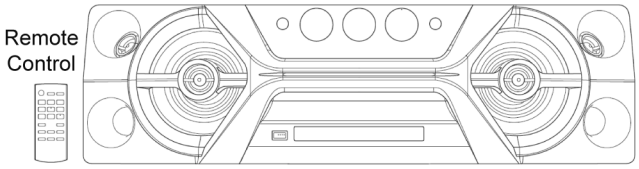
PSG1706001CE

# Service Manual

## CD Stereo System

## Model No. SC-UA4E

Product Color: (K)...Black Type




SC-UA4

**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.

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Panasonic®

# 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 ⚠ 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 1MΩ and 5.2MΩ.
   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 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF 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.

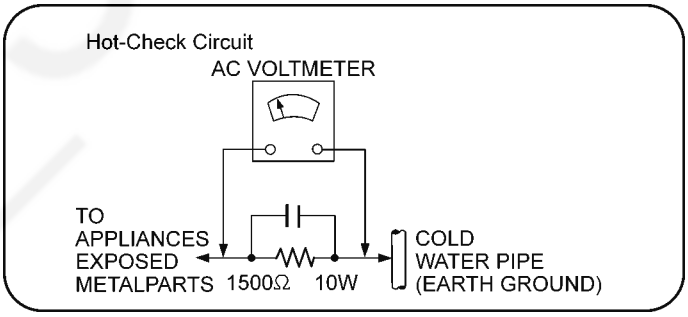
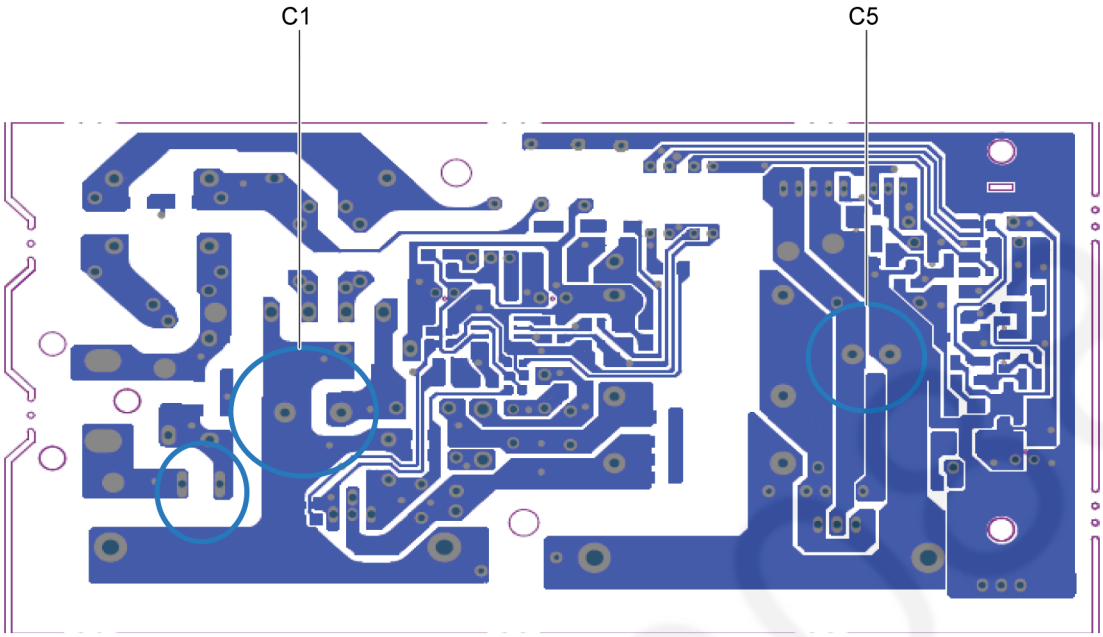



Figure 1-1

## 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.

## 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 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.

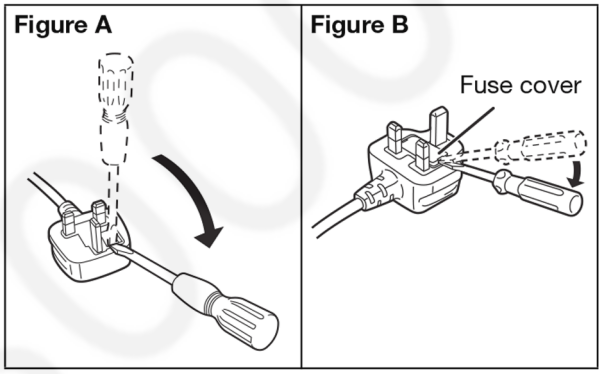
Check for the ASTA mark or the BSI mark on the body of the fuse.

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.

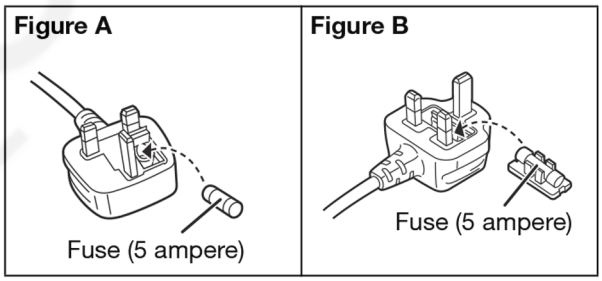



Figure 1-3

## 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 |
|---|---|---|---|---|
| ⚠ | 17 | TBMK4907 | NAMEPLATE | |
| ⚠ | 301 | TXQ0011 | TRAVERSE ASS'Y | (E.S.D) |
| ⚠ | A2 | K2CQ2YY00107 | AC CORD | |
| ⚠ | A2 | K2CT2YY00089 | AC CORD | |
| ⚠ | A3 | TQBJ2015 | OI (En/Sw/Da/Fi) | |
| ⚠ | A3 | TQBJ2016 | OI (Ge/Fr/It/Du) | |
| ⚠ | PCB7 | N0AE1GN00001 | SMPS MODULE | |

# 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 μW/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.

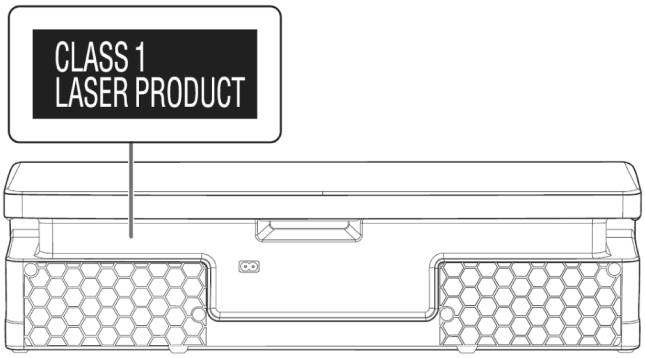



Figure 2-1

## 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.<br><br>(See right figure) | PbF |

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

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

**Recommended Lead Free Solder (Service Parts Route.)**

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

**Note**

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

## 2.4. Handling Precautions for Traverse Unit

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

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

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

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

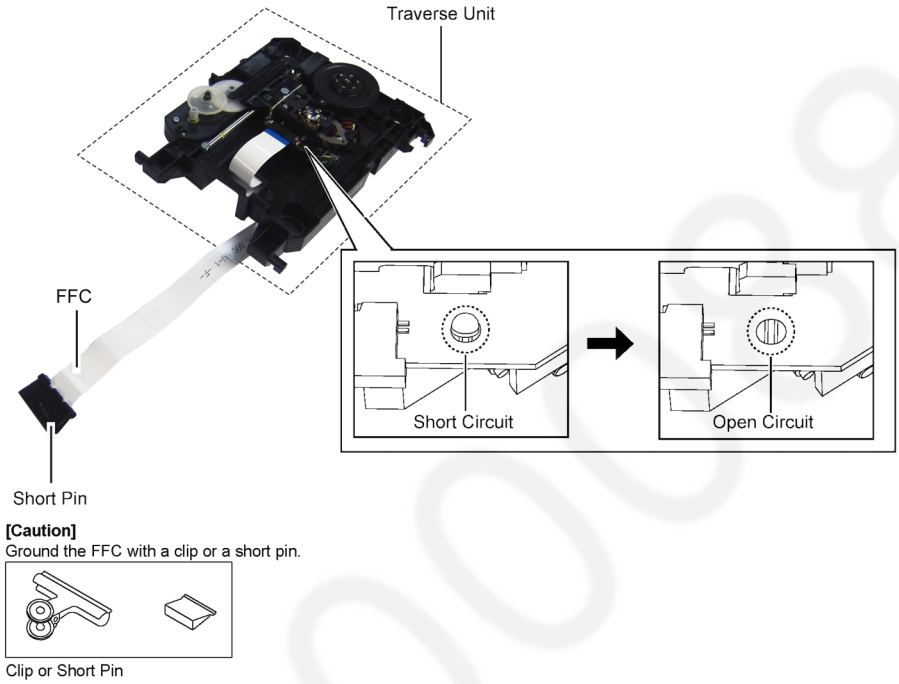



Figure 2-2

## 2.5. Grounding for electrostatic breakdown prevention

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

### 2.5.1. Worktable grounding

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

### 2.5.2. Human body grounding

- Use the anti-static wrist strap to discharge the static electricity form your body (Figure 2-3).

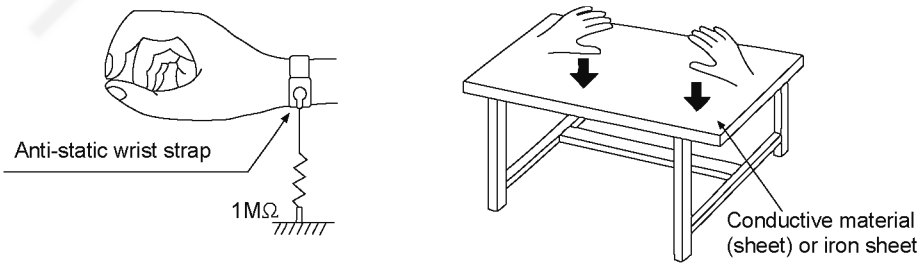



Figure 2-3

# 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 |

**■ Tuner section**

**Frequency modulation (FM)**

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

**■ DAB+ section**

| | |
|---|---|
| **DAB memories** | 20 stations |

**Frequency band (wavelength)**

| | |
|---|---|
| Band III (Europe) | 5A to 13F (174.928 MHz to 239.200 MHz) |

**Sensitivity *BER 4x10$^{-4}$**

| | |
|---|---|
| Min requirement | —98 dBm |

| | |
|---|---|
| **DAB external antenna** | Version 1 |
| Terminal | F - Connector (75 Ω) |

**■ 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 |

**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**

| | |
|---|---|
| Terminal | Mono, 6.3 mm jack (2 systems) |

**■ Bluetooth® section**

| | |
|---|---|
| **Version** | Bluetooth® Ver.2.1 + EDR |
| **Class** | Class 2 |
| **Supported profiles** | A2DP, AVRCP, SPP |
| **Operating frequency** | 2402 MHz to 2480 MHz |
| **Maximum power (dBm e.i.r.p.)** | 6 dBm |
| **Operating distance** | 10 m line of sight |

**■ General**

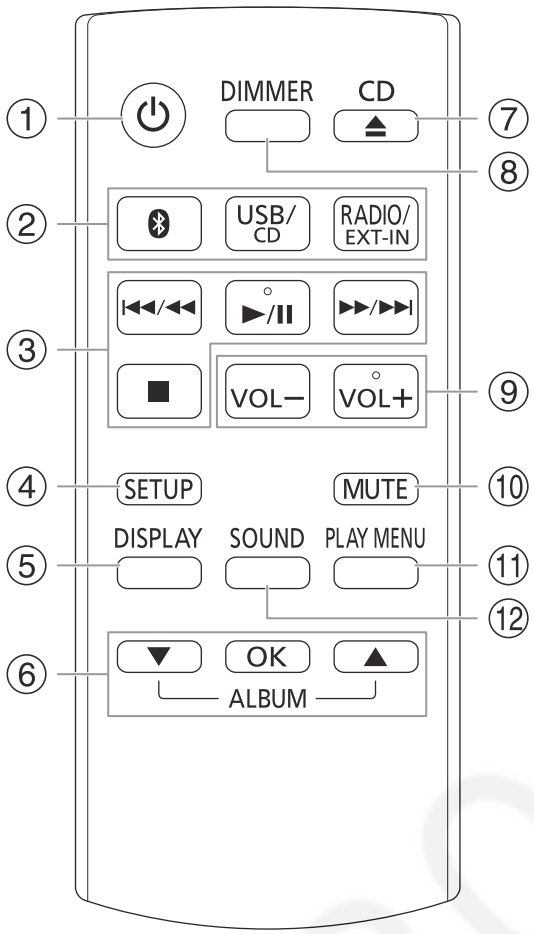
| | |
|---|---|
| **Power supply** | AC 220 to 240 V, 50 Hz |
| **Power consumption** | 51 W |
| **Dimensions (W x H x D)** | 650 mm x 196 mm x 274 mm |
| **Mass** | 6.1 kg |
| **Operating temperature range** | 0 °C to +40 °C |
| **Operating humidity range** | 35% to 80% RH (no condensation) |
| **Power Consumption in standby mode (approximate)** | 0.5 W |
| **Power Consumption in standby mode (approximate)** (With "BLUETOOTH STANDBY" set to "ON") | 0.6 W |

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




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 [ ᛒ ].

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

⑧ **Decrease the brightness of the display panel**
The illumination is also switched off.
To cancel, press the button again.

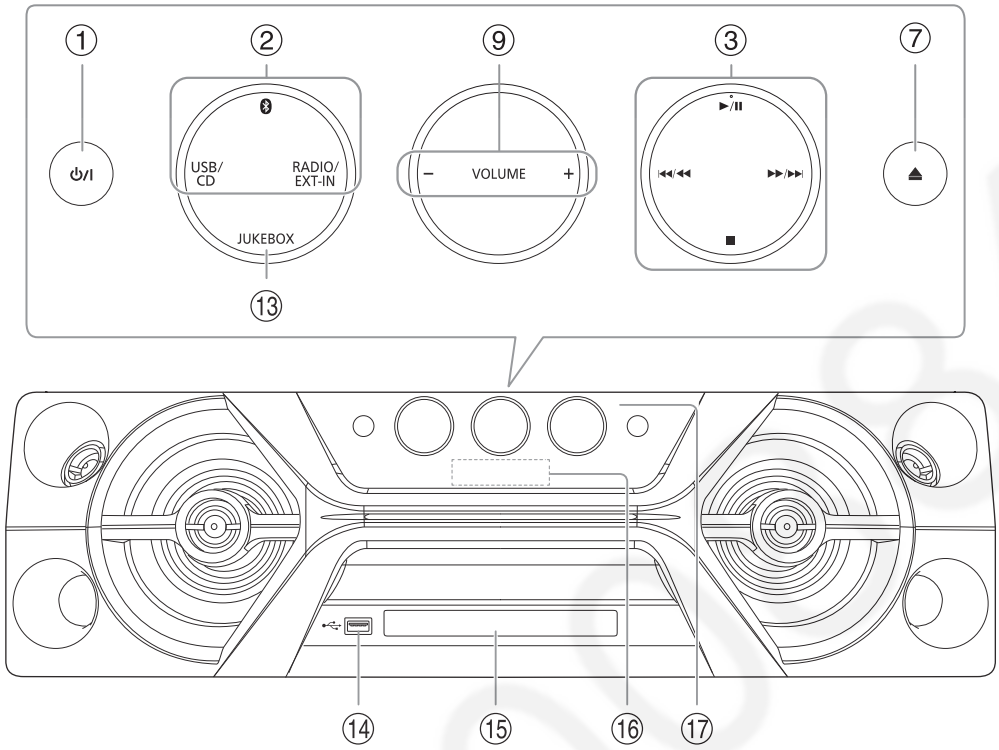
⑨ Adjust the volume level

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 [⏻/I]**
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

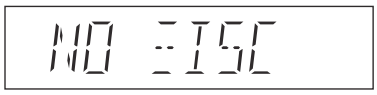
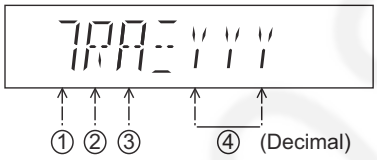
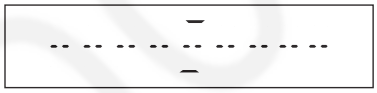
| Item | | FL Display | Key Operation |
|---|---|---|---|
| Mode Name | Description | | Front Key |
| Cold Start | To carry out cold-start or initialize to shipping mode | -- -- -- -- -- -- -- -- -- --<br>↓<br>AC OUT | In CD Mode:<br>1. Press & hold [■] button follow by [JUKEBOX] on main unit for more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

## 6.2. Sales Demonstration Lock Function

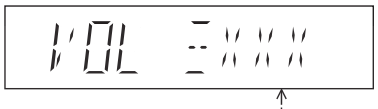
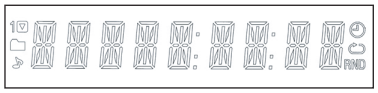
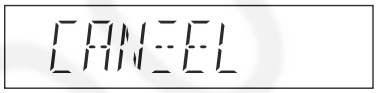
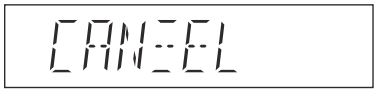
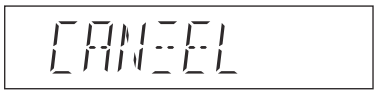
| Item | | FL Display | Key Operation |
|---|---|---|---|
| Mode Name | Description | | Front Key |
| Entering into Sales Demonstration Lock Mode | To enter into the sales demonstration lock mode. | -- -- LOCK -- -- | 1. Turn on the unit.<br>2. Select to any mode function.<br>3. Press and hold [▲OPEN/CLOSE] and [USB/CD] keys for 5 sec or more.<br><br>The display will show upon entering into this mode for 2 sec.<br><br>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.<br>2. Select to CD mode function.<br>3. Set volume to Vol 19.<br>4. Press and hold [▲OPEN/CLOSE] and [USB/CD] keys for 5 sec or more.<br><br>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:<br>1. Press [■] button on main unit follow by [4] and [7] on remote control.<br>2. To exit, press [SLEEP] button on remote control or, press [POWER,⏻/I] button on Main Unit |
| EEPROM checksum check | Displaying of<br>1. Year Develop.<br>2. Model Type.<br>3. ROM Type.<br>4. Firmware Version. | (Display 1)<br>  <br>① ② ③ ④ (Decimal)<br>Version No. (001 ~ 999) →specific for each firmware | In CD mode:<br>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:<br>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. |  <br>Press [7]: VOL50<br>Press [8]: VOL35<br>Press [9]: VOL0<br>Volume | In Doctor Mode:<br>1. Press [7], [8], [9] button on the remote control.<br>2. To cancel this mode, press [0] button on the remote control. |
| FL Display Check | To check the FL segment display.<br>All segments will light up while all LED blink at 0.5s intervals. |  | In Doctor mode:<br>1. Press [1] button on the remote control.<br>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.<br><br>In this mode, ensure the CD is in the main unit. |  <br>The counter will increment by one.<br>When reach 99999999 will change to 00000000<br>Cancellation Display<br>  | In Doctor Mode:<br>1. Press [10]→[1]→[2] button on the remote control.<br><br>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.<br><br>In this mode, ensure the CD is in the main unit. |  <br>The counter will increment by one.<br>When reach 99999999 will change to 00000000<br>Cancellation Display<br>  | In Doctor Mode:<br>1. Press [10]→[1]→[5] button on the remote control.<br><br>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.<br><br>In this mode, the tray will open & close automatically. |  <br>The counter will increment by one.<br>When reach 99999999 will change to 00000000<br>Cancellation Display<br>  | In Doctor Mode:<br>1. Press [10]→[2]→[1] button on the remote control.<br><br>2. To cancel this mode, press [0] button on the remote control. |

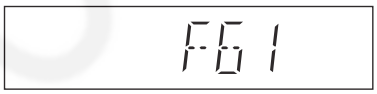
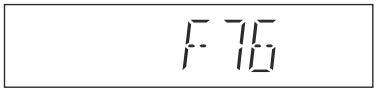
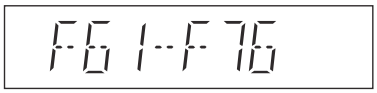
## 6.4. Self-Diagnostic Mode

| 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).<br>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:<br>  | Step 1: In self diagnostic mode, Press [■] on main unit.<br>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.<br>To exit, press [⏻/I] on main unit or remote control. |
| DAB Firmware version | Displaying the version number | DAB VER<br>"DAB-SCB-FS4444-0001-0034_ V6.0.23.EX64861-8"<br>(scrolling), (example display) | Step 1: In self diagnostic mode, Press [SOUND] on remote control.<br>To exit, press [⏻/I] on main unit or remote control. |

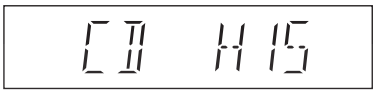
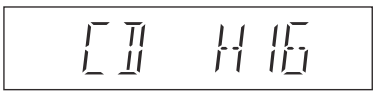
## 6.5. Self-Diagnostic Error Code Table

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.<br>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.<br>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.<br>Both DCDET (NG). |  | Press [■] on main unit for next error. | DAMP and power supply abnormal. |

## 6.5.2. CD Mechanism Error Code Table

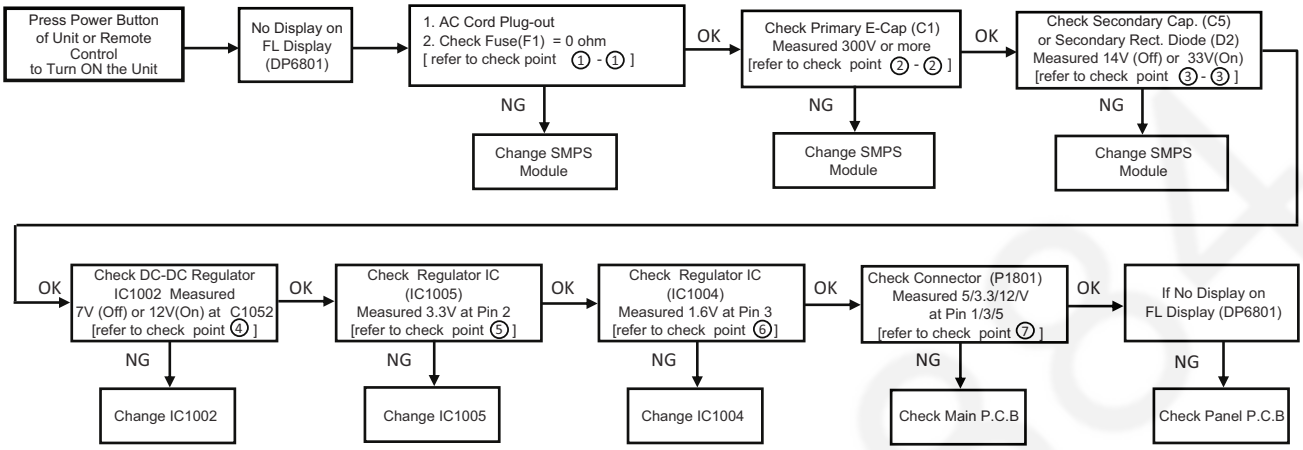
| Item | | FL Display | Key Operation | Solution (PCB exchange repair) |
|---|---|---|---|---|
| Mode Name | Description | | Front Key | |
| Error Code<br>CD H15 | Diagnosis Contents:<br>CD Open Abnormal.<br><br>During operation<br>POS_SW_R On fail to be detected within 4 sec.<br>Error No. shall be clear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

## 6.5.3. Bluetooth Error Code Table

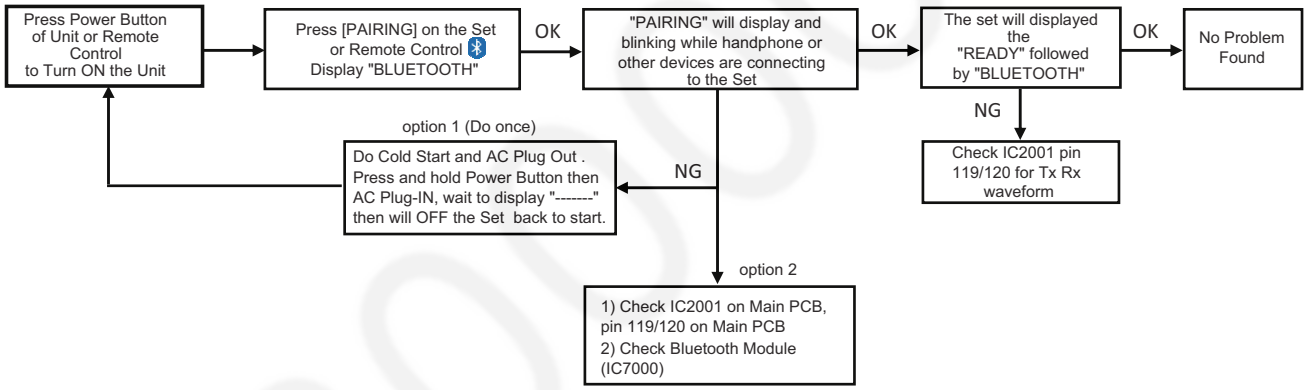
| Item | | FL Display | Key Operation | Solution (PCB exchange repair) |
|---|---|---|---|---|
| Mode Name | Description | | Front Key | |
| Error Code<br>F703 | Diagnosis Contents:<br>Bluetooth Communication.<br><br>Communication between Bluetooth module and micro-p abnormal. |  | Press [■] on main unit for next error. | Check following:<br>1. Bluetooth P.C.B.<br>2. SOC IC on Main P.C.B. |
| Error Code F77 | Diagnosis Contents:<br>Bluetooth Address Error<br><br>If there is no valid Bluetooth address stored in the EEPROM IC. |  | Press [■] on main unit for next error. | Check following:<br>1. EEPROM IC (IC2002) on Main P.C.B. |

# 7 Troubleshooting Guide

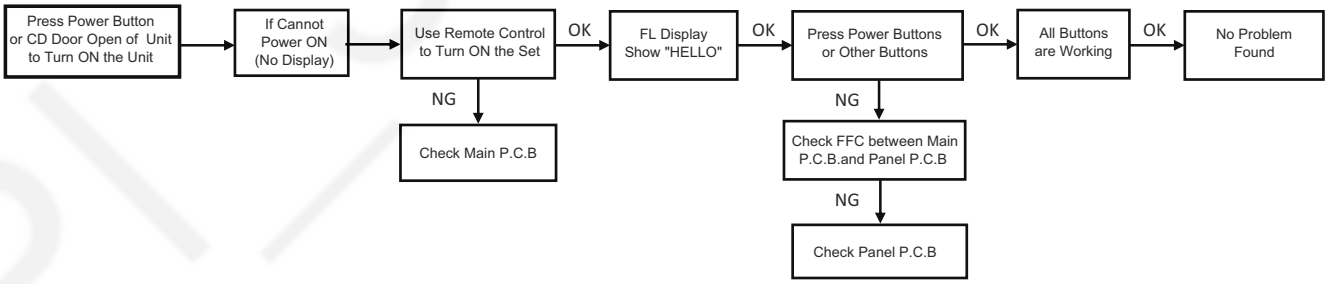
## 7.1. No Power or No Display



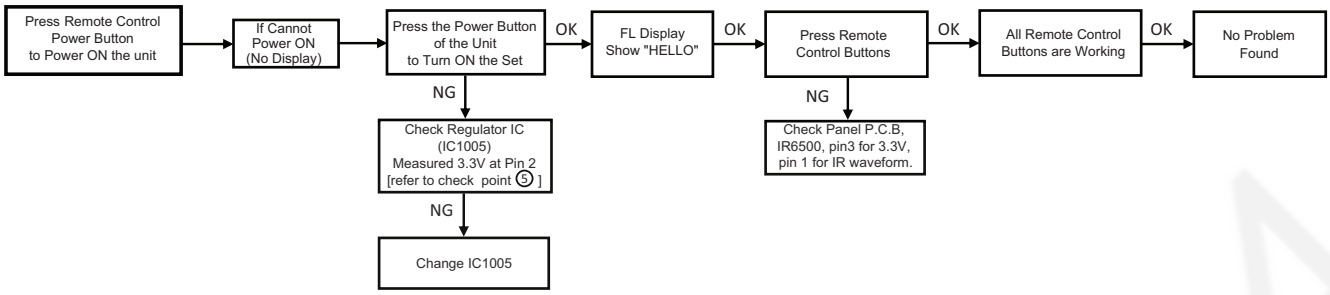

## 7.2. Bluetooth® Pairing Failure



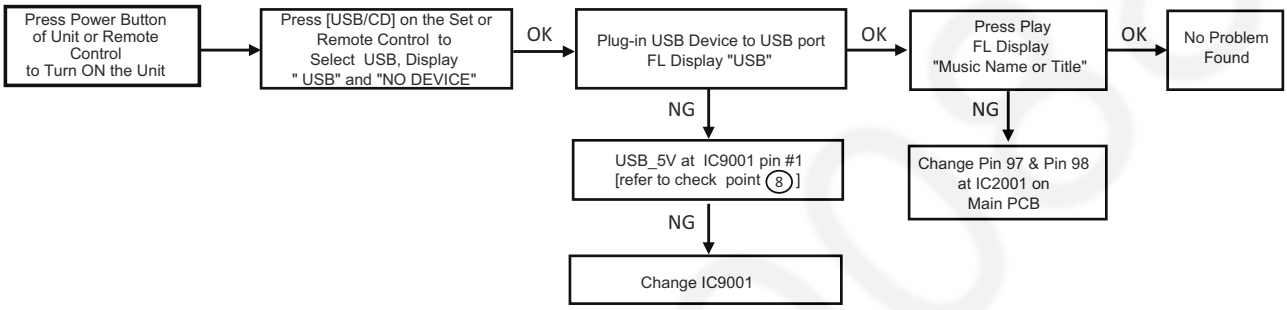

## 7.3. No Key Function



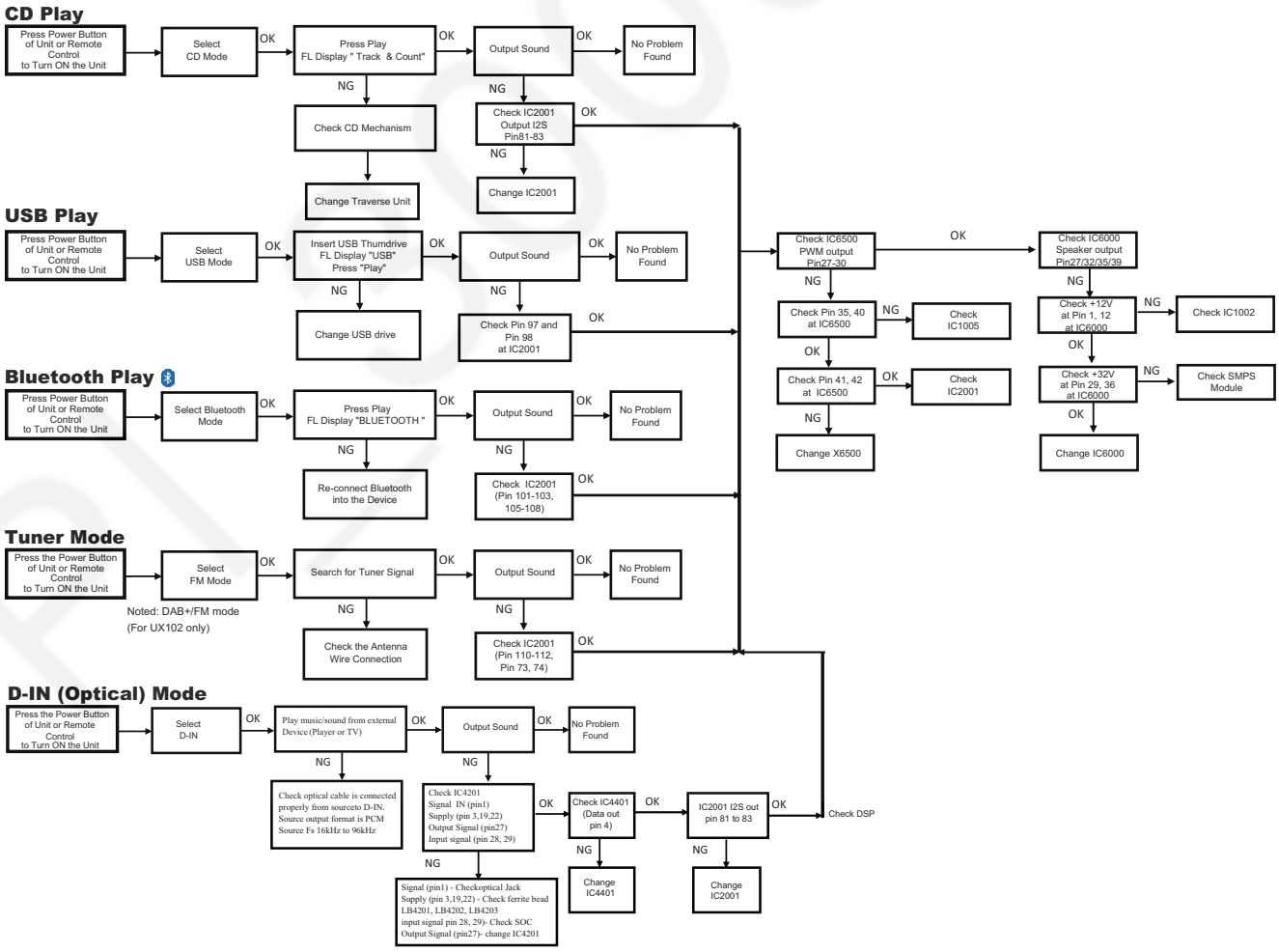
## 7.4. No Remote Control Function




## 7.5. USB Device Cannot Detect

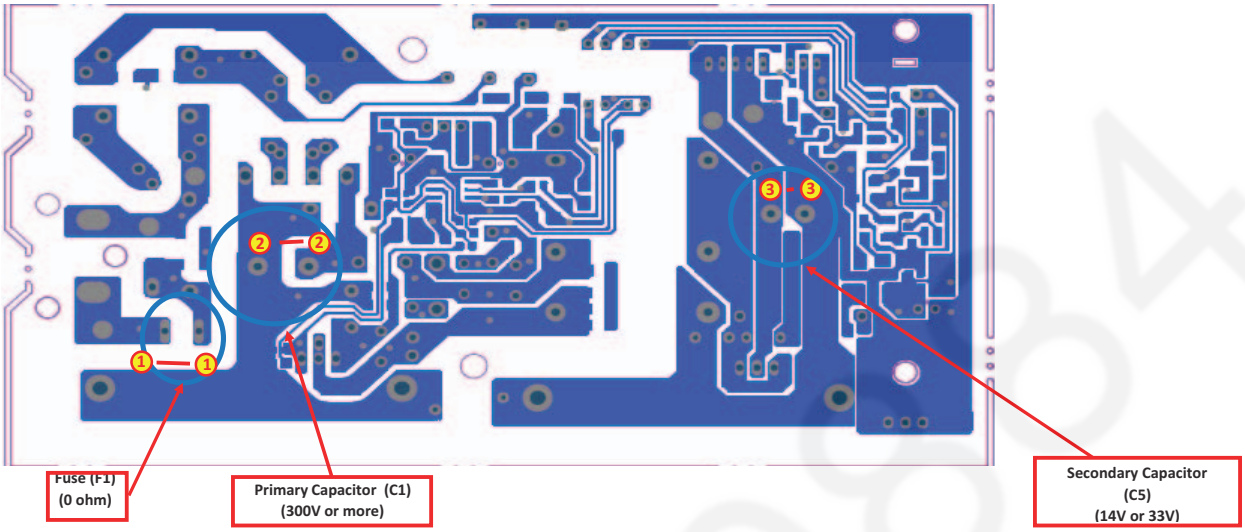



## 7.6. No Output Sound

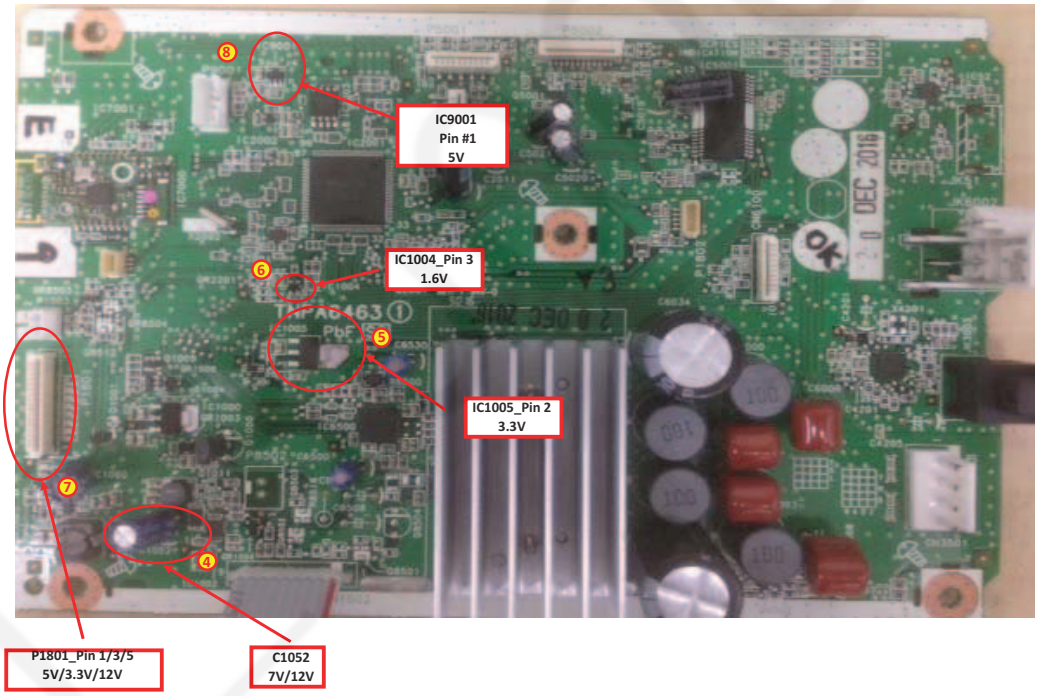


## 7.7. Check Point

### 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.
- Disassembly of DAB P.C.B.
- Disassembly of Main P.C.B.
- Disassembly of SMPS Module
- Disassembly of CD Mechanism Unit
- Disassembly of CD Interface P.C.B.

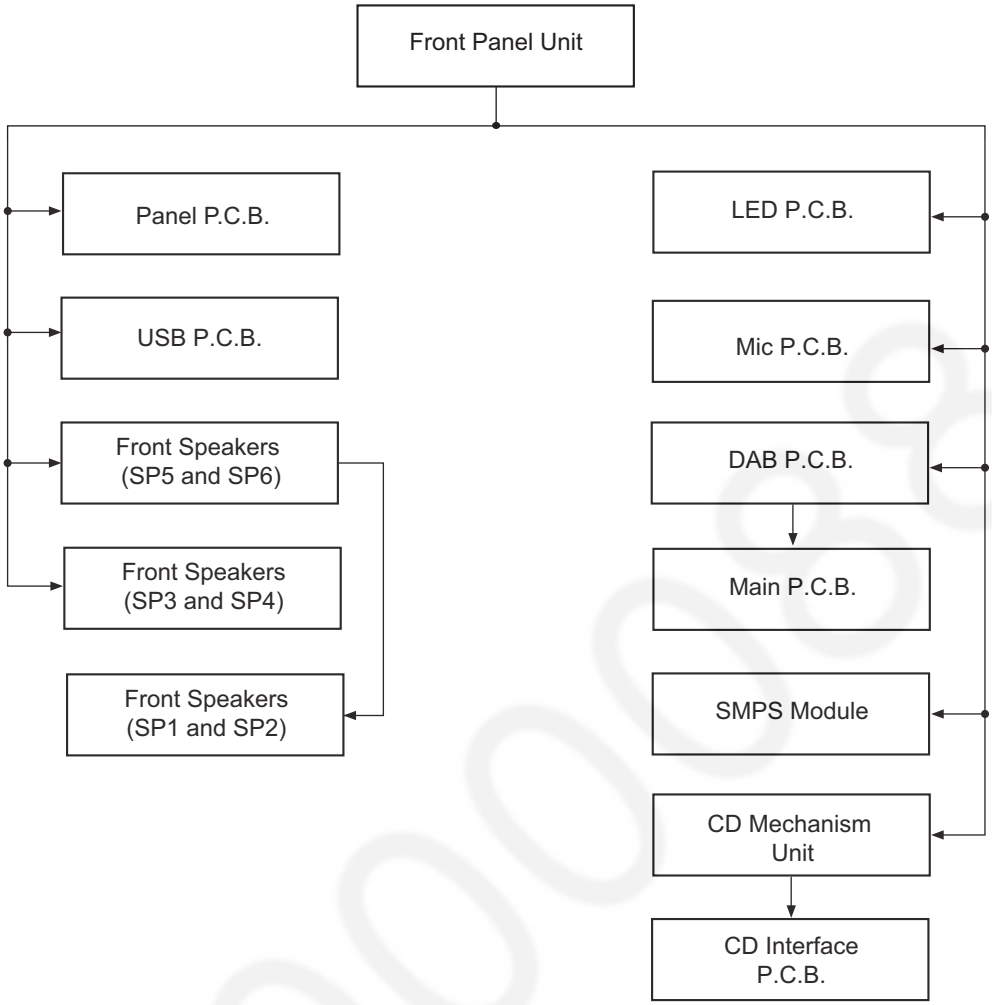
## 8.1. Types of Screws

**CAUTION NOTE:**
Please use original screw and at correct locations.

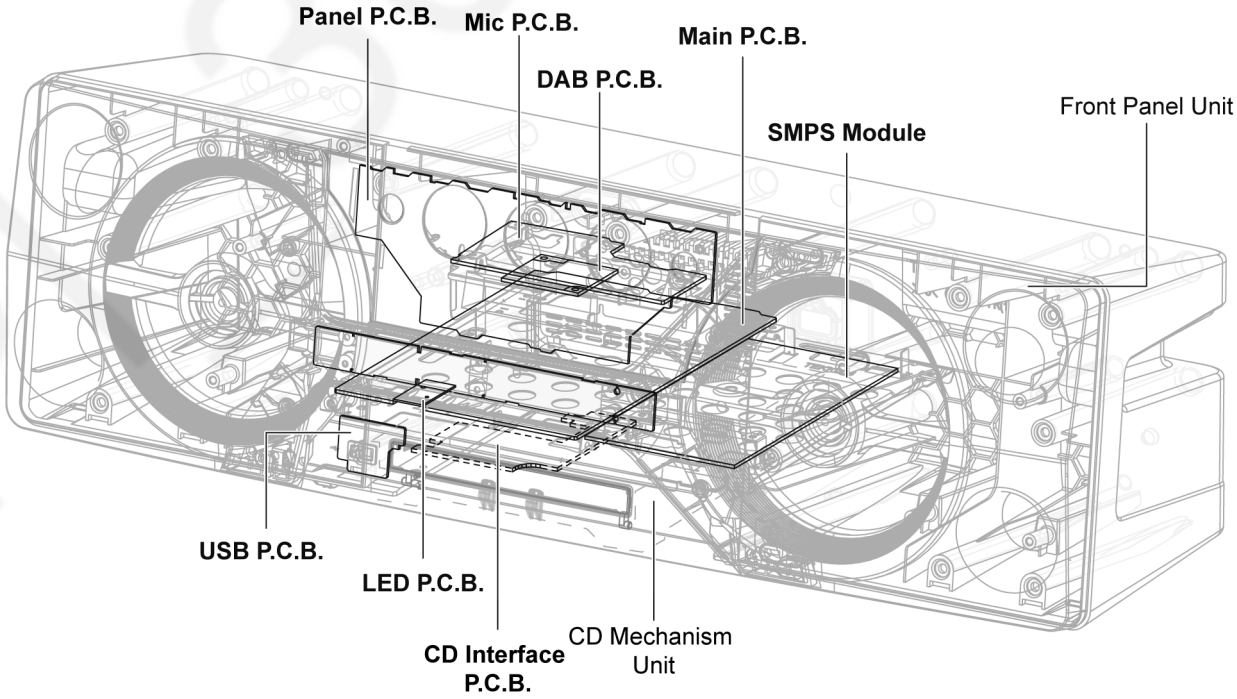
Below shown is part no. of different screw types used:

- a :XTB4+12GFJ
- b :XTB3+10JFJK
- c :XTB4+12GFJK
- d :RHD30111-31
- e :RHD26046
- f :XTB4+16GFJK
- g :RHD26056
- h :VHD1224-1A
- i :RHDX031008
- j :XTN2+6GFJ
- k :RHD26043-1

## 8.2. Disassembly Flow Chart

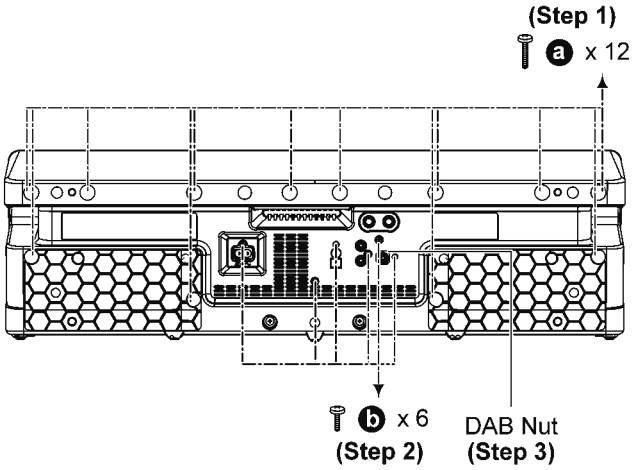



## 8.3. Main Components and P.C.B. Locations

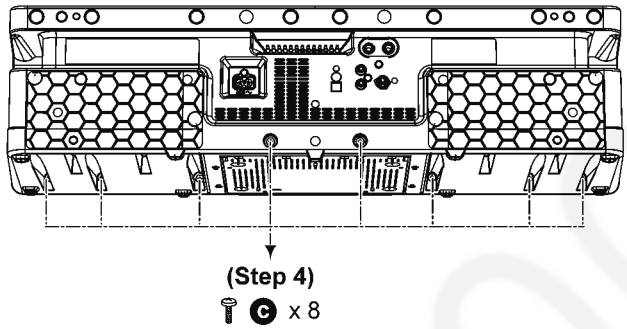


## 8.4. Disassembly of Front Panel Unit

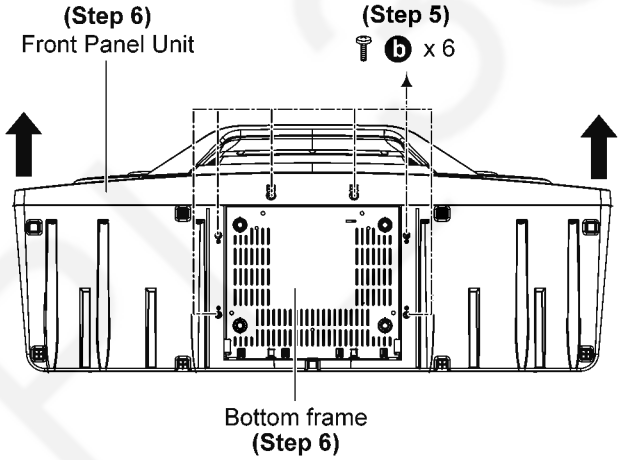
**Step 1** Remove 12 screws.
**Step 2** Remove 6 screws.
**Step 3** Remove DAB Nut.



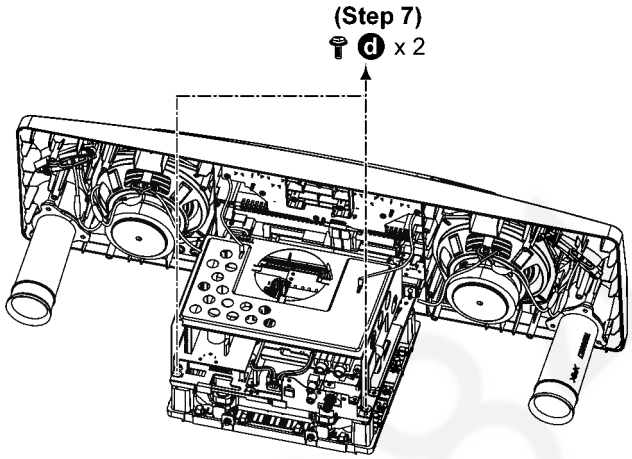

**Step 4** Remove 8 screws.



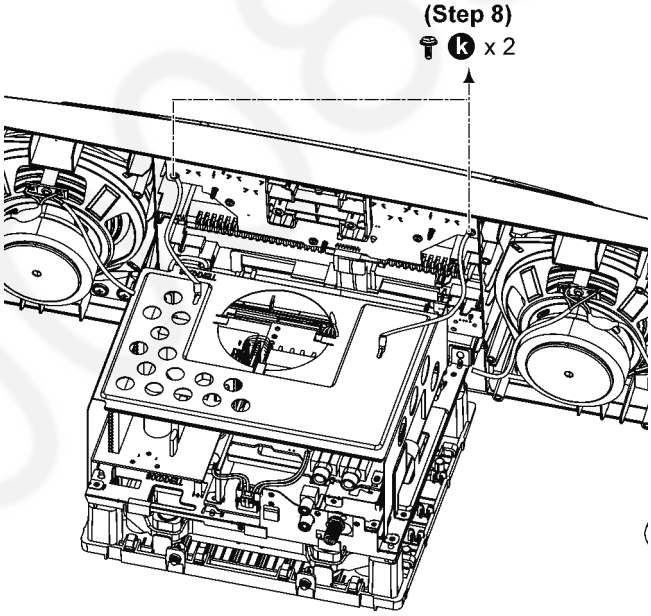

**Step 5** Remove 6 screws.
**Step 6** Remove Front Panel Unit and Bottom frame.



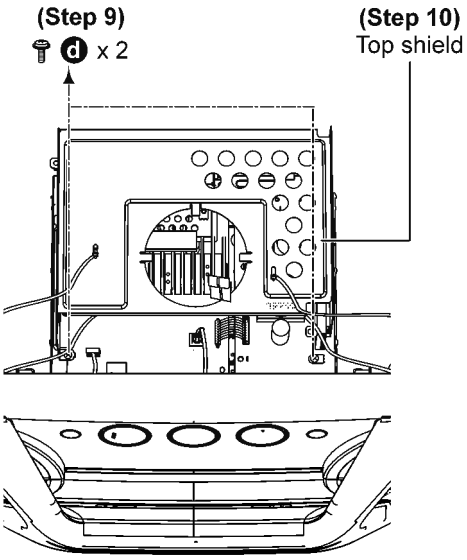

**Step 7** Remove 2 screws.



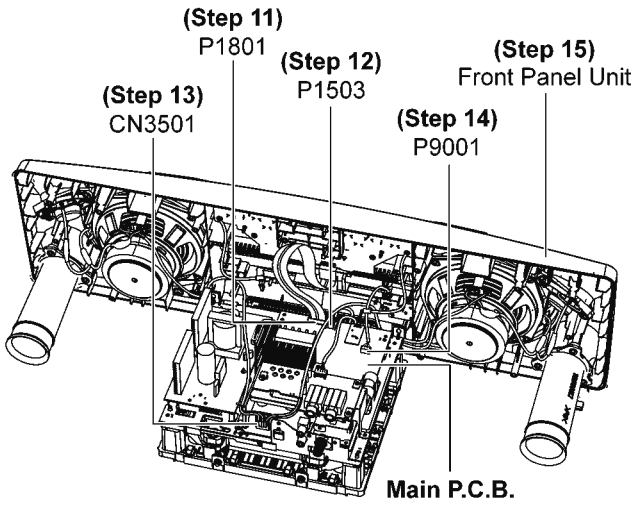

**Step 8** Remove 2 screws.




**Step 9** Remove 2 screws.
**Step 10** Remove Top shield.



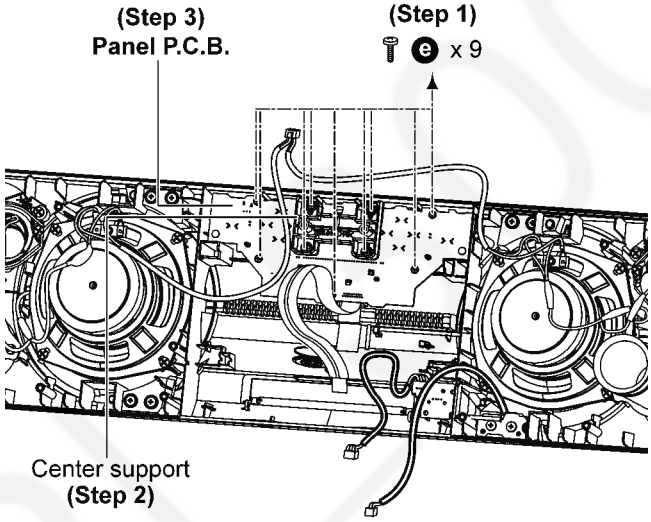
**Step 11** Detach 17P FFC at connector (P1801) on Main P.C.B..
**Step 12** Detach 2P Wire at connector (P1503) on Main P.C.B..
**Step 13** Detach 4P Wire at connector (CN3501) on Main P.C.B..
**Step 14** Detach 4P Wire at connector (P9001) on Main P.C.B..
**Step 15** Remove Front Panel Unit.




## 8.5. Disassembly of Panel P.C.B.

• **Refer to "Disassembly of Front Panel Unit".**

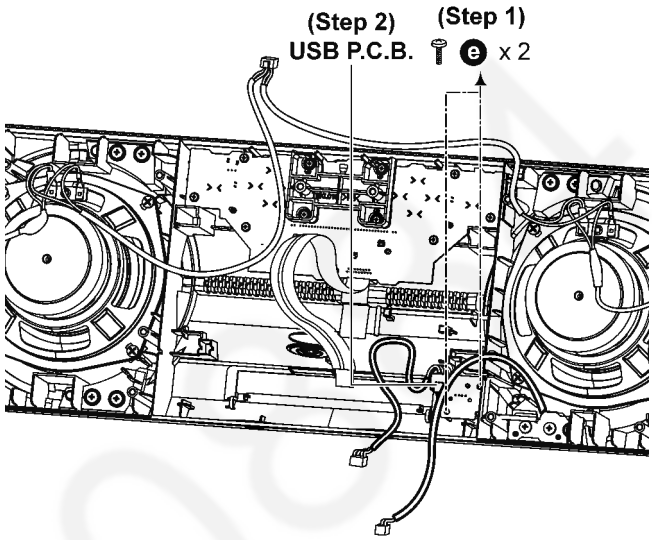
**Step 1** Remove 9 screws.
**Step 2** Remove Center support.
**Step 3** Remove Panel P.C.B..




## 8.6. Disassembly of USB P.C.B.

• **Refer to "Disassembly of Front Panel Unit".**

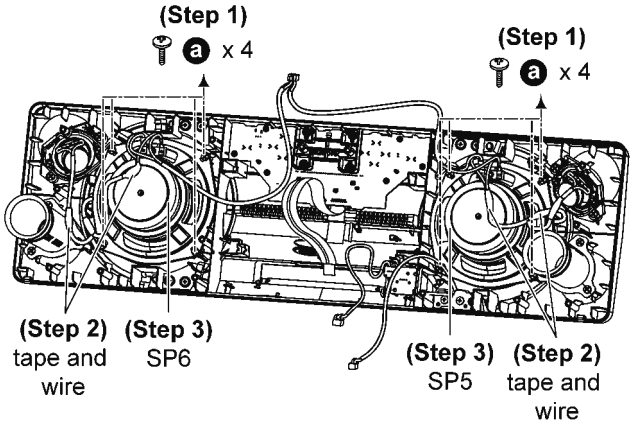
**Step 1** Remove 2 screws.
**Step 2** Remove USB P.C.B..




## 8.7. Disassembly of Front Speakers (SP5 and SP6)

• **Refer to "Disassembly of Front Panel Unit".**

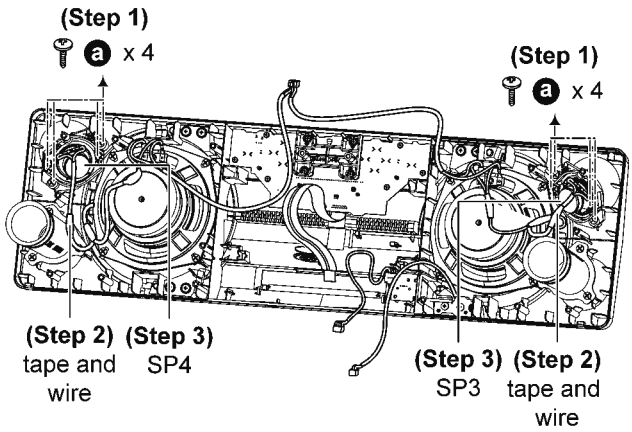
**Step 1** Remove 8 screws.
**Step 2** Remove tape and wire.
**Step 3** Remove SP5 and SP6.



## 8.8. Disassembly of Front Speakers (SP3 and SP4)

- **Refer to "Disassembly of Front Panel Unit".**

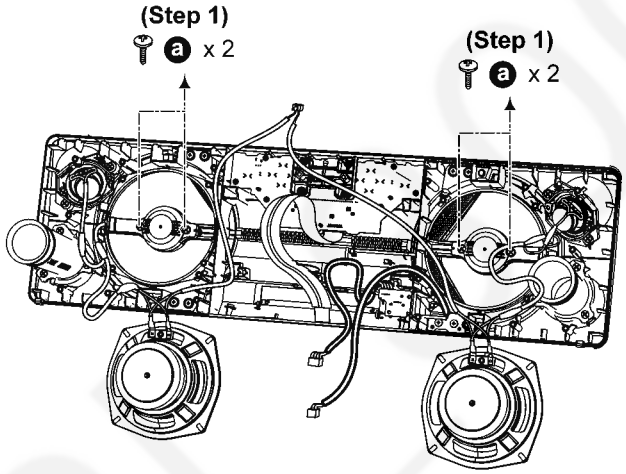
**Step 1** Remove 8 screws.
**Step 2** Remove tape and wire.
**Step 3** Remove SP3 and SP4.



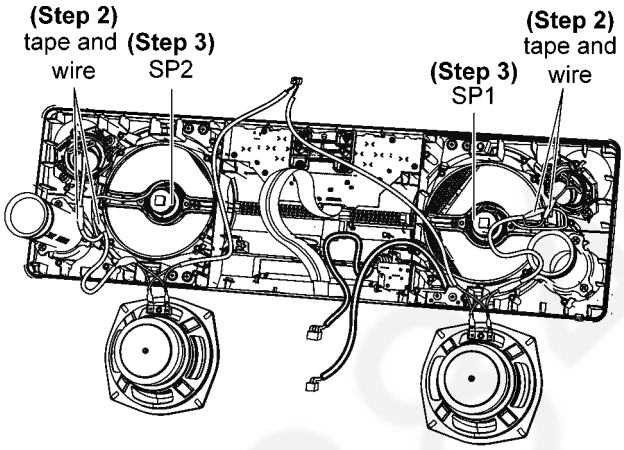

## 8.9. Disassembly of Front Speakers (SP1 and SP2)

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

**Step 1** Remove 4 screws.



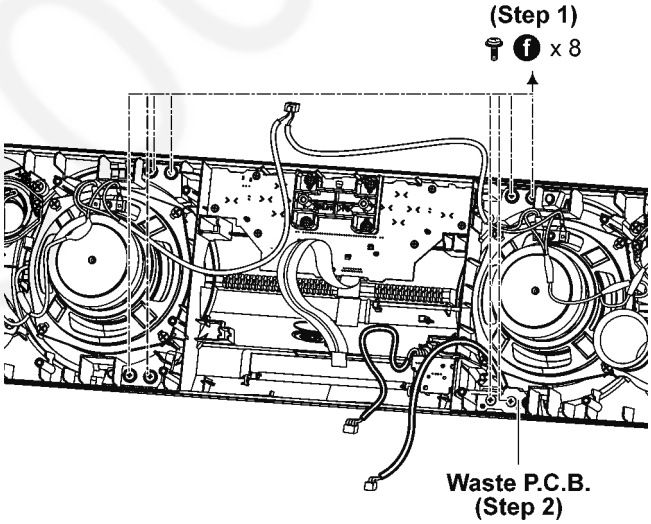

**Step 2** Remove tape and wire.
**Step 3** Remove SP1 and SP2.



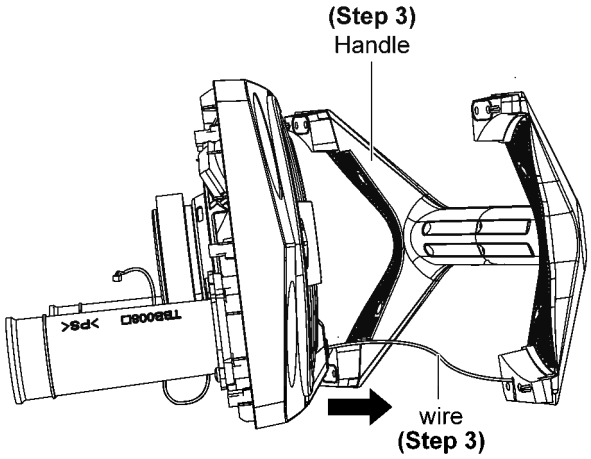

## 8.10. Disassembly of LED P.C.B.

- **Refer to "Disassembly of Front Panel Unit".**

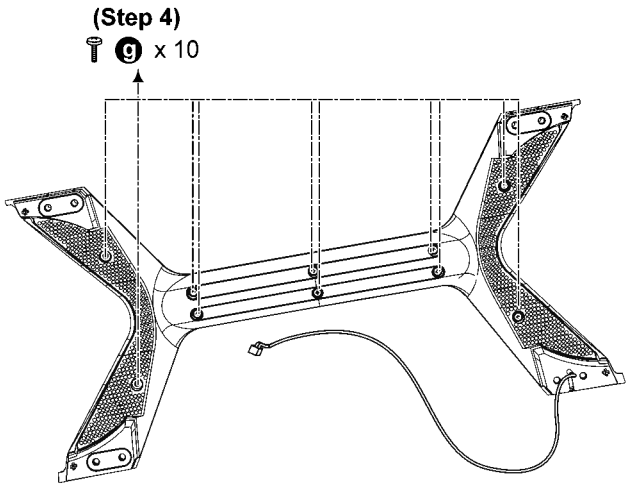
**Step 1** Remove 8 screws.
**Step 2** Detach Waste P.C.B..



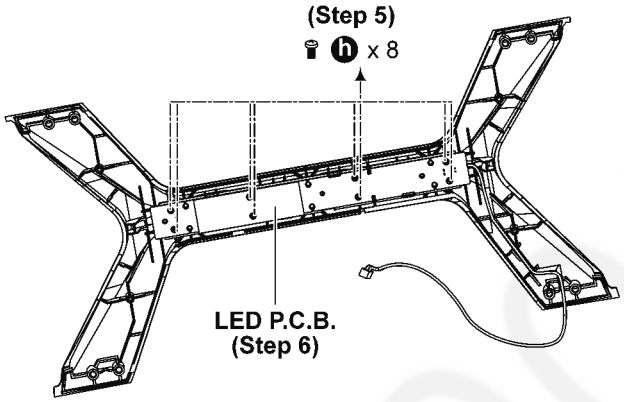

**Step 3** Remove Handle and wire.



**Step 4** Remove 10 screws.



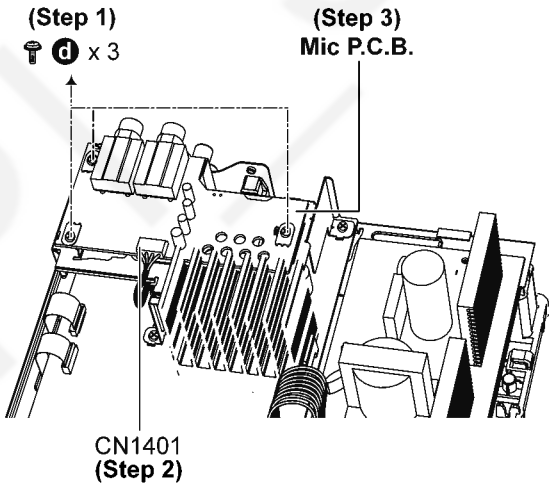

**Step 5** Remove 8 screws.
**Step 6** Remove LED P.C.B..




## 8.11. Disassembly of Mic P.C.B.

- **Refer to "Disassembly of Front Panel Unit".**

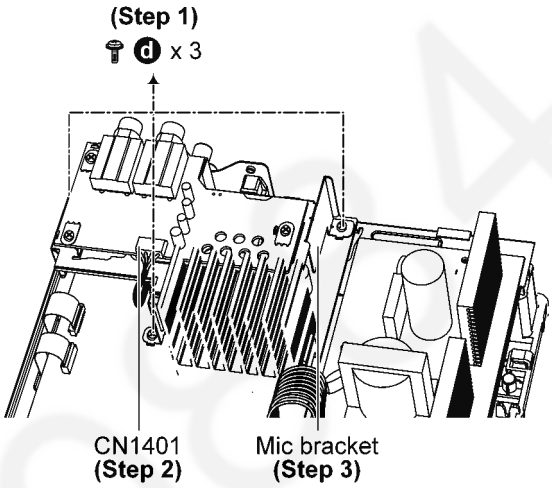
**Step 1** Remove 3 screws.
**Step 2** Detach 5P Wire at connector (CN1401) on Mic P.C.B..
**Step 3** Remove Mic P.C.B..



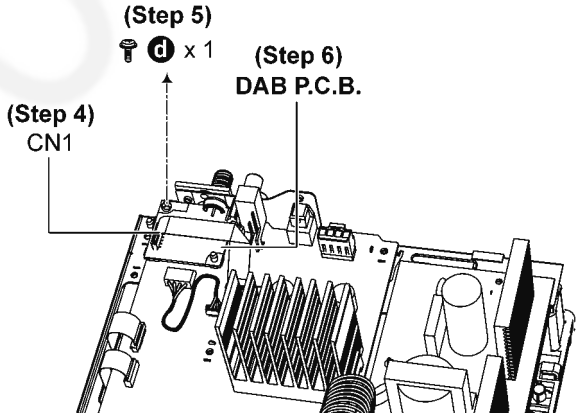

## 8.12. Disassembly of DAB P.C.B.

- **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 bracket.



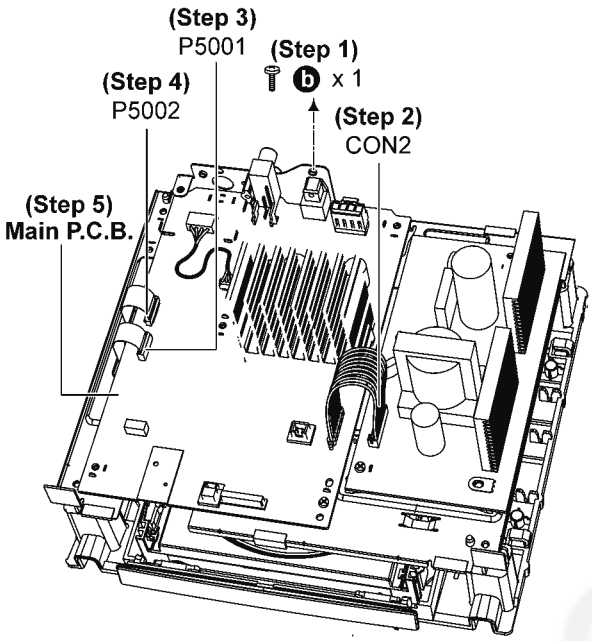

**Step 4** Detach 10P FFC at connector (CN1) on DAB P.C.B..
**Step 5** Remove 1 screw.
**Step 6** Remove DAB P.C.B..



## 8.13. Disassembly of Main P.C.B.

- **Refer to "Disassembly of Front Panel Unit".**
- **Refer to "Disassembly of DAB P.C.B.".**

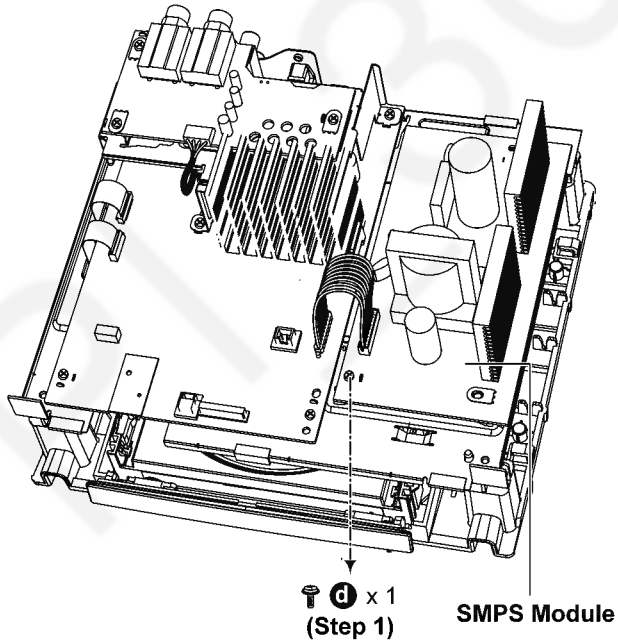
**Step 1** Remove 1 screw.
**Step 2** Detach 9P Wire at connector (CON2) on SMPS Module.
**Step 3** Detach 10P FFC at connector (P5001) on Main P.C.B..
**Step 4** Detach 24P FFC at connector (P5002) on Main P.C.B..
**Step 5** Remove Main P.C.B..



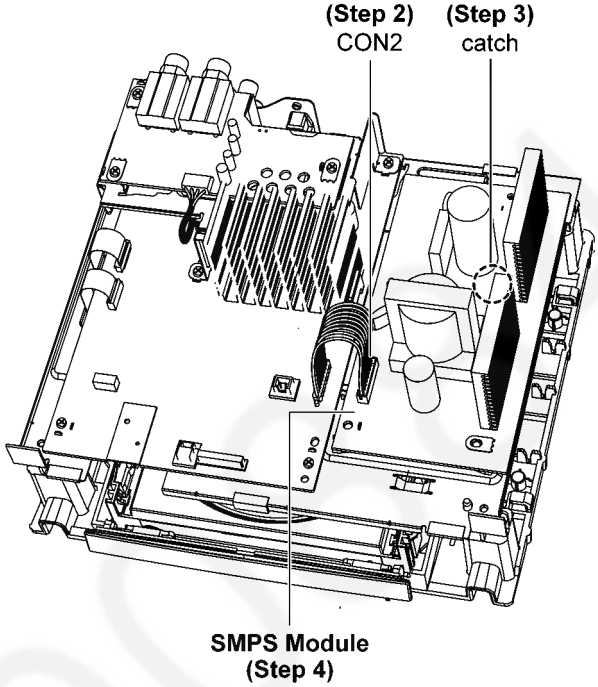

## 8.14. Disassembly of SMPS Module

- **Refer to "Disassembly of Front Panel Unit".**

**Step 1** Remove 1 screw.



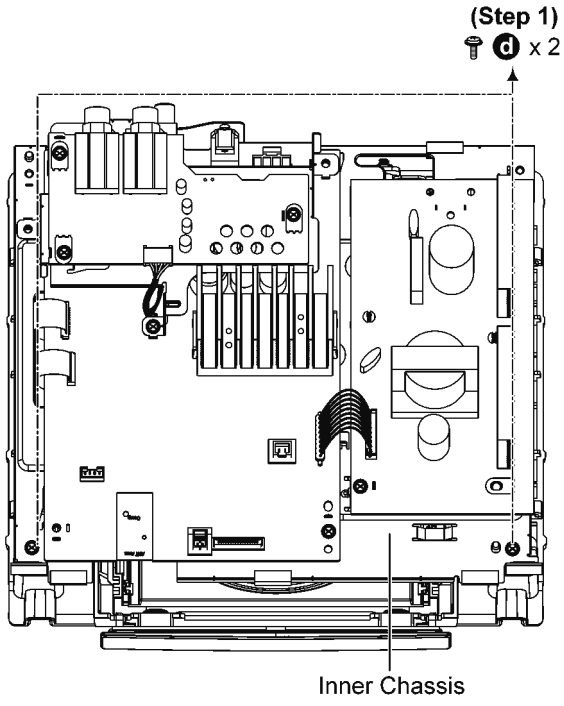

**Step 2** Detach 9P Wire at connector (CON2) on SMPS Module.
**Step 3** Release catch.
**Step 4** Remove SMPS Module.



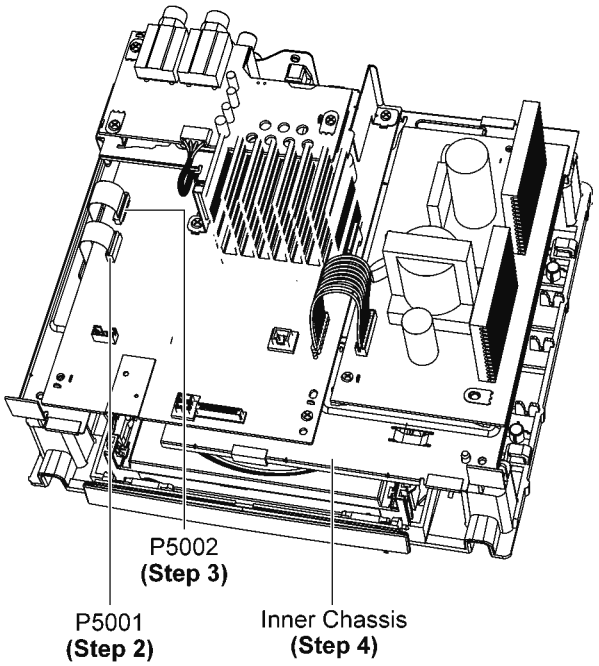

## 8.15. Disassembly of CD Mechanism Unit

- **Refer to "Disassembly of Front Panel Unit".**

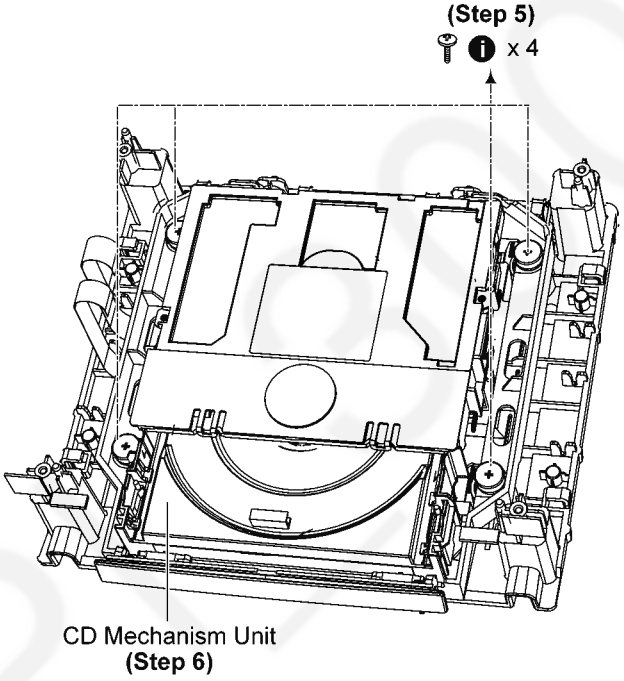
**Step 1** Remove 2 screws.



**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.



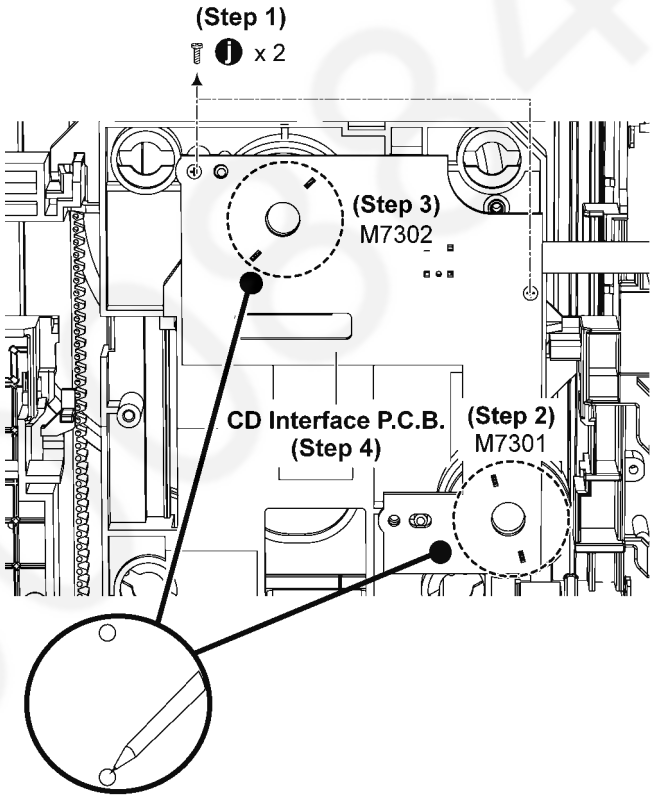

**Step 5** Remove 4 screws.
**Step 6** Remove CD Mechanism Unit.




## 8.16. 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..

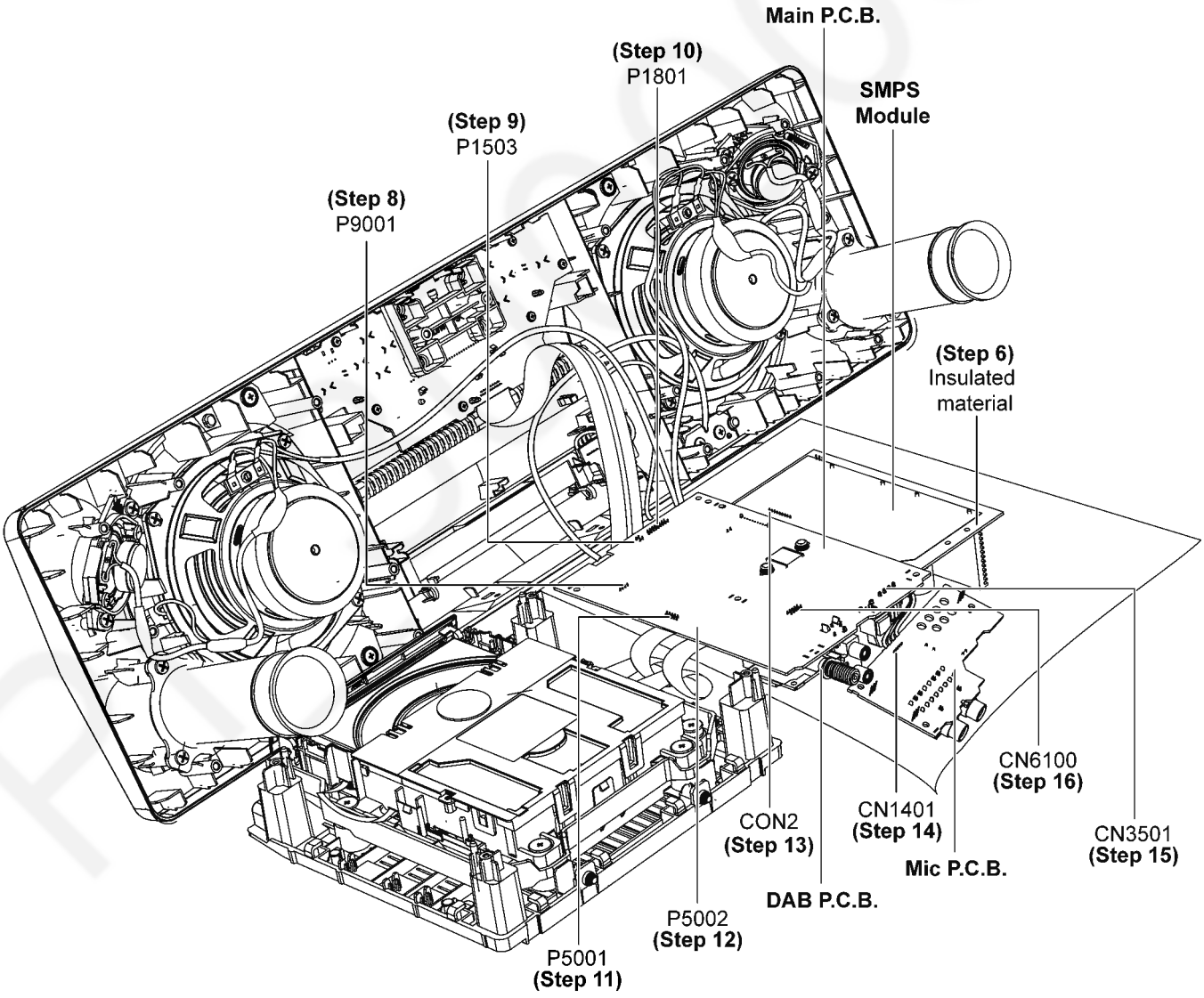


# 9 Service Position

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

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

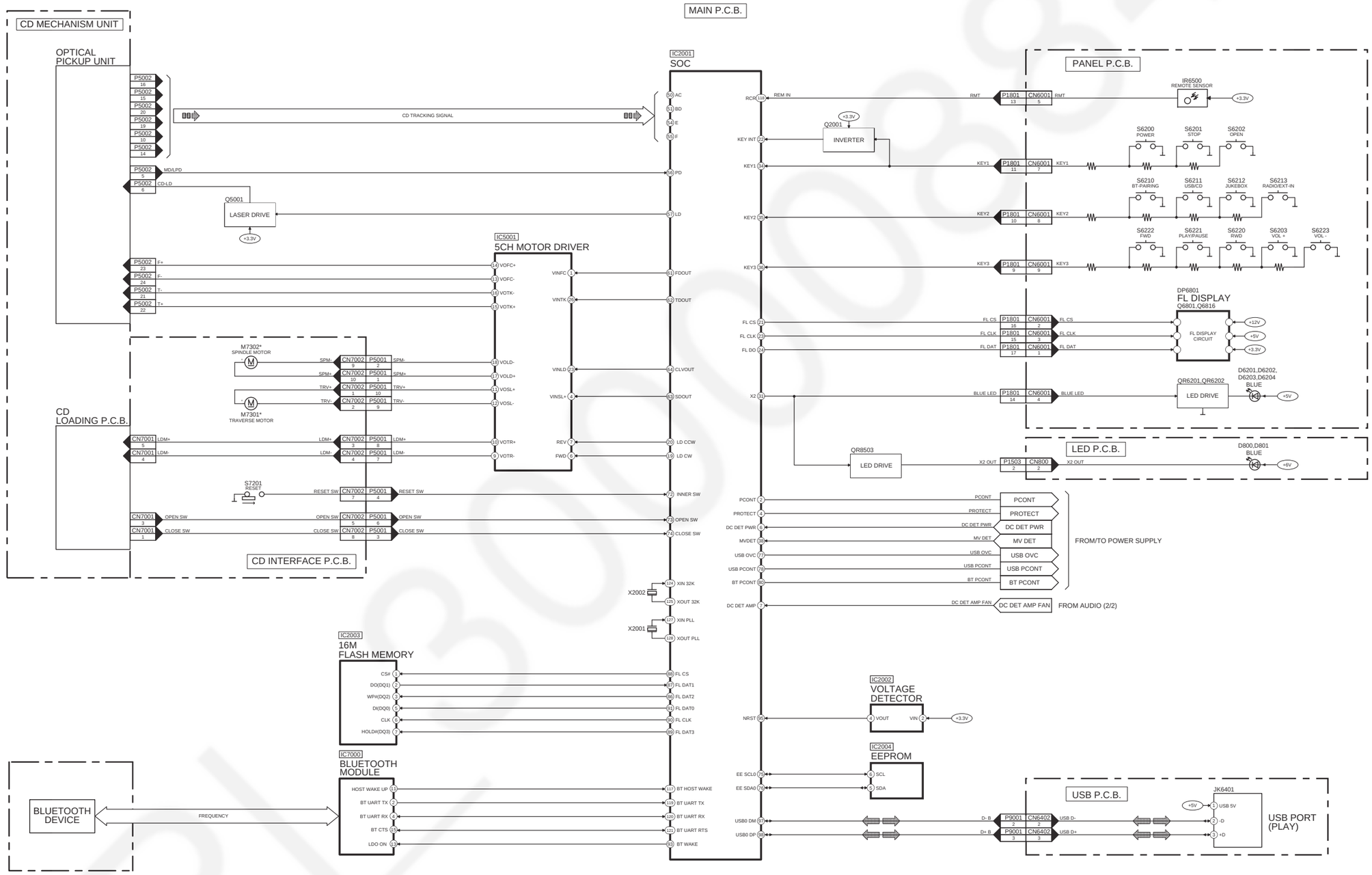
**Step 1** Remove Front Panel Unit.
**Step 2** Remove Mic P.C.B.
**Step 3** Remove Main P.C.B..
**Step 4** Remove DAB P.C.B..
**Step 5** Remove SMPS Module.
**Step 6** Remove CD Mechanism Unit.
**Step 7** Place Main P.C.B. and SMPS Module on the insulated material as shown.
**Step 8** Attach 4P Wire at connector (P9001) on Main P.C.B..
**Step 9** Attach 2P Wire at connector (P1503) on Main P.C.B..
**Step 10** Attach 17P FFC at connector (P1801) on Main P.C.B..
**Step 11** Attach 10P FFC at connector (P5001) on Main P.C.B..
**Step 12** Attach 24P FFC at connector (P5002) on Main P.C.B..
**Step 13** Attach 9P Wire at connector (CON2) on SMPS Module.
**Step 14** Attach 5P Wire at connector (CN1401) on Mic P.C.B..
**Step 15** Attach 4P Wire at connector (CN3501) on Main P.C.B..
**Step 16** Attach 10P Wire at connector (CN6100) on Main P.C.B..
**Step 17** 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

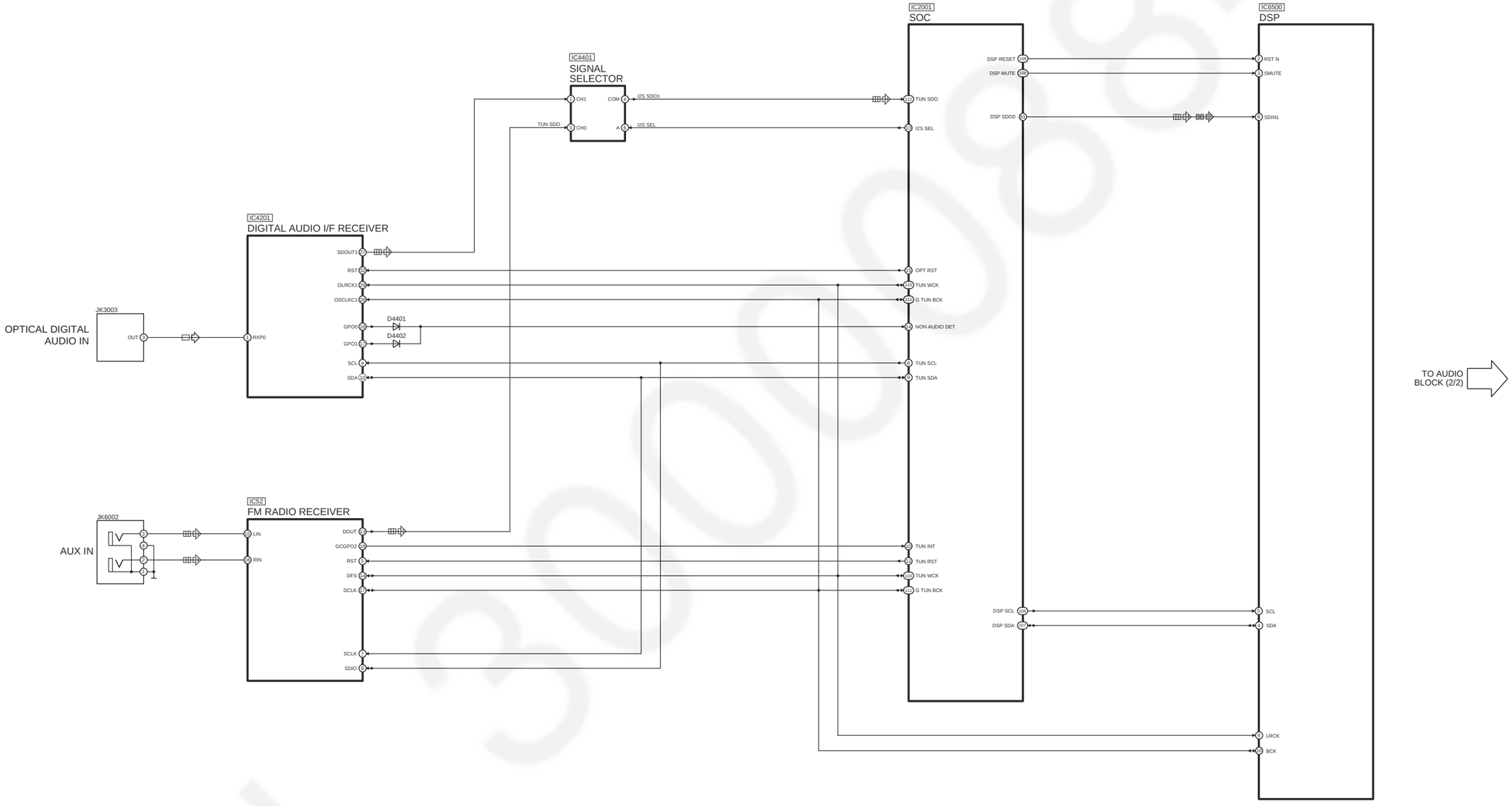



NOTE: " * " REF IS FOR INDICATION ONLY

SC-UA4E SYSTEM CONTROL BLOCK DIAGRAM

# 10.2. Audio (1/2)

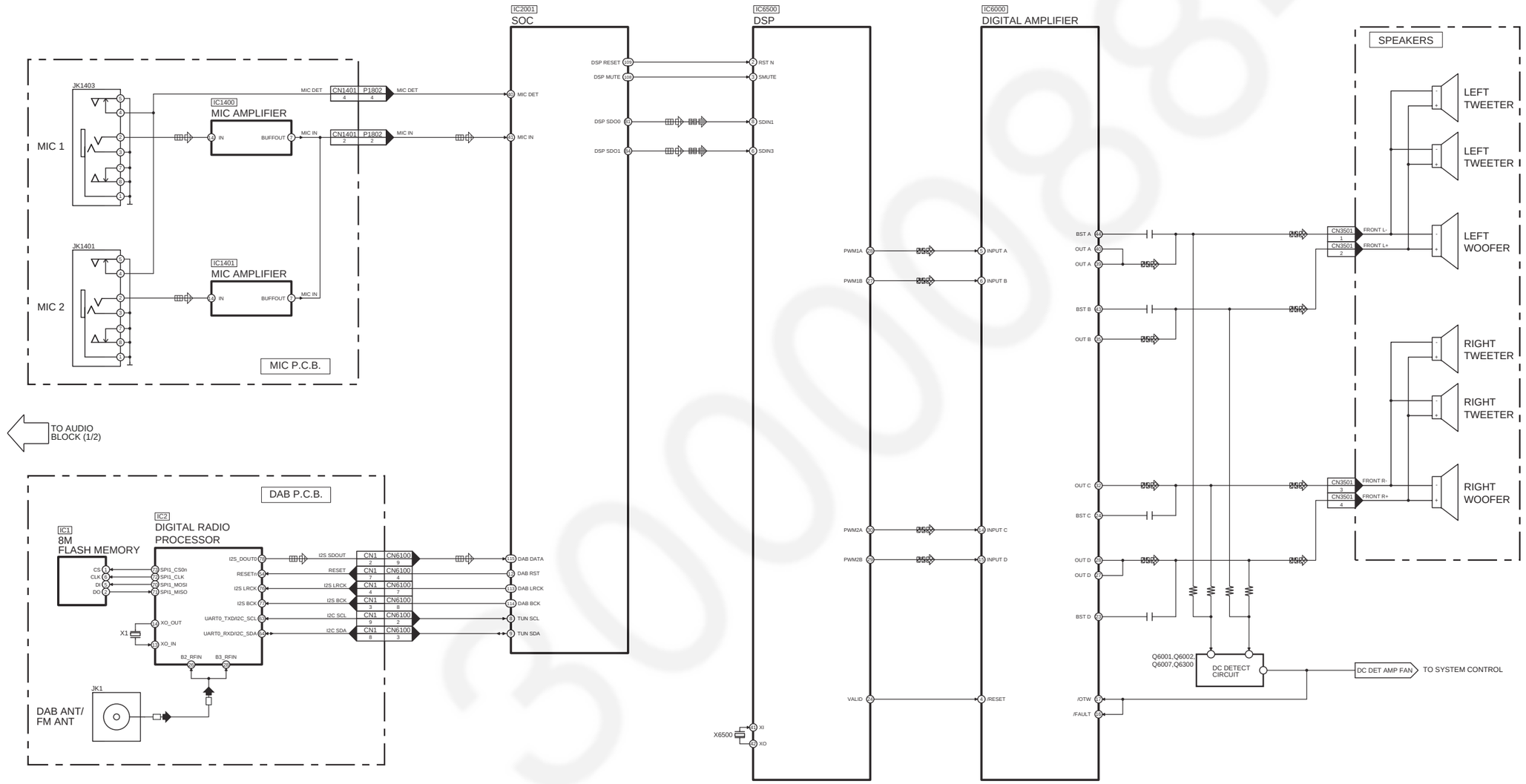
: CD SIGNAL LINE : TUNER/AUX SIGNAL LINE : OUTPUT SIGNAL LINE : OPTICAL DIGITAL SIGNAL LINE




SC-UA4E AUDIO (1/2) BLOCK DIAGRAM

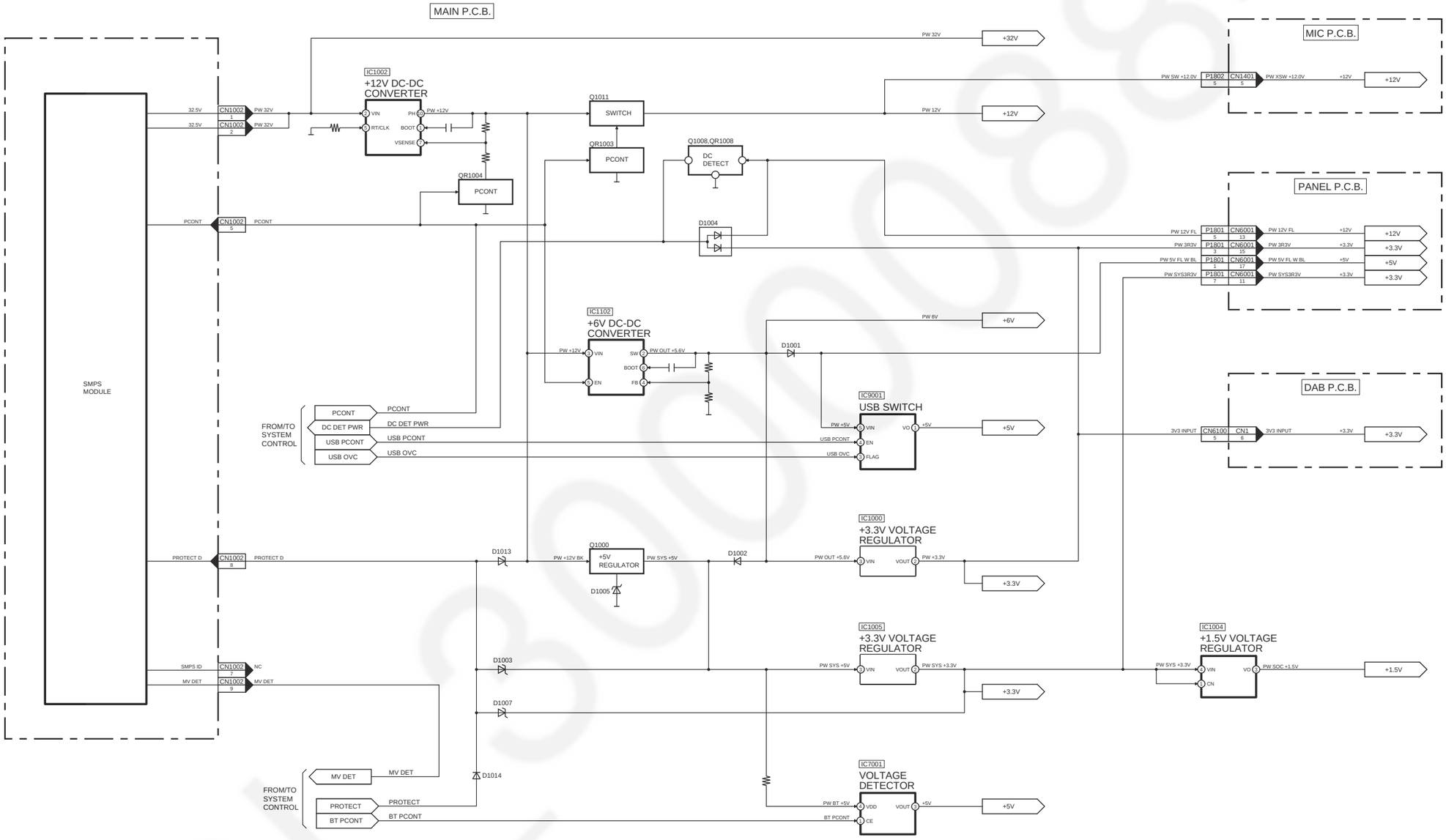
# 10.3. Audio (2/2)

: CD SIGNAL LINE : TUNER/AUX SIGNAL LINE : OUTPUT SIGNAL LINE : DAB/FM SIGNAL LINE



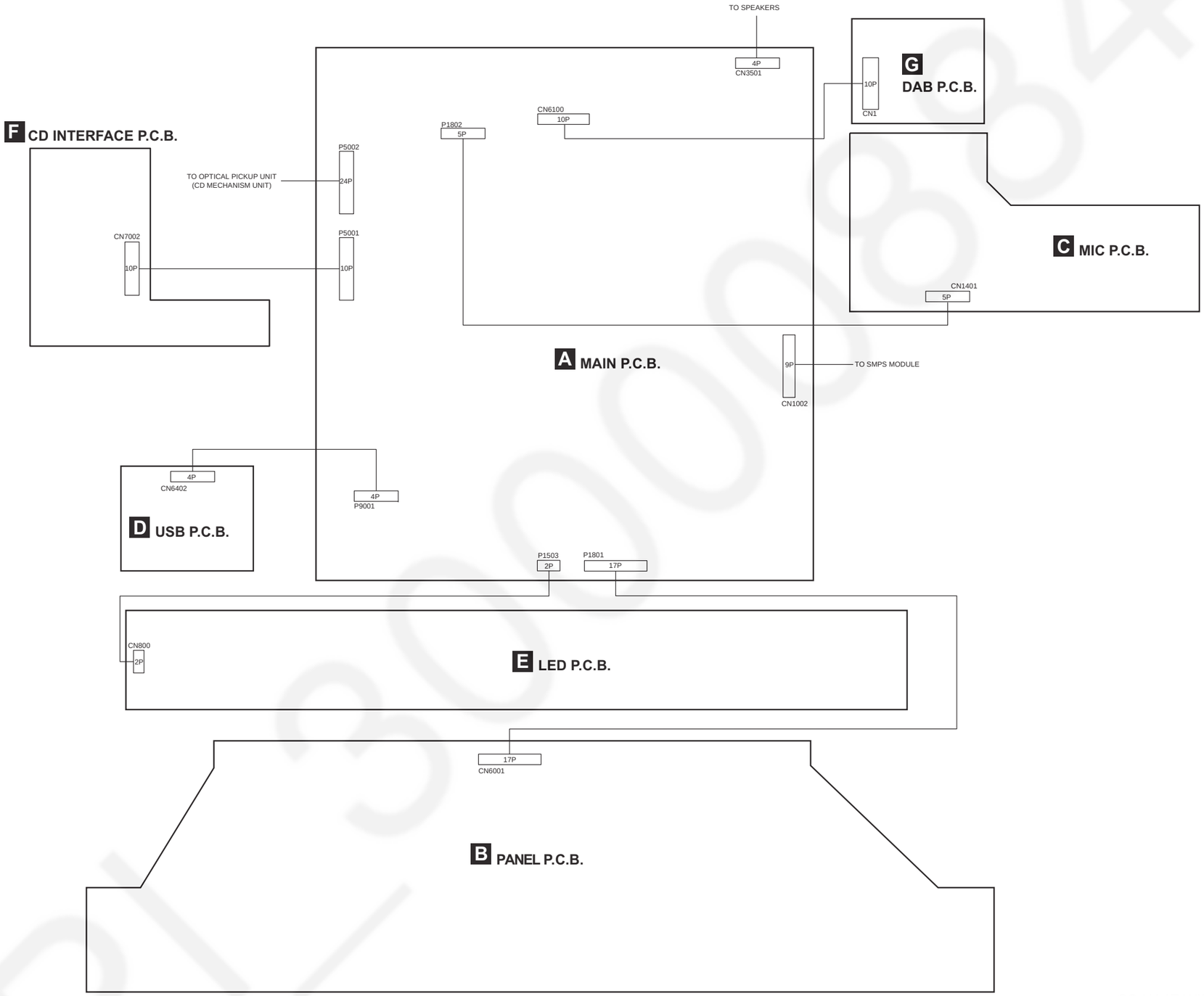

SC-UA4E AUDIO (2/2) BLOCK DIAGRAM

## 10.4. Power Supply




SC-UA4E POWER SUPPLY BLOCK DIAGRAM

# 11 Wiring Connection Diagram




SC-UA4E 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.

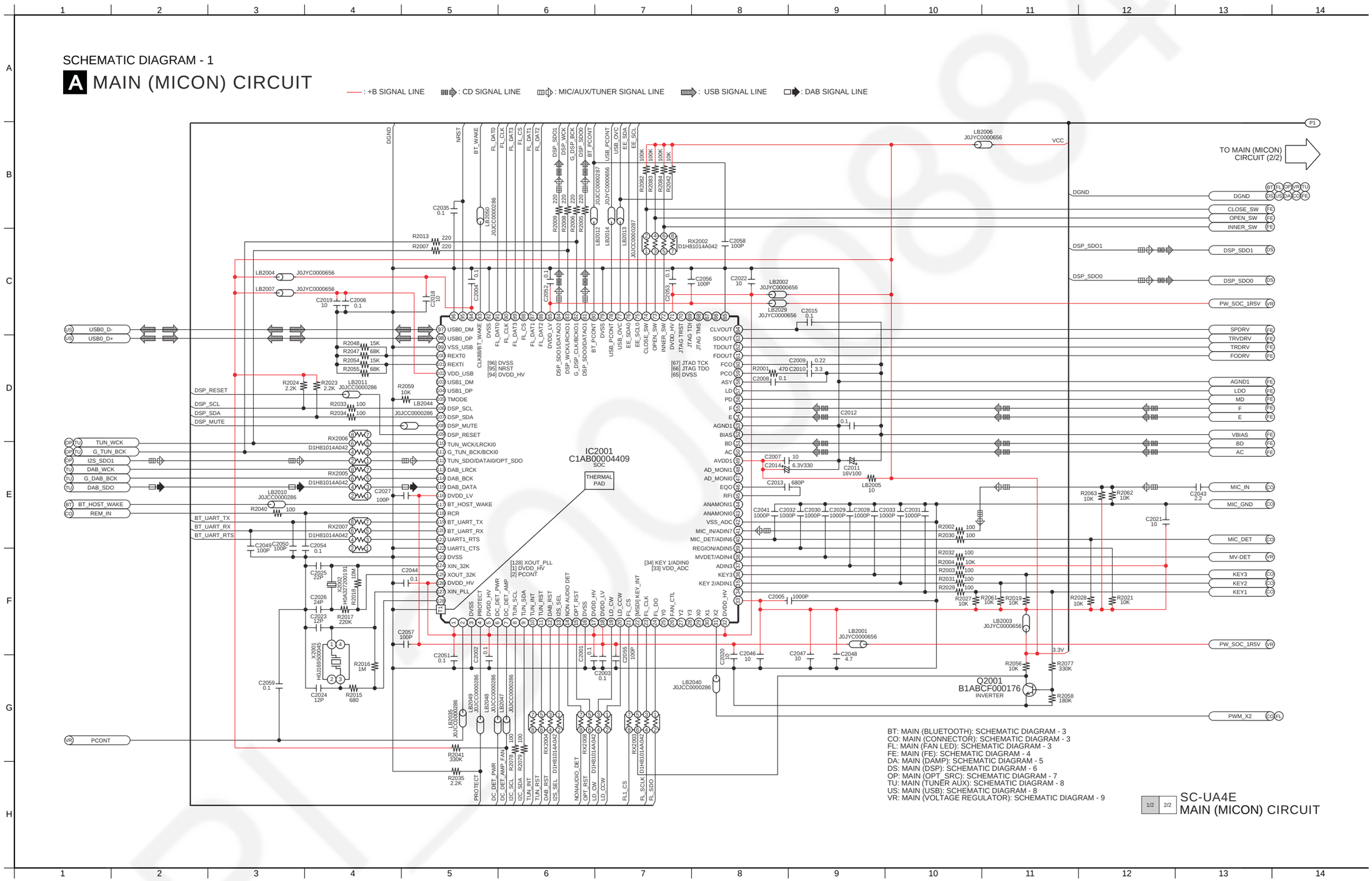
- **Coil**
  Unit of inductance is H, unless otherwise noted.

- *****
  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
  : Optical digital signal line
  : DAB/FM signal line

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

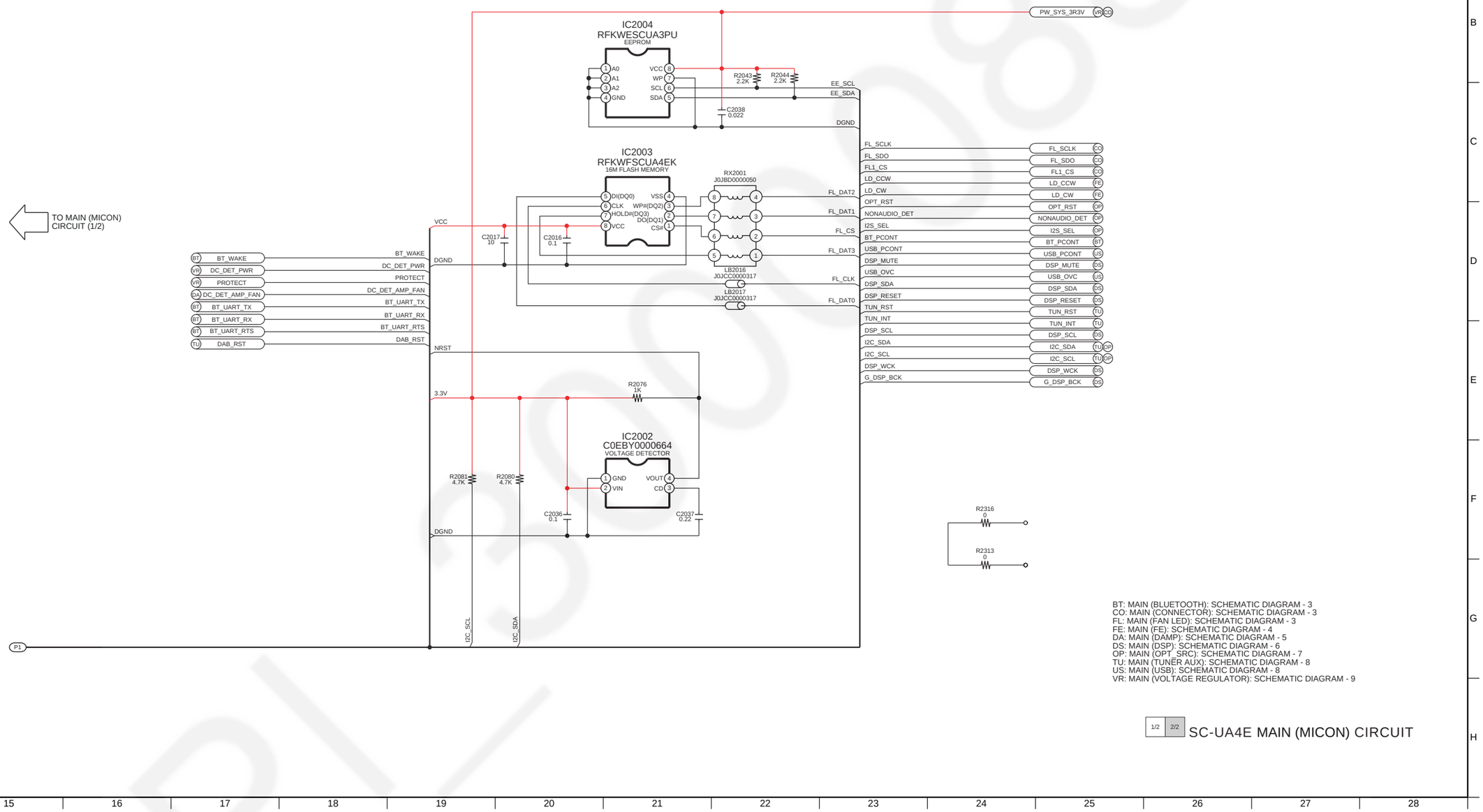


## 12.3. Main (Micon) Circuit (2/2)

SCHEMATIC DIAGRAM - 2

**A** MAIN (MICON) CIRCUIT

—— : +B SIGNAL LINE




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

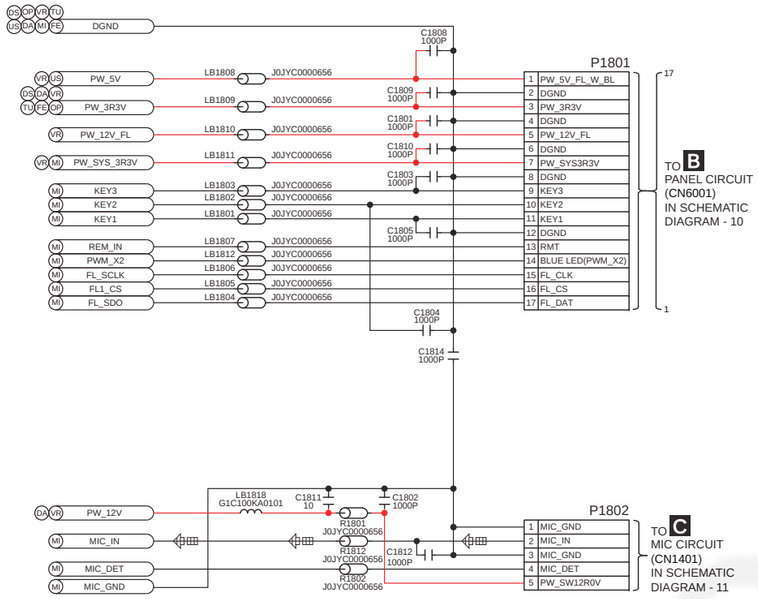
1/2 2/2 SC-UA4E MAIN (MICON) CIRCUIT

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

SCHEMATIC DIAGRAM - 3

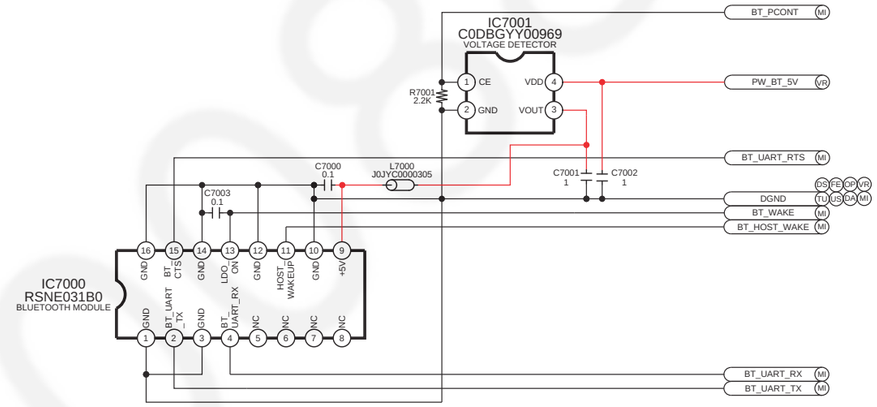
### A MAIN (CONNECTOR) CIRCUIT

: +B SIGNAL LINE  : MIC SIGNAL LINE



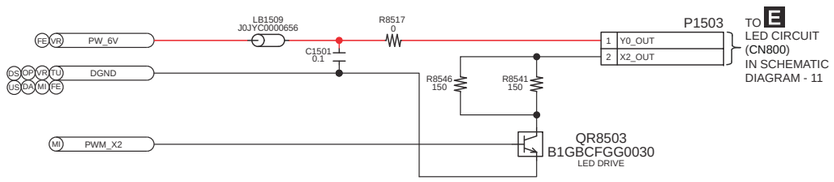

### A MAIN (BLUETOOTH) CIRCUIT

: +B SIGNAL LINE




### A MAIN (FAN LED) CIRCUIT

: +B SIGNAL LINE




MA: MAIN (MAIN): SCHEMATIC DIAGRAM - 1 ~ 2
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

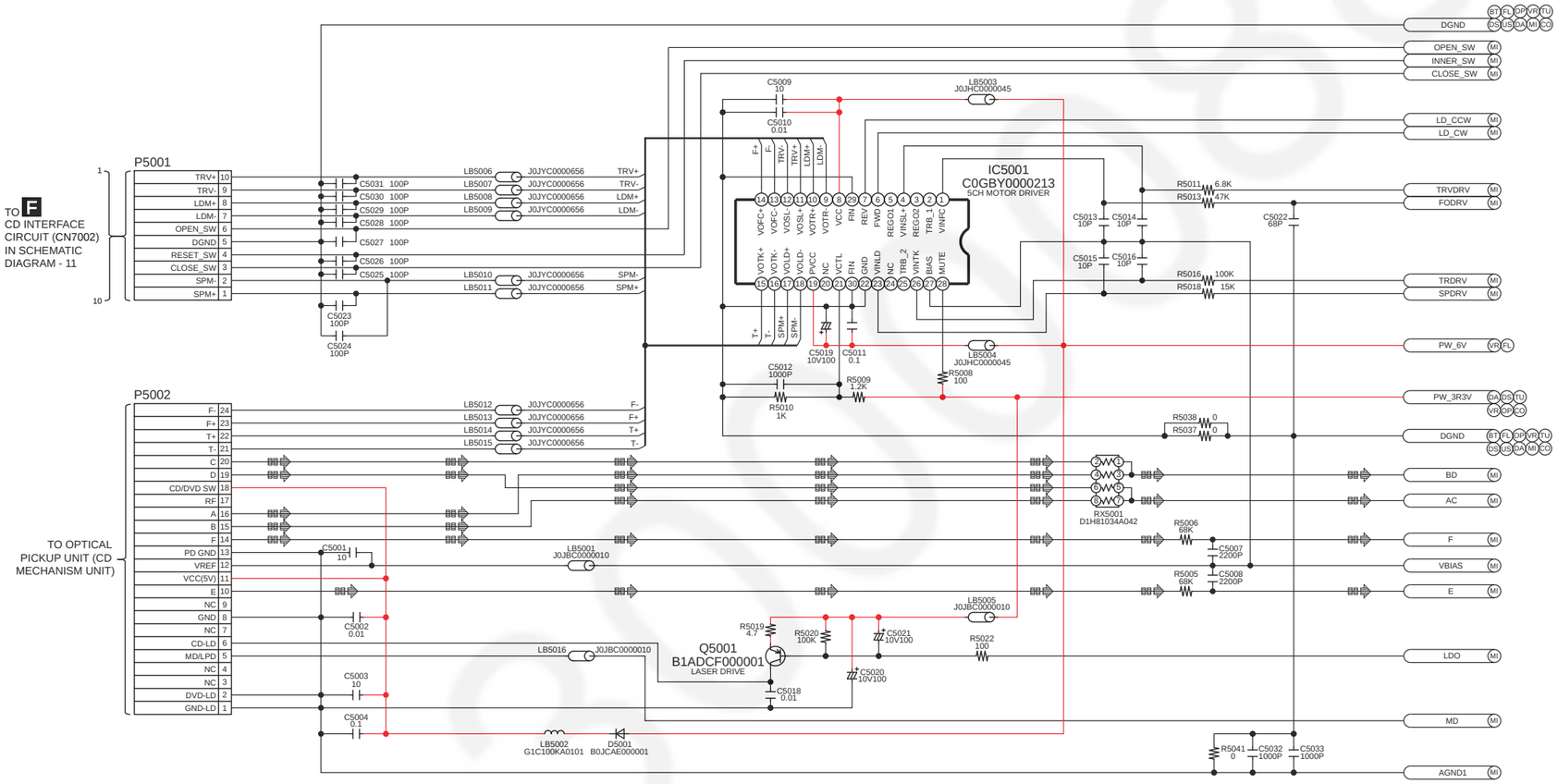
SC-UA4E MAIN (CONNECTOR) / MAIN (BLUETOOTH) / MAIN (FAN LED) CIRCUIT

## 12.5. Main (FE) Circuit

SCHEMATIC DIAGRAM - 4

**A** MAIN (FE) CIRCUIT

—— : +B SIGNAL LINE  ▮▮▶ : CD 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
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

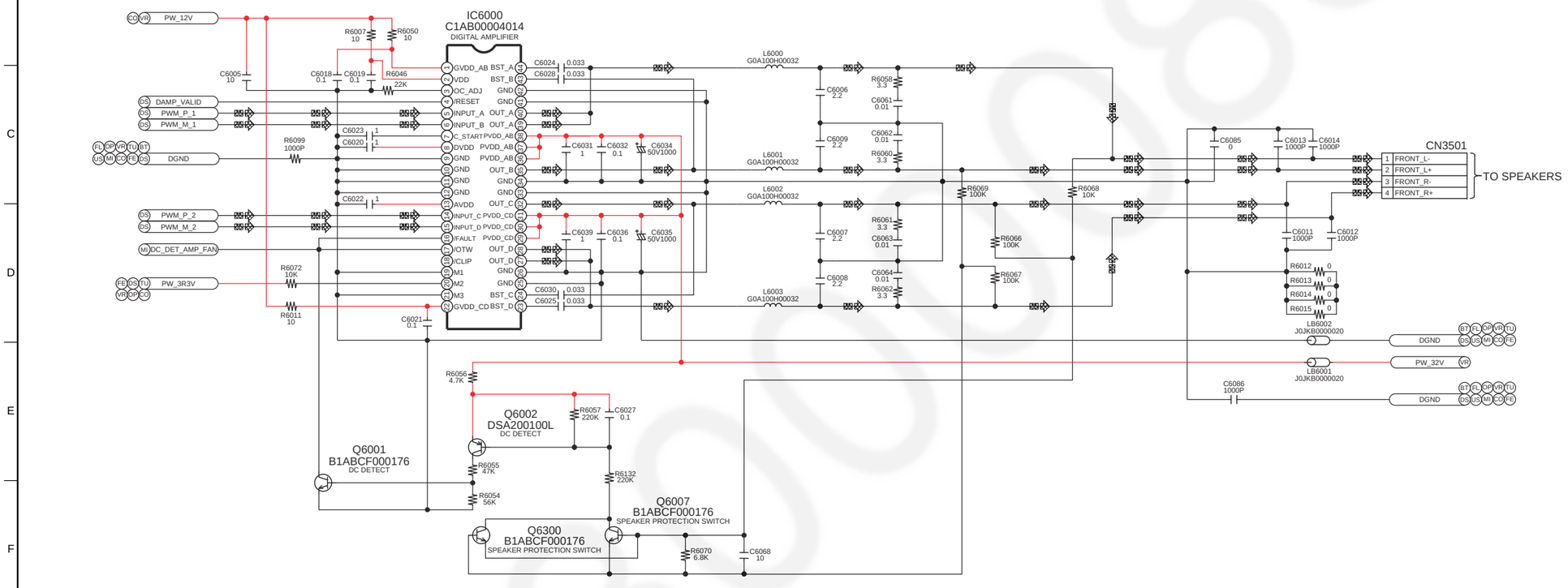
SC-UA4E MAIN (FE) CIRCUIT

## 12.6. Main (DAMP) Circuit

SCHEMATIC DIAGRAM - 5

**A** MAIN (DAMP) CIRCUIT

—— : +B SIGNAL LINE  ▨▨▨ : OUTPUT 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
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

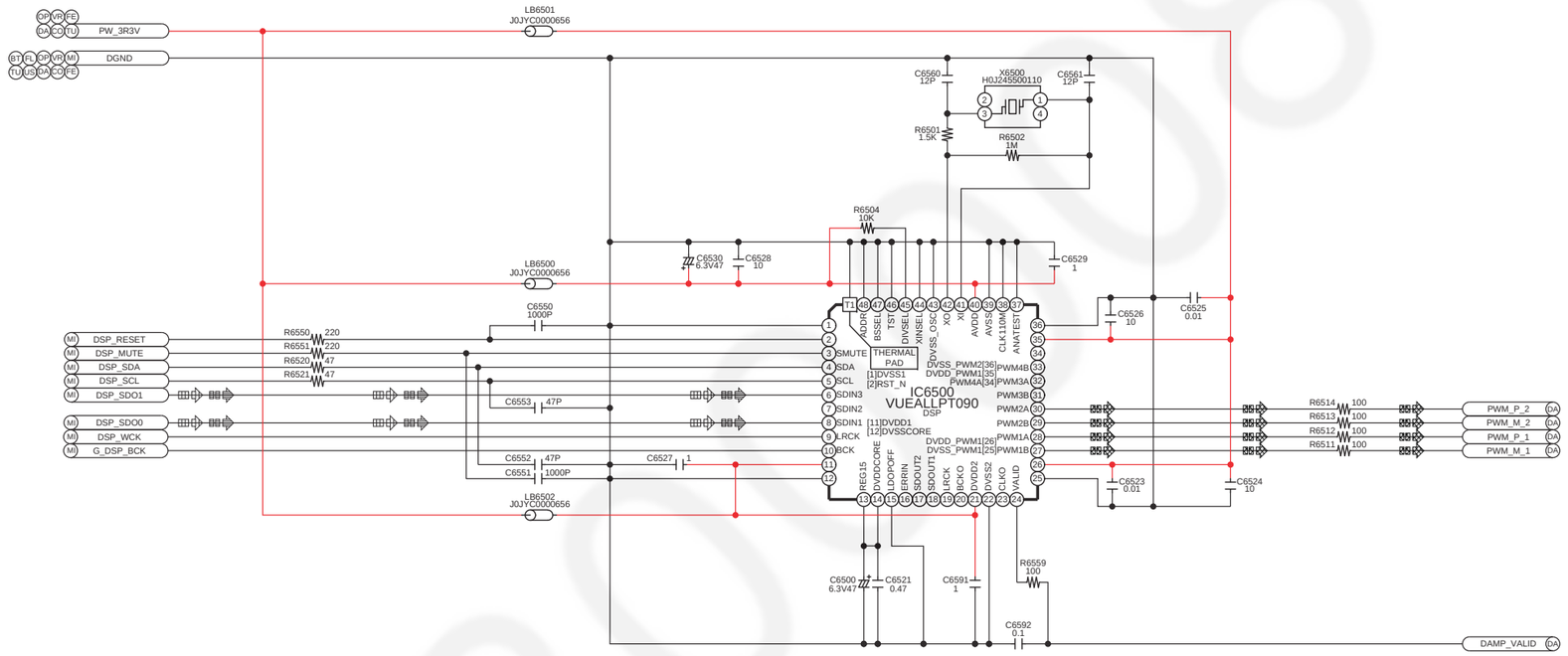
SC-UA4E MAIN (DAMP) CIRCUIT

## 12.7. Main (DSP) Circuit

SCHEMATIC DIAGRAM - 6

**A** MAIN (DSP) CIRCUIT

—— : +B SIGNAL LINE  : OUTPUT SIGNAL LINE  : CD SIGNAL LINE  : MIC/AUX/TUNER 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
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

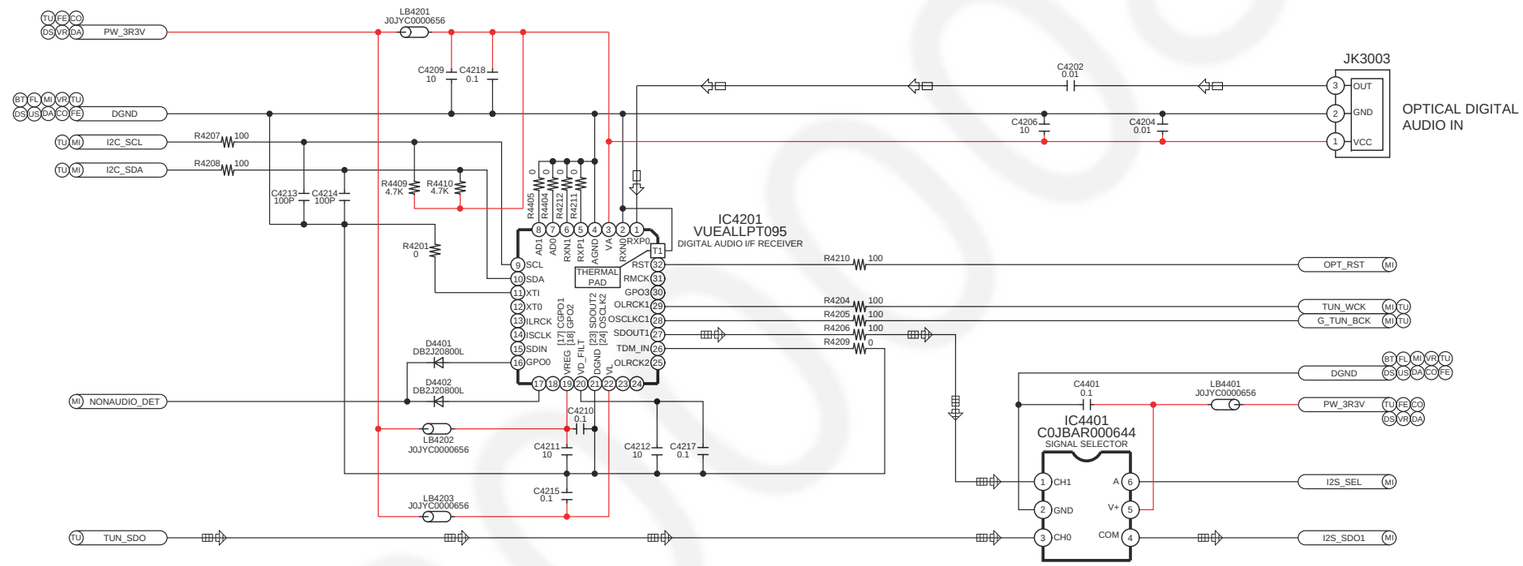
SC-UA4E MAIN (DSP) CIRCUIT

## 12.8. Main (OPT_SRC) Circuit

SCHEMATIC DIAGRAM - 7

**A** MAIN (OPT_SRC) CIRCUIT

—— : +B SIGNAL LINE  : AUX/TUNER SIGNAL LINE  : OPTICAL DIGITAL 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
TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 8
US: MAIN (USB): SCHEMATIC DIAGRAM - 8
VR: MAIN (VOLTAGE REGULATOR): SCHEMATIC DIAGRAM - 9

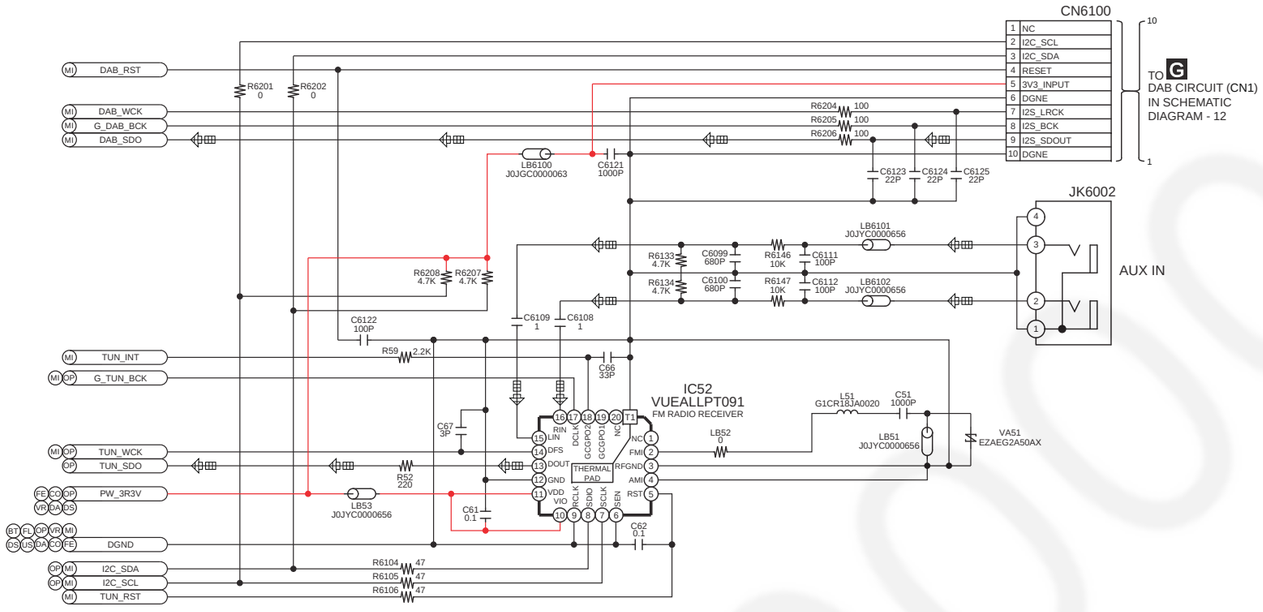
SC-UA4E MAIN (OPT_SRC) CIRCUIT

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

SCHEMATIC DIAGRAM - 8

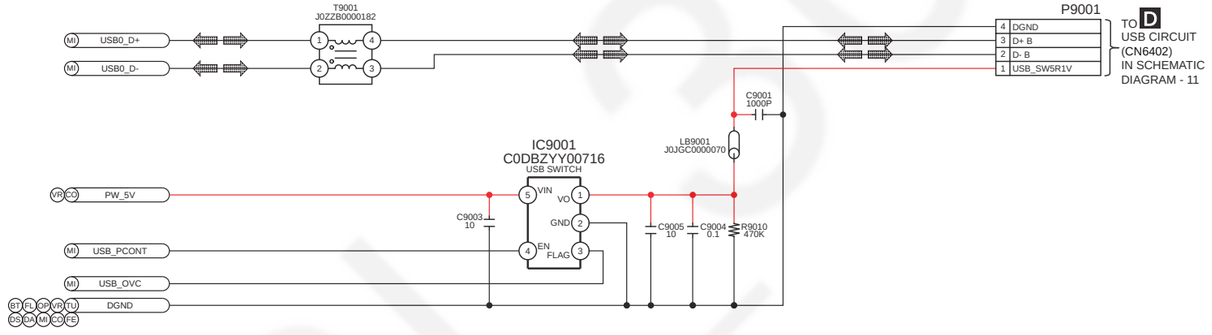
### A MAIN (TUNER AUX) CIRCUIT

—— : +B SIGNAL LINE  : AUX/TUNER SIGNAL LINE




### 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

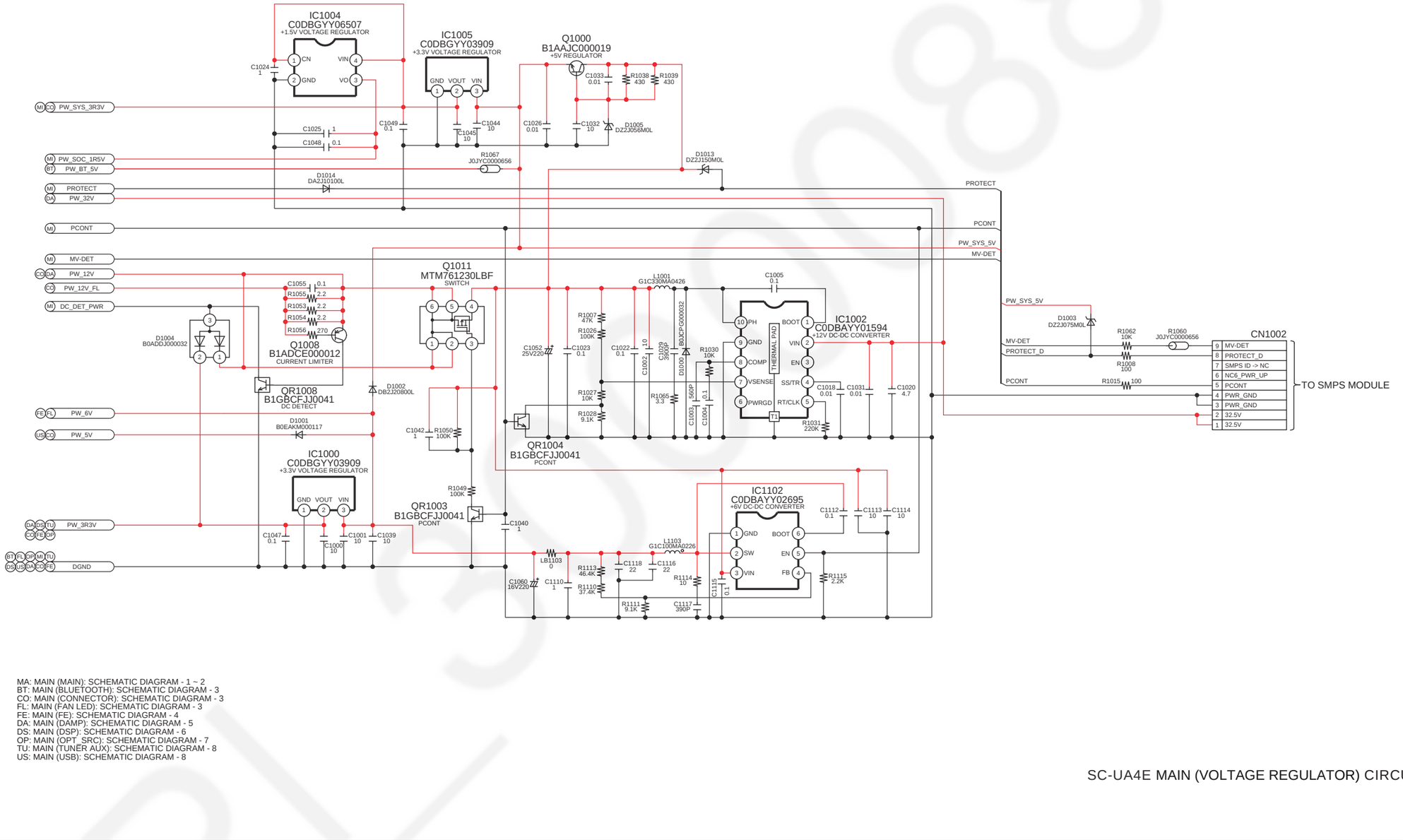
SC-UA4E MAIN (TUNER AUX) / MAIN (USB) CIRCUIT

## 12.10. Main (Voltage Regulator) Circuit

SCHEMATIC DIAGRAM - 9

**A** MAIN (VOLTAGE REGULATOR) CIRCUIT

—— : +B 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

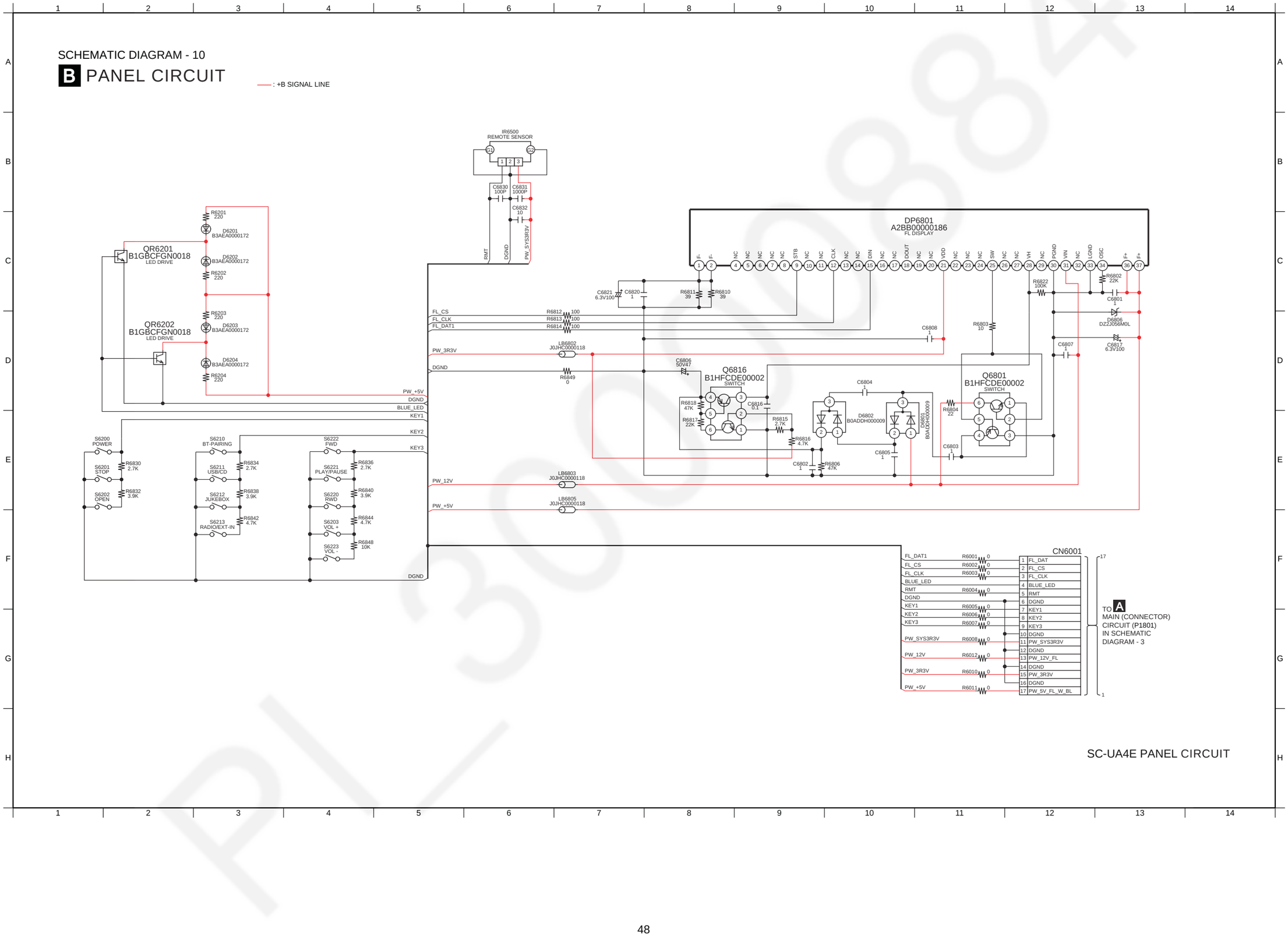
SC-UA4E MAIN (VOLTAGE REGULATOR) CIRCUIT

## 12.11. Panel Circuit

SCHEMATIC DIAGRAM - 10

**B** PANEL CIRCUIT

—— : +B SIGNAL LINE

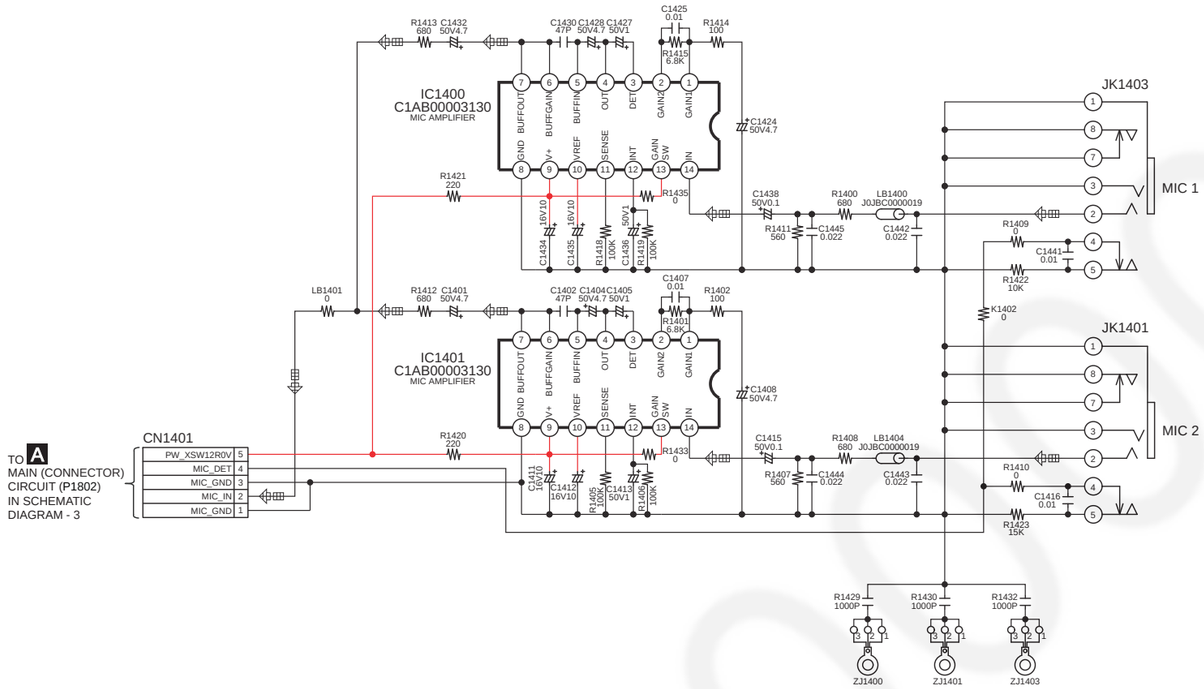


## 12.12. Mic, USB, LED and CD Interface Circuit

SCHEMATIC DIAGRAM - 11

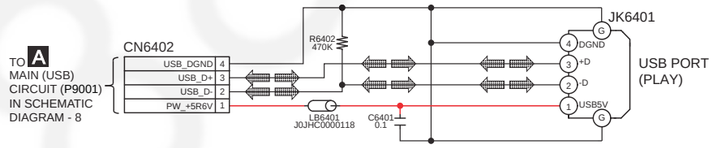
### C MIC CIRCUIT

: +B SIGNAL LINE  : MIC SIGNAL LINE

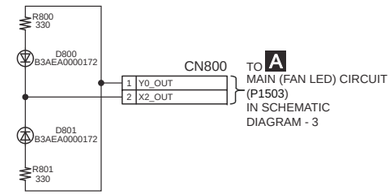



### D USB CIRCUIT

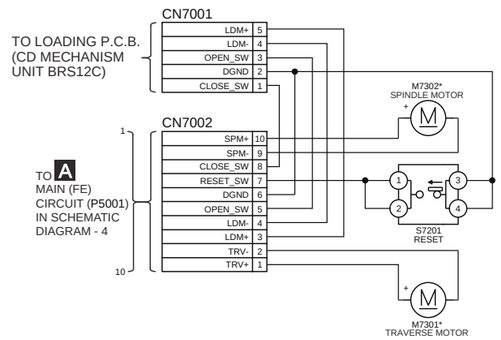
: +B SIGNAL LINE  : USB SIGNAL LINE




### E LED CIRCUIT




### F CD INTERFACE CIRCUIT




NOTE: " * " REF IS FOR INDICATION ONLY

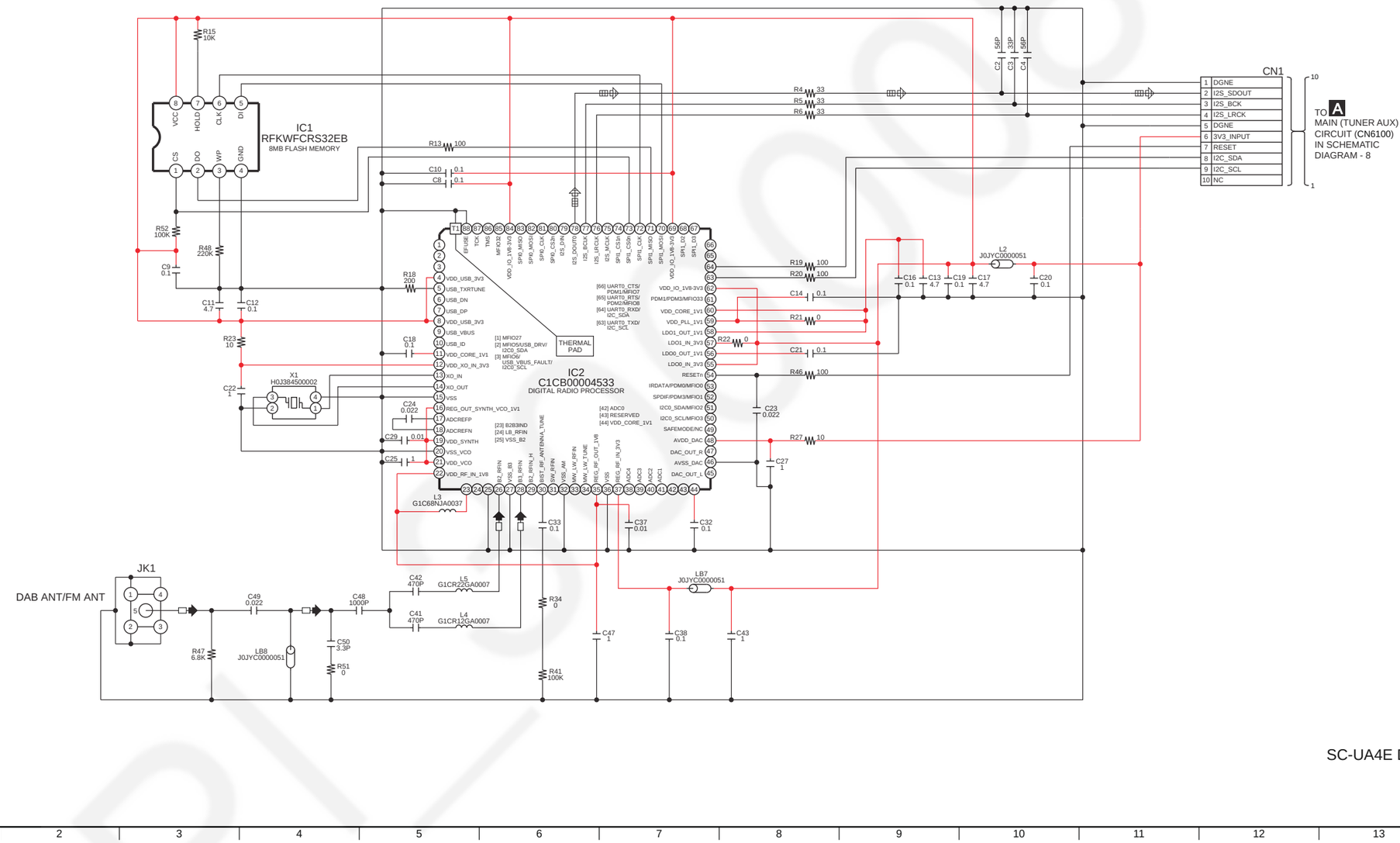
SC-UA4E MIC / USB / LED / CD INTERFACE CIRCUIT

## 12.13. DAB Circuit

SCHEMATIC DIAGRAM - 12

**G** DAB CIRCUIT

—— : +B SIGNAL LINE  : TUNER SIGNAL LINE  : DAB/FM SIGNAL LINE

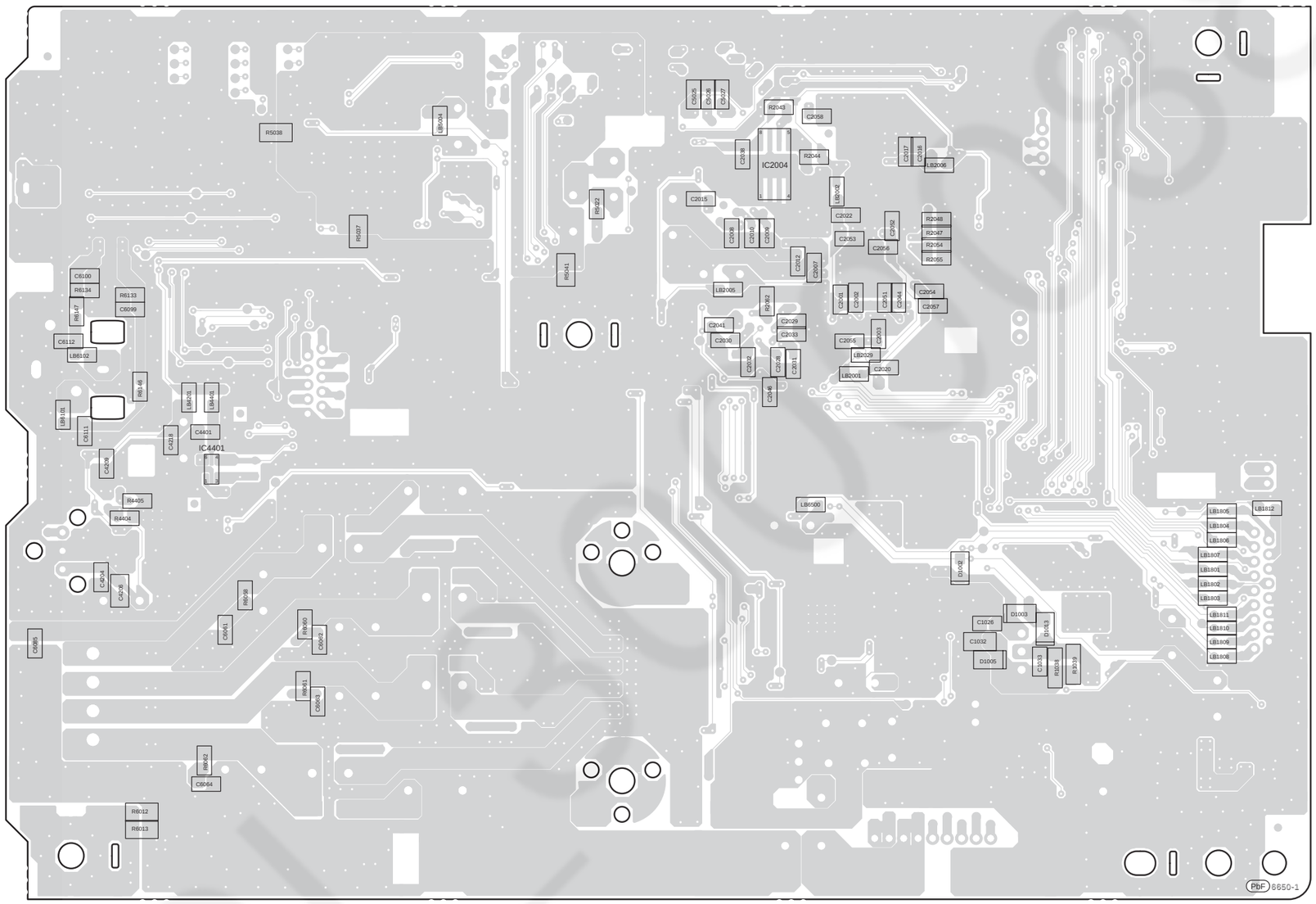



SC-UA4E DAB CIRCUIT

# 13 Printed Circuit Board

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

**A** MAIN P.C.B. (TNPA6650)

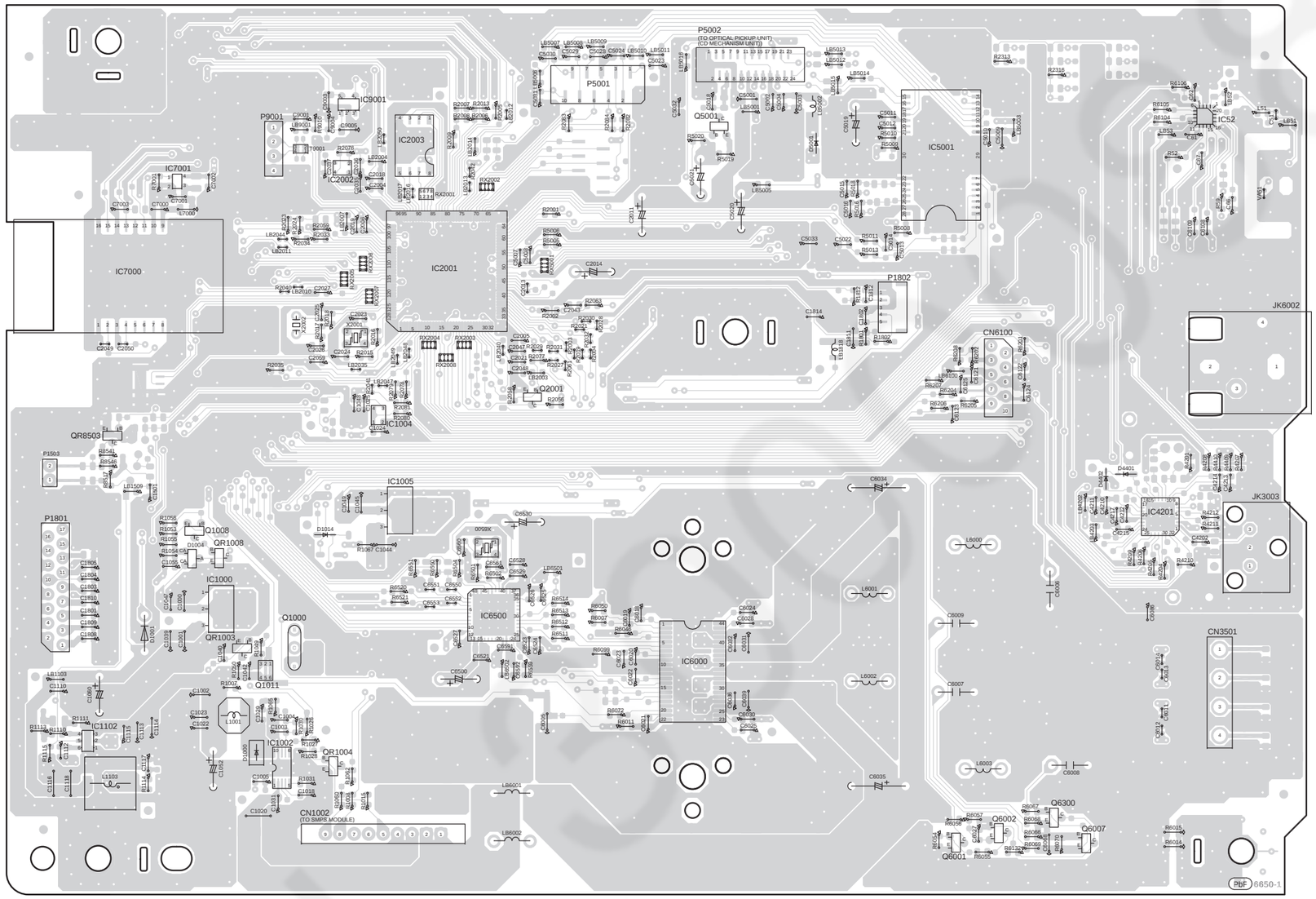



(SIDE A)

SC-UA4E
MAIN P.C.B.

## 13.2. Main P.C.B. (Side B)

**A** MAIN P.C.B. (TNPA6650)

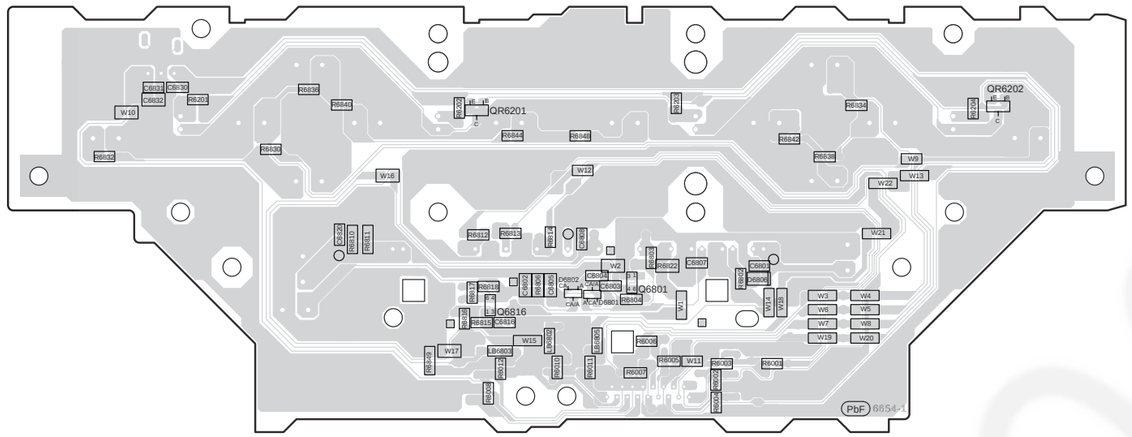



(SIDE B)

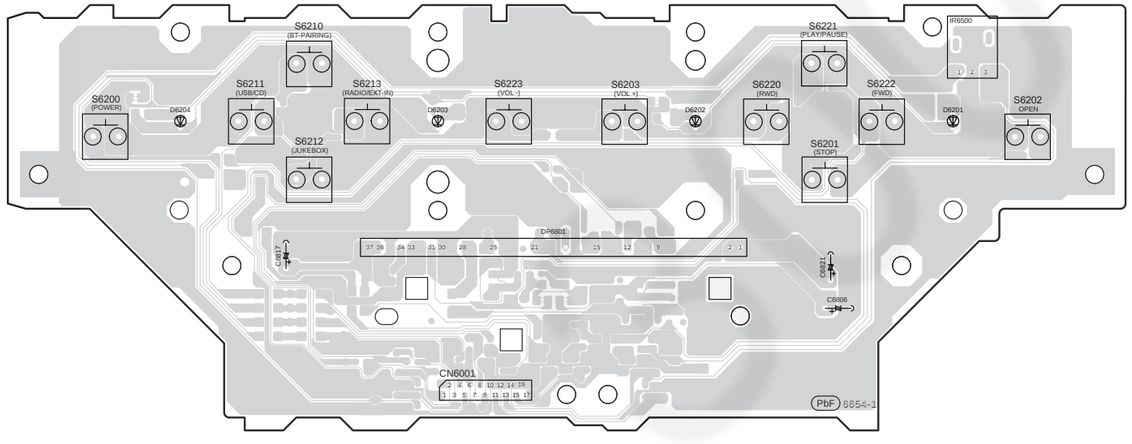
SC-UA4E
MAIN P.C.B.

## 13.3. Panel, Mic and USB P.C.B.

### B PANEL P.C.B. (TNPA6654)

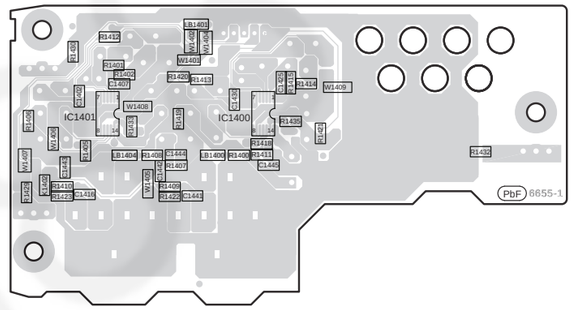



(SIDE A)

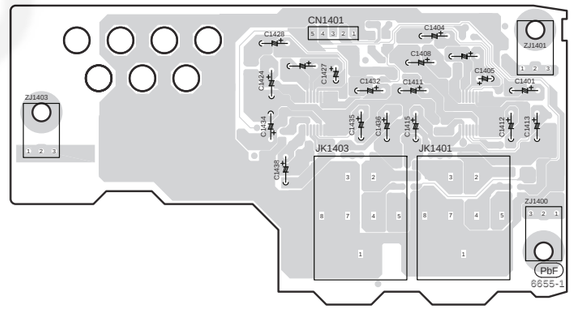



(SIDE B)

### C MIC P.C.B. (TNPA6655)



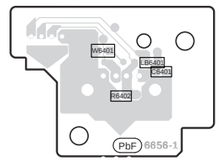

(SIDE A)



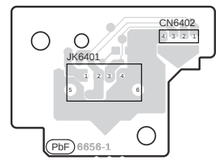

(SIDE B)

MIC 1 MIC 2

### D USB P.C.B. (TNPA6656)




(SIDE A)




(SIDE B)

USB PORT (PLAY)

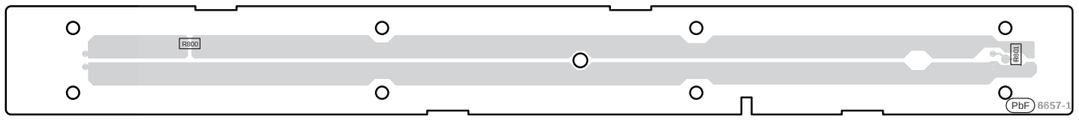
H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13

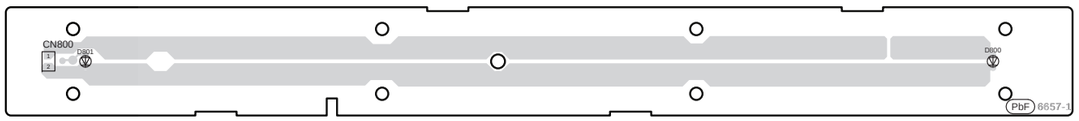
SC-UA4E
PANEL / MIC / USB P.C.B.

## 13.4. LED, CD Interface and DAB P.C.B.

### E LED P.C.B. (TNPA6657)

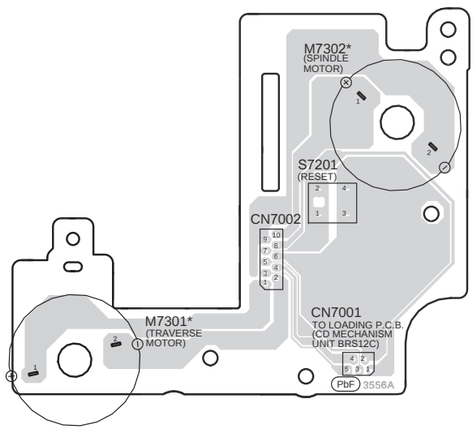



(SIDE A)



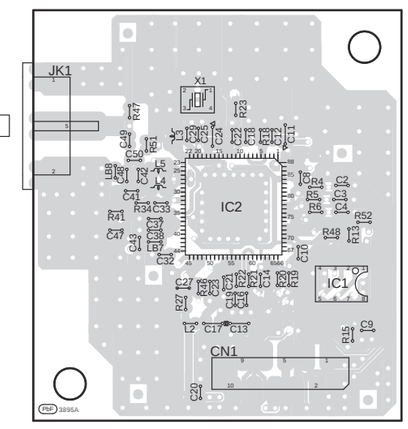

(SIDE B)

### F CD INTERFACE P.C.B. (REP4945B)




### G DAB P.C.B. (REP5310A)

DAB ANT/FM ANT




NOTE: " * " REF IS FOR INDICATION ONLY

SC-UA4E
LED / CD INTERFACE / DAB 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-UA4E 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-UA4E 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-UA4E MAIN P.C.B.**

## 14.1.4. Mic P.C.B.

| REF NO. | IC1400 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | |
| PLAY | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 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 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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-UA4E MIC P.C.B.**

## 14.1.5. Panel P.C.B.

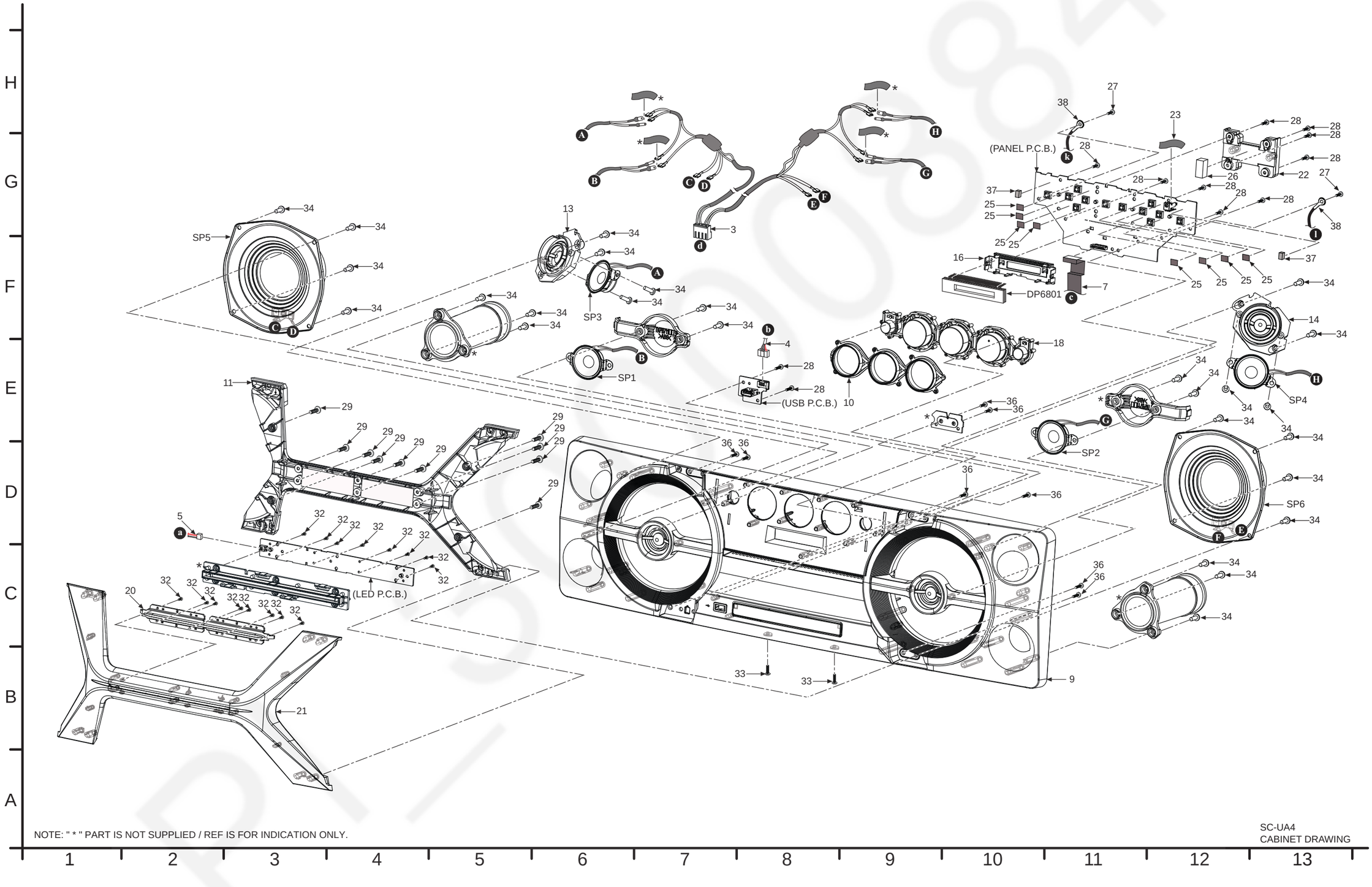
| REF NO. | Q6801 | | | | | | | | Q6816 | | | | | | | | QR6201 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | | | 1 | 2 | 3 | 4 | 5 | 6 | | | E | C | B | |
| PLAY | 15.5 | 0 | 0 | 15.5 | 0 | 15.5 | | | 0 | 3.3 | 0 | 3.3 |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

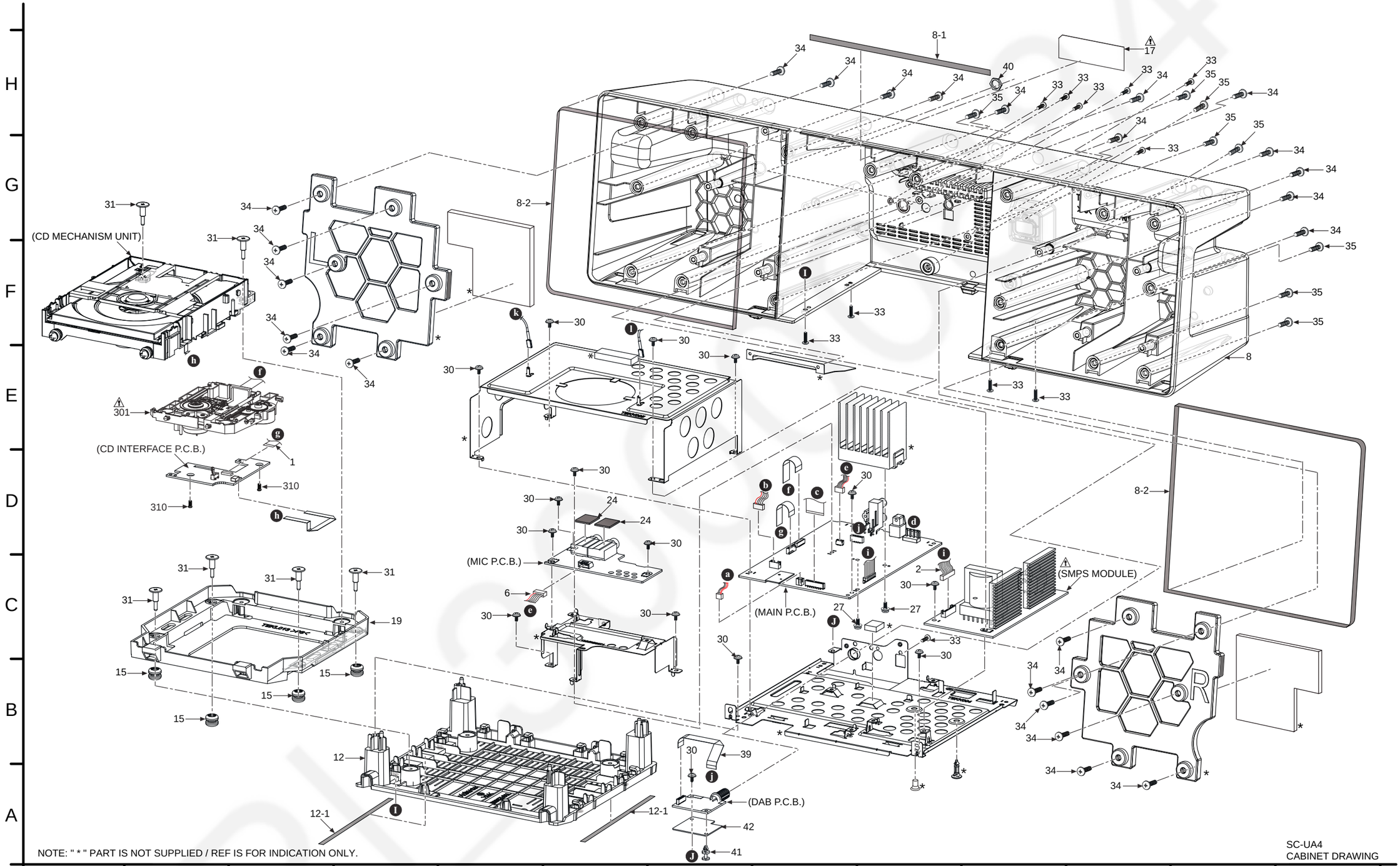
**SC-UA4E PANEL P.C.B.**

# 15 Exploded View and Replacement Parts List

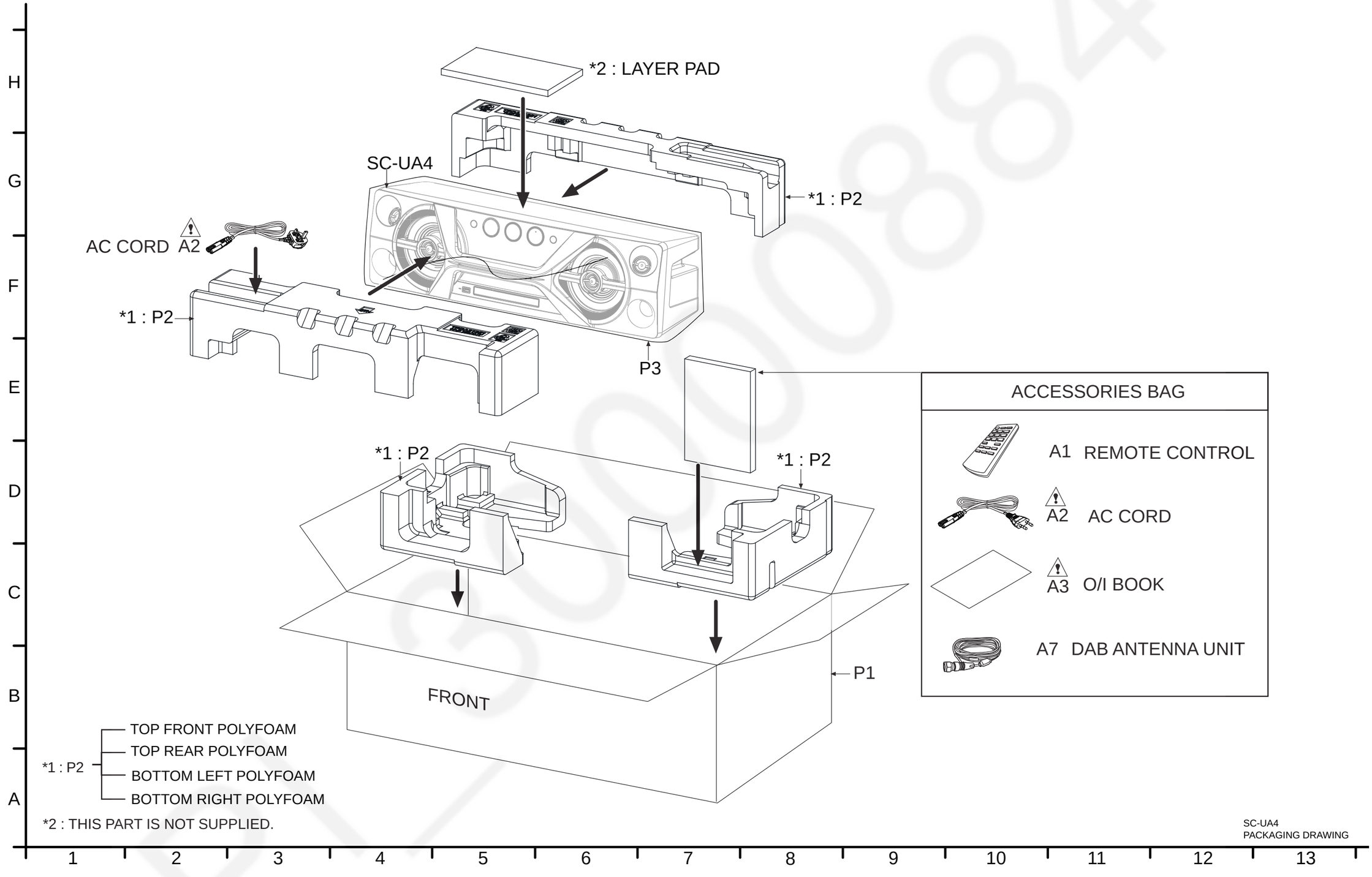
## 15.1. Cabinet Parts Location 1



## 15.2. Cabinet Parts Location 2



## 15.3. Packaging



## 15.4. Mechanical Replacement Part List

**Important Safety Notice**

*Components identified by ⚠ 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 | |
| | 4 | TNMX039 | 4P WIRE (MAIN-USB) | 1 | |
| | 5 | TNMX040 | 2P WIRE (MAIN-LED) | 1 | |
| | 6 | TNMX061 | 5P SHIELDED WIRE (MAIN-MIC) | 1 | |
| | 7 | TZH3QKZ011 | 17P FFC (MAIN-PANEL) | 1 | |
| | 8 | RFKHSCUA4E-K | REAR CABINET ASS'Y | 1 | |
| | 8-1 | RMF0689B | EPT SEALER | 1 | |
| | 8-2 | TMKK688 | EPT SEALER | 2 | |
| | 9 | RFKGSCUA4E-K | FRONT PANEL ASS'Y | 1 | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | |
| ⚠ | 17 | TBMK4907 | NAMEPLATE | 1 | |
| | 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 | |
| | 25 | TMKS037 | EPT | 8 | |
| | 26 | TMKZ962 | HIMELON | 1 | |
| | 27 | RHD26043-1 | SCREW | 4 | |
| | 28 | RHD26046 | SCREW | 11 | |
| | 29 | RHD26056 | SCREW | 10 | |
| | 30 | RHD30111-31 | SCREW | 15 | |
| | 31 | RHDX031008 | SCREW | 6 | |
| | 32 | VHD1224-1A | SCREW | 16 | |
| | 33 | XTB3+10JFJK | SCREW | 13 | |
| | 34 | XTB4+12GFJ | SCREW | 50 | |
| | 35 | XTB4+12GFJK | SCREW | 8 | |
| | 36 | XTB4+16GFJK | SCREW | 8 | |
| | 37 | TMKS038 | PORON | 2 | |
| | 38 | TNMX083 | 1P WIRE (PANEL-TOP SHIELD) | 2 | |
| | 39 | TZH3QKZ013 | 10P FFC (MAIN-DAB) | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 40 | RHN95002 | DAB NUT | 1 | |
| | 41 | RMN1144 | RIVET | 1 | |
| | 42 | TMKS051 | SUPPESSOR SHEET | 1 | |
| | | | | | |
| | | | 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 MATERI-ALS | | |
| | | | | | |
| | P1 | TPCD73201A | PACKING CASE | 1 | |
| | P2 | TPH0083 | POLYFOAM | 1 | |
| | P3 | TPEH875 | MIRAMAT SHEET | 1 | |
| | | | | | |
| | | | ACCESSORIES | | |
| | | | | | |
| | A1 | N2QAYB001149 | REMOTE CONTROL | 1 | |
| ⚠ | A2 | K2CQ2YY00107 | AC CORD | 1 | |
| ⚠ | A2 | K2CT2YY00089 | AC CORD | 1 | |
| ⚠ | A3 | TQBJ2015 | OI (En/Sw/Da/Fi) | 1 | |
| ⚠ | A3 | TQBJ2016 | OI (Ge/Fr/It/Du) | 1 | |
| | A7 | RFA3664 | DAB ANTENNA UNIT | 1 | |

# 15.5. Electrical Replacement Parts List

**Important Safety Notice**

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

**RTL (Retention Time Limited)**

**Note:** The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

**Note:**

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- 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 | TNPA6650 | MAIN P.C.B | 1 | (RTL) |
| | | | | | |
| | | | INTEGRATED CIR-CUITS | | |
| | | | | | |
| | IC52 | VUEALLPT091 | IC | 1 | (E.S.D) |
| | 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 | RFKWFSCUA4EK | 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) |
| | 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 | F1G1H102A830 | 1000pF 50V | 1 | |
| | C61 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C62 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C66 | F1H1H330B052 | 33pF 50V | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | C67 | F1H1H3R0B050 | 3pF 50V | 1 | |
| | C1000 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1001 | F1J1C1060006 | 10uF 16V | 1 | |
| | C1002 | F1J1E106A253 | 10uF 25V | 1 | |
| | C1003 | F1H1H561B052 | 560pF 50V | 1 | |
| | C1004 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1005 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1018 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C1020 | F1K1H475A250 | 4.7uF 50V | 1 | |
| | C1022 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1023 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1024 | F1H1A1050039 | 1uF 10V | 1 | |
| | C1025 | F1H1A1050039 | 1uF 10V | 1 | |
| | C1026 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C1029 | F1H1H392A219 | 3900pF 50V | 1 | |
| | C1031 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | C1032 | F1J1C1060006 | 10uF 16V | 1 | |
| | C1033 | F1H1H103B047 | 0.01uF 50V | 1 | |
| | C1039 | F1J1C1060006 | 10uF 16V | 1 | |
| | C1040 | F1H1A1050039 | 1uF 10V | 1 | |
| | C1042 | F1H1E105A153 | 1uF 25V | 1 | |
| | C1044 | F1J1C1060006 | 10uF 16V | 1 | |
| | C1045 | F1J1A106A043 | 10uF 10V | 1 | |
| | C1047 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | | Qty | Remarks |
|---|---|---|---|---|---|---|
| | C1117 | F1H1H391A219 | 390pF | 50V | 1 | |
| | C1118 | F1K1C2260001 | 22uF | 16V | 1 | |
| | C1501 | F1H1H104B047 | 0.1uF | 50V | 1 | |
| | C1801 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1802 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1803 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1804 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1805 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1808 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1809 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1810 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1811 | F1J1E106A253 | 10uF | 25V | 1 | |
| | C1812 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C1814 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | 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 | |
| | C2043 | F1H1A225A051 | 2.2uF | 10V | 1 | |
| | 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 | |
| | C2050 | F1G1H101A834 | 100pF | 50V | 1 | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | | Qty | Remarks |
|---|---|---|---|---|---|---|
| | 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 | |
| | C5024 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5025 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5026 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5027 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5028 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5029 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5030 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5031 | F1H1H101B052 | 100pF | 50V | 1 | |
| | C5032 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C5033 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C6005 | F1J1E106A253 | 10uF | 25V | 1 | |
| | C6006 | F0A1H225A095 | 2.2uF | 50V | 1 | |
| | C6007 | F0A1H225A095 | 2.2uF | 50V | 1 | |
| | C6008 | F0A1H225A095 | 2.2uF | 50V | 1 | |
| | C6009 | F0A1H225A095 | 2.2uF | 50V | 1 | |
| | C6011 | F1G1H102A830 | 1000pF | 50V | 1 | |
| | C6012 | F1G1H102A830 | 1000pF | 50V | 1 | |
| | C6013 | F1G1H102A830 | 1000pF | 50V | 1 | |
| | C6014 | F1G1H102A830 | 1000pF | 50V | 1 | |
| | 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 | |
| | C6085 | D0GBR00J0004 | 0 | 1/10W | 1 | |
| | C6086 | F1H1H102B047 | 1000pF | 50V | 1 | |
| | C6099 | F1H1H681B052 | 680pF | 50V | 1 | |
| | C6100 | F1H1H681B052 | 680pF | 50V | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | C6108 | F1H1A105A113 | 1uF 10V | 1 | |
| | C6109 | F1H1A105A113 | 1uF 10V | 1 | |
| | C6111 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6112 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6121 | F1H1H102B047 | 1000pF 50V | 1 | |
| | C6122 | F1H1H101B052 | 100pF 50V | 1 | |
| | C6123 | F1H1H220B052 | 22pF 50V | 1 | |
| | C6124 | F1H1H220B052 | 22pF 50V | 1 | |
| | C6125 | F1H1H220B052 | 22pF 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 | |
| | | | | | |
| | | | CONNECTORS | | |
| | | | | | |
| | CN1002 | K1YA09000001 | 9P WIRE HOLDER | 1 | |
| | CN3501 | K1KA04A00629 | 4P CONNECTOR | 1 | |
| | CN6100 | K1MN10A00011 | 10P CONNECTOR | 1 | |
| | P1503 | K1KA02AA0193 | 2P CONNECTOR | 1 | |
| | P1801 | K1MN17A00040 | 17P CONNECTOR | 1 | |
| | P1802 | K1KA05AA0051 | 5P CONNECTOR | 1 | |
| | 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 | | |
| | | | | | |
| | JK3003 | B3RAB0000118 | JK | 1 | |
| | JK6002 | K2HA2YYA0009 | JK | 1 | |
| | | | | | |
| | | | INDUCTORS | | |
| | | | | | |
| | L51 | G1CR18JA0020 | INDUCTOR | 1 | |
| | L1001 | G1C330MA0426 | INDUCTOR | 1 | |
| | L1103 | G1C100MA0226 | INDUCTOR | 1 | |
| | L6000 | G0A100H00032 | INDUCTOR | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | L6001 | G0A100H00032 | INDUCTOR | 1 | |
| | L6002 | G0A100H00032 | INDUCTOR | 1 | |
| | L6003 | G0A100H00032 | 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 | |
| | LB1802 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1803 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1804 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1805 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1806 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1807 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1808 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1809 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1810 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1811 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1812 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB1818 | G1C100KA0101 | INDUCTOR | 1 | |
| | 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 | |
| | LB5007 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5008 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5009 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5010 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5011 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5012 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5013 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5014 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5015 | J0JYC0000656 | INDUCTOR | 1 | |
| | LB5016 | J0JBC0000010 | INDUCTOR | 1 | |
| | LB6001 | J0JKB0000020 | INDUCTOR | 1 | |
| | LB6002 | J0JKB0000020 | INDUCTOR | 1 | |
| | LB6100 | J0JGC0000063 | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | | | | | |
| | | | TRANSISTORS | | |
| | | | | | |
| | Q1000 | B1AAJC000019 | TRANSISTOR | 1 | |
| | Q1008 | B1ADCE000012 | TRANSISTOR | 1 | |
| | Q1011 | MTM761230LBF | TRANSISTOR | 1 | |
| | Q2001 | B1ABCF000176 | TRANSISTOR | 1 | |
| | Q5001 | B1ADCF000001 | 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 | |
| | R1114 | D0GB100JA065 | 10 1/10W | 1 | |
| | R1115 | D0GB222JA065 | 2.2K 1/10W | 1 | |
| | R1801 | J0JYC0000656 | INDUCTOR | 1 | |
| | R1802 | J0JYC0000656 | INDUCTOR | 1 | |
| | R1812 | J0JYC0000656 | INDUCTOR | 1 | |
| | 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 | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | |
| | R2313 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R2316 | D0GBR00J0004 | 0 1/10W | 1 | |
| | 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 | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | |
| | R6099 | F1H1H102B047 | 1000pF 50V | 1 | |
| | 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 | |
| | R6201 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6202 | D0GBR00J0004 | 0 1/10W | 1 | |
| | R6204 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6205 | D0GB101JA065 | 100 1/10W | 1 | |
| | R6206 | D0GB101JA065 | 100 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 | |
| | | | | | |
| | | | 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 | |
| | | | | | |
| | | | ESD SUPRESSOR | | |
| | | | | | |
| | VA51 | EZAEG2A50AX | ESD SUPRESSOR | 1 | |
| | | | | | |
| | | | OSCILLATORS | | |
| | | | | | |
| | X2001 | H0J169500045 | OSCILLATOR | 1 | |
| | X2002 | H0A327200191 | OSCILLATOR | 1 | |
| | X6500 | H0J245500110 | OSCILLATOR | 1 | |
| | | | | | |
| | | | PRINTED CIRCUIT BOARDS | | |
| | | | | | |
| | PCB2 | TNPA6654 | PANEL P.C.B | 1 | (RTL) |
| | | | | | |
| | | | CAPACITORS | | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | | | | | |
| | 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 | |
| | | | | | |
| | | | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | |
| | 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 | TNPA6655 | MIC P.C.B | 1 | (RTL) |
| | | | | | |
| | | | INTEGRATED CIR-CUITS | | |
| | | | | | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | | |
| | | | | | |
| | 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 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | 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 | TNPA6656 | USB P.C.B | 1 | (RTL) |
| | | | | | |
| | | | CAPACITORS | | |
| | | | | | |
| | C6401 | F1H1H104B047 | 0.1uF 50V | 1 | |
| | | | | | |
| | | | CONNECTORS | | |
| | | | | | |
| | 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 | TNPA6657 | LED P.C.B | 1 | (RTL) |
| | | | | | |
| | | | 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 | |
| | | | | | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | | | PRINTED CIRCUIT BOARDS | | |
| | | | | | |
| | PCB8 | REP5310A | DAB P.C.B | 1 | (RTL) |
| | | | | | |
| | | | INTEGRATED CIRCUITS | | |
| | | | | | |
| | IC1 | RFKWFCRS32EB | IC | 1 | (E.S.D) |
| | IC2 | C1CB00004533 | IC | 1 | (E.S.D) |
| | | | | | |
| | | | CAPACITORS | | |
| | | | | | |
| | C2 | F1G1H560A834 | 56pF 50V | 1 | |
| | C3 | F1G1H330A834 | 33pF 50V | 1 | |
| | C4 | F1G1H560A834 | 56pF 50V | 1 | |
| | C8 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C9 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C10 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C11 | F1H0J4750004 | 4.7uF 6.3V | 1 | |
| | C12 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C13 | F1H0J4750004 | 4.7uF 6.3V | 1 | |
| | C14 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C16 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C17 | F1H0J4750004 | 4.7uF 6.3V | 1 | |
| | C18 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C19 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C20 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C21 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C22 | F1G1A1050004 | 1uF 10V | 1 | |
| | C23 | F1G1H223A739 | 0.022uF 50V | 1 | |
| | C24 | F1H1H223B047 | 0.022uF 50V | 1 | |
| | C25 | F1G1A1050004 | 1uF 10V | 1 | |
| | C27 | F1G1A1050004 | 1uF 10V | 1 | |
| | C29 | F1G1C103A146 | 0.01uF 16V | 1 | |
| | C32 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C33 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C37 | F1G1C103A146 | 0.01uF 16V | 1 | |
| | C38 | F1G1A1040006 | 0.1uF 10V | 1 | |
| | C41 | F1G1H471A541 | 470pF 50V | 1 | |
| | C42 | F1G1H471A541 | 470pF 50V | 1 | |
| | C43 | F1G1A1050004 | 1uF 10V | 1 | |
| | C47 | F1G1A1050004 | 1uF 10V | 1 | |
| | C48 | F1G1H102A830 | 1000pF 50V | 1 | |
| | C49 | F1G1H223A739 | 0.022uF 50V | 1 | |
| | C50 | F1G1H3R3A784 | 3.3pF 50V | 1 | |
| | | | | | |
| | | | CONNECTORS | | |
| | | | | | |
| | CN1 | K1MN10AA0046 | 10P CONNECTOR | 1 | |
| | | | | | |
| | | | JACKS | | |
| | | | | | |
| | JK1 | K4AK01Z00002 | JK | 1 | |
| | | | | | |
| | | | INDUCTORS | | |
| | | | | | |
| | L2 | J0JYC0000051 | INDUCTOR | 1 | |
| | L3 | G1C68NJA0037 | INDUCTOR | 1 | |
| | L4 | G1CR12GA0007 | INDUCTOR | 1 | |
| | L5 | G1CR22GA0007 | INDUCTOR | 1 | |
| | LB7 | J0JYC0000051 | INDUCTOR | 1 | |
| | LB8 | J0JYC0000051 | INDUCTOR | 1 | |
| | | | | | |
| | | | RESISTORS | | |
| | | | | | |
| | R4 | D0GA330JA023 | 33 1/16W | 1 | |
| | R5 | D0GA330JA023 | 33 1/16W | 1 | |
| | R6 | D0GA330JA023 | 33 1/16W | 1 | |
| | R13 | D0GA101JA023 | 100 1/16W | 1 | |
| | R15 | D0GA103JA023 | 10K 1/16W | 1 | |
| | R18 | D0GA201JA023 | 200 1/16W | 1 | |
| | R19 | D0GA101JA023 | 100 1/16W | 1 | |
| | R20 | D0GA101JA023 | 100 1/16W | 1 | |

| Safety | Ref. No. | Part No. | Part Name & Description | Qty | Remarks |
|---|---|---|---|---|---|
| | R21 | D0GAR00J0008 | 0 1/16W | 1 | |
| | R22 | D0GAR00J0008 | 0 1/16W | 1 | |
| | R23 | D0GA100JA023 | 10 1/16W | 1 | |
| | R27 | D0GA100JA023 | 10 1/16W | 1 | |
| | R34 | D0GAR00J0008 | 0 1/16W | 1 | |
| | R41 | D0GA104JA023 | 100K 1/16W | 1 | |
| | R46 | D0GA101JA023 | 100 1/16W | 1 | |
| | R47 | D0GA682JA023 | 6.8K 1/16W | 1 | |
| | R48 | D0GA224JA023 | 220K 1/16W | 1 | |
| | R51 | D0GAR00J0008 | 0 1/16W | 1 | |
| | R52 | D0GA104JA023 | 100K 1/16W | 1 | |
| | | | | | |
| | | | OSCILLATOR | | |
| | | | | | |
| | X1 | H0J384500002 | OSCILLATOR | 1 | |

MMH1706