3.2	3.2	3.2	3.2	1.6	1.6	0	1.6	1.6	0	1.9	1.6	1.6	1.6
STANDBY	1	0	1.6	1.6	1.6	2	3.2	1.5	3.2	1.6	1.6	1.6	0	1.6	1.6	0	3.3	1.6	1.6	1.6
REF NO.	IC2001																			
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	1.6	1.6	1.6	1.6	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0
STANDBY	1.6	1.6	1.6	1.6	1.6	0	1.6	1.6	1.6	1.6	0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0
REF NO.	IC2001																			
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	0	2.9	1.1	2.7	2.9	0.2	0.2	1.6	3.3	3.3	0	3.2	0	0	0	0
STANDBY	0	1.6	1.6	0	0	3.2	1.6	3.2	3.2	0	0	1.6	3.3	3.3	0	3.2	0	0	0	1.2

SC-UA3E/GN/PR/PU MAIN P.C.B.

14.1.2. Main P.C.B. (2/3)

REF NO.	IC2001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	3.2	3.2	0	0	3.2	0	0	3.2	3.2	1.6	1.6	1.6	0	0	0	3.2	3.2	3.2	3.2	3.2
STANDBY	2	2	2	0	3.2	2	0	3.2	1.2	1.2	1.1	1.2	3.2	3.2	3.2	3.2	1.5	3.2	3.2	3.2
REF NO.	IC2001																			
MODE	121	122	123	124	125	126	127	128												
PLAY	1.8	3.3	0	1.5	1.5	0	1.5	1.5												
STANDBY	1.8	1	0	1.5	1.5	1.5	1.5	1.5												
REF NO.	IC2002																			
MODE	1	2	3	4																
PLAY	0	3.3	1.2	2.8																
STANDBY	0	3.3	1.2	2.8																
REF NO.	IC4201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	3.3	0	0	0	0	0	1.2	1.2	0	0	0	0	0	3.3	3.3	0	3.3	3.3
STANDBY	0	0	3.3	0	0	0	0	0	1.2	1.2	0	0	0	0	0	3.3	3.3	0	3.3	3.3
REF NO.	IC4201																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
PLAY	0	3.3	0	0	0	0	1.2	1.2	1.2	0	0	1.2								
STANDBY	0	3.3	0	0	0	0	1.2	1.2	1.2	0	0	1.2								
REF NO.	IC4401																			
MODE	1	2	3	4	5	6														
PLAY	0	0	3.3	3.3	3.3	3.3														
STANDBY	0	0	3.3	3.3	3.3	3.3														
REF NO.	IC5001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	1.6	5.4	3	1.6	0	0	5.4	0	0	2.9	2.9	2.9	2.9	2.9	2.8	3.3	2.2	5.4	0
STANDBY	0	1.6	5.4	3	1.6	0	0	5.4	0	0	2.9	2.9	2.9	2.9	2.9	2.8	3.3	2.2	5.4	0
REF NO.	IC5001																			
MODE	21	22	23	24	25	26	27	28	29	30										
PLAY	1.5	0	1.8	0	5.4	1.6	1.6	3.3	0	0										
STANDBY	1.5	0	1.8	0	5.4	1.6	1.6	3.3	0	0										
REF NO.	IC52																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	1.5	0	0	0	0	0	0	0	3.3	3.3	0	1.4	0.3	0.3	0.3	3.3	0	0	0
STANDBY	0	1.5	0	0	0	0	0	0	0	3.3	3.3	0	1.4	0.3	0.3	0.3	3.3	0	0	0
REF NO.	IC6000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	11.5	11.5	1.2	3.3	1.7	1.7	2.7	2.7	0	0	0	0	7.8	1.7	1.7	3.3	3.3	3.3	0	2.8
STANDBY	11.5	11.5	1.2	3.3	1.7	1.7	2.7	2.7	0	0	0	0	7.8	1.7	1.7	3.3	3.3	3.3	0	2.8

SC-UA3E/GN/PR/PU MAIN P.C.B.

14.1.3. Main P.C.B. (3/3)

REF NO.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	11.5	27.5	27.5	0	0	16.3	16.3	32	32	1.5	16.3	0	0	16.3	32	32	32	16.3	16.3
STANDBY	0	11.5	27.5	27.5	0	0	16.3	16.3	32	32	1.5	16.3	0	0	16.3	32	32	32	16.3	16.3
REF NO.	IC6000																			
MODE	41	42	43	44																
PLAY	0	0	27.8	27.8																
STANDBY	0	0	27.8	27.8																
REF NO.	IC6500																			
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	1.3	0	0.8	1.7	1.6	3.3	0	1.5	1.5	0	0	0	0	0	0
STANDBY	3.3	3.3	3.3	3.3	3.3	1.3	0	0.8	1.7	1.6	3.3	0	1.5	1.5	0	0	0	0	0	0
REF NO.	IC6500																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	3.3	0	0	3.3	0	3.3	1.7	1.7	1.7	1.7	0	0	0	0	3.3	0	0	0	0	3.3
STANDBY	3.3	0	0	3.3	0	3.3	1.7	1.7	1.7	1.7	0	0	0	0	3.3	0	0	0	0	3.3
REF NO.	IC6500																			
MODE	41	42	43	44	45	46	47	48												
PLAY	0	1.4	0	0	3.3	0	0	0												
STANDBY	0	1.4	0	0	3.3	0	0	0												
REF NO.	IC7000																			
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	3.3	0	3.3	0	3.3	0				
STANDBY	0	3.3	0	3.3	0	0	0	0	5	0	3.3	0	3.3	0	3.3	0				
REF NO.	IC7001																			
MODE	1	2	3	4																
PLAY	3.3	0	5	5																
STANDBY	3.3	0	5	5																
REF NO.	IC9001																			
MODE	1	2	3	4	5															
PLAY	5	0	3.3	0	5.1															
STANDBY	5	0	3.3	0	5.1															
REF NO.	Q1000				Q1008				Q1011						Q2001					
MODE	E	C	B		E	C	B		1	2	3	4	5	6		E	C	B		
PLAY	12	16	12		12	0	12		12	12	12	12	12	12		0	0	0.6		
STANDBY	12	16	12		12	0	12		12	12	12	12	12	12		0	0	0.6		
REF NO.	Q5001				Q6001				Q6002				Q6007				Q6300			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
PLAY	3.2	12	3.2		0	3.2	0		32	0	12		16	11.5	0		16	11.5	0	
STANDBY	3.2	12	3.2		0	3.2	0		32	0	12		16	11.5	0		16	11.5	0	
REF NO.	QR1003				QR1004				QR1008				QR8503							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
PLAY	0	0	3.3		0	0	3.3		0	3.3	0		0	0.1	3.2					
STANDBY	0	0	3.3		0	0	3.3		0	3.3	0		0	0.1	3.2					

SC-UA3E/GN/PR/PU MAIN P.C.B.

14.1.4. Mic P.C.B.

REF NO.	IC1400 (For E/PR/PU)																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6	6	6	6	6	6	6	0	12	5.7	0.3	0	11.9	12						
STANDBY	6	6	6	6	6	6	6	0	12	5.7	0.3	0	11.9	12						

REF NO.	IC1401 (For E/PR/PU)																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	6	6	6	6	6	6	6	0	12	5.7	0.3	0	11.9	12						
STANDBY	6	6	6	6	6	6	6	0	12	5.7	0.3	0	11.9	12						

SC-UA3E/PR/PU MIC P.C.B.

14.1.5. Panel P.C.B.

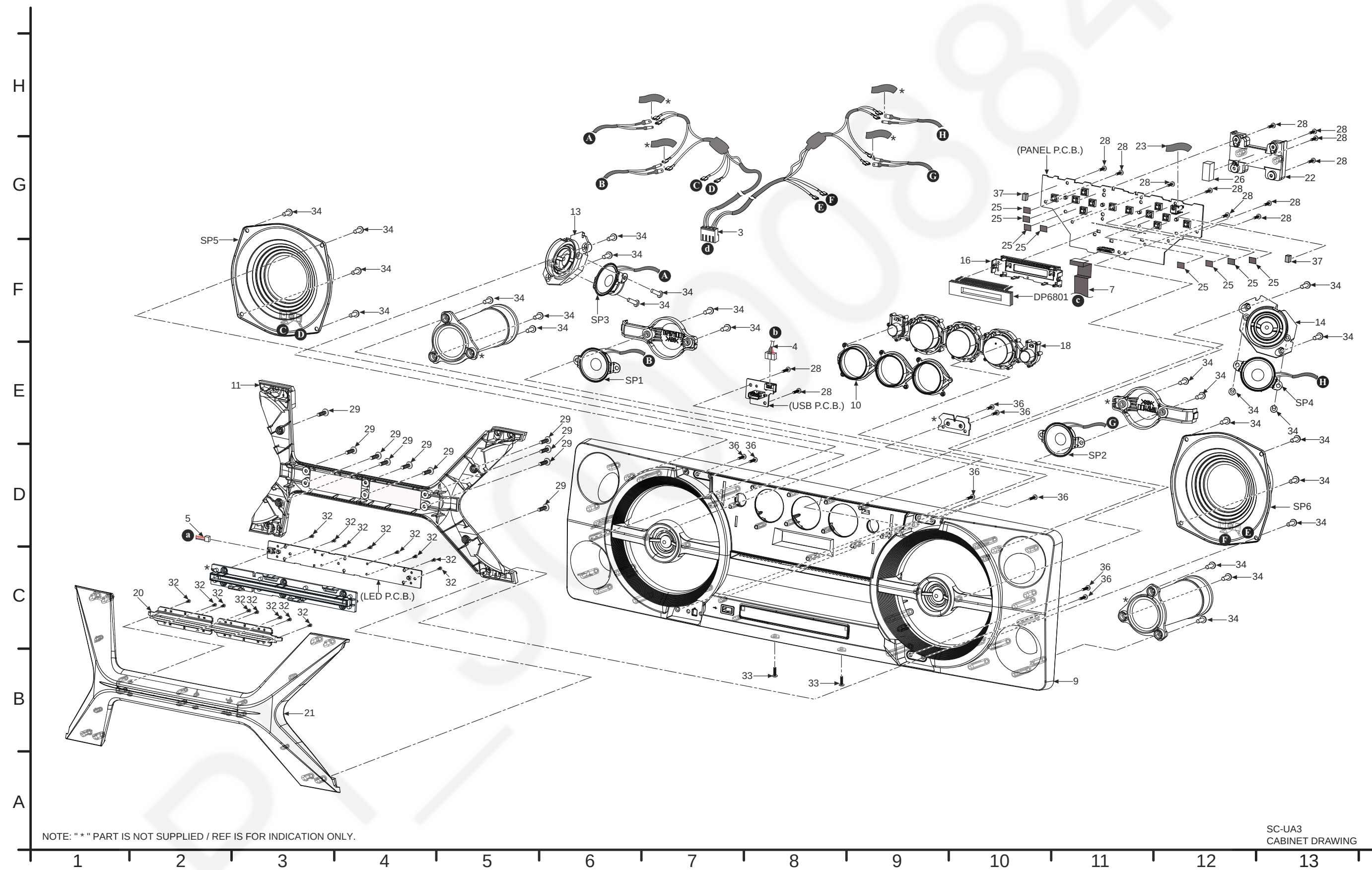
REF NO.	Q6801						Q6816						QR6201							
MODE	1	2	3	4	5	6	1	2	3	4	5	6	E	C	B					
PLAY	15.5	0	0	15.5	0	15.5	0	3.3	0	3.3	0	0	0	0.1	3.2					
STANDBY	15.5	0	0	15.5	0	15.5	0	3.3	0	3.3	0	0	0	0.1	3.2					

REF NO.	QR6202																				
MODE	E	C	B																		
PLAY	0	0.1	3.2																		
STANDBY	0	0.1	3.2																		

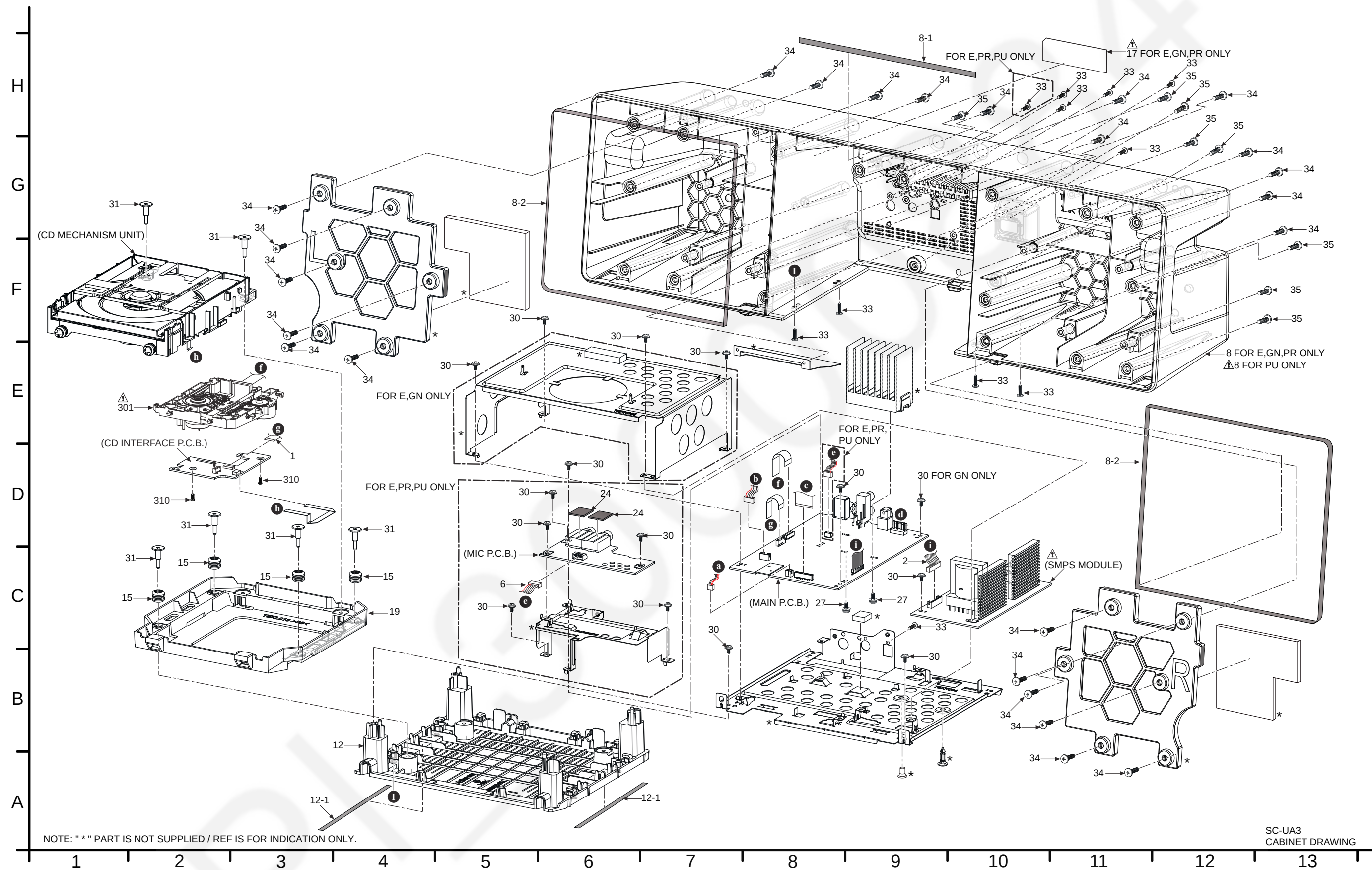
SC-UA3E/GN/PR/PU PANEL P.C.B.

15 Exploded View and Replacement Parts List

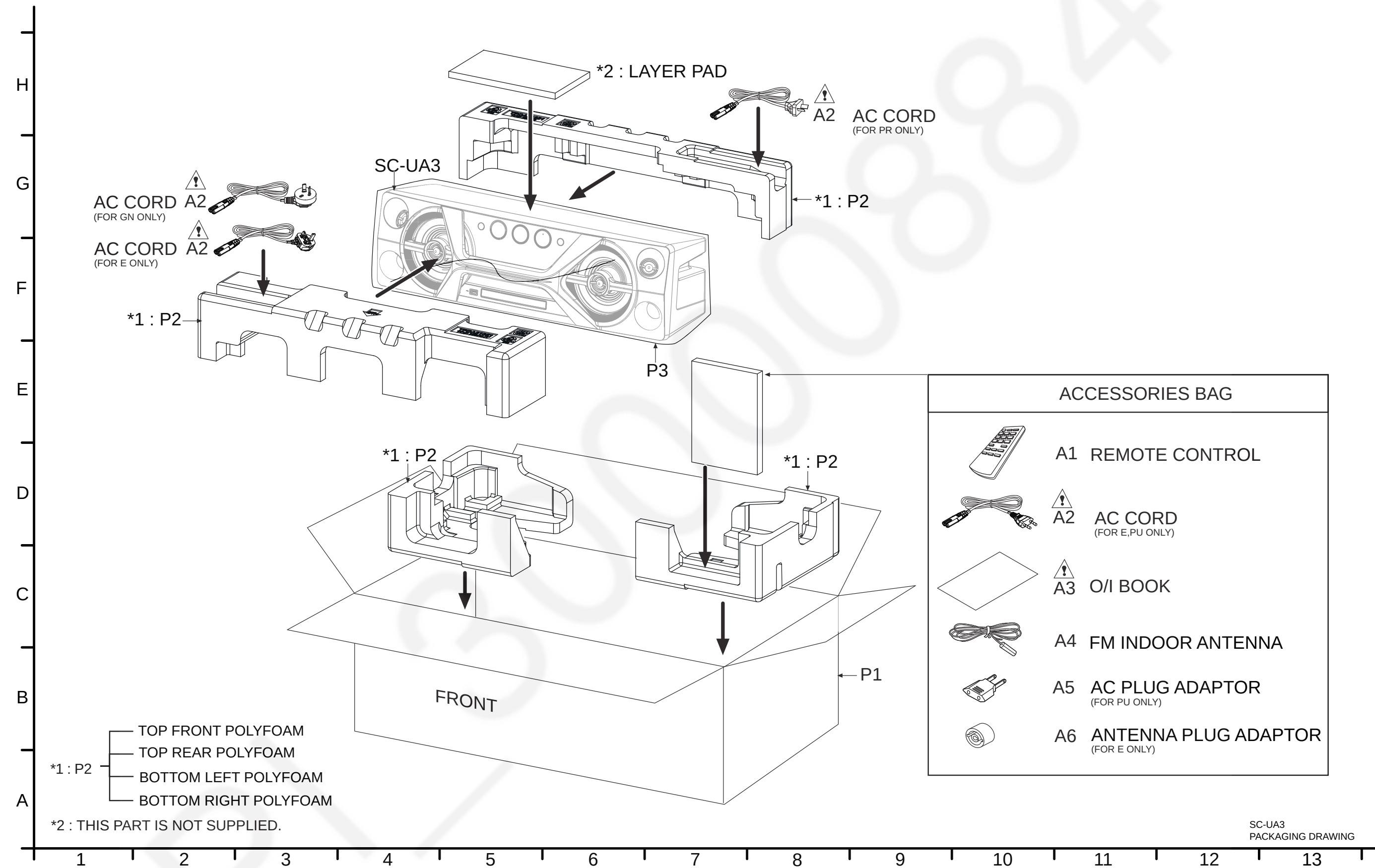
15.1. Cabinet Parts Location 1



15.2. Cabinet Parts Location 2



15.3. Packaging



15.4. Mechanical 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.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- 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	REE1730	10P FFC (MAIN-MECHA)	1	
	2	REX1808	9P FLAT WIRE (MAIN-SMPS)	1	
	3	TNMX071-1	4P WIRE (MAIN-SPEAKER)	1	UA3E-K, UA3GN-K
	3	TNMX038-1	4P WIRE (MAIN-SPEAKER)	1	UA3PR-K, UA3PU-K
	4	TNMX039	4P WIRE (MAIN-USB)	1	
	5	TNMX040	2P WIRE (MAIN-LED)	1	
	6	TNMX061	5P SHIELDED WIRE (MAIN-MIC)	1	UA3E-K
	6	TNMX041	5P WIRE (MAIN-MIC)	1	UA3PR-K, UA3PU-K
	7	TZH3QKZ011	17P FFC (MAIN-PANEL)	1	
	8	RFKHSCUA3PRK	REAR CABINET ASS'Y	1	UA3E-K, UA3PR-K
	8	RFKHSCUA3GNK	REAR CABINET ASS'Y	1	UA3GN-K
$\triangle$	8	RFKHSCUA3PUK	REAR CABINET ASS'Y	1	UA3PU-K
	8-1	RMF0689B	EPT SEALER	1	
	8-2	TMKK688	EPT SEALER	2	
	9	RFKGSCUA3PUK	FRONT PANEL ASS'Y	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	10	RFKNSCUA3PUK	BUTTON LIGHT PIECE ASS'Y	1	
	11	RFKNCUA3PUHK	HANDLE BACK ASS'Y	1	
	12	RFKJSCUA3PUK	BOTTOM FRAME ASS'Y	1	
	12-1	TMKZ992	EVA	2	
	13	RFKNCUA3PULK	TWEETER SPACER (L) ASS'Y	1	
	14	RFKNCUA3PURK	TWEETER SPACER (R) ASS'Y	1	
	15	RMG0968-G	REAR DAMPER	4	
	16	RMN1049-1	FL HOLDER	1	
$\triangle$	17	TBMK4906	NAMEPLATE	1	UA3E-K
$\triangle$	17	TBMK4904	NAMEPLATE	1	UA3GN-K
$\triangle$	17	TBMK4902	NAMEPLATE	1	UA3PR-K
	18	TBXA61801	BUTTON	1	
	19	TEKL013	MECHA FRAME	1	
	20	TKKC54711	HANDLE LIGHT BAR	1	
	21	TKKQ50021	HANDLE FRONT	1	
	22	TEKL016	CENTER SUPPORT	1	
	23	RMF0731	EVA	1	
	24	TMKZ959	EVA	2	UA3E-K, UA3PR-K, UA3PU-K
	25	TMKS037	EPT	8	
	26	TMKZ962	HIMELON	1	
	27	RHD26043-1	SCREW	2	
	28	RHD26046	SCREW	13	
	29	RHD26056	SCREW	10	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	30	RHD30111-31	SCREW	14	UA3E-K, UA3PR-K, UA3PU-K
	30	RHD30111-31	SCREW	10	UA3GN-K
	31	RHD3031008	SCREW	6	
	32	VHD1224-1A	SCREW	16	
	33	XTB3+10JFJK	SCREW	13	UA3E-K, UA3PR-K, UA3PU-K
	33	XTB3+10JFJK	SCREW	12	UA3GN-K
	34	XTB4+12GFJ	SCREW	50	
	35	XTB4+12GFJK	SCREW	8	
	36	XTB4+16GFJK	SCREW	8	
	37	TMKS038	PORON	2	
			SPEAKER UNITS		
	SP1	L0AA04A00065	TWEETER SPEAKER (4CM)	1	
	SP2	L0AA04A00065	TWEETER SPEAKER (4CM)	1	
	SP3	L0AA04A00067	TWEETER SPEAKER (4CM)	1	
	SP4	L0AA04A00067	TWEETER SPEAKER (4CM)	1	
	SP5	RFKASCUA3PUK	WOOFER SPEAKER ASS'Y	1	
	SP6	RFKASCUA3PUK	WOOFER SPEAKER ASS'Y	1	
			TRAVERSE DECK		
△	301	TXQ0011	TRAVERSE ASS'Y	1	(E.S.D)
	310	XTN2+6GFJ	SCREW	2	
			PACKING MATERIALS		
	P1	TPCD73101A	PACKING CASE	1	UA3E-K
	P1	TPCD72901	PACKING CASE	1	UA3GN-K
	P1	TPCD69101	PACKING CASE	1	UA3PR-K
	P1	TPCD69001A	PACKING CASE	1	UA3PU-K
	P2	TPH0083	POLYFOAM	1	
	P3	TPEH875	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB001149	REMOTE CONTROL	1	UA3E-K, UA3GN-K
	A1	N2QAYB001150	REMOTE CONTROL	1	UA3PR-K, UA3PU-K
△	A2	K2CT2YY00089	AC CORD	1	UA3E-K
△	A2	K2CQ2YY00107	AC CORD	1	UA3E-K, UA3PU-K
△	A2	K2CJ2YY00084	AC CORD	1	UA3GN-K
△	A2	K2CA2YY00039	AC CORD	1	UA3PR-K
△	A3	TQBJ2015	OI (En/Sw/Da/ Fi)	1	UA3E-K
△	A3	TQBJ2016	OI (Ge/Fr/It/ Du)	1	UA3E-K
△	A3	TQBJ2017	OI (Sp/Po/Cz)	1	UA3E-K
△	A3	TQBJ2013	OI (En)	1	UA3GN-K
△	A3	TQBJ2011	OI (Sp)	1	UA3PR-K, UA3PU-K
△	A3	TQBJ2010	OI (En)	1	UA3PU-K
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	K2DAYYY00002	AC PLUG ADAPTOR	1	UA3PU-K
	A6	K1YZ02000013	ANTENNA PLUG ADAPTOR	1	UA3E-K

15.5. Electrical Replacement Parts 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.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) 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	TNPA6463AC	MAIN P.C.B	1	(RTL) UA3E-K
	PCB1	TNPA6463AD	MAIN P.C.B	1	(RTL) UA3GN-K
	PCB1	TNPA6463AB	MAIN P.C.B	1	(RTL) UA3PR-K
	PCB1	TNPA6463	MAIN P.C.B	1	(RTL) UA3PU-K
			INTEGRATED CIRCUITS		
	IC52	VUEALLPT094	IC	1	(E.S.D) UA3E-K
	IC52	VUEALLPT091	IC	1	(E.S.D) UA3GN-K, UA3PR-K, UA3PU-K
	IC1000	C0DBGYY03909	IC	1	(E.S.D)
	IC1002	C0DBAYY01594	IC	1	(E.S.D)
	IC1004	C0DBGYY06507	IC	1	(E.S.D)
	IC1005	C0DBGYY03909	IC	1	(E.S.D)
	IC1102	C0DBAYY02695	IC	1	(E.S.D)
	IC2001	C1AB00004409	IC	1	(E.S.D)
	IC2002	C0EBY0000664	IC	1	(E.S.D)
	IC2003	RFKWFSCUA3PU	IC	1	(E.S.D)
	IC2004	RFKWESCUA3PU	IC	1	(E.S.D)
	IC4201	VUEALLPT095	IC	1	(E.S.D)
	IC4401	C0JBAR000644	IC	1	(E.S.D)
	IC5001	C0GBY0000213	IC	1	(E.S.D)
	IC6000	C1AB00004014	IC	1	(E.S.D)

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC6500	VUEALLPT090	IC	1	(E.S.D)
	IC7000	RSNE031B0	IC/BT MODULE	1	(E.S.D)
	IC7001	C0DBGYY00969	IC	1	(E.S.D)
	IC9001	C0DBZYY00716	IC	1	(E.S.D)
			CAPACITORS		
	C51	FLG1H102A830	1000pF 50V	1	
	C61	FLH1H104B047	0.1uF 50V	1	
	C62	FLH1H104B047	0.1uF 50V	1	
	C66	FLH1H330B052	33pF 50V	1	
	C67	FLH1H3R0B050	3pF 50V	1	
	C1000	FLJ1A106A043	10uF 10V	1	
	C1001	FLJ1C1060006	10uF 16V	1	
	C1002	FLJ1E106A253	10uF 25V	1	
	C1003	FLH1H561B052	560pF 50V	1	
	C1004	FLH1H104B047	0.1uF 50V	1	
	C1005	FLH1H104B047	0.1uF 50V	1	
	C1018	FLH1H103B047	0.01uF 50V	1	
	C1020	FLK1H475A250	4.7uF 50V	1	
	C1022	FLH1H104B047	0.1uF 50V	1	
	C1023	FLH1H104B047	0.1uF 50V	1	
	C1024	FLH1A1050039	1uF 10V	1	
	C1025	FLH1A1050039	1uF 10V	1	
	C1026	FLH1H103B047	0.01uF 50V	1	
	C1029	FLH1H102B047	1000pF 50V	1	
	C1031	FLH1H104B047	0.1uF 50V	1	
	C1032	FLJ1C1060006	10uF 16V	1	
	C1033	FLH1H103B047	0.01uF 50V	1	
	C1039	FLJ1C1060006	10uF 16V	1	
	C1040	FLH1A1050039	1uF 10V	1	
	C1042	FLH1E105A153	1uF 25V	1	
	C1044	FLJ1C1060006	10uF 16V	1	
	C1045	FLJ1A106A043	10uF 10V	1	
	C1047	FLH1H104B047	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1048	F1H1H104B047	0.1uF 50V	1	
	C1049	F1H1H104B047	0.1uF 50V	1	
	C1052	F2A1E221B422	220uF 25V	1	
	C1055	F1H1H104B047	0.1uF 50V	1	
	C1060	F2A1C221B456	220uF 16V	1	
	C1110	F1H1A105A113	1uF 10V	1	
	C1112	F1H1H104B047	0.1uF 50V	1	
	C1113	F1J1E106A253	10uF 25V	1	
	C1114	F1J1E106A253	10uF 25V	1	
	C1115	F1H1H104B047	0.1uF 50V	1	
	C1116	F1K1C2260001	22uF 16V	1	
	C1118	F1K1C2260001	22uF 16V	1	
	C1501	F1H1H104B047	0.1uF 50V	1	
	C1801	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1802	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3PR-K, UA3PU-K
	C1803	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1804	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1805	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1808	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1809	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1810	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C1811	F1J1E106A253	10uF 25V	1	UA3E-K, UA3PR-K, UA3PU-K
	C1812	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3PR-K, UA3PU-K
	C1814	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C2001	F1H1H104B047	0.1uF 50V	1	
	C2002	F1H1H104B047	0.1uF 50V	1	
	C2003	F1H1C104A178	0.1uF 16V	1	
	C2004	F1H1H104B047	0.1uF 50V	1	
	C2005	F1H1H102B047	1000pF 50V	1	
	C2006	F1H1H104B047	0.1uF 50V	1	
	C2007	F1H0J1060006	10uF 6.3V	1	
	C2008	F1H1H104B047	0.1uF 50V	1	
	C2009	F1H1C224A178	0.22uF 16V	1	
	C2010	F1H1A335A083	3.3uF 10V	1	
	C2011	F2A1C101A243	100uF 16V	1	
	C2012	F1H1H104B047	0.1uF 50V	1	
	C2013	F1G1H681A571	680pF 50V	1	
	C2014	F2A0J331A183	330uF 6.3V	1	
	C2015	F1H1H104B047	0.1uF 50V	1	
	C2016	F1H1C104A178	0.1uF 16V	1	
	C2017	F1H0J1060006	10uF 6.3V	1	
	C2018	F1H0J1060006	10uF 6.3V	1	
	C2019	F1H0J1060006	10uF 6.3V	1	
	C2020	F1H0J1060006	10uF 6.3V	1	
	C2021	F1H0J1060006	10uF 6.3V	1	
	C2022	F1H0J1060006	10uF 6.3V	1	
	C2023	F1H1H120B052	12pF 50V	1	
	C2024	F1H1H120B052	12pF 50V	1	
	C2025	F1H1H220B052	22pF 50V	1	
	C2026	F1H1H240A831	24pF 50V	1	
	C2027	F1H1H101B052	100pF 50V	1	
	C2028	F1H1H102B047	1000pF 50V	1	
	C2029	F1H1H102B047	1000pF 50V	1	
	C2030	F1H1H102B047	1000pF 50V	1	
	C2031	F1H1H102B047	1000pF 50V	1	
	C2032	F1H1H102B047	1000pF 50V	1	
	C2033	F1H1H102B047	1000pF 50V	1	
	C2035	F1H1H104B047	0.1uF 50V	1	
	C2036	F1H1H104B047	0.1uF 50V	1	
	C2037	F1H1C224A178	0.22uF 16V	1	
	C2038	F1H1H223B047	0.022uF 50V	1	
	C2041	F1H1H102B047	1000pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2043	F1H1A225A051	2.2uF 10V	1	UA3E-K, UA3PR-K, UA3PU-K
	C2044	F1H1H104B047	0.1uF 50V	1	
	C2046	F1H0J1060006	10uF 6.3V	1	
	C2047	F1H0J1060006	10uF 6.3V	1	
	C2048	F1H0J4750004	4.7uF 6.3V	1	
	C2049	F1G1H101A834	100pF 50V	1	UA3E-K, UA3GN-K
	C2050	F1G1H101A834	100pF 50V	1	UA3E-K, UA3GN-K
	C2051	F1H1H104B047	0.1uF 50V	1	
	C2052	F1H1H104B047	0.1uF 50V	1	
	C2053	F1H1H104B047	0.1uF 50V	1	
	C2054	F1H1C104A178	0.1uF 16V	1	
	C2055	F1H1H101B052	100pF 50V	1	
	C2056	F1H1H101B052	100pF 50V	1	
	C2057	F1H1H101B052	100pF 50V	1	
	C2058	F1H1H101B052	100pF 50V	1	
	C2059	F1H1H104B047	0.1uF 50V	1	
	C4202	F1H1H103B047	0.01uF 50V	1	
	C4204	F1H1H103B047	0.01uF 50V	1	
	C4206	F1J1A106A043	10uF 10V	1	
	C4209	F1H0J1060006	10uF 6.3V	1	
	C4210	F1H1H104B047	0.1uF 50V	1	
	C4211	F1H0J1060006	10uF 6.3V	1	
	C4212	F1H0J1060006	10uF 6.3V	1	
	C4213	F1H1H101B052	100pF 50V	1	
	C4214	F1H1H101B052	100pF 50V	1	
	C4215	F1H1H104B047	0.1uF 50V	1	
	C4217	F1H1H104B047	0.1uF 50V	1	
	C4218	F1H1H104B047	0.1uF 50V	1	
	C4401	F1H1H104B047	0.1uF 50V	1	
	C5001	F1J1A106A043	10uF 10V	1	
	C5002	F1H1H103B047	0.01uF 50V	1	
	C5003	F1J1A106A043	10uF 10V	1	
	C5004	F1H1H104B047	0.1uF 50V	1	
	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	UA3E-K, UA3GN-K
	C5024	F1H1H101B052	100pF 50V	1	UA3E-K, UA3GN-K
	C5025	F1H1H101B052	100pF 50V	1	
	C5026	F1H1H101B052	100pF 50V	1	
	C5027	F1H1H101B052	100pF 50V	1	
	C5028	F1H1H101B052	100pF 50V	1	UA3E-K, UA3GN-K
	C5029	F1H1H101B052	100pF 50V	1	UA3E-K, UA3GN-K
	C5030	F1H1H101B052	100pF 50V	1	UA3E-K, UA3GN-K
	C5031	F1H1H101B052	100pF 50V	1	UA3E-K, UA3GN-K
	C5032	F1H1H102B047	1000pF 50V	1	
	C5033	F1H1H102B047	1000pF 50V	1	
	C6005	F1J1E106A253	10uF 25V	1	
	C6006	F0A1H225A095	2.2uF 50V	1	UA3E-K, UA3GN-K
	C6006	F0A1H474A095	0.47uF 50V	1	UA3PR-K, UA3PU-K
	C6007	F0A1H225A095	2.2uF 50V	1	UA3E-K, UA3GN-K

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6007	F0A1H474A095	0.47uF 50V	1	UA3PR-K, UA3PU-K
	C6008	F0A1H225A095	2.2uF 50V	1	UA3E-K, UA3GN-K
	C6008	F0A1H474A095	0.47uF 50V	1	UA3PR-K, UA3PU-K
	C6009	F0A1H225A095	2.2uF 50V	1	UA3E-K, UA3GN-K
	C6009	F0A1H474A095	0.47uF 50V	1	UA3PR-K, UA3PU-K
	C6011	F1G1H102A830	1000pF 50V	1	UA3E-K, UA3GN-K
	C6012	F1G1H102A830	1000pF 50V	1	UA3E-K, UA3GN-K
	C6013	F1G1H102A830	1000pF 50V	1	UA3E-K, UA3GN-K
	C6014	F1G1H102A830	1000pF 50V	1	UA3E-K, UA3GN-K
	C6018	F1H1H104B047	0.1uF 50V	1	
	C6019	F1H1H104B047	0.1uF 50V	1	
	C6020	F1H1E105A153	1uF 25V	1	
	C6021	F1H1H104B047	0.1uF 50V	1	
	C6022	F1H1E105A153	1uF 25V	1	
	C6023	F1H1E105A153	1uF 25V	1	
	C6024	F1H1H333A954	0.033uF 50V	1	
	C6025	F1H1H333A954	0.033uF 50V	1	
	C6027	F1H1H104B047	0.1uF 50V	1	
	C6028	F1H1H333A954	0.033uF 50V	1	
	C6030	F1H1H333A954	0.033uF 50V	1	
	C6031	F1J2A1050002	1uF 100V	1	
	C6032	F1H2A1040001	0.1uF 100V	1	
	C6034	F2A1H1020067	1000uF 50V	1	
	C6035	F2A1H1020067	1000uF 50V	1	
	C6036	F1H2A1040001	0.1uF 100V	1	
	C6039	F1J2A1050002	1uF 100V	1	
	C6061	F1H1H103B047	0.01uF 50V	1	
	C6062	F1H1H103B047	0.01uF 50V	1	
	C6063	F1H1H103B047	0.01uF 50V	1	
	C6064	F1H1H103B047	0.01uF 50V	1	
	C6068	F1J1A106A043	10uF 10V	1	
	C6086	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	C6099	F1H1H681B052	680pF 50V	1	
	C6100	F1H1H681B052	680pF 50V	1	
	C6108	F1H1A105A113	1uF 10V	1	
	C6109	F1H1A105A113	1uF 10V	1	
	C6111	F1H1H101B052	100pF 50V	1	
	C6112	F1H1H101B052	100pF 50V	1	
	C6500	F2A0J470A013	47uF 6.3V	1	
	C6521	F1H1C474A178	0.47uF 16V	1	
	C6523	F1H1H103B047	0.01uF 50V	1	
	C6524	F1H0J1060003	10uF 6.3V	1	
	C6525	F1H1H103B047	0.01uF 50V	1	
	C6526	F1H0J1060003	10uF 6.3V	1	
	C6527	F1H0J1050012	1uF 6.3V	1	
	C6528	F1H0J1060003	10uF 6.3V	1	
	C6529	F1H0J1050012	1uF 6.3V	1	
	C6530	F2A0J470A013	47uF 6.3V	1	
	C6550	F1G1H102A830	1000pF 50V	1	
	C6551	F1G1H102A830	1000pF 50V	1	
	C6552	F1G1H470A834	47pF 50V	1	
	C6553	F1G1H470A834	47pF 50V	1	
	C6560	F1H1H120B052	12pF 50V	1	
	C6561	F1H1H120B052	12pF 50V	1	
	C6591	F1H0J1050012	1uF 6.3V	1	
	C6592	F1H1H104B047	0.1uF 50V	1	
	C7000	F1H1H104B047	0.1uF 50V	1	
	C7001	F1H1A105A113	1uF 10V	1	
	C7002	F1H1A105A113	1uF 10V	1	
	C7003	F1H1H104B047	0.1uF 50V	1	
	C9001	F1H1H102B047	1000pF 50V	1	
	C9003	F1J1C1060006	10uF 16V	1	
	C9004	F1H1H104B047	0.1uF 50V	1	
	C9005	F1J1C1060006	10uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CONNECTORS		
	CN1002	K1YA09000001	9P WIRE HOLDER	1	
	CN3501	K1KA04A00629	4P CONNECTOR	1	
	P1503	K1KA02AA0193	2P CONNECTOR	1	
	P1801	K1MN17A00040	17P CONNECTOR	1	
	P1802	K1KA05AA0051	5P CONNECTOR	1	UA3E-K, UA3PR-K, UA3PU-K
	P5001	K1MN10AA0076	10P CONNECTOR	1	
	P5002	K1MY24A00001	24P CONNECTOR	1	
	P9001	K1KA04AA0193	4P CONNECTOR	1	
			DIODES		
	D1000	B0JCPG000032	DIODE	1	
	D1001	B0EAKM000117	DIODE	1	
	D1002	DB2J20800L	DIODE	1	
	D1003	DZ2J075M0L	DIODE	1	
	D1004	B0ADDJ000032	DIODE	1	
	D1005	DZ2J056M0L	DIODE	1	
	D1013	DZ2J150M0L	DIODE	1	
	D1014	DA2J10100L	DIODE	1	
	D4401	DB2J20800L	DIODE	1	
	D4402	DB2J20800L	DIODE	1	
	D5001	B0JCAE000001	DIODE	1	
			JACKS		
	JK51	K4ZZ01000276	JK	1	
	JK3003	B3RAB0000118	JK	1	
	JK6002	K2HA2YYA0009	JK	1	
			INDUCTORS		
	L51	G1CR18JA0020	INDUCTOR	1	
	L1001	GLC330MA0426	INDUCTOR	1	
	L1103	GLC100MA0226	INDUCTOR	1	
	L6000	GOA100H00032	INDUCTOR	1	
	L6001	GOA100H00032	INDUCTOR	1	
	L6002	GOA100H00032	INDUCTOR	1	
	L6003	GOA100H00032	INDUCTOR	1	
	L7000	J0JYC0000305	INDUCTOR	1	
	LB51	J0JYC0000656	INDUCTOR	1	
	LB52	D0GBR00J0004	0 1/10W	1	
	LB53	J0JYC0000656	INDUCTOR	1	
	LB1103	D0GBR00J0004	0 1/10W	1	
	LB1509	J0JYC0000656	INDUCTOR	1	
	LB1801	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1801	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1802	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1802	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1803	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1803	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1804	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1804	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1805	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1805	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1806	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1806	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1807	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1807	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB1808	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1808	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1809	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1809	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1810	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1810	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1811	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1811	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1812	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB1812	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB1818	G1C100KA0101	INDUCTOR	1	UA3E-K, UA3PR-K, UA3PU-K
	LB2001	J0JYC0000656	INDUCTOR	1	
	LB2002	J0JYC0000656	INDUCTOR	1	
	LB2003	J0JYC0000656	INDUCTOR	1	
	LB2004	J0JYC0000656	INDUCTOR	1	
	LB2005	D0GB100JA065	10 1/10W	1	
	LB2006	J0JYC0000656	INDUCTOR	1	
	LB2007	J0JYC0000656	INDUCTOR	1	
	LB2010	J0JCC0000286	INDUCTOR	1	
	LB2011	J0JCC0000286	INDUCTOR	1	
	LB2012	J0JCC0000287	INDUCTOR	1	
	LB2013	J0JCC0000287	INDUCTOR	1	
	LB2014	J0JYC0000656	INDUCTOR	1	
	LB2016	J0JCC0000317	INDUCTOR	1	
	LB2017	J0JCC0000317	INDUCTOR	1	
	LB2029	J0JYC0000656	INDUCTOR	1	
	LB2035	J0JCC0000286	INDUCTOR	1	
	LB2040	J0JCC0000286	INDUCTOR	1	
	LB2044	J0JCC0000286	INDUCTOR	1	
	LB2047	J0JCC0000286	INDUCTOR	1	
	LB2048	J0JCC0000286	INDUCTOR	1	
	LB2049	J0JCC0000286	INDUCTOR	1	
	LB2050	J0JCC0000286	INDUCTOR	1	
	LB4201	J0JYC0000656	INDUCTOR	1	
	LB4202	J0JYC0000656	INDUCTOR	1	
	LB4203	J0JYC0000656	INDUCTOR	1	
	LB4401	J0JYC0000656	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	UA3E-K, UA3GN-K
	LB5006	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5007	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5007	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5008	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5008	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5009	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5009	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5010	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5010	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5011	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5011	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB5012	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5012	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5013	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5013	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5014	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5014	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5015	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3GN-K
	LB5015	D0GBR00J0004	0 1/10W	1	UA3PR-K, UA3PU-K
	LB5016	J0JBC0000010	INDUCTOR	1	
	LB6101	J0JYC0000656	INDUCTOR	1	
	LB6102	J0JYC0000656	INDUCTOR	1	
	LB6500	J0JYC0000656	INDUCTOR	1	
	LB6501	J0JYC0000656	INDUCTOR	1	
	LB6502	J0JYC0000656	INDUCTOR	1	
	LB9001	J0JGC0000070	INDUCTOR	1	
			TRANSISTORS		
	Q1000	B1AAJC0000019	TRANSISTOR	1	
	Q1008	B1ADCE0000012	TRANSISTOR	1	
	Q1011	MTM761230LBF	TRANSISTOR	1	
	Q2001	B1ABCF000176	TRANSISTOR	1	
	Q5001	B1ADCF0000001	TRANSISTOR	1	
	Q6001	B1ABCF000176	TRANSISTOR	1	
	Q6002	DSA200100L	TRANSISTOR	1	
	Q6007	B1ABCF000176	TRANSISTOR	1	
	Q6300	B1ABCF000176	TRANSISTOR	1	
	QR1003	B1GBCFJJ0041	TRANSISTOR	1	
	QR1004	B1GBCFJJ0041	TRANSISTOR	1	
	QR1008	B1GBCFJJ0041	TRANSISTOR	1	
	QR8503	B1GBCFGG0030	TRANSISTOR	1	
			RESISTORS		
	R52	D0GB221JA065	220 1/10W	1	
	R59	D0GB222JA065	2.2K 1/10W	1	
	R1007	D0GB473JA065	47K 1/10W	1	
	R1008	D0GB101JA065	100 1/10W	1	
	R1015	D0GB101JA065	100 1/10W	1	
	R1026	D0GB104JA065	100K 1/10W	1	
	R1027	D1BB1002A074	10K 1/10W	1	
	R1028	D1BB9101A074	9.1K 1/10W	1	
	R1030	D0GB103JA065	10K 1/10W	1	
	R1031	D0GB224JA065	220K 1/10W	1	
	R1038	D0GF431JA048	430 1/4W	1	
	R1039	D0GF431JA048	430 1/4W	1	
	R1049	D0GB104JA065	100K 1/10W	1	
	R1050	D0GB104JA065	100K 1/10W	1	
	R1053	D0GB2R2JA065	2.2 1/10W	1	
	R1054	D0GB2R2JA065	2.2 1/10W	1	
	R1055	D0GB2R2JA065	2.2 1/10W	1	
	R1056	D0GB271JA065	270 1/10W	1	
	R1060	J0JYC0000656	INDUCTOR	1	
	R1062	D0GB103JA065	10K 1/10W	1	
	R1065	D0GB3R3JA065	3.3 1/10W	1	
	R1067	J0JYC0000656	INDUCTOR	1	
	R1110	D1BB3742A074	37.4K 1/10W	1	
	R1111	D1BB9101A074	9.1K 1/10W	1	
	R1113	D1BB4642A074	46.4K 1/10W	1	
	R1115	D0GB222JA065	2.2K 1/10W	1	
	R1801	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3PR-K, UA3PU-K
	R1802	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3PR-K, UA3PU-K

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1812	J0JYC0000656	INDUCTOR	1	UA3E-K, UA3PR-K, UA3PU-K
	R2001	D0GB471JA065	470 1/10W	1	
	R2002	D0GB101JA065	100 1/10W	1	
	R2003	D0GA101JA023	100 1/16W	1	
	R2004	D0GA103JA023	10K 1/16W	1	
	R2005	D0GB221JA065	220 1/10W	1	
	R2006	D0GB221JA065	220 1/10W	1	
	R2007	D0GB221JA065	220 1/10W	1	
	R2008	D0GB221JA065	220 1/10W	1	
	R2009	D0GB221JA065	220 1/10W	1	
	R2013	D0GB221JA065	220 1/10W	1	
	R2015	D0GB681JA065	680 1/10W	1	
	R2016	D0GB105JA065	1M 1/10W	1	
	R2017	D0GB224JA065	220K 1/10W	1	
	R2018	D0GB106JA065	10M 1/10W	1	
	R2019	D0GA103JA023	10K 1/16W	1	
	R2021	D0GA103JA023	10K 1/16W	1	
	R2022	D0GB203JA065	20K 1/10W	1	UA3E-K
	R2022	D0GB103JA065	10K 1/10W	1	UA3GN-K
	R2023	D0GB222JA065	2.2K 1/10W	1	
	R2024	D0GB222JA065	2.2K 1/10W	1	
	R2027	D0GA103JA023	10K 1/16W	1	
	R2028	D0GA103JA023	10K 1/16W	1	
	R2029	D0GA101JA023	100 1/16W	1	
	R2030	D0GA101JA023	100 1/16W	1	
	R2031	D0GA101JA023	100 1/16W	1	
	R2032	D0GA101JA023	100 1/16W	1	
	R2033	D0GB101JA065	100 1/10W	1	
	R2034	D0GB101JA065	100 1/10W	1	
	R2035	D0GB222JA065	2.2K 1/10W	1	
	R2040	D0GA101JA023	100 1/16W	1	
	R2041	D0GA334JA023	330K 1/16W	1	
	R2042	D0GA103JA023	10K 1/16W	1	
	R2043	D0GB222JA065	2.2K 1/10W	1	
	R2044	D0GB222JA065	2.2K 1/10W	1	
	R2047	D1BB6802A074	68K 1/10W	1	
	R2048	D1BB1502A074	15K 1/10W	1	
	R2054	D1BB1502A074	15K 1/10W	1	
	R2055	D1BB6802A074	68K 1/10W	1	
	R2056	D0GB103JA065	10K 1/10W	1	
	R2058	D0GB184JA065	180K 1/10W	1	
	R2059	D0GB103JA065	10K 1/10W	1	
	R2061	D0GA103JA023	10K 1/16W	1	
	R2062	D0GB103JA065	10K 1/10W	1	
	R2063	D0GB103JA065	10K 1/10W	1	
	R2076	D0GB102JA065	1K 1/10W	1	
	R2077	D0GB334JA065	330K 1/10W	1	
	R2078	D0GB101JA065	100 1/10W	1	
	R2079	D0GB101JA065	100 1/10W	1	
	R2080	D0GB472JA065	4.7K 1/10W	1	
	R2081	D0GB472JA065	4.7K 1/10W	1	
	R2082	D0GB104JA065	100K 1/10W	1	
	R2083	D0GB104JA065	100K 1/10W	1	
	R2084	D0GB104JA065	100K 1/10W	1	
	R2312	D0GBR00J0004	0 1/10W	1	
	R2314	D0GBR00J0004	0 1/10W	1	UA3PU-K
	R2315	D0GBR00J0004	0 1/10W	1	UA3PR-K
	R2316	D0GBR00J0004	0 1/10W	1	UA3E-K
	R2317	D0GBR00J0004	0 1/10W	1	UA3GN-K
	R4201	D0GBR00J0004	0 1/10W	1	
	R4204	D0GB101JA065	100 1/10W	1	
	R4205	D0GB101JA065	100 1/10W	1	
	R4206	D0GB101JA065	100 1/10W	1	
	R4207	D0GB101JA065	100 1/10W	1	
	R4208	D0GB101JA065	100 1/10W	1	
	R4209	D0GBR00J0004	0 1/10W	1	
	R4210	D0GB101JA065	100 1/10W	1	
	R4211	D0GBR00J0004	0 1/10W	1	
	R4212	D0GBR00J0004	0 1/10W	1	
	R4404	D0GBR00J0004	0 1/10W	1	
	R4405	D0GBR00J0004	0 1/10W	1	
	R4409	D0GB472JA065	4.7K 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R4410	D0GB472JA065	4.7K 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	
	R6007	D0GB100JA065	10 1/10W	1	
	R6011	D0GB100JA065	10 1/10W	1	
	R6012	D0GDR00J0004	0 1/8W	1	
	R6013	D0GDR00J0004	0 1/8W	1	
	R6014	D0GDR00J0004	0 1/8W	1	
	R6015	D0GDR00J0004	0 1/8W	1	
	R6046	D0GB223JA065	22K 1/10W	1	
	R6050	D0GB100JA065	10 1/10W	1	
	R6054	D0GB563JA065	56K 1/10W	1	
	R6055	D0GB473JA065	47K 1/10W	1	
	R6056	D0GB472JA065	4.7K 1/10W	1	
	R6057	D0GB224JA065	220K 1/10W	1	
	R6058	D0GB3R3JA065	3.3 1/10W	1	
	R6060	D0GB3R3JA065	3.3 1/10W	1	
	R6061	D0GB3R3JA065	3.3 1/10W	1	
	R6062	D0GB3R3JA065	3.3 1/10W	1	
	R6066	D0GB104JA065	100K 1/10W	1	
	R6067	D0GB104JA065	100K 1/10W	1	
	R6068	D0GB104JA065	100K 1/10W	1	
	R6069	D0GB104JA065	100K 1/10W	1	
	R6070	D0GB682JA065	6.8K 1/10W	1	
	R6072	D0GB103JA065	10K 1/10W	1	
	R6075	D0GBR00J0004	0 1/10W	1	UA3E-K, UA3GN-K
	R6076	D0GBR00J0004	0 1/10W	1	UA3E-K, UA3GN-K
	R6099	F1H1H102B047	1000pF 50V	1	UA3E-K, UA3GN-K
	R6104	D0GB470JA065	47 1/10W	1	
	R6105	D0GB470JA065	47 1/10W	1	
	R6106	D0GB470JA065	47 1/10W	1	
	R6132	D0GB224JA065	220K 1/10W	1	
	R6133	D0GB472JA065	4.7K 1/10W	1	
	R6134	D0GB472JA065	4.7K 1/10W	1	
	R6146	D0GB103JA065	10K 1/10W	1	
	R6147	D0GB103JA065	10K 1/10W	1	
	R6207	D0GB472JA065	4.7K 1/10W	1	
	R6208	D0GB472JA065	4.7K 1/10W	1	
	R6501	D0GB152JA065	1.5K 1/10W	1	
	R6502	D0GB105JA065	1M 1/10W	1	
	R6504	D0GB103JA065	10K 1/10W	1	
	R6511	D0GB101JA065	100 1/10W	1	
	R6512	D0GB101JA065	100 1/10W	1	
	R6513	D0GB101JA065	100 1/10W	1	
	R6514	D0GB101JA065	100 1/10W	1	
	R6520	D0GB470JA065	47 1/10W	1	
	R6521	D0GB470JA065	47 1/10W	1	
	R6550	D0GB221JA065	220 1/10W	1	
	R6551	D0GB221JA065	220 1/10W	1	
	R6559	D0GB101JA065	100 1/10W	1	
	R7001	D0GB222JA065	2.2K 1/10W	1	
	R8517	D0GBR00J0004	0 1/10W	1	
	R8541	D0GB151JA065	150 1/10W	1	
	R8546	D0GB151JA065	150 1/10W	1	
	R9010	D0GB474JA065	470K 1/10W	1	
	R9105	D0GAR00J0005	0 1/16W	1	UA3PR-K UA3PU-K

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R9106	D0GAR00J0005	0 1/16W	1	UA3PR-K, UA3PU-K
			RESISTOR NETWORK		
	RX2001	J0JBD0000050	INDUCTOR	1	
	RX2002	D1H81014A042	RESISTOR NETWORK	1	
	RX2003	D1H81014A042	RESISTOR NETWORK	1	
	RX2004	D1H81014A042	RESISTOR NETWORK	1	
	RX2005	D1H81014A042	RESISTOR NETWORK	1	
	RX2006	D1H81014A042	RESISTOR NETWORK	1	
	RX2007	D1H81014A042	RESISTOR NETWORK	1	
	RX2008	D1H81014A042	RESISTOR NETWORK	1	
	RX5001	D1H81034A042	RESISTOR NETWORK	1	
			FILTER		
	T9001	J0ZZB0000182	FILTER	1	UA3E-K, UA3GN-K
			ESD SUPPRESSOR		
	VA51	EZAEG2A50AX	ESD SUPPRESSOR	1	
			OSCILLATORS		
	X2001	H0J169500045	OSCILLATOR	1	
	X2002	H0A327200191	OSCILLATOR	1	
	X6500	H0J245500110	OSCILLATOR	1	
			PRINTED CIRCUIT BOARDS		
	PCB2	TNPA6522AC	PANEL P.C.B	1	(RTL) UA3E-K
	PCB2	TNPA6522AD	PANEL P.C.B	1	(RTL) UA3GN-K
	PCB2	TNPA6522AB	PANEL P.C.B	1	(RTL) UA3PR-K
	PCB2	TNPA6522	PANEL P.C.B	1	(RTL) UA3PU-K
			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	
	C6816	F1H1H104B047	0.1uF 50V	1	
	C6817	F2A0J101A208	100uF 6.3V	1	
	C6820	F1H1A105A113	1uF 10V	1	
	C6821	F2A0J101A208	100uF 6.3V	1	
	C6830	F1H1H101B052	100pF 50V	1	
	C6831	F1H1H102B047	1000pF 50V	1	
	C6832	F1J1A106A043	10uF 10V	1	
			CONNECTORS		
	CN6001	K1MN17A00040	17P CONNECTOR	1	
			DIODES		
	D6201	B3AEA0000172	DIODE	1	
	D6202	B3AEA0000172	DIODE	1	
	D6203	B3AEA0000172	DIODE	1	
	D6204	B3AEA0000172	DIODE	1	
	D6801	B0ADDH000009	DIODE	1	
	D6802	B0ADDH000009	DIODE	1	
	D6806	DZ2J056M0L	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			FL DISPLAY		
	DP6801	A2BB00000186	FL DISPLAY	1	
			REMOTE SENSOR		
	IR6500	B3RAD0000226	REMOTE SENSOR	1	
			INDUCTORS		
	LB6802	J0JHC0000118	INDUCTOR	1	
	LB6803	J0JHC0000118	INDUCTOR	1	
	LB6805	J0JHC0000118	INDUCTOR	1	
			TRANSISTORS		
	Q6801	B1HFCDE00002	TRANSISTOR	1	
	Q6816	B1HFCDE00002	TRANSISTOR	1	
	QR6201	B1GBCFGN0018	TRANSISTOR	1	
	QR6202	B1GBCFGN0018	TRANSISTOR	1	
			RESISTORS		
	R6001	D0GBR00J0004	0 1/10W	1	
	R6002	D0GBR00J0004	0 1/10W	1	
	R6003	D0GBR00J0004	0 1/10W	1	
	R6004	D0GBR00J0004	0 1/10W	1	
	R6005	D0GBR00J0004	0 1/10W	1	
	R6006	D0GBR00J0004	0 1/10W	1	
	R6007	D0GBR00J0004	0 1/10W	1	
	R6008	D0GBR00J0004	0 1/10W	1	
	R6010	D0GBR00J0004	0 1/10W	1	
	R6011	D0GBR00J0004	0 1/10W	1	
	R6012	D0GBR00J0004	0 1/10W	1	
	R6201	D0GB221JA065	220 1/10W	1	
	R6202	D0GB221JA065	220 1/10W	1	
	R6203	D0GB221JA065	220 1/10W	1	
	R6204	D0GB221JA065	220 1/10W	1	
	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	
	R6822	D0GD104JA052	100K 1/8W	1	
	R6830	D0GB272JA065	2.7K 1/10W	1	
	R6832	D0GB392JA065	3.9K 1/10W	1	
	R6834	D0GB272JA065	2.7K 1/10W	1	
	R6836	D0GB272JA065	2.7K 1/10W	1	
	R6838	D0GB392JA065	3.9K 1/10W	1	
	R6840	D0GB392JA065	3.9K 1/10W	1	
	R6842	D0GB472JA065	4.7K 1/10W	1	
	R6844	D0GB472JA065	4.7K 1/10W	1	
	R6848	D0GB103JA065	10K 1/10W	1	
	R6849	D0GFR00J0005	0 1/4W	1	
	W1	D0GFR00J0005	0 1/4W	1	
	W2	D0GDR00J0004	0 1/8W	1	
	W3	D0GFR00J0005	0 1/4W	1	
	W4	D0GFR00J0005	0 1/4W	1	
	W5	D0GFR00J0005	0 1/4W	1	
	W6	D0GFR00J0005	0 1/4W	1	
	W7	D0GFR00J0005	0 1/4W	1	
	W8	D0GFR00J0005	0 1/4W	1	
	W9	D0GBR00J0004	0 1/10W	1	
	W10	D0GDR00J0004	0 1/8W	1	
	W11	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	W12	D0GBR00J0004	0 1/10W	1	
	W13	D0GFR00J0005	0 1/4W	1	
	W14	D0GFR00J0005	0 1/4W	1	
	W15	D0GFR00J0005	0 1/4W	1	
	W16	D0GDR00J0004	0 1/8W	1	
	W17	D0GDR00J0004	0 1/8W	1	
	W18	D0GFR00J0005	0 1/4W	1	
	W19	D0GFR00J0005	0 1/4W	1	
	W20	D0GFR00J0005	0 1/4W	1	
	W21	D0GFR00J0005	0 1/4W	1	
	W22	D0GFR00J0005	0 1/4W	1	
			SWITCHES		
	S6200	EVQ21405RJ	SW	1	
	S6201	EVQ21405RJ	SW	1	
	S6202	EVQ21405RJ	SW	1	
	S6203	EVQ21405RJ	SW	1	
	S6210	EVQ21405RJ	SW	1	
	S6211	EVQ21405RJ	SW	1	
	S6212	EVQ21405RJ	SW	1	
	S6213	EVQ21405RJ	SW	1	
	S6220	EVQ21405RJ	SW	1	
	S6221	EVQ21405RJ	SW	1	
	S6222	EVQ21405RJ	SW	1	
	S6223	EVQ21405RJ	SW	1	
			PRINTED CIRCUIT BOARDS		
	PCB3	TNPA6523AC	MIC P.C.B	1	(RTL) UA3E-K
	PCB3	TNPA6523AB	MIC P.C.B	1	(RTL) UA3PR-K
	PCB3	TNPA6523	MIC P.C.B	1	(RTL) UA3PU-K
			INTEGRATED CIRCUITS		
	IC1400	C1AB00003130	IC	1	(E.S.D)
	IC1401	C1AB00003130	IC	1	(E.S.D)
			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	F2A1H4R7A213	4.7uF 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	F2A1H4R7A213	4.7uF 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	F1H1H223B047	0.022uF 50V	1	
	C1445	F1H1H223B047	0.022uF 50V	1	
			CONNECTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	CN1401	K1KA05BA0061	5P CONNECTOR	1	
			JACKS		
	JK1401	K2HB107B0001	JK	1	
	JK1403	K2HB107B0001	JK	1	
			INDUCTORS		
	LB1400	J0JBC0000019	INDUCTOR	1	
	LB1401	D0GBR00J0004	0 1/10W	1	
	LB1404	J0JBC0000019	INDUCTOR	1	
			RESISTORS		
	R1400	D0GB681JA065	680 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	D0GB561JA065	560 1/10W	1	
	R1408	D0GB681JA065	680 1/10W	1	
	R1409	D0GBR00J0004	0 1/10W	1	
	R1410	D0GBR00J0004	0 1/10W	1	
	R1411	D0GB561JA065	560 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	
	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	
	R1429	F1H1H102B047	1000pF 50V	1	
	R1430	F1H1H102B047	1000pF 50V	1	
	R1432	F1H1H102B047	1000pF 50V	1	
	R1433	D0GBR00J0004	0 1/10W	1	
	R1435	D0GBR00J0004	0 1/10W	1	
	K1402	D0GBR00J0004	0 1/10W	1	
	W1401	D0GBR00J0004	0 1/10W	1	
	W1402	D0GDR00J0004	0 1/8W	1	
	W1404	D0GDR00J0004	0 1/8W	1	
	W1405	D0GFR00J0005	0 1/4W	1	
	W1406	D0GBR00J0004	0 1/10W	1	
	W1407	D0GDR00J0004	0 1/8W	1	
	W1408	D0GFR00J0005	0 1/4W	1	
	W1409	D0GFR00J0005	0 1/4W	1	
			TERMINALS		
	ZJ1400	K4CZ01000027	TERMINAL	1	
	ZJ1401	K4CZ01000027	TERMINAL	1	
	ZJ1403	K4CZ01000027	TERMINAL	1	
			PRINTED CIRCUIT BOARDS		
	PCB4	TNPA6524AC	USB P.C.B	1	(RTL) UA3E-K
	PCB4	TNPA6524AD	USB P.C.B	1	(RTL) UA3GN-K
	PCB4	TNPA6524AB	USB P.C.B	1	(RTL) UA3PR-K
	PCB4	TNPA6524	USB P.C.B	1	(RTL) UA3PU-K
			CAPACITORS		
	C6401	F1H1H104B047	0.1uF 50V	1	
			CONNECTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	CN6402	K1KA04BA0061	4P CONNECTOR	1	
			JACKS		
	JK6401	K1FY104A0034	JK	1	
			INDUCTORS		
	LB6401	J0JHC0000118	INDUCTOR	1	
			RESISTORS		
	R6402	D0GB474JA065	470K 1/10W	1	
	W6401	D0GDR00J0004	0 1/8W	1	
			PRINTED CIRCUIT BOARDS		
	PCB5	TNPA6525AC	LED P.C.B	1	(RTL) UA3E-K
	PCB5	TNPA6525AD	LED P.C.B	1	(RTL) UA3GN-K
	PCB5	TNPA6525AB	LED P.C.B	1	(RTL) UA3PR-K
	PCB5	TNPA6525	LED P.C.B	1	(RTL) UA3PU-K
			CONNECTORS		
	CN800	K1KA02BA0061	2P CONNECTOR	1	
			DIODES		
	D800	B3AEA0000172	DIODE	1	
	D801	B3AEA0000172	DIODE	1	
			RESISTORS		
	R800	D0GB331JA065	330 1/10W	1	
	R801	D0GB331JA065	330 1/10W	1	
			PRINTED CIRCUIT BOARDS		
	PCB6	REP4945B	CD INTERFACE P.C.B	1	(RTL)
			CONNECTORS		
	CN7001	K1MY05BA0565	5P CONNECTOR	1	
	CN7002	K1MN10B00016	10P CONNECTOR	1	
			SWITCHES		
	S7201	K0L1BA000158	SW	1	
			PRINTED CIRCUIT BOARDS		
⚠	PCB7	N0AE1GN00001	SMPS MODULE	1	UA3E-K, UA3GN-K
⚠	PCB7	N0AE1GN00003	SMPS MODULE	1	UA3PR-K, UA3PU-K

MMH1705